Probing distant clusters - a pre-SALT photometric study of intermediate redshift galaxy clusters

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Abstract

Prior work by the UCT Extragalactic Group has focused on mapping local large scale structures and investigating their effect on large scale motions, with particular interest in clusters obscured by the Zone of Avoidance. With the imminent completion of the South African Large Telescope (SALT) in early 2005, however, it is possible to shift interest to much larger redshifts. Due to the field of view and imaging power of SALT, it will be most effective for investigating clusters and superclusters of galaxies at redshifts of $z \approx 0.5$. With this in mind, it was necessary to identify target galaxies and galaxy clusters to enable follow-up photometry and spectroscopy with SALT when it becomes available. The purpose of this dissertation is to produce catalogues of target galaxies with positions and corresponding J, H and K_s photometry with the view of follow-up work with SALT. To this end, two weeks of deep near-infrared photometry was obtained on the Japanese 1.4-m InfraRed Survey Facility (IRSF) looking at fields selected on the basis of quasars and extended X-ray sources. This has yielded clusters of galaxies at suspected intermediate ($z \approx 0.5$) redshifts. Determining the metallicities of galaxies at these redshifts using SALT will enable comparisons with local galaxies in order to better understand their nature. Further work will also enable the investigation of evolutionary effects, which at these redshifts provides constraints on cosmological scenarios.

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Chapter 1

Introduction

The work of the University of Cape Town extragalactic group has thus far focused on mapping local large-scale structures including the Zone of Avoidance. The imminent completion of the South African Large Telescope (SALT) at the South African Astronomical Observatory (SAAO) site of Sutherland, provides a huge scope for extragalactic astronomy. This 10-metre class telescope will allow observers to probe far deeper into the universe and investigate areas of interest that have hitherto been inaccessible from South Africa. For extragalactic astronomy in particular, SALT will be most effective at intermediate redshifts ($z \approx 0.5 - 0.6$) and hence the focus of this work is to obtain surface photometry of suspected groups and clusters of galaxies in this redshift range to allow for follow-up spectroscopy and study, once SALT comes online.

Finding real bound systems in optical surveys is relatively easy for $z < 0.3$, but gets more and more difficult at higher redshifts. This is due to the fact that the foreground galaxy population starts to obscure the location of overdensities associated with clusters (Rosati, Borgani & Norman 2002). Due to the fact that the cores of galaxy clusters are generally dominated by early-type galaxies (Rosati, Borgani & Norman 2002), optical studies in this redshift range are hampered by large K-corrections. K-corrections are the terms that compensate for the shift of the peak of the spectral energy distribution that occurs when comparing objects at different rest-frame wavelengths, due to the effect of redshift. This is vital when converting from apparent to absolute magnitudes. The large redshifts of distant clusters move optical passbands into the blue and near-UV region of the cluster restframe which then causes a bias towards starforming galaxies (Stanford, Eisenhardt & Dickinson 1995). Since infrared photometry will sample the peak of the Spectral Energy Distribution (SED) of normal galaxies, the K-corrections are small in the NIR (near infrared) passbands (see Table 1.1 for a comparison) and thus provide a very natural way to study intermediate redshift galaxies and clusters. Table 1.2 lists a further correction that factors in the effect of galaxy evolution and also illustrates the advantage of working in the NIR. Hence in order to best explore this region of interest, J, H and K_s

Table 1.1: Comparison of K corrections in different bands for z=0.60 from (Poggianti 1997)

Galaxy type	E	E2	Sa	Sc
V band	1.923	1.914	1.588	1.019
R band	1.016	1.012	0.829	0.492
I band	0.474	0.475	0.327	0.159
J band	0.064	0.069	-0.062	-0.140
H band	-0.111	-0.106	-0.224	-0.292
K band	-0.267	-0.265	-0.334	-0.375

Table 1.2: Comparison of Evolution Corrections in different bands for z=0.60 from (Poggianti 1997)

Galaxy type	E	E2	Sa	Sc
V band	-0.785	-1.015	-1.492	-0.888
R band	-0.679	-0.818	-1.181	-0.751
I band	-0.620	-0.708	-0.945	-0.596
J band	-0.577	-0.627	-0.792	-0.464
H band	-0.559	-0.585	-0.737	-0.415
K band	-0.549	-0.552	-0.694	-0.378

imagery was obtained on the Infrared Survey Facility (IRSF) located at Sutherland.

Another advantage of using NIR filters is that for observations where $z < 1$, they are less affected by absorption due to dust thus minimising the effects of reddening and extinction (Stanford, Eisenhardt & Dickinson 1995).

NIR filters are also better tracers of stellar mass compared to optical filters as they are sensitive to the luminosities and colours of the old stellar population which dominates the stellar mass (Stanford, Eisenhardt & Dickinson 1995; Andreon 2000), whereas the optical filters would preferentially sample star-forming galaxies. Due to the fact that the bias towards recent and ongoing star formation is minimised, NIR imagery is better than optical imagery as the spectral similarity of spiral and elliptical galaxies ensures a far more representative reflection of the morphological composition of clusters at intermediate to distant redshifts (Stanford, Eisenhardt & Dickinson 1995).

The advent of larger telescopes and improved imaging techniques has ushered in a new era of observational possibilities. Lilly (1987) obtained infrared photometry of 53 galaxies in 5 clusters in a range $0.38 < z < 0.58$ using a InSb photometer on the United Kingdom Infra-Red Telescope (UKIRT). The study of a galaxy cluster at z = 0.374 by Aragón-

Salamanca, Ellis & Sharples (1991) ushered in the era of the infrared array detectors.

This redshift region provides a niche in the study of galaxy clusters and is currently relatively uncharted territory compared to the extensive work done on clusters with $z < 0.1$. Intermediate redshift clusters are particularly useful in terms of probing cosmological scenarios. Hierarchical cluster models predict that the stellar populations of field elliptical(E) and lenticular(S0) galaxies will be younger compared to their cluster counterparts (Kauffmann 1996). This effect is enhanced at intermediate redshifts and is therefore easier to observe compared to the local universe (Treu et al. 2001).

In terms of investigating galaxy evolution, the evolution of clustering at higher redshifts ($z > 0.1$) is more sensitive to differences in cosmological scenarios (Peebles, Daly & Juskiewicz 1989), and for this reason it is necessary to include intermediate redshift clusters in surveys trying to constrain evolution parameters (eg. Postman et al. 2002 and Stanford, Eisenhardt & Dickinson 1995).

When studying galaxy clusters, we not only learn more about these systems; we learn more about some of the fundamental questions that face modern astronomy. Studying them at intermediate redshifts provides us with an important piece of the puzzle.

Chapter 2

Galaxy Clusters as cosmological probes

How do galaxy clusters make an impact on research in astronomy? Galaxy clusters encompass a wide range of research interests and have application in fields ranging from large-scale structures to determining cosmological parameters. What makes this a particularly vibrant research area is that as observational methods improve, more of the observable universe becomes accessible and galaxy clusters provide a direct means of determining some of the most fundamental physics at work in the universe.

Clusters were initially used as beacons of the mass distribution in the universe and by mapping them large-scale structure began to appear. Pioneering work by Mihkel Joeveer and Jaan Einasto (Joeveer & Einasto 1978) led to the realisation that the universe was not smooth and uniform, but rather a clumpy distribution of galaxies with walls and voids. This altered forever our understanding of the beginning of our universe.

Further research showed that clusters of galaxies had to be dominated by the mysterious "dark matter". Originally made reference to by Zwicky (1933), it became more and more apparent that dark matter not only had to exist, but that it was more abundant in the universe than baryons (see Rees 2004). Now clusters became the laboratories of the universe. Because they are the most massive collapsed structures in the universe they provide a unique way of studying the underlying physics, as well as testing the theories of cosmology. Through this research it is possible to discard, modify and create theories to better describe the astrophysics at work in our universe.

Hence the fact remains that the largest dynamically bound systems in the universe will always be at the forefront of research and will continue to make a relevant and vital contribution in astronomy.

2.1 Background

Charles Messier was probably the first person to make reference to a cluster of galaxies in *Connaissance des Temps for 1784* (published in 1781). This contained the final version of his catalogue *Catalogues des nébuleuses et des amas d'étoiles que l'on découvre parmi les étoiles fixes, sur l'horizon de Paris* wherein he recorded the positions of nebulae (the Latin word for cloud) in order that they not get confused with comets. His catalogue contained the positions of 103 nebulae and Messier noticed the concentration of nebulae in the constellation of Virgo. Next to his entry for M91 he noted the association of 13 of the nebulae, but he actually recorded 16 members of the Virgo cluster in his catalogue. Pierre Méchain was a contemporary of Messier, also making nebulae observations. Any observations that Méchain made, Messier would check and then record in the catalogue and number it in the order he observed it. Some of the Virgo nebulae had in fact been discovered by Méchain. It seems that Méchain first noticed the concentration of nebulae in Virgo, passed it on to Messier who then observed and recorded it (Mallas & Kreimer 1978).

Observations of nebulae were continued by William Herschel who published, in total, the positions of 2500 nebulae (Herschel 1811). His son John Herschel continued this work, which resulted in catalogues containing thousands of nebulae. During his work on the *General Catalogue of Nebulae and Clusters of Stars* (Herschel 1864), John Hershel noticed the great concentration of nebulae in Virgo. He became the first person to describe what we now know as our Local Supercluster. The Herschels' work was revised and updated by Dreyer and published as *A New General Catalogue of Nebulae and Clusters of Stars* (NGC) (Dreyer 1888) and this became the standard reference work in the field and is still in use to this day.

Observations of nebulae continued and gave rise to much heated debate. The start of the 20th century was dominated by the use of photographic plates to investigate the nature of nebulae. Were they stellar systems separate from our galaxy or solar systems forming within the Milky Way?

In the 1920's Edwin Hubble established that the Andromeda nebula was indeed extra-galactic and with that one issue was resolved, but another replaced it. On the one hand there was Hubble, who was aware of groups and clusters of galaxies, but maintained that "the tendency to cluster appears to operate on a limited scale. No organisations on a scale larger than the great clusters, and no clusters with as many as a thousand members are definitely known" (Hubble 1936; see also discussion in Fairall 1998).

Then on the other hand there was Harlow Shapley using the 24-inch Bruce telescope at Boyden Observatory. Shapley introduced the idea of "metagalactic clouds" which were much larger than clusters (Shapley 1933; Biviano 2000).

Other work by Carpenter (1938), Neyman & Scott (1952) and Peebles (1974) further supported Shapley's ideas (Biviano 2000). The evidence of clustering was further sup-

ported by Humason, Mayall, & Sandage (1956) and so the existence of structure consisting of clusters became accepted and Large Scale Structure research gained impetus.

In the meantime the need for comprehensive catalogues of galaxy clusters had become apparent. The first of its kind came in the form of George Abell's "The Distribution of Rich Clusters of Galaxies" which was a paper published in 1958 and consisted of 2712 clusters (Abell 1958). This catalogue was extended into an all-sky (high latitude) cluster catalogue by Abell, Corwin and Olowin (1989) that contained 4073 rich clusters and included the clusters from Abell's original catalogue. Zwicky's *Catalogue of Galaxies and Clusters of Galaxies* was published in its final form in 1968 (Zwicky et al. 1961-68) and a third catalogue of rich clusters was compiled by Shectman (1985) from the galaxy counts of Shane and Wirtanen (1967).

Until the pioneering work of Abell, the data for clusters had been in a state of disarray. Zwicky and Abell's catalogues enabled meaningful studies of clusters. Extragalactic research was revolutionised and advances in cluster studies can be directly attributed to these works.

The study of galaxy clusters is essentially at the mercy of technology. Bigger telescopes, more telescope time and multi-wavelength capabilities are needed. The need for surveys to locate and probe clusters has been recognised by the astronomical community and in recent years there have been several collaborations that have resulted in great advances in the field. Some examples of surveys that have revolutionised the field are, in the optical bands, the SDSS (Sloan Digital Sky Survey), 2dF and 6dF galaxy redshift surveys and in the infrared, 2MASS (Two Micron All Sky Survey) and IRAS (Infrared Astronomical Satellite). In the X-ray regime Chandra, XMM-Newton, EMSS (Einstein Observatory Medium Sensitivity Survey) and the RASS (Rosat All-Sky Survey) have made a particularly valuable contribution to galaxy cluster studies as clusters are strong X-ray emitters.

2.2 Clusters as tracers of large-scale structure

The science that is done with clusters, as already mentioned, is diverse. Initially the main focus of galaxy cluster studies was to map the large-scale structure of the universe. The 'Cosmological Principle' on which all cosmological models are based, states that the Universe is homogeneous and isotropic. The question was on what scale it became so, given that the Local Universe was far from homogeneous. Remarkably, the inhomogenieties in our universe seemed to continue out to enormous scales. Essentially the homogeniety of the universe (or lack of it) provides us with a means of theorising about the initial conditions of our universe and what physical processes would lead to the formation of the structures we see. So, learning more about our universe spatially provides insight into the cosmology at work.

Initially the study of structure was done by observing as many galaxies as possible

to determine their distribution (Bahcall 1988 and references within). Alternatively rich clusters of galaxies could be used as density peaks in the distribution of galaxies and so map out the underlying structure. This has been shown to be a reliable and worthwhile method (Bahcall 1988). The catalogues of Abell, Zwicky and Shectman could be used to investigate large-scale structure qualitatively and quantitatively. To make the distribution of galaxies meaningful, angular, redshift and spatial correlation functions were used to quantify the over- and underdensities that were found. A combination of Zwicky and Abell catalogues were studied by Postman, Geller & Huchra (1986), whilst the Abell clusters were and are still widely used in studies of rich cluster galaxies (eg. Bahcall & Soniera 1983; Postman, Huchra & Geller 1992), superclusters (eg. Bahcall & Soniera 1984) and deep Abell cluster studies (eg. Huchra et al. 1990). In recent years this work has been broadened by surveys such as the APM galaxy survey (Croft et al. 1997) and the Sloan Digital Sky Survey (Bahcall et al. 2003).

Yet the measurements of the Cosmic Microwave Background (CMB) showed remarkable isotropy compared to the elaborate structure that galaxy and cluster surveys were finding. It was only with the launch of COBE, the Cosmic Background Explorer satellite in November 1989, that measurements became sensitive enough to pick up the temperature fluctuations in the CMB (Smoot et al. 1992), and thus the seeds of large-scale structure were detected.

We are currently in the era of WMAP (Wilkinson Microwave Anisotropy Probe), which was launched in 2001 and with its improved resolution is placing significant bounds on cosmological parameters with results suggesting that the universe we live in is flat (Bennet et al. 2003).

2.3 Probing the evolution of structure with clusters

Galaxy clusters can be used to trace the evolution of the universe with time. As we look deeper, we see objects as they were in the past and we are in a sense looking at the fossil record of the universe. The CMB can be thought of as a photograph of the universe as a baby and by studying clusters at deep and intermediate redshifts we can follow the growth of our universe and analyse the changes that have taken place. This will improve our understanding of the cosmological forces at work, the forces that dominate and how the structures we observe locally form.

Regarding theories for galaxy evolution there are two main models that are currently in contention. On the one hand we have hierarchical models that predict that massive elliptical galaxies formed due to mergers at moderate redshifts and would therefore not be found at high redshift (White & Rees 1978; Kauffmann, White & Guiderdoni 1993). The alternative is a monolithic collapse scenario which had massive elliptical galaxies forming at high redshift via rapid star formation which is then followed by Pure Luminosity Evolution

(PLE) of the stellar population (Eggen, Lynden-Bell & Sandage 1962; Larson 1975). The study of galaxy clusters plays a vital role in testing these scenarios (Cimatti 2002; Schade et al. 1999 and references within).

Massive field galaxies selected in the K-band are particularly useful in testing these models (Cimatti 2002). By using the fact that near infrared light is a good tracer of galaxy mass (Gavazzi, Pierini & Boselli 1996; Postman et al. 2002), deep K-band imaging allows one to locate massive galaxies at high redshift (Yamada et al. 1997). Follow-up spectroscopy can then be done to determine redshifts and investigate the nature of these Extremely Red Objects (Cimatti 2002; Gilmore 2004; Cowie et al. 1996). The clustering of Extrememly Red Objects is also used to test the evolution models (Daddi et al. 2002).

In a hierarchical cluster formalism, clusters form due to gravitational collapse as a result of fluctuations in the primordial density field and their number density is determined by which cosmological scenario is at work in the universe (Press & Schechter 1974; Kofman, Gnedin & Bahcall 1993). Cosmological models predict the number density of clusters at various redshifts for a given cluster mass. Hence by investigating the mass function of clusters of galaxies (eg. Bahcall & Cen 1993) it is possible to measure the cosmological density parameter (Ω_0) and the amplitude of mass density fluctuations (σ_8) using cluster evolution (eg. White, Efstathiou & Frenk 1993; Bahcall, Fan & Cen 1997; Bahcall & Fan 1998).

At the core of cluster evolution studies is the study of the X-ray properties of galaxy clusters (Rosati, Borgani & Norman 2002). The intracluster medium is a hot gas that permeates the cluster and produces brehmsstralung radiation that is detectable at X-ray wavelengths. Since the X-ray emitting gas acts as a trace for the cluster gravitational potential, the luminosity is an indicator of the depth of the cluster potential.

One advantage of working in the X-rays, is that they do not suffer from the same selection effects as optical detections and are less prone to line of sight contamination from other sources (Rosati et al. 1995). In the X-ray regime one can define flux-limited samples that have known selection functions (using the X-ray luminosity) and this enables the detection of galaxy clusters over a wide range of redshift (Rosati, Borgani & Norman 2002). Hence we obtain meaningful information about the large scale structures that are present. The relationship between X-ray luminosity and total cluster mass using intracluster gas density profiles and gas temperatures (Henry & Arnaud 1991; Reiprich & Böhringer 2002), makes it possible to determine the mass of clusters and hence build up a mass function (Forman & Jones 1982 and references within). Alternative ways of determining the mass of a cluster of galaxies (and hence obtain a mass function relationship) is to use gravitational lensing or the velocity dispersion of galaxies within a cluster. Weak gravitational lensing is the most reliable method for determining the total mass distribution over a wide scale of distances (Mellier 1999), but suffers from projection effects and requires a high density background (Ellis 2001). Using the Sunyaev-Zeldovich effect as a survey tool is a method

that shows a lot of promise for the future as techniques improve (Ellis 2001).

All three methods of obtaining the mass of a cluster yield consistent results indicating the reliability of the values obtained (Bahcall 1999).

By studying the evolution of the X-ray temperatures of clusters, it is therefore possible to determine the cosmological parameters Ω_0 and σ_8 (eg. Henry 2000; Eke et al. 1998; Eke, Cole & Frenk 1996). Other work (eg. Donahue & Voit 1999) makes use of the temperature-redshift distribution of galaxy clusters to constrain Ω_m (the mean density of matter in the universe) by utilising the fact that the evolution of the mass function is sensitive to the value of Ω_m. Another means to determine Ω_m using galaxy clusters is to determine the total mass and baryonic mass in a cluster and use it as representative of the rest of the universe (Bahcall 1999; Schindler 2003). Cluster studies can also be used to determine the large-scale peculiar velocity field of underlying matter and in this way constrain cosmological parameters (Gramann et al. 1995). Hence by using clusters it is possible to constrain cosmological parameters and it is thus an important means by which we can discern the validity of some theories in cosmology.

An important contribution to galaxy cluster studies is made by HI surveys. When used in conjunction with optical, infrared and X-ray studies, it is a very powerful tool with which to explore the evolution of clusters (Haynes, Giovanelli & Chincarini 1984). The advantages of using HI are that one can survey a large area, measure source position and velocity, and it is unaffected by dust extinction.

2.4 Constraining Cosmological Parameters

The importance of clusters is also linked to the distribution of dark versus baryonic matter in the universe. Fritz Zwicky was the first to realise that the galaxies within a cluster had a velocity dispersion that was too large when considering the visible mass that was present (Zwicky 1933). In order to explain this 'missing mass', the concept of dark matter was introduced (see Bahcall 1977; Rees 2004). The presence of dark matter was also made evident by considering the rotation curves of spiral galaxies, the high-velocity dispersion in elliptical galaxies and the presence of extended halo's of X-ray gas in ellipticals (Bahcall, Lubin & Dorman 1995 and references therein). Clusters make it possible to study whether dark matter resides mostly in huge halos surrounding individual galaxies, or if the amount of dark matter present increases with scale (Bahcall, Lubin & Dorman 1995).

Navarro, Frenk & White (1997) (hereafter NFW) used high resolution N-body simulations to study the density profiles of dark matter halos for a hierarchical cluster scenario and from this predicted a universal dark matter profile which falls off as $\rho \propto r^{-3}$. When looking for observational evidence for the theory, there is the complication that, in the 10-100 kpc scale, baryons dominate (Smith et al. 2001). By contrast, on scales of 100 kpc to several megaparsecs (i.e. in the realm of massive clusters) the theoretical profiles will

be relatively immune to collapse because of the lack of baryons and we find that the total mass profile is mostly due to dark matter. This means that intermediate redshift clusters are ideal laboratories for testing dark matter theoretical predictions (Kneib et al. 2003).

Current work is also being done to combine the dark matter profile determined from weak lensing on large scales, with strong lensing values and to use cluster cores to test NFW predictions over a physical scale of three orders of magnitude. We can then also compare the dark matter profile obtained with that found for clusters of galaxies in order to establish the mass-to-light ratio on large scales (Kneib et al. 2003) and test if baryons are biased tracers of mass.

By exploring the relationship between the light and mass in galaxy clusters and determining how this relationship varies when cosmological parameters are varied, we can place constraints on σ_8 and the nature of dark matter (Crone, Evrard & Richstone 1994). In order to do this, it is necessary to have accurate surface density measurements. This can be done by means of gravitational lensing of clusters which is a direct method of obtaining the cluster mass (Fischer & Tyson 1997), or by using the galaxy number density profile to trace the average cluster mass profile (Carlberg et al. 1997).

2.5 Probing the formation and evolution of galaxies

By means of clusters we can investigate the formation and evolution of galaxies over time. By looking at the interactions between galaxies and clusters, as well as between galaxies themselves, it is possible to study the processes that govern the formation of various morphological types of galaxies, that influence the star-forming activity within galaxies and that determine the structure and luminosity of galaxies within the cluster (Dressler 1984 and references within). This is done by determining the velocity dispersions, colour distributions, colour-magnitude and colour-colour diagrams within clusters as well as by looking for correlations of spectral or colour properties with surface brightness, axial ratio or profile types (Dressler & Gunn 1992).

Butcher & Oemler (1978) investigated the evolution of galaxies within clusters by studying two clusters at redshifts of 0.39 and 0.46. They discovered that the clusters contained a significant fraction of "blue" galaxies mixed in with the expected population of early-type E and S0 galaxies. Further work showed evidence for strong evolution of galaxy cluster populations as a function of redshift (Butcher & Oemler 1984). This "Butcher-Oemler effect" has motivated many research programs in order to investigate this recent evolution.

Observational studies of galaxy clusters are crucial to understanding galaxy morphology as certain classes of galaxies only reside in clusters. The high density environment of a galaxy cluster is also conducive to accelerating evolutionary processes and since clusters can be found relatively easily at high redshifts, it enables the study of galaxy evolution directly (Moore 2003).

Perhaps one of the greatest questions to be addressed is the concern of linking data at different redshifts and drawing conclusions based on the assumption that they are fundamentally the same (Ellis 2001). Nonetheless the study of galaxy clusters provides important insights and has a vital contribution to make in modern astronomy.

To this end the UCT Astronomy Depertment has begun a long term project with the view of studying galaxy evolution by investigating superclusters at intermediate redshift. Such a project is made possible due to the imminent availability of SALT to the South African astronomical community. This dissertation represents the first step in this project.

The purpose of this dissertation is to investigate possible locations of superclusters and determine the feasibility of using these areas for observations with SALT. As part of this work, three target regions were chosen (see Section 3.1 of this dissertation) and investigated (see Section 4 of this dissertaion) in order to determine whether there is an overdensity of galaxies present and how rich it appears. By determining the positions and magnitudes of the galaxies in these chosen regions and comparing them with a control field, it is possible to assess which are appropriate for further observations and which do not indicate any significant structure. Regions that show galaxy concentration and structure indicating the possible presence of a supercluster, will then be used for observations with SALT. This will involve obtaining accurate photometry with SALT (Salticam) which will enable high precision positions of target galaxies, for follow-up spectroscopy with PFIS.

Chapter 3

Observations and Reductions

3.1 Target Selection

3.1.1 Background

Deciding on target regions, to search for intermediate redshift clusters, can be done in a number of ways. There are a variety of sources that may act as signposts indicating where galaxy clusters may lie. We chose quasi-stellar objects (QSOs) and extended X-ray sources as possible markers for intermediate redshift galaxy clusters and observed them in the infrared in order to gauge their suitability for future work.

Some of the early work on the relationship between quasars and their environments was done by Gunn (1971) and Oemler, Gunn and Oke (1972) and showed that quasars are often associated with groups and clusters of galaxies at similar redshifts.

Follow up observations of radio sources have also led to the discovery of distant clusters. For example, Spinrad et al. (1976) found two rich clusters at redshifts of z = 0.53936 and z = 0.5490 whilst identifying radio sources with accompanying faint galaxies.

French and Gunn (1983) showed that galaxies do show a tendency to cluster around low-redshift QSOs ($z < 0.35$), but more quantitative work was needed in order to better understand the relationship between quasars and galaxies. Green & Yee (1984) investigated the environment of 108 bright quasars ($0.05 < z < 2.0$). Their findings were that quasars do seem to be associated with galaxies at similar redshift and that areas around quasars showed a statistically significant excess of galaxies compared to control fields. Hence excess galaxies do cluster around quasars and the apparent magnitudes of these excess galaxies is consistent with what is expected for normal galaxies situated at the cosmological redshifts implied by the quasars (Yee & Green 1984). In agreement with work by Stockton (1978) and French & Gunn (1983), Yee & Green (1984) found that quasars at redshifts $z \leq 0.4$ are not found at the centers of rich clusters and are in general not linked to very rich clusters (Abell class 1 and higher), but are situated in regions with a galaxy density that is above average. However, radio loud quasars have been located in clusters

with Abell richness 1 (eg. Yee & Green 1987 at $z \approx 0.6$) and at redshifts of $z \approx 0.6$ show an increased density of galaxies compared to $z \leq 0.5$ (Yee & Green 1987).

Work at higher redshifts includes Tanaka et al. (2001) who investigated a region with a concentration of 5 QSOs at $z = 1.086$ within a group of 23 QSOs and found evidence suggestive of superclustering at this redshift. Yamada et al. (1997) investigated a radio-loud quasar at $z = 1.1$ and the results suggest that the quasar is located in a cluster of galaxies with Abell richness class ≥ 0.

Radio-loud quasars are often found in the central parts of clusters (eg. Ellingson & Yee 1994 and references within), but in contrast Yee & Green (1984) found that radio-quiet quasars tend to be fairly isolated and are generally not found in rich clusters and groups. Tanaka et al. (2001) at $z \sim 1.1$ was in agreement with this, but found that the radio-quiet quasars were themselves strongly clustered. They suggest that radio-quiet quasars may tend to be located on the outskirts of galaxy clusters. Similar work, focused on finding a relationship between the clustering of AGNs and superclustering, has been done by Longo (1991); Ford, Ciardullo & Harms (1983) and West (1991). Work on the large-scale clustering of AGNs/QSOs (eg. Crampton, Cowley & Hartwick 1989; Graham, Clowes & Campusano 1995 and Komberg, Kravtsov & Lukash 1996) will further promote the understanding of the link between quasars in groups and large-scale structure.

Schneider et al. (1992) found photometric and spectroscopic evidence for a rich cluster associated with a radio-quiet quasar at a redshift of $z = 0.299$.

As already mentioned, extended X-ray sources are often associated with clusters of galaxies. This is due to the hot intracluster medium in clusters that produce thermal brehmsstralung as a result of being compressed in a deep potential well. The X-ray emission is proportional to the square of the density of the hot gas (Vikhlinin et al. 1998).

Using X-ray sources to locate galaxy clusters is currently the most effective method, as X-ray detection provides the least amount of bias in terms of selection effects and is also the most statistically constrained (Rosati et al. 1995; Rosati, Borgani & Norman 2002; Mullis et al. 2003). Due to the fact that clusters are very luminous X-ray sources and are also extended, it is possible to locate them at high redshifts (Mullis et al. 2003).

The Einstein Observatory (launched in 1979) and ROSAT (launched in 1990) satellites provided X-ray observations that have resulted in many X-ray selected cluster surveys (see table in Mullis et al. 2003). The Einstein Observatory's deep surveys were mainly aimed at separating individual X-ray sources from the X-ray background. The ROSAT mission accomplished an all-sky survey and achieved a greater sensitivity compared to Einstein (Danziger & Gilmozzi 1997). After completion of its all-sky survey, ROSAT also conducted thousands of pointed observations which can be used to look for distant clusters serendipitously (eg. Rosati et al. 1995).

Three regions were chosen as targets, to search for galaxy clusters. The details of the candidate regions for this search are given in Table 3.1 and in all cases observations were

Table 3.1: Details of target regions used to search for galaxy clusters

Target name	Right Ascension (2000.0)	Declination (2000.0)	Observation run	Number of fields observed
Pavo Deep field	21 15 00	-67 48 00	Sept/Oct 2003	10
Field A	09 14 30	-69 58 55	March 2004	9
Field B	13 25 35	-38 25 50	March 2004	5

centred on the coordinates quoted.

In order to compare the results from the target fields with field galaxies, a control field was observed. This field was centred on the QSO PKS J0314-6548 which has a redshift of $z = 0.636$. Details of this control field (dubbed the IRSF Deep field) are given in Table 3.2 and a plot of the contents of this region is shown in Figure 3.1. This field was chosen as there is only one QSO and no X-ray sources. The QSO is at a comparable redshift to our candidate clusters and thus will enable a comparison between the number of galaxies found in this region compared to our target regions. This will allow us to establish whether we have overdensities in our target regions.

3.1.2 Target region : Pavo

The first field was the Einstein deep X-ray field in Pavo. The first work on providing optical identification of X-ray sources in this field was done by Griffiths et al. (1983). Further work by Griffiths et al. (1992) was able to identify 7 Active Galactic Nuclei (AGN) among the 17 original sources from the EMSS observations. Danziger & Gilmozzi (1997) combine a new analysis of the Einstein data with previous identifications and also compare their results with the findings of ROSAT for this region. Their results indicate the presence of 16 QSOs and a further 3 candidates in this 40 arcminute square region. The positions of the x-ray sources are shown in Figure 3.2. and Table 3.3 lists the X-ray sources in this region (from NED[1]) with available redshifts.

[1]This research has made use of the NASA/IPAC Extragalactic Database (NED), which is operated by the Jet Propulsion Laboratory, Caltech, under contract with the National Aeronautics and Space Administration.

Table 3.2: Details of Control Field

Target name	Right Ascension (2000.0)	Declination (2000.0)	Observation run	Number of fields observed
IRSF Deep field	03 14 22	-65 48 25	Sept/Oct 2003	5

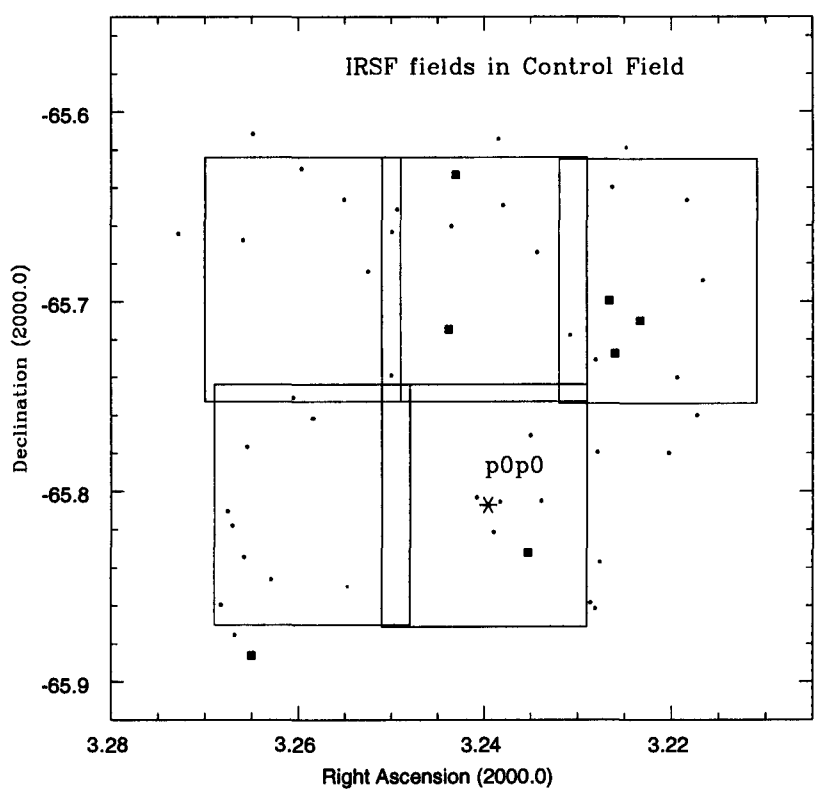

Figure 3.1: The distribution and content of the IRSF Deep Field.
The dots are galaxies, the solid squares are radio sources and the asterisk is the QSO PKS J0314-6548 (from NED). The squares indicate the fields observed and the label "p0p0" indicates the location of the central field of the raster used in the observations. The full raster is shown in Figure 3.6.

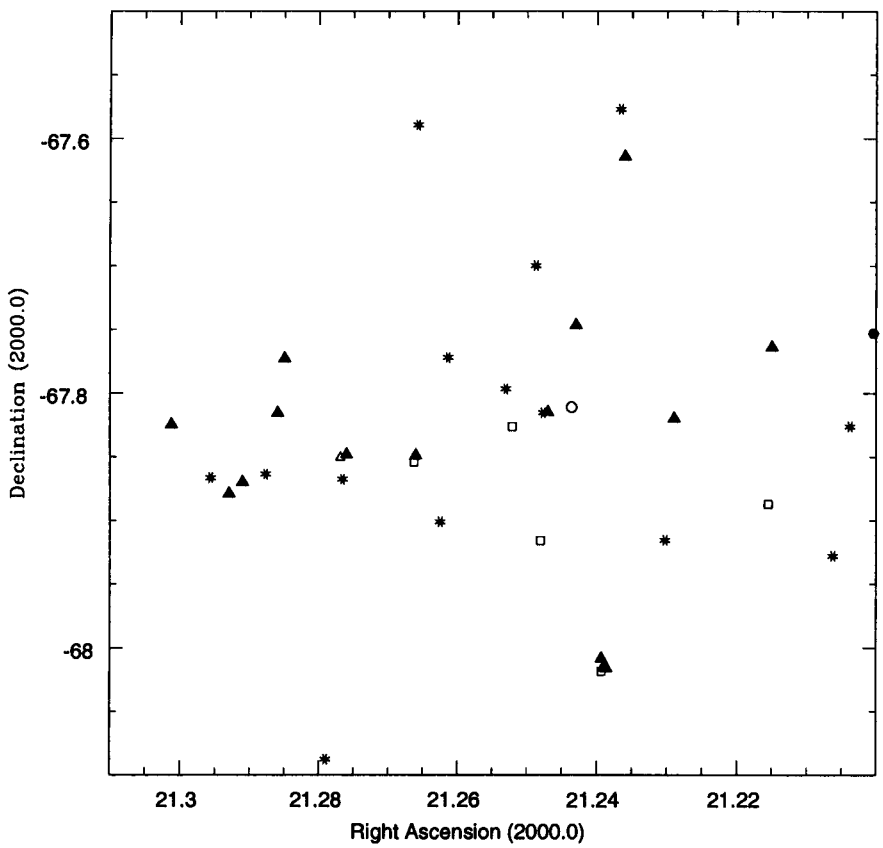

Figure 3.2: Distribution of X-ray sources in the Pavo region.
The optical identification of these sources (from Danziger & Gilmozzi; 1997) are as follows: asterisks are QSOs, open squares are galaxies, the open circle is a faint YSO (Yellow Stellar Object) and the open triangle represents an X-ray source with no optical counterpart. The filled triangles represent X-ray sources listed in NED not included in the analysis.

Table 3.3: Details of X-ray sources in Einstein deep X-ray field in Pavo

Object name	Right Ascension (2000.0)	Declination (2000.0)	Einstein Ref No.	Identification	Redshift
1WGA J2112.2-6749	21h12m13.72s	-67h49m33.7s	2#6	QSO	1.002
1WGA J2112.9-6745	21h12m55.70s	-67d45m50.0s	-	X-ray source	-
[GMG83] 02	21h12m55.95s	-67d53m12.7s	3#5	Galaxy	0.396
[GMG83] 03	21h12m57.06s	-67d38m09.6s	-	Galaxy	-
1WGA J2113.7-6749	21h13m45.10s	-67d49m13.0s	-	X-ray source	-
EXSS 2109.3-6806	21h13m49.33s	-67d54m55.7s	2#3	QSO	0.685
1WGA J2114.1-6736	21h14m09.50s	-67d36m50.0s	-	X-ray source	-
[GMG83] 04	21h14m11.79	-67d34m36.5s	3#1	QSO	0.696
1WGA J2114.3-6800	21h14m18.90s	-68d00m58.0s	-	X-ray source	-
RX J2114.3-6800	21h14m20.40s	-68d00m56.0s	-	Galaxy cluster	0.130
DS 210958-681304	21h14m21.41s	-68d00m31.3s	-	Galaxy	0.130
1WGA J2114.5-6744	21h14m35.00s	-67d44m49.0s	-	X-ray source	-
[GMG83] 06	21h14m37.18s	-67d48m39.0s	2#1	?? [a]	-
RX J2114.8-6748	21h14m50.70s	-67d48m53.2s	-	X-ray source	-
[HB89] 2110-680	21h14m51.67s	-67d48m55.7s	1#2	QSO	0.900
1WGA J2114.9-6741	21h14m55.56s	-67d41m58.5s	3#2	QSO	1.020
1WGA J2115.1-6747	21h15m11.29s	-67d47m48.2s	4#5	QSO	0.765
[HB89] 2111-679	21h15m40.91s	-67d46m19.9s	1#1	QSO	0.720
[HB89] 2111-681	21h15m44.88s	-67d54m03.1s	1#7	QSO	1.130
[HB89] 2111-677	21h15m56.71s	-67d35m21.3s	4#1	QSO	0.500
1WGA J2115.9-6750	21h15m57.30s	-67d50m57.0s	-	X-ray source	-
EXSS 2111.2-6804	21h15m58.48s	-67d51m14.1s	1#4	Galaxy	0.408
[GMG83] 15	21h16m33.40s	-67d50m54.2s	-	X-ray source	-
[GMG83] 14	21h16m35.80s	-67d52m02.1s	1#6	QSO	0.505
RX J2117.1-6746	21h17m06.70s	-67d46m22.0s	-	X-ray source	-
1WGA J2117.1-6748	21h17m08.30s	-67d48m57.0s	-	X-ray source	-
1WGA J2117.2-6751	21h17m13.90s	-67d51m36.0s	1#5	X-ray source	-
EXSS 2113.0-6804	21h17m27.03s	-67d52m12.6s	-	X-ray source	-
1WGA J2117.5-6752	21h17m34.50s	-67d52m46.0s	-	X-ray source	-
[GMG83] 16	21h17m44.19s	-67d51m59.2s	*** [b]	QSO	0.800
1WGA J2118.0-6749	21h18m04.40s	-67d49m29.0s	-	X-ray source	-

Notes: [a] In the Danziger & Gilmozzi (1997) analysis, this object was too faint for a spectroscopic identification and was thought to either be an AGN or a star-forming galaxy.
[b] This source was not detected in the second analysis of the Einstein Observations (Danziger & Gilmozzi 1997).

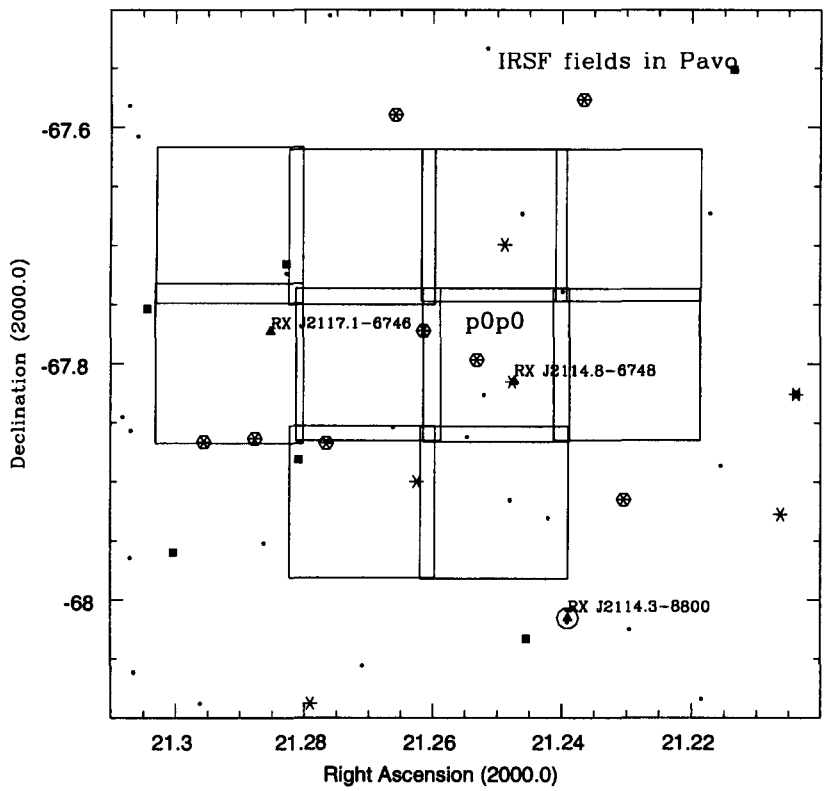

Figure 3.3: The distribution and content of the fields observed in Pavo.
The dots are galaxies, the solid squares are radio sources, the asterisks are QSOs, the open circle is a galaxy cluster and the encircled asterisks are QSOs in the redshift range z=0.6-0.8. The squares indicate the fields observed and the label "p0p0" indicates the location of the central field of the raster used in the observations. The full raster is shown in Figure 3.6.

In Figure 3.3. we plot the fields observed and optical and radio content of the same region. Within this region, we find a galaxy cluster associated with the X-ray source RX J2114.3-6800. This cluster was identified by Vikhlinin et al. (1998) who compiled a catalogue of galaxy clusters using the ROSAT PSPC (Position Sensitive Proportional Counter) high Galactic latitude pointings to search for extended X-ray sources (dubbed the 160 square degree ROSAT survey). Optical identification of these sources revealed 203 galaxy clusters. This work was followed up by Mullis et al. (2003) who revised and supplied spectroscopic redshifts for the sources in the Vikhlinin et al. (1998) catalogue.

We also find two X-ray sources from the ROSAT PSPC pointings, namely RX J2117.1-6746 and RX J2114.8-6748. Both form part of the Bright SHARC (Serendipitous High-

Redshift Archival ROSAT Cluster) catalogue (Romer et al. 2000), but were not followed up with optical observations (despite meeting the requirements chosen to reveal extended sources) due to the fact that they fell below the arbitrary count rate imposed to reduce the sample size.

The Pavo region was also investigated by Burke et al. (2003) as part of the Southern SHARC Catalogue. The only extended X-ray source in this field that they did follow-up optical observations on was RX J2114.3-6801 (21h14m20.8;-68°01′04″.2) which falls outside of our observation region.

Thus as a result of the concentration of QSOs (particularly in the redshift range z=0.6-0.8) in this region and the presence of extended X-ray sources, it was considered favourable as a target for finding galaxy clusters.

3.1.3 Target region : Field A

The second target field is shown in Figure 3.4 and was chosen due to the concentration of X-ray sources in this region. All the X-ray sources in this region are from a data release generated by White, Giommi, & Angelini (2000) using ROSAT Position Sensitive Proportional Counter Pointed Observations. The centre of this field was chosen to be close to the X-ray source 1WGA J0914.4-6959. Details of the content of this region (from NED) is given in Table 3.4.

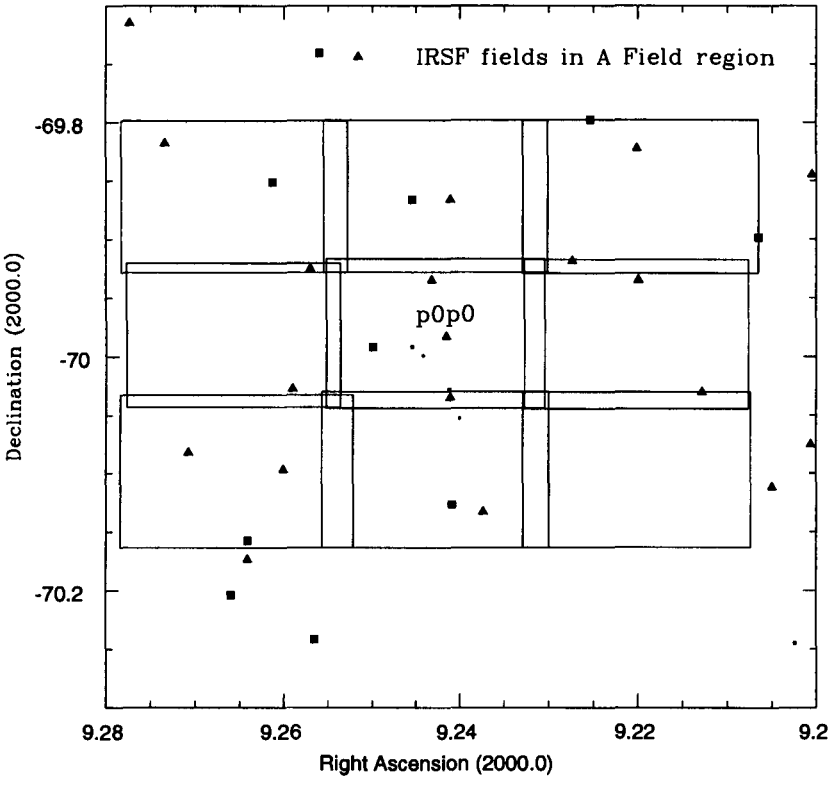

Figure 3.4: The distribution and content of the fields observed in Field A.
The dots are galaxies, the solid squares are radio sources and the solid triangles are X-ray sources (from NED). The squares indicate the fields observed and the label "p0p0" indicates the location of the central field of the raster used in the observations. The full raster is shown in Figure 3.6.

Table 3.4: Details of objects in Field A

Object name	Right Ascension	Declination	Identification	Redshift
1WGA J0912.0-6950	09h12m01.80s	-69d50m42.0s	X-ray source	-
1WGA J0912.0-7004	09h12m02.20s	-70d04m32.0s	X-ray source	-
2MASX J09120858-70144	09h12m08.60s	-70d14m42.1s	Galaxy	-
1WGA J0912.3-7006	09h12m18.00s	-70d06m42.0s	X-ray source	-
SUMSS J091223-695355	09h12m23.23s	-69d53m55.3s	Radio source	-
1WGA J0912.7-7001	09h12m45.90s	-70d01m49.0s	X-ray source	-
1WGA J0913.1-6956	09h13m11.80s	-69d56m05.0s	X-ray source	-
1WGA J0913.2-6949	09h13m12.20s	-69d49m20.0s	X-ray source	-
SUMSS J091331-694752	09h13m31.06s	-69d47m52.2s	Radio source	-
1WGA J0913.6-6955	09h13m38.20s	-69d55m07.0s	X-ray source	-
1WGA J0914.2-7007	09h14m14.60s	-70d07m58.0s	X-ray source	-
2MASX J09142393-70030	09h14m23.91s	-70d03m09.7s	Galaxy	-
SUMSS J091427-700737	09h14m27.11s	-70d07m37.3s	Radio source	-
1WGA J0914.4-6951	09h14m27.90s	-69d51m58.0s	X-ray source	-
1WGA J0914.4-7002	09h14m28.10s	-70d02m07.0s	X-ray source	-
2MASX J09142818-70014	09h14m28.23s	-70d01m39.6s	Galaxy	-
1WGA J0914.4-6959	09h14m29.40s	-69d59m00.0s	X-ray source	-
1WGA J0914.5-6956	09h14m35.00s	-69d59m00.0s	X-ray source	-
2MASX J09143896-69595	09h14m39.04s	-69d59m57.5s	Galaxy	-
SUMSS J091443-695159	09h14m43.34s	-69d51m59.8s	Radio source	-
2MASX J09144345-69593	09h14m43.48s	-69d59m30.4s	Galaxy	-
SUMSS J091500-695931	09h15m00.00s	-69d59m31.4s	Radio source	-
1WGA J0915.0-6944	09h15m05.80s	-69d44m39.0s	X-ray source	-
SUMSS J091521-694426	09h15m21.55s	-69d44m26.6s	Radio source	-
SUMSS J091523-701431	09h15m23.44s	-70d14m31.7s	Radio source	-
1WGA J0915.4-6955	09h15m25.30s	-69d55m31.0s	X-ray source	-
1WGA J0915.5-7001	09h15m32.50s	-70d01m39.0s	X-ray source	-
1WGA J0915.6-7005	09h15m36.00s	-70d05m48.0s	X-ray source	-
SUMSS J091540-695104	09h15m40.67s	-69d51m04.6s	Radio source	-
SUMSS J091550-700928	09h15m50.58s	-70d09m28.3s	Radio source	-
1WGA J0915.8-7010	09h15m50.60s	-70d10m25.0s	X-ray source	-
SUMSS J091557-701214	09h15m57.61s	-70d12m14.1s	Radio source	-
1WGA J0916.2-7004	09h16m14.80s	-70d04m57.0s	X-ray source	-
1WGA J0916.4-6949	09h16m14.80s	-70d04m57.0s	X-ray source	-
1WGA J0916.6-6942	09h16m38.60s	-69d42m54.0s	X-ray source	-

3.1.4 Target region : Field B

Target region Field B was chosen to be centered on RX J1325.5-3826 which is also identified as 1WGA J1325.5-3825 (Burke et al. 2003). This cluster has a redshift of $z = 0.445$ and hence was considered an ideal candidate for further study. RX J1325.5-3826 forms part of the Southern SHARC catalogue which was generated using an X-ray selected sample from ROSAT PSPC data. A sliding-box technique was employed to detect extended X-ray sources in the data, which was followed by an optical identification programme (Burke et al. 2003).

The content of this region is shown in Figure 3.5 and listed in Table 3.5.

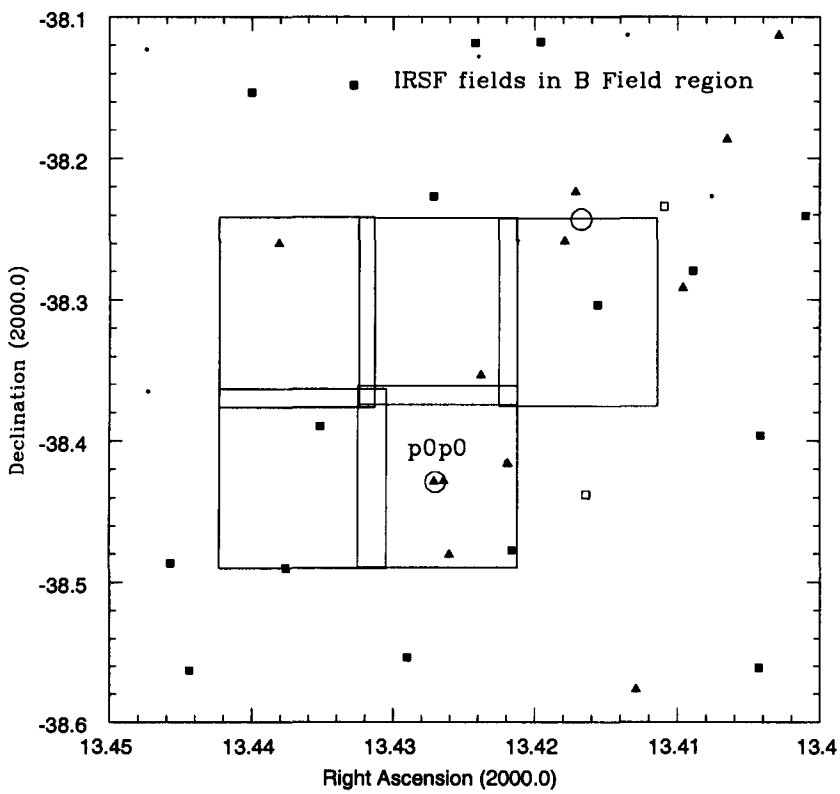

Figure 3.5: The distribution and content of the fields observed in Field B. The dots are galaxies, the solid squares are radio sources, the solid triangles are X-ray sources, the open circles are galaxy clusters and the open squares are visual sources (from NED). The squares indicate the fields observed and the label "p0p0" indicates the location of the central field of the raster used in the observations. The full raster is shown in Figure 3.6.

Table 3.5: Details of objects in B Field

Object name	Right Ascension	Declination	Identification	Redshift
NVSS J132415-383340	13h24m15.64s	-38d33m40.5s	Radio source	-
1WGA J1324.7-3834	13h24m46.60s	-38d34m37.0s	X-ray source	-
NVSS J132544-383313	13h25m44.57s	-38d33m13.9s	Radio source	-
NVSS J132639-383347	13h26m39.67s	-38d33m47.1s	Radio source	-
NVSS J132403-381427	13h24m03.57s	-38d14m27.0s	Radio source	-
1WGA J1324.1-3806	13h24m10.60s	-38d06m48.0s	X-ray source	-
2MASX J13241415-38022	13h24m14.15s	-38d02m21.9s	Galaxy	-
NVSS J132415-382347	13h24m15.23s	-38d23m47.0s	Radio source	-
2MASX J13241942-37565	13h24m19.42s	-37d56m51.1s	-	
RX J132424-3811	13h24m23.30s	-38d11m13.0s	X-ray source	-
2MASX J13242716-38133	13h24m27.18s	-38d13m37.3s	Galaxy	-
2MASX J13243151-37545	13h24m31.51s	-37d54m57.1s	Galaxy	-
NVSS J132432-381647	13h24m32.01	-38d16m47.2s	Radio source	-
1WGA J1324.5-3817	13h24m34.40s	-38d17m31.0s	X-ray source	-
GSC 7787 00700	13h24m39.19s	-38d14m03.0s	Visual source	-
ESO 324- G 018	13h24m48.64s	-38d06m46.9s	Galaxy	-
NVSS J132456-381814	13h24m56.02s	-38d18m14.3s	Radio source	-
NVSS J132457-380356	13h24m57.39s	-38d03m56.3s	Radio source	-
GSC 7787 01660	13h24m59.20s	-38d26m17.2s	Visual source	-
RX J1325.0-3814	13h25m00.00s	-38d14m35.9s	Galaxy cluster	0.296
1WGA J1325.0-3813	13h25m01.60s	-38d13m26.0s	X-ray source	-
1WGA J1325.0-3815	13h25m04.60s	-38d15m32.0s	X-ray source	-
1WGA J1325.0-3803	13h25m04.60s	-38d03m23.0s	X-ray source	-
NVSS J132517-382838	13h25m17.91s	-38d28m38.8s	Radio source	-
2MASX J13251637-38152	13h25m16.38s	-38d15m28.7s	Galaxy	-
NVSS J132517-382838	13h25m17.91s	-38d28m38.8s	Radio source	-
1WGA J1325.3-3824	13h25m18.80s	-38d24m58.0s	X-ray source	-
2MASX J13251937-38245	13h25m19.28s	-38d24m53.5s	Galaxy	0.0667
NVSS J132521-375729	13h25m21.61s	-37d57m29.2s	Radio source	-
NVSS J132525-375419	13h25m25.12s	-37d54m19.1s	Radio source	-
1WGA J1325.4-3821	13h25m25.80s	-38d21m14.0s	X-ray source	-
2MASX J13252635-38074	13h25m26.31s	-38d07m40.8s	Galaxy	-
NVSS J132527-380706	13h25m27.20s	-38d07m06.6s	Radio source	-
1WGA J1325.5-3754	13h25m30.10s	-37d54m29.0s	X-ray source	-
RX J132534-3828	13h25m33.70s	-38d28m50.0s	X-ray source	-
1WGA J1325.5-3825	13h25m34.90s	-38d25m43.0s	X-ray source	-
RX J1325.5-3826	13h25m37.09s	-38d25m44.9s	Galaxy cluster	0.445
1WGA J1325.6-3813	13h25m37.50s	-38d13m38.0s	X-ray source	-
NVSS J132547-382735	13h25m47.27s	-38d27m35.8s	Radio source	-
NVSS J132558-380855	13h25m58.16s	-38d08m55.2s	Radio source	-
NVSS J132600-375407	13h26m00.47s	-38d23m22.2s	Radio source	-
NVSS J132606-382322	13h26m06.71	-38d23m22.2s	Radio source	-
NVSS J132615-382924	13h26m15.29s	-38d29m24.9s	Radio source	-
1WGA J1326.2-3815	13h26m17.10s	-38d15m38.0s	X-ray source	-
NVSS J132619-380503	13h26m19.97s	-38d05m03.6s	Radio source	-
NVSS J132621-375917	13h26m21.40s	-37d59m17.2s	Radio source	-
NVSS J132623-380912	13h26m23.93s	-38d09m12.6s	Radio source	-
NVSS J132644-382911	13h26m44.36s	-38d29m11.7s	Radio source	-
2MASX J13265031-38215	13h26m50.30s	-38d21m54.2s	Galaxy	-
2MASX J13265067-38072	13h26m50.64s	-38d07m22.6s	Galaxy	-
1WGA J1326.9-3802	13h26m57.20s	-38d02m31.0s	X-ray source	-

3.2 Description of Observations and Reductions

The observations that are the subject of this dissertation were obtained using SIRIUS (Simultaneous-Color InfraRed Imager for Unbiased Survey) currently mounted on the 1.4m InfraRed Survey Facility (IRSF) telescope situated at the Sutherland observing site of the South African Astronomical Observatory.

3.2.1 The IRSF and SIRIUS

The IRSF consists of a 1.4m telescope and an infrared camera (SIRIUS) that can image three near-infrared bands simultaneously. The telescope has a field of view of 7.7×7.7 arcmin^2, which makes it a close match to the 8-arcmin diameter field of view of SALT. This makes it an ideal instrument with which to obtain data that can be followed up by SALT. The telescope (which is a Japanese and South African collaboration) is a F/10, alt-azimuth Cassegrain design and had first light on 27 November 2000.

SIRIUS consists of three 1024×1024 HgCdTe (HAWAII) arrays (see section 3.2.2) used in conjunction with J, H and K_s broad-band filters. These bands are centered on λ=1.25μm (J-Band), λ=1.65μm (H-Band) and λ=2.15μm (K_s-Band). SIRIUS has pixel scale of 0.45 arcsec/pixel which makes it ideal for deep, high resolution surveys of large areas in the near-IR.

See Table 3.6. for a comparison of SIRIUS with 2MASS and DENIS (Nagashima et al. 1999).

Table 3.6: Comparison of DENIS, 2MASS and SIRIUS

	DENIS	2MASS	SIRIUS
wavelength (μm)	0.8 1.25 2.15	1.25 1.65 2.16	1.25 1.65 2.15
bands	I J K_s	J H K_s	J H K_s
pixels	1024 256 256	256 256 256	1024 1024 1024
pixel scale	0.7″ 3″ 3″	2″	0.45″
field of view	12′	8.5′	7.8′
limiting magnitudes	18.0 16.1 13.5	16.5 15.8 15.0	20.6 19.4 19.1
integration times	1.22sec × 9	1.3sec × 6	total 900sec
telescope	1m	1.3m×2	1.4m

3.2.2 Aspects of Infrared Observations

Infrared arrays are similar to the CCDs (Charged Coupled Devices) used at optical wavelengths, in that they both rely on semi-conductors to "catch" incoming radiation. The detectors work on the principle that the incident photons excite the electrons in the valence band into the conduction band by giving them enough energy to overcome the bandgap between the two. Once the electrons are in the conduction band, this effect can be mea-

sured by either the current generated (photodiodes) or the change in conductivity of the material (photoconductors).

One practical difference between CCDs and infrared arrays is how they are made. Optical arrays are constructed on silicon which is sensitive to photons in the visible part of the electromagnetic spectrum. By contrast infrared arrays are constructed from two layers. The top layer consists of the infrared-sensitive material, whereas the bottom layer is silicon-based and facilitates the readout of the array (called the multiplexer). The two layers of the detector are linked electronically, with one connection per pixel, by means of indium pillars.

HgCdTe detectors consist of a HgCdTe (mercury cadmium telluride) layer formed on a sapphire substrate. Initially developed by the Rockwell International Science Center (now part of Boeing) for the NICMOS instrument on the Hubble Space Telescope, this technique was successfully extended to arrays of 1024×1024 pixels such as the Hawaii array.

Another difference between CCDs and infrared arrays is the way in which they are read out. An infrared array is read out directly, as opposed to a CCD where charge is first transferred to an integrating circuit, which is then reset after each charge transfer. This is possible due to the fact that in a direct array the voltage on the pixel is directly connected to the output bus of the chip. This is done by means of x and y shift registers which generate a column select signal and a row select signal respectively. Only the output of that pixel where both signals are present is read out. The detector voltage can be reset as each pixel has a MOSFET (Metal Oxide Semiconductor Field Effect Transistor) switch which connects it to the reset bus, if the reset signal is given.

When working at infrared wavelengths, the transmission and emission of the Earth's atmosphere plays a major role and is vital aspect of observations. The main absorbers of infrared radiation in the atmosphere are H_2O and CO_2. Ground-based infrared astronomy is also greatly affected by the scattering of incident radiation by air molecules, dust and aerosols and there is little to be done to lessen these effects.

Due to the large contribution from background radiation, sky as well as other sources, infrared arrays saturate very quickly . This is due to factors such as atmospheric emission, emission from the telescope itself, radiation from warm surfaces and scattered light within the instrument. For wavelengths of $\lambda < 2\mu$m, the infrared emission from the atmosphere is mainly due to scattered moonlight and starlight as well as airglow due to OH emission. For $\lambda > 2.3\mu$m the thermal blackbody radiation of the atmosphere dominates. Since this work involves using broadband J, H and K_s filters, the dominant sky background emission is as a result of excitation of the OH^- radical. These variations have spatial variations of tens of kilometers and vary over timescales of 5-15 minutes.

In order to overcome this problem, the infrared arrays are read out frequently and output a number of frames which are then combined. Not only is the infrared sky bright,

but it also varies on the timescale of minutes due to fluctuations in OH emission and temperature. Hence short exposures are essential in order to correct for this effect. As a result, making a separate exposure of the sky is not ideal and a more efficient method is to obtain a sky background frame by combining individual frames.

As with CCD data reduction, dealing with bad pixels is important. These pixels may be insensitive or have excessive dark current. Dithering is a technique that can be used to overcome the effect of bad pixels in the array by taking exposures with the position of the telescope slightly offset from the field centre. In this way the field falls on slightly different parts of the array. By median averaging the realigned frames, the effect of the bad pixels is minimised. The method of median averaging is ideal as it entails taking the pixel value that has as many values above it as below it. By combining several frames, the bad pixel output is essentially eliminated.

The dithering technique can also be used to generate a sky frame. This is done by using exposures of the same duration, but of different fields. By median averaging them, the stellar contributions are eliminated (as long as the fields used are not overcrowded) and a blank sky frame is generated. Before making a median average, though, it is necessary to adjust the pixel values by a uniform amount to account for variations in the background and ensure that the range of pixel values in each frame is the same.

In order to correct for the varying sensitivity of pixels across the array, it is necessary to make flat fields. Flat fields are made by observing a uniform source and then subtracting a dark frame with the same exposure time. By dividing frames by the flat field frame, one can normalise the sensitivity of the array.

In infrared observations, making dark current corrections is essential. This is achieved by taking dark frames (i.e. with the cold shutter closed) and are especially important as the infrared arrays are even more sensitive to thermal radiation than CCDs. Dark current is essentially thermal noise and occurs as a result of conduction electrons from extraneous sources producing false current. Dark current can be due to thermal effects or cosmetic defects in the array causing leakage currents. The correction necessary for the intrinsic bias voltage is incorporated into the dark frame subtraction and so no separate bias frame is required.

3.2.3 Details of Data Acquisition

The photometric data presented in this dissertation was obtained during two observing runs (October 2003 and March 2004) on the IRSF situated at the SAAO observing site of Sutherland. Data acquisition was done using the SIRIUS array and thus J, H and K_s observations were done simultaneously.

Each target field was divided into a raster as shown in Figure 3.6. An offset radius of $420''$ was used (this is the distance between the centres of the blocks). Each observation consisted of 10 exposures of 30s each, the first being centred on the centre of the target

block. This was then followed by 9 exposures which are equally spaced around a circle with a fixed dither radius. The dither radius used in these observations was 25″. The same block was then observed repeatedly in order to obtain multiple images of the same area. This then allowed them to be median averaged in order to give an effectively much deeper exposure. A summary of observations is given in Table 3.7.

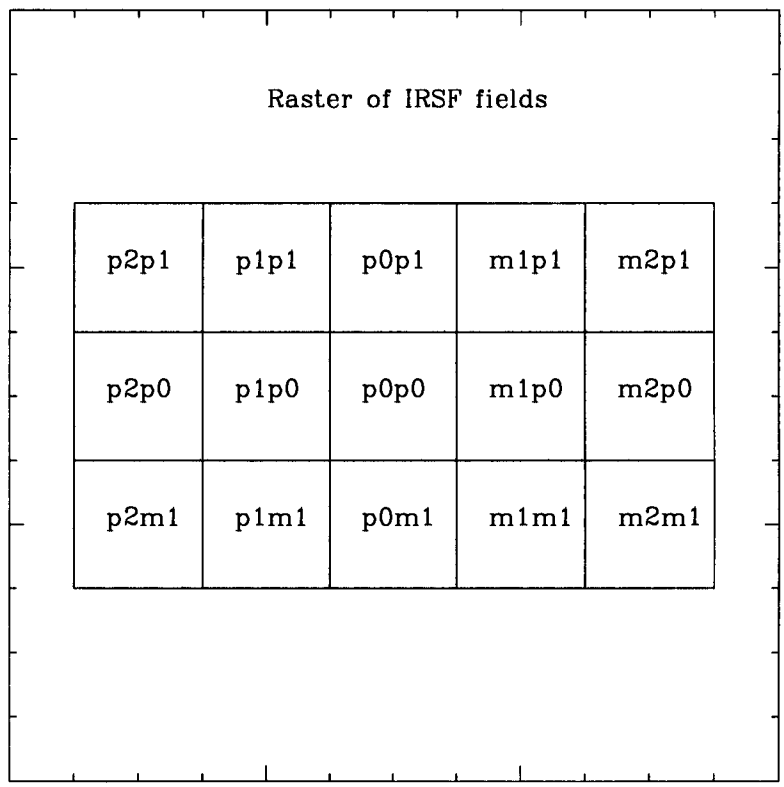

Figure 3.6: Raster of IRSF fields

Persson et al. (1998) faint standards were used for the standard star observations and were observed every 2-3 hours. Details of standard star observations is given is Table 3.8. Standard star observations consisted of 9 exposures, with the first exposure centred on the star and the other 8 on a square offset-pattern from the centre by $\pm 120''$ in Right Ascension and Declination. The positions of these exposures were E, NE, N, NW, W, SW, S and SE from the centre.

Darks and twilight flat were frames were obtained for each night, either at the beginning or end of the night. All data are stored in the form of FITS (Flexible Image Transport System) files.

Table 3.7: Details of observations

Observation Date	Field	Repeats	Total Exposure (s)	Seeing in Ks (FWHM)	Weather
2003 September 30	pavo-m1p0	8	2400	1.″1	Light cirrus, cleared after sunset
	pavo-p0p0	8	2400		
	pavo-p1p0	8	2400		
	irsf-p1p0	9	2700		
	irsf-p0p0	9	2700		
2003 October 2	pavo-p0p1	12	3600	1.″0	High cirrus clouds initially, cloudy later
	pavo-m1p1	12	3600		
2003 October 5	pavo-p1m1	8	2400	1.″2	Clear, no wind
	pavo-p0m1	8	2400		
	irsf-p1p1	8	2400		
	irsf-p0p1	8	2400		
	irsf-m1p1	8	2400		
2003 October 6	pavo-p1p1	7	2100	1.″6	Clear, variable breeze
	pavo-p2p1	7	2100		
	pavo-p2p0	7	2100		
2004 March 2	afield-p1p0	11	3300	2.″6	Clear, little wind
	afield-p0p0	11	3300		
	afield-m1p0	11	3300		
	bfield-p1p0	11	3300		
	bfield-p0p0	11	3300		
2004 March 3	bfield-p1p1	11	3300	1.″2	Cirrus clouds, cleared after midnight
	bfield-p0p1	11	3300		
	bfield-m1p1	11	3300		
2004 March 5	afield-p1p1	11	3300	3.″2	Clear initially, wind with ridge cloud later
	afield-p0p1	11	3300		
	afield-m1p1	11	3300		
2004 March 6	afield-p1m1	9	2700	1.″6	Clear conditions initially, cloudy later
	afield-p0m1	9	2700		
	afield-m1m1	9	2700		
2004 March 7	afield-p1p1	11	3300	3.″2	Cloudy, cleared partially, but still patchy
	afield-p0p1	11	3300		

Table 3.8: Details of standard star observations

Observation Date	Persson standard	No. of Observations	Exposure time(s)
2003 September 30	p9181	1	20
	p9103	2	5
	p9106	2	10
2003 October 2	p9181	1	20
2003 October 5	p9182	2	10
	p9183	2	30
	p9181	2	20
	p9103	2	5
	p9106	2	10
	p9111	1	10
2003 October 6	p9182	2	10
	p9181	1	20
2004 March 2	p9129	2	5
	p9125	2	5
2004 March 3	p9147	2	5
	p9146	3	5
	p9154	2	5
2004 March 5	p9129	1	5
	p9132	1	5
2004 March 6	p9129	2	5
	p9125	2	5
	p9132	1	5
2004 March 7	p9129	1	5
	p9157	1	5
	p9147	1	10
	p9146	1	5

3.2.4 Details of Data Reduction

Data was processed using the SIRIUS pipeline (see http://optik2.mtk.nao.ac.jp/%7Eyas /pipeline/manual/pipeline020510-e.html) which makes use of IRAF[2] scripts to perform the standard procedures of infrared image reduction.

The first step in this procedure is the generation of an *obslog* file which extracts all the relevant information from the **fits** files. One therefore has a file containing the file number, object name, integration time, RA offset, Dec. offset, date, time, Julian Day, epoch, RA, Dec. and airmass.

The next step is applying dark current and flat field corrections. For each exposure time, 10 dark frames (i.e. the cold shutter is closed) are taken and these are then averaged and combined. The dark current correction is then applied by subtracting this combined frame from the image frame. A flat field correction is then applied.

The flat field correction is done by choosing pairs of frames with suitable counts that are not saturated and in the linear regime (i.e. counts less than 6000 in J and H and less than 4500 in K_s) and a level difference of about 2000 counts. A difference image is then created by subtracting the fainter frame from the brighter frame for each pair. This image is then normalised using the median value across the frame and all the normalised frames are in turn median combined. The raw frames are then divided by this resultant frame.

The pipeline then generates sky fields which will be subtracted from the object frames once the dark current and flat field corrections have been applied. The sky fields can be generated in various ways. If separate exposures were taken of the sky, these can be combined by median-averaging them to creat a sky frame. If dedicated sky frames were not taken, one can either create a self-sky or a survey frame. A self-sky makes a sky frame from the same set of dithered exposures that are combined to form an object frame. By median combining the frames the contributions from the objects get "washed out" and so just the contribution from the sky background is left.

The alternative method of creating a survey frame entails creating a sky frame from the previous, self and successive set of dithered frames using median averaging. The frames at the edge of an observing set are combined as in the self-sky technique. In the data reduction process for the purposes of this dissertation, survey frames were used to generate sky background frames.

Once the dark, flat field and sky background corrections have been applied, the dithered frames are combined into a single image. This is done by using the IRAF task **daofind** to find matching stars in each frame with their positions. The task **imalign** in the IRAF package **immatch** computes the shifts in x and y needed to align the dithered frames. The task **imcombine** is then used to combine all the dithered exposures as well as all the

[2]IRAF is distributed by the National Optical Astronomy Observatory, which is operated by the Association of Universities for Research in Astronomy, Inc., under cooperative agreement with the National Science Foundation

exposures of the same field into a single "deep" field. Due to the dithering process, the final images are generally slightly larger than the 1024 × 1024 pixels of the arrays.

3.2.5 Calibration of Data

Astrometric Calibration

After the reduction process, it was necessary to align the J, H and K_s images. This was done using the IRAF tasks **geomap** and **geotran** in the package **immatch**. In all cases, the K_s band image was used as the reference frame and the J and H band images were rotated and shifted to match it. The next step was to obtain an astrometric solution for the fields. This was done by using the ESO SkyCat tool to find guide stars with known positions in each field. The catalogue used was the Guide Star Catalogue (GSC)-2 at ESO (European Southern Observatory). By making a database of the x and y positions of the stars with their corresponding Right Ascension and Declination, the IRAF task **ccmap** in the package **imcoords** calculates the plate solutions and updates the world coordinate system in the image header.

Photometric Calibration

The next phase of the analysis process was the standard star photometry. The IRSF pipeline does not combine the standard star frames and these thus need to be combined by hand. Due to the fact that the images are dithered, it is necessary to combine the overlapping parts. The first step was to to copy the common areas of the individual images using the IRAF task **imcopy**. Then the dithered images are aligned using **imalign**. This shifts the images and trims the images to be the same size. The task **imcombine** is then used to average combine the individual images. All these tasks are part of the IRAF package **immatch**.

After combining all the dithered images one can do aperture photometry on the standards in order to obtain their instrumental magnitudes. This was done using the IRAF task **phot** in the package **daophot**. The first step in this process involves choosing an aperture size and the size of the sky annulus to be used. The FWHM (Full Width Half Maximum) of the standard star images was found to be on average around 3 pixels. The aperture size should be 4 or 5 times the FWHM of the stellar image and hence a radius of 14 pixels was chosen for the September/October 2003 run for all nights and for all filters. A radius of 15 pixels for the March 2004 observation run was chosen for all nights and all filters.

Figure 3.7 shows the effects of the size of the aperture on the instrumental magnitude calculated. These points were obtained by running **phot** with different values of the aperture radius on the images obtained on 30 September 2003. As can be seen a radius of 14 pixels is large enough to obtain all of the light from the standard, but is small enough

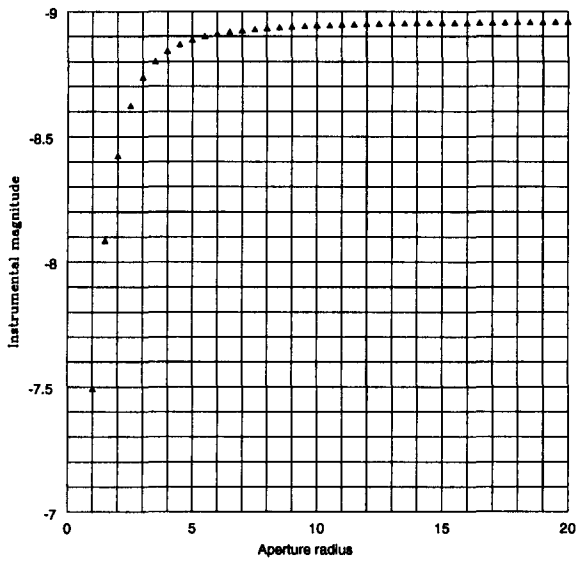

Figure 3.7: Plot of instrumental magnitudes obtained using **phot** for increasing values of aperture radius

to minimise the chance of including bad pixels.

As a radius of 14 and 15 was chosen respectively, the sky value was set to start at pixel 20 and the annulus kept large at 5 pixels to ensure good sampling, but small enough to keep the chance of including bad pixels low. The zero point of the magnitude scale was set at 0 and a centroid centering algorithm was used to determine the center of the star accurately. This algorithm makes use of a centering box and computes the intensity weighted mean and mean error of values between a minimum plus threshold and maximum minus threshold pixel value, within the box. A centering box with a width of 8 pixels (slightly more than twice the size of the FWHM) was specified and the default threshold for the centroid algorithm, namely the mean value, used. A mode sky fitting algorithm was used to determine a reliable sky value. This algorithm calculates the median and mean values in order to determine the mode value which is then the value the sky would have if the star was absent.

The standard stars were identified interactively and the program **phot** then run. The output from this program gives the instrumental magnitudes for the standard stars. These can then be used to find the associated transformation equations.

This can be done using the **photcal** package which transforms instrumental magnitudes to standard magnitudes by solving for colour and extinction terms in the transformation equations. The Persson standards are contained in the NICMOS catalogue within IRAF. The task **mknobsfile** takes the list of **phot** files that contain the instrumental magnitudes

and a list of the image set and produces an observation file. This task extracts relevant quantities from the specified **phot** files, and matches all the observations of the same standard star, as well as the corresponding filters. The output file contains the name of the standard, the filter, the observation time, the airmass, the pixel coordinates of the center of the star and the instrumental magnitude with the associated error.

The next step is to create a text file that specifies how the data is organised in the input files for the task **fitparams**, which solves the transformation equations.

This file is created by the task **mkconfig** which then contains the format of the standard star catalogue to be used (in our case the NICMOS $JHKK_s$ standards catalogue), the format of the observation file and the form of the transformation equations to be used to convert from instrumental magnitudes to the standard system.

The IRAF task **fitparams** is then used to solve the transformation equations using the interactive non-linear least squares package INLFIT. INLFIT computes an initial fit to the set of data points and then produces a plot of the fit as well as a graphics cursor. This allows the user to delete points, change parameters in the task, specify which parameters are to be fit and which are to remain constant and refit the data.

Due to not having a large enough range in airmass the initial fits were unreliable and thus it was necessary to fix the values of the second and third coefficients of the transformation equations. The form of the configuration file used is shown in Figure 3.8.

The resulting values for the zeropoint magnitude are summarised in Table 3.9.

```
# Declare the NICMOS JHKKs standards catalog variables

catalog

J               2       # J magnitude
error(J)        3       # err J
H               4       # H magnitude
error(H)        5       # err H
Ks              6       # Ks (K-short) magnitude
error(Ks)       7       # err Ks
# Declare the observations file variables

observations

TH              3               # time of observation in filter H
XH              4               # airmass in filter H
xH              5               # x coordinate in filter H
yH              6               # y coordinate in filter H
mH              7               # instrumental magnitude in filter H
error(mH)       8               # magnitude error in filter H

TJ              10              # time of observation in filter J
XJ              11              # airmass in filter J
xJ              12              # x coordinate in filter J
yJ              13              # y coordinate in filter J
mJ              14              # instrumental magnitude in filter J
error(mJ)       15              # magnitude error in filter J

TKs             17              # time of observation in filter Ks
XKs             18              # airmass in filter Ks
xKs             19              # x coordinate in filter Ks
yKs             20              # y coordinate in filter Ks
mKs             21              # instrumental magnitude in filter Ks
error(mKs)      22              # magnitude error in filter Ks

# Sample transformation section for the Persson et al JHKKs system

transformation

fit   j1=0.0, j2=0.05
const j3=-0.03
JFIT : mJ = J + j1 + j2 * XJ + j3 * (J - Ks)

fit   h1=0.0, h2=0.05
const  h3=0.000
HFIT : mH = H + h1 + h2 * XH + h3 * (H - Ks)

fit   ks1=0.0, ks2=0.05
const  ks3=0.000
KSFIT : mKs = Ks  + ks1 + ks2 * XKs + ks3 * (H - Ks)
```

Figure 3.8: Configuration File as input into **fitparams**

Table 3.9: Results of standard star transformation equation fits using **fitparams**

Observation Date	j1	j1 error	j2	j3	rms	h1	h1 error	h2	h3	rms	ks1	ks1 error	ks2	ks3	rms
2003 September 30	-21.009	0.010	0.07	-0.03	0.018	-21.162	0.012	0.06	0.0	0.020	-20.357	0.020	0.07	0.0	0.035
2003 October 5	-20.992	0.005	0.07	-0.03	0.020	-21.136	0.004	0.06	0.0	0.015	-20.335	0.008	0.07	0.0	0.023
2003 October 6	-20.967	0.008	0.07	-0.03	0.009	-21.127	0.007	0.06	0.0	0.002	-20.334	0.011	0.07	0.0	0.015
2004 March 2	-20.943	0.010	0.07	-0.03	0.014	-21.125	0.012	0.06	0.0	0.017	-20.302	0.011	0.07	0.0	0.014
2004 March 3	-20.977	0.018	0.07	-0.03	0.043	-21.138	0.015	0.06	0.0	0.038	-20.333	0.017	0.07	0.0	0.041
2004 March 5	-20.956	0.010	0.07	-0.03	0.012	-21.123	0.009	0.06	0.0	0.004	-20.324	0.014	0.07	0.0	0.006
2004 March 6	-20.894	0.008	0.07	-0.03	0.018	-21.049	0.008	0.06	0.0	0.018	-20.269	0.016	0.07	0.0	0.032
2004 March 7*	-20.616	0.043	0.07	-0.03	0.043	-20.820	0.058	0.06	0.0	0.058	-20.181	0.040	0.07	0.0	0.041

* poor night

For observations made on 2 October 2003, no magnitude zeropoint could be calculated as only one standard star was observed and so an average of the September/October values was used. These values are as follows :

J zeropoint	H zeropoint	Ks zeropoint
-20.989 ± 0.017	-21.142 ± 0.015	-20.342 ± 0.011

The results obtained for 7 March 2004 showed a large difference from the results of the other nights and were deemed unreliable. Looking back at the observation record it seems that the most probable cause for this was the poor weather conditions on that night. Inspection of the reduced data revealed that the data quality from this night was too poor and no photometry could be done with on this data set.

3.2.6 Source Detection and Photometry

Before source detection could be performed, it was necessary to trim the borders of the images in order to prevent spurious detections. Object catalogues were then generated from the field images using the SExtractor v.2.3.2 (Source Extractor) software package (Bertin & Arnouts 1996). SExtractor detects sources in an astronomical image, deblends them, measures them and classifies them as stars or galaxies. The star/galaxy classification is done by means of neural networks trained with simulated images.

SExtractor was designed with the view of being used for analysing large extragalactic surveys and to this end it is fast, has large image capability and it's ability to deblend overlapping objects and extract objects is required to be robust.

The analysis of an image follows the following steps :

1) Background and RMS (Root Mean Square) noise determination.

2) Subtraction of background.

3) Filtering of the image to "smooth" the image and improve signal to noise.

4) Thresholding is applied to isolate groups of connected pixels (image segmentation).

5) Detections are then deblended.

6) The shapes and positions of detections are measured (isophotal analysis).

7) Detections are "cleaned" to eliminate artifacts from bright sources in the image.

8) Photometry and astrometry are performed.

9) Star or galaxy classification carried out.

10) Catalogue is generated containing relevant output as specified by the user.

SExtractor makes use of a configuration file, used to specify input parameters, and a catalogue parameter file which lists the output parameters to be written to the catalogue. An example of the configuration file is shown in Figure 3.9.

For the Pavo and IRSF fields, the main parameters used were a 2.5σ detection threshold, a 2.5σ analysis threshold, the number of deblending sub-thresholds was 32 and the background filter size was 3 pixels (i.e. a square with sides equal to 3 pixels). The magnitude zeropoint and seeing was altered for each field and a Gaussian convolution filter chosen with a FWHM corresponding to the PSF (Point Spread Function) measured on the frame. All other parameters are as shown in Figure 3.8.

For the IRSF "A" and "B" fields there was far more contamination due to bright stars and the parameters were changed accordingly. For all these fields the number of deblending thresholds used was 50 and the background filter size used was 5 pixels. To prevent spurious detections due to artifacts from bright stars, several fields required a 3σ detection threshold and a 3σ analysis threshold and one field (afieldp0m1) required a 4σ detection and analysis threshold due to bad leakage in the array as a result of bright stars in the field.

The gain used was calculated as follows. The instrumental gain is $5e^-$ per ADU (Analog-to-Digital Unit) and as the pipeline combines dithered images by calculating the median, the effective gain is calculated using the following formula :

$$\text{Effective gain} = 2 \times \text{N} \times \text{gain} \; / \; 3$$

where N is the number of frames.

This gives you an effective gain of 33.3 e^-/ADU.

The Magnitude Zeropoint for images combined using the median is calculated using the formula :

$$\text{Magnitude Zeropoint} = \text{zeropoint} + 2.5 \log (\text{average exposure time})$$

where the zeropoint is the output from **phot**.

SExtractor was used in dual-image mode. This means that SExtractor detects objects in one band and then applies the same positions and apertures to the other bands to make measurements. This means that the numbering of the catalogues in different bands is the same. In this case the J image was used for detection and measurements made in the J, H and K_s images. For detected objects, isophotal magnitudes and aperture magnitudes were

```
# Configuration file for SExtractor 2.3b2
# EB 2003-02-07
#

#------------------------------- Catalog ------------------------------------

CATALOG_NAME     jpavo5.cat       # name of the output catalog
CATALOG_TYPE     ASCII_HEAD     # "NONE","ASCII_HEAD","ASCII","FITS_1.0"
                                # or "FITS_LDAC"

PARAMETERS_NAME config/pavosex.param  # name of the file containing catalog cont
ents

#------------------------------- Extraction ---------------------------------

DETECT_TYPE      CCD            # "CCD" or "PHOTO"
#FLAG_IMAGE      flag.fits       # filename for an input FLAG-image
DETECT_MINAREA    10            # minimum number of pixels above threshold
DETECT_THRESH     2.5           # <sigmas> or <threshold>,<ZP> in mag.arcsec-2
ANALYSIS_THRESH   2.5           # <sigmas> or <threshold>,<ZP> in mag.arcsec-2

FILTER           Y              # apply filter for detection ("Y" or "N")?
FILTER_NAME    config/gauss_3.0_5x5.conv     # name of the file containing the fi
lter

DEBLEND_NTHRESH  32             # Number of deblending sub-thresholds
DEBLEND_MINCONT 0.005           # Minimum contrast parameter for deblending

CLEAN            Y              # Clean spurious detections? (Y or N)?
CLEAN_PARAM      8.0           # Cleaning efficiency

MASK_TYPE        CORRECT        # type of detection MASKing: can be one of
                                # "NONE", "BLANK" nr "CORRECT"

#------------------------------ Photometry ----------------------------------

PHOT_APERTURES  28             # MAG_APER aperture diameter(s) in pixels
PHOT_AUTOPARAMS 2.5, 3.5        # MAG_AUTO parameters: <Kron_fact>,<min_radius>

SATUR_LEVEL   50000             # level (in ADUs) at which arises saturation

MAG_ZEROPOINT   24.682         # magnitude zero-point
MAG_GAMMA       4.0             # gamma of emulsion (for photographic scans)
GAIN            33.3            # detector gain in e-/ADU
PIXEL_SCALE     0.45            # size of pixel in arcsec (0=use FITS WCS info)

#------------------------- Star/Galaxy Separation ----------------------------

SEEING_FWHM     1.4             # stellar FWHM in arcsec
STARNNW_NAME    config/default.nnw     # Neural-Network_Weight table filename

#------------------------------ Background ----------------------------------

BACK_SIZE        50          # Background mesh: <size> or <width>,<height>
BACK_FILTERSIZE  3             # Background filter: <size> or <width>,<height>

BACKPHOTO_TYPE   LOCAL          # can be "GLOBAL" or "LOCAL"

#------------------------------ Check Image ---------------------------------

CHECKIMAGE_TYPE   APERTURES        # can be one of "NONE", "BACKGROUND",
                                # "MINIBACKGROUND", "-BACKGROUND", "OBJECTS",
                                # "-OBJECTS", "SEGMENTATION", "APERTURES",
                                # or "FILTERED"
CHECKIMAGE_NAME  check1.fits      # Filename for the check-image

#--------------------- Memory (change with caution!) -------------------------

MEMORY_OBJSTACK 2000            # number of objects in stack
MEMORY_PIXSTACK 200000          # number of pixels in stack
MEMORY_BUFSIZE  1024            # number of lines in buffer

#----------------------------- Miscellaneous ----------------------------------
```

```
VERBOSE_TYPE     NORMAL          # can be "QUIET", "NORMAL" or "FULL"
```

Figure 3.9: SExtractor Configuration File

calculated. For the isophotal magnitudes, the "ISO" option was used where SExtractor uses the estimated background as the zeropoint and the magnitude is determined using the counts in pixels above the threshold minus the background. The aperture magnitude was calculated using the "AUTO" option. Here SExtractor uses a flexible elliptical aperture around the object and determines the flux inside that area. Details of this method can be found in Kron (1980).

SExtractor has the ability to output maps it generates during the detection and measuring process as a "check image". The options available include various types of background maps (eg. full resolution, low resolution, background noise and background subtracted maps), object maps which show detected objects, segmentation maps that display the pixels corresponding to each object and an aperture map which shows the apertures around each object. APERTURES was chosen for the check image as this gives a good indication as to whether the threshold is correct and by blinking this image with the original, one can check the quality of the object detections.

SExtractor also calculates the geometric parameters of an object i.e. the shape and size of an object. This is done by determining the moments of an object and from these determining the elliptical parameters. The position angle gives the angle of the semi-major axis measured counterclockwise from North and the ellipticity is $1 - B\_Image/A\_Image$ where A_Image is the semi-major axis and B_Image is the semi-minor axis.

SExtractor also computes internal flags which are given as an integer obtained by adding the values for specific flags. The meaning of the flags are as follows:

1 : The MAG_AUTO photometry may be affected by neighbours of the object that are bright and in a close enough proximity. Alternatively bad pixels make up more than 10% of the integrated area.

2 : The object was originally blended with another one.

4 : At least one pixel of the object is saturated (or very close to being saturated).

8 : The object is too close to an image boundary.

16 : The object's aperture data is incomplete or corrupted.

32 : The object's isophotal data is incomplete or corrupted.

64 : A memory overflow occurred during deblending.

128 : A memory overflow occurred during extraction.

A very powerful output of SExtrector is the CLASS_STAR parameter which indicates whether SExtractor classifies the object as a star or a galaxy. This stellarity index can have a value between 0 and 1, where 0 is an extended source (i.e. interpreted as a galaxy) and 1 is a point source (i.e. a star). This classification is done by means of neural networks which make use of back propagation to learn to distinguish between stars and galaxies. This is done by using 600 simulated images with greater crowding than one expects in a target field. SExtractor has been shown to give reliable classifications when tested on simulated and real images (see Bertin & Arnouts 1996 for more details).

This determination is directly independent on the pixel scale and seeing FWHM of the stellar images, but is sensitive to the input values for the background mesh size and the analysis threshold.

3.2.7 Data Analysis

The first step was to take the magnitudes produced by SExtractor and correct them for atmospheric extinction. For each field an average airmass was calculated, multiplied by the airmass coefficient and subtracted from the magnitudes obtained.

From the catalogues produced, it was necessary to separate the galaxy detections from the stellar detections as determined by SExtractor, by using the stellar index value. Objects for which the stellarity index was greater than 0.9 in the J-band were considered to be stars and objects with stellar indices of less than 0.9 in the J-band were classified as galaxies.

Detections were therefore sorted into galaxy and star catalogues, using a fortran programme, and the resulting catalogues contain the positions, "AUTO" magnitudes (which corresponds to the aperture photometry) in all three bands, position angles, ellipticities and stellarity indices for each object.

The resulting galaxy catalogues are shown in Appendix A. Plots of the positions of the detected galaxies as well as known objects in the fields (from NED) are shown in Appendix B.

The next step in the analysis was to compare my detections to 2MASS[3] available sources in order to determine the reproducibility and reliability of the results. An initial comparison of the extended sources of 2MASS with my detections yielded few objects in common and the resolution of 2MASS was often too poor at such faint magnitudes to make a statistically reliable comparison. Examples of 2MASS extended sources compared to IRSF sources are shown in Appendix C.

Instead 2MASS point sources were used to analyse the SExtractor detections in terms

[3]This research has made use of the NASA/IPAC Infrared Science Archive (2MASS), which is operated by the Jet Propulsion Laboratory, Caltech, under contract with the National Aeronautics and Space Administration.

of photometric and positional accuracy. This was done by finding matching entries in the SExtractor catalogues and the 2MASS PSC (Point Source Catalogue) and determining the differences in magnitudes, Right Ascension and Declination by writing fortran programmes to make the calculations. All SExtractor detections that had corresponding 2MASS PSC entries were compared (not just ones with stellarity greater than 0.9). Statistics were calculated using the statistics package which forms part of the SuperMongo plotting software. The results of this analysis are summarised in the next chapter.

A final part of the analysis was to sort the galaxy detections into magnitude bins and determine the completeness and limiting magnitudes of our results. A fortran programme was written to sort the galaxy detections into bins of 0.5 magnitudes and the total size of each field was calculated in order to compare the various fields. The results of this analysis are shown in the next chapter.

Chapter 4

Results

4.1 Catalogues

Catalogues of galaxies as detected by SExtractor can be found in Appendix A.

The data obtained on 2 October 2003 showed large discrepancies when compared to 2MASS (see Section 4.3.1). The cirrus on this night has clearly affected the data obtained. This means that not only will the magnitudes obtained be inaccurate, as they will be too faint, but the star/galaxy classification will also be unreliable at the redshifts we are interested in. Hence the catalogues for the fields "Pavo m1p1" and "Pavo p0p1" fields are presented for completeness only. These detections are excluded from the magnitude bin calculations.

When comparing the results to 2MASS, it was also found that the H and K_s magnitudes of "A Field m1p1" showed large offsets and a large scatter. Looking back at the observing log showed that high humidity interrupted observations. It was found that for many points the H and K_s magnitudes were much brighter than the corresponding J magnitudes. Since the H and K_s bands are far more sensitive to high humidity, this effect may be due to a particularly poor set of frames with high background humidity, which has caused the data to become corrupted when it was combined in the pipeline. This field is therefore excluded from the photometric accuracy analysis (Section 4.3.1), but is included in Appendix A for completeness.

4.2 Plots of SExtractor detected galaxies

Plots of the positions of the galaxies detected, can be found in Appendix B. A sample of pictures of individual fields is also included.

4.3 Comparison to 2MASS Point Sources

The following section outlines the comparison between SExtractor detections and 2MASS point sources.

4.3.1 Photometric Comparison

The resulting offsets in J, H and K_s magnitudes for all fields are shown in Tables 4.1, 4.2 and 4.3 respectively. The residuals are calculated as 2MASS - IRSF. As can be seen, the magnitudes for the "Pavo m1p1" and "Pavo p0p1" fields are between 0.6 and 0.8 fainter compared to 2MASS in all three bands. This offset in all three bands despite the good seeing on that night (October 2), confirms the presence of faint cirrus and these fields are therefore excluded from Figures 4.1-4.3.

Table 4.1: Details of J Magnitude offsets in relation to 2MASS objects

Field	Mean (Δ m)	σ	Error ($\sigma/\sqrt{N}$)	Number of stars compared
Pavo m1p0	-0.0030	0.1562	0.0225	48
Pavo p0p0	-0.0421	0.0831	0.0125	44
Pavo p1p0	-0.0709	0.1950	0.0248	62
Pavo p0m1	-0.0151	0.1847	0.0269	47
Pavo p1m1	-0.0449	0.2230	0.0303	54
Pavo p1p1	-0.0399	0.1671	0.0221	57
Pavo p2p0	-0.1470	0.2058	0.0275	56
Pavo p2p1	-0.1366	0.1780	0.0246	52
Pavo m1p1*	-0.6785	0.1854	0.0234	63
Pavo p0p1*	-0.6193	0.2295	0.0296	60
IRSF p0p0	-0.0574	0.2557	0.0432	35
IRSF p1p0	-0.0231	0.2003	0.0409	24
IRSF m1p1	-0.1025	0.1714	0.0308	31
IRSF p0p1	-0.0279	0.0781	0.0136	33
IRSF p1p1	-0.0380	0.2581	0.0479	29
A Field p1p0	0.0134	0.1170	0.0110	113
A Field p0p0	0.0130	0.2282	0.0218	110
A Field m1p0	0.0199	0.1209	0.0099	148
A Field p1p1	-0.1158	0.2277	0.0176	168
A Field p0p1	-0.0703	0.2424	0.0200	147
A Field m1p1**	-0.0483	0.1915	0.0151	161
A Field p1m1	-0.0472	0.2294	0.0179	165
A Field p0m1	-0.0105	0.2403	0.0210	131
A Field m1m1	-0.0381	0.1897	0.0156	148
B Field p1p0	-0.0096	0.2088	0.0229	83
B Field p0p0	-0.0889	0.1898	0.0196	94
B Field p1p1	-0.0102	0.1165	0.0126	85
B Field p0p1	-0.0068	0.1349	0.0130	108
B Field m1p1	-0.00030	0.1488	0.0148	101

* poor night (cirrus)

** unreliable (humidity)

Table 4.2: Details of H Magnitude offsets in relation to 2MASS objects

Field	Mean (Δ m)	σ	Error ($\sigma/\sqrt{N}$)	Number of stars compared
Pavo m1p0	-0.0653	0.1541	0.0222	48
Pavo p0p0	-0.0498	0.1295	0.0195	44
Pavo p1p0	-0.1005	0.2446	0.0311	62
Pavo p0m1	-0.0195	0.1983	0.0289	47
Pavo p1m1	-0.0318	0.3094	0.0421	54
Pavo p1p1	-0.1087	0.2035	0.0269	57
Pavo p2p0	-0.1867	0.1746	0.0233	56
Pavo p2p1	-0.2257	0.2193	0.0304	52
Pavo m1p1*	-0.7218	0.2081	0.0262	63
Pavo p0p1*	-0.6207	0.2420	0.0312	60
IRSF p0p0	-0.0865	0.2539	0.0429	35
IRSF p1p0	-0.0858	0.2303	0.0470	24
IRSF m1p1	-0.1997	0.2754	0.0495	31
IRSF p0p1	-0.0761	0.1354	0.0236	33
IRSF p1p1	-0.0594	0.3685	0.0684	29
A Field p1p0	0.0550	0.1747	0.0164	113
A Field p0p0	0.0268	0.2617	0.0250	110
A Field m1p0	0.0321	0.1787	0.0147	148
A Field p1p1	-0.1274	0.2522	0.0194	168
A Field p0p1	-0.1647	0.2712	0.0224	147
A Field m1p1**	-1.073	2.1003	0.1655	161
A Field p1m1	-0.0680	0.2466	0.0192	165
A Field p0m1	-0.0508	0.2757	0.0241	131
A Field m1m1	-0.0397	0.1961	0.0161	148
B Field p1p0	-0.0940	0.2496	0.0274	83
B Field p0p0	-0.1104	0.2069	0.0213	94
B Field p1p1	-0.0535	0.2235	0.0242	85
B Field p0p1	-0.0686	0.1642	0.0158	108
B Field m1p1	-0.0510	0.1609	0.0160	101

* poor night (cirrus)
** unreliable (humidity)

The H and K_s magnitudes for "A Field m1p1" show a large scatter and big offset. As noted earlier it was found that many points had a brighter H and K_s magnitudes compared to the J magnitudes. Looking back at the observing log, we see that on this night (March 5), observations had to be stopped due to high humidity. It seems that high humidity in some of the raw frames has adversely affected the final combined image and this field was thus excluded from the photometric comparison to 2MASS. It is excluded from Figures 4.7-4.9. It can also be noted that "A Field p1p1" and "A Field p0p1" were re-observed on March 7 with similar bad seeing and partly cloudy conditions. The quality of this data was too poor to be able to do any analysis and was disregarded.

The H and Ks magnitudes for "A Field p1p1" and "A Field p0p1" do show a greater

offset and scatter compared to the other fields. It should be noted that this data was obtained on the same night as "A Field m1p1" when the seeing was poor and the humidity increased during the night. These fields were retained, however, as the offset was within 2σ of the data and so deemed acceptable.

Table 4.3: Details of K_s Magnitude offsets in relation to 2MASS point sources

Field	Mean (Δ m)	σ	Error ($\sigma/\sqrt{N}$)	Number of stars compared
Pavo m1p0	-0.0477	0.3576	0.0516	48
Pavo p0p0	-0.2261	0.2600	0.0392	44
Pavo p1p0	-0.1261	0.3170	0.0403	62
Pavo p0m1	-0.0600	0.2870	0.0419	47
Pavo p1m1	-0.0355	0.3567	0.0485	54
Pavo p1p1	-0.1886	0.2455	0.0325	57
Pavo p2p0	-0.4131	0.3356	0.0448	56
Pavo p2p1	-0.5042	0.3359	0.0494	52
Pavo m1p1*	-0.7750	0.2249	0.0283	63
Pavo p0p1*	-0.6658	0.2755	0.0356	60
IRSF p0p0	-0.1125	0.2902	0.0491	35
IRSF p1p0	-0.1247	0.2635	0.0538	24
IRSF m1p1	-0.1167	0.3931	0.0706	31
IRSF p0p1	-0.1062	0.3083	0.0537	33
IRSF p1p1	-0.1723	0.3557	0.0661	29
A Field p1p0	-0.0627	0.2580	0.0243	113
A Field p0p0	-0.1196	0.3057	0.0291	110
A Field m1p0	-0.1046	0.3004	0.0246	148
A Field p1p1	-0.4322	0.4849	0.0374	168
A Field p0p1	-0.4424	0.4292	0.0353	147
A Field m1p1**	-1.6780	2.1905	0.1726	161
A Field p1m1	-0.1435	0.3710	0.0289	165
A Field p0m1	-0.1469	0.3740	0.0326	131
A Field m1m1	-0.1777	0.3406	0.0280	148
B Field p1p0	-0.0751	0.3439	0.0377	83
B Field p0p0	-0.1934	0.3625	0.0373	94
B Field p1p1	-0.0941	0.3243	0.0352	85
B Field p0p1	-0.1461	0.3890	0.0374	108
B Field m1p1	-0.1744	0.3197	0.0318	101

* poor night (cirrus)
** unreliable (humidity)

Comparison between the J, H and K_s magnitudes of 2MASS and the combined Pavo fields are shown in Figures 4.1, 4.2 and 4.3 respectively. "Pavo m1p1" and "Pavo p0p1" have been excluded from the plots in these figures (see Tables 4.1-4.3). As expected the scatter increases with increasing magnitude, but shows good correlation within the limiting magnitudes of 2MASS (i.e. 16.5 in J, 15.8 in H and 15.0 in K_s).

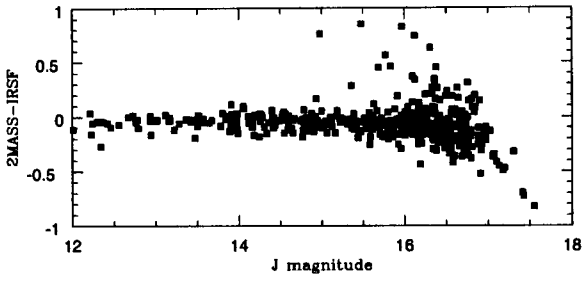

Figure 4.1: Comparison between the measured J magnitudes of objects in common with the 2MASS Point Source Catalogue for the Pavo Field.

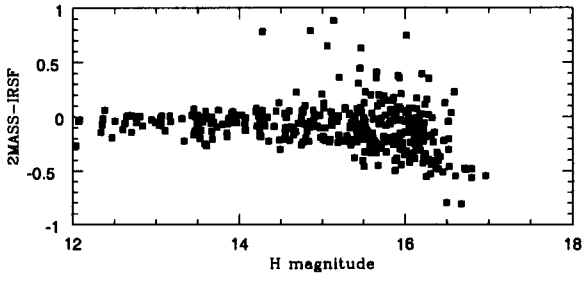

Figure 4.2: Comparison between the measured H magnitudes of objects in common with the 2MASS Point Source Catalogue for the Pavo Field.

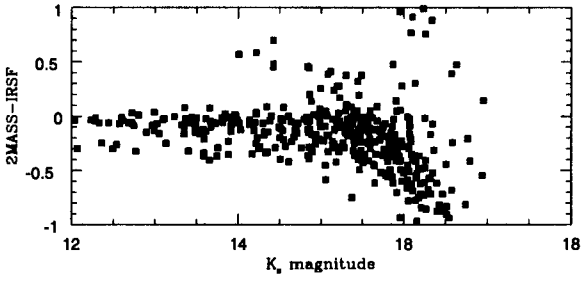

Figure 4.3: Comparison between the measured K_s magnitudes of objects in common with the 2MASS Point Source Catalogue for the Pavo Field.

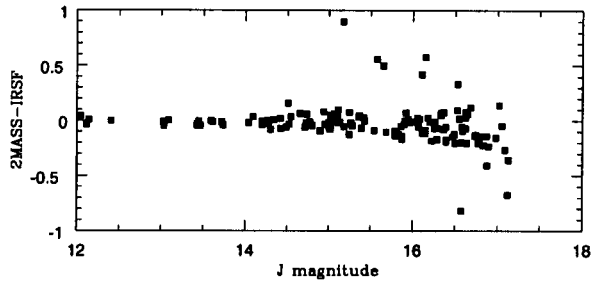

Figure 4.4: Comparison between the measured J magnitudes of objects in common with the 2MASS Point Source Catalogue for the IRSF Deep Field.

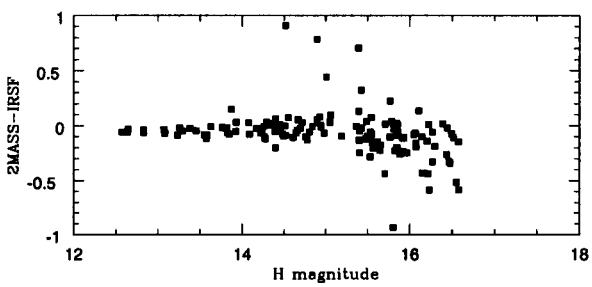

Figure 4.5: Comparison between the measured H magnitudes of objects in common with the 2MASS Point Source Catalogue for the IRSF Deep Field.

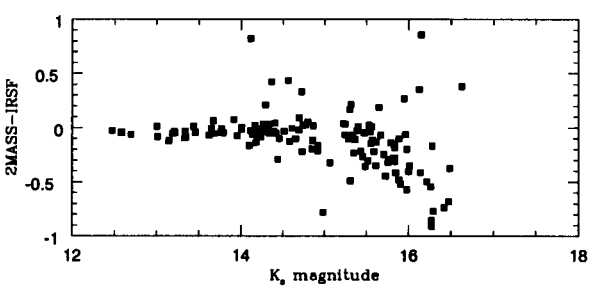

Figure 4.6: Comparison between the measured K_s magnitudes of objects in common with the 2MASS Point Source Catalogue for the IRSF Deep Field.

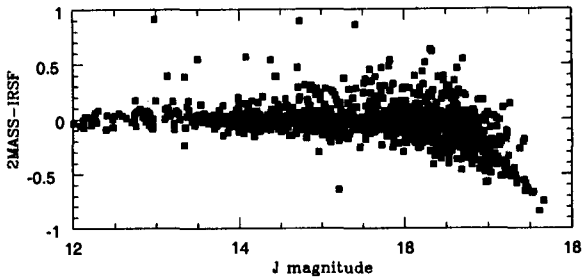

Figure 4.7: Comparison between the measured J magnitudes of objects in common with the 2MASS Point Source Catalogue for the A Field.

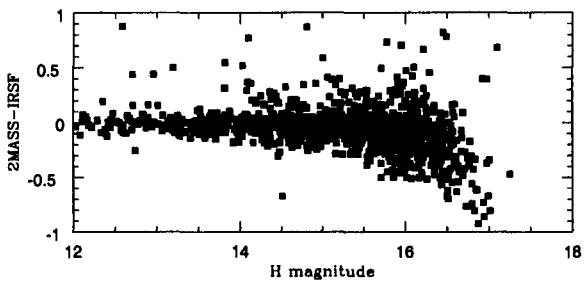

Figure 4.8: Comparison between the measured H magnitudes of objects in common with the 2MASS Point Source Catalogue for the A Field.

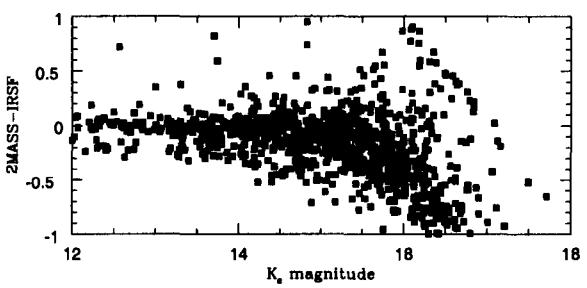

Figure 4.9: Comparison between the measured K_s magnitudes of objects in common with the 2MASS Point Source Catalogue for the A Field.

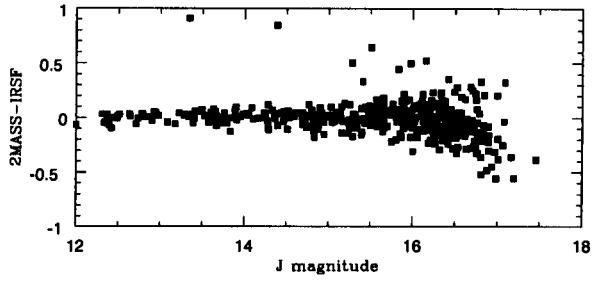

Figure 4.10: Comparison between the measured J magnitudes of objects in common with the 2MASS Point Source Catalogue for the B Field.

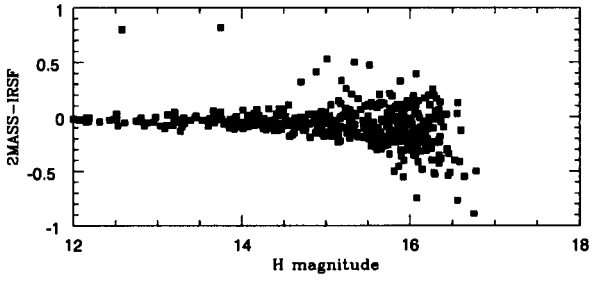

Figure 4.11: Comparison between the measured H magnitudes of objects in common with the 2MASS Point Source Catalogue for the B Field.

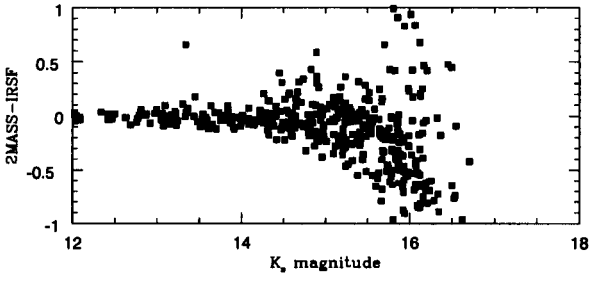

Figure 4.12: Comparison between the measured K_s magnitudes of objects in common with the 2MASS Point Source Catalogue for the B Field.

In Figures 4.4, 4.5 and 4.6 we see the correlation between the J, H and K_s magnitudes respectively of 2MASS and the combined IRSF fields. They show a good correlation to 2MASS corresponding to its limiting magnitudes.

The "A" Field region contained many more objects in common compared to the Pavo and IRSF regions as can be seen in the plots for the J, H and K_s magnitudes shown in Figures 4.7, 4.8 and 4.9. "A Field m1p1" was excluded from the plots shown in Figures 4.7-4.9 (see Tables 4.1-4.3). Both the "A" Field and "B" Field regions contained far more stars compared to Pavo and IRSF and this does hamper work at very faint magnitudes. The K_s magnitudes here show a greater scatter compared to the corresponding J and H magnitudes.

The comparison between 2MASS and the combined "B" Fields is shown in Figures 4.10, 4.11 and 4.12. A tight correlation with 2MASS can be seen with increased scatter beyond the limiting magnitudes of 2MASS.

A summary of the offsets for the combined fields is shown in Table 4.4.

Table 4.4: Details of Magnitude offsets for the combined fields compared to 2MASS

Field	Band	Mean (Δ m)	σ	Error ($\sigma/\sqrt{N}$)	Number of stars compared
Pavo	J	-0.0646	0.1861	0.0091	420
	H	-0.1014	0.2228	0.0109	
	K_s	-0.2021	0.3551	0.0173	
IRSF	J	-0.0511	0.2028	0.0164	152
	H	-0.1020	0.2632	0.0213	
	K_s	-0.1253	0.3231	0.0262	
A Field	J	-0.0342	0.2112	0.0062	1130
	H	-0.0737	0.2398	0.0071	
	K_s	-0.2147	0.3965	0.0118	
B Field	J	-0.0229	0.1647	0.0076	471
	H	-0.0749	0.2011	0.0093	
	K_s	-0.1397	0.3516	0.0162	

Closer inspection of all the magnitude plots reveals a downward slope as one moves to fainter magnitudes. This is particularly obvious in the Ks band and where there are more data points, such as found in the "A" field and "B" field plots.

This indicates that the IRSF SExtractor detections are fainter compared to the 2MASS detections. This is in all likelihood due to the better resolution obtained by the IRSF at faint magnitudes, which results in a more reliable magnitude being calculated by the software. This effect is illustrated in Appendix C by comparing some 2MASS Extended Sources to their SExtractor counterparts.

In order to investigate this effect still further, offset values were calculated for brighter magnitudes (<16mag in J and H and <15mag in K_s) in order to eliminate selection effects.

The results were as follows:

	Pavo Field	IRSF Deep Field	A Field	B Field
J offset	-0.0392	-0.0325	0.0090	0.0117
H offset	-0.0619	-0.0778	-0.0273	-0.0412
K_s offset	-0.1057	-0.0906	-0.0745	-0.0176

As can be seen, the offsets are now very small and even though the K_s band offsets are still larger than the other bands, they have improved the most. This is almost certainly due to the improved resolution of the IRSF compared to 2MASS, resulting in a greater limiting magnitude (see Table 3.6).

4.3.2 Positional Comparison

The offsets in Right Ascension and Declination for individual fields are shown in Table 4.5 and 4.6 respectively.

Table 4.5: Details of Right Ascension offsets in relation to 2MASS point sources

Field	Mean Δ RA (arcsec)	σ	Error $(\sigma/\sqrt{N})$	Number of stars compared
Pavo m1p0	0.1022	0.1816	0.0262	48
Pavo p0p0	0.0279	0.2966	0.0447	44
Pavo p1p0	0.0786	0.2136	0.0271	62
Pavo p0m1	0.1980	0.1716	0.0250	47
Pavo p1m1	-0.0279	0.2297	0.0312	54
Pavo p1p1	-0.1306	0.3296	0.0437	57
Pavo p2p0	0.2465	0.3310	0.0442	56
Pavo p2p1	0.0565	0.1886	0.0262	52
Pavo m1p1	0.3589	0.2948	0.0371	63
Pavo p0p1	-0.0284	0.2837	0.0366	60
IRSF p0p0	0.0981	0.2314	0.0391	35
IRSF p1p0	0.0342	0.1291	0.0264	24
IRSF m1p1	0.0316	0.4022	0.0722	31
IRSF p0p1	0.3372	0.4006	0.0697	33
IRSF p1p1	-0.0651	0.4031	0.0749	29
A Field p1p0*	-1.1347	0.4146	0.0390	113
A Field p0p0*	-1.3559	0.3525	0.0336	110
A Field m1p0*	-1.0149	0.3466	0.0285	148
A Field p1p1*	-1.0561	0.3080	0.0238	168
A Field p0p1*	-1.0747	0.2249	0.0185	147
A Field m1p1*	-0.9377	0.2798	0.0221	161
A Field p1m1*	-1.0631	0.2868	0.0223	165
A Field p0m1*	-1.229	0.4209	0.0368	131
A Field m1m1*	-0.9646	0.3258	0.0268	148
B Field p1p0	0.7786	0.6389	0.0701	83
B Field p0p0	0.5500	0.3055	0.0315	94
B Field p1p1	0.6219	0.2542	0.0276	85
B Field p0p1	0.3681	0.3013	0.0290	108
B Field m1p1	0.0492	0.2238	0.0223	101

* large offset

The offsets of the fields "Pavo m1p1", "Pavo p0p1" and "A Field m1p1" are included in Tables 4.5 and 4.6 for completeness. These fields were excluded from the photometric comparison for reasons discussed in Section 4.3.1. Even though the seeing was not particularly bad for these fields, in fact for the Pavo fields the seeing was very good and hence should not affect the accurate position determination, they were excluded from the positional analysis. This was done as it is plausible that during those observations the cirrus and humidity could have worsened to such an extent that the seeing would have been affected. Hence the same points are compared in the positional analysis as in the

Table 4.6: Details of Declination offsets in relation to 2MASS point sources

Field	Mean Δ Dec (arcsec)	σ	Error ($\sigma/\sqrt{N}$)	Number of stars compared
Pavo m1p0	-0.0280	0.2164	0.0312	48
Pavo p0p0	0.1731	0.2518	0.0380	44
Pavo p1p0	0.2031	0.1487	0.0189	62
Pavo p0m1	0.2334	0.2139	0.0312	47
Pavo p1m1	0.1780	0.1877	0.0255	54
Pavo p1p1	0.1607	0.2709	0.0359	57
Pavo p2p0	-0.2101	0.2373	0.0317	56
Pavo p2p1	0.1440	0.2017	0.0280	52
Pavo m1p1	0.0700	0.1741	0.0219	63
Pavo p0p1	0.2436	0.2385	0.0308	60
IRSF p0p0	0.1041	0.2040	0.0345	35
IRSF p1p0	0.0945	0.1172	0.0239	24
IRSF m1p1	0.2416	0.3450	0.0620	31
IRSF p0p1	0.3055	0.4349	0.0757	33
IRSF p1p1	0.0290	0.1169	0.0217	29
A Field p1p0	-0.0766	0.2327	0.0219	113
A Field p0p0	0.0203	0.6137	0.0585	110
A Field m1p0	0.2841	0.3190	0.0262	148
A Field p1p1	0.1004	0.4172	0.0322	168
A Field p0p1	-0.1548	0.7568	0.0624	147
A Field m1p1	0.1576	0.3103	0.0245	161
A Field p1m1	0.1060	0.3586	0.0279	165
A Field p0m1	0.0245	0.4469	0.0390	131
A Field m1m1	0.3050	0.2691	0.0221	148
B Field p1p0	0.8979	0.5301	0.0582	83
B Field p0p0	0.6758	0.3196	0.0330	94
B Field p1p1	0.6270	0.2446	0.0265	85
B Field p0p1	0.6361	0.2728	0.0263	108
B Field m1p1	0.7247	0.6045	0.0601	101

photometric analysis and form a complete set.

Comparison between the Right Ascension and Declination of 2MASS sources and those detected by SExtractor for the Pavo field are shown in Figure 4.13. The Pavo Field shows an offset of about 0.07″ in Right Ascension and 0.1″ in Declination with a scatter of approximately 0.3″ for both.

For the IRSF Deep Field (Control Field), the Right Ascension and Declination comparison is shown in Figure 4.14. The combined subfields show an offset of 0.16″ in Declination with a σ of 0.3″, whereas the Right Ascension has a smaller offset (0.1″), but a larger scatter (0.4″).

The "A" Field positional comparison is very intriguing as individual fields show an offset of $\approx$ -1″ in Right Ascension which results in an overall offset of -1.1″ with a σ of 0.4″. In Declination the overall offset is only 0.08″, but with a σ of $\approx$ 0.5. Plots of Right

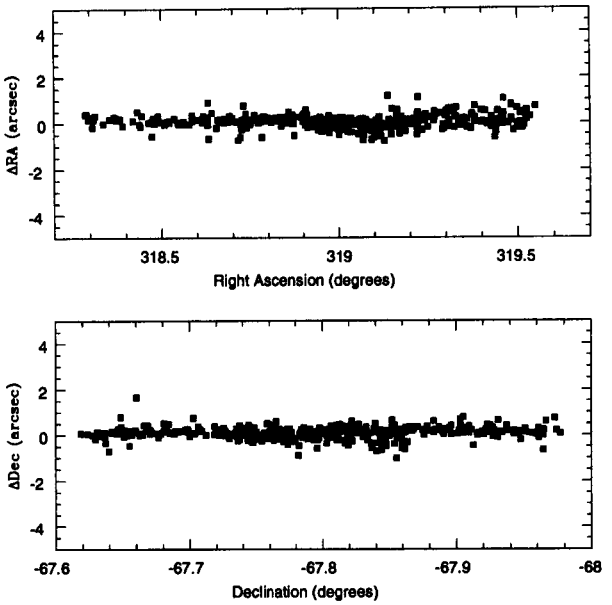

Figure 4.13: Positional comparison of stars in common with 2MASS for the Pavo Field; the upper panel is Right Ascension, the lower panel Declination.

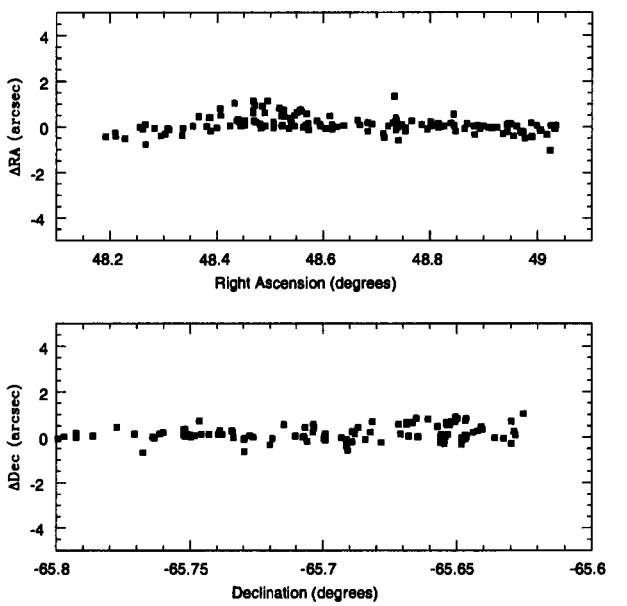

Figure 4.14: Positional comparison of stars in common with 2MASS for the IRSF Field; the upper panel is Right Ascension, the lower panel Declination.

Table 4.7: Details of Right Ascension and Declination offsets for the combined fields compared to 2MASS

Field	RA/Dec	Mean offset (arcsec)	σ	Error ($\sigma/\sqrt{N}$)	Number of stars compared
Pavo	RA	0.0669	0.2750	0.0134	420
	Dec	0.1056	0.2588	0.0126	
IRSF	RA	0.0953	0.3606	0.0292	152
	Dec	0.1600	0.2974	0.0241	
A Field	RA	-1.099*	0.3519	0.0105	1130
	Dec	0.0846	0.4780	0.0142	
B Field	RA	0.4542	0.4416	0.0209	471
	Dec	0.6998*	0.3916	0.0180	

* large offset

Ascension and Declination are shown in Figure 4.15.

The results for the "B" Field are shown in Figure 4.16. Individual fields show slightly larger offsets in Right Ascension compared to the IRSF Deep and Pavo fields with an overall offset of $0.5''$. By comparison, the offset for the Declination is $0.7''$ with a σ of $0.4''$. So here we have a larger offset in Declination compared to the other fields.

Table 4.7 summarises the offsets for the combined fields.

As can be seen, the only large offsets are found in the Right Ascension of the "A" Field and the Declination of the "B" Field. Is there a possible explanation?

Vandame et al. (2001) conducted an infrared imaging survey for the Chandra Deep South and find an offset of $\approx 0.33''$ in Right Ascension with a scatter of $\leq 0.23''$. They note an increase of Right Ascension residuals near the eastern edge of the region which they say may be due to a large offset of the target field relative to the GSC-II plate used for object extraction.

Kraan-Korteweg & Jarrett (2004) discovered positional offsets between 2MASS Extended sources and optical catalogues in the Zone of Avoidance (ZOA). When plotting the offsets between the optical ZOA surveys and 2MASS they found a dependence of the RA-offset as a function of RA whereas there was no significant trend in Declination. The σ in both cases was found to be of the order of $1''$. In some areas the offsets in RA were between and $1''$ and $1''.5$ which is comparable to the σ. They found this effect to be limited between 10h-14h, but particularly significant for 15h-18h. Inspection of their plots reveal data points where our "A" Field Right Ascension offsets are located. Despite not finding an overall significant offset trend in Declination, they do also have points where our "B" Field Declination offset is found. Of course, they are looking at the ZOA and comparing over 5000 positions spread over Right Ascension and Declination, but it is interesting that

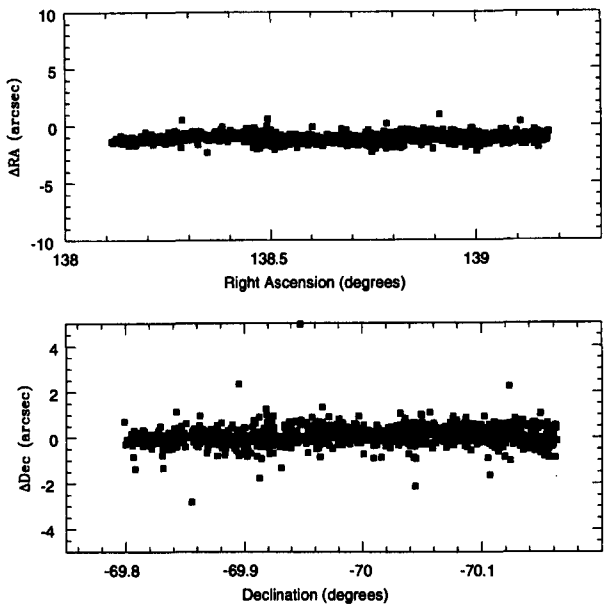

Figure 4.15: Positional comparison of stars in common with 2MASS for the A Field; the upper panel is Right Ascension, the lower panel Declination.

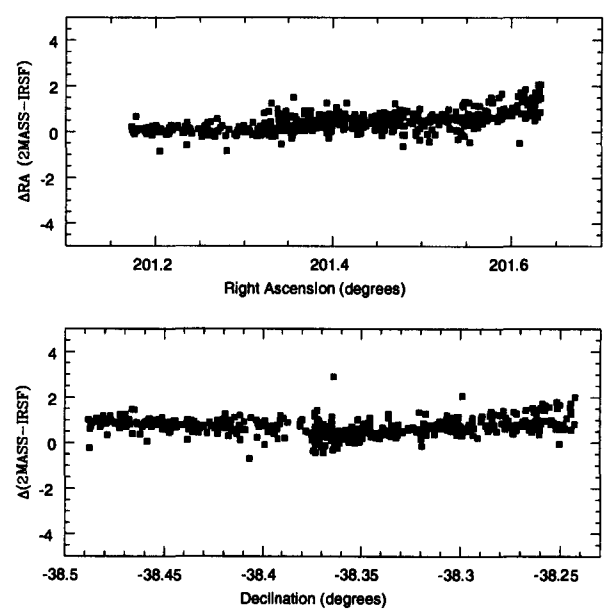

Figure 4.16: Positional comparison of stars in common with 2MASS for the B Field; the upper panel is Right Ascension, the lower panel Declination.

such differences should exist.

To try and understand their results, Kraan-Korteweg & Jarrett (2004) compared the 2MASS extended sources to other galaxy catalogues and found differences between 2MASS and other optical galaxy positions. These differences vary from one catalogue to another and the offsets in RA and Dec are much larger in the Southern Hemisphere compared to the Northern Hemisphere catalogues. The only catalogue that compared well to 2MASS was the FIRST Survey of radio sources. Both 2MASS and FIRST claim very accurate astrometry with 2MASS rms uncertainty $< 0.''3$ and FIRST positional accuracy of $< 1''$ at the 90% confidence level.

Kraan-Korteweg & Jarrett (2004) suggest that possible reasons for the discrepancies may lie in the different astrometric reference frames with which galaxy catalogues are calibrated, as well as the software used on digitised sky surveys. In particular, the GSC is made from digitised sky surveys and images and the fitting algorithms used and pixel size limit the positional accuracy that can be obtained. To determine whether this effect is inherent in other optical catalogues requires further investigation, but they maintain that as long as digitised sky survey images are used for position measurements, the offsets will remain as they originate in the old astrometric star catalogues. They also point out that the rms uncertainty will remain between $1''$ and $1''.5$ due to the pixel size of the scanning machine that produced the digitised images.

It seems then that using the GSC-II for an astrometric solution has possibly caused the discrepancy between some 2MASS and IRSF+SExtractor positions. This will need to be taken into account before accurate spectroscopy can be done and in future I believe some caution needs to be exercised when using optical positions determined by digitised sky surveys, particularly when working in the infrared.

4.4 Limiting Magnitudes and Completeness

The size of each field covered was calculated and is summarised in Table 4.8 In order to compare the richness of the fields observed, the galaxy detections have been divided into magnitude bins of 0.5 magnitudes and the number of galaxies in each bin normalised according to the area of each field that was covered. Fields excluded in Section 4.3.1 ("Pavo m1p1", "Pavo p0p1" and "A Field m1p1") were not included in the magnitude bin plots and also thus excluded from the total areas of the target regions. The magnitude bins for J, H and K_s for each field are shown in Figures 4.17 to 4.20. The cumulative galaxy counts per square degree are shown in Figures 4.21 to 4.24.

The limiting magnitudes for each field was estimated from the magnitude bin plots and is summarised in Table 4.9.

Table 4.8: Calculated areas for each field

Field	Number of constituent fields	Total Area (Square degrees)
IRSF	5	0.282
Pavo	7	0.270
A Field	8	0.599
B Field	5	0.168

Table 4.9: Limiting magnitudes for each field

Field	J	H	K_s
IRSF	20.5	20.5	21
Pavo	20.5	20.5	21.5
A Field	20	20	20.5
B Field	20.5	21	22

As can be seen from the magnitude bin plots, the control field IRSF (Figure 4.17) has the least number of galaxies per square degree (per 0.5 magnitude). The "A" Field (Figure 4.19) has a galaxy distribution less rich, but comparable to the Pavo field (Figure 4.18). The Pavo field has just more than twice the number of galaxies per square degree compared to the IRSF control field. The "B" Field has even more galaxies in comparison and this is particularly encouraging as the 5 fields obtained in this region cover a smaller area in square degree compared to the other fields as it was not as far south in the sky. This region was chosen due to the large number of x-ray and radio sources detected here.

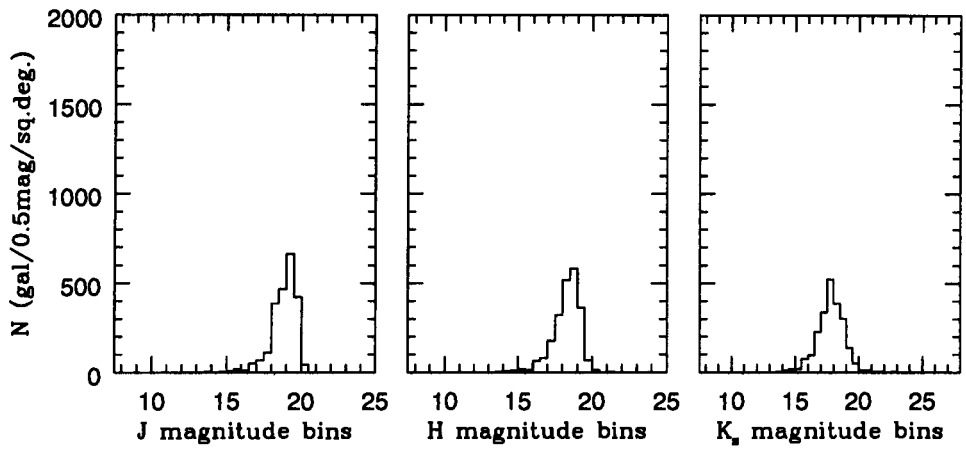

Figure 4.17: Galaxy number counts for the control field IRSF.

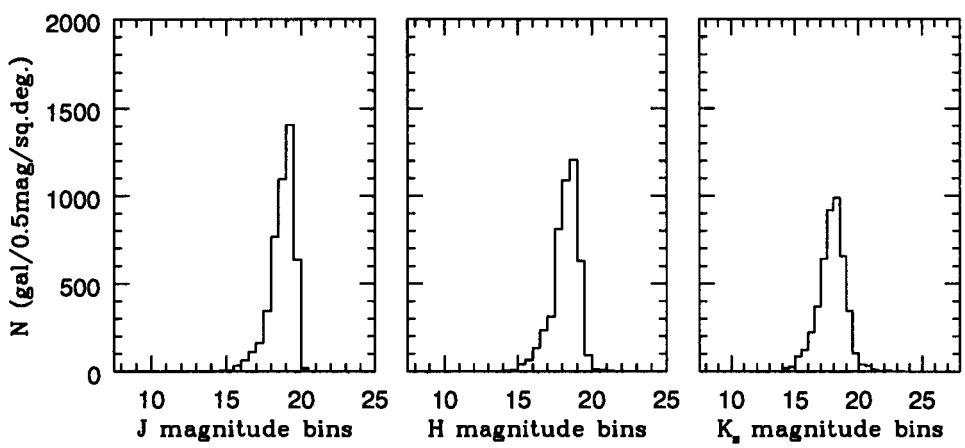

Figure 4.18: Galaxy number counts for the Pavo field.

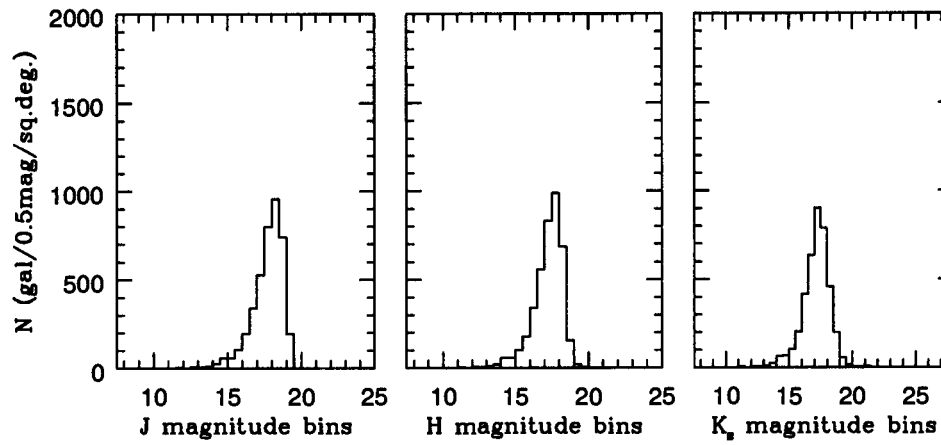

Figure 4.19: Galaxy number counts for the A field.

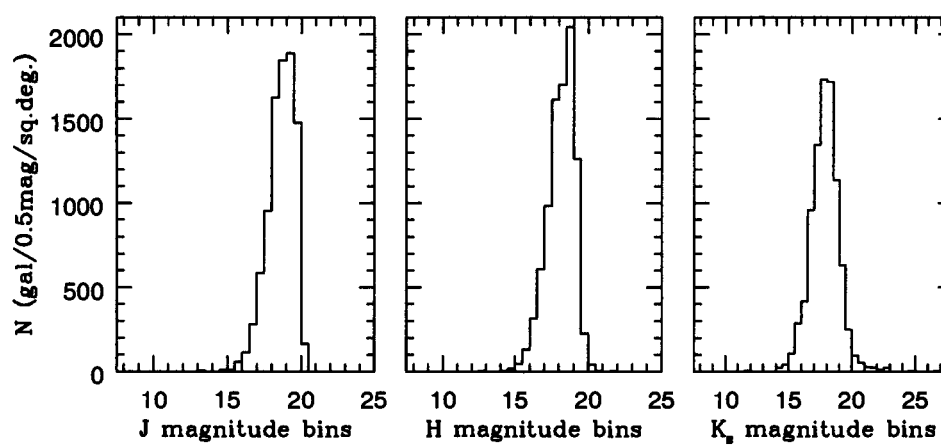

Figure 4.20: Galaxy number counts for the B field.

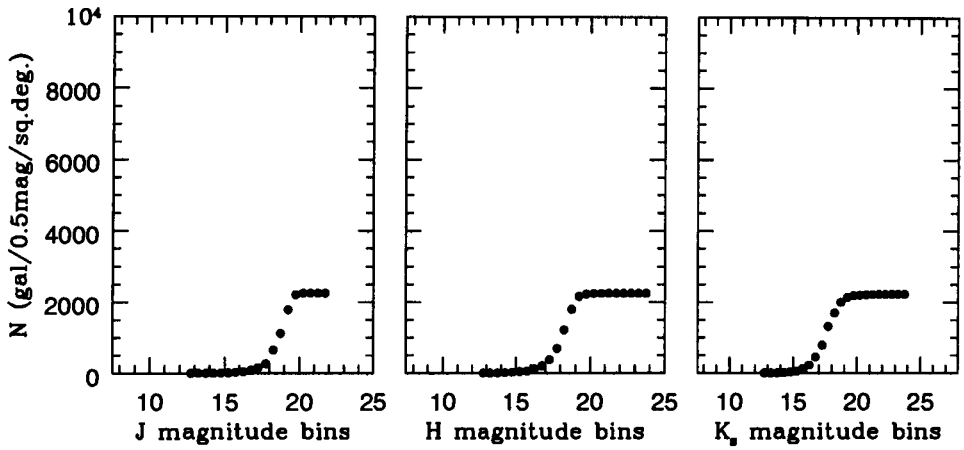

Figure 4.21: Cumulative galaxy numbercounts for the control field IRSF.

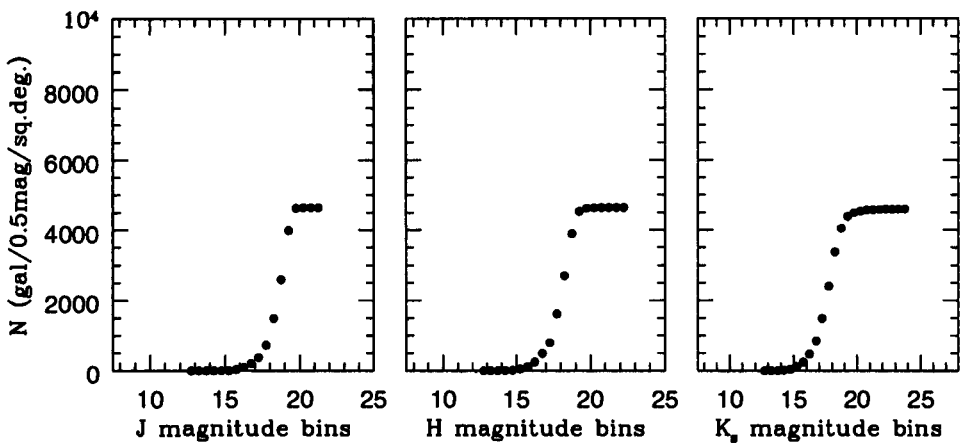

Figure 4.22: Cumulative galaxy number counts for the Pavo field.

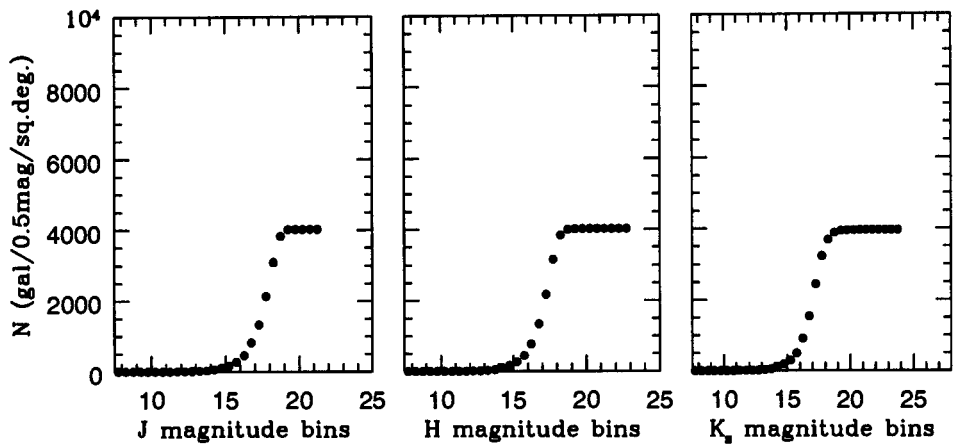

Figure 4.23: Cumulative galaxy number counts for the A field.

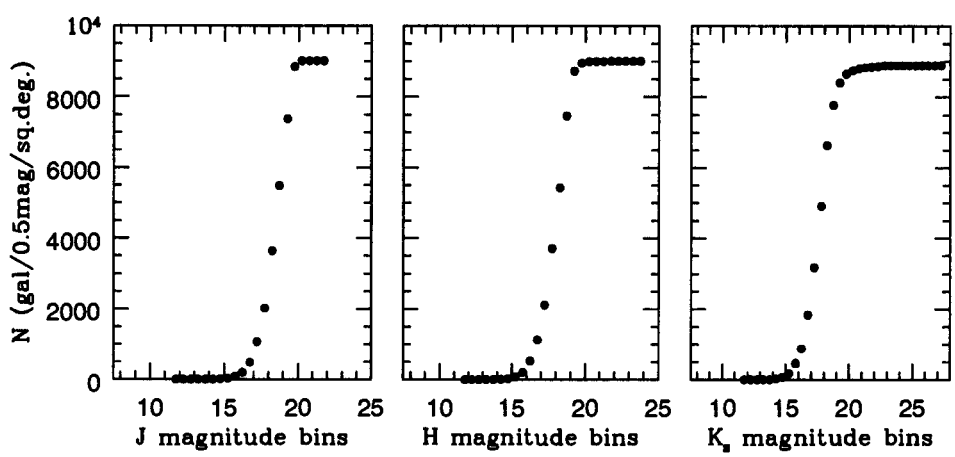

Figure 4.24: Cumulative galaxy number counts for the B field.

In order to estimate the completeness limits for each field, it is necessary to use a logN-logS plot where log of the number of galaxies per square degree is plotted against magnitude (or flux). The completeness limit is defined to be the magnitude where the counts obtained deviate from a Euclidean slope of 4 per magnitude. In order to estimate this limit, I plotted log N versus magnitude and overplotted the slope of 4 per magnitude to see where the deviation occurs. These plots are shown in Figures 4.25 to 4.28. The estimated completeness limits are shown in Table 4.10. As can be seen, the completeness limit for the "A" field is lower compared to the other fields which was expected as the seeing was far poorer on average for this field. The number of galaxies less than the completeness limit, per square degree, is shown in Table 4.11 and the number of galaxies greater than the completeness limit, per square degree, is shown in Table 4.12.

Table 4.10: Completeness limits for each field

Field	J	H	K_s
IRSF	18.5	18	17.5
Pavo	18.5	18	17.5
A Field	17.5	17	17
B Field	18.5	18	17.5

Table 4.11: Number of galaxies per square degree with magnitudes brighter than the completeness limit of each field

Field	J	H	K_s
IRSF	686	698	787
Pavo	1489	1607	1485
A Field	1341	1341	1540
B Field	3643	3726	3184

From Table 4.11 we can see that the "A" and Pavo fields seem to be of comparable richness being approximately twice as rich as the IRSF control field. Again we notice a far higher galaxy count per square degree for the "B" field compared to the other fields and conclude that this is the richest of all the target regions.

Comparing the number of galaxies per square degree less than and greater than the completeness limits (Tables 4.11 and 4.12), we see that beyond their completeness limits the Pavo and "A" fields are again comparable in richness. The "B" field is now approximately 3.5 times richer than the IRSF deep field (control field).

A further comparison can be done by looking at the number of galaxies down to the same completeness limit (i.e. the completeness of the "A" field). This is done in Table 4.13.

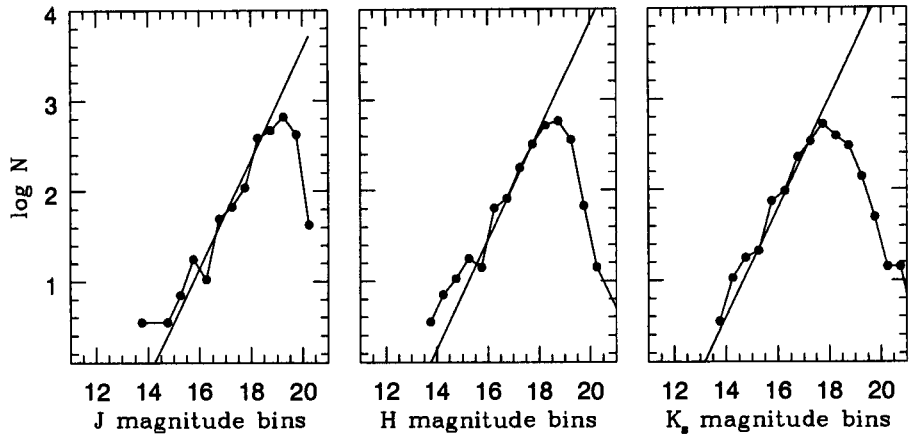

Figure 4.25: log N-log S plot for the IRSF control field.

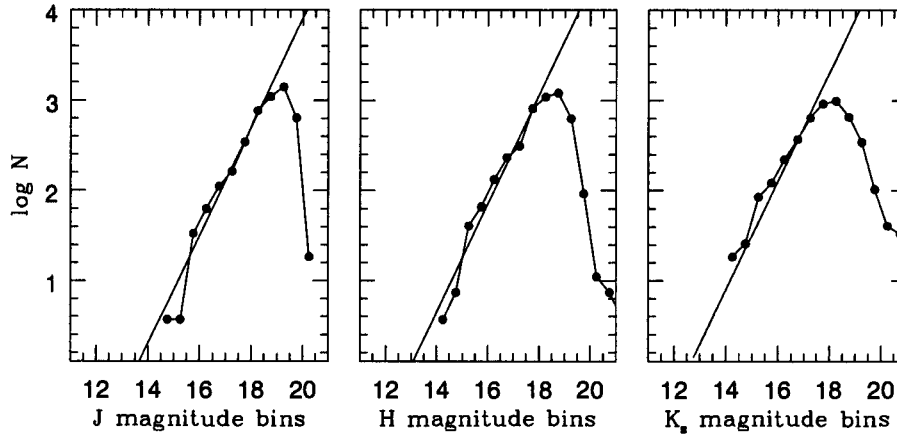

Figure 4.26: log N-log S plot for the Pavo field.

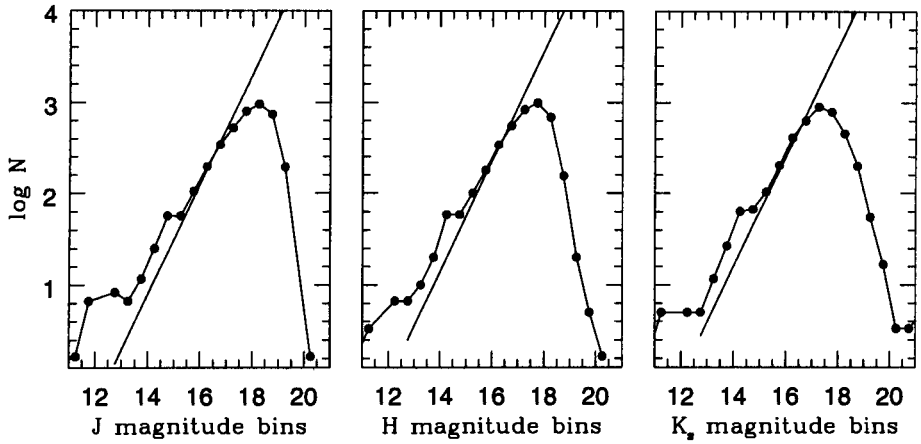

Figure 4.27: log N-log S plot for the A field.

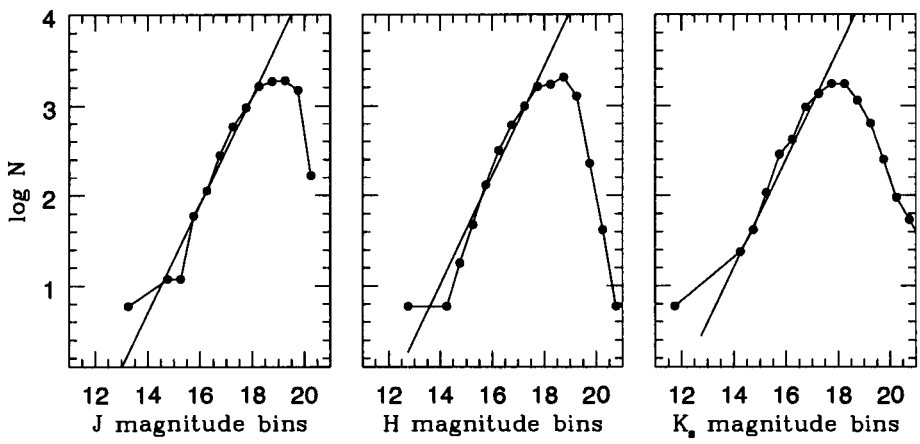

Figure 4.28: log N-log S plot for the B field.

Table 4.12: Number of galaxies per square degree with magnitudes fainter than the completeness limits of each field

Field	J	H	K_s
IRSF	1595	1546	1436
Pavo	3155	3037	3111
A Field	2689	2686	2429
B Field	5375	5285	5708

Here we see that the "A" Field appears richer than the other fields. This implies that the "A" field has more brighter galaxies per square degree than the other fields. This can also be seen from Table 4.11 when we compare numbers beyond the completeness limit. So, if we are looking for faint galaxies (which we are), the Pavo and "B" fields are a better choice (the "B" field being the best).

Table 4.13: Number of galaxies per square degree with magnitudes brighter than the completeness limits of A Field

Field	J	H	K_s
IRSF	160	117	223
Pavo	377	485	844
A Field	1341	1341	1540
B Field	1065	1130	1839

In order to better analyse the distribution of the detections, plots in Figures 4.29 to 4.32 show the distribution of all the galaxies detected in each region as well as for the magnitude intervals K_s = 15 - 17.5 mag and K_s = 17.5 - 20 mag respectively.

In Figure 4.29, it can be seen that the IRSF field shows a more uniform distribution compared to the others with no obvious areas of overdensity. This is what we expect as we chose this region as a control field and were not expecting any clustering features.

The Pavo field shown in Figure 4.30 shows some concentrations in the overall distribution. In the 15-17.5 magnitude range, one can see areas where there seem to be voids in the distribution, but it is in the 17.5-20 magnitude range that we see an interesting picture. Here, areas of clustering can be seen, conspicuous in its absence in the 15-17.5 magnitude plot. Particularly just left and down from centre, where we find a concentration of QSOs and X-ray sources, we can see some clustering of galaxies. Just right of centre we can see another clump of galaxies again accompanied by QSOs and an X-ray source and the suggestion of voids to the left and right.

Looking at the overall distribution for the "A" field in Figure 4.31 makes it more difficult to discern any clustering that may be present. There seem to be definite regions

of underdensity and again clustering around some radio and X-ray sources. The magnitude range 15-17.5, however, shows areas devoid of detections and marked concentrations around some sources particularly the X-ray sources towards the top left and bottom left corners. The 17.5-20 magnitude range shows far less structure and is more conspicuous in its underdensities.

Turning now towards the "B" field shown in Figure 4.32, we can see some clustering evident in the top right area where we find an X-ray source and a radio source. There are also regions of conspicuous underdensities just above and below left of centre.Looking at the 15-17.5 magnitude range, one can see clustering just below centre around the two X-ray sources. The 17.5-20 magnitude range shows clustering to the top right and a conspicuous void just above centre.

The magnitude range plots highlight an important consideration. Here we can see the effect of obtaining data on different nights, where one night is less photometric than the other. In the 15-17.5 magnitude range, we can see slightly more galaxies in the lower half, while for the 17.5-20 magnitude range we see many more galaxies detected in the top half. This is due to the fact that the fields in the top half of the plot were taken on the same night in excellent seeing, whereas the fields in the bottom half of the plot were taken in worse seeing conditions. As a result, the top fields have reached a much fainter magnitude. This effect is not seen in the other plots as this type of discrepancy was not an issue. For the IRSF Deep field and Pavo field the seeing was very good for all observations, while for the "A" field the seeing was generally consistently poorer.

A means to combat such a bias is to calculate a completeness limit for each subfield and then combine the results for the entire region. This will be possible once we can image with SALT as it will easily be able to access the faint magnitudes we are dealing with and be able to give very precise photometry for the cluster members. These effects will also need to be eliminated since we need very accurate photometry in order to study the evolution of clusters effectively.

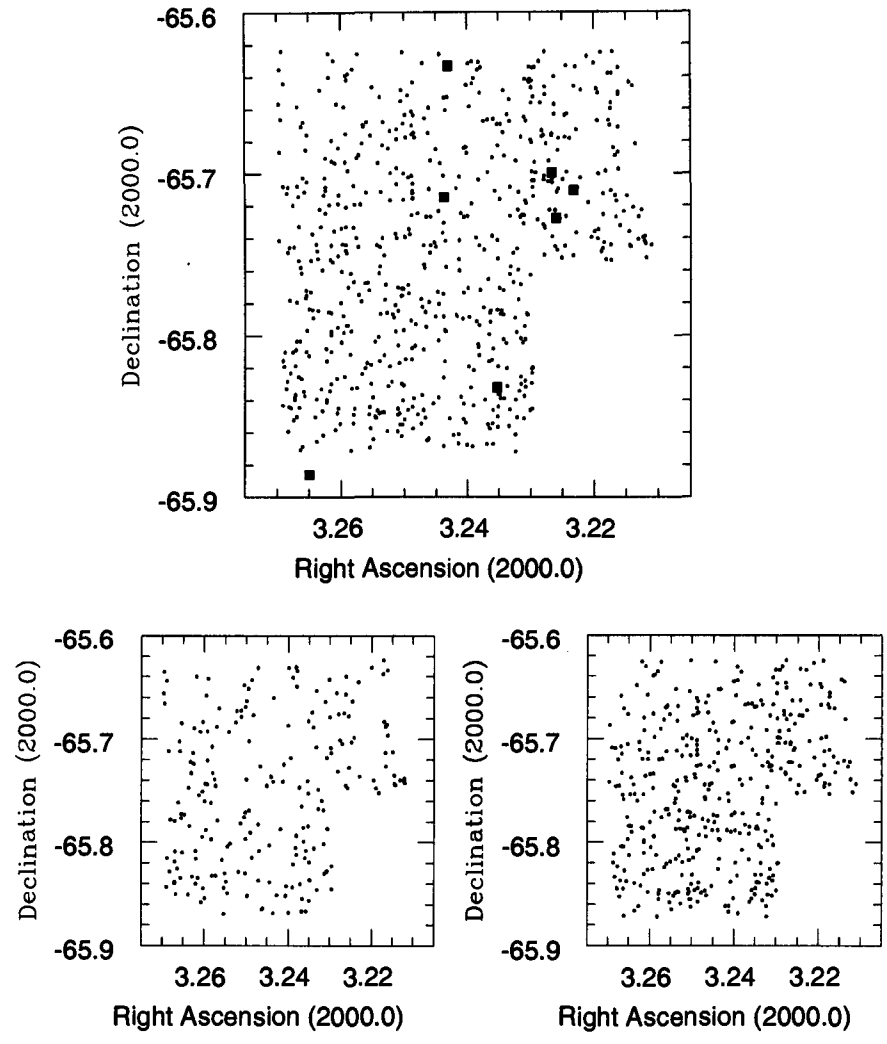

Figure 4.29: The upper panel shows all detected galaxies (small dots) for the IRSF control field. In this panel, the previously known radio sources are indicated by filled squares. In the lower panel, galaxies in the magnitude range $15 < K_s <= 17.5$ mag (lower left) and $17.5 < K_s <= 20$ mag (lower right) are shown.

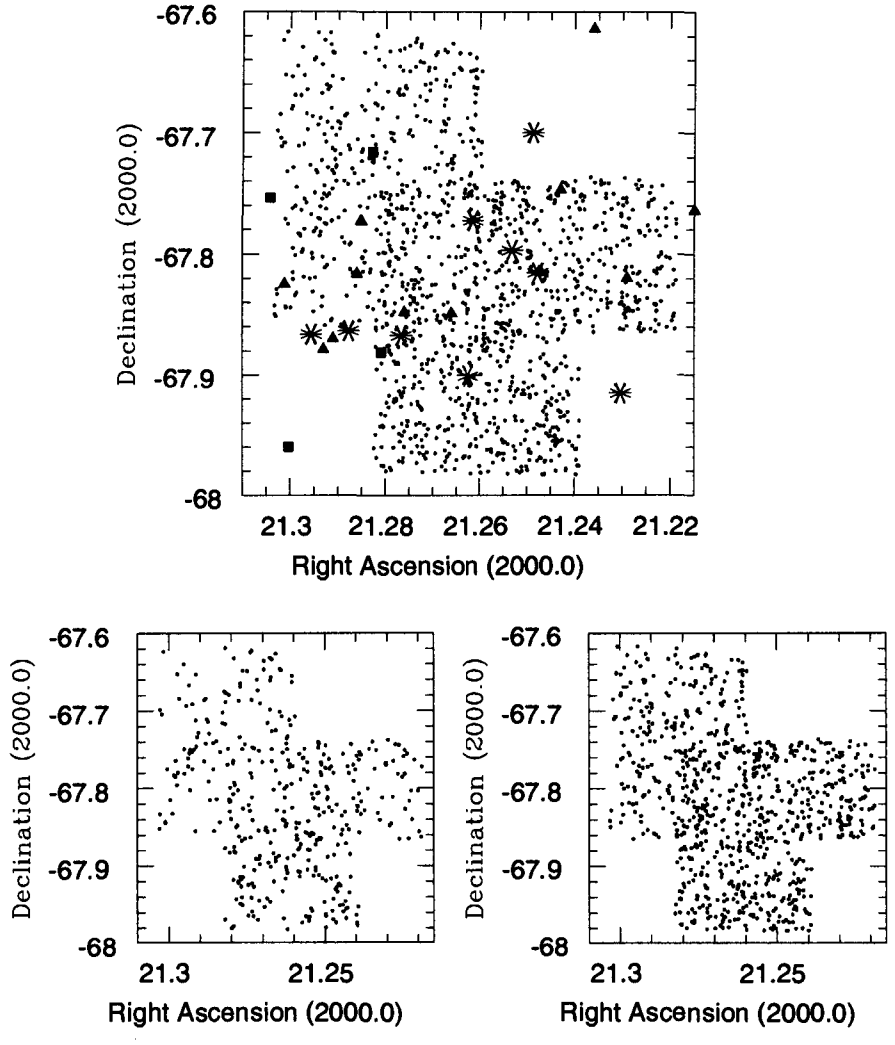

Figure 4.30: The upper panel shows all detected galaxies (small dots) for the Pavo field. In this panel, the previously known QSOs and X-ray sources are indicated by asterisks and filled triangles respectively. Previously known radio sources are indicated by solid squares. In the lower panel, galaxies in the magnitude range $15 < K_s <= 17.5$ mag (lower left) and $17.5 < K_s <= 20$ mag (lower right) are shown.

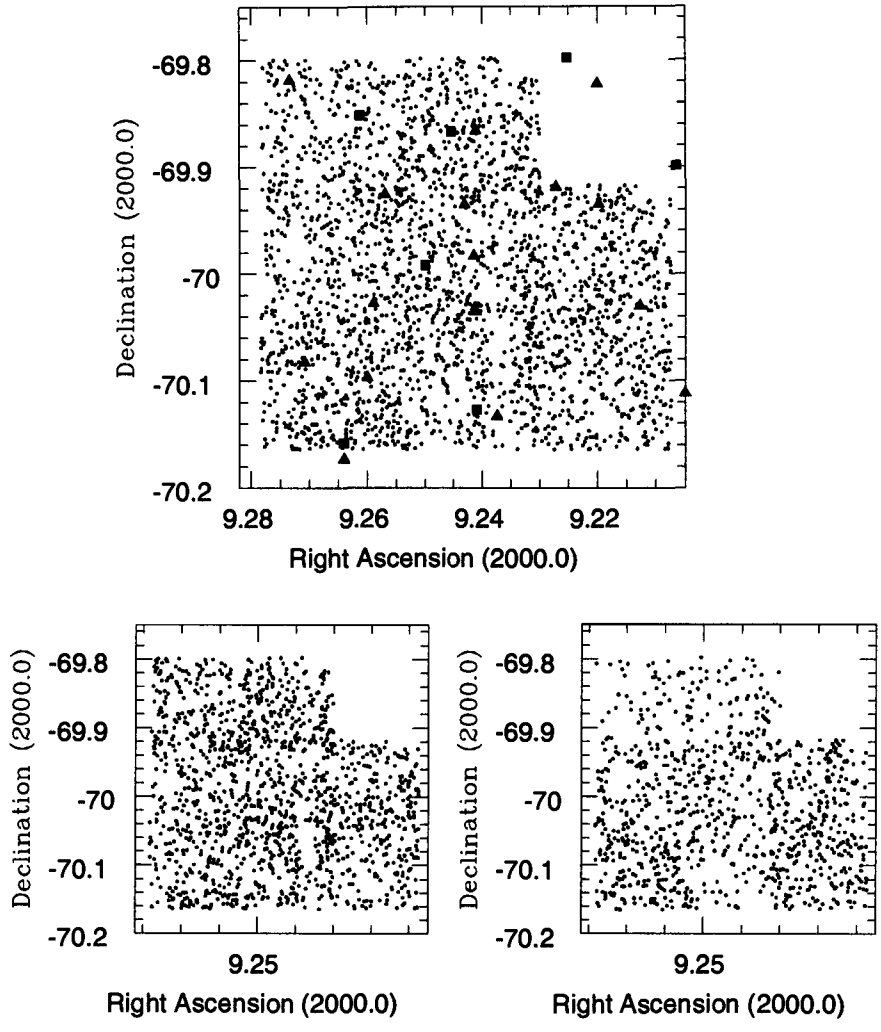

Figure 4.31: The upper panel shows all detected galaxies (small dots) for the A field. In this panel, the previously known radio and X-ray sources are indicated by solid squares and filled triangles respectively. In the lower panel, galaxies in the magnitude range $15 < K_s <= 17.5$ mag (lower left) and $17.5 < K_s <= 20$ mag (lower right) are shown.

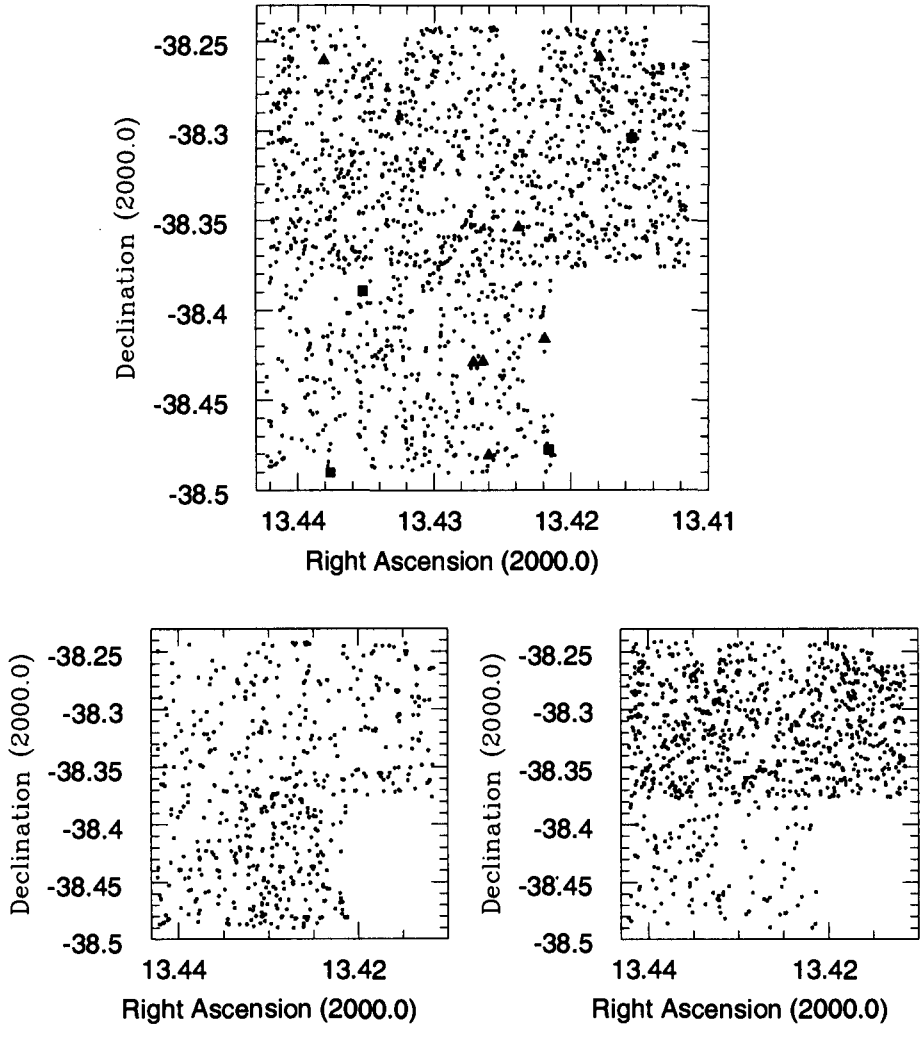

Figure 4.32: The upper panel shows all detected galaxies (small dots) for the B field. In this panel, the previously known radio and X-ray sources are indicated by solid squares and filled triangles respectively. In the lower panel, galaxies in the magnitude range $15 < K_s <= 17.5$ mag (lower left) and $17.5 < K_s <= 20$ mag (lower right) are shown.

Chapter 5

Discussion and Future Prospects

Of the three target regions observed, all three have been found to have a marked overdensity in galaxy number when compared to the control field, and all three have shown evidence of clustering and underdensities in their distribution. Before beginning this investigation, the expected estimated limiting magnitude was 18.0 mag in the K_s band and as can be seen in Table 4.10, this has very nearly been achieved. Inspection of the magnitude bin plots shown in Figures 4.17-4.20 show that the Pavo Field and "A" field are of comparable richness and approximately twice as rich as the IRSF control field, whereas the "B" field is even richer. This is particularly encouraging in the case of the "B" field as only a small area was covered compared to the other regions, but not surprising as our initial plots showed concentrations of X-ray sources and QSOs in a relatively small area. Follow up work is therefore essential in the "B" field in particular, in order to map a larger area and thus determine the extent and nature of the overdensities. The "A" and Pavo fields do show areas where the distribution suggests clustering and since they are approximately twice as rich as the control field, it will be worthwhile to pursue these regions.

The next step in this project is to use the positions and infrared magnitudes obtained in this dissertation to optimise the choice of targets for SALT. The intended goal is to use Salticam to re-image the areas chosen and expand the area covered. The next step is to use PFIS to obtain spectra of the galaxies and from there work can be done to explore evolutionary effects in galaxy clusters. The aim is to investigate clusters not previously observed by other large telescopes. Naturally, the exploration of intermediate redshift clusters also has application to a variety of research areas, such as determining cosmological parameters and investigating large-scale structures and this project will in all likelihood expand into those areas.

A further possibility is to collaborate with groups finding clusters by means of the Sunyaev-Zeldovich effect and do follow up work on candidate clusters found in this way. This will increase the sample size of galaxy clusters imaged by SALT and statistically

significant results can thus be determined.

Superclusters contain between 2 and 5 massive clusters and extend over 10 to 20 Mpc. What makes them interesting to study is the fact that the dynamical timescale involved in their formation is of the order of the Hubble time. This means that they contain vital information as to the properties of the early universe (Lubin et al. 2000). Via these galaxy clusters we get to see the "initial conditions" of the visible universe as at high redshift they are the earliest manifestation of the primordial density fluctuations. Hence superclusters play an important role in understanding the formation and evolution of galactic structure and determining the mass-to-light ratio on large scales. As a result they also directly influence the measurements of cosmological parameters.

Due to the observational difficulty of detecting clustering on such a large scale, few superclusters are known for $z > 0.5$ (Tanaka et al. 2001). Prior work on superclusters has therefore been dominated by local large-scale structures. There has also been an observational focus on superclusters at high redshifts (eg. Lubin et al. 2000, Gal, Lubin & Squires 2004, Tanaka et al. 2001), but relatively few in comparison at intermediate redshifts. The connection between these two regions provides crucial information about structure and formation in the universe (West 1991). It has been suggested that concentrations of QSOs and AGN may well indicate the presence of superclusters at intermediate and high redshifts (Oort, Arp & de Ruiter 1981). Observations have shown that quasars at high redshifts are generally found in dense galaxy environments and that there is a correlation between radio source structure and its optical counterpart for $z > 0.5$, but there are still conflicting results for evidence of quasar clustering (West (1991) and references within). This investigation will assist in determining if QSOs are reliable indicators for the locations of superclusters.

At a redshift of 0.5, the angular size of a supercluster is $\approx$ 1 degree on the sky. SALT's large field of view (8×8 arcmin) makes it ideal for imaging these structures. The aim of future work will be to find and map superclusters with redshifts of $z \approx 0.5$ and then work to higher redshifts in the view of "filling in" the intermediate steps between local structures and the universe that is revealed at high redshifts.

Appendix A

Catalogues

A.1 Galaxy Catalogues output from SExtractor

These are the catalogues of the objects detected by SExtractor, determined by the value of the stellarity index. The columns represent the following :

Column 1: The running catalogue number as generated by SExtractor
Column 2: Right Ascension (degrees)
Column 3: Declination (degress)
Column 4: J magnitude (AUTO)
Column 5: J magnitude error
Column 6: H magnitude (AUTO)
Column 7: H magnitude error
Column 8: Ks magnitude (AUTO)
Column 9: Ks magnitude error
Column 10: Position angle (degrees)
Column 11: Ellipticity
Column 12: Extraction flags
Column 13: Stellarity index (Star/Galaxy classifier output)

Where the magnitude is given as a number close to 99, it indicates that the source was too faint to be resolved in that band and a reliable magnitude could not be calculated by SExtractor.

3	318.3451303	-67.8638906	16.8931	0.0150	16.1675	0.0136	15.4789	0.0259	-49.3	0.426	16	0.02
5	318.3909716	-67.8645146	18.3822	0.0416	17.7770	0.0428	17.4945	0.1198	-20.2	0.113	16	0.25
7	318.5398882	-67.8646312	19.6590	0.0723	19.2817	0.0914	19.7783	0.5244	-10.1	0.441	24	0.61
8	318.5384481	-67.7410239	18.5328	0.0408	18.2386	0.0555	18.3142	0.2159	-88.0	0.175	0	0.58
9	318.4455143	-67.7371878	18.3289	0.0390	17.6440	0.0373	16.8552	0.0654	-53.8	0.064	24	0.10
10	318.5504662	-67.7366717	19.8250	0.0879	19.0776	0.0798	18.4891	0.1687	17.2	0.135	24	0.56
11	318.4947717	-67.7413653	19.3533	0.0573	18.7382	0.0581	18.6836	0.1997	82.9	0.074	0	0.82
12	318.5091137	-67.7415654	18.7192	0.0580	18.1020	0.0594	17.8459	0.1708	-45.1	0.215	0	0.11
14	318.4089910	-67.7426408	18.5698	0.0410	17.8320	0.0373	17.1837	0.0742	85.8	0.120	0	0.34
15	318.5184864	-67.7423825	19.6619	0.1033	18.6656	0.0751	18.0361	0.1532	-15.3	0.125	0	0.04
16	318.3256083	-67.7431327	19.3788	0.0607	18.6582	0.0561	18.2937	0.1450	-48.1	0.067	0	0.66
17	318.3907604	-67.7436304	17.9392	0.0327	17.1879	0.0294	16.5493	0.0593	24.5	0.099	0	0.01
18	318.3600244	-67.7441480	19.4972	0.0639	18.7302	0.0566	18.5627	0.1752	-50.0	0.142	0	0.72
20	318.4028155	-67.7461674	19.4117	0.1066	18.6488	0.0961	18.6973	0.3672	-50.5	0.403	0	0.01
21	318.6051121	-67.7459917	18.6975	0.0532	18.0570	0.0532	18.6994	0.3490	86.2	0.031	0	0.66
24	318.5350883	-67.7488657	18.9080	0.0585	18.1927	0.0547	17.3572	0.0923	-11.0	0.150	0	0.34
25	318.6041617	-67.7485703	19.9896	0.1207	19.4899	0.1381	19.9596	0.7770	-14.4	0.270	0	0.44
26	318.3645638	-67.7497506	17.4509	0.0229	16.7397	0.0212	16.0846	0.0419	15.1	0.040	0	0.11
27	318.5025889	-67.7499151	18.2918	0.0313	17.3470	0.0235	16.5409	0.0402	-46.3	0.101	0	0.06
29	318.4790928	-67.7501808	19.2064	0.0586	18.9726	0.0844	18.7930	0.2603	-81.4	0.115	0	0.35
31	318.5800643	-67.7507913	19.0528	0.0603	18.5569	0.0687	18.9777	0.3677	-9.1	0.094	0	0.85
33	318.5834305	-67.7522825	18.5379	0.0491	17.7366	0.0425	17.0254	0.0802	46.5	0.186	0	0.07
34	318.5700050	-67.7524284	19.0659	0.0578	18.7931	0.0805	18.8791	0.3170	-43.8	0.097	0	0.87
35	318.4380435	-67.7537005	18.9204	0.0478	17.9720	0.0360	17.6338	0.0947	65.7	0.097	0	0.20
36	318.4489247	-67.7538242	19.4009	0.0737	18.6520	0.0668	18.1530	0.1534	-86.7	0.162	0	0.68
37	318.5027504	-67.7536311	19.8458	0.0896	19.3779	0.1048	19.0647	0.2862	5.1	0.011	0	0.46
38	318.3525797	-67.7545267	18.3517	0.0333	17.6653	0.0315	16.9566	0.0592	-54.5	0.078	0	0.03
40	318.3609330	-67.7555721	19.7028	0.0973	19.0289	0.0948	18.9588	0.3237	39.4	0.030	0	0.65
41	318.5760247	-67.7559961	18.4543	0.0480	18.0256	0.0582	16.9954	0.0823	63.7	0.140	0	0.00
43	318.5972281	-67.7571040	17.3621	0.0259	16.7795	0.0272	16.0835	0.0521	-37.2	0.069	0	0.02
44	318.2955742	-67.7573825	19.6955	0.0677	19.3125	0.0848	19.2330	0.2858	68.0	0.074	0	0.62
45	318.3694882	-67.7576889	16.8466	0.0165	16.0344	0.0140	15.3703	0.0273	-12.1	0.516	0	0.02
46	318.4369176	-67.7573062	19.5306	0.1050	18.4041	0.0678	18.1985	0.2045	57.9	0.385	0	0.01
49	318.4646840	-67.7582633	19.6887	0.0665	19.0498	0.0660	18.9688	0.2213	5.1	0.030	0	0.61
52	318.4486860	-67.7597696	19.7071	0.0684	19.1485	0.0731	18.8191	0.1954	44.4	0.246	0	0.49
53	318.3701399	-67.7603863	19.2083	0.0728	19.0142	0.1096	19.3959	0.5688	0.5	0.276	0	0.45
57	318.3170599	-67.7622970	18.1939	0.0401	17.7241	0.0467	17.3148	0.1167	41.9	0.098	0	0.07
60	318.5863242	-67.7624310	18.3086	0.0339	17.6063	0.0317	16.9381	0.0619	63.8	0.219	2	0.02
61	318.5848955	-67.7630638	19.4792	0.0791	18.7369	0.0722	18.5145	0.2139	-44.2	0.183	3	0.72
62	318.4855245	-67.7629686	19.7598	0.1018	19.0828	0.0989	19.0729	0.3573	79.3	0.015	0	0.65
63	318.5700219	-67.7631972	19.0492	0.0493	18.5247	0.0543	19.2001	0.3649	-61.7	0.047	0	0.79
64	318.4194040	-67.7637117	18.2150	0.0288	17.7923	0.0344	17.4978	0.0945	1.5	0.002	0	0.89
67	318.5077790	-67.7659775	18.9295	0.0562	18.3531	0.0595	18.5911	0.2689	-40.8	0.132	0	0.77
68	318.4553129	-67.7664692	17.7097	0.0305	17.1175	0.0318	16.6187	0.0729	63.4	0.113	0	0.05
71	318.4552560	-67.7688826	17.1502	0.0169	16.3791	0.0147	15.7312	0.0290	-39.0	0.258	0	0.07
73	318.6140312	-67.7695152	17.5111	0.0239	16.6234	0.0189	15.8150	0.0324	80.7	0.253	0	0.03
74	318.3382014	-67.7702129	19.1525	0.0529	18.6298	0.0584	18.6181	0.2089	-64.3	0.180	0	0.66
75	318.3115603	-67.7703556	18.9273	0.0637	18.4196	0.0721	18.1052	0.1967	57.2	0.085	0	0.66
78	318.4298234	-67.7705140	18.9264	0.0634	18.7504	0.0972	18.4294	0.2641	-23.7	0.175	0	0.16

Figure A.1: Catalogue for Pavo m1p0

79	318.2809537	-67.7711932	17.6230	0.0250	16.9972	0.0251	16.3620	0.0506	-61.7	0.330	16	0.01
84	318.5099954	-67.7742834	18.5071	0.0534	17.8666	0.0536	17.0623	0.0932	-39.1	0.192	0	0.19
85	318.2797196	-67.7751932	19.6978	0.0922	18.8732	0.0782	18.3982	0.1836	34.9	0.526	16	0.10
86	318.6028712	-67.7757014	17.7929	0.0304	16.9901	0.0261	16.3965	0.0548	-19.3	0.355	0	0.02
88	318.3702906	-67.7762477	19.8642	0.0951	19.4169	0.1136	18.6163	0.1984	16.7	0.113	0	0.31
90	318.4500896	-67.7766778	19.2900	0.0584	18.6682	0.0590	18.4798	0.1796	21.6	0.104	0	0.63
92	318.3129002	-67.7771762	19.3989	0.0623	18.8763	0.0689	18.6609	0.2049	75.1	0.121	0	0.82
94	318.5285943	-67.7768973	19.9038	0.0742	19.2621	0.0735	19.2801	0.2697	0.6	0.243	0	0.42
96	318.4397653	-67.7774863	19.4107	0.0935	18.5385	0.0761	18.0063	0.1700	75.7	0.265	0	0.62
97	318.4374934	-67.7777326	19.8370	0.1098	19.1729	0.1081	19.8350	0.7248	-74.3	0.275	0	0.53
98	318.5365437	-67.7780926	19.0589	0.0480	18.5842	0.0551	18.4466	0.1756	68.0	0.158	0	0.83
102	318.5762727	-67.7792563	18.9725	0.0601	18.5539	0.0736	17.6555	0.1174	87.8	0.274	0	0.00
103	318.5034914	-67.7800292	19.3141	0.0645	18.9463	0.0824	18.6036	0.2187	67.1	0.113	0	0.67
104	318.3634672	-67.7804620	18.6871	0.0460	17.8015	0.0367	17.0964	0.0694	59.8	0.184	0	0.01
105	318.5943502	-67.7799357	19.1828	0.0661	18.6551	0.0733	19.2114	0.4445	81.7	0.191	0	0.26
106	318.3424571	-67.7803796	19.8879	0.1122	19.3756	0.1269	18.1316	0.1476	74.9	0.262	0	0.00
107	318.3972758	-67.7808556	18.0762	0.0377	17.2785	0.0326	16.8215	0.0777	69.2	0.059	0	0.11
110	318.3935560	-67.7821880	19.2961	0.0932	18.4322	0.0765	17.6557	0.1367	-59.5	0.187	0	0.46
116	318.3335651	-67.7846001	18.4771	0.0349	18.0526	0.0418	18.2188	0.1757	-63.5	0.053	0	0.75
117	318.3784438	-67.7849581	18.4183	0.0473	17.5478	0.0384	17.0020	0.0843	-56.6	0.042	0	0.08
120	318.2803908	-67.7862231	19.5183	0.0941	19.7699	0.2142	98.9006	99.0000	-57.7	0.235	16	0.39
124	318.4326724	-67.7873834	19.2309	0.0550	19.0712	0.0844	18.8858	0.2585	-28.2	0.101	0	0.81
127	318.4476620	-67.7889643	19.4331	0.0637	18.9738	0.0746	18.2245	0.1361	-34.7	0.150	0	0.81
129	318.6115463	-67.7907381	18.4886	0.0452	17.3126	0.0278	16.5894	0.0516	-46.4	0.196	0	0.10
131	318.4261975	-67.7922194	18.8246	0.0529	18.1928	0.0532	18.0247	0.1655	-65.0	0.051	0	0.81
133	318.4666330	-67.7933071	19.6892	0.0944	18.9392	0.0857	18.9771	0.3231	45.9	0.134	0	0.67
134	318.4865415	-67.7933896	19.7830	0.0892	19.5235	0.1263	19.1482	0.3262	-16.6	0.103	0	0.58
136	318.5014017	-67.7946705	19.5199	0.0676	18.8293	0.0643	18.2414	0.1357	-60.3	0.084	0	0.57
137	318.4862722	-67.7953748	19.8274	0.1290	19.1987	0.1315	18.2384	0.1988	74.6	0.272	0	0.01
138	318.5180027	-67.7963574	19.7671	0.1221	19.1772	0.1289	19.4042	0.5808	-41.2	0.147	0	0.49
144	318.3270540	-67.7985099	19.6697	0.0693	19.1373	0.0760	19.0984	0.2654	83.5	0.021	0	0.62
146	318.4826660	-67.7988690	19.1509	0.0593	18.5507	0.0613	18.3624	0.1871	-40.8	0.049	0	0.08
150	318.5419578	-67.7999067	17.7891	0.0322	17.2580	0.0355	16.7954	0.0842	-41.3	0.553	0	0.00
152	318.3282258	-67.8002414	19.2681	0.0568	18.7232	0.0615	18.5887	0.1968	-87.4	0.049	0	0.88
154	318.6031661	-67.8001284	18.4726	0.0337	18.2438	0.0481	19.4869	0.5452	-6.4	0.033	0	0.60
156	318.3354363	-67.8022137	16.9461	0.0133	16.2775	0.0126	15.8444	0.0300	34.1	0.381	0	0.44
157	318.3124200	-67.8022302	19.3919	0.0891	18.4871	0.0704	17.8260	0.1396	-39.0	0.241	0	0.03
159	318.3005049	-67.8032626	17.5997	0.0239	16.8593	0.0216	16.0651	0.0375	77.6	0.156	0	0.05
165	318.5563780	-67.8046432	19.5687	0.0976	19.2509	0.1319	18.6657	0.2814	18.9	0.126	0	0.41
166	318.5909749	-67.8051310	19.8863	0.1010	19.3429	0.1107	19.5119	0.4712	-87.9	0.198	0	0.36
167	318.5214052	-67.8053801	19.6784	0.1063	19.4553	0.1568	19.1122	0.4182	87.2	0.032	0	0.53
171	318.5846402	-67.8062619	18.3744	0.0389	17.6068	0.0345	16.9753	0.0697	-74.8	0.115	0	0.09
172	318.5066507	-67.8085486	20.0421	0.1224	19.2503	0.1072	19.1255	0.3484	63.0	0.353	0	0.57
175	318.4197703	-67.8101696	18.7528	0.0589	17.8345	0.0459	16.7809	0.0634	66.3	0.115	0	0.03
179	318.3253682	-67.8104525	19.0247	0.0496	18.6743	0.0639	18.1496	0.1432	80.5	0.038	0	0.44
180	318.4731177	-67.8106582	18.5383	0.0467	17.5920	0.0353	17.1335	0.0839	-86.5	0.135	0	0.01
182	318.4371176	-67.8106694	19.8163	0.1012	18.9197	0.0804	18.1579	0.1453	-47.1	0.133	0	0.55
183	318.5765742	-67.8106933	19.2640	0.0735	18.7537	0.0829	18.0115	0.1528	-61.0	0.456	0	0.00
185	318.3308051	-67.8118274	18.8739	0.0440	18.2739	0.0451	18.0326	0.1304	-62.3	0.168	0	0.86

Figure A.2: Catalogue for Pavo m1p0 (cont.)

186	318.3397709	-67.8121397	19.3325	0.0616	18.8339	0.0697	18.5996	0.2037	69.8	0.157	0	0.66
188	318.2884549	-67.8127292	19.1221	0.0832	19.0770	0.1444	23.2063	23.6845	-20.4	0.379	0	0.43
190	318.6137732	-67.8127258	17.8673	0.0245	17.2841	0.0254	17.0403	0.0727	-70.1	0.135	0	0.82
192	318.4412309	-67.8134712	19.2976	0.0565	18.5851	0.0525	18.5009	0.1753	0.7	0.112	0	0.63
193	318.3509353	-67.8140715	18.9673	0.0826	18.7679	0.1246	17.5435	0.1479	53.6	0.385	0	0.01
196	318.3952486	-67.8148787	18.9940	0.0732	18.9546	0.1276	18.1683	0.2264	-65.6	0.149	0	0.82
197	318.6015737	-67.8146968	18.6550	0.0436	18.5051	0.0677	18.2511	0.1949	-65.5	0.086	0	0.62
199	318.3415627	-67.8157659	17.9979	0.0381	17.5934	0.0473	17.1358	0.1130	18.0	0.106	0	0.01
200	318.4150402	-67.8156925	19.4851	0.0926	19.1702	0.1253	19.6694	0.7251	-86.3	0.110	0	0.72
201	318.5762445	-67.8164757	18.1686	0.0352	17.4079	0.0314	16.9121	0.0719	53.4	0.161	0	0.18
202	318.4016974	-67.8166368	19.7750	0.1144	19.1262	0.1143	19.2017	0.4473	43.6	0.132	0	0.59
203	318.5814913	-67.8170615	19.6848	0.0856	19.1457	0.0939	19.5734	0.5065	-19.3	0.124	0	0.67
205	318.5343598	-67.8185287	19.8087	0.1096	20.1378	0.2678	18.5748	0.2330	69.3	0.421	3	0.58
209	318.6003247	-67.8207157	18.2988	0.0311	18.0540	0.0437	17.9215	0.1400	57.2	0.086	0	0.75
211	318.2820195	-67.8216655	19.2860	0.0621	18.3323	0.0466	17.5719	0.0837	69.2	0.183	0	0.29
212	318.3768420	-67.8219823	19.2096	0.0664	18.7454	0.0779	19.2172	0.4375	-64.9	0.159	0	0.82
214	318.5931538	-67.8220458	18.0133	0.0345	16.9291	0.0230	16.1674	0.0412	78.8	0.200	3	0.06
215	318.5904605	-67.8226155	17.0612	0.0156	16.2048	0.0126	15.5849	0.0253	10.1	0.218	3	0.03
217	318.4942931	-67.8227279	19.2342	0.0696	18.8114	0.0849	17.9284	0.1374	75.9	0.090	0	0.36
219	318.4384994	-67.8238144	19.7801	0.0721	19.7322	0.1226	18.8430	0.1971	89.5	0.387	0	0.55
220	318.4025122	-67.8244689	19.5698	0.1072	18.7185	0.0890	17.8841	0.1508	56.0	0.288	0	0.05
221	318.2902784	-67.8251759	19.3713	0.0651	19.4775	0.1281	18.7341	0.2360	65.8	0.206	0	0.01
223	318.3619730	-67.8256395	19.4686	0.0820	18.3319	0.0524	17.4897	0.0876	56.5	0.277	0	0.71
224	318.3663381	-67.8256799	19.1670	0.0864	19.3284	0.1813	22.0328	8.0135	87.7	0.166	0	0.04
226	318.3446362	-67.8260548	19.7624	0.0719	19.3194	0.0854	19.5439	0.3802	-66.8	0.211	0	0.52
227	318.3070497	-67.8266658	19.4379	0.0940	18.4678	0.0700	17.9654	0.1606	-44.3	0.120	0	0.14
228	318.5885518	-67.8263057	19.4485	0.0629	18.8322	0.0639	18.5928	0.1855	52.2	0.031	0	0.83
229	318.3948239	-67.8268927	19.2434	0.0801	18.5021	0.0733	18.1832	0.1993	76.4	0.218	0	0.02
232	318.5943336	-67.8276257	17.5017	0.0223	16.6940	0.0189	16.0028	0.0360	76.4	0.114	0	0.03
233	318.5586778	-67.8279597	18.1825	0.0325	17.5191	0.0315	16.9096	0.0650	70.7	0.185	0	0.19
235	318.5484923	-67.8295944	19.4679	0.0904	18.5611	0.0712	17.9448	0.1471	-41.2	0.151	0	0.34
238	318.4947146	-67.8310206	16.3472	0.0109	15.7346	0.0109	15.4268	0.0293	-22.9	0.203	3	0.03
240	318.5336752	-67.8306534	18.9318	0.0754	18.3608	0.0809	17.5852	0.1447	-33.8	0.204	0	0.11
242	318.4502602	-67.8320305	20.0365	0.1138	19.3846	0.1131	19.5555	0.4825	19.8	0.010	0	0.66
246	318.5756479	-67.8325433	19.0332	0.0667	18.2603	0.0593	17.2402	0.0845	-47.7	0.095	0	0.09
247	318.4330131	-67.8339325	16.4237	0.0110	15.6935	0.0098	14.9958	0.0184	-43.3	0.266	0	0.03
250	318.4082062	-67.8356105	19.2322	0.0555	18.8798	0.0715	19.2117	0.3517	-0.6	0.087	0	0.85
251	318.4487623	-67.8358038	19.0787	0.0797	18.5534	0.0891	18.0822	0.2110	31.4	0.125	0	0.00
252	318.5478693	-67.8368664	16.1208	0.0099	15.4515	0.0094	14.8420	0.0191	-80.8	0.162	0	0.03
253	318.3717708	-67.8364326	19.8431	0.1149	20.6821	0.4492	20.3761	1.2431	57.6	0.224	0	0.05
254	318.5984106	-67.8360207	19.8216	0.1037	19.5051	0.1400	18.6953	0.2429	-89.4	0.346	0	0.69
256	318.4970825	-67.8370256	19.2726	0.0890	19.1755	0.1473	98.9006	99.0000	45.2	0.153	0	0.17
259	318.3951657	-67.8379404	19.5929	0.1025	18.8596	0.0948	17.7911	0.1295	34.8	0.184	0	0.43
260	318.6199896	-67.8377439	19.1013	0.0722	18.8638	0.1048	19.1938	0.5185	-25.3	0.456	16	0.12
261	318.3279498	-67.8389245	17.4182	0.0201	16.7332	0.0190	16.0873	0.0377	-77.4	0.160	0	0.03
262	318.5158358	-67.8381295	19.0291	0.0696	19.3386	0.1665	19.4052	0.6482	-2.6	0.099	0	0.31
264	318.4079198	-67.8392162	19.5946	0.1053	19.6579	0.2020	18.7538	0.3220	-53.1	0.592	0	0.07
265	318.4021238	-67.8399359	18.3758	0.0413	17.9811	0.0515	18.2658	0.2433	-84.2	0.151	0	0.43
266	318.4517357	-67.8398587	18.8534	0.0547	18.5055	0.0713	17.8412	0.1410	5.4	0.125	0	0.07

Figure A.3: Catalogue for Pavo m1p0 (cont.)

267	318.4847187	-67.8401000	17.3062	0.0161	16.7108	0.0162	16.3994	0.0433	71.2	0.130	0	0.73
269	318.4953614	-67.8409761	19.0178	0.0782	18.5253	0.0900	19.9213	1.1887	89.7	0.321	0	0.00
270	318.3493223	-67.8413346	19.1589	0.0678	18.6662	0.0777	18.2633	0.1953	-51.8	0.060	0	0.28
271	318.4574316	-67.8411639	19.4610	0.0664	19.0429	0.0808	18.4652	0.1727	88.1	0.062	0	0.08
273	318.3437244	-67.8418857	19.3221	0.0963	19.0501	0.1360	20.0738	1.2766	-60.0	0.196	0	0.00
276	318.4444190	-67.8424962	19.8486	0.1211	19.2947	0.1320	18.3719	0.2065	20.5	0.130	0	0.63
280	318.4310463	-67.8444279	18.6091	0.0479	17.9785	0.0482	17.2677	0.0912	-84.3	0.157	0	0.27
281	318.4958510	-67.8444114	18.9098	0.0498	18.1420	0.0441	18.1639	0.1625	68.9	0.064	0	0.87
284	318.4010051	-67.8455937	19.2222	0.0811	18.7250	0.0929	18.3373	0.2375	89.6	0.193	0	0.01
285	318.4397727	-67.8459074	18.2991	0.0522	17.6655	0.0528	17.5421	0.1717	58.7	0.165	0	0.01
286	318.5902042	-67.8462268	19.1645	0.0511	18.3718	0.0441	18.3407	0.1541	-70.7	0.152	0	0.89
287	318.4264417	-67.8466202	19.2813	0.0990	19.3432	0.1900	18.7022	0.3860	72.3	0.258	0	0.00
288	318.3426891	-67.8469569	18.7298	0.0559	18.5413	0.0846	18.6839	0.3519	39.4	0.056	0	0.47
289	318.4154308	-67.8470233	19.1023	0.0600	18.7839	0.0802	18.5769	0.2415	-81.1	0.124	0	0.72
291	318.4368947	-67.8476171	17.0512	0.0161	16.4974	0.0170	15.8159	0.0327	51.9	0.266	3	0.03
292	318.5253539	-67.8469124	18.9330	0.0685	18.3421	0.0720	18.3681	0.2689	67.1	0.471	0	0.07
293	318.5980655	-67.8469415	18.9739	0.0540	18.4211	0.0583	18.3397	0.1963	78.5	0.029	0	0.66
294	318.2874554	-67.8490195	19.2468	0.0740	18.7758	0.0866	18.1337	0.1750	37.9	0.126	0	0.05
296	318.4448773	-67.8496766	18.7769	0.0583	18.2793	0.0666	17.5741	0.1269	23.1	0.074	0	0.23
301	318.2897762	-67.8513682	19.4220	0.0782	19.0536	0.1004	19.8164	0.7384	-55.7	0.180	0	0.70
302	318.5501468	-67.8513201	18.9551	0.0670	18.2246	0.0620	17.5664	0.1232	-69.3	0.210	0	0.72
304	318.4392734	-67.8527210	19.3845	0.0654	18.8385	0.0710	18.9539	0.2866	46.1	0.186	0	0.56
305	318.2944837	-67.8548928	18.8941	0.0462	18.0220	0.0371	17.2336	0.0649	8.9	0.064	0	0.03
306	318.3454620	-67.8548481	18.8891	0.0465	18.7075	0.0699	18.2124	0.1610	-64.5	0.047	0	0.67
309	318.5914317	-67.8556997	19.4944	0.0706	19.1551	0.0925	19.0914	0.3175	-46.1	0.120	0	0.28
312	318.5831528	-67.8563440	18.4120	0.0340	17.7052	0.0316	16.8752	0.0532	43.9	0.073	0	0.02
314	318.3926221	-67.8572755	19.3342	0.0742	18.8222	0.0835	18.8478	0.3114	1.5	0.136	0	0.57
316	318.3358348	-67.8586455	19.0443	0.0494	18.3901	0.0484	17.8904	0.1105	-57.8	0.040	0	0.84
318	318.4356426	-67.8596294	19.0138	0.0513	18.5951	0.0623	18.5986	0.2267	-9.2	0.152	0	0.76
319	318.5415613	-67.8595761	18.9843	0.0629	18.2828	0.0596	18.1784	0.1969	84.6	0.105	0	0.36
321	318.3959914	-67.8604045	18.9113	0.0592	18.2986	0.0607	18.1154	0.1865	-52.3	0.034	0	0.79
322	318.3105919	-67.8606087	19.4987	0.1035	18.9978	0.1184	98.9006	99.0000	-87.8	0.149	0	0.37
324	318.2860859	-67.8616430	18.6711	0.0607	17.8660	0.0525	17.0750	0.0923	88.3	0.065	0	0.02
325	318.4568685	-67.8618429	18.7282	0.0615	18.6591	0.1042	18.3038	0.2746	33.9	0.142	0	0.83
326	318.3613244	-67.8621255	19.4895	0.0641	18.9929	0.0725	19.1590	0.3060	-72.0	0.092	0	0.83
327	318.3982122	-67.8621711	19.3202	0.0864	18.9829	0.1147	21.0345	2.7701	-75.0	0.282	0	0.21
328	318.3819082	-67.8623206	19.8473	0.0736	19.1493	0.0694	19.3680	0.3061	44.9	0.136	0	0.61
329	318.4457974	-67.8624861	19.5975	0.0779	19.0755	0.0868	19.1480	0.3372	79.2	0.110	0	0.72
330	318.5983803	-67.7393717	15.5003	0.0072	14.8550	0.0070	14.4609	0.0172	-40.1	0.445	16	0.02
333	318.3985827	-67.7391378	19.0770	0.0574	18.5794	0.0652	18.9487	0.3323	47.4	0.154	0	0.76
334	318.5186159	-67.7392701	17.8213	0.0244	16.9972	0.0203	16.2912	0.0381	19.6	0.122	0	0.04

Figure A.4: Catalogue for Pavo m1p0 (cont.)

4	318.8480486	-67.8642400	18.1635	0.0452	17.6916	0.0525	17.6343	0.1798	72.6	0.363	0	0.10
5	318.6363768	-67.8651345	18.9082	0.0457	18.4165	0.0515	18.3019	0.1660	-75.7	0.172	0	0.80
6	318.7736414	-67.8659956	17.8321	0.0359	17.5794	0.0508	16.9054	0.0987	3.3	0.335	24	0.39
7	318.8433559	-67.8656668	19.1711	0.0562	18.7392	0.0671	18.8063	0.2564	-50.7	0.102	16	0.87
8	318.8828688	-67.8657406	18.2383	0.0397	17.4672	0.0349	17.1424	0.0929	-2.5	0.249	24	0.08
9	318.8232776	-67.8615924	17.1190	0.0208	16.3344	0.0180	15.7004	0.0359	36.9	0.139	3	0.03
10	318.7699397	-67.8642190	18.7688	0.0691	18.0042	0.0617	16.9478	0.0843	31.0	0.107	0	0.00
11	318.7774610	-67.8640691	18.6705	0.0661	18.2475	0.0806	17.1862	0.1099	18.4	0.338	0	0.09
12	318.7966724	-67.7413022	18.7033	0.0489	18.2306	0.0564	18.0744	0.1758	-55.9	0.084	0	0.78
16	318.9183015	-67.7428901	19.3048	0.0611	19.6682	0.1508	98.8999	99.0000	-70.8	0.198	0	0.28
17	318.7478818	-67.7447660	16.6330	0.0115	15.9240	0.0104	15.4738	0.0240	-42.3	0.326	0	0.03
18	318.7779145	-67.7441820	18.7960	0.0543	18.1887	0.0556	17.7954	0.1393	65.0	0.117	0	0.43
20	318.6793999	-67.7443290	19.5571	0.0882	19.2694	0.1214	19.6684	0.6331	-1.4	0.174	0	0.02
22	318.6444709	-67.7448592	19.1000	0.0513	18.6456	0.0599	18.2776	0.1531	-8.6	0.084	0	0.53
24	318.7646840	-67.7449928	19.4341	0.0912	19.2992	0.1448	18.7076	0.3042	-88.7	0.116	0	0.84
25	318.9103143	-67.7453293	19.8057	0.0984	19.9920	0.2091	19.1419	0.3464	49.7	0.039	0	0.55
26	318.9132128	-67.7454214	19.3930	0.0886	19.3629	0.1548	20.0748	1.0796	-38.8	0.336	0	0.60
28	318.6849453	-67.7468595	19.7222	0.1074	19.0405	0.1035	17.9569	0.1380	68.9	0.122	0	0.06
30	318.7823770	-67.7473266	16.9772	0.0134	16.4763	0.0145	16.2944	0.0432	19.4	0.375	0	0.81
32	318.7592183	-67.7490592	19.5102	0.0981	19.0171	0.1123	19.8623	0.8840	60.4	0.197	3	0.08
33	318.6039415	-67.7484870	19.2301	0.0696	19.9101	0.2318	19.1483	0.4169	38.8	0.039	0	0.41
35	318.8316163	-67.7490740	19.7180	0.0910	18.7087	0.0648	18.0387	0.1258	-89.4	0.185	0	0.64
37	318.8473464	-67.7493877	18.2979	0.0388	17.5947	0.0363	17.1530	0.0868	-65.5	0.102	0	0.02
42	318.6592725	-67.7510224	19.7773	0.1000	19.1615	0.1021	18.6551	0.2311	89.3	0.266	0	0.22
43	318.5835179	-67.7522205	17.7874	0.0415	17.5520	0.0600	17.1728	0.1532	78.3	0.283	0	0.01
44	318.6540753	-67.7516166	19.6412	0.0951	19.2762	0.1221	18.6553	0.2494	66.3	0.226	0	0.58
45	318.6778690	-67.7518346	18.7375	0.0511	18.4277	0.0686	18.0461	0.1740	-25.4	0.020	0	0.81
49	318.8246761	-67.7521346	19.1670	0.0655	18.4282	0.0595	17.6636	0.1060	-48.6	0.012	0	0.19
50	318.8854796	-67.7520064	19.0014	0.0493	18.6511	0.0633	18.4506	0.1889	-84.2	0.129	0	0.30
51	318.6851862	-67.7535040	19.4608	0.1066	19.2313	0.1557	19.0099	0.4602	-86.0	0.231	0	0.11
52	318.8332185	-67.7530894	19.7792	0.0940	19.3032	0.1089	18.6443	0.2144	3.1	0.250	0	0.52
54	318.9090228	-67.7536117	19.9645	0.1303	19.3584	0.1347	19.8218	0.7461	-43.9	0.211	0	0.50
55	318.6768621	-67.7544141	19.9897	0.1170	19.5717	0.1433	18.9860	0.3024	45.3	0.205	0	0.50
56	318.7962357	-67.7547141	19.1053	0.0555	18.6767	0.0665	18.0665	0.1365	68.8	0.255	0	0.45
58	318.6631501	-67.7555808	18.6306	0.0414	17.6405	0.0298	16.8348	0.0507	-81.5	0.272	0	0.11
59	318.8742169	-67.7550134	18.6455	0.0632	17.8868	0.0567	17.3359	0.1233	-54.6	0.300	2	0.01
60	318.7630263	-67.7552122	19.4558	0.1048	18.9423	0.1179	18.5110	0.2869	45.7	0.129	0	0.14
61	318.7552926	-67.7559678	17.1470	0.0198	16.5614	0.0205	16.1481	0.0501	58.5	0.359	0	0.01
63	318.8589557	-67.7554376	19.3631	0.0804	19.0240	0.1056	19.2399	0.4652	-89.9	0.179	0	0.56
64	318.8499989	-67.7558110	18.9868	0.0622	18.3796	0.0638	18.1533	0.1867	-22.2	0.084	0	0.82
65	318.5971614	-67.7571572	17.2055	0.0280	16.7387	0.0327	16.2117	0.0727	-68.6	0.113	0	0.03
66	318.6644796	-67.7577999	20.0181	0.0840	19.4326	0.0874	19.3330	0.2859	19.4	0.004	0	0.58
67	318.8347914	-67.7575787	19.7644	0.0744	18.9810	0.0647	18.2009	0.1131	88.0	0.256	0	0.59
68	318.7517305	-67.7581225	19.3743	0.0610	18.8410	0.0664	18.3503	0.1518	-1.4	0.130	0	0.73
71	318.8312635	-67.7591474	18.4222	0.0329	17.7710	0.0319	18.0948	0.1525	71.2	0.049	0	0.88
73	318.7472639	-67.7599847	19.4186	0.0954	19.2200	0.1431	18.2982	0.2219	-45.5	0.283	0	0.00
77	318.8531362	-67.7604551	16.8839	0.0133	16.1271	0.0116	15.5076	0.0230	86.0	0.156	0	0.05
78	318.7742050	-67.7604603	19.1612	0.0885	19.2567	0.1739	17.7381	0.1559	25.9	0.038	0	0.18
79	318.6189794	-67.7612419	18.9365	0.0460	18.2928	0.0452	18.4394	0.1844	70.0	0.053	0	0.84

Figure A.5: Catalogue for Pavo p0p0

80	318.8565652	-67.7610356	18.5543	0.0558	17.9382	0.0569	17.0558	0.0912	-24.4	0.192	1	0.05
81	318.7306728	-67.7618848	17.0250	0.0139	16.2362	0.0118	15.5775	0.0225	74.8	0.095	0	0.05
82	318.8471427	-67.7617081	18.1346	0.0341	17.5297	0.0348	17.5297	0.1244	61.6	0.065	0	0.46
83	318.5861458	-67.7624301	18.4168	0.0360	17.6571	0.0318	17.1102	0.0687	-70.9	0.088	2	0.10
84	318.5846339	-67.7630647	19.3295	0.0706	19.4232	0.1372	18.9201	0.3124	25.9	0.143	3	0.40
86	318.8381166	-67.7629268	19.2891	0.0749	18.9662	0.0997	18.7479	0.2944	-74.3	0.175	0	0.78
88	318.7056330	-67.7639902	19.6644	0.0726	18.9922	0.0699	19.0140	0.2555	72.7	0.133	0	0.64
89	318.7545276	-67.7642652	18.1603	0.0335	17.8991	0.0466	17.7177	0.1416	10.2	0.435	0	0.34
91	318.8577941	-67.7649276	18.3311	0.0320	17.8666	0.0367	17.8886	0.1337	70.4	0.166	0	0.57
93	318.7702629	-67.7665454	16.4445	0.0168	15.8837	0.0179	15.4342	0.0426	68.7	0.139	0	0.01
94	318.8358757	-67.7664989	18.3966	0.0345	17.7326	0.0332	17.2956	0.0792	81.7	0.189	0	0.87
97	318.6138238	-67.7695194	17.5916	0.0212	16.6844	0.0164	15.8736	0.0275	83.4	0.275	0	0.04
99	318.7673215	-67.7694523	18.9470	0.0765	18.1549	0.0666	17.4918	0.1307	-43.4	0.152	0	0.02
102	318.9181644	-67.7696910	18.7452	0.0469	17.9030	0.0387	17.2073	0.0730	62.5	0.462	0	0.04
104	318.8116264	-67.7705582	19.9584	0.0785	19.5684	0.0973	19.1595	0.2400	45.2	0.121	0	0.49
105	318.6404729	-67.7713692	18.3026	0.0304	17.7796	0.0330	17.4363	0.0857	73.3	0.039	0	0.89
107	318.7875026	-67.7713565	19.3245	0.0750	18.7047	0.0762	18.8336	0.3089	-61.0	0.054	0	0.82
108	318.9048855	-67.7710724	18.6268	0.0575	17.5722	0.0394	16.7587	0.0671	40.5	0.082	0	0.13
109	318.7198373	-67.7721237	18.6896	0.0486	17.8821	0.0415	16.9825	0.0651	-72.9	0.158	0	0.14
110	318.8341019	-67.7716569	19.7204	0.0699	19.0620	0.0679	18.5585	0.1530	1.2	0.141	0	0.74
111	318.9204299	-67.7726205	17.6041	0.0219	16.9296	0.0207	16.2312	0.0388	-80.2	0.269	0	0.02
112	318.8529068	-67.7726431	19.5586	0.1067	19.8979	0.2624	18.6354	0.2979	-86.0	0.230	0	0.40
114	318.7482219	-67.7739980	16.7187	0.0109	15.9505	0.0093	15.3099	0.0179	-60.6	0.090	0	0.04
117	318.7273054	-67.7746605	17.7692	0.0266	16.9926	0.0232	16.2983	0.0437	-51.1	0.102	0	0.02
118	318.8626594	-67.7747438	19.2416	0.0556	18.7485	0.0627	18.1820	0.1336	73.3	0.146	0	0.59
119	318.8033710	-67.7750307	19.0576	0.0761	18.6110	0.0908	18.3047	0.2476	-7.8	0.143	0	0.01
120	318.6028064	-67.7757104	17.8040	0.0362	16.9682	0.0302	16.2940	0.0584	-8.7	0.372	0	0.09
121	318.8512126	-67.7754309	17.7557	0.0284	17.0594	0.0267	16.4674	0.0554	10.8	0.022	0	0.01
124	318.9024948	-67.7775025	18.7347	0.0624	18.1967	0.0684	18.2032	0.2482	-84.7	0.134	0	0.87
125	318.8336731	-67.7784509	18.9174	0.0470	18.1824	0.0425	17.5000	0.0812	38.1	0.061	0	0.33
127	318.7714917	-67.7792447	18.5363	0.0522	17.9572	0.0549	16.9290	0.0770	28.4	0.188	0	0.03
128	318.5940930	-67.7798885	19.1426	0.0698	18.9693	0.1066	18.4771	0.2450	-69.3	0.169	0	0.32
129	318.7085961	-67.7802006	18.3189	0.0341	17.5953	0.0311	16.9550	0.0617	87.5	0.182	0	0.06
130	318.8456152	-67.7796733	18.5735	0.0383	18.0122	0.0405	18.0232	0.1459	-22.0	0.097	0	0.66
131	318.6347902	-67.7806544	18.9912	0.0764	18.0825	0.0599	17.2680	0.1021	-87.9	0.204	0	0.08
132	318.8608530	-67.7810142	19.3062	0.0688	18.9955	0.0923	18.6430	0.2407	-89.0	0.150	0	0.29
135	318.7884729	-67.7816416	19.3506	0.0853	18.4340	0.0662	17.5976	0.1107	43.6	0.278	0	0.01
136	318.9064254	-67.7817719	19.3616	0.0833	18.9771	0.1050	19.4970	0.6122	-83.4	0.205	0	0.85
137	318.7662324	-67.7825510	18.2942	0.0477	17.5628	0.0438	16.9353	0.0885	44.2	0.102	0	0.09
141	318.8568079	-67.7837865	19.1625	0.0554	18.7703	0.0686	18.5935	0.2093	-87.2	0.161	0	0.18
142	318.8159825	-67.7847334	19.6970	0.0989	18.6409	0.0676	18.4961	0.2129	1.6	0.152	0	0.65
143	318.8595865	-67.7846040	19.4964	0.0924	19.5572	0.1753	18.4328	0.2258	-0.5	0.343	3	0.20
145	318.6189215	-67.7866613	19.1477	0.0531	18.7327	0.0643	18.8244	0.2509	-79.8	0.179	0	0.64
146	318.5809125	-67.7868985	18.7497	0.0427	18.2039	0.0458	18.2991	0.1787	75.4	0.169	16	0.49
148	318.9020509	-67.7874359	18.4567	0.0414	17.9744	0.0473	17.6325	0.1240	89.3	0.099	0	0.33
149	318.7536470	-67.7882708	19.3951	0.0686	19.0513	0.0892	18.8118	0.2577	-72.0	0.174	0	0.34
150	318.8683269	-67.7884184	17.7118	0.0290	17.0957	0.0293	16.4538	0.0583	48.7	0.100	0	0.03
151	318.6426252	-67.7898378	18.8945	0.0695	18.3156	0.0734	18.1605	0.2299	3.0	0.258	2	0.17
152	318.8996463	-67.7894029	19.2612	0.0812	18.5808	0.0782	18.4057	0.2402	-72.2	0.210	0	0.79

Figure A.6: Catalogue for Pavo p0p0 (cont.)

154	318.6113747	-67.7907529	18.3049	0.0426	17.3755	0.0326	16.5336	0.0539	-74.4	0.118	0	0.07
158	318.6946629	-67.7915941	19.1416	0.0555	18.5165	0.0556	18.4680	0.1906	-62.2	0.107	0	0.68
161	318.9108843	-67.7940938	18.4986	0.0480	17.7518	0.0434	17.2523	0.0984	63.5	0.376	0	0.01
162	318.6743680	-67.7963875	18.4461	0.0424	17.8794	0.0449	17.8559	0.1576	-70.8	0.103	0	0.56
163	318.9080628	-67.7960109	18.8821	0.0464	18.2673	0.0468	18.6520	0.2382	82.6	0.154	0	0.48
166	318.7969061	-67.7970089	18.5753	0.0506	17.7900	0.0441	17.0311	0.0790	-25.3	0.177	0	0.03
168	318.7464536	-67.7970686	19.2290	0.0732	18.3956	0.0613	19.1953	0.4596	-16.2	0.074	0	0.80
170	318.7937109	-67.7975413	18.6139	0.0547	17.7344	0.0438	17.0847	0.0868	78.0	0.037	0	0.37
171	318.7386870	-67.7979038	18.2804	0.0496	17.4812	0.0428	17.2149	0.1208	76.6	0.110	0	0.02
172	318.7434086	-67.7980462	18.4862	0.0576	17.7264	0.0516	17.0649	0.1013	17.0	0.210	0	0.01
173	318.8352140	-67.7982626	19.5277	0.0644	19.1040	0.0773	18.9039	0.2309	-74.7	0.196	0	0.10
177	318.6263598	-67.8002930	19.2793	0.0610	18.7896	0.0693	18.6577	0.2204	-58.8	0.172	0	0.85
178	318.7361188	-67.8011805	17.9323	0.0245	17.2535	0.0231	17.1794	0.0764	-25.2	0.008	0	0.80
180	318.7405151	-67.8027809	18.8155	0.0574	18.5950	0.0838	18.6119	0.3072	82.6	0.144	0	0.19
181	318.6574437	-67.8032122	18.6591	0.0480	17.9760	0.0458	18.1711	0.1967	76.6	0.164	0	0.76
182	318.7484283	-67.8031731	19.5148	0.1030	18.6109	0.0810	17.8275	0.1423	-48.1	0.317	0	0.02
185	318.5907599	-67.8050935	19.7519	0.0971	18.9917	0.0868	18.6470	0.2279	-72.7	0.237	0	0.30
186	318.5844390	-67.8062184	18.3251	0.0353	17.6075	0.0325	16.9455	0.0632	-54.6	0.145	0	0.03
187	318.7815868	-67.8060282	18.3865	0.0492	17.7937	0.0512	16.9764	0.0871	5.0	0.202	0	0.00
189	318.7880344	-67.8068088	18.9414	0.0695	17.9845	0.0520	17.2159	0.0925	-40.6	0.089	0	0.14
190	318.8143231	-67.8069432	18.4342	0.0494	17.6070	0.0415	17.0432	0.0890	-32.9	0.242	0	0.01
191	318.8850418	-67.8066886	19.5071	0.0669	18.9830	0.0735	18.4465	0.1613	-35.3	0.010	0	0.69
192	318.8796503	-67.8068924	19.5900	0.0659	18.8600	0.0600	18.0255	0.0998	80.0	0.111	0	0.63
194	318.6620409	-67.8081006	19.8960	0.1037	19.1673	0.0955	18.7490	0.2342	-61.6	0.360	0	0.55
195	318.9150150	-67.8078849	18.7377	0.0425	18.1777	0.0450	18.0757	0.1464	-36.0	0.241	0	0.66
198	318.9078082	-67.8090941	19.3513	0.0934	18.9465	0.1159	17.7799	0.1435	66.1	0.268	0	0.06
199	318.8274024	-67.8096693	18.1573	0.0352	17.5968	0.0375	17.5278	0.1260	-63.2	0.047	0	0.87
201	318.7372699	-67.8109661	17.9536	0.0244	17.3212	0.0240	17.3721	0.0888	-39.3	0.028	0	0.77
203	318.7724593	-67.8110708	19.6787	0.1011	19.4402	0.1459	19.0412	0.3658	-59.6	0.201	0	0.72
205	318.6137255	-67.8127460	17.9065	0.0240	17.3297	0.0247	16.9967	0.0646	-68.2	0.056	0	0.71
207	318.7397223	-67.8131770	16.7872	0.0124	16.1943	0.0125	15.9551	0.0352	2.7	0.210	3	0.82
208	318.7378349	-67.8134968	17.0216	0.0171	16.3451	0.0162	15.6350	0.0301	9.2	0.137	3	0.03
209	318.8363078	-67.8133165	18.4183	0.0334	17.7427	0.0318	17.8772	0.1276	-19.7	0.054	0	0.85
210	318.8060260	-67.8135454	18.6307	0.0532	17.8154	0.0452	17.3296	0.1039	-67.7	0.178	0	0.42
212	318.8731536	-67.8132271	19.7719	0.0799	18.7335	0.0553	18.0970	0.1102	2.0	0.193	0	0.59
213	318.6015232	-67.8146957	19.0616	0.0493	18.6300	0.0586	18.7674	0.2381	-7.0	0.079	0	0.64
214	318.6853095	-67.8145513	19.6435	0.1060	18.7757	0.0862	17.6286	0.1084	-9.2	0.404	0	0.00
217	318.7261783	-67.8154190	19.4885	0.0978	18.6164	0.0792	18.8737	0.3620	74.7	0.288	0	0.28
218	318.8470019	-67.8151049	19.7053	0.0826	20.0281	0.1978	20.5468	1.1538	42.7	0.141	0	0.46
221	318.5813761	-67.8170199	19.5763	0.0795	19.0460	0.0874	20.2715	0.9721	-28.5	0.198	16	0.58
223	318.6897578	-67.8177745	18.8232	0.0570	18.4976	0.0756	18.0519	0.1810	78.0	0.208	0	0.04
224	318.6863843	-67.8179109	18.5506	0.0477	18.2950	0.0672	17.9925	0.1835	53.3	0.049	0	0.69
225	318.6291997	-67.8183697	19.3762	0.0786	18.5074	0.0637	18.1077	0.1585	-72.1	0.067	0	0.78
227	318.9128726	-67.8197905	18.6211	0.0387	18.2581	0.0489	17.7237	0.1073	79.7	0.050	0	0.86
228	318.8808722	-67.8199761	19.1079	0.0734	19.2497	0.1498	19.0511	0.4519	72.7	0.215	0	0.75
229	318.6001635	-67.8207351	18.5402	0.0359	17.9261	0.0361	17.6905	0.1035	14.5	0.061	0	0.76
232	318.6937682	-67.8211399	19.1482	0.0716	18.2859	0.0584	17.2251	0.0793	-76.8	0.170	0	0.19
235	318.5929777	-67.8220863	17.8844	0.0322	16.9594	0.0247	16.1601	0.0423	-82.1	0.099	3	0.01
236	318.5904850	-67.8226129	16.9686	0.0172	16.1988	0.0150	15.6712	0.0329	-2.7	0.236	3	0.02

Figure A.7: Catalogue for Pavo p0p0 (cont.)

238	318.6994457	-67.8226610	19.5177	0.0976	19.7538	0.2177	98.8999	99.0000	-89.9	0.184	0	0.66
239	318.9151070	-67.8232539	19.3628	0.0583	18.3765	0.0422	18.5771	0.1800	-37.4	0.045	0	0.48
240	318.7302160	-67.8242394	18.4659	0.0580	17.7373	0.0535	16.8609	0.0863	-60.0	0.159	0	0.00
241	318.7976570	-67.8246213	17.2922	0.0168	16.6299	0.0159	16.1622	0.0365	-53.8	0.033	0	0.03
242	318.9084516	-67.8246468	18.4694	0.0608	18.0161	0.0722	17.7427	0.2030	54.1	0.260	0	0.00
243	318.8230323	-67.8251585	19.3140	0.0945	18.8454	0.1107	17.6093	0.1286	31.3	0.349	0	0.40
244	318.5886079	-67.8263104	19.7814	0.0729	18.8723	0.0565	18.7259	0.1760	72.8	0.063	0	0.38
246	318.7822644	-67.8262736	18.2883	0.0598	17.6109	0.0579	17.2804	0.1545	12.1	0.203	0	0.00
249	318.5941378	-67.8276378	17.5247	0.0257	16.6822	0.0211	15.8638	0.0356	65.3	0.190	0	0.03
250	318.8446490	-67.8273812	18.6095	0.0441	17.9762	0.0439	17.5563	0.1070	-72.7	0.084	0	0.69
252	318.7162596	-67.8290777	18.0068	0.0428	17.2510	0.0384	16.5528	0.0729	-68.8	0.362	0	0.00
253	318.7746870	-67.8298286	18.3352	0.0390	17.9070	0.0468	17.8084	0.1534	-88.2	0.159	0	0.61
254	318.6276224	-67.8299455	19.5589	0.0681	19.3333	0.0982	18.8001	0.2166	-73.6	0.184	0	0.57
255	318.6892838	-67.8300661	17.9927	0.0247	17.8625	0.0380	17.6179	0.1084	68.7	0.021	0	0.57
256	318.6533061	-67.8305004	18.1139	0.0358	17.3711	0.0324	16.6291	0.0587	-58.7	0.313	0	0.48
257	318.6733787	-67.8308516	18.7596	0.0585	18.1651	0.0608	17.6067	0.1312	-15.7	0.109	0	0.05
258	318.7939942	-67.8306973	19.7551	0.0703	19.4171	0.0912	18.7828	0.1830	-6.5	0.012	0	0.68
259	318.7562433	-67.8312140	18.6615	0.0547	17.9566	0.0513	17.3623	0.1070	34.1	0.086	0	0.07
264	318.8277562	-67.8332859	18.8587	0.0704	18.5218	0.0929	18.2338	0.2579	2.8	0.102	0	0.02
265	318.7577293	-67.8334745	19.8223	0.0886	19.3596	0.1035	19.0943	0.2923	82.9	0.163	0	0.13
267	318.6690224	-67.8353136	18.1293	0.0475	17.7562	0.0605	17.0846	0.1179	-9.2	0.266	0	0.00
268	318.7767007	-67.8355302	18.2117	0.0594	17.6743	0.0654	17.1853	0.1508	-53.2	0.458	0	0.00
269	318.8320109	-67.8363536	19.7411	0.0685	19.7724	0.1243	18.8495	0.1918	52.3	0.335	0	0.59
270	318.6501121	-67.8368334	19.2039	0.0732	18.4111	0.0635	17.6629	0.1150	83.8	0.065	0	0.58
271	318.8208495	-67.8371671	19.3569	0.0570	18.8643	0.0642	18.6526	0.1892	43.4	0.141	0	0.80
275	318.7926737	-67.8410079	19.4625	0.0643	19.1312	0.0841	18.8284	0.2289	3.7	0.093	0	0.04
276	318.6986998	-67.8414548	19.1208	0.0822	18.7202	0.1025	17.7095	0.1463	-21.3	0.115	0	0.17
277	318.8319456	-67.8420232	16.8100	0.0135	16.1240	0.0125	15.6243	0.0279	45.1	0.301	0	0.03
279	318.8095767	-67.8425567	19.0196	0.0599	18.7516	0.0835	18.8618	0.3334	30.2	0.138	0	0.83
281	318.8555582	-67.8427536	19.3781	0.0779	18.9103	0.0909	18.7835	0.2918	75.2	0.091	0	0.15
283	318.8869010	-67.8445932	17.1390	0.0193	16.3266	0.0162	15.6341	0.0306	-71.2	0.113	3	0.03
285	318.8720466	-67.8452880	16.5410	0.0094	16.1310	0.0108	16.0994	0.0365	16.3	0.342	0	0.69
286	318.5900841	-67.8462522	18.9803	0.0529	18.3104	0.0510	18.7227	0.2669	28.4	0.146	0	0.32
288	318.8811609	-67.8459013	19.3738	0.1004	18.8470	0.1116	17.8887	0.1673	59.3	0.416	0	0.34
289	318.5981124	-67.8469588	18.8396	0.0519	18.5821	0.0729	18.3020	0.2031	87.0	0.176	0	0.83
290	318.6455809	-67.8470303	18.9791	0.0702	18.1500	0.0591	17.1959	0.0886	27.3	0.212	0	0.11
291	318.6567878	-67.8469595	19.4869	0.0708	19.1040	0.0887	18.9800	0.2849	-0.8	0.177	0	0.41
294	318.8327288	-67.8470110	19.8523	0.1091	18.6499	0.0653	17.6512	0.0939	-87.7	0.193	0	0.59
295	318.7310834	-67.8479534	18.6403	0.0507	17.8989	0.0460	17.5252	0.1171	30.1	0.090	0	0.33
297	318.6502865	-67.8485073	19.0917	0.0653	18.9309	0.1007	18.0039	0.1551	60.0	0.098	0	0.60
298	318.6572720	-67.8485435	19.2034	0.0566	18.3110	0.0446	17.8020	0.0998	-42.6	0.085	0	0.46
299	318.5972706	-67.8501002	19.0103	0.0494	18.5399	0.0568	18.5290	0.2016	47.8	0.054	0	0.79
300	318.7057525	-67.8502442	18.3037	0.0384	17.7000	0.0392	16.8696	0.0657	-40.3	0.072	0	0.01
301	318.7377270	-67.8509624	19.5415	0.0962	19.8086	0.2208	19.1929	0.4543	-48.6	0.323	0	0.64
302	318.8873620	-67.8512453	18.1435	0.0362	17.3334	0.0307	16.5580	0.0540	-79.7	0.052	0	0.08
305	318.6356614	-67.8530696	18.3890	0.0565	17.5883	0.0488	17.0207	0.1044	-7.8	0.122	0	0.00
307	318.6738189	-67.8533021	19.3717	0.0880	18.6366	0.0807	17.9138	0.1498	45.0	0.141	0	0.12
308	318.6654442	-67.8537397	17.4074	0.0165	16.7546	0.0157	16.1725	0.0323	-68.7	0.112	0	0.14
309	318.6716648	-67.8540272	19.5616	0.1066	19.2812	0.1484	18.5590	0.2766	63.2	0.092	0	0.18

Figure A.8: Catalogue for Pavo p0p0 (cont.)

310	318.8865407	-67.8536854	19.4434	0.0983	18.8692	0.1046	18.8473	0.3705	90.0	0.396	0	0.01
311	318.8015569	-67.8549590	19.3244	0.0579	19.1495	0.0871	19.1849	0.3237	82.6	0.298	0	0.53
312	318.5913402	-67.8556149	19.7765	0.1069	18.9641	0.0913	18.7671	0.2747	46.4	0.134	0	0.68
314	318.5831013	-67.8563367	18.3354	0.0416	17.6552	0.0398	17.3415	0.1071	33.6	0.135	16	0.02
317	318.8439029	-67.8567648	19.5243	0.1089	18.3757	0.0686	17.8411	0.1513	-42.5	0.150	0	0.01
318	318.8139117	-67.8575487	18.0390	0.0361	17.3045	0.0329	16.7781	0.0728	69.2	0.395	0	0.01
319	318.8465777	-67.8570996	19.1776	0.0868	18.5695	0.0895	18.1798	0.2261	-30.9	0.215	0	0.44
321	318.8358843	-67.8576923	18.1766	0.0284	17.4763	0.0263	16.7319	0.0471	67.7	0.198	0	0.47
322	318.7163809	-67.8578411	19.1910	0.0523	18.6880	0.0584	18.4182	0.1630	-18.1	0.085	0	0.86
326	318.6291686	-67.8585521	19.2752	0.0866	18.5289	0.0786	17.8907	0.1578	-56.3	0.315	0	0.00
327	318.8066307	-67.8587909	18.6712	0.0606	18.0766	0.0631	17.0982	0.0927	-86.3	0.183	0	0.06
328	318.6711686	-67.8596914	18.1856	0.0302	17.6317	0.0321	17.3226	0.0860	30.5	0.218	0	0.67
329	318.9085959	-67.8601684	18.9359	0.0626	18.2539	0.0601	18.5442	0.2825	81.0	0.162	0	0.55
331	318.8869615	-67.8607389	18.7112	0.0426	18.0644	0.0417	17.1805	0.0664	15.2	0.139	0	0.17
333	318.8519485	-67.7418980	19.1872	0.0861	18.7203	0.1009	18.3914	0.2698	52.6	0.121	0	0.34
336	318.6327175	-67.8623335	19.1049	0.0799	18.4627	0.0798	18.6101	0.3299	36.1	0.234	0	0.28
337	318.7745725	-67.8632522	18.8683	0.0700	18.7152	0.1093	17.7542	0.1634	-69.0	0.078	0	0.71
339	318.7915841	-67.7396150	19.3523	0.0603	18.9601	0.0747	19.0210	0.2835	-75.0	0.073	0	0.50
340	318.6232856	-67.7434382	18.8227	0.0491	16.5819	0.0118	15.8613	0.0210	75.9	0.478	0	0.89
341	318.7787022	-67.7428540	19.1302	0.0805	18.1294	0.0580	17.3552	0.1025	-49.9	0.120	0	0.19
342	318.7819030	-67.7404920	18.4853	0.0407	18.0344	0.0478	17.1377	0.0753	-63.8	0.155	0	0.31
343	318.6400174	-67.7406365	19.3574	0.0616	19.3189	0.1053	19.5521	0.4701	24.0	0.099	0	0.31
344	318.8313994	-67.7407582	19.1731	0.0548	18.4159	0.0487	17.6264	0.0843	-61.6	0.061	0	0.06
345	318.6309112	-67.7411398	19.4854	0.0789	19.4491	0.1362	19.2427	0.4074	0.7	0.139	0	0.73

Figure A.9: Catalogue for Pavo p0p0 (cont.)

4	319.1079297	-67.8633985	19.2297	0.0541	18.2676	0.0396	17.4028	0.0650	89.7	0.195	0	0.70
5	319.1343010	-67.8645832	18.2241	0.0426	17.7279	0.0478	17.0706	0.0959	-25.6	0.360	24	0.00
6	318.9974916	-67.7399479	19.5587	0.0662	18.6924	0.0528	18.6792	0.1896	-50.2	0.206	0	0.62
7	319.1114258	-67.7397957	19.0339	0.0771	18.6437	0.0959	17.8909	0.1771	-44.6	0.214	0	0.65
10	318.9833209	-67.7411581	18.9773	0.0547	18.4022	0.0570	17.4698	0.0887	-6.7	0.118	0	0.10
11	319.0035512	-67.7424800	18.8738	0.0547	18.2724	0.0557	18.7205	0.3080	9.4	0.455	0	0.71
12	319.1484224	-67.7426538	19.8155	0.0840	19.5851	0.1198	19.3317	0.3489	-49.4	0.315	0	0.51
14	319.0278791	-67.7431962	19.5242	0.0743	19.2676	0.1035	18.1375	0.1348	-13.3	0.176	0	0.65
15	319.1340974	-67.7434656	17.2930	0.0199	16.6150	0.0186	15.8684	0.0341	-28.7	0.191	0	0.02
19	318.9487306	-67.7465254	18.6483	0.0565	18.6615	0.1014	17.8631	0.1795	35.6	0.127	0	0.87
20	319.0980977	-67.7463626	19.0723	0.0789	18.4020	0.0760	17.3474	0.1062	-43.5	0.100	0	0.64
22	319.1501349	-67.7473311	18.7640	0.0702	18.3748	0.0875	17.7755	0.1860	-60.0	0.038	0	0.00
23	318.9324656	-67.7491707	18.7718	0.0543	17.7802	0.0389	17.5701	0.1169	31.9	0.127	0	0.65
24	319.1464087	-67.7488093	18.7620	0.0438	17.7581	0.0309	17.1077	0.0616	-81.6	0.104	0	0.23
25	319.0938820	-67.7490452	18.7035	0.0466	17.8925	0.0391	17.1818	0.0743	68.5	0.043	0	0.10
26	319.0066133	-67.7494775	18.0383	0.0265	17.2692	0.0229	16.7815	0.0527	-66.2	0.131	0	0.85
27	318.9510380	-67.7496814	18.8876	0.0585	18.4210	0.0675	18.7187	0.3259	62.9	0.155	0	0.70
32	319.1646358	-67.7507533	19.4844	0.0619	18.8621	0.0615	18.2491	0.1278	89.1	0.094	0	0.67
33	318.9263591	-67.7514575	18.6232	0.0591	18.9224	0.1380	17.5583	0.1454	-39.3	0.312	0	0.59
34	319.0948105	-67.7513990	18.2201	0.0468	17.9033	0.0621	17.6662	0.1839	-24.7	0.152	0	0.42
35	319.1858486	-67.7510539	19.4031	0.0938	18.6263	0.0820	18.3311	0.2300	-8.6	0.049	0	0.70
36	318.8856343	-67.7520365	19.5994	0.0951	18.7258	0.0761	18.9700	0.3497	0.7	0.198	0	0.71
37	319.0665809	-67.7519799	17.9228	0.0306	17.1220	0.0259	16.1994	0.0405	-40.9	0.021	0	0.02
38	318.9395052	-67.7521917	19.2599	0.0802	18.4252	0.0664	18.1790	0.1945	-72.9	0.114	0	0.06
39	319.2161493	-67.7518240	18.8346	0.0684	18.3442	0.0776	17.9424	0.1976	69.1	0.241	0	0.28
41	319.0210146	-67.7550313	19.5306	0.1087	19.2644	0.1519	19.9114	1.0181	88.1	0.198	3	0.47
42	318.9533419	-67.7534742	19.2173	0.0923	18.3573	0.0749	17.4896	0.1242	60.7	0.198	0	0.06
43	318.9089872	-67.7535778	19.7466	0.1064	19.1351	0.1081	19.3142	0.4694	-65.0	0.019	0	0.66
44	319.1156518	-67.7532110	19.8881	0.1090	19.5641	0.1439	19.3751	0.4460	-56.0	0.168	0	0.53
45	318.9904236	-67.7536973	19.0306	0.0629	18.8466	0.0939	17.8309	0.1360	-68.4	0.092	0	0.51
47	319.2075280	-67.7533204	19.4730	0.0730	18.8116	0.0705	18.2479	0.1538	-14.7	0.205	0	0.58
48	319.1898979	-67.7544716	18.6394	0.0484	18.0139	0.0482	17.8837	0.1565	-27.4	0.114	0	0.59
50	319.0156363	-67.7572574	18.9821	0.0903	18.9115	0.1510	18.4815	0.3760	40.9	0.307	0	0.01
52	319.1193915	-67.7577531	19.5644	0.0927	19.4090	0.1427	18.6254	0.2561	-90.0	0.108	0	0.71
53	319.1843381	-67.7585717	19.2604	0.0903	18.6469	0.0917	18.0212	0.1901	35.5	0.237	0	0.29
54	319.0022984	-67.7599121	19.8260	0.0856	19.7500	0.1407	19.5955	0.4494	-25.5	0.363	0	0.58
55	319.1494599	-67.7607713	19.3606	0.0922	18.6520	0.0858	17.9137	0.1603	79.4	0.371	0	0.17
56	319.1655795	-67.7620933	19.3753	0.0904	18.6162	0.0803	17.7749	0.1364	10.3	0.249	0	0.10
59	319.1340947	-67.7625663	18.6269	0.0512	18.2268	0.0627	17.8561	0.1639	-76.1	0.176	0	0.58
60	319.1511432	-67.7624296	19.2350	0.0678	19.1855	0.1144	18.1017	0.1557	86.0	0.188	0	0.34
61	318.9271092	-67.7631786	18.6528	0.0506	18.1671	0.0573	17.4535	0.1092	60.9	0.322	0	0.03
62	319.1480308	-67.7625523	19.6810	0.1151	19.8339	0.2360	98.8985	99.0000	48.0	0.149	0	0.52
63	319.1130067	-67.7632363	18.6650	0.0662	18.3180	0.0857	17.4513	0.1424	40.8	0.084	0	0.05
66	319.1910293	-67.7643313	18.3770	0.0477	18.0797	0.0643	17.2684	0.1122	-28.8	0.209	0	0.08
67	319.0070012	-67.7653384	16.6935	0.0111	16.0469	0.0105	15.7596	0.0286	-68.7	0.065	0	0.05
69	319.0728833	-67.7660767	19.1428	0.0514	18.5312	0.0514	18.3408	0.1573	-16.0	0.156	0	0.85
70	319.0495134	-67.7666049	18.9134	0.0694	18.1359	0.0605	17.4328	0.1166	-40.4	0.057	0	0.68
71	318.9036676	-67.7669198	19.7301	0.0770	18.8503	0.0609	18.3364	0.1385	-76.2	0.135	0	0.18
74	319.1802593	-67.7667769	19.1032	0.0640	18.2791	0.0533	18.2538	0.1906	4.6	0.114	0	0.86

Figure A.10: Catalogue for Pavo p1p0

75	319.0276549	-67.7674076	19.1522	0.0690	18.4527	0.0644	17.8738	0.1389	-15.5	0.004	0	0.04
76	319.1923301	-67.7674126	17.6460	0.0275	17.1680	0.0311	16.7938	0.0807	1.8	0.024	0	0.02
78	319.0944872	-67.7681603	18.8407	0.0524	18.0854	0.0464	17.5403	0.1028	-17.4	0.272	0	0.00
79	319.0386497	-67.7686288	19.1723	0.0519	18.5837	0.0530	18.3284	0.1529	-50.4	0.072	0	0.80
82	318.9181307	-67.7697007	18.8720	0.0541	17.8758	0.0386	17.0631	0.0667	56.2	0.327	0	0.00
86	319.0920183	-67.7700549	18.4782	0.0349	17.9653	0.0380	17.9084	0.1311	-88.4	0.058	0	0.84
87	318.9048531	-67.7710930	18.6383	0.0447	17.8916	0.0398	16.9789	0.0628	4.7	0.206	0	0.20
88	319.1749989	-67.7704400	19.6389	0.0650	18.8624	0.0562	18.2966	0.1215	89.0	0.137	0	0.55
90	318.9205158	-67.7726081	17.4395	0.0231	16.7495	0.0216	16.0871	0.0427	89.6	0.247	0	0.01
92	318.9301946	-67.7734199	19.7837	0.0848	18.9674	0.0711	17.9011	0.0978	-76.2	0.046	0	0.39
94	319.0297960	-67.7733631	19.5416	0.0652	19.1330	0.0786	19.3459	0.3498	18.4	0.196	0	0.65
97	319.1989341	-67.7740148	19.4851	0.0662	18.6153	0.0527	18.0215	0.1113	-66.2	0.098	0	0.29
99	319.1009390	-67.7747187	19.9511	0.0858	19.4607	0.0964	19.6923	0.4373	-88.7	0.265	0	0.54
100	319.0721884	-67.7748522	19.7983	0.1127	18.8197	0.0820	18.1809	0.1675	0.6	0.188	0	0.42
101	319.1422075	-67.7750303	19.2959	0.0970	18.7861	0.1084	18.2129	0.2360	46.0	0.164	0	0.25
103	318.9862722	-67.7767636	19.2689	0.0739	18.2287	0.0507	17.3466	0.0825	40.0	0.141	0	0.05
105	318.9024627	-67.7775310	19.2010	0.0569	18.6802	0.0621	18.1894	0.1447	-69.0	0.028	0	0.55
106	319.0770723	-67.7774848	19.4158	0.0890	18.8436	0.0937	18.4206	0.2338	-86.0	0.087	0	0.67
108	319.1086551	-67.7800395	16.5646	0.0118	15.8101	0.0102	15.1660	0.0202	67.0	0.583	0	0.02
109	319.1316562	-67.7797964	20.0056	0.0819	19.3790	0.0812	19.2039	0.2523	68.6	0.122	0	0.63
111	318.9063135	-67.7817914	19.4658	0.0808	18.9647	0.0904	18.5582	0.2289	72.5	0.183	0	0.67
112	319.1298637	-67.7815740	19.4142	0.0632	19.2764	0.0977	19.5644	0.4674	78.4	0.173	0	0.70
115	319.1891776	-67.7825453	18.6150	0.0572	18.2562	0.0731	17.8153	0.1794	-49.4	0.039	0	0.46
116	319.2149759	-67.7832495	18.9781	0.0721	18.6015	0.0907	17.6126	0.1347	-89.1	0.083	0	0.10
118	319.0534929	-67.7856493	18.8487	0.0641	18.3717	0.0735	18.0300	0.1977	-46.8	0.090	0	0.78
119	319.1027502	-67.7857930	18.3889	0.0356	17.7514	0.0348	17.0884	0.0689	-88.1	0.258	0	0.01
121	319.0314478	-67.7863660	19.5098	0.0781	19.3638	0.1207	18.6842	0.2380	-73.8	0.166	0	0.67
124	318.8996119	-67.7894366	19.2559	0.0871	18.5247	0.0794	18.3234	0.2429	-51.8	0.173	0	0.71
125	319.1918403	-67.7887774	19.6145	0.1083	19.0241	0.1124	18.2856	0.2101	-58.7	0.104	0	0.01
128	319.1106283	-67.7899453	19.5310	0.0796	18.7686	0.0702	18.0979	0.1389	-10.1	0.265	0	0.58
129	319.1425330	-67.7900188	19.2130	0.0879	18.7223	0.0998	18.5317	0.3089	2.1	0.096	0	0.03
132	319.1869155	-67.7926374	18.5260	0.0692	17.8141	0.0643	17.3005	0.1478	8.2	0.055	0	0.03
133	318.9685870	-67.7935691	19.1091	0.0711	18.1881	0.0544	17.4041	0.0970	55.0	0.017	0	0.04
134	318.9108840	-67.7941152	18.7031	0.0468	17.9177	0.0402	17.3744	0.0891	80.2	0.253	0	0.11
136	319.1479473	-67.7947766	19.1118	0.0762	18.5479	0.0808	18.0753	0.1927	-63.5	0.091	0	0.02
137	318.9446042	-67.7953972	19.5520	0.0980	19.1025	0.1155	18.5210	0.2495	46.4	0.219	0	0.55
138	319.1382809	-67.7955633	18.7864	0.0518	18.3071	0.0589	17.9615	0.1573	88.8	0.162	0	0.83
140	318.9362589	-67.7963076	17.5411	0.0230	16.7748	0.0200	15.9831	0.0351	68.7	0.099	0	0.04
142	319.1838612	-67.7957937	18.5452	0.0626	17.7692	0.0548	17.4248	0.1468	-60.9	0.214	2	0.04
145	319.1798862	-67.7972069	18.6448	0.0389	17.9338	0.0356	17.8733	0.1220	-71.8	0.096	0	0.83
146	318.8969990	-67.7978449	19.7155	0.1040	19.4952	0.1511	19.6611	0.6496	88.9	0.255	0	0.67
147	319.2061196	-67.7985669	16.9159	0.0136	16.2357	0.0126	15.5470	0.0240	25.1	0.222	0	0.05
148	319.2005162	-67.7990096	19.1885	0.0567	18.4131	0.0491	18.1944	0.1465	-41.8	0.070	0	0.83
149	319.2211005	-67.7993930	19.3885	0.0687	18.3713	0.0480	18.4178	0.1824	-28.1	0.275	24	0.64
150	319.1339694	-67.7999151	19.0281	0.0635	18.8222	0.0930	18.5182	0.2591	85.0	0.138	0	0.25
151	318.9464135	-67.8005065	18.2170	0.0307	17.3481	0.0243	16.6268	0.0454	-33.2	0.059	0	0.18
152	318.9975737	-67.8017931	18.8029	0.0692	17.9602	0.0570	17.1756	0.1019	49.4	0.235	0	0.09
153	319.1658614	-67.8021206	17.6594	0.0258	16.7915	0.0205	16.0716	0.0384	63.8	0.061	3	0.07
155	318.9593521	-67.8022580	19.4066	0.0985	19.1695	0.1412	18.4550	0.2703	-16.8	0.139	0	0.57

Figure A.11: Catalogue for Pavo p1p0 (cont.)

156	319.0612049	-67.8022856	19.1514	0.0841	18.8253	0.1110	18.4848	0.2995	2.7	0.134	0	0.43
157	318.9759305	-67.8026370	19.5454	0.0987	19.1077	0.1177	19.1134	0.4362	-89.6	0.254	0	0.51
159	319.1575777	-67.8037137	19.7733	0.0990	19.0274	0.0888	18.3504	0.1751	-43.9	0.272	0	0.07
160	319.1862485	-67.8060674	15.7722	0.0076	15.0577	0.0068	14.4238	0.0135	71.5	0.091	2	0.03
162	319.1905033	-67.8074210	17.3851	0.0280	16.7369	0.0273	16.2054	0.0614	-39.9	0.315	3	0.02
165	318.8849504	-67.8066673	19.5591	0.0725	18.8534	0.0671	18.7577	0.2247	0.1	0.164	0	0.72
168	319.0224978	-67.8084533	19.6642	0.0960	18.8221	0.0790	19.0250	0.3494	-42.9	0.129	0	0.67
171	319.1867221	-67.8094095	17.9036	0.0385	17.5323	0.0485	17.6777	0.2038	-75.5	0.078	0	0.67
173	319.1014229	-67.8111155	17.3992	0.0205	16.6364	0.0178	15.9143	0.0333	-73.1	0.125	3	0.03
175	318.9434124	-67.8114933	17.8352	0.0269	17.2487	0.0275	16.9496	0.0759	64.1	0.256	0	0.01
177	319.0904177	-67.8131650	19.1140	0.0681	18.4381	0.0650	18.3804	0.2263	25.3	0.102	0	0.82
178	319.1718811	-67.8136958	19.3758	0.0579	18.9634	0.0695	18.5780	0.1783	87.8	0.198	0	0.50
179	318.9602388	-67.8142773	19.7238	0.1065	18.9294	0.0916	18.5371	0.2349	70.1	0.082	0	0.52
180	319.0917762	-67.8141887	18.8051	0.0591	18.3574	0.0695	18.3452	0.2528	-3.7	0.089	0	0.88
183	318.9798944	-67.8167616	19.7862	0.0713	19.2394	0.0759	19.8111	0.4681	-73.2	0.231	0	0.67
185	319.2034572	-67.8165600	18.1347	0.0358	17.4133	0.0326	16.9470	0.0776	-47.5	0.070	0	0.15
186	319.2096748	-67.8168265	17.0535	0.0169	16.3240	0.0151	15.7524	0.0322	50.3	0.047	0	0.07
187	319.1497098	-67.8166165	19.6134	0.0673	18.4998	0.0430	17.5663	0.0663	-27.8	0.320	0	0.50
188	319.2006679	-67.8165378	19.6901	0.1011	19.2991	0.1256	18.9228	0.3275	-27.8	0.119	0	0.57
191	319.1783380	-67.8181992	18.2100	0.0425	18.1270	0.0695	17.6140	0.1597	-57.1	0.053	0	0.34
200	319.0829774	-67.8203256	19.6049	0.1010	18.9904	0.1023	18.3179	0.2031	-62.4	0.304	0	0.01
202	319.1166462	-67.8212859	17.8247	0.0360	17.0116	0.0303	16.1440	0.0501	-4.8	0.070	0	0.01
203	319.1052709	-67.8213247	19.3485	0.0685	18.5773	0.0598	19.2313	0.3989	-78.6	0.175	0	0.64
206	318.9150563	-67.8232732	19.1777	0.0530	18.5563	0.0526	18.4657	0.1764	77.8	0.106	0	0.77
208	319.0951426	-67.8232316	19.6379	0.1030	19.0371	0.1058	18.1098	0.1661	18.7	0.134	0	0.65
211	319.1450244	-67.8234537	19.5678	0.1043	19.2470	0.1384	18.3209	0.2179	-26.3	0.369	0	0.32
212	318.9081047	-67.8247171	18.1848	0.0563	17.5941	0.0584	17.1298	0.1404	-60.5	0.263	0	0.03
214	319.1278883	-67.8246418	18.8833	0.0480	17.9289	0.0354	17.5584	0.0915	79.8	0.078	0	0.01
215	318.9832365	-67.8252637	18.9732	0.0478	18.3754	0.0485	18.2464	0.1570	62.9	0.131	0	0.80
216	319.0414008	-67.8249865	19.3794	0.0868	18.5487	0.0722	17.7885	0.1320	44.9	0.273	0	0.50
217	319.0500796	-67.8254834	19.1262	0.0551	18.4457	0.0520	18.2171	0.1539	62.2	0.161	0	0.81
218	319.1079432	-67.8252686	19.7225	0.0970	19.0061	0.0894	18.1455	0.1491	25.2	0.086	0	0.59
220	319.1446751	-67.8262859	18.0911	0.0490	17.6789	0.0597	16.7863	0.0968	70.7	0.406	0	0.00
221	319.1946590	-67.8260809	19.0456	0.0659	19.0321	0.1151	20.1952	1.2381	2.2	0.114	0	0.67
222	318.9809615	-67.8278388	19.0449	0.0523	18.2691	0.0453	17.2227	0.0632	3.0	0.145	0	0.08
224	319.1101314	-67.8284680	18.1616	0.0415	17.5630	0.0424	17.2233	0.1139	-39.6	0.137	0	0.00
225	319.0903324	-67.8284892	19.0333	0.0786	18.3063	0.0719	17.5494	0.1320	-82.6	0.019	0	0.10
227	318.9462854	-67.8301289	18.0889	0.0298	17.3596	0.0268	17.1283	0.0785	88.2	0.387	0	0.80
228	319.1327373	-67.8294628	19.5528	0.1117	18.6539	0.0875	17.8334	0.1516	-0.3	0.001	0	0.48
229	318.9328685	-67.8300647	19.4783	0.0744	19.1326	0.0957	19.5361	0.5099	45.0	0.139	0	0.67
235	318.9424049	-67.8325099	19.4580	0.0985	19.3127	0.1536	19.3065	0.5641	-55.9	0.285	0	0.60
236	318.9352489	-67.8333648	19.0635	0.0642	18.5618	0.0718	18.1259	0.1767	67.0	0.105	0	0.85
237	319.0819072	-67.8337470	19.2585	0.0853	18.5861	0.0820	17.7478	0.1397	44.0	0.116	0	0.05
238	319.0547383	-67.8339999	19.3173	0.0945	18.7892	0.1038	17.8245	0.1577	-9.2	0.138	0	0.01
239	319.1202125	-67.8346263	19.1602	0.0545	18.8039	0.0690	18.7164	0.2330	72.1	0.159	0	0.82
240	318.9065390	-67.8353666	19.6505	0.0673	19.2070	0.0786	18.8048	0.1985	-87.2	0.168	0	0.52
242	319.0670969	-67.8352588	18.9257	0.0536	18.6486	0.0731	18.0178	0.1504	43.4	0.081	0	0.86
243	319.1077716	-67.8362019	19.8431	0.0966	18.9636	0.0767	19.2841	0.3772	-43.4	0.128	0	0.59
244	319.1465237	-67.8363354	19.0700	0.0812	18.4763	0.0840	18.2636	0.2545	-71.4	0.190	0	0.01

Figure A.12: Catalogue for Pavo p1p0 (cont.)

247	319.1107960	-67.8371633	18.5821	0.0437	18.0721	0.0482	18.1830	0.1952	72.2	0.075	0	0.89
249	319.2201183	-67.8381170	18.9959	0.0758	18.7480	0.1074	18.9968	0.4982	-46.8	0.349	0	0.56
250	319.1084083	-67.8390807	18.8532	0.0512	18.3969	0.0593	18.8157	0.3194	-40.8	0.079	0	0.86
251	319.2021924	-67.8393138	17.3583	0.0178	16.6279	0.0158	16.0143	0.0324	-53.2	0.094	0	0.13
253	319.0015730	-67.8397921	19.4413	0.0948	18.6922	0.0850	17.8650	0.1464	40.0	0.634	0	0.06
254	318.9535703	-67.8401709	18.6896	0.0492	18.0009	0.0462	17.2378	0.0840	84.1	0.079	0	0.20
256	319.0981111	-67.8409756	18.5112	0.0492	17.9899	0.0540	17.4622	0.1222	-89.3	0.158	0	0.62
257	318.9444603	-67.8413702	18.8990	0.0482	18.1296	0.0419	17.0443	0.0565	70.5	0.161	0	0.77
258	319.1684354	-67.8406602	19.5569	0.0640	18.9554	0.0648	19.1689	0.2874	8.6	0.103	0	0.64
259	319.1207541	-67.8411299	19.1633	0.0752	18.8377	0.0990	17.7144	0.1300	22.9	0.097	0	0.28
260	319.0154448	-67.8416671	19.3015	0.0949	18.5877	0.0880	17.6500	0.1369	81.0	0.510	0	0.21
263	319.2025212	-67.8422153	19.0493	0.0511	18.6052	0.0597	18.3212	0.1681	75.4	0.010	0	0.86
268	318.8868950	-67.8446095	17.1892	0.0192	16.3568	0.0157	15.7578	0.0328	-79.4	0.111	0	0.03
270	319.0818982	-67.8440400	19.0819	0.0778	18.4074	0.0746	17.6803	0.1408	-87.6	0.147	0	0.02
273	318.9350021	-67.8454464	18.0915	0.0292	17.2694	0.0241	16.5749	0.0461	27.8	0.044	0	0.01
275	318.9405927	-67.8454902	19.1096	0.0631	18.5151	0.0648	18.4470	0.2231	25.9	0.169	0	0.83
277	319.1010226	-67.8460309	19.8109	0.0953	19.4763	0.1243	20.0324	0.7632	-74.9	0.264	0	0.52
278	319.0430163	-67.8468465	18.8189	0.0489	18.0306	0.0420	17.6084	0.1038	-61.4	0.097	0	0.15
279	319.1276488	-67.8470452	18.8908	0.0569	18.6410	0.0799	19.3971	0.5889	-10.3	0.016	0	0.87
281	319.1721039	-67.8472421	18.5072	0.0409	17.6973	0.0343	17.3757	0.0930	-29.6	0.302	0	0.01
283	318.9397458	-67.8488005	18.1814	0.0307	17.4220	0.0268	16.8246	0.0562	-36.4	0.060	0	0.06
284	319.1390752	-67.8487200	18.6805	0.0481	18.2842	0.0589	17.9743	0.1625	54.9	0.095	0	0.77
285	319.1955341	-67.8483873	19.8016	0.1112	18.6325	0.0680	17.8998	0.1272	-24.8	0.015	0	0.54
286	319.0346844	-67.8506476	17.6040	0.0213	16.7754	0.0174	16.0607	0.0325	69.7	0.226	0	0.03
287	319.0140127	-67.8503759	19.7368	0.1100	19.3495	0.1373	20.5791	1.5704	-44.9	0.204	0	0.50
288	319.1763017	-67.8501854	19.0889	0.0797	18.5355	0.0854	17.2333	0.0951	40.1	0.213	0	0.43
289	319.1793373	-67.8503353	19.2486	0.0772	18.3775	0.0618	17.8205	0.1359	82.9	0.198	0	0.13
290	318.8873141	-67.8512510	18.1325	0.0386	17.3518	0.0334	16.6746	0.0655	-18.6	0.117	0	0.25
292	319.1327859	-67.8518107	19.0100	0.0711	18.7331	0.0980	18.7068	0.3526	44.2	0.086	0	0.84
294	319.0077356	-67.8528065	19.2762	0.0893	18.7709	0.1001	18.6393	0.3270	89.6	0.169	0	0.22
295	319.0695563	-67.8541751	16.1219	0.0099	15.5157	0.0098	15.0820	0.0237	83.9	0.205	0	0.03
296	319.0929216	-67.8533375	19.4890	0.1017	18.8283	0.0990	17.7692	0.1378	44.8	0.142	0	0.28
297	318.8862311	-67.8538050	19.5493	0.0973	18.9385	0.0990	19.5005	0.6114	72.5	0.133	0	0.01
298	318.9936668	-67.8542011	17.2749	0.0195	16.6183	0.0186	15.9994	0.0383	27.5	0.005	0	0.03
300	319.0359906	-67.8542162	19.5310	0.0894	18.4733	0.0605	17.7565	0.1147	-49.5	0.145	0	0.53
301	319.0248113	-67.8556911	18.9831	0.0716	18.3951	0.0742	17.7772	0.1548	-8.8	0.125	0	0.02
302	319.1099675	-67.8563638	19.1831	0.0794	18.4781	0.0740	17.6487	0.1271	-52.8	0.026	0	0.74
303	319.0260388	-67.8567688	18.8921	0.0688	17.9197	0.0503	17.3597	0.1103	-73.8	0.236	0	0.12
304	318.9404160	-67.8569040	19.4709	0.0989	19.3291	0.1547	18.3579	0.2339	44.1	0.205	0	0.58
306	319.0903719	-67.8568947	19.3408	0.0765	18.5428	0.0654	19.1728	0.4282	40.6	0.179	0	0.33
307	319.1947118	-67.8573558	18.3576	0.0432	18.2998	0.0722	18.2743	0.2598	59.1	0.269	2	0.83
308	319.1929422	-67.8581465	18.8453	0.0711	18.5586	0.0973	17.7046	0.1636	70.8	0.177	3	0.18
311	318.9085527	-67.8602300	18.7259	0.0498	18.3305	0.0612	18.7600	0.3332	70.7	0.120	0	0.89
312	318.9619096	-67.7374720	19.8168	0.0857	19.1064	0.0791	18.9191	0.2439	-47.5	0.117	16	0.53
314	318.8867618	-67.8607354	18.7756	0.0616	18.2051	0.0648	17.5551	0.1312	71.3	0.156	0	0.63
315	319.2075435	-67.8603613	18.6270	0.0451	18.1058	0.0493	17.8120	0.1377	78.5	0.142	0	0.83
316	319.1317661	-67.8606879	19.5763	0.1093	18.8975	0.1046	18.7238	0.3287	-12.8	0.282	0	0.53
319	318.9861447	-67.8625472	19.4594	0.0690	19.0805	0.0859	18.3561	0.1622	67.8	0.145	0	0.79

Figure A.13: Catalogue for Pavo p1p0 (cont.)

1	318.7464751	-67.9790736	16.9827	0.0184	16.3213	0.0177	15.6880	0.0334	-2.7	0.044	0	0.03
3	318.8715901	-67.9805034	18.4174	0.0521	18.0165	0.0642	20.1903	1.6203	85.5	0.139	0	0.80
6	318.7716015	-67.9812516	19.3441	0.0598	18.9989	0.0767	18.3894	0.1489	1.3	0.002	0	0.79
9	318.9278585	-67.9818883	18.1603	0.0396	17.4137	0.0355	16.6945	0.0623	-37.0	0.246	24	0.14
10	318.5952180	-67.9827667	19.4877	0.0535	18.7763	0.0489	18.5173	0.1292	15.3	0.238	24	0.72
11	318.6936254	-67.9825472	19.5854	0.0735	18.8185	0.0645	18.0185	0.1050	-4.9	0.234	24	0.43
12	318.7001499	-67.9826444	19.6325	0.0850	18.9429	0.0804	19.1065	0.3177	-8.6	0.365	24	0.53
13	318.8094215	-67.9824158	19.7678	0.0809	18.5982	0.0495	17.9394	0.0911	15.9	0.432	24	0.67
14	318.9085962	-67.8602025	18.1810	0.0491	17.8028	0.0619	18.1722	0.2970	3.1	0.246	1	0.54
16	318.6715656	-67.8540876	19.1103	0.0541	19.3241	0.1154	18.9735	0.2854	-42.5	0.201	16	0.28
18	318.8868230	-67.8608010	18.8979	0.0610	17.9344	0.0450	17.1110	0.0718	36.1	0.149	0	0.05
19	318.8289982	-67.8611117	18.9617	0.0620	18.5081	0.0727	18.6087	0.2719	-31.1	0.114	0	0.83
20	318.8231659	-67.8616183	17.1016	0.0205	16.3009	0.0174	15.5684	0.0300	3.0	0.035	3	0.03
23	318.7743717	-67.8632720	19.6268	0.0653	19.1223	0.0724	18.6858	0.1642	-90.0	0.151	0	0.75
25	318.8164747	-67.8634751	19.7064	0.0921	19.4190	0.1258	19.0353	0.3020	74.5	0.295	0	0.15
26	318.7935441	-67.8639757	18.0754	0.0362	17.7424	0.0472	17.5119	0.1300	36.9	0.088	0	0.68
27	318.7775462	-67.8640620	19.2120	0.0946	18.4221	0.0821	18.1071	0.2101	27.6	0.195	0	0.02
28	318.7699087	-67.8641800	19.3892	0.0954	18.2997	0.0630	17.5470	0.1075	42.5	0.132	0	0.26
29	318.8478730	-67.8642705	18.4878	0.0482	17.9052	0.0502	17.4612	0.1135	72.8	0.391	0	0.02
30	318.8433344	-67.8656977	19.2502	0.0788	18.5814	0.0762	18.3041	0.2012	-68.4	0.111	0	0.75
31	318.8827748	-67.8658785	18.0478	0.0471	17.2793	0.0416	16.5579	0.0730	-60.6	0.108	0	0.06
33	318.8858569	-67.8661587	18.6259	0.0683	17.7409	0.0543	17.2179	0.1146	-23.8	0.263	1	0.00
36	318.7896579	-67.8670539	17.4445	0.0169	16.9975	0.0192	16.8695	0.0569	55.6	0.054	0	0.78
38	318.7549014	-67.8674522	18.7032	0.0557	18.3235	0.0698	18.3569	0.2456	81.8	0.102	0	0.56
40	318.7145713	-67.8683501	19.0464	0.0535	18.8255	0.0769	18.1826	0.1449	60.4	0.236	0	0.00
41	318.8151523	-67.8691146	19.1196	0.0680	18.1224	0.0487	17.5765	0.1001	-14.8	0.094	0	0.85
42	318.6985083	-67.8696566	18.9694	0.0615	18.3162	0.0601	18.1313	0.1724	-79.5	0.122	0	0.72
43	318.9291174	-67.8689906	19.4646	0.0791	18.8052	0.0769	18.7183	0.2417	-87.8	0.359	24	0.49
44	318.8741198	-67.8695508	19.7125	0.1048	19.2679	0.1244	19.0008	0.3327	27.1	0.236	0	0.53
45	318.6499311	-67.8707226	18.4120	0.0428	17.8429	0.0450	17.3569	0.0977	-31.2	0.035	0	0.17
46	318.8865953	-67.8701016	19.1736	0.0560	18.8328	0.0722	18.9034	0.2616	-83.0	0.144	0	0.68
51	318.7948985	-67.8723769	17.1074	0.0154	16.4954	0.0152	16.0301	0.0332	-30.9	0.055	0	0.14
52	318.8667628	-67.8721487	18.3830	0.0554	17.7256	0.0541	17.1109	0.1050	-55.1	0.217	0	0.01
53	318.6871418	-67.8731575	17.9816	0.0247	17.4089	0.0254	17.2061	0.0706	-70.1	0.053	0	0.79
54	318.8494078	-67.8726280	19.4011	0.0877	18.6593	0.0793	17.8378	0.1271	76.3	0.206	0	0.01
55	318.8828351	-67.8735238	19.0319	0.0708	18.5254	0.0793	21.0780	2.8385	71.5	0.125	0	0.81
56	318.9289873	-67.8750182	18.0617	0.0433	17.7696	0.0589	17.5660	0.1669	-87.2	0.388	26	0.00
57	318.9261878	-67.8750399	17.7322	0.0351	17.9267	0.0745	18.0731	0.2916	1.6	0.711	19	0.01
58	318.8295765	-67.8751277	19.7888	0.0735	19.3172	0.0841	19.2701	0.2731	-22.8	0.201	0	0.65
60	318.8904948	-67.8758585	18.7652	0.0422	18.2535	0.0464	17.7463	0.0984	43.4	0.010	0	0.66
61	318.8742849	-67.8773985	17.7498	0.0349	16.9374	0.0295	16.3918	0.0608	59.7	0.254	3	0.01
63	318.7980980	-67.8774011	19.1608	0.0807	18.4684	0.0764	17.6479	0.1226	22.4	0.179	0	0.09
64	318.8326908	-67.8789894	17.5630	0.0188	17.1601	0.0223	17.0960	0.0703	38.5	0.045	0	0.58
65	318.8804229	-67.8792667	18.3016	0.0410	17.7431	0.0435	17.4126	0.1092	15.6	0.037	0	0.70
66	318.8236866	-67.8799417	17.2137	0.0211	16.4646	0.0188	15.7027	0.0315	64.2	0.128	0	0.03
67	318.8871673	-67.8796576	19.5462	0.0931	18.6065	0.0703	17.6235	0.0971	41.6	0.140	0	0.19
68	318.8790730	-67.8802222	19.4328	0.1035	18.7072	0.0953	18.1570	0.1964	54.1	0.153	0	0.01
69	318.9287142	-67.8803806	19.4059	0.0737	18.7331	0.0707	17.5858	0.0839	52.1	0.422	16	0.50
72	318.6967693	-67.8827422	18.5989	0.0445	18.0835	0.0490	18.3963	0.2218	60.8	0.113	0	0.47

Figure A.14: Catalogue for Pavo p0m1

76	318.8648478	-67.8840843	19.6191	0.0903	19.3737	0.1283	19.3138	0.4151	42.9	0.138	0	0.30
77	318.6298204	-67.8849840	18.5116	0.0447	17.8325	0.0425	17.4990	0.1062	46.6	0.073	0	0.60
78	318.8068738	-67.8847406	18.9604	0.0489	18.3820	0.0508	17.9477	0.1153	13.3	0.035	0	0.72
79	318.7069899	-67.8857804	18.5588	0.0677	18.0787	0.0780	17.0551	0.1042	-48.0	0.049	0	0.00
81	318.8988495	-67.8863968	19.3588	0.0737	18.0935	0.0414	17.3639	0.0716	79.6	0.253	0	0.00
83	318.7380507	-67.8885358	17.8626	0.0271	17.2796	0.0278	17.4806	0.1129	31.5	0.013	0	0.88
85	318.8120046	-67.8887071	19.2824	0.0599	19.1958	0.0973	18.6371	0.1985	-44.8	0.075	0	0.54
86	318.8430345	-67.8888241	19.4382	0.0976	18.9515	0.1116	18.3077	0.2112	57.7	0.297	0	0.00
87	318.6878336	-67.8899977	19.7291	0.0749	19.6973	0.1281	20.7307	1.1298	0.1	0.030	0	0.64
89	318.6417104	-67.8907231	18.8216	0.0613	18.3472	0.0707	18.0914	0.1906	24.2	0.019	0	0.17
90	318.6798458	-67.8916967	18.8926	0.0635	18.8571	0.1093	19.4089	0.6213	64.6	0.045	0	0.66
91	318.8320894	-67.8926243	18.9714	0.0506	18.0359	0.0381	17.3741	0.0700	42.4	0.091	0	0.18
92	318.6246538	-67.8930584	19.6341	0.1068	19.6133	0.1872	19.3592	0.5076	14.7	0.127	0	0.64
93	318.9248386	-67.8924571	19.4251	0.0614	18.7282	0.0573	18.2523	0.1251	-5.4	0.294	0	0.34
96	318.6556124	-67.8945464	18.9902	0.0703	18.2662	0.0646	17.9824	0.1696	84.1	0.162	0	0.06
98	318.5858367	-67.8951480	19.7018	0.0706	21.2850	0.5284	20.5690	0.9381	17.9	0.106	16	0.39
100	318.7389840	-67.8962803	19.2249	0.0913	18.3132	0.0709	17.9806	0.1781	42.1	0.324	0	0.00
101	318.6625134	-67.8967639	18.5617	0.0379	18.1891	0.0471	17.9209	0.1248	-19.4	0.070	0	0.71
102	318.8950062	-67.8994223	18.7435	0.0547	18.6088	0.0856	18.1702	0.1954	10.6	0.159	0	0.51
104	318.6920565	-67.9028544	15.9665	0.0106	15.1391	0.0087	14.4249	0.0152	-39.3	0.170	3	0.03
105	318.6990231	-67.9004764	19.1479	0.0756	18.8761	0.1050	20.9505	2.4229	-84.1	0.152	0	0.07
108	318.7944893	-67.9014289	18.2130	0.0354	17.5701	0.0347	17.4085	0.1011	-73.1	0.092	0	0.40
110	318.9179597	-67.9020889	19.0578	0.0682	18.6069	0.0802	17.8019	0.1306	37.5	0.084	0	0.69
111	318.5864605	-67.9034043	19.1760	0.0850	19.1883	0.1535	18.2742	0.2269	64.3	0.536	0	0.04
113	318.6079070	-67.9035775	19.5375	0.0996	19.3448	0.1490	18.4644	0.2271	-42.4	0.207	0	0.03
116	318.8350755	-67.9050110	16.8036	0.0119	16.1207	0.0110	15.5131	0.0207	60.5	0.276	3	0.04
119	318.7958536	-67.9061434	17.8415	0.0269	17.1578	0.0253	16.9509	0.0705	29.4	0.277	0	0.40
120	318.7579958	-67.9062425	19.5186	0.0894	18.5491	0.0657	17.6951	0.1020	89.9	0.173	0	0.20
123	318.8757266	-67.9072225	17.7497	0.0364	17.1121	0.0361	16.3256	0.0598	-13.3	0.296	0	0.01
125	318.8689345	-67.9076809	18.2308	0.0386	17.5041	0.0352	16.6039	0.0522	-64.1	0.142	0	0.03
127	318.7304540	-67.9091134	18.8402	0.0726	19.1771	0.1765	18.0538	0.2153	8.8	0.021	0	0.00
129	318.6661750	-67.9093338	19.2070	0.0767	18.9267	0.1057	18.3525	0.2131	3.8	0.350	0	0.71
131	318.8008806	-67.9099865	18.2106	0.0289	17.6418	0.0299	17.7700	0.1128	-75.6	0.077	0	0.88
132	318.7445117	-67.9107957	18.5864	0.0522	18.1221	0.0606	18.0769	0.1981	58.3	0.430	0	0.13
137	318.7782546	-67.9121949	18.5241	0.0548	18.0754	0.0647	17.2715	0.1055	-39.0	0.055	0	0.10
139	318.8031177	-67.9128487	18.4762	0.0591	17.8226	0.0580	16.9978	0.0928	-36.0	0.321	0	0.00
140	318.7602963	-67.9129271	19.4399	0.0725	18.6033	0.0599	17.8146	0.0986	44.3	0.292	0	0.01
142	318.8439210	-67.9128088	19.4108	0.0876	18.7925	0.0887	17.6048	0.1018	-14.1	0.116	3	0.65
143	318.6229710	-67.9140997	18.2140	0.0467	17.7316	0.0534	16.8187	0.0787	-44.5	0.227	0	0.08
144	318.6913843	-67.9141910	18.3554	0.0327	17.5488	0.0275	16.7800	0.0456	46.5	0.058	0	0.51
145	318.7844540	-67.9139478	19.3959	0.0971	18.6058	0.0842	18.4515	0.2494	-78.7	0.014	0	0.49
146	318.8693417	-67.9138856	18.2947	0.0345	17.7889	0.0382	17.4898	0.0981	-19.1	0.087	0	0.46
147	318.7196016	-67.9160459	17.4788	0.0244	16.6909	0.0209	16.1366	0.0425	-11.2	0.462	0	0.01
148	318.6458549	-67.9165688	19.1530	0.0875	18.5780	0.0924	17.7895	0.1530	26.8	0.342	0	0.01
149	318.7565028	-67.9162909	19.3583	0.0981	18.3026	0.0668	17.4061	0.0999	88.6	0.185	0	0.06
150	318.7652826	-67.9165710	18.5239	0.0547	18.0853	0.0651	17.8054	0.1718	-47.7	0.157	0	0.13
151	318.6181106	-67.9167641	19.4057	0.0632	18.8496	0.0670	18.2832	0.1351	66.5	0.068	0	0.75
152	318.7406939	-67.9174232	19.6433	0.1180	18.5626	0.0786	18.3627	0.2230	27.0	0.015	0	0.03
154	318.7901557	-67.9178503	19.3825	0.0791	19.2555	0.1251	19.2438	0.4230	-57.8	0.190	0	0.43

Figure A.15: Catalogue for Pavo p0m1 (cont.)

155	318.7415568	-67.9192661	17.6307	0.0219	17.0280	0.0220	16.8783	0.0644	14.6	0.022	0	0.67
156	318.9215383	-67.9191511	19.8640	0.1266	18.6635	0.0756	22.2894	7.2471	45.5	0.026	0	0.25
157	318.6704485	-67.9198658	19.5548	0.0733	19.0550	0.0821	19.8284	0.5685	-27.3	0.020	0	0.66
158	318.6345898	-67.9200827	19.8642	0.1000	19.1824	0.0954	19.1315	0.3100	-73.8	0.271	0	0.67
160	318.9043381	-67.9208149	19.2387	0.0839	18.5714	0.0813	18.0241	0.1678	39.4	0.096	0	0.09
161	318.8477240	-67.9214619	19.2296	0.0838	19.1506	0.1391	19.1333	0.4686	68.3	0.185	0	0.08
162	318.6554580	-67.9219600	19.9303	0.1189	18.8962	0.0825	18.4294	0.1830	-62.9	0.365	0	0.00
165	318.6799023	-67.9231803	17.5175	0.0177	16.8922	0.0172	16.7416	0.0497	-79.6	0.123	0	0.49
166	318.6852898	-67.9228527	19.2334	0.0699	18.5253	0.0650	18.8633	0.3014	-32.7	0.181	0	0.58
167	318.8001643	-67.9227066	19.2632	0.0589	18.9126	0.0752	18.4701	0.1703	-57.3	0.180	0	0.26
169	318.9042549	-67.9233599	18.5358	0.0480	18.0431	0.0542	17.6699	0.1311	76.5	0.198	0	0.22
170	318.9302669	-67.9239103	19.4604	0.0707	19.0435	0.0854	18.7129	0.2145	75.6	0.219	24	0.08
172	318.8815375	-67.9243385	18.6066	0.0528	18.0980	0.0589	18.1277	0.2064	12.1	0.079	0	0.66
173	318.6723541	-67.9253329	17.9651	0.0246	17.4479	0.0265	17.3668	0.0826	-62.8	0.037	0	0.88
180	318.6907174	-67.9271203	18.0031	0.0247	17.4668	0.0262	17.3239	0.0768	58.9	0.088	0	0.88
182	318.6507493	-67.9299183	18.7115	0.0518	18.4165	0.0701	18.0657	0.1730	77.6	0.047	0	0.86
185	318.6976694	-67.9304381	18.6772	0.0448	17.7959	0.0354	17.1225	0.0645	-69.2	0.210	0	0.01
186	318.6204567	-67.9309167	19.1511	0.0789	18.3698	0.0688	17.9442	0.1588	79.6	0.348	0	0.07
188	318.6419956	-67.9309370	19.2466	0.0931	18.6821	0.0993	18.4607	0.2770	-68.1	0.411	0	0.05
191	318.6874163	-67.9332321	18.2127	0.0447	17.5955	0.0452	16.6315	0.0635	32.3	0.197	0	0.01
192	318.9145944	-67.9326746	18.2568	0.0442	17.7640	0.0500	17.5734	0.1430	44.4	0.116	0	0.68
193	318.6305339	-67.9341744	18.4233	0.0464	17.4866	0.0351	16.6378	0.0546	-75.4	0.173	0	0.02
194	318.7882248	-67.9349374	19.0169	0.0546	18.0862	0.0413	17.6706	0.0953	26.2	0.179	0	0.00
195	318.6425786	-67.9354070	19.7260	0.0970	19.0391	0.0921	18.4891	0.1894	-57.9	0.244	0	0.65
196	318.9094057	-67.9353537	19.0598	0.0664	18.2983	0.0589	17.6393	0.1093	61.0	0.078	0	0.14
197	318.8525388	-67.9355872	19.5802	0.0861	18.7808	0.0738	18.9638	0.2970	17.0	0.083	0	0.67
198	318.6861417	-67.9372559	19.2304	0.0758	18.7322	0.0855	17.9371	0.1405	-81.7	0.337	0	0.00
199	318.5853801	-67.9382210	19.3393	0.0658	18.9565	0.0819	18.3756	0.1636	66.8	0.499	16	0.02
200	318.8178060	-67.9379650	18.9401	0.0697	18.5190	0.0845	17.8680	0.1587	49.2	0.056	0	0.16
201	318.7842272	-67.9380587	19.4004	0.0932	18.6103	0.0808	17.6262	0.1116	-89.7	0.027	0	0.59
202	318.7636615	-67.9382984	19.3298	0.0692	18.6396	0.0653	18.6060	0.2152	70.4	0.147	0	0.64
203	318.6196403	-67.9388242	18.6728	0.0503	17.8839	0.0433	18.7578	0.3281	9.9	0.034	0	0.62
205	318.8675705	-67.9401414	19.6930	0.1052	19.0335	0.1027	18.8951	0.3087	-52.7	0.195	0	0.52
206	318.8512915	-67.9407275	19.3338	0.0686	19.0060	0.0900	18.8881	0.2752	32.5	0.070	0	0.45
207	318.7164485	-67.9412989	18.9447	0.0532	18.4703	0.0608	19.5523	0.5588	21.2	0.038	0	0.77
210	318.7068046	-67.9424316	17.8310	0.0464	17.3155	0.0517	16.8666	0.1171	72.1	0.311	0	0.00
211	318.6947257	-67.9423136	19.0565	0.0824	18.6247	0.0991	17.5322	0.1242	1.1	0.098	0	0.00
212	318.6562401	-67.9435014	19.8637	0.1240	19.3489	0.1384	19.6055	0.5997	2.3	0.260	0	0.16
213	318.6674941	-67.9438047	19.6419	0.0838	19.0055	0.0832	18.3828	0.1597	78.4	0.152	0	0.69
214	318.8396671	-67.9438310	19.3607	0.0834	19.2205	0.1306	20.7209	1.7779	-89.7	0.249	0	0.66
216	318.7258490	-67.9448489	19.1767	0.0796	18.6410	0.0869	17.8370	0.1418	73.9	0.303	0	0.07
217	318.6494194	-67.9456542	17.2375	0.0246	16.4713	0.0217	15.7370	0.0374	59.1	0.149	0	0.01
219	318.7501242	-67.9467014	18.3693	0.0583	17.7206	0.0575	17.1138	0.1124	-56.7	0.099	0	0.00
221	318.6753889	-67.9468690	18.1412	0.0280	17.9157	0.0395	17.8133	0.1215	53.0	0.029	0	0.78
222	318.8755091	-67.9465286	18.5697	0.0553	17.9719	0.0569	17.8584	0.1748	-25.1	0.105	0	0.64
225	318.8434724	-67.9479311	19.2751	0.0572	18.6272	0.0558	18.2159	0.1293	-44.2	0.082	0	0.86
226	318.6881703	-67.9487386	18.4981	0.0360	17.8733	0.0357	17.8015	0.1125	48.1	0.105	0	0.71
228	318.6610501	-67.9504802	17.7992	0.0358	17.1888	0.0364	16.7802	0.0851	-23.0	0.100	0	0.01
229	318.6798794	-67.9508492	16.3271	0.0111	15.5850	0.0098	14.9380	0.0181	88.0	0.142	0	0.03

Figure A.16: Catalogue for Pavo p0m1 (cont.)

230	318.6761121	-67.9508503	18.6589	0.0592	17.8857	0.0520	17.0312	0.0808	-46.8	0.173	1	0.54
231	318.5854242	-67.9514891	18.0578	0.0369	17.2048	0.0300	16.2942	0.0442	80.7	0.226	24	0.00
232	318.8935571	-67.9508571	19.6490	0.0945	18.9247	0.0868	18.8183	0.2683	5.0	0.001	0	0.64
233	318.6619072	-67.9519133	19.6368	0.0984	19.1472	0.1121	18.5700	0.2252	89.4	0.316	0	0.63
234	318.6546603	-67.9536514	19.4411	0.1008	19.2250	0.1478	18.3285	0.2219	32.3	0.235	0	0.46
235	318.6384829	-67.9542316	18.3043	0.0429	17.7938	0.0477	17.4998	0.1238	-65.7	0.163	0	0.03
236	318.7551225	-67.9540756	19.6749	0.1138	19.0262	0.1123	17.7938	0.1238	-40.6	0.009	0	0.32
237	318.8280552	-67.9539651	19.2829	0.0767	18.5461	0.0696	18.8587	0.3158	-49.9	0.102	0	0.36
238	318.6460981	-67.9552590	18.0698	0.0465	17.3605	0.0433	16.6618	0.0777	62.6	0.109	0	0.01
239	318.6673847	-67.9552238	18.6161	0.0635	17.9314	0.0606	17.5158	0.1412	-86.0	0.273	0	0.00
241	318.6151089	-67.9556429	18.9592	0.0699	18.1756	0.0608	17.5297	0.1145	87.6	0.197	0	0.10
242	318.8190929	-67.9556081	18.0234	0.0300	17.4659	0.0316	17.1772	0.0818	87.2	0.112	0	0.62
243	318.6537081	-67.9566588	19.2929	0.0875	18.5475	0.0790	17.8032	0.1360	-17.2	0.232	0	0.04
244	318.6587750	-67.9570608	18.4650	0.0472	17.4909	0.0345	17.0560	0.0783	71.2	0.056	3	0.02
245	318.6592881	-67.9575680	18.3132	0.0485	17.3491	0.0358	16.8355	0.0759	81.3	0.092	3	0.01
246	318.8231371	-67.9565511	18.7877	0.0638	18.3828	0.0784	17.7772	0.1534	69.9	0.121	0	0.52
247	318.7123571	-67.9569945	18.6177	0.0566	17.8534	0.0501	17.3021	0.1027	87.0	0.087	0	0.11
248	318.7676417	-67.9575955	19.4691	0.0868	19.3182	0.1346	19.0954	0.3751	-6.3	0.033	0	0.66
249	318.8097943	-67.9576925	18.9581	0.0570	18.0849	0.0456	17.3555	0.0791	-4.1	0.018	0	0.13
251	318.9265855	-67.9577628	19.3118	0.0830	18.3082	0.0591	18.1680	0.1768	0.5	0.212	0	0.20
252	318.6600933	-67.9589842	17.5391	0.0233	16.7311	0.0195	15.9387	0.0318	65.5	0.129	0	0.02
253	318.6057633	-67.9593381	19.2710	0.0974	18.3594	0.0757	18.0227	0.1896	-72.6	0.139	0	0.67
254	318.7916589	-67.9596772	19.3300	0.0840	18.7806	0.0906	18.3535	0.2088	77.9	0.080	0	0.42
255	318.9294764	-67.9594036	19.1672	0.0576	18.6714	0.0646	18.3798	0.1678	-42.5	0.195	16	0.86
257	318.5922996	-67.9616004	19.3474	0.0864	18.4485	0.0678	17.8757	0.1364	15.5	0.177	0	0.67
258	318.5966044	-67.9620562	18.1051	0.0502	17.5152	0.0523	17.3707	0.1563	3.9	0.053	0	0.00
260	318.7433925	-67.9619742	17.3518	0.0270	16.7187	0.0268	16.3539	0.0651	-13.9	0.369	0	0.01
261	318.6731076	-67.9622620	19.0828	0.0747	18.4433	0.0741	17.5009	0.1064	-63.1	0.227	0	0.00
262	318.8624414	-67.9619352	19.5002	0.0822	19.0940	0.1007	19.0426	0.3276	-88.8	0.162	0	0.68
263	318.8749638	-67.9624579	18.6823	0.0524	18.3484	0.0685	17.9559	0.1627	74.1	0.023	0	0.83
264	318.7856675	-67.9630701	18.8017	0.0533	18.5200	0.0729	18.3120	0.2053	-44.1	0.102	0	0.37
267	318.7424225	-67.9647128	18.4304	0.0602	17.8974	0.0660	17.1930	0.1180	78.7	0.159	0	0.01
268	318.8612140	-67.9644365	19.4440	0.0681	18.7169	0.0620	18.3989	0.1569	-40.0	0.167	0	0.12
269	318.7360808	-67.9647601	19.9111	0.1131	19.5495	0.1448	18.9909	0.2963	12.0	0.039	0	0.43
271	318.8223476	-67.9654918	17.5679	0.0290	16.8010	0.0255	16.2416	0.0516	27.8	0.229	0	0.01
272	318.8402032	-67.9652431	18.3493	0.0408	17.6386	0.0377	16.9552	0.0683	-5.0	0.101	0	0.08
273	318.8344335	-67.9655305	18.3257	0.0346	17.6251	0.0320	16.9173	0.0565	83.6	0.138	0	0.03
275	318.6459472	-67.9671513	18.2305	0.0538	17.6421	0.0560	16.6984	0.0804	-85.7	0.475	0	0.00
277	318.8430239	-67.9668323	19.6978	0.0964	19.0919	0.0986	18.0329	0.1272	14.8	0.153	0	0.52
280	318.7077653	-67.9686241	18.7297	0.0667	18.2480	0.0766	17.4910	0.1305	75.5	0.052	0	0.14
281	318.9310130	-67.9681835	19.3907	0.0841	18.3085	0.0558	17.6813	0.1066	-43.4	0.128	16	0.11
282	318.7045992	-67.9692853	18.4214	0.0509	18.0691	0.0656	17.9204	0.1954	39.2	0.156	0	0.48
283	318.7878386	-67.9693447	18.6224	0.0398	18.1789	0.0465	17.7314	0.1043	-4.2	0.110	0	0.29
285	318.8237060	-67.9703621	17.9546	0.0339	17.2765	0.0323	16.6721	0.0628	68.2	0.218	0	0.01
286	318.5936028	-67.9711373	19.0126	0.0747	18.0601	0.0558	17.3025	0.0947	55.0	0.240	0	0.00
287	318.7406617	-67.9710320	18.6871	0.0581	18.2180	0.0673	18.0806	0.2022	-11.2	0.132	0	0.16
289	318.6710706	-67.9715671	19.1654	0.0564	18.7442	0.0676	18.4612	0.1770	-61.7	0.107	0	0.41
290	318.7169708	-67.9712963	19.7548	0.1071	19.1447	0.1093	18.2049	0.1574	26.6	0.361	0	0.59
291	318.6896041	-67.9717491	19.0193	0.0499	18.5803	0.0587	18.4008	0.1687	72.6	0.105	0	0.74

Figure A.17: Catalogue for Pavo p0m1 (cont.)

292	318.6941739	-67.9726804	17.3105	0.0182	16.8254	0.0202	16.6928	0.0601	41.8	0.379	0	0.03
294	318.8571238	-67.9730265	18.1591	0.0309	17.2877	0.0245	16.5761	0.0429	-68.2	0.196	0	0.09
296	318.5899744	-67.9757164	17.7279	0.0398	17.1971	0.0436	16.6520	0.0902	-62.3	0.242	0	0.03
297	318.5855585	-67.9755378	18.8396	0.0625	18.5127	0.0825	18.3271	0.2374	-12.5	0.130	16	0.33
298	318.8998237	-67.9757679	19.0949	0.0519	18.4559	0.0509	18.2772	0.1461	20.2	0.107	0	0.64
299	318.7504223	-67.9763645	18.6552	0.0645	18.5547	0.1050	20.0573	1.4334	46.3	0.082	0	0.52
300	318.7661613	-67.9764988	18.3635	0.0486	18.1589	0.0715	18.1209	0.2360	-40.9	0.128	0	0.30
302	318.6259733	-67.9782307	19.0775	0.0782	19.1773	0.1529	19.4868	0.6967	-57.6	0.275	0	0.13
304	318.8015236	-67.8549255	19.3454	0.0609	20.3237	0.2617	18.0478	0.1109	-35.6	0.173	0	0.83
305	318.6269769	-67.9793980	19.8059	0.0717	19.3015	0.0795	19.0072	0.2055	-41.6	0.130	0	0.65
306	318.6575897	-67.9796311	18.6859	0.0638	17.7164	0.0469	17.5207	0.1335	-11.7	0.203	0	0.01
307	318.7817107	-67.9796515	19.6582	0.0791	19.3654	0.1070	18.5094	0.1662	-85.5	0.261	0	0.23
309	318.7654804	-67.9798690	19.4857	0.1011	18.7609	0.0931	17.5444	0.1040	38.1	0.192	0	0.41
310	318.8434828	-67.8568085	19.0119	0.0842	18.1237	0.0668	17.3612	0.1132	-4.8	0.164	0	0.00
311	318.8252257	-67.8570658	18.5775	0.0435	18.1397	0.0514	18.3572	0.2131	-1.1	0.104	0	0.54
312	318.8463526	-67.8570917	19.3473	0.0842	18.4901	0.0686	17.6947	0.1125	69.6	0.110	0	0.11
313	318.8138862	-67.8575855	18.1057	0.0382	17.2467	0.0309	16.6503	0.0606	71.8	0.330	0	0.02
314	318.8357821	-67.8577109	18.1510	0.0294	17.5311	0.0292	16.7363	0.0475	77.9	0.198	0	0.19
316	318.7163554	-67.8578533	19.4008	0.0795	19.0526	0.1028	18.2665	0.1704	1.2	0.010	0	0.87
318	318.8065024	-67.8588241	19.0195	0.0619	18.0627	0.0459	17.2955	0.0770	3.8	0.142	0	0.00
319	318.6710604	-67.8596736	18.2192	0.0322	17.5343	0.0302	17.0831	0.0673	5.2	0.350	0	0.14

Figure A.18: Catalogue for Pavo p0m1 (cont.)

6	319.1970554	-67.9799223	18.4648	0.0354	17.5016	0.0255	16.9572	0.0521	-20.4	0.066	16	0.57
8	319.0820983	-67.9807760	18.7793	0.0619	18.8339	0.1140	19.0495	0.4789	-74.4	0.441	24	0.00
9	318.8949894	-67.9813082	19.4319	0.0677	19.5602	0.1322	18.8279	0.2319	-1.2	0.386	24	0.69
11	319.0696326	-67.8541920	16.0933	0.0092	15.4344	0.0085	15.1959	0.0228	-79.6	0.214	24	0.03
12	319.0904834	-67.8568913	19.1272	0.0752	18.4959	0.0740	18.3591	0.2242	71.1	0.192	0	0.68
15	319.1929752	-67.8581002	18.7926	0.0678	18.3150	0.0769	18.3578	0.2751	47.2	0.245	3	0.08
19	319.2075030	-67.8603368	18.4086	0.0345	18.1723	0.0477	17.7432	0.1097	75.9	0.027	0	0.63
20	319.1320143	-67.8606079	19.2482	0.0884	19.2206	0.1515	18.2432	0.2127	19.2	0.209	0	0.10
21	319.1636317	-67.8619401	18.0097	0.0263	17.2564	0.0227	17.2107	0.0733	71.2	0.040	0	0.85
22	318.9862484	-67.8624983	18.9789	0.0802	18.8171	0.1217	18.3760	0.2797	12.8	0.102	0	0.56
25	319.1079035	-67.8633297	19.1499	0.0597	18.1151	0.0405	17.3135	0.0661	77.4	0.135	0	0.09
26	319.1344021	-67.8645725	18.2833	0.0423	17.8574	0.0499	17.2312	0.0962	-24.2	0.420	0	0.00
28	319.0883666	-67.8672877	19.5708	0.0662	19.1269	0.0764	18.7030	0.1767	75.7	0.114	0	0.68
29	319.1491992	-67.8675824	18.5289	0.0503	17.8447	0.0470	17.1840	0.0878	35.0	0.107	0	0.06
31	319.0163335	-67.8684701	19.6695	0.1002	19.6175	0.1677	18.7654	0.2641	0.8	0.178	0	0.39
32	318.9107333	-67.8690442	18.5008	0.0626	18.7606	0.1396	98.9034	99.0000	-2.2	0.337	0	0.06
35	318.9103603	-67.8697918	18.0647	0.0441	18.6957	0.1377	20.3614	2.2041	-8.5	0.464	1	0.00
36	319.0120706	-67.8702254	16.9855	0.0151	16.2203	0.0129	15.5261	0.0229	-53.7	0.170	0	0.02
39	319.1122146	-67.8697799	18.5444	0.0403	17.9878	0.0419	17.9193	0.1341	85.1	0.097	0	0.79
41	319.1353143	-67.8706341	19.0009	0.0656	18.0936	0.0502	17.0975	0.0688	34.4	0.131	0	0.11
44	319.0166497	-67.8716878	19.2787	0.0705	18.6590	0.0699	17.9998	0.1308	6.7	0.240	0	0.45
45	319.1375865	-67.8717438	18.9820	0.0578	18.4994	0.0648	18.9727	0.3427	2.4	0.008	0	0.56
46	318.9111279	-67.8723901	19.1364	0.1029	19.4250	0.2368	98.9034	99.0000	-22.9	0.327	0	0.65
47	319.1156942	-67.8723511	18.4648	0.0464	18.2812	0.0684	18.8307	0.3892	-28.9	0.143	0	0.27
49	319.1403561	-67.8737181	18.8228	0.0555	17.8920	0.0415	17.7592	0.1252	15.4	0.163	0	0.86
50	318.9887943	-67.8741762	19.4413	0.0980	18.7229	0.0894	18.2056	0.1909	0.8	0.255	0	0.45
53	318.9820824	-67.8756356	17.6736	0.0228	17.5187	0.0338	17.6639	0.1316	43.4	0.064	0	0.66
55	319.1872397	-67.8755656	17.6576	0.0254	16.9751	0.0236	16.2542	0.0413	-59.8	0.030	0	0.02
56	319.1321671	-67.8755381	19.3303	0.0734	18.7074	0.0727	17.9228	0.1211	42.2	0.425	0	0.15
57	319.0108627	-67.8759155	19.7663	0.1057	18.9155	0.0852	18.8964	0.2874	-26.8	0.241	0	0.59
59	318.9601987	-67.8762278	19.1939	0.0682	18.6810	0.0745	18.5069	0.2177	-63.5	0.082	0	0.74
60	319.1922360	-67.8757992	18.6102	0.0676	18.0221	0.0694	18.1114	0.2593	-24.8	0.253	0	0.00
61	319.1581288	-67.8765821	19.0058	0.0783	18.3398	0.0748	17.8975	0.1713	45.7	0.163	0	0.24
62	319.2300046	-67.8767097	18.5762	0.0423	17.7345	0.0341	17.0111	0.0597	-67.9	0.126	0	0.10
65	319.1062960	-67.8784038	19.4538	0.0603	19.2678	0.0878	18.6511	0.1705	44.7	0.034	0	0.72
66	319.2033338	-67.8782619	19.0021	0.0530	18.3014	0.0485	17.9297	0.1176	-44.7	0.128	0	0.13
67	318.9339854	-67.8792624	19.9051	0.1131	19.1088	0.0959	19.9280	0.6992	-89.2	0.183	0	0.60
70	319.1875859	-67.8793566	19.4473	0.0856	18.9264	0.0932	18.7754	0.2786	79.6	0.137	0	0.45
71	319.2122106	-67.8796160	18.7155	0.0564	18.2618	0.0651	17.9430	0.1668	-79.6	0.082	0	0.12
72	318.9290929	-67.8802819	19.3915	0.0611	18.5789	0.0506	17.7647	0.0815	78.3	0.210	0	0.29
73	319.1861455	-67.8809014	18.2548	0.0329	17.5901	0.0310	17.3415	0.0837	22.9	0.049	0	0.85
74	319.0379316	-67.8813273	18.7380	0.0579	18.4408	0.0772	18.8071	0.3716	74.8	0.053	0	0.28
76	319.2076970	-67.8828622	17.9430	0.0410	17.2475	0.0380	16.6230	0.0734	-6.5	0.327	1	0.02
77	319.1808763	-67.8829391	19.3437	0.0826	18.1507	0.0488	17.0793	0.0624	37.6	0.191	0	0.26
79	318.9992900	-67.8841446	17.5775	0.0298	16.9944	0.0305	16.2666	0.0535	47.5	0.105	0	0.05
83	318.9729608	-67.8856331	18.9539	0.0844	18.4438	0.0931	17.7107	0.1635	-42.4	0.082	0	0.03
84	319.1068333	-67.8853149	19.4444	0.0879	19.1340	0.1161	20.1889	1.0548	56.3	0.020	0	0.02
85	318.8990254	-67.8863382	19.2515	0.0878	18.1618	0.0570	17.2769	0.0867	-82.6	0.270	0	0.00
87	319.0632710	-67.8872513	16.3625	0.0129	15.6503	0.0116	15.0309	0.0222	77.9	0.077	0	0.03

Figure A.19: Catalogue for Pavo p1m1

89	318.9723134	-67.8872611	18.9269	0.0670	18.1015	0.0552	17.4055	0.0999	78.9	0.067	0	0.28
90	319.0478415	-67.8870328	19.3439	0.0710	19.1141	0.1003	18.6344	0.2216	39.2	0.094	0	0.61
93	319.1724672	-67.8883687	19.4339	0.1007	18.8868	0.1074	18.9508	0.3921	26.1	0.087	0	0.43
95	318.9872313	-67.8896925	18.4351	0.0477	18.1845	0.0662	17.2201	0.0938	-53.6	0.203	0	0.03
96	318.9305314	-67.8898270	19.0120	0.0502	18.1793	0.0408	17.2840	0.0610	28.9	0.300	0	0.01
97	319.0674358	-67.8905459	16.4940	0.0112	15.8466	0.0105	15.4876	0.0252	-56.3	0.242	0	0.03
98	319.1600127	-67.8895844	19.5090	0.0997	18.7690	0.0891	18.1431	0.1723	17.7	0.099	0	0.58
99	319.2101897	-67.8901285	19.4302	0.0967	19.0685	0.1221	18.1926	0.1879	10.9	0.218	0	0.04
100	319.0831434	-67.8909888	17.9958	0.0503	17.6063	0.0620	16.9128	0.1128	-10.9	0.220	0	0.01
102	319.1659767	-67.8906664	18.8932	0.0748	18.3178	0.0776	17.6032	0.1385	-2.5	0.040	0	0.02
103	319.1577883	-67.8906644	19.8263	0.1109	19.0956	0.0998	17.9770	0.1228	2.4	0.186	0	0.19
104	318.9248985	-67.8924047	19.3117	0.0589	18.8044	0.0642	18.0755	0.1124	-88.4	0.163	0	0.16
107	318.9887848	-67.8939628	18.2055	0.0316	17.6534	0.0329	16.8814	0.0552	-86.2	0.053	0	0.06
110	319.0819228	-67.8949693	19.1894	0.0940	18.8746	0.1241	18.3773	0.2707	-89.2	0.219	0	0.00
111	319.0226006	-67.8956986	17.9158	0.0422	17.3733	0.0451	16.8097	0.0922	-37.1	0.143	0	0.04
112	319.2263657	-67.8951706	18.2580	0.0352	17.7860	0.0396	17.8165	0.1387	-59.5	0.100	0	0.77
113	318.9680485	-67.8959046	19.6085	0.1010	19.1284	0.1144	18.6688	0.2579	-25.7	0.313	0	0.26
115	318.9634906	-67.8967730	19.0129	0.0512	18.3149	0.0470	18.4222	0.1764	63.1	0.062	0	0.85
118	319.0204515	-67.8972332	19.0159	0.0815	18.5060	0.0899	19.3802	0.6922	44.2	0.132	0	0.18
119	319.0634533	-67.8975946	18.5261	0.0543	17.7037	0.0449	16.9467	0.0768	27.6	0.058	0	0.36
120	318.9949008	-67.8987799	18.6083	0.0381	18.1042	0.0414	18.1850	0.1514	-50.7	0.106	0	0.80
121	318.8952696	-67.8993669	19.2696	0.0786	18.9336	0.1013	19.2070	0.4481	-16.6	0.125	16	0.68
122	318.9370351	-67.9011462	17.8778	0.0263	17.3108	0.0269	16.4220	0.0405	-35.1	0.037	0	0.71
123	319.1059901	-67.9009705	19.1594	0.0855	18.7134	0.0999	18.9229	0.4172	-86.4	0.183	0	0.09
124	319.1405711	-67.9012838	17.7310	0.0289	16.7346	0.0203	16.1365	0.0397	24.2	0.192	0	0.01
125	319.0117192	-67.9013027	19.5139	0.1063	18.4620	0.0715	17.2952	0.0841	-33.7	0.193	0	0.01
127	318.9182429	-67.9020462	19.3685	0.0620	18.8932	0.0696	18.5627	0.1756	-57.1	0.106	0	0.86
130	319.2011725	-67.9031063	19.4601	0.0700	19.1625	0.0927	18.8144	0.2310	-65.6	0.236	0	0.36
131	318.9354215	-67.9044791	17.5013	0.0291	16.7058	0.0245	16.0199	0.0446	-78.9	0.026	0	0.02
132	319.1646011	-67.9047837	19.1286	0.0844	18.5164	0.0847	18.1745	0.2129	-61.8	0.127	0	0.06
133	319.0907101	-67.9054160	17.6095	0.0282	17.0239	0.0288	16.9952	0.0956	-67.7	0.075	0	0.50
134	319.0229164	-67.9061307	19.3734	0.0970	18.3697	0.0682	17.7775	0.1358	37.6	0.442	0	0.40
135	318.9372742	-67.9064478	19.4906	0.0960	18.9116	0.0993	18.7439	0.2927	-69.4	0.094	0	0.54
139	319.0206141	-67.9065760	19.0626	0.0842	18.7182	0.1081	18.3668	0.2696	-6.2	0.531	0	0.00
142	319.1074319	-67.9076826	19.4079	0.1004	18.2064	0.0590	17.6596	0.1223	16.6	0.129	0	0.61
144	318.9310445	-67.9089184	17.7807	0.0252	16.9951	0.0213	16.2592	0.0366	0.5	0.212	0	0.02
148	319.0100968	-67.9103480	19.6730	0.0847	19.0648	0.0849	19.3908	0.3922	-88.8	0.168	0	0.70
149	318.9720043	-67.9107192	19.7369	0.0978	19.4167	0.1279	98.9034	99.0000	79.4	0.137	0	0.51
150	319.1107452	-67.9107025	19.0315	0.0607	18.3687	0.0578	18.2753	0.1815	88.4	0.115	0	0.81
151	319.1385435	-67.9106400	19.1084	0.0543	18.4173	0.0502	18.6607	0.2134	11.0	0.011	0	0.61
152	319.0814771	-67.9112728	18.6630	0.0705	19.0027	0.1695	18.1516	0.2676	-60.7	0.608	0	0.01
154	319.0155805	-67.9137668	19.7092	0.0954	19.0790	0.0940	18.8280	0.2560	-33.6	0.204	0	0.57
155	319.1553526	-67.9137420	18.3536	0.0358	17.8120	0.0377	17.0797	0.0656	85.3	0.157	0	0.29
156	319.1413482	-67.9143657	17.8628	0.0387	17.1431	0.0351	16.8851	0.0948	-61.4	0.372	0	0.01
158	318.9383449	-67.9163007	17.8413	0.0238	17.0267	0.0195	16.2199	0.0313	3.1	0.050	0	0.03
161	319.1502463	-67.9169313	18.9635	0.0595	18.0532	0.0453	17.2580	0.0745	73.8	0.041	0	0.63
162	319.1871592	-67.9174220	18.6957	0.0582	17.9972	0.0539	17.3675	0.1035	24.1	0.307	0	0.04
164	319.1469225	-67.9182499	18.6131	0.0655	18.2360	0.0815	17.5981	0.1561	-21.3	0.311	0	0.00
166	318.9654004	-67.9195000	19.2507	0.0581	18.4161	0.0472	18.1051	0.1205	2.0	0.078	0	0.85

Figure A.20: Catalogue for Pavo p1m1 (cont.)

167	318.9931178	-67.9197327	19.3744	0.0849	18.4148	0.0620	17.3804	0.0822	-45.0	0.119	0	0.50
168	319.1646408	-67.9201752	16.3700	0.0096	15.6760	0.0085	15.1561	0.0175	74.5	0.059	3	0.03
169	319.1641245	-67.9217153	17.5686	0.0275	16.8842	0.0256	16.3697	0.0545	57.3	0.064	3	0.02
171	319.1701244	-67.9205693	18.0745	0.0477	17.7320	0.0612	17.8509	0.2351	-74.3	0.075	0	0.20
173	319.0973531	-67.9223009	17.6636	0.0327	16.9274	0.0292	16.5539	0.0708	48.4	0.288	0	0.00
174	319.1719922	-67.9229225	15.4788	0.0073	14.8539	0.0071	14.4238	0.0159	42.5	0.279	0	0.03
175	318.9757443	-67.9220999	19.7950	0.1331	18.8424	0.0981	18.8073	0.3267	-2.7	0.197	0	0.50
177	318.9043680	-67.9233617	18.7734	0.0508	18.0366	0.0452	17.5044	0.0946	-85.8	0.088	0	0.42
178	319.1952281	-67.9230114	18.2435	0.0299	17.7216	0.0318	17.5948	0.0958	78.6	0.049	0	0.80
180	318.9306404	-67.9239706	19.7562	0.0700	19.1044	0.0669	19.1760	0.2428	38.3	0.124	0	0.56
182	319.1169790	-67.9241833	19.0567	0.0831	18.8132	0.1170	17.3250	0.1027	-66.2	0.212	0	0.30
184	318.9571008	-67.9251154	18.4622	0.0532	18.4038	0.0882	17.5834	0.1429	-42.5	0.090	0	0.09
186	319.0949915	-67.9250262	19.2649	0.0696	18.5117	0.0612	19.4211	0.4826	-68.1	0.138	0	0.70
187	318.9328486	-67.9260456	19.0106	0.0488	18.6124	0.0585	18.0694	0.1213	20.3	0.145	0	0.51
189	319.1498601	-67.9264432	16.0060	0.0067	15.5044	0.0069	15.4728	0.0218	25.7	0.410	0	0.18
191	319.0887418	-67.9269455	18.3160	0.0491	17.3795	0.0366	16.5584	0.0590	72.8	0.164	0	0.01
193	319.1896387	-67.9269964	19.4663	0.0927	18.7149	0.0819	18.1134	0.1617	47.7	0.210	0	0.61
194	319.0857549	-67.9274524	19.1377	0.0901	18.3942	0.0804	18.0086	0.1939	-42.1	0.043	0	0.07
196	318.9373395	-67.9289606	19.1553	0.0804	18.6600	0.0898	18.1898	0.2004	74.7	0.208	0	0.00
197	319.0828972	-67.9289370	19.0737	0.0828	18.7713	0.1104	18.1626	0.2174	1.6	0.209	0	0.03
202	318.9510417	-67.9324664	18.6645	0.0510	17.9892	0.0481	17.2377	0.0825	-71.5	0.104	0	0.07
203	318.9147135	-67.9326499	18.6774	0.0398	18.0337	0.0381	17.8885	0.1132	-15.6	0.090	0	0.83
205	319.2129821	-67.9327022	19.4502	0.0672	19.1048	0.0851	19.0898	0.2874	27.5	0.178	0	0.69
207	319.1996814	-67.9337072	19.2589	0.0585	18.5296	0.0523	17.9532	0.1049	-69.4	0.144	0	0.73
208	318.9098083	-67.9352859	17.9070	0.0462	17.7263	0.0688	17.6396	0.2189	57.3	0.196	0	0.00
209	318.9451414	-67.9357811	18.7783	0.0745	18.2289	0.0792	18.5078	0.3526	26.3	0.137	0	0.00
210	318.9980342	-67.9360736	19.1080	0.0543	18.5361	0.0558	18.0443	0.1212	34.8	0.216	0	0.06
211	319.0026108	-67.9360300	19.4210	0.0878	19.3298	0.1416	18.8334	0.3090	51.1	0.037	0	0.69
214	318.9107364	-67.9377120	18.8059	0.0629	18.9190	0.1221	18.7808	0.3706	63.7	0.385	0	0.40
215	319.1303943	-67.9379292	19.5170	0.0689	19.1647	0.0867	19.0609	0.2697	-15.1	0.191	0	0.37
216	319.1275484	-67.9385193	18.6098	0.0402	18.2034	0.0478	18.0023	0.1355	87.2	0.059	0	0.78
217	319.0894328	-67.9396307	19.5035	0.0630	18.7301	0.0540	18.1956	0.1123	-81.9	0.292	0	0.01
218	318.9063920	-67.9399366	19.9265	0.0984	18.9879	0.0731	18.2528	0.1273	-89.3	0.192	0	0.56
219	319.1476643	-67.9405328	18.4659	0.0420	17.8182	0.0404	17.3710	0.0915	71.9	0.098	0	0.02
220	319.1015658	-67.9410057	17.6781	0.0309	16.9840	0.0286	16.5009	0.0627	-65.1	0.408	0	0.00
221	319.0758418	-67.9413767	18.8455	0.0531	18.1482	0.0489	18.0439	0.1518	-16.5	0.079	0	0.75
222	318.9858119	-67.9418418	19.8502	0.1062	19.2972	0.1123	19.2494	0.3693	89.0	0.189	0	0.28
225	318.9567173	-67.9420754	19.3985	0.0914	18.8091	0.0936	17.9488	0.1460	-3.1	0.023	0	0.13
226	319.0264998	-67.9421534	18.3398	0.0566	17.7489	0.0580	17.4888	0.1569	8.3	0.059	0	0.01
227	319.2081961	-67.9419195	18.4538	0.0513	18.0509	0.0620	17.8209	0.1725	-28.9	0.081	0	0.73
228	319.1305283	-67.9424622	18.1976	0.0306	17.8676	0.0388	17.6962	0.1128	-57.0	0.080	0	0.89
230	319.1737935	-67.9429677	18.4795	0.0599	17.6368	0.0487	16.9891	0.0923	76.2	0.304	0	0.01
231	319.0330059	-67.9433263	19.1847	0.0747	18.4890	0.0693	18.9241	0.3547	53.6	0.095	0	0.51
232	319.2052351	-67.9430109	18.3730	0.0375	17.9671	0.0448	18.0517	0.1651	18.5	0.023	0	0.87
233	319.2145687	-67.9427414	19.7151	0.0736	18.8670	0.0590	18.8586	0.1991	-76.4	0.028	0	0.63
236	319.0635365	-67.9448769	18.8887	0.0681	18.4309	0.0786	17.3129	0.0968	-61.6	0.312	0	0.00
237	318.9999882	-67.9450040	19.6369	0.1171	19.0791	0.1237	18.3560	0.2192	-89.0	0.253	0	0.10
241	319.0106103	-67.9461039	18.2682	0.0353	17.5735	0.0324	17.0404	0.0676	80.1	0.055	0	0.00
243	318.9376599	-67.9460383	19.8060	0.0999	18.8163	0.0709	17.7821	0.0940	0.3	0.185	0	0.26

Figure A.21: Catalogue for Pavo p1m1 (cont.)

245	319.1392250	-67.9469163	20.0400	0.1278	19.2482	0.1089	20.4032	1.0828	15.4	0.269	0	0.35
246	319.1558080	-67.9488651	17.9723	0.0416	17.5343	0.0487	17.1408	0.1166	-70.8	0.057	0	0.02
248	319.0697122	-67.9500238	18.9222	0.0490	18.0467	0.0384	17.6579	0.0911	77.7	0.106	3	0.08
250	319.1021599	-67.9501383	18.5078	0.0362	17.8740	0.0350	17.7768	0.1084	-85.2	0.063	0	0.89
251	319.2306130	-67.9497182	19.0038	0.0650	18.5936	0.0782	19.0181	0.3966	-72.1	0.182	0	0.66
252	318.8941092	-67.9508911	19.2806	0.0583	20.0499	0.2034	19.0729	0.2855	-73.1	0.263	24	0.74
253	319.1464161	-67.9505923	17.7071	0.0254	17.1376	0.0261	17.1091	0.0862	27.2	0.089	0	0.61
254	319.1045514	-67.9513807	19.3171	0.0912	18.2507	0.0605	17.6896	0.1239	16.4	0.300	0	0.13
256	319.0373377	-67.9526674	19.0809	0.0664	18.4189	0.0634	17.3488	0.0813	83.3	0.457	0	0.00
257	318.9106498	-67.9534834	18.1770	0.0526	20.6304	0.8811	18.9531	0.6509	-70.5	0.692	0	0.01
258	319.1193502	-67.9530654	19.1188	0.0802	18.4701	0.0778	17.9256	0.1621	53.8	0.141	0	0.25
261	319.0822290	-67.9540717	18.4422	0.0516	18.8136	0.1270	18.7871	0.4274	72.0	0.511	0	0.35
263	318.9987818	-67.9555602	19.2263	0.0804	18.2334	0.0570	17.7176	0.1215	77.7	0.270	0	0.06
264	319.1536796	-67.9553487	19.0269	0.0709	18.7714	0.0984	18.2312	0.2060	74.7	0.145	0	0.32
266	318.9268244	-67.9578214	19.0546	0.0709	18.6819	0.0884	17.7527	0.1294	72.4	0.350	0	0.00
268	319.0985916	-67.9587243	16.7265	0.0103	16.1625	0.0102	16.1046	0.0318	79.4	0.226	0	0.17
269	318.9808484	-67.9589878	19.2412	0.0896	18.5454	0.0833	17.7072	0.1326	13.4	0.237	0	0.15
271	318.9096214	-67.9595074	18.6742	0.0676	18.4307	0.0951	19.0502	0.5797	47.2	0.479	0	0.09
273	319.0810955	-67.9592832	17.9011	0.0451	18.2010	0.1044	17.9116	0.2760	-13.3	0.196	0	0.12
274	319.1399061	-67.9594921	18.4407	0.0532	17.8492	0.0543	17.8034	0.1788	-40.0	0.107	0	0.39
276	319.2116848	-67.9600075	19.3039	0.0839	19.2129	0.1354	18.4120	0.2234	-89.4	0.196	0	0.66
278	319.1732848	-67.9603711	18.8550	0.0624	18.7358	0.0979	19.3436	0.5892	62.7	0.096	0	0.87
281	319.2351502	-67.9611185	18.4762	0.0343	18.0243	0.0389	17.7300	0.1009	10.2	0.019	16	0.80
284	319.0105657	-67.9626463	19.4383	0.0681	18.4046	0.0463	17.6361	0.0778	85.4	0.222	0	0.51
286	319.0909305	-67.9648639	16.9088	0.0153	16.0701	0.0122	15.3161	0.0206	-53.9	0.446	0	0.03
287	319.1157153	-67.9642173	18.4936	0.0573	18.1586	0.0740	17.3443	0.1205	34.3	0.127	0	0.00
288	319.0676991	-67.9642552	19.2391	0.0922	18.6505	0.0946	17.5933	0.1233	-13.6	0.132	0	0.02
292	318.9958926	-67.9654137	19.1856	0.0605	18.7832	0.0728	19.8819	0.6842	-14.6	0.018	0	0.69
293	319.0416034	-67.9652959	19.4343	0.0611	19.0168	0.0722	19.1754	0.2850	-2.5	0.134	0	0.61
294	319.0782291	-67.9666800	19.7409	0.1336	19.4587	0.1820	18.3725	0.2312	-72.1	0.093	0	0.69
295	318.9471338	-67.9675081	17.2467	0.0229	16.5485	0.0210	15.9869	0.0427	-12.2	0.266	0	0.01
297	318.9308411	-67.9681883	19.4794	0.0806	18.6991	0.0692	18.5555	0.2074	-31.2	0.113	0	0.01
298	319.0035939	-67.9680843	19.3292	0.0781	19.2686	0.1293	18.5702	0.2344	-41.4	0.148	0	0.58
301	318.9526678	-67.9688121	18.6905	0.0446	18.3154	0.0548	18.2311	0.1734	47.0	0.057	0	0.45
302	319.0718919	-67.9692622	16.2815	0.0172	15.7048	0.0177	15.1650	0.0370	3.6	0.458	0	0.01
303	319.2279525	-67.9687847	17.2550	0.0255	16.6424	0.0253	16.0672	0.0511	-12.0	0.172	0	0.02
305	319.1427960	-67.9691327	19.1379	0.0911	18.2874	0.0736	18.4123	0.2841	-74.5	0.521	0	0.00
306	318.9743071	-67.9704427	19.7223	0.1190	19.1452	0.1235	18.4419	0.2227	-79.4	0.034	0	0.61
309	319.1556105	-67.9715442	19.1601	0.0840	19.1613	0.1478	18.0475	0.1830	72.5	0.162	0	0.08
310	319.0095047	-67.9719404	19.5856	0.0819	18.9479	0.0799	18.5113	0.1833	86.0	0.016	1	0.33
311	319.1441992	-67.9723430	17.9505	0.0372	17.7961	0.0564	18.0267	0.2394	-49.4	0.119	0	0.84
312	319.1006800	-67.9730584	15.6832	0.0059	15.1978	0.0061	14.8575	0.0147	-76.9	0.430	0	0.80
313	318.9938011	-67.8541862	17.4660	0.0228	16.5298	0.0168	15.9272	0.0327	-54.2	0.137	16	0.02
317	319.0361684	-67.8541893	18.9059	0.0758	18.9640	0.1406	17.1598	0.0924	-67.4	0.273	0	0.55
318	318.8999480	-67.9757923	19.4089	0.0586	18.6992	0.0531	19.6219	0.4203	-27.1	0.109	0	0.87
319	319.0197134	-67.9759289	18.4525	0.0591	17.9453	0.0653	17.6066	0.1644	-80.0	0.118	0	0.52
320	319.2042391	-67.9754956	19.0434	0.0619	18.7850	0.0852	18.2914	0.1860	-82.5	0.143	0	0.24
321	319.2119546	-67.9752465	19.4031	0.0871	19.3987	0.1522	19.1577	0.4204	-2.1	0.193	0	0.37
324	319.1859794	-67.9772057	18.8630	0.0482	18.1601	0.0440	17.1346	0.0586	-89.9	0.099	0	0.16

Figure A.22: Catalogue for Pavo p1m1 (cont.)

325	318.9799445	-67.9778689	19.7615	0.1259	18.9747	0.1080	18.3702	0.2132	70.2	0.126	0	0.62
327	319.0077897	-67.9790543	19.8126	0.1005	19.3281	0.1130	18.6549	0.2092	-89.3	0.258	0	0.41
328	319.1799226	-67.9789840	19.6464	0.0668	19.1732	0.0750	19.4150	0.3195	-87.3	0.144	0	0.58
330	319.0431722	-67.9794946	19.6572	0.0675	18.7089	0.0494	18.9084	0.2007	-88.1	0.049	0	0.63
331	319.2271866	-67.8541955	19.7356	0.1105	19.4829	0.1541	19.1190	0.3801	-73.8	0.155	0	0.23
332	319.0250718	-67.8557416	18.8314	0.0780	18.4253	0.0946	17.1262	0.0988	-75.6	0.199	0	0.07
333	318.9823638	-67.8568755	18.9377	0.0804	20.4543	0.5706	20.8205	2.7662	58.2	0.288	2	0.20
334	319.1101145	-67.8563465	18.8226	0.0736	18.4747	0.0941	17.5366	0.1369	-41.8	0.110	0	0.03
335	319.0262616	-67.8567026	18.2305	0.0529	17.8888	0.0680	16.6840	0.0773	-40.4	0.214	0	0.39

Figure A.23: Catalogue for Pavo p1m1 (cont.)

6	319.1970554	-67.9799223	18.4648	0.0354	17.5016	0.0255	16.9572	0.0521	-20.4	0.066	16	0.57
8	319.0820983	-67.9807760	18.7793	0.0619	18.8339	0.1140	19.0495	0.4789	-74.4	0.441	24	0.00
9	318.8949894	-67.9813082	19.4319	0.0677	19.5602	0.1322	18.8279	0.2319	-1.2	0.386	24	0.69
11	319.0696326	-67.8541920	16.0933	0.0092	15.4344	0.0085	15.1959	0.0228	-79.6	0.214	24	0.03
12	319.0904834	-67.8568913	19.1272	0.0752	18.4959	0.0740	18.3591	0.2242	71.1	0.192	0	0.68
15	319.1929752	-67.8581002	18.7926	0.0678	18.3150	0.0769	18.3578	0.2751	47.2	0.245	3	0.08
19	319.2075030	-67.8603368	18.4086	0.0345	18.1723	0.0477	17.7432	0.1097	75.9	0.027	0	0.63
20	319.1320143	-67.8606079	19.2482	0.0884	19.2206	0.1515	18.2432	0.2127	19.2	0.209	0	0.10
21	319.1636317	-67.8619401	18.0097	0.0263	17.2564	0.0227	17.2107	0.0733	71.2	0.040	0	0.85
22	318.9862484	-67.8624983	18.9789	0.0802	18.8171	0.1217	18.3760	0.2797	12.8	0.102	0	0.56
25	319.1079035	-67.8633297	19.1499	0.0597	18.1151	0.0405	17.3135	0.0661	77.4	0.135	0	0.09
26	319.1344021	-67.8645725	18.2833	0.0423	17.8574	0.0499	17.2312	0.0962	-24.2	0.420	0	0.00
28	319.0883666	-67.8672877	19.5708	0.0662	19.1269	0.0764	18.7030	0.1767	75.7	0.114	0	0.68
29	319.1491992	-67.8675824	18.5289	0.0503	17.8447	0.0470	17.1840	0.0878	35.0	0.107	0	0.06
31	319.0163335	-67.8684701	19.6695	0.1002	19.6175	0.1677	18.7654	0.2641	0.8	0.178	0	0.39
32	318.9107333	-67.8690442	18.5008	0.0626	18.7606	0.1396	98.9034	99.0000	-2.2	0.337	0	0.06
35	318.9103603	-67.8697918	18.0647	0.0441	18.6957	0.1377	20.3614	2.2041	-8.5	0.464	1	0.00
36	319.0120706	-67.8702254	16.9855	0.0151	16.2203	0.0129	15.5261	0.0229	-53.7	0.170	0	0.02
39	319.1122146	-67.8697799	18.5444	0.0403	17.9878	0.0419	17.9193	0.1341	85.1	0.097	0	0.79
41	319.1353143	-67.8706341	19.0009	0.0656	18.0936	0.0502	17.0975	0.0688	34.4	0.131	0	0.11
44	319.0166497	-67.8716878	19.2787	0.0705	18.6590	0.0699	17.9998	0.1308	6.7	0.240	0	0.45
45	319.1375865	-67.8717438	18.9820	0.0578	18.4994	0.0648	18.9727	0.3427	2.4	0.008	0	0.56
46	318.9111279	-67.8723901	19.1364	0.1029	19.4250	0.2368	98.9034	99.0000	-22.9	0.327	0	0.65
47	319.1156942	-67.8723511	18.4648	0.0464	18.2812	0.0684	18.8307	0.3892	-28.9	0.143	0	0.27
49	319.1403561	-67.8737181	18.8228	0.0555	17.8920	0.0415	17.7592	0.1252	15.4	0.163	0	0.86
50	318.9887943	-67.8741762	19.4413	0.0980	18.7229	0.0894	18.2056	0.1909	0.8	0.255	0	0.45
53	318.9820824	-67.8756356	17.6736	0.0228	17.5187	0.0338	17.6639	0.1316	43.4	0.064	0	0.66
55	319.1872397	-67.8755656	17.6576	0.0254	16.9751	0.0236	16.2542	0.0413	-59.8	0.030	0	0.02
56	319.1321671	-67.8755381	19.3303	0.0734	18.7074	0.0727	17.9228	0.1211	42.2	0.425	0	0.15
57	319.0108627	-67.8759155	19.7663	0.1057	18.9155	0.0852	18.8964	0.2874	-26.8	0.241	0	0.59
59	318.9601987	-67.8762278	19.1939	0.0682	18.6810	0.0745	18.5069	0.2177	-63.5	0.082	0	0.74
60	319.1922360	-67.8757992	18.6102	0.0676	18.0221	0.0694	18.1114	0.2593	-24.8	0.253	0	0.00
61	319.1581288	-67.8765821	19.0058	0.0783	18.3398	0.0748	17.8975	0.1713	45.7	0.163	0	0.24
62	319.2300046	-67.8767097	18.5762	0.0423	17.7345	0.0341	17.0111	0.0597	-67.9	0.126	0	0.10
65	319.1062960	-67.8784038	19.4538	0.0603	19.2678	0.0878	18.6511	0.1705	44.7	0.034	0	0.72
66	319.2033338	-67.8782619	19.0021	0.0530	18.3014	0.0485	17.9297	0.1176	-44.7	0.128	0	0.13
67	318.9339854	-67.8792624	19.9051	0.1131	19.1088	0.0959	19.9280	0.6992	-89.2	0.183	0	0.60
70	319.1875859	-67.8793566	19.4473	0.0856	18.9264	0.0932	18.7754	0.2786	79.6	0.137	0	0.45
71	319.2122106	-67.8796160	18.7155	0.0564	18.2618	0.0651	17.9430	0.1668	-79.6	0.082	0	0.12
72	318.9290929	-67.8802819	19.3915	0.0611	18.5789	0.0506	17.7647	0.0815	78.3	0.210	0	0.29
73	319.1861455	-67.8809014	18.2548	0.0329	17.5901	0.0310	17.3415	0.0837	22.9	0.049	0	0.85
74	319.0379316	-67.8813273	18.7380	0.0579	18.4408	0.0772	18.8071	0.3716	74.8	0.053	0	0.28
76	319.2076970	-67.8828622	17.9430	0.0410	17.2475	0.0380	16.6230	0.0734	-6.5	0.327	1	0.02
77	319.1808763	-67.8829391	19.3437	0.0826	18.1507	0.0488	17.0793	0.0624	37.6	0.191	0	0.26
79	318.9992900	-67.8841446	17.5775	0.0298	16.9944	0.0305	16.2666	0.0535	47.5	0.105	0	0.05
83	318.9729608	-67.8856331	18.9539	0.0844	18.4438	0.0931	17.7107	0.1635	-42.4	0.082	0	0.03
84	319.1068333	-67.8853149	19.4444	0.0879	19.1340	0.1161	20.1889	1.0548	56.3	0.020	0	0.02
85	318.8990254	-67.8863382	19.2515	0.0878	18.1618	0.0570	17.2769	0.0867	-82.6	0.270	0	0.00
87	319.0632710	-67.8872513	16.3625	0.0129	15.6503	0.0116	15.0309	0.0222	77.9	0.077	0	0.03

Figure A.24: Catalogue for Pavo p1p1

89	318.9723134	-67.8872611	18.9269	0.0670	18.1015	0.0552	17.4055	0.0999	78.9	0.067	0	0.28
90	319.0478415	-67.8870328	19.3439	0.0710	19.1141	0.1003	18.6344	0.2216	39.2	0.094	0	0.61
93	319.1724672	-67.8883687	19.4339	0.1007	18.8868	0.1074	18.9508	0.3921	26.1	0.087	0	0.43
95	318.9872313	-67.8896925	18.4351	0.0477	18.1845	0.0662	17.2201	0.0938	-53.6	0.203	0	0.03
96	318.9305314	-67.8898270	19.0120	0.0502	18.1793	0.0408	17.2840	0.0610	28.9	0.300	0	0.01
97	319.0674358	-67.8905459	16.4940	0.0112	15.8466	0.0105	15.4876	0.0252	-56.3	0.242	0	0.03
98	319.1600127	-67.8895844	19.5090	0.0997	18.7690	0.0891	18.1431	0.1723	17.7	0.099	0	0.58
99	319.2101897	-67.8901285	19.4302	0.0967	19.0685	0.1221	18.1926	0.1879	10.9	0.218	0	0.04
100	319.0831434	-67.8909888	17.9958	0.0503	17.6063	0.0620	16.9128	0.1128	-10.9	0.220	0	0.01
102	319.1659767	-67.8906664	18.8932	0.0748	18.3178	0.0776	17.6032	0.1385	-2.5	0.040	0	0.02
103	319.1577883	-67.8906644	19.8263	0.1109	19.0956	0.0998	17.9770	0.1228	2.4	0.186	0	0.19
104	318.9248985	-67.8924047	19.3117	0.0589	18.8044	0.0642	18.0755	0.1124	-88.4	0.163	0	0.16
107	318.9887848	-67.8939628	18.2055	0.0316	17.6534	0.0329	16.8814	0.0552	-86.2	0.053	0	0.06
110	319.0819228	-67.8949693	19.1894	0.0940	18.8746	0.1241	18.3773	0.2707	-89.2	0.219	0	0.00
111	319.0226006	-67.8956986	17.9158	0.0422	17.3733	0.0451	16.8097	0.0922	-37.1	0.143	0	0.04
112	319.2263657	-67.8951706	18.2580	0.0352	17.7860	0.0396	17.8165	0.1387	-59.5	0.100	0	0.77
113	318.9680485	-67.8959046	19.6085	0.1010	19.1284	0.1144	18.6688	0.2579	-25.7	0.313	0	0.26
115	318.9634906	-67.8967730	19.0129	0.0512	18.3149	0.0470	18.4222	0.1764	63.1	0.062	0	0.85
118	319.0204515	-67.8972332	19.0159	0.0815	18.5060	0.0899	19.3802	0.6922	44.2	0.132	0	0.18
119	319.0634533	-67.8975946	18.5261	0.0543	17.7037	0.0449	16.9467	0.0768	27.6	0.058	0	0.36
120	318.9949008	-67.8987799	18.6083	0.0381	18.1042	0.0414	18.1850	0.1514	-50.7	0.106	0	0.80
121	318.8952696	-67.8993669	19.2696	0.0786	18.9336	0.1013	19.2070	0.4481	-16.6	0.125	16	0.68
122	318.9370351	-67.9011462	17.8778	0.0263	17.3108	0.0269	16.4220	0.0405	-35.1	0.037	0	0.71
123	319.1059901	-67.9009705	19.1594	0.0855	18.7134	0.0999	18.9229	0.4172	-86.4	0.183	0	0.09
124	319.1405711	-67.9012838	17.7310	0.0289	16.7346	0.0203	16.1365	0.0397	24.2	0.192	0	0.01
125	319.0117192	-67.9013027	19.5139	0.1063	18.4620	0.0715	17.2952	0.0841	-33.7	0.193	0	0.01
127	318.9182429	-67.9020462	19.3685	0.0620	18.8932	0.0696	18.5627	0.1756	-57.1	0.106	0	0.86
130	319.2011725	-67.9031063	19.4601	0.0700	19.1625	0.0927	18.8144	0.2310	-65.6	0.236	0	0.36
131	318.9354215	-67.9044791	17.5013	0.0291	16.7058	0.0245	16.0199	0.0446	-78.9	0.026	0	0.02
132	319.1646011	-67.9047837	19.1286	0.0844	18.5164	0.0847	18.1745	0.2129	-61.8	0.127	0	0.06
133	319.0907101	-67.9054160	17.6095	0.0282	17.0239	0.0288	16.9952	0.0956	-67.7	0.075	0	0.50
134	319.0229164	-67.9061307	19.3734	0.0970	18.3697	0.0682	17.7775	0.1358	37.6	0.442	0	0.40
135	318.9372742	-67.9064478	19.4906	0.0960	18.9116	0.0993	18.7439	0.2927	-69.4	0.094	0	0.54
139	319.0206141	-67.9065760	19.0626	0.0842	18.7182	0.1081	18.3668	0.2696	-6.2	0.531	0	0.00
142	319.1074319	-67.9076826	19.4079	0.1004	18.2064	0.0590	17.6596	0.1223	16.6	0.129	0	0.61
144	318.9310445	-67.9089184	17.7807	0.0252	16.9951	0.0213	16.2592	0.0366	0.5	0.212	0	0.02
148	319.0100968	-67.9103480	19.6730	0.0847	19.0648	0.0849	19.3908	0.3922	-88.8	0.168	0	0.70
149	318.9720043	-67.9107192	19.7369	0.0978	19.4167	0.1279	98.9034	99.0000	79.4	0.137	0	0.51
150	319.1107452	-67.9107025	19.0315	0.0607	18.3687	0.0578	18.2753	0.1815	88.4	0.115	0	0.81
151	319.1385435	-67.9106400	19.1084	0.0543	18.4173	0.0502	18.6607	0.2134	11.0	0.011	0	0.61
152	319.0814771	-67.9112728	18.6630	0.0705	19.0027	0.1695	18.1516	0.2676	-60.7	0.608	0	0.01
154	319.0155805	-67.9137668	19.7092	0.0954	19.0790	0.0940	18.8280	0.2560	-33.6	0.204	0	0.57
155	319.1553526	-67.9137420	18.3536	0.0358	17.8120	0.0377	17.0797	0.0656	85.3	0.157	0	0.29
156	319.1413482	-67.9143657	17.8628	0.0387	17.1431	0.0351	16.8851	0.0948	-61.4	0.372	0	0.01
158	318.9383449	-67.9163007	17.8413	0.0238	17.0267	0.0195	16.2199	0.0313	3.1	0.050	0	0.03
161	319.1502463	-67.9169313	18.9635	0.0595	18.0532	0.0453	17.2580	0.0745	73.8	0.041	0	0.63
162	319.1871592	-67.9174220	18.6957	0.0582	17.9972	0.0539	17.3675	0.1035	24.1	0.307	0	0.04
164	319.1469225	-67.9182499	18.6131	0.0655	18.2360	0.0815	17.5981	0.1561	-21.3	0.311	0	0.00
166	318.9654004	-67.9195000	19.2507	0.0581	18.4161	0.0472	18.1051	0.1205	2.0	0.078	0	0.85

Figure A.25: Catalogue for Pavo p1p1 (cont.)

167	318.9931178	-67.9197327	19.3744	0.0849	18.4148	0.0620	17.3804	0.0822	-45.0	0.119	0	0.50
168	319.1646408	-67.9201752	16.3700	0.0096	15.6760	0.0085	15.1561	0.0175	74.5	0.059	3	0.03
169	319.1641245	-67.9217153	17.5686	0.0275	16.8842	0.0256	16.3697	0.0545	57.3	0.064	3	0.02
171	319.1701244	-67.9205693	18.0745	0.0477	17.7320	0.0612	17.8509	0.2351	-74.3	0.075	0	0.20
173	319.0973531	-67.9223009	17.6636	0.0327	16.9274	0.0292	16.5539	0.0708	48.4	0.288	0	0.00
174	319.1719922	-67.9229225	15.4788	0.0073	14.8539	0.0071	14.4238	0.0159	42.5	0.279	0	0.03
175	318.9757443	-67.9220999	19.7950	0.1331	18.8424	0.0981	18.8073	0.3267	-2.7	0.197	0	0.50
177	318.9043680	-67.9233617	18.7734	0.0508	18.0366	0.0452	17.5044	0.0946	-85.8	0.088	0	0.42
178	319.1952281	-67.9230114	18.2435	0.0299	17.7216	0.0318	17.5948	0.0958	78.6	0.049	0	0.80
180	318.9306404	-67.9239706	19.7562	0.0700	19.1044	0.0669	19.1760	0.2428	38.3	0.124	0	0.56
182	319.1169790	-67.9241833	19.0567	0.0831	18.8132	0.1170	17.3250	0.1027	-66.2	0.212	0	0.30
184	318.9571008	-67.9251154	18.4622	0.0532	18.4038	0.0882	17.5834	0.1429	-42.5	0.090	0	0.09
186	319.0949915	-67.9250262	19.2649	0.0696	18.5117	0.0612	19.4211	0.4826	-68.1	0.138	0	0.70
187	318.9328486	-67.9260456	19.0106	0.0488	18.6124	0.0585	18.0694	0.1213	20.3	0.145	0	0.51
189	319.1498601	-67.9264432	16.0060	0.0067	15.5044	0.0069	15.4728	0.0218	25.7	0.410	0	0.18
191	319.0887418	-67.9269455	18.3160	0.0491	17.3795	0.0366	16.5584	0.0590	72.8	0.164	0	0.01
193	319.1896387	-67.9269964	19.4663	0.0927	18.7149	0.0819	18.1134	0.1617	47.7	0.210	0	0.61
194	319.0857549	-67.9274524	19.1377	0.0901	18.3942	0.0804	18.0086	0.1939	-42.1	0.043	0	0.07
196	318.9373395	-67.9289606	19.1553	0.0804	18.6600	0.0898	18.1898	0.2004	74.7	0.208	0	0.00
197	319.0828972	-67.9289370	19.0737	0.0828	18.7713	0.1104	18.1626	0.2174	1.6	0.209	0	0.03
202	318.9510417	-67.9324664	18.6645	0.0510	17.9892	0.0481	17.2377	0.0825	-71.5	0.104	0	0.07
203	318.9147135	-67.9326499	18.6774	0.0398	18.0337	0.0381	17.8885	0.1132	-15.6	0.090	0	0.83
205	319.2129821	-67.9327022	19.4502	0.0672	19.1048	0.0851	19.0898	0.2874	27.5	0.178	0	0.69
207	319.1996814	-67.9337072	19.2589	0.0585	18.5296	0.0523	17.9532	0.1049	-69.4	0.144	0	0.73
208	318.9098083	-67.9352859	17.9070	0.0462	17.7263	0.0688	17.6396	0.2189	57.3	0.196	0	0.00
209	318.9451414	-67.9357811	18.7783	0.0745	18.2289	0.0792	18.5078	0.3526	26.3	0.137	0	0.00
210	318.9980342	-67.9360736	19.1080	0.0543	18.5361	0.0558	18.0443	0.1212	34.8	0.216	0	0.06
211	319.0026108	-67.9360300	19.4210	0.0878	19.3298	0.1416	18.8334	0.3090	51.1	0.037	0	0.69
214	318.9107364	-67.9377120	18.8059	0.0629	18.9190	0.1221	18.7808	0.3706	63.7	0.385	0	0.40
215	319.1303943	-67.9379292	19.5170	0.0689	19.1647	0.0867	19.0609	0.2697	-15.1	0.191	0	0.37
216	319.1275484	-67.9385193	18.6098	0.0402	18.2034	0.0478	18.0023	0.1355	87.2	0.059	0	0.78
217	319.0894328	-67.9396307	19.5035	0.0630	18.7301	0.0540	18.1956	0.1123	-81.9	0.292	0	0.01
218	318.9063920	-67.9399366	19.9265	0.0984	18.9879	0.0731	18.2528	0.1273	-89.3	0.192	0	0.56
219	319.1476643	-67.9405328	18.4659	0.0420	17.8182	0.0404	17.3710	0.0915	71.9	0.098	0	0.02
220	319.1015658	-67.9410057	17.6781	0.0309	16.9840	0.0286	16.5009	0.0627	-65.1	0.408	0	0.00
221	319.0758418	-67.9413767	18.8455	0.0531	18.1482	0.0489	18.0439	0.1518	-16.5	0.079	0	0.75
222	318.9858119	-67.9418418	19.8502	0.1062	19.2972	0.1123	19.2494	0.3693	89.0	0.189	0	0.28
225	318.9567173	-67.9420754	19.3985	0.0914	18.8091	0.0936	17.9488	0.1460	-3.1	0.023	0	0.13
226	319.0264998	-67.9421534	18.3398	0.0566	17.7489	0.0580	17.4888	0.1569	8.3	0.059	0	0.01
227	319.2081961	-67.9419195	18.4538	0.0513	18.0509	0.0620	17.8209	0.1725	-28.9	0.081	0	0.73
228	319.1305283	-67.9424622	18.1976	0.0306	17.8676	0.0388	17.6962	0.1128	-57.0	0.080	0	0.89
230	319.1737935	-67.9429677	18.4795	0.0599	17.6368	0.0487	16.9891	0.0923	76.2	0.304	0	0.01
231	319.0330059	-67.9433263	19.1847	0.0747	18.4890	0.0693	18.9241	0.3547	53.6	0.095	0	0.51
232	319.2052351	-67.9430109	18.3730	0.0375	17.9671	0.0448	18.0517	0.1651	18.5	0.023	0	0.87
233	319.2145687	-67.9427414	19.7151	0.0736	18.8670	0.0590	18.8586	0.1991	-76.4	0.028	0	0.63
236	319.0635365	-67.9448769	18.8887	0.0681	18.4309	0.0786	17.3129	0.0968	-61.6	0.312	0	0.00
237	318.9999882	-67.9450040	19.6369	0.1171	19.0791	0.1237	18.3560	0.2192	-89.0	0.253	0	0.10
241	319.0106103	-67.9461039	18.2682	0.0353	17.5735	0.0324	17.0404	0.0676	80.1	0.055	0	0.00
243	318.9376599	-67.9460383	19.8060	0.0999	18.8163	0.0709	17.7821	0.0940	0.3	0.185	0	0.26

Figure A.26: Catalogue for Pavo p1p1 (cont.)

245	319.1392250	-67.9469163	20.0400	0.1278	19.2482	0.1089	20.4032	1.0828	15.4	0.269	0	0.35
246	319.1558080	-67.9488651	17.9723	0.0416	17.5343	0.0487	17.1408	0.1166	-70.8	0.057	0	0.02
248	319.0697122	-67.9500238	18.9222	0.0490	18.0467	0.0384	17.6579	0.0911	77.7	0.106	3	0.08
250	319.1021599	-67.9501383	18.5078	0.0362	17.8740	0.0350	17.7768	0.1084	-85.2	0.063	0	0.89
251	319.2306130	-67.9497182	19.0038	0.0650	18.5936	0.0782	19.0181	0.3966	-72.1	0.182	0	0.66
252	318.8941092	-67.9508911	19.2806	0.0583	20.0499	0.2034	19.0729	0.2855	-73.1	0.263	24	0.74
253	319.1464161	-67.9505923	17.7071	0.0254	17.1376	0.0261	17.1091	0.0862	27.2	0.089	0	0.61
254	319.1045514	-67.9513807	19.3171	0.0912	18.2507	0.0605	17.6896	0.1239	16.4	0.300	0	0.13
256	319.0373377	-67.9526674	19.0809	0.0664	18.4189	0.0634	17.3488	0.0813	83.3	0.457	0	0.00
257	318.9106498	-67.9534834	18.1770	0.0526	20.6304	0.8811	18.9531	0.6509	-70.5	0.692	0	0.01
258	319.1193502	-67.9530654	19.1188	0.0802	18.4701	0.0778	17.9256	0.1621	53.8	0.141	0	0.25
261	319.0822290	-67.9540717	18.4422	0.0516	18.8136	0.1270	18.7871	0.4274	72.0	0.511	0	0.35
263	318.9987818	-67.9555602	19.2263	0.0804	18.2334	0.0570	17.7176	0.1215	77.7	0.270	0	0.06
264	319.1536796	-67.9553487	19.0269	0.0709	18.7714	0.0984	18.2312	0.2060	74.7	0.145	0	0.32
266	318.9268244	-67.9578214	19.0546	0.0709	18.6819	0.0884	17.7527	0.1294	72.4	0.350	0	0.00
268	319.0985916	-67.9587243	16.7265	0.0103	16.1625	0.0102	16.1046	0.0318	79.4	0.226	0	0.17
269	318.9808484	-67.9589878	19.2412	0.0896	18.5454	0.0833	17.7072	0.1326	13.4	0.237	0	0.15
271	318.9096214	-67.9595074	18.6742	0.0676	18.4307	0.0951	19.0502	0.5797	47.2	0.479	0	0.09
273	319.0810955	-67.9592832	17.9011	0.0451	18.2010	0.1044	17.9116	0.2760	-13.3	0.196	0	0.12
274	319.1399061	-67.9594921	18.4407	0.0532	17.8492	0.0543	17.8034	0.1788	-40.0	0.107	0	0.39
276	319.2116848	-67.9600075	19.3039	0.0839	19.2129	0.1354	18.4120	0.2234	-89.4	0.196	0	0.66
278	319.1732848	-67.9603711	18.8550	0.0624	18.7358	0.0979	19.3436	0.5892	62.7	0.096	0	0.87
281	319.2351502	-67.9611185	18.4762	0.0343	18.0243	0.0389	17.7300	0.1009	10.2	0.019	16	0.80
284	319.0105657	-67.9626463	19.4383	0.0681	18.4046	0.0463	17.6361	0.0778	85.4	0.222	0	0.51
286	319.0909305	-67.9648639	16.9088	0.0153	16.0701	0.0122	15.3161	0.0206	-53.9	0.446	0	0.03
287	319.1157153	-67.9642173	18.4936	0.0573	18.1586	0.0740	17.3443	0.1205	34.3	0.127	0	0.00
288	319.0676991	-67.9642552	19.2391	0.0922	18.6505	0.0946	17.5933	0.1233	-13.6	0.132	0	0.02
292	318.9958926	-67.9654137	19.1856	0.0605	18.7832	0.0728	19.8819	0.6842	-14.6	0.018	0	0.69
293	319.0416034	-67.9652959	19.4343	0.0611	19.0168	0.0722	19.1754	0.2850	-2.5	0.134	0	0.61
294	319.0782291	-67.9666800	19.7409	0.1336	19.4587	0.1820	18.3725	0.2312	-72.1	0.093	0	0.69
295	318.9471338	-67.9675081	17.2467	0.0229	16.5485	0.0210	15.9869	0.0427	-12.2	0.266	0	0.01
297	318.9308411	-67.9681883	19.4794	0.0806	18.6991	0.0692	18.5555	0.2074	-31.2	0.113	0	0.01
298	319.0035939	-67.9680843	19.3292	0.0781	19.2686	0.1293	18.5702	0.2344	-41.4	0.148	0	0.58
301	318.9526678	-67.9688121	18.6905	0.0446	18.3154	0.0548	18.2311	0.1734	47.0	0.057	0	0.45
302	319.0718919	-67.9692622	16.2815	0.0172	15.7048	0.0177	15.1650	0.0370	3.6	0.458	0	0.01
303	319.2279525	-67.9687847	17.2550	0.0255	16.6424	0.0253	16.0672	0.0511	-12.0	0.172	0	0.02
305	319.1427960	-67.9691327	19.1379	0.0911	18.2874	0.0736	18.4123	0.2841	-74.5	0.521	0	0.00
306	318.9743071	-67.9704427	19.7223	0.1190	19.1452	0.1235	18.4419	0.2227	-79.4	0.034	0	0.61
309	319.1556105	-67.9715442	19.1601	0.0840	19.1613	0.1478	18.0475	0.1830	72.5	0.162	0	0.08
310	319.0095047	-67.9719404	19.5856	0.0819	18.9479	0.0799	18.5113	0.1833	86.0	0.016	1	0.33
311	319.1441992	-67.9723430	17.9505	0.0372	17.7961	0.0564	18.0267	0.2394	-49.4	0.119	0	0.84
312	319.1006800	-67.9730584	15.6832	0.0059	15.1978	0.0061	14.8575	0.0147	-76.9	0.430	0	0.80
313	318.9938011	-67.8541862	17.4660	0.0228	16.5298	0.0168	15.9272	0.0327	-54.2	0.137	16	0.02
317	319.0361684	-67.8541893	18.9059	0.0758	18.9640	0.1406	17.1598	0.0924	-67.4	0.273	0	0.55
318	318.8999480	-67.9757923	19.4089	0.0586	18.6992	0.0531	19.6219	0.4203	-27.1	0.109	0	0.87
319	319.0197134	-67.9759289	18.4525	0.0591	17.9453	0.0653	17.6066	0.1644	-80.0	0.118	0	0.52
320	319.2042391	-67.9754956	19.0434	0.0619	18.7850	0.0852	18.2914	0.1860	-82.5	0.143	0	0.24
321	319.2119546	-67.9752465	19.4031	0.0871	19.3987	0.1522	19.1577	0.4204	-2.1	0.193	0	0.37
324	319.1859794	-67.9772057	18.8630	0.0482	18.1601	0.0440	17.1346	0.0586	-89.9	0.099	0	0.16

Figure A.27: Catalogue for Pavo p1p1 (cont.)

325	318.9799445	-67.9778689	19.7615	0.1259	18.9747	0.1080	18.3702	0.2132	70.2	0.126	0	0.62
327	319.0077897	-67.9790543	19.8126	0.1005	19.3281	0.1130	18.6549	0.2092	-89.3	0.258	0	0.41
328	319.1799226	-67.9789840	19.6464	0.0668	19.1732	0.0750	19.4150	0.3195	-87.3	0.144	0	0.58
330	319.0431722	-67.9794946	19.6572	0.0675	18.7089	0.0494	18.9084	0.2007	-88.1	0.049	0	0.63
331	319.2271866	-67.8541955	19.7356	0.1105	19.4829	0.1541	19.1190	0.3801	-73.8	0.155	0	0.23
332	319.0250718	-67.8557416	18.8314	0.0780	18.4253	0.0946	17.1262	0.0988	-75.6	0.199	0	0.07
333	318.9823638	-67.8568755	18.9377	0.0804	20.4543	0.5706	20.8205	2.7662	58.2	0.288	2	0.20
334	319.1101145	-67.8563465	18.8226	0.0736	18.4747	0.0941	17.5366	0.1369	-41.8	0.110	0	0.03
335	319.0262616	-67.8567026	18.2305	0.0529	17.8888	0.0680	16.6840	0.0773	-40.4	0.214	0	0.39

Figure A.28: Catalogue for Pavo p1p1 (cont.)

3	318.9330376	-67.7491618	18.4117	0.0582	17.7229	0.0572	17.2779	0.1215	-70.8	0.041	16	0.06
4	319.0070005	-67.7494247	18.0564	0.0359	17.5506	0.0413	17.2291	0.0978	-72.5	0.120	24	0.49
5	319.1468488	-67.7488834	18.8623	0.0510	18.2744	0.0545	17.2278	0.0664	13.1	0.068	16	0.57
6	319.0944517	-67.7491192	19.0104	0.0707	18.1745	0.0607	17.2944	0.0863	61.7	0.117	16	0.59
8	318.9513746	-67.7496474	18.9308	0.0707	18.6386	0.0997	19.8628	0.9850	44.7	0.220	16	0.55
9	319.1995583	-67.7493571	19.5211	0.0801	19.2969	0.1198	21.3708	2.5825	1.3	0.202	24	0.48
10	318.9264526	-67.7480614	18.8786	0.0779	18.8732	0.1435	18.4015	0.2983	-14.3	0.009	0	0.58
15	319.2287636	-67.6190037	17.3227	0.0328	17.8852	0.1014	16.0824	0.0620	9.4	0.505	24	0.00
17	319.0147371	-67.6315312	17.6322	0.0335	16.6985	0.0262	16.2062	0.0531	-4.6	0.076	0	0.26
19	319.1574095	-67.6317545	19.0167	0.0668	18.4004	0.0699	18.8842	0.3480	-75.1	0.181	0	0.60
21	319.1887501	-67.6325508	18.7915	0.0875	18.0653	0.0834	17.4902	0.1575	73.0	0.362	0	0.04
22	319.0070148	-67.6334593	17.4275	0.0379	16.8173	0.0401	15.9378	0.0571	-79.7	0.134	0	0.07
23	319.0374124	-67.6332418	18.5586	0.0699	18.6045	0.1349	20.9302	3.6864	-76.2	0.147	0	0.74
25	318.9661912	-67.6342412	18.9948	0.0522	18.5951	0.0659	18.4539	0.1842	-45.3	0.083	0	0.64
27	318.9332222	-67.6344657	18.8415	0.0854	18.3928	0.1049	17.9998	0.2344	76.4	0.249	0	0.61
28	319.0433030	-67.6356667	17.9326	0.0408	17.0913	0.0348	16.7487	0.0809	-6.7	0.067	0	0.68
33	318.9123195	-67.6377991	18.8176	0.0466	18.0730	0.0430	17.9969	0.1269	-62.0	0.206	0	0.61
34	319.2250641	-67.6396470	18.6498	0.0707	18.0812	0.0777	17.7100	0.1768	-50.9	0.375	0	0.30
35	319.0935003	-67.6409579	18.9008	0.0766	18.6481	0.1124	18.3011	0.2618	-39.2	0.021	0	0.49
38	319.0814426	-67.6420019	19.1315	0.1012	17.8134	0.0562	17.5779	0.1445	-15.1	0.209	0	0.59
40	319.1572194	-67.6451653	18.3852	0.0510	17.7466	0.0523	17.8149	0.1778	82.0	0.103	0	0.85
41	319.1073598	-67.6453114	19.0612	0.0747	18.1845	0.0618	17.6906	0.1252	-14.6	0.196	0	0.56
42	319.2062388	-67.6451079	18.6563	0.0661	17.9298	0.0628	17.2475	0.1073	-42.7	0.102	0	0.60
43	318.9677212	-67.6461284	18.1697	0.0426	17.4001	0.0388	16.8674	0.0757	-58.7	0.150	0	0.51
44	319.0641331	-67.6458089	18.9660	0.0713	18.4842	0.0846	19.2511	0.5480	57.6	0.095	0	0.55
45	319.0461847	-67.6467299	18.7120	0.0714	18.0213	0.0702	17.1381	0.0997	15.5	0.200	0	0.54
46	318.9123177	-67.6475348	19.2162	0.0650	18.5052	0.0622	18.4626	0.1901	88.3	0.161	0	0.51
47	318.9620314	-67.6477161	17.6772	0.0318	16.9496	0.0300	16.3309	0.0540	1.4	0.112	0	0.24
48	318.9210352	-67.6483751	18.4397	0.0474	18.2736	0.0746	18.2126	0.2254	-82.9	0.057	0	0.69
49	319.1469535	-67.6483672	16.7579	0.0173	16.0353	0.0163	15.3382	0.0272	-22.2	0.088	0	0.06
51	319.1244248	-67.6488145	16.6325	0.0154	16.0824	0.0168	15.5422	0.0324	-89.3	0.091	0	0.09
52	318.8937474	-67.6488567	19.3248	0.0595	18.7326	0.0630	18.6327	0.1824	45.1	0.121	0	0.52
53	318.9297669	-67.6488263	19.3233	0.1034	18.1819	0.0674	18.2530	0.2298	24.9	0.098	0	0.52
54	319.0662640	-67.6486682	19.1554	0.0933	18.2246	0.0737	17.6202	0.1353	-74.3	0.287	0	0.49
57	318.9875411	-67.6511998	18.2418	0.0416	17.6233	0.0433	17.8395	0.1681	84.5	0.035	0	0.89
59	318.9135354	-67.6538587	19.2923	0.0764	18.8095	0.0903	18.3500	0.1892	76.2	0.143	0	0.50
60	318.9095077	-67.6548884	16.3575	0.0109	15.7142	0.0107	15.3013	0.0230	87.9	0.213	0	0.14
62	319.0117067	-67.6566007	15.9106	0.0082	15.4630	0.0096	15.3599	0.0272	-66.0	0.178	3	0.60
64	319.0422337	-67.6557354	18.6224	0.0507	17.9280	0.0493	18.1648	0.1952	-70.1	0.140	0	0.69
68	319.0597891	-67.6591076	18.4919	0.0503	18.0239	0.0602	17.6803	0.1401	-10.5	0.097	0	0.53
69	319.0765083	-67.6599682	18.0167	0.0477	17.6616	0.0636	17.2062	0.1339	-64.3	0.104	0	0.42
71	319.0147945	-67.6609338	16.3634	0.0189	15.8221	0.0212	15.2125	0.0386	-76.0	0.201	0	0.02
73	319.1378707	-67.6609783	19.3130	0.0938	18.9076	0.1196	18.1352	0.1884	43.9	0.134	0	0.49
74	318.9999001	-67.6615294	19.2225	0.0920	19.5175	0.2232	18.6811	0.3320	-74.4	0.287	0	0.49
75	318.9200647	-67.6621252	18.2881	0.0726	17.9216	0.0964	18.0326	0.3425	12.2	0.070	0	0.66
77	318.9098238	-67.6628449	17.6843	0.0303	16.9447	0.0282	16.4418	0.0565	-10.6	0.146	0	0.74
78	319.1395644	-67.6623563	18.1721	0.0466	17.6788	0.0546	19.8708	1.3117	-87.8	0.093	0	0.86
80	319.1350331	-67.6635063	18.6519	0.0667	18.1876	0.0805	17.9313	0.2037	-45.2	0.152	0	0.65
81	319.1584475	-67.6639705	18.1004	0.0521	17.3679	0.0493	16.9784	0.1101	46.0	0.089	0	0.70

Figure A.29: Catalogue for Pavo p2p0

82	319.0628335	-67.6650062	18.3345	0.0406	17.6536	0.0399	17.5739	0.1177	-80.7	0.091	0	0.89
83	319.1943828	-67.6659193	18.7054	0.0734	18.2389	0.0885	18.1711	0.2665	35.3	0.246	0	0.56
84	319.1630993	-67.6664915	19.1882	0.0752	19.0487	0.1219	18.5720	0.2518	-87.9	0.214	0	0.58
86	318.9146000	-67.6680409	19.4886	0.1189	19.0704	0.1503	18.3922	0.2584	-41.8	0.136	0	0.51
87	319.2352080	-67.6596890	18.8642	0.0735	18.5193	0.0990	17.5979	0.1359	36.3	0.435	0	0.49
88	319.1571915	-67.6685823	17.2760	0.0301	16.6834	0.0322	16.2982	0.0722	-15.3	0.208	0	0.02
90	319.1451793	-67.6683638	19.2015	0.0865	19.2572	0.1683	18.9474	0.4060	-79.1	0.034	0	0.52
92	319.0948230	-67.6696054	18.7182	0.0602	18.7386	0.1129	18.7345	0.3605	-37.8	0.163	0	0.60
95	319.0117752	-67.6721645	18.8077	0.0513	18.3672	0.0626	18.2661	0.1817	-20.3	0.084	0	0.66
96	319.0729233	-67.6732219	17.9531	0.0539	17.4063	0.0605	17.0445	0.1390	-2.4	0.250	0	0.04
98	318.9166961	-67.6748794	18.8218	0.0498	18.2275	0.0529	17.9679	0.1324	54.0	0.156	0	0.71
100	319.2348533	-67.6752404	17.9920	0.0482	17.1373	0.0407	16.9170	0.1062	-19.0	0.074	0	0.89
103	319.0163363	-67.6771073	18.2573	0.0451	17.7567	0.0524	17.7985	0.1737	51.7	0.010	0	0.87
104	319.1098863	-67.6766625	18.9081	0.0780	17.9781	0.0616	17.9968	0.2003	-44.0	0.140	0	0.50
106	319.2273132	-67.6769619	17.6364	0.0389	16.9824	0.0394	16.4046	0.0741	-35.5	0.333	0	0.14
108	319.2118790	-67.6793315	17.4894	0.0349	16.7994	0.0342	16.6386	0.0943	71.1	0.309	0	0.06
114	318.9151447	-67.6848163	19.2040	0.0798	18.3635	0.0683	18.6267	0.2774	-44.5	0.123	0	0.53
116	319.1033881	-67.6859680	17.6398	0.0428	17.3520	0.0608	17.2145	0.1717	-62.9	0.130	0	0.01
119	319.1640868	-67.6868344	18.4709	0.0651	18.0324	0.0806	17.0198	0.1018	73.1	0.104	0	0.64
120	318.9426190	-67.6874389	18.9350	0.0691	18.3598	0.0752	18.0802	0.1859	2.8	0.128	0	0.71
122	319.0025884	-67.6880242	19.0781	0.0865	18.3549	0.0825	17.9779	0.1867	41.6	0.119	0	0.52
123	319.0770664	-67.6887951	18.1680	0.0490	17.7254	0.0602	18.0075	0.2496	86.9	0.083	0	0.80
124	319.2284722	-67.6886354	18.7553	0.0697	18.0762	0.0692	17.4260	0.1217	-83.6	0.482	0	0.57
126	319.0181849	-67.6902626	18.7124	0.0611	18.9205	0.1362	18.7883	0.3868	76.4	0.156	0	0.63
127	319.0623777	-67.6905919	18.7572	0.0713	17.7340	0.0517	17.0087	0.0848	-85.6	0.072	0	0.54
129	319.0148124	-67.6918942	19.0931	0.0595	18.6338	0.0714	18.2677	0.1626	70.3	0.175	0	0.52
130	319.0105654	-67.6929053	18.7876	0.0752	18.4308	0.1003	17.9351	0.2039	13.2	0.016	0	0.83
134	319.0131233	-67.6981370	15.7966	0.0107	15.2696	0.0119	15.1397	0.0336	53.2	0.375	3	0.39
135	318.9283033	-67.6958736	19.1124	0.0801	18.7403	0.1052	18.8888	0.3863	40.8	0.097	0	0.67
136	318.9222634	-67.6972835	15.7668	0.0079	15.0630	0.0074	14.5586	0.0145	78.8	0.428	0	0.03
140	319.1237134	-67.6974329	18.3935	0.0500	18.1530	0.0738	17.8643	0.1810	-25.2	0.101	0	0.75
141	319.0250857	-67.6982353	16.3057	0.0143	15.4645	0.0121	14.9861	0.0246	31.5	0.412	0	0.06
147	319.1852351	-67.6995067	19.1557	0.0901	18.2143	0.0704	17.5537	0.1226	12.4	0.144	0	0.50
148	319.1291595	-67.7002368	18.7253	0.0471	18.0853	0.0479	18.1137	0.1561	-42.7	0.024	0	0.63
149	319.1778409	-67.7002640	19.2177	0.0899	18.6519	0.0990	17.8693	0.1544	1.0	0.197	0	0.49
150	318.9668283	-67.7011566	18.8033	0.0683	18.0180	0.0614	17.2660	0.0984	50.7	0.112	0	0.75
152	319.1160876	-67.7022423	19.1462	0.0775	18.2023	0.0603	17.6080	0.1115	-14.3	0.200	0	0.48
154	319.1821954	-67.7045162	18.9255	0.0829	18.3484	0.0904	17.9815	0.2067	18.5	0.514	0	0.31
155	318.9065584	-67.7056366	18.1059	0.0339	17.6585	0.0410	17.7445	0.1409	84.1	0.140	0	0.81
157	318.9309349	-67.7065201	18.6024	0.0692	18.0176	0.0749	17.7754	0.1919	67.1	0.454	0	0.40
158	318.9580767	-67.7070436	17.3996	0.0276	16.8504	0.0306	17.1818	0.1321	-74.4	0.437	0	0.26
161	318.8947564	-67.7074804	16.6386	0.0124	16.0948	0.0134	16.1677	0.0446	-82.8	0.156	16	0.63
162	319.1751992	-67.7065820	18.9070	0.0832	18.5944	0.1157	19.2281	0.6647	62.7	0.068	0	0.50
171	319.0417396	-67.7110795	19.2693	0.0985	18.9115	0.1314	19.4596	0.6975	-45.7	0.140	0	0.46
172	318.9212794	-67.7121775	16.6544	0.0172	16.0233	0.0176	15.3918	0.0312	-64.7	0.091	0	0.02
174	319.0251023	-67.7158365	18.4738	0.0619	17.9397	0.0702	17.2877	0.1234	82.5	0.064	0	0.47
175	319.2004909	-67.7162555	18.6742	0.0569	18.3755	0.0796	17.6654	0.1325	78.6	0.169	0	0.54
176	318.8976853	-67.7171795	19.3523	0.0835	18.4732	0.0689	18.5459	0.2350	-13.4	0.277	0	0.50
177	319.2382699	-67.7165006	18.6778	0.0635	18.3743	0.0888	18.3149	0.2692	11.8	0.299	16	0.36

Figure A.30: Catalogue for Pavo p2p0 (cont.)

178	319.2297917	-67.7171603	17.9624	0.0405	17.3502	0.0426	16.9390	0.0931	-60.6	0.179	0	0.10
180	319.2362452	-67.7174689	18.0272	0.0442	17.9778	0.0777	17.8686	0.2251	-86.1	0.144	0	0.85
183	318.9134283	-67.7188480	18.3717	0.0401	17.7516	0.0415	17.4495	0.0999	-77.3	0.123	0	0.85
184	318.9850306	-67.7185579	18.8995	0.0811	18.6455	0.1190	18.1465	0.2412	42.4	0.007	0	0.54
186	319.2045573	-67.7206133	18.7685	0.0621	18.1839	0.0670	17.8666	0.1600	56.9	0.052	0	0.58
187	318.9918143	-67.7214394	19.1379	0.0773	18.7260	0.0978	18.1295	0.1808	59.2	0.077	0	0.56
188	319.2392931	-67.7213390	18.7730	0.0608	17.7548	0.0442	17.6554	0.1284	-75.9	0.205	24	0.50
189	319.1551467	-67.7223432	18.9940	0.0858	18.2399	0.0797	17.5374	0.1336	74.2	0.211	0	0.36
192	318.9933312	-67.7243822	19.2786	0.0986	18.9994	0.1414	18.0392	0.1875	-11.2	0.011	0	0.49
193	319.2393451	-67.7241805	18.4120	0.0507	17.9542	0.0613	18.0100	0.2063	78.3	0.365	24	0.63
194	318.9869761	-67.7250651	18.8168	0.0725	18.2043	0.0764	17.4931	0.1272	-62.6	0.177	0	0.63
197	319.0357149	-67.7258831	18.7759	0.0662	18.4326	0.0892	17.9023	0.1753	37.2	0.058	0	0.53
198	319.0058687	-67.7262705	18.3049	0.0583	17.6162	0.0574	17.4947	0.1643	12.1	0.070	0	0.11
202	318.8938743	-67.7273750	18.5727	0.0497	18.1796	0.0636	17.8285	0.1469	-89.0	0.205	16	0.58
203	319.1912283	-67.7281088	18.1424	0.0401	17.7802	0.0528	17.7126	0.1583	-66.0	0.067	0	0.82
204	319.0630392	-67.7284747	19.0853	0.0724	18.5295	0.0802	18.7629	0.3175	26.2	0.091	0	0.70
207	318.9904120	-67.7295035	18.2666	0.0579	18.1504	0.0962	17.7172	0.2071	-33.6	0.457	0	0.53
208	319.0770240	-67.7292729	18.8955	0.0800	18.1018	0.0716	17.8215	0.1770	22.5	0.116	0	0.58
210	319.0445919	-67.7314734	19.2072	0.0914	19.1384	0.1588	19.6338	0.8039	-42.1	0.152	0	0.49
211	318.9292077	-67.7329476	16.9937	0.0247	16.3781	0.0258	15.6047	0.0405	-46.1	0.127	0	0.21
212	319.1611008	-67.7333023	18.0626	0.0469	17.4841	0.0510	16.9765	0.1022	56.1	0.043	0	0.24
215	318.9342484	-67.7353281	18.2295	0.0648	18.0186	0.0990	17.4521	0.1887	-50.7	0.118	0	0.10
219	319.1032909	-67.6219916	15.8900	0.0085	15.4568	0.0101	15.2511	0.0262	56.9	0.304	0	0.03
222	318.9836987	-67.7412345	18.9546	0.0837	18.3716	0.0909	17.6264	0.1467	-11.6	0.296	0	0.46
223	318.9348439	-67.7422712	17.9627	0.0533	17.2831	0.0529	16.3260	0.0703	-10.0	0.163	0	0.31
224	319.0038083	-67.7425139	18.7195	0.0731	18.2143	0.0852	18.0283	0.2299	43.0	0.144	0	0.66
226	319.1345987	-67.7434801	17.1602	0.0280	16.5101	0.0284	15.9456	0.0540	-25.8	0.050	0	0.30
227	319.2270692	-67.6200473	18.3364	0.0568	18.7981	0.1603	17.9682	0.2398	44.4	0.361	1	0.59
230	318.9490839	-67.7465796	19.5153	0.0777	18.6594	0.0653	18.3792	0.1604	-88.9	0.248	0	0.49
232	319.1422916	-67.6300853	18.5576	0.0530	18.1381	0.0663	18.0673	0.1986	-81.7	0.023	0	0.74
233	319.1073601	-67.6250004	18.4633	0.0625	17.4550	0.0459	16.7054	0.0737	86.2	0.122	0	0.63
234	318.9885078	-67.6261830	18.8513	0.0567	17.8825	0.0430	17.3856	0.0866	16.3	0.197	0	0.62
235	319.0885046	-67.6265764	19.3930	0.0611	18.8102	0.0653	19.1746	0.2894	89.6	0.154	0	0.49
236	319.1259642	-67.6277910	18.8848	0.0700	18.4927	0.0902	18.0294	0.1885	-11.2	0.206	0	0.59
237	319.0902453	-67.6291725	18.5431	0.0589	18.1538	0.0761	18.1115	0.2342	85.4	0.095	0	0.77
238	319.2341688	-67.6290322	18.8611	0.0613	18.3890	0.0732	18.1813	0.1931	53.2	0.065	0	0.59

Figure A.31: Catalogue for Pavo p2p0 (cont.)

6	319.2158984	-67.7488217	17.8189	0.0343	17.5457	0.0507	16.9949	0.1021	3.5	0.570	24	0.64
7	319.3685366	-67.7460250	17.9594	0.0465	17.2270	0.0456	16.7845	0.1015	-27.3	0.099	0	0.13
9	319.4829917	-67.7450733	18.7841	0.0598	18.6760	0.1033	18.7718	0.3778	-70.7	0.023	0	0.51
11	319.3768380	-67.6171037	17.8737	0.0315	17.9724	0.0650	98.9090	99.0000	8.4	0.248	24	0.70
12	319.5113885	-67.6168350	18.8335	0.0618	18.6149	0.0966	17.9992	0.1836	-25.4	0.342	16	0.54
13	319.4148841	-67.6172448	19.2685	0.0729	18.9984	0.1086	18.9033	0.3329	-73.6	0.132	17	0.56
18	319.4647490	-67.6289152	18.6362	0.0687	18.5371	0.1206	17.9636	0.2387	-55.8	0.185	0	0.25
21	319.3685044	-67.6333878	19.0322	0.0688	18.5573	0.0850	19.9377	1.0131	-53.8	0.025	0	0.61
22	319.2679006	-67.6337794	18.9275	0.0592	18.4536	0.0730	18.9831	0.3966	-0.1	0.411	0	0.20
23	319.3646324	-67.6339689	19.4210	0.0918	18.6655	0.0881	18.9559	0.3849	-41.8	0.121	0	0.56
25	319.4220354	-67.6379970	19.2829	0.0890	18.5158	0.0846	18.0988	0.1929	0.9	0.152	0	0.53
26	319.4282580	-67.6395976	16.3298	0.0123	15.6527	0.0124	15.2298	0.0277	81.2	0.151	0	0.03
27	319.2250108	-67.6397524	18.9473	0.0632	18.2648	0.0646	18.4782	0.2622	-44.9	0.205	0	0.73
33	319.4010501	-67.6434407	18.3315	0.0430	17.8726	0.0536	18.0800	0.2166	49.9	0.063	0	0.78
35	319.4797701	-67.6446239	18.4893	0.0595	18.3402	0.0994	19.3489	0.8437	52.8	0.031	0	0.60
36	319.2062114	-67.6450802	18.4377	0.0562	17.4483	0.0435	17.8577	0.2116	-47.8	0.284	0	0.55
41	319.5177876	-67.6522128	18.8123	0.0689	18.5314	0.1020	18.0346	0.2165	-63.5	0.100	0	0.77
42	319.4587007	-67.6525552	18.6740	0.0700	17.9745	0.0708	17.3454	0.1330	42.4	0.270	0	0.29
43	319.3711443	-67.6533206	18.5492	0.0687	17.8472	0.0694	17.4603	0.1629	80.2	0.018	0	0.60
44	319.4962129	-67.6534647	19.3431	0.0628	18.7769	0.0708	19.1665	0.3371	64.6	0.175	0	0.51
46	319.3383904	-67.6555020	19.4974	0.0960	18.9483	0.1113	18.8604	0.3438	-44.4	0.207	0	0.49
54	319.3883475	-67.6603240	18.9599	0.0761	18.8010	0.1261	18.3308	0.2744	-22.5	0.008	0	0.46
56	319.3780654	-67.6619181	18.8026	0.0679	17.9315	0.0586	17.7289	0.1625	2.3	0.141	0	0.64
57	319.3839708	-67.6641722	19.0136	0.0606	18.7253	0.0885	18.3861	0.2165	79.6	0.019	0	0.55
58	319.4498922	-67.6641871	18.5653	0.0580	18.0793	0.0711	18.8799	0.4972	21.4	0.063	0	0.70
59	319.2569210	-67.6647500	18.9190	0.0537	18.3897	0.0627	18.1811	0.1724	-64.7	0.062	0	0.62
61	319.4031444	-67.6670045	17.2915	0.0201	16.7902	0.0238	16.9585	0.0918	-83.8	0.235	0	0.87
64	319.4871619	-67.6687838	18.8489	0.0578	18.7199	0.0978	18.7285	0.3300	87.4	0.271	0	0.61
65	319.4684786	-67.6690652	19.3767	0.0911	18.6697	0.0914	18.0296	0.1698	-43.1	0.134	0	0.50
70	319.2345676	-67.6753337	18.3717	0.0513	17.5346	0.0456	17.4597	0.1420	-34.8	0.104	0	0.41
71	319.2269918	-67.6769543	17.8966	0.0339	17.2634	0.0361	17.0299	0.0970	-38.9	0.252	0	0.01
73	319.2775843	-67.6774113	18.3603	0.0451	17.8394	0.0533	18.0629	0.2184	-15.1	0.072	0	0.67
74	319.4956647	-67.6778358	18.9147	0.0711	18.3553	0.0816	19.9695	1.2057	-0.1	0.070	0	0.59
75	319.2115615	-67.6793876	17.9344	0.0427	17.1048	0.0382	16.5012	0.0733	72.5	0.376	0	0.02
76	319.3732110	-67.6794061	18.6082	0.0662	18.3873	0.1038	18.0232	0.2490	-38.0	0.088	0	0.56
80	319.2672363	-67.6810410	18.9403	0.0509	18.3681	0.0571	18.6349	0.2425	-87.2	0.144	0	0.78
81	319.4978117	-67.6804021	19.2951	0.0819	19.1029	0.1315	18.8052	0.3351	-1.1	0.153	0	0.51
82	319.4505786	-67.6842910	17.5248	0.0252	17.2302	0.0362	17.2576	0.1237	-78.4	0.446	0	0.84
83	319.3241522	-67.6842953	16.7969	0.0146	16.3046	0.0173	16.3468	0.0592	46.8	0.385	0	0.44
85	319.5337818	-67.6845789	19.2942	0.0860	18.8249	0.1072	18.4699	0.2590	-40.7	0.144	0	0.51
86	319.3304280	-67.6859556	17.9383	0.0348	17.2908	0.0366	16.7590	0.0748	64.4	0.220	0	0.05
88	319.4330856	-67.6857996	18.9393	0.0660	18.3162	0.0714	18.0886	0.1934	12.8	0.164	0	0.81
89	319.4075312	-67.6876982	19.2702	0.0823	18.8488	0.1072	18.7479	0.3271	-39.3	0.083	0	0.53
93	319.3853720	-67.6909521	16.9588	0.0214	16.5193	0.0271	16.1246	0.0628	-58.4	0.025	0	0.01
94	319.3551401	-67.6910378	18.8382	0.0744	18.3477	0.0912	18.7628	0.4475	86.3	0.184	0	0.65
95	319.3463487	-67.6924011	19.4494	0.0868	19.0782	0.1182	19.3902	0.5271	-88.9	0.152	0	0.55
97	319.4151471	-67.6931650	17.9813	0.0546	17.4942	0.0672	16.9713	0.1393	30.0	0.058	0	0.00
99	319.3710742	-67.6959709	19.3263	0.0827	18.9831	0.1155	19.2740	0.5055	43.0	0.033	0	0.49
100	319.3469381	-67.6962963	18.9083	0.0523	18.5495	0.0712	19.1136	0.3991	-87.9	0.108	0	0.63

Figure A.32: Catalogue for Pavo p2p0

102	319.5425392	-67.6981543	17.4843	0.0321	17.1240	0.0440	17.0083	0.1323	-89.3	0.267	19	0.20
103	319.4487742	-67.6970643	19.0738	0.0606	18.6176	0.0758	19.0642	0.3813	68.6	0.028	0	0.61
108	319.3966688	-67.7009200	19.5165	0.0752	19.0209	0.0908	18.8680	0.2633	45.5	0.147	0	0.55
109	319.2424252	-67.7023661	17.7547	0.0306	17.2128	0.0354	17.2579	0.1227	-88.6	0.125	0	0.70
110	319.3585015	-67.7017463	19.2398	0.0889	18.8033	0.1144	18.3788	0.2593	-16.0	0.117	0	0.61
113	319.5309253	-67.7039767	17.9812	0.0347	17.1814	0.0317	17.0655	0.0947	-73.2	0.075	0	0.16
114	319.2907220	-67.7051407	19.3224	0.0908	18.8579	0.1138	18.6651	0.3194	-43.8	0.252	0	0.52
116	319.3888276	-67.7071172	19.0620	0.0786	18.2728	0.0732	18.8492	0.4158	-88.8	0.179	0	0.58
120	319.5197145	-67.7079893	19.2282	0.0892	18.9583	0.1337	18.9967	0.4646	-89.7	0.269	0	0.48
121	319.5228550	-67.7079792	19.3478	0.0944	18.7001	0.1001	18.4860	0.2754	-89.6	0.261	0	0.49
122	319.2328068	-67.7091674	18.4722	0.0461	17.7023	0.0434	18.2306	0.2346	-2.4	0.006	2	0.87
124	319.4594456	-67.7090675	18.3430	0.0631	17.7085	0.0678	18.7402	0.5873	55.8	0.475	0	0.22
125	319.3184360	-67.7104030	19.2043	0.0876	18.6598	0.1021	17.4647	0.1140	64.8	0.218	0	0.64
126	319.4761152	-67.7108389	19.3428	0.0910	18.4744	0.0788	17.7632	0.1371	81.0	0.386	0	0.48
127	319.5299799	-67.7111641	18.8068	0.0727	18.0360	0.0689	18.7478	0.4436	-82.9	0.166	0	0.69
129	319.3694918	-67.7121114	17.7459	0.0367	16.9453	0.0337	16.5797	0.0804	-67.0	0.042	0	0.13
130	319.2732175	-67.7134499	18.8877	0.0687	17.9903	0.0579	17.5253	0.1260	53.2	0.040	0	0.42
131	319.3145787	-67.7137125	18.6464	0.0623	17.8944	0.0599	17.2852	0.1144	-41.5	0.136	0	0.55
132	319.3629158	-67.7148196	19.5611	0.0986	19.1431	0.1289	18.8424	0.3276	-18.6	0.132	0	0.49
133	319.2424877	-67.7159834	17.7626	0.0396	16.9186	0.0350	16.3068	0.0666	47.4	0.029	0	0.13
134	319.2771408	-67.7156622	19.4121	0.0853	19.0164	0.1136	19.0257	0.3834	-14.1	0.274	0	0.49
135	319.2293258	-67.7171730	18.2103	0.0533	17.4983	0.0532	16.8978	0.1026	-64.7	0.184	0	0.02
136	319.2357269	-67.7174983	18.9628	0.0798	18.4496	0.0957	18.4109	0.3095	-4.1	0.140	0	0.71
137	319.3448437	-67.7173976	19.0273	0.0741	18.4266	0.0819	17.7858	0.1520	-42.5	0.135	0	0.60
140	319.2039514	-67.7206615	18.8983	0.0715	18.1723	0.0705	19.5048	0.8036	44.5	0.100	16	0.62
142	319.2532187	-67.7211698	18.6685	0.0750	17.8885	0.0706	17.8326	0.2246	-37.5	0.240	0	0.00
143	319.2421215	-67.7238709	14.9786	0.0055	14.2799	0.0054	14.0071	0.0136	-77.4	0.469	0	0.03
145	319.3618090	-67.7216721	18.8557	0.0764	17.9566	0.0644	18.1741	0.2630	-83.9	0.103	0	0.66
146	319.4030556	-67.7226487	18.4473	0.0398	17.9185	0.0463	17.7270	0.1292	86.2	0.058	0	0.81
147	319.2767625	-67.7229025	18.8472	0.0709	18.6279	0.1111	18.5869	0.3588	19.5	0.083	0	0.70
153	319.4394654	-67.7266020	19.0395	0.0896	18.0032	0.0667	17.7459	0.1761	-46.3	0.140	0	0.12
154	319.3570333	-67.7271415	18.2345	0.0562	17.7577	0.0697	18.4474	0.4403	-56.7	0.164	3	0.71
155	319.3584595	-67.7282728	17.4527	0.0307	16.5854	0.0265	16.3957	0.0742	-27.1	0.028	2	0.26
159	319.3839569	-67.7282707	19.6003	0.0817	18.9177	0.0834	18.6387	0.2152	0.2	0.187	0	0.50
160	319.4934756	-67.7285901	18.7754	0.0649	18.1519	0.0703	18.6464	0.3702	-44.5	0.073	0	0.79
161	319.3070579	-67.7295136	18.1598	0.0503	17.8846	0.0749	17.4156	0.1630	55.9	0.040	0	0.66
164	319.3703725	-67.7310019	19.2054	0.0936	18.3302	0.0807	18.2906	0.2604	89.4	0.266	0	0.23
165	319.4212076	-67.7308979	19.2272	0.0907	19.3042	0.1870	98.9090	99.0000	12.2	0.073	0	0.61
167	319.5122253	-67.7316830	18.8279	0.0563	18.4075	0.0729	98.9090	99.0000	-47.7	0.114	0	0.74
168	319.3645235	-67.7333655	17.0131	0.0197	16.2839	0.0190	15.8294	0.0416	81.1	0.094	0	0.12
169	319.4168262	-67.7327176	19.0206	0.0811	18.1668	0.0712	17.7904	0.1685	75.2	0.436	0	0.64
170	319.3006045	-67.7336736	18.3938	0.0591	18.0352	0.0816	17.5525	0.1755	-21.8	0.403	0	0.00
172	319.2431764	-67.7343248	18.4691	0.0469	18.1090	0.0641	17.9557	0.1859	-64.1	0.054	0	0.87
177	319.2716389	-67.7389156	18.9943	0.0838	17.8138	0.0547	17.3596	0.1203	44.5	0.410	0	0.59
178	319.3324161	-67.7395756	18.9969	0.0706	18.4561	0.0823	18.4472	0.2731	43.3	0.094	0	0.70
179	319.3567964	-67.7395477	19.0561	0.0832	18.4136	0.0887	18.5024	0.3223	28.7	0.307	0	0.57
182	319.2872747	-67.7413786	18.1757	0.0497	17.5076	0.0516	16.8747	0.0964	-85.0	0.101	0	0.30
185	319.3946400	-67.6234476	19.0138	0.0544	18.7200	0.0786	98.9090	99.0000	-56.4	0.060	0	0.55
187	319.3951510	-67.7434788	18.8495	0.0756	17.9191	0.0619	18.0272	0.2286	12.1	0.371	0	0.03

Figure A.33: Catalogue for Pavo p2p0 (cont.)

189	319.3744978	-67.6269543	18.7136	0.0584	18.3918	0.0830	17.5855	0.1323	23.6	0.054	0	0.34
191	319.5248542	-67.6235164	17.2964	0.0258	16.5051	0.0238	16.2719	0.0638	-51.7	0.127	0	0.45

Figure A.34: Catalogue for Pavo p2p0 (cont.)

4	318.4138992	-67.6186019	19.6896	0.0765	19.2759	0.1016	18.3023	0.1180	10.4	0.330	24	0.75
5	318.4609532	-67.6185565	19.9788	0.0706	19.6492	0.0999	98.9083	99.0000	16.6	0.271	24	0.62
6	318.5940737	-67.6201551	19.3066	0.0981	19.5352	0.2381	17.7742	0.1345	-88.2	0.419	0	0.05
7	318.5956002	-67.6205451	19.5964	0.1023	19.5800	0.1977	17.9309	0.1238	56.4	0.238	0	0.17
8	318.5841283	-67.6235833	19.6769	0.1032	18.8231	0.0927	18.3395	0.1688	-30.9	0.119	0	0.03
10	318.4720528	-67.6264341	19.0831	0.0614	18.8335	0.0949	18.4631	0.1919	66.6	0.150	0	0.43
14	318.3728079	-67.6300685	19.4368	0.0693	18.8294	0.0772	18.1779	0.1203	12.4	0.206	0	0.00
19	318.5598353	-67.6332919	19.4435	0.0959	19.3047	0.1658	18.1384	0.1617	-71.8	0.302	0	0.01
20	318.3315342	-67.6339184	19.3079	0.0842	18.8354	0.1070	19.4847	0.5533	42.6	0.136	0	0.40
21	318.4345405	-67.6342813	19.5205	0.0676	18.5618	0.0546	17.8786	0.0824	-68.9	0.298	0	0.03
27	318.4672150	-67.6359988	19.5945	0.0803	18.6674	0.0671	18.6651	0.1893	0.1	0.202	0	0.36
29	318.5824887	-67.6371654	19.9942	0.1032	19.2372	0.1009	18.1913	0.1096	89.1	0.185	0	0.31
32	318.4547850	-67.6387616	19.4406	0.0586	18.9966	0.0751	18.4965	0.1341	2.6	0.267	0	0.89
33	318.5253715	-67.6388839	18.9006	0.0573	18.3513	0.0675	18.4396	0.2076	52.3	0.051	0	0.57
35	318.5682462	-67.6391490	19.7728	0.1087	19.0420	0.1092	19.3984	0.4308	-53.0	0.177	0	0.20
36	318.5334482	-67.6394796	19.6514	0.1052	19.0383	0.1177	17.7012	0.0981	-46.8	0.139	0	0.01
39	318.5650749	-67.6418972	19.6178	0.1043	19.2472	0.1457	19.2426	0.4132	-31.1	0.256	0	0.54
40	318.4762027	-67.6429914	16.9351	0.0155	16.2260	0.0155	15.4726	0.0218	-62.0	0.115	0	0.03
43	318.5579661	-67.6439425	19.5486	0.0836	18.8857	0.0890	17.8851	0.1009	18.0	0.196	0	0.18
46	318.4143244	-67.6453402	19.4365	0.0555	19.0476	0.0745	19.1318	0.2271	-87.7	0.149	0	0.77
48	318.4406488	-67.6455591	19.5691	0.0650	19.1626	0.0864	19.2458	0.2638	89.7	0.145	0	0.40
50	318.3821385	-67.6473940	17.9071	0.0347	17.2124	0.0358	16.3724	0.0469	-15.2	0.085	0	0.07
52	318.4017989	-67.6478595	20.0631	0.0851	19.3384	0.0850	19.6667	0.3241	1.5	0.164	0	0.68
54	318.3868930	-67.6492590	17.8580	0.0297	17.0902	0.0285	16.5052	0.0470	49.2	0.130	0	0.04
60	318.3870385	-67.6520625	18.7840	0.0643	18.3175	0.0821	17.8899	0.1577	33.1	0.192	0	0.09
63	318.4059423	-67.6535149	17.5961	0.0170	17.1261	0.0204	16.8180	0.0428	16.1	0.261	0	0.28
65	318.5798222	-67.6542112	19.5129	0.0936	18.5933	0.0791	17.8040	0.1088	-57.4	0.283	0	0.00
67	318.3862839	-67.6554288	18.3018	0.0386	17.5822	0.0387	17.0758	0.0687	25.3	0.407	0	0.01
68	318.5632996	-67.6559339	19.5688	0.0688	18.6658	0.0584	17.6200	0.0634	-65.3	0.241	0	0.05
69	318.4676406	-67.6567895	19.4599	0.0635	18.7566	0.0646	18.7941	0.1887	-60.2	0.071	0	0.88
70	318.3584332	-67.6572255	19.7631	0.0832	19.5894	0.1378	19.1961	0.2729	2.9	0.162	0	0.76
71	318.3286933	-67.6578265	19.4283	0.0668	19.2497	0.1099	20.0490	0.6505	-22.0	0.247	0	0.74
72	318.5824861	-67.6576343	18.0732	0.0319	17.3827	0.0328	16.8280	0.0556	-42.7	0.114	0	0.02
73	318.5056558	-67.6576138	19.8906	0.0801	19.1793	0.0809	18.9114	0.1788	68.7	0.104	0	0.40
75	318.4906611	-67.6599663	19.8168	0.0695	19.1502	0.0727	18.9106	0.1646	-39.3	0.128	0	0.67
78	318.5822526	-67.6601508	19.5991	0.0640	18.9501	0.0682	19.0137	0.2038	22.5	0.012	0	0.57
79	318.3641230	-67.6616328	19.5373	0.0703	19.0054	0.0838	18.6032	0.1641	10.4	0.196	0	0.64
82	318.5227376	-67.6623386	19.3116	0.0743	18.7523	0.0869	18.3690	0.1734	68.5	0.136	0	0.00
83	318.4478029	-67.6644658	19.8938	0.0733	19.3009	0.0821	19.5884	0.3017	-69.9	0.136	0	0.39
85	318.4623911	-67.6652254	19.5660	0.0907	19.3589	0.1467	19.2545	0.3794	88.7	0.148	0	0.82
89	318.5064168	-67.6667666	19.6842	0.0934	19.0977	0.1067	18.7103	0.2124	89.3	0.145	0	0.37
90	318.5665376	-67.6669824	18.9916	0.0445	18.4645	0.0526	18.1914	0.1154	8.1	0.069	0	0.78
91	318.4720838	-67.6675342	19.0365	0.0732	18.7248	0.1078	18.3412	0.2156	26.5	0.263	0	0.00
92	318.2833949	-67.6681366	19.8161	0.0931	19.4952	0.1354	18.7704	0.1977	84.6	0.145	0	0.76
93	318.4292993	-67.6688734	19.7216	0.1106	19.9425	0.2660	19.9086	0.7353	62.7	0.342	0	0.55
96	318.5226538	-67.6706499	16.2477	0.0104	15.6035	0.0109	15.2125	0.0213	52.7	0.172	0	0.02
97	318.4505621	-67.6700159	19.5119	0.0599	18.8683	0.0640	18.6173	0.1434	68.6	0.106	0	0.88
100	318.3222805	-67.6721470	19.3321	0.0656	18.5279	0.0611	17.9161	0.0987	75.4	0.413	0	0.00
101	318.3416226	-67.6721957	19.5744	0.0672	19.0764	0.0824	18.7527	0.1731	0.0	0.106	0	0.54

Figure A.35: Catalogue for Pavo m1p1

102	318.5155661	-67.6725971	19.1536	0.0493	18.5080	0.0525	17.9662	0.0901	-2.0	0.311	0	0.52
103	318.3728082	-67.6731174	19.0955	0.0522	18.3929	0.0530	17.7265	0.0813	24.8	0.037	0	0.09
104	318.4468258	-67.6732709	18.4979	0.0373	17.7614	0.0367	17.1715	0.0602	-87.9	0.370	0	0.01
105	318.4610915	-67.6738851	19.8168	0.0895	19.1364	0.0936	19.3129	0.3121	1.5	0.119	0	0.27
107	318.5152110	-67.6744908	19.6341	0.0821	19.1145	0.0993	18.2736	0.1303	-16.7	0.189	0	0.19
109	318.4050313	-67.6762109	19.5575	0.0953	19.4974	0.1768	19.2560	0.4034	-27.0	0.195	0	0.72
110	318.3929096	-67.6767672	19.1818	0.0493	18.5828	0.0547	18.2821	0.1170	12.0	0.108	0	0.86
112	318.5526872	-67.6767022	19.4324	0.1013	18.9930	0.1331	18.2878	0.1982	-34.4	0.210	0	0.29
114	318.4886518	-67.6776505	18.9861	0.0459	18.3888	0.0510	17.7601	0.0809	21.1	0.132	0	0.32
117	318.3004008	-67.6791844	19.9449	0.0953	19.8823	0.1752	18.9829	0.2181	1.1	0.283	0	0.76
119	318.3929664	-67.6794367	18.9900	0.0730	18.1462	0.0661	17.0788	0.0705	-15.9	0.091	0	0.00
120	318.5386805	-67.6803426	17.8259	0.0288	16.8857	0.0236	16.2028	0.0356	62.4	0.474	0	0.01
122	318.4146750	-67.6805146	19.9762	0.0971	19.7701	0.1565	19.6064	0.3829	-39.6	0.311	0	0.48
123	318.4883019	-67.6804212	19.5512	0.0756	19.1573	0.1025	18.6602	0.1844	22.0	0.095	0	0.50
127	318.5939533	-67.6818282	19.6887	0.1167	19.3358	0.1661	18.7164	0.2677	68.4	0.143	0	0.66
131	318.3395288	-67.6843365	19.6012	0.1103	18.5766	0.0848	18.2058	0.1714	-89.4	0.350	0	0.00
142	318.3777321	-67.6889954	19.4326	0.0855	19.3700	0.1580	18.8072	0.2683	17.2	0.239	0	0.00
149	318.3374264	-67.6915037	19.4507	0.0614	19.2099	0.0948	18.8929	0.2008	20.0	0.213	0	0.66
150	318.4446464	-67.6920649	19.3619	0.0788	18.8437	0.0958	17.9078	0.1153	76.3	0.199	0	0.01
153	318.4386452	-67.6945505	18.7911	0.0465	18.1147	0.0484	17.2230	0.0605	69.3	0.271	0	0.01
160	318.3538991	-67.6969853	19.3813	0.0779	18.9796	0.1053	18.7772	0.2485	-26.0	0.017	0	0.58
164	318.3433510	-67.6992924	19.3775	0.0853	19.8886	0.2670	19.3248	0.4534	-75.0	0.117	0	0.71
166	318.3863395	-67.6992093	19.7407	0.0659	19.3576	0.0890	18.8804	0.1625	14.0	0.139	0	0.55
168	318.2910538	-67.7005706	19.5281	0.0639	18.6399	0.0549	18.5074	0.1369	5.3	0.024	0	0.71
173	318.4427258	-67.7037519	17.8220	0.0300	16.9705	0.0267	16.5110	0.0495	35.2	0.199	0	0.02
175	318.4579855	-67.7051660	19.2884	0.0734	18.9030	0.1007	19.1990	0.3755	1.5	0.157	0	0.89
176	318.4380332	-67.7055222	18.9092	0.0468	18.4327	0.0583	18.2869	0.1440	34.5	0.084	0	0.67
177	318.2874784	-67.7063386	19.4647	0.0848	19.3593	0.1506	18.3188	0.1648	-42.7	0.231	0	0.01
179	318.4817993	-67.7083739	19.7553	0.0797	19.0472	0.0810	19.7431	0.4341	-37.5	0.091	0	0.84
182	318.4340147	-67.7094840	18.7883	0.0418	18.0201	0.0399	17.6920	0.0830	-60.7	0.286	0	0.26
183	318.4564941	-67.7101549	19.3816	0.0791	18.5410	0.0717	17.5128	0.0792	-73.0	0.406	0	0.01
186	318.3830882	-67.7116627	18.8135	0.0592	17.8059	0.0460	17.0007	0.0623	38.1	0.222	0	0.03
187	318.5805381	-67.7126301	19.5430	0.0635	19.3845	0.1057	18.7442	0.1665	-34.1	0.114	0	0.41
191	318.4366376	-67.7144975	18.4697	0.0421	17.8028	0.0443	17.2587	0.0761	-72.4	0.121	0	0.02
194	318.4536575	-67.7160432	19.7042	0.0910	19.0336	0.0962	18.5209	0.1706	3.9	0.094	0	0.80
195	318.4633801	-67.7162179	19.2458	0.0608	18.7356	0.0738	18.8014	0.2221	50.7	0.166	0	0.76
198	318.2881270	-67.7170431	19.0236	0.0532	19.0820	0.1084	19.6624	0.5251	-31.9	0.014	0	0.63
201	318.3753620	-67.7205296	18.2474	0.0491	17.2885	0.0400	16.4624	0.0532	25.9	0.487	0	0.00
202	318.4069364	-67.7209212	19.7422	0.0984	19.8424	0.2110	19.5683	0.4672	1.0	0.201	0	0.69
206	318.3908656	-67.7234677	19.9474	0.0900	19.9209	0.1706	19.1602	0.2412	-1.3	0.246	0	0.70
209	318.4724905	-67.7263346	19.9028	0.1124	19.5116	0.1539	19.6466	0.4958	27.2	0.354	0	0.02
212	318.3501346	-67.7278754	18.9464	0.0538	18.1633	0.0511	17.5216	0.0802	67.7	0.021	0	0.19
213	318.4326416	-67.7280173	20.0063	0.0919	19.1798	0.0839	20.3375	0.6875	69.8	0.111	0	0.47
214	318.6105323	-67.7276573	18.3292	0.0494	17.8111	0.0600	17.5139	0.1298	-80.5	0.159	0	0.22
219	318.2820688	-67.7304783	18.7857	0.0445	18.0553	0.0441	17.3299	0.0640	73.2	0.389	0	0.02
221	318.4432285	-67.7305108	19.9846	0.0794	19.6530	0.1130	19.3065	0.2329	-10.0	0.119	0	0.70
223	318.2845120	-67.7322033	19.3757	0.0855	18.7460	0.0941	17.7991	0.1121	0.5	0.201	0	0.03
224	318.4363504	-67.7322067	18.4975	0.0402	17.9955	0.0490	17.6204	0.0983	-35.3	0.072	0	0.79
225	318.3496620	-67.7323720	19.1394	0.0517	18.2297	0.0436	17.5421	0.0653	25.1	0.027	0	0.13

Figure A.36: Catalogue for Pavo m1p1 (cont.)

227	318.5912904	-67.7331509	19.8664	0.0951	19.0361	0.0869	18.3481	0.1310	28.6	0.005	0	0.60
228	318.3455311	-67.7348205	18.6053	0.0636	18.0129	0.0725	17.3298	0.1100	67.9	0.188	0	0.00
229	318.5228836	-67.7349860	16.8976	0.0156	16.1081	0.0145	15.4392	0.0220	-79.0	0.223	0	0.03
230	318.3305718	-67.7352065	17.8432	0.0310	17.0070	0.0280	16.2638	0.0400	-42.4	0.051	0	0.01
232	318.4814854	-67.7347638	20.0176	0.0794	19.3561	0.0837	18.9592	0.1641	-43.3	0.047	0	0.54
235	318.4454967	-67.7372576	18.9315	0.0598	18.1420	0.0566	17.5365	0.0921	87.1	0.103	0	0.20
236	318.3232028	-67.7375235	19.4560	0.0738	18.5677	0.0638	18.1458	0.1226	-56.8	0.238	0	0.22
238	318.3314790	-67.7386031	19.7814	0.1135	19.6875	0.2044	18.6377	0.2220	-54.5	0.173	0	0.47
241	318.5988741	-67.7394309	16.2101	0.0114	15.6079	0.0126	15.1784	0.0238	-46.0	0.401	2	0.01
242	318.5947878	-67.7387192	19.1358	0.0700	17.8803	0.0435	17.3250	0.0738	-25.2	0.068	3	0.06
243	318.3986087	-67.7392077	19.4729	0.0740	18.7954	0.0775	18.7016	0.2013	-28.7	0.188	0	0.68
244	318.5186874	-67.7393137	18.6801	0.0378	17.8561	0.0342	17.0650	0.0466	9.3	0.312	0	0.07
245	318.3008228	-67.7405420	19.4418	0.0900	19.2308	0.1454	19.1338	0.3787	62.9	0.181	0	0.71
246	318.2959988	-67.7413830	19.7777	0.0906	18.9478	0.0828	18.1187	0.1097	18.1	0.095	0	0.44
247	318.5386587	-67.7410536	19.2795	0.0577	19.0395	0.0893	18.3747	0.1376	-32.9	0.142	0	0.25
248	318.4947766	-67.7414183	19.8356	0.0983	19.3281	0.1207	19.6787	0.4734	-75.1	0.254	0	0.52
249	318.5090253	-67.7416443	19.7201	0.0735	18.8953	0.0671	18.2300	0.1029	-42.1	0.127	0	0.03
251	318.3216524	-67.7423190	19.8737	0.0779	19.3512	0.0934	19.2927	0.2504	-74.1	0.102	0	0.80
252	318.4091258	-67.7426506	19.2878	0.0536	18.6660	0.0584	17.7714	0.0727	28.1	0.140	0	0.36
253	318.3253846	-67.7431909	19.7736	0.0868	19.3752	0.1174	18.7161	0.1820	68.1	0.089	0	0.83
254	318.3906894	-67.7436752	18.6727	0.0555	17.9076	0.0538	17.1347	0.0751	44.0	0.125	0	0.01
255	318.3599846	-67.7442434	19.9867	0.1016	19.5274	0.1302	19.7793	0.4664	-90.0	0.196	0	0.64
256	318.4319792	-67.6190807	19.3177	0.0565	18.9693	0.0790	18.3910	0.1316	-38.0	0.129	16	0.46

Figure A.37: Catalogue for Pavo m1p1 (cont.)

2	318.7480845	-67.7448316	17.1627	0.0187	16.4180	0.0179	16.1145	0.0388	-40.2	0.315	0	0.03
7	318.7841689	-67.7471854	19.3755	0.0642	19.0107	0.0879	17.9596	0.0969	70.1	0.192	19	0.61
11	318.8027227	-67.6187956	20.0932	0.0797	20.1721	0.1625	19.8884	0.3620	-86.2	0.252	0	0.60
12	318.8942450	-67.6187176	19.2463	0.0719	18.2989	0.0584	17.4274	0.0758	71.4	0.170	0	0.13
13	318.9120013	-67.6187691	19.6302	0.0679	18.4860	0.0459	18.4919	0.1317	12.9	0.130	0	0.88
14	318.8944603	-67.6228448	20.0133	0.1269	19.4902	0.1525	19.3319	0.3824	69.2	0.010	0	0.75
16	318.7860982	-67.6245611	17.7640	0.0348	17.1558	0.0384	16.6471	0.0696	-40.6	0.335	2	0.01
17	318.8876532	-67.6236424	19.1056	0.0588	18.3675	0.0575	17.8151	0.0998	-84.7	0.254	0	0.02
18	318.8839154	-67.6240067	19.3482	0.1033	18.7579	0.1169	18.6508	0.3076	34.2	0.200	0	0.00
19	318.7601188	-67.6249542	19.6222	0.0660	19.4527	0.1074	18.8787	0.1833	11.4	0.251	0	0.48
20	318.7409077	-67.6252032	18.5375	0.0339	18.1101	0.0432	18.3100	0.1487	57.1	0.093	0	0.89
22	318.8871948	-67.6261620	19.9673	0.0821	19.7252	0.1257	98.9076	99.0000	39.0	0.136	0	0.44
23	318.8724094	-67.6265140	18.8587	0.0570	18.3948	0.0718	17.7981	0.1201	16.7	0.060	0	0.08
24	318.8135387	-67.6268297	19.5848	0.0962	19.0961	0.1190	18.6701	0.2332	12.1	0.102	0	0.58
28	318.8716334	-67.6294520	19.2702	0.0765	18.2619	0.0588	17.4439	0.0802	0.4	0.161	0	0.00
29	318.7614522	-67.6310276	19.1309	0.0750	18.6473	0.0931	18.1304	0.1678	-13.3	0.009	0	0.89
31	318.6177440	-67.6327241	19.6080	0.0721	19.3214	0.1061	19.1401	0.2595	40.9	0.407	0	0.13
32	318.8677372	-67.6329411	19.6989	0.0984	20.1361	0.2844	19.7937	0.6032	-61.7	0.201	0	0.51
33	318.6232153	-67.6339769	19.5547	0.0687	19.2308	0.0977	18.6019	0.1584	69.3	0.545	0	0.01
34	318.9082456	-67.6335952	19.8133	0.0697	19.1116	0.0699	18.9802	0.1779	-17.0	0.111	0	0.65
35	318.6278561	-67.6349266	19.1206	0.0836	18.8580	0.1275	18.0621	0.1780	-6.4	0.411	0	0.00
36	318.7941907	-67.6350360	19.0179	0.0471	18.3462	0.0485	18.1722	0.1187	-37.8	0.127	0	0.83
41	318.7384023	-67.6380623	19.8695	0.0743	19.1551	0.0738	18.2911	0.0962	46.3	0.118	0	0.31
42	318.8818599	-67.6377290	19.4613	0.0826	19.0735	0.1118	19.7339	0.5945	-0.3	0.010	0	0.12
43	318.9122755	-67.6378412	19.1232	0.0486	18.3214	0.0445	18.1448	0.1082	-39.9	0.079	0	0.87
45	318.6872386	-67.6386735	18.6855	0.0529	18.0816	0.0587	17.1273	0.0707	67.0	0.059	0	0.02
46	318.8461956	-67.6391365	17.0047	0.0119	16.3544	0.0119	15.9296	0.0226	-8.1	0.139	0	0.16
49	318.8174452	-67.6414530	18.4274	0.0439	17.8146	0.0482	17.1542	0.0758	-77.6	0.474	0	0.01
51	318.7854676	-67.6414857	19.6565	0.0849	19.1248	0.1006	24.0559	27.2367	0.5	0.154	0	0.77
52	318.9160013	-67.6414271	19.6264	0.0705	19.0887	0.0825	18.1512	0.1008	-13.7	0.223	0	0.30
53	318.7930785	-67.6432933	18.7854	0.0428	17.9047	0.0365	17.3697	0.0641	-49.7	0.130	0	0.03
54	318.8371109	-67.6459006	18.9448	0.0598	18.2165	0.0592	17.6386	0.1005	82.7	0.134	0	0.00
57	318.7448990	-67.6477930	19.2022	0.0627	18.4687	0.0616	17.8474	0.1004	4.4	0.067	0	0.06
58	318.6991027	-67.6481145	19.1644	0.0570	18.6238	0.0665	17.6500	0.0786	-0.2	0.131	0	0.04
59	318.9121387	-67.6476165	19.4718	0.0609	18.7648	0.0609	19.2339	0.2687	-5.9	0.083	0	0.89
62	318.8782857	-67.6483526	19.5036	0.0981	18.8780	0.1073	21.1811	2.5901	0.7	0.383	0	0.00
63	318.8611527	-67.6491093	18.3206	0.0401	17.5548	0.0382	16.8668	0.0585	10.9	0.020	0	0.05
64	318.8935277	-67.6489688	19.3227	0.0603	18.9635	0.0829	18.6847	0.1852	89.8	0.042	0	0.81
66	318.7068286	-67.6499489	18.6130	0.0476	17.9574	0.0502	17.3495	0.0829	-38.6	0.154	0	0.01
67	318.8153382	-67.6496632	19.6580	0.1115	19.1763	0.1392	19.5285	0.5586	-63.3	0.104	0	0.83
69	318.7795249	-67.6499368	19.4314	0.0919	19.2367	0.1490	19.1527	0.4003	40.9	0.097	0	0.47
70	318.8536365	-67.6506765	19.3938	0.0947	18.4596	0.0782	18.0544	0.1559	71.4	0.224	0	0.00
72	318.7517948	-67.6519208	18.8620	0.0622	18.0326	0.0563	17.5811	0.1074	3.7	0.062	0	0.25
73	318.7246805	-67.6520687	19.9430	0.0793	19.7307	0.1245	21.1305	1.3025	31.4	0.229	0	0.08
74	318.6405940	-67.6535053	19.0780	0.0521	18.3527	0.0513	18.2583	0.1352	43.5	0.075	0	0.81
77	318.8828937	-67.6540470	18.5226	0.0376	18.1862	0.0524	17.6889	0.0958	88.2	0.187	0	0.53
78	318.9134927	-67.6539748	19.8010	0.0746	19.3040	0.0904	18.9971	0.1967	-38.1	0.137	0	0.71
80	318.9094142	-67.6549657	16.9367	0.0120	16.2443	0.0117	15.8067	0.0220	82.1	0.302	0	0.03
82	318.6562610	-67.6574296	18.7028	0.0409	17.9747	0.0401	17.2019	0.0567	-89.0	0.092	0	0.02

Figure A.38: Catalogue for Pavo p0p1

86	318.8774304	-67.6592425	19.5827	0.0665	19.1487	0.0853	19.4361	0.3201	-1.0	0.156	0	0.68
87	318.8489196	-67.6599692	19.2246	0.0819	19.4195	0.1896	19.0336	0.3863	78.8	0.137	0	0.33
88	318.8893369	-67.6609353	18.9100	0.0766	18.8382	0.1392	18.3703	0.2630	-16.9	0.108	1	0.03
89	318.9259147	-67.6611872	18.7191	0.0674	17.8598	0.0595	17.7088	0.1499	73.9	0.148	16	0.00
91	318.8679103	-67.6617387	19.2588	0.0876	18.6827	0.1003	17.6959	0.1174	34.9	0.112	0	0.12
93	318.9198989	-67.6622212	18.0025	0.0460	17.9108	0.0819	17.5997	0.1787	-53.8	0.381	0	0.19
94	318.6885999	-67.6627815	19.1260	0.0695	18.8513	0.1043	18.2630	0.1760	74.7	0.046	0	0.39
95	318.9098102	-67.6629096	18.0723	0.0265	17.3709	0.0263	17.0431	0.0556	-22.0	0.199	0	0.04
96	318.9254486	-67.6649907	15.8179	0.0157	15.3077	0.0190	15.1032	0.0455	-87.3	0.362	24	0.00
97	318.7673024	-67.6637781	19.4771	0.0801	19.4238	0.1471	18.5604	0.1930	0.6	0.136	0	0.81
98	318.6587248	-67.6643687	18.9324	0.0570	18.1085	0.0516	17.4647	0.0825	-30.7	0.125	0	0.03
99	318.8784715	-67.6641851	19.8650	0.0760	19.6345	0.1173	19.2572	0.2397	13.6	0.057	0	0.74
100	318.7398913	-67.6651273	19.4073	0.0552	18.7459	0.0573	18.6941	0.1566	-89.0	0.163	0	0.86
102	318.8731267	-67.6656867	19.1112	0.0710	18.3264	0.0669	17.5070	0.0912	73.3	0.193	0	0.17
103	318.6555776	-67.6673455	18.2344	0.0419	17.4947	0.0410	16.8041	0.0627	52.8	0.248	0	0.01
105	318.9147255	-67.6680573	19.2530	0.0963	18.9697	0.1444	19.7531	0.8623	3.5	0.285	0	0.15
106	318.9091957	-67.6688739	19.8463	0.0748	19.2403	0.0820	19.5125	0.3030	-42.2	0.130	0	0.64
107	318.8230671	-67.6694478	19.8379	0.0893	19.9816	0.1958	19.5066	0.3670	45.6	0.212	0	0.08
108	318.7111308	-67.6702114	18.6110	0.0587	17.8837	0.0584	17.4904	0.1177	55.6	0.078	0	0.00
111	318.6848566	-67.6719574	18.4740	0.0321	18.1425	0.0444	18.2853	0.1453	-7.7	0.059	0	0.83
112	318.8705930	-67.6712850	19.8984	0.1025	19.1328	0.0983	18.2846	0.1305	33.6	0.198	0	0.73
115	318.6912844	-67.6734281	15.7980	0.0064	15.0250	0.0058	14.5095	0.0100	-60.4	0.300	0	0.03
116	318.6976359	-67.6731115	19.2845	0.0956	18.9420	0.1357	17.9438	0.1574	-44.9	0.206	0	0.07
118	318.8670892	-67.6732564	19.8600	0.0982	19.2422	0.1077	19.5766	0.4237	-45.1	0.119	0	0.70
119	318.8302792	-67.6736979	19.2855	0.0898	18.6817	0.1002	18.2733	0.1995	-16.0	0.220	0	0.01
122	318.8370892	-67.6745328	19.6073	0.0686	18.7757	0.0615	18.5708	0.1463	-39.2	0.175	3	0.21
123	318.8383370	-67.6749663	19.2866	0.0691	18.3066	0.0544	17.5366	0.0773	20.7	0.138	2	0.00
124	318.8645522	-67.6745748	19.3410	0.0553	18.8365	0.0663	18.6429	0.1596	21.3	0.008	0	0.37
125	318.8310097	-67.6747527	19.0267	0.0782	18.3780	0.0837	17.8750	0.1529	32.4	0.158	0	0.00
128	318.6327582	-67.6757849	18.3676	0.0440	17.7190	0.0468	17.0763	0.0749	51.5	0.271	0	0.00
129	318.6405279	-67.6765129	19.9594	0.0910	19.4011	0.1049	19.7389	0.4133	44.0	0.037	0	0.42
130	318.7945712	-67.6764316	20.1041	0.0888	19.4414	0.0928	19.4710	0.2746	-75.2	0.147	0	0.65
134	318.7366272	-67.6798425	19.2061	0.0791	18.5000	0.0802	17.8307	0.1256	40.9	0.209	0	0.11
135	318.5943501	-67.6818271	19.5873	0.0978	19.2445	0.1384	18.7294	0.2500	-89.0	0.386	0	0.01
136	318.7260959	-67.6823745	18.8722	0.0717	18.2658	0.0798	17.5347	0.1181	-29.3	0.205	0	0.01
137	318.7291790	-67.6822140	19.1365	0.0792	18.6170	0.0953	18.4758	0.2427	-38.0	0.012	0	0.69
139	318.6449135	-67.6826512	19.6141	0.1021	19.0719	0.1204	18.3095	0.1733	71.7	0.308	0	0.00
140	318.6494530	-67.6828725	19.5577	0.1005	18.4157	0.0686	17.9220	0.1260	-44.0	0.169	0	0.01
142	318.9227490	-67.6827539	19.9244	0.0780	19.4238	0.0942	19.7164	0.3549	-43.7	0.103	0	0.77
145	318.8054861	-67.6849991	19.1883	0.0605	18.7525	0.0778	18.5224	0.1818	33.1	0.335	0	0.04
146	318.9149415	-67.6849082	19.3161	0.0552	18.7363	0.0618	18.5988	0.1564	-22.7	0.069	0	0.89
148	318.7926154	-67.6853632	18.2804	0.0279	17.6816	0.0303	17.5598	0.0772	-2.6	0.039	0	0.86
151	318.9140984	-67.6871300	18.9096	0.0413	18.4171	0.0497	18.4130	0.1420	-89.5	0.050	0	0.86
153	318.6751151	-67.6876807	20.0373	0.0799	19.7031	0.1120	19.4380	0.2533	-45.1	0.203	0	0.38
160	318.7600684	-67.6911026	19.3675	0.0878	18.9443	0.1154	18.3818	0.1996	15.5	0.203	0	0.00
162	318.6512782	-67.6924370	18.9000	0.0551	18.4987	0.0733	17.9051	0.1229	10.5	0.522	0	0.00
163	318.7763392	-67.6925399	18.7278	0.0674	17.9201	0.0624	17.0181	0.0789	-36.3	0.168	0	0.00
164	318.7557053	-67.6933541	19.8027	0.1081	19.0064	0.1010	18.2093	0.1407	-72.2	0.138	0	0.22
165	318.8807000	-67.6937974	18.2525	0.0468	17.8199	0.0608	17.3123	0.1105	44.2	0.053	0	0.01

Figure A.39: Catalogue for Pavo p0p1 (cont.)

166	318.8424147	-67.6956851	18.8638	0.0588	18.0863	0.0556	17.3349	0.0806	-36.0	0.218	0	0.00
170	318.9219768	-67.6974056	16.2091	0.0089	15.5635	0.0091	15.0521	0.0160	76.9	0.551	0	0.03
172	318.6396593	-67.6985099	17.9443	0.0391	17.4479	0.0479	17.0693	0.0979	34.1	0.123	0	0.01
176	318.6480630	-67.6999180	19.9056	0.0798	19.7818	0.1361	18.9600	0.1851	73.9	0.260	0	0.62
177	318.7315537	-67.6998454	19.8865	0.1074	19.4200	0.1356	18.5031	0.1693	-72.5	0.123	0	0.11
179	318.7185816	-67.7012758	18.9338	0.0568	18.2737	0.0597	17.4752	0.0829	57.2	0.295	0	0.07
180	318.8102385	-67.7028637	19.7059	0.0710	19.2602	0.0902	18.6449	0.1479	52.2	0.189	0	0.85
183	318.8741059	-67.7043643	19.7815	0.0856	19.7814	0.1645	98.9076	99.0000	15.9	0.276	0	0.54
184	318.9062367	-67.7057201	18.7948	0.0412	18.3779	0.0532	17.9576	0.1041	-36.3	0.030	0	0.83
185	318.6683809	-67.7063717	19.5402	0.0678	18.6841	0.0595	18.0644	0.0969	2.3	0.318	0	0.51
189	318.8601112	-67.7067793	18.9452	0.0643	18.2881	0.0680	17.7925	0.1248	-21.5	0.212	0	0.01
190	318.7031794	-67.7078269	18.0428	0.0297	17.2317	0.0269	16.7934	0.0516	43.2	0.221	0	0.01
192	318.9271656	-67.7072251	19.7784	0.1033	19.1451	0.1119	19.5662	0.4774	0.7	0.175	16	0.68
194	318.6513135	-67.7091100	19.8748	0.0956	18.8982	0.0755	19.4019	0.3458	-44.4	0.139	0	0.04
200	318.8895561	-67.7119463	18.9348	0.0662	17.9188	0.0506	17.2699	0.0805	-88.6	0.145	0	0.01
201	318.9207571	-67.7122597	17.3025	0.0225	16.4612	0.0200	15.9712	0.0366	17.7	0.054	0	0.02
202	318.8829187	-67.7126267	19.2771	0.0828	18.4523	0.0754	17.9357	0.1357	-2.2	0.200	0	0.00
203	318.6755782	-67.7131942	19.3855	0.0602	18.7232	0.0628	17.9365	0.0878	13.3	0.092	0	0.00
206	318.6969798	-67.7139513	19.4874	0.0809	18.7426	0.0790	19.0128	0.2924	-2.0	0.052	0	0.82
207	318.6797107	-67.7144752	19.6173	0.0904	19.2104	0.1203	18.8035	0.2398	-41.4	0.148	0	0.20
208	318.7682749	-67.7152185	19.6999	0.0691	19.2680	0.0886	18.6662	0.1472	31.1	0.187	0	0.81
209	318.8010019	-67.7152854	19.8888	0.0934	19.3264	0.1076	19.1896	0.2742	-66.8	0.011	0	0.73
211	318.8416150	-67.7155847	19.9381	0.0873	19.2233	0.0872	18.9234	0.1909	49.9	0.131	0	0.74
212	318.7333486	-67.7165310	19.6281	0.0980	19.7788	0.2179	18.8863	0.2786	-45.7	0.145	0	0.66
213	318.8973587	-67.7172318	19.5925	0.0978	19.4214	0.1619	19.3842	0.4542	74.9	0.164	0	0.76
215	318.6947305	-67.7179013	19.9690	0.1212	18.8335	0.0832	18.5706	0.1888	13.4	0.111	0	0.36
218	318.7286335	-67.7182998	20.0111	0.1194	19.1036	0.1008	19.0622	0.2808	-74.3	0.253	0	0.73
219	318.7009774	-67.7188439	19.4680	0.0911	20.6660	0.5300	20.6527	1.5239	-73.3	0.271	0	0.46
220	318.7470656	-67.7190079	19.4192	0.0604	18.9158	0.0726	18.5421	0.1485	14.8	0.109	0	0.61
222	318.7123895	-67.7190980	19.9084	0.0841	19.0807	0.0757	18.5639	0.1357	81.7	0.040	0	0.75
224	318.7269476	-67.7202785	18.8235	0.0681	18.3558	0.0860	17.6386	0.1289	-16.0	0.080	0	0.10
226	318.7906937	-67.7205588	19.0120	0.0472	18.5397	0.0582	18.0922	0.1111	65.6	0.072	0	0.75
229	318.8748117	-67.7224011	19.1380	0.0598	18.4746	0.0626	19.2332	0.3624	-43.4	0.074	0	0.84
230	318.6176180	-67.7229279	19.5303	0.0893	19.1756	0.1247	19.5307	0.5012	-57.0	0.117	0	0.71
233	318.6672327	-67.7261958	18.5225	0.0406	17.5994	0.0334	16.8363	0.0477	65.4	0.063	0	0.25
236	318.6512222	-67.7272603	18.7499	0.0529	18.5091	0.0815	18.1754	0.1736	-42.3	0.083	0	0.83
237	318.8552208	-67.7270296	19.5399	0.1018	18.6014	0.0837	18.2566	0.1764	-16.4	0.148	0	0.33
238	318.6106468	-67.7276422	18.6001	0.0651	18.6058	0.1270	17.6761	0.1569	-40.5	0.068	0	0.64
239	318.8934507	-67.7274337	18.9139	0.0554	19.0632	0.1217	18.7738	0.2705	-82.2	0.215	0	0.37
241	318.6119556	-67.7298937	16.2389	0.0070	15.9376	0.0090	15.7550	0.0212	-66.6	0.116	3	0.85
244	318.8837703	-67.7287925	20.0211	0.0850	19.5805	0.1086	19.9692	0.4476	89.7	0.257	0	0.05
245	318.7247643	-67.7302125	18.6725	0.0497	17.8781	0.0462	17.4828	0.0926	-38.2	0.167	0	0.01
246	318.8421752	-67.7297212	20.0691	0.0808	19.7626	0.1162	19.3845	0.2369	0.0	0.170	0	0.56
247	318.8119859	-67.7299628	19.5527	0.1059	18.9630	0.1197	18.1913	0.1709	39.1	0.140	0	0.00
250	318.8593078	-67.7311516	19.5260	0.0981	19.9596	0.2832	19.9273	0.7992	-24.6	0.096	0	0.58
251	318.7144131	-67.7317898	19.1935	0.0615	18.4484	0.0597	17.8208	0.0968	66.7	0.097	0	0.24
253	318.6909997	-67.7326516	19.8175	0.1102	18.9187	0.0938	18.2780	0.1507	26.9	0.379	0	0.02
254	318.5911578	-67.7331485	19.7819	0.0908	18.9228	0.0799	18.6227	0.1750	44.2	0.265	0	0.17
255	318.7767690	-67.7328202	19.7476	0.0961	19.2081	0.1133	19.0769	0.2907	-69.6	0.037	0	0.66

Figure A.40: Catalogue for Pavo p0p1 (cont.)

256	318.9285127	-67.7330155	17.9277	0.0207	17.0793	0.0177	16.4574	0.0284	-70.9	0.223	24	0.08
262	318.5988365	-67.7394341	16.1911	0.0111	15.6609	0.0128	15.3057	0.0265	-45.1	0.415	2	0.01
263	318.5947575	-67.7387266	19.0293	0.0786	17.8501	0.0519	17.5863	0.1176	71.6	0.190	3	0.04
266	318.6404312	-67.7406824	19.7398	0.0847	19.2839	0.1073	18.9257	0.2233	6.5	0.012	0	0.72
267	318.7819692	-67.7405696	19.3646	0.0596	18.3569	0.0455	17.7153	0.0725	45.7	0.081	0	0.43
268	318.8314213	-67.7408866	19.7007	0.1003	19.4037	0.1479	18.4891	0.1851	-14.0	0.305	0	0.02
270	318.8520868	-67.7420275	20.0357	0.1036	19.3759	0.1093	19.2938	0.2930	3.6	0.177	0	0.40
271	318.6226195	-67.7437014	17.7862	0.0224	16.7476	0.0164	15.9942	0.0234	53.1	0.269	0	0.10
272	318.7780563	-67.7442391	19.4872	0.0725	18.9673	0.0865	20.4547	0.9810	3.1	0.098	0	0.81
273	318.8662543	-67.6202522	16.5706	0.0100	15.8885	0.0098	15.4686	0.0187	-69.4	0.193	0	0.03
275	318.6338923	-67.7449244	18.7975	0.0461	18.4875	0.0662	17.8467	0.1062	8.0	0.082	0	0.31
276	318.6448408	-67.7448863	19.7562	0.0908	19.2109	0.1064	19.9167	0.5887	-16.8	0.028	0	0.79
278	318.8341842	-67.6210179	19.3255	0.0571	18.5680	0.0545	18.1887	0.1106	-36.6	0.148	0	0.87
279	318.8216880	-67.6217106	19.0237	0.0497	18.2550	0.0470	17.9885	0.1056	81.5	0.166	0	0.03
280	318.7274491	-67.6218860	18.7219	0.0619	18.8759	0.1377	17.4981	0.1128	38.2	0.082	0	0.13
281	318.8532082	-67.6216350	19.7484	0.0786	19.3606	0.1056	19.2792	0.2832	-85.8	0.127	3	0.82

Figure A.41: Catalogue for Pavo p0p1 (cont.)

1	48.4471967	-65.8291474	13.9669	0.0049	14.1852	0.0106	14.5168	0.0508	-89.1	0.669	26	0.00
3	48.4855584	-65.8716773	19.9349	0.0747	19.1971	0.0678	18.8807	0.1780	0.7	0.623	24	0.58
4	48.6758460	-65.7452247	17.8210	0.0227	17.0330	0.0195	16.2100	0.0318	82.3	0.355	16	0.02
5	48.5719580	-65.7442728	18.6609	0.0594	18.6746	0.1084	17.9635	0.2005	5.6	0.446	24	0.00
6	48.5602006	-65.7469471	18.7783	0.0615	18.0302	0.0560	17.1952	0.0920	-4.5	0.004	0	0.06
11	48.5281109	-65.7526116	18.3325	0.0359	17.4577	0.0289	16.7394	0.0523	-82.7	0.187	0	0.03
13	48.6205127	-65.7528234	19.4259	0.0748	19.0321	0.0936	18.3365	0.1751	-15.9	0.197	0	0.00
19	48.7039927	-65.7563546	18.7323	0.0575	18.4162	0.0774	17.6287	0.1332	-61.2	0.071	0	0.10
21	48.4983752	-65.7575280	19.3912	0.0779	19.1950	0.1170	18.5966	0.2397	49.3	0.321	0	0.56
22	48.6520489	-65.7578562	19.4198	0.0754	18.6857	0.0693	18.0131	0.1321	42.2	0.071	0	0.68
23	48.7026107	-65.7582061	18.4641	0.0477	18.1536	0.0644	17.6426	0.1427	-13.1	0.018	0	0.64
24	48.4800381	-65.7595113	17.2467	0.0213	16.5986	0.0209	15.7665	0.0343	45.7	0.390	0	0.02
27	48.6185280	-65.7599846	19.4503	0.0734	18.9586	0.0840	19.0577	0.3256	19.0	0.130	0	0.81
29	48.4995868	-65.7622030	19.6694	0.1070	19.0646	0.1113	18.6951	0.2813	19.4	0.203	0	0.74
30	48.4508081	-65.7628614	19.4917	0.0640	18.3668	0.0411	17.5172	0.0660	75.5	0.221	0	0.06
32	48.5514019	-65.7651352	18.1118	0.0309	17.3677	0.0279	16.6426	0.0503	-57.6	0.133	0	0.04
34	48.4914176	-65.7672656	16.8066	0.0167	16.0810	0.0153	15.4028	0.0287	79.2	0.306	0	0.03
37	48.4734577	-65.7686426	18.1503	0.0294	17.4119	0.0265	16.9631	0.0614	29.4	0.497	0	0.01
40	48.7421719	-65.7688788	18.1870	0.0311	17.4598	0.0284	16.6462	0.0472	68.7	0.103	0	0.01
41	48.5243049	-65.7708372	15.1748	0.0046	14.5184	0.0043	14.1141	0.0099	-53.4	0.251	0	0.03
43	48.5990271	-65.7707019	20.0342	0.1208	19.3289	0.1145	18.6544	0.2185	-87.7	0.196	0	0.16
44	48.7526276	-65.7711255	18.4338	0.0501	17.8007	0.0505	17.1069	0.0946	89.1	0.306	0	0.07
45	48.7562804	-65.7711534	19.0278	0.0501	18.5804	0.0593	19.1098	0.3397	83.5	0.430	24	0.89
46	48.5689826	-65.7719135	18.7735	0.0494	18.5033	0.0689	18.4595	0.2341	-56.2	0.124	0	0.51
47	48.5143519	-65.7721741	19.0300	0.0588	18.5608	0.0687	17.5892	0.0996	70.2	0.149	0	0.08
49	48.6721204	-65.7731386	19.3255	0.0782	18.8785	0.0935	19.0990	0.4063	-25.8	0.108	0	0.70
50	48.6083132	-65.7735660	19.4157	0.0835	18.6416	0.0742	18.1182	0.1624	-81.0	0.409	0	0.02
51	48.7409248	-65.7740404	19.6282	0.0785	18.8369	0.0684	18.8466	0.2433	-4.6	0.039	0	0.55
52	48.6580338	-65.7744826	18.8137	0.0744	18.2774	0.0824	17.5276	0.1470	-38.4	0.291	0	0.00
53	48.7564184	-65.7754667	19.3806	0.0660	18.9700	0.0811	18.2912	0.1538	86.1	0.390	24	0.70
55	48.4788707	-65.7778865	18.9327	0.0769	18.8843	0.1331	18.1538	0.2420	42.9	0.083	0	0.00
56	48.7105129	-65.7774482	20.1761	0.1342	19.2850	0.1074	18.2049	0.1412	75.0	0.264	0	0.55
59	48.6918839	-65.7793469	19.2609	0.0548	18.8408	0.0663	18.3372	0.1472	-26.6	0.007	0	0.68
61	48.6688930	-65.7803984	19.2301	0.0508	18.8288	0.0623	18.2942	0.1342	-69.5	0.177	0	0.66
63	48.5613994	-65.7827214	19.5168	0.0922	18.6009	0.0720	17.9385	0.1388	27.0	0.069	0	0.04
64	48.7078693	-65.7823160	18.9787	0.0769	18.0637	0.0602	17.3674	0.1125	61.3	0.077	0	0.07
65	48.5289052	-65.7841577	18.5575	0.0413	17.8853	0.0399	17.1892	0.0740	88.4	0.128	0	0.11
66	48.5448850	-65.7845090	19.5142	0.0777	18.5907	0.0601	17.9059	0.1131	-23.4	0.230	0	0.00
67	48.5188833	-65.7846104	19.7493	0.0995	19.4354	0.1347	18.6664	0.2359	43.0	0.206	0	0.53
68	48.5461903	-65.7859314	18.7558	0.0646	17.7415	0.0461	16.8607	0.0727	-47.9	0.258	0	0.02
69	48.7012546	-65.7854945	19.7839	0.1062	18.5000	0.0594	17.8815	0.1188	86.3	0.222	0	0.12
70	48.4594449	-65.7864288	19.0944	0.0667	18.1633	0.0513	17.2157	0.0758	-9.2	0.118	3	0.25
71	48.4573198	-65.7870756	17.9344	0.0265	17.2386	0.0248	16.4131	0.0408	27.3	0.063	2	0.01
72	48.5208191	-65.7864827	19.2706	0.0605	18.5330	0.0552	17.7533	0.0951	-15.9	0.121	0	0.06
74	48.6273669	-65.7871651	18.9564	0.0694	18.5794	0.0886	17.4965	0.1163	6.0	0.161	3	0.22
75	48.5150197	-65.7869875	20.0151	0.0956	19.3519	0.0937	18.2724	0.1229	13.6	0.275	0	0.58
78	48.6249503	-65.7881351	19.2492	0.0671	18.3359	0.0524	17.7194	0.1048	-58.4	0.120	0	0.13
79	48.6576094	-65.7881441	19.5146	0.0852	19.0569	0.1009	19.2763	0.4380	25.4	0.200	0	0.60
80	48.6766767	-65.7882196	19.1220	0.0748	18.5158	0.0775	17.9884	0.1692	-43.6	0.329	0	0.00

Figure A.42: Catalogue for IRSF p0p0

81	48.5958029	-65.7885193	19.0986	0.0834	18.6942	0.1042	17.6132	0.1371	-75.0	0.199	0	0.00
82	48.4874782	-65.7891156	19.4362	0.0609	18.8784	0.0652	18.3916	0.1468	55.6	0.144	0	0.82
84	48.6103416	-65.7895971	19.9967	0.0941	19.4314	0.1007	18.7840	0.1964	2.3	0.267	0	0.50
85	48.5778763	-65.7911867	18.7784	0.0694	18.6989	0.1167	17.5484	0.1441	-84.7	0.255	0	0.00
86	48.7346524	-65.7908080	19.0006	0.0680	18.4232	0.0722	17.4600	0.1057	-44.1	0.092	0	0.27
88	48.5457824	-65.7916507	19.4931	0.1011	18.5542	0.0775	17.9427	0.1566	29.1	0.167	0	0.00
91	48.5714480	-65.7935612	18.2137	0.0333	17.4505	0.0296	17.0272	0.0703	34.6	0.109	0	0.01
92	48.7239638	-65.7931297	19.4921	0.0790	18.4608	0.0554	17.7115	0.0982	-86.9	0.174	0	0.10
93	48.4650972	-65.7941129	19.5802	0.0697	18.9556	0.0705	18.9572	0.2486	-88.8	0.140	0	0.76
95	48.6988103	-65.7944376	19.7556	0.1118	20.0575	0.2668	19.5824	0.6141	-73.6	0.150	0	0.00
98	48.7522343	-65.7965207	18.3284	0.0541	17.6983	0.0549	17.2051	0.1237	-19.0	0.360	0	0.00
99	48.6557781	-65.7967799	19.6098	0.0999	19.4993	0.1631	18.4536	0.2218	-84.2	0.105	0	0.35
100	48.4835607	-65.7980398	18.9421	0.0613	18.1617	0.0540	17.6313	0.1173	80.3	0.025	0	0.03
101	48.6526842	-65.7976860	19.1038	0.0703	18.9053	0.1055	18.4585	0.2484	-85.7	0.068	0	0.49
103	48.5484951	-65.7992598	18.2100	0.0466	17.5423	0.0455	16.8737	0.0873	-56.7	0.141	0	0.01
105	48.4740021	-65.8017194	18.2889	0.0388	17.4171	0.0314	16.7461	0.0596	-52.8	0.092	0	0.04
106	48.4628674	-65.8022528	19.3532	0.0899	18.6014	0.0816	17.7192	0.1287	-62.7	0.116	0	0.11
108	48.5145668	-65.8025142	19.8581	0.0989	19.4458	0.1221	18.8318	0.2464	44.8	0.119	0	0.60
110	48.6698783	-65.8029553	17.5352	0.0217	16.8919	0.0213	16.2264	0.0405	-27.7	0.077	0	0.05
111	48.4685953	-65.8043521	14.5109	0.0021	13.8720	0.0017	13.6676	0.0039	29.1	0.213	0	0.87
113	48.5070028	-65.8047555	18.8789	0.0468	18.0805	0.0403	17.8699	0.1164	-43.6	0.114	3	0.25
114	48.5082901	-65.8051032	18.4171	0.0355	17.6593	0.0316	17.4342	0.0900	-77.1	0.162	3	0.01
115	48.5745532	-65.8055159	16.6929	0.0115	16.1002	0.0116	15.6075	0.0254	16.8	0.150	0	0.03
119	48.5735123	-65.8069916	18.9880	0.0677	18.1769	0.0582	17.8678	0.1549	54.4	0.316	0	0.08
120	48.7254768	-65.8064808	19.4329	0.0825	18.7087	0.0767	18.1948	0.1693	-89.1	0.213	0	0.00
121	48.5387007	-65.8083541	18.5009	0.0533	17.8149	0.0513	17.1744	0.1008	35.2	0.066	0	0.02
122	48.7057848	-65.8085310	18.6273	0.0522	17.8738	0.0471	16.9855	0.0737	88.1	0.102	0	0.01
125	48.5718659	-65.8120256	18.6721	0.0430	17.6992	0.0316	16.8915	0.0528	-80.8	0.385	0	0.00
129	48.5420253	-65.8151004	18.9713	0.0683	17.7811	0.0416	17.1261	0.0803	68.7	0.060	0	0.05
130	48.7325149	-65.8148144	18.9798	0.0458	18.0313	0.0344	17.2570	0.0590	67.8	0.015	0	0.03
131	48.7470336	-65.8148533	18.9197	0.0449	18.0571	0.0364	17.5555	0.0803	53.5	0.305	0	0.02
132	48.5489523	-65.8160288	19.5765	0.1094	18.8603	0.1028	18.0148	0.1678	47.9	0.170	0	0.01
133	48.6545236	-65.8158574	19.6480	0.1046	19.2294	0.1289	19.2428	0.4637	-10.0	0.242	0	0.34
136	48.5271546	-65.8187787	18.7906	0.0435	17.9491	0.0360	17.1118	0.0585	-26.3	0.026	0	0.02
138	48.4449659	-65.8196127	18.0048	0.0395	18.3498	0.0972	19.2665	0.8044	-77.5	0.599	25	0.00
141	48.5963162	-65.8192774	19.6301	0.1070	18.9828	0.1070	18.4745	0.2382	-37.3	0.440	0	0.01
143	48.5071645	-65.8197652	19.1168	0.0480	18.2780	0.0397	18.3589	0.1491	-33.8	0.137	0	0.41
144	48.4472248	-65.8202962	17.9529	0.0444	17.7185	0.0646	18.0783	0.3197	-50.6	0.360	17	0.00
146	48.4468050	-65.8230330	16.8863	0.0146	16.7256	0.0219	16.9718	0.0961	-46.0	0.209	19	0.76
147	48.7053989	-65.7442233	19.4414	0.0874	19.0095	0.1062	19.7192	0.7244	-42.7	0.118	16	0.76
149	48.5843021	-65.8213820	17.7953	0.0241	17.1465	0.0235	16.5638	0.0481	-22.6	0.209	0	0.02
153	48.4732997	-65.8254188	19.4835	0.0736	19.0800	0.0912	19.2331	0.3719	76.2	0.069	0	0.78
156	48.6575535	-65.8258415	19.1604	0.0783	18.7004	0.0928	18.7314	0.3389	-61.2	0.303	0	0.00
159	48.4630031	-65.8278544	18.1045	0.0393	17.2184	0.0314	16.4608	0.0552	12.2	0.043	0	0.10
160	48.7568761	-65.8296938	15.7898	0.0134	15.2627	0.0148	15.0281	0.0422	87.1	0.676	27	0.00
161	48.7513636	-65.8303062	15.3662	0.0138	14.9356	0.0168	14.7686	0.0512	-23.7	0.411	26	0.00
163	48.5058586	-65.8312856	19.4162	0.0553	18.4941	0.0424	17.5867	0.0645	-74.6	0.167	0	0.27
164	48.5248736	-65.8313309	19.3291	0.0529	18.5605	0.0466	18.0390	0.1011	-47.3	0.084	0	0.80
166	48.4625189	-65.8316477	20.0073	0.1354	19.0995	0.1068	18.4820	0.2148	-44.8	0.153	0	0.26

Figure A.43: Catalogue for IRSF p0p0 (cont.)

167	48.5907939	-65.8321823	19.8615	0.1260	19.4430	0.1555	18.5256	0.2379	0.2	0.251	0	0.54
169	48.4725009	-65.8300443	18.5528	0.0638	16.7649	0.0226	16.5438	0.0648	52.4	0.245	0	0.08
170	48.4767662	-65.8342304	19.6457	0.0817	18.9577	0.0783	18.2568	0.1453	-38.3	0.142	0	0.08
171	48.5235699	-65.8365702	16.8760	0.0144	16.0943	0.0124	15.3526	0.0218	-76.4	0.219	0	0.03
172	48.5267892	-65.8362482	18.4027	0.0535	17.5071	0.0426	16.8679	0.0837	-56.6	0.302	0	0.00
173	48.4646464	-65.8369705	19.1903	0.0802	18.7543	0.0972	17.6049	0.1200	32.9	0.006	0	0.10
174	48.7086969	-65.8367369	18.3893	0.0476	17.3293	0.0326	16.5741	0.0574	81.7	0.189	3	0.02
177	48.6140253	-65.8377932	19.9061	0.0755	19.3776	0.0829	19.8891	0.4669	-46.0	0.171	0	0.64
179	48.6684882	-65.8382716	18.8308	0.0545	18.2335	0.0566	17.2914	0.0843	37.5	0.153	0	0.22
180	48.5215817	-65.8386963	19.2645	0.0740	18.6990	0.0794	17.6458	0.1069	-4.1	0.262	0	0.48
181	48.5131820	-65.8388804	19.9028	0.0680	18.8862	0.0480	18.0795	0.0797	-0.6	0.301	0	0.23
183	48.7278427	-65.8387848	19.5949	0.0795	19.7400	0.1628	18.8135	0.2469	74.8	0.184	0	0.56
184	48.4845947	-65.8396292	19.7842	0.0654	19.1508	0.0651	18.3586	0.1104	46.5	0.234	0	0.68
185	48.5581414	-65.8398306	17.3448	0.0182	16.4386	0.0140	15.7632	0.0262	2.6	0.147	0	0.03
186	48.7538685	-65.8402422	19.5868	0.0929	18.3596	0.0547	19.0050	0.3490	-44.6	0.251	0	0.37
187	48.6813526	-65.8417425	19.1470	0.0658	18.3938	0.0595	17.5513	0.0969	84.3	0.177	0	0.28
188	48.6077757	-65.8422395	18.5441	0.0420	17.7669	0.0369	17.0929	0.0698	85.5	0.229	0	0.22
189	48.5860728	-65.8432653	17.2706	0.0167	16.5234	0.0148	15.8038	0.0265	-63.1	0.386	0	0.02
194	48.5255408	-65.8439333	18.8352	0.0470	18.2344	0.0484	17.7626	0.1105	-19.2	0.099	0	0.33
197	48.4464910	-65.8449243	18.9536	0.0576	17.9381	0.0410	17.4187	0.0894	86.0	0.272	16	0.00
199	48.7300260	-65.8441800	19.8240	0.0799	18.9978	0.0673	17.9444	0.0902	-79.2	0.379	0	0.00
200	48.4987008	-65.8457790	18.9170	0.0791	17.9710	0.0603	17.4146	0.1281	-88.3	0.227	0	0.00
202	48.4509646	-65.8461576	18.9684	0.0458	18.2793	0.0434	18.0513	0.1234	-67.0	0.171	0	0.03
203	48.5394233	-65.8462272	19.7229	0.0809	18.9700	0.0730	19.2317	0.3274	-65.2	0.243	0	0.59
204	48.7421049	-65.8457623	19.3957	0.0665	18.7715	0.0673	18.3085	0.1553	35.7	0.007	0	0.88
205	48.7046747	-65.8460266	19.3459	0.0836	18.8964	0.0999	19.0489	0.4083	42.9	0.083	0	0.68
207	48.7185582	-65.8486091	19.7121	0.0914	18.5505	0.0571	17.5714	0.0819	-65.1	0.365	0	0.75
208	48.5272821	-65.8501626	19.5891	0.0602	19.1450	0.0711	18.2261	0.1077	47.3	0.284	0	0.04
209	48.4821413	-65.8504792	19.8525	0.1031	19.1376	0.0967	18.3505	0.1662	-88.2	0.197	0	0.53
211	48.4662864	-65.8512698	19.8400	0.0967	19.4094	0.1174	18.6161	0.2008	-63.9	0.196	0	0.52
212	48.6426521	-65.8510951	18.3695	0.0354	17.4554	0.0274	16.5671	0.0425	-85.3	0.148	0	0.04
213	48.6112421	-65.8516408	17.2238	0.0169	16.4581	0.0148	15.7038	0.0257	-70.0	0.186	0	0.12
214	48.7004689	-65.8509954	19.3985	0.0740	18.6452	0.0668	18.2568	0.1652	86.4	0.113	0	0.85
216	48.7498590	-65.8516908	18.8462	0.0640	18.0695	0.0567	17.3719	0.1057	-54.5	0.072	0	0.20
219	48.5397614	-65.8541106	18.4208	0.0374	18.1646	0.0525	17.9218	0.1483	46.0	0.071	3	0.80
220	48.6040710	-65.8539135	19.6681	0.0978	18.9080	0.0881	18.5672	0.2282	-38.7	0.237	0	0.25
223	48.5510203	-65.8548311	18.7269	0.0488	18.0684	0.0478	17.4312	0.0940	20.6	0.215	2	0.05
224	48.7106815	-65.8543860	19.8870	0.1249	19.5351	0.1639	20.1578	1.0343	-64.8	0.212	0	0.65
225	48.5011916	-65.8557406	19.6745	0.0984	19.0693	0.1021	19.8891	0.7698	69.5	0.043	0	0.49
226	48.5276207	-65.8564880	18.5080	0.0341	17.6322	0.0272	16.7572	0.0425	-53.6	0.029	0	0.06
227	48.5466347	-65.8573682	18.9916	0.0801	18.9856	0.1441	17.5204	0.1334	82.0	0.452	0	0.00
230	48.6202793	-65.8608487	19.5021	0.0765	19.0252	0.0888	19.5141	0.4927	-16.7	0.017	0	0.77
231	48.4860083	-65.8612397	19.8542	0.0955	19.2266	0.0968	18.8906	0.2516	-89.0	0.255	0	0.61
233	48.6335665	-65.8615622	19.0884	0.0776	19.0106	0.1305	18.1525	0.2109	-41.7	0.093	0	0.01
235	48.7562362	-65.8621360	18.3285	0.0436	18.1375	0.0655	17.6643	0.1505	-29.5	0.170	16	0.88
236	48.6928357	-65.8637046	18.1341	0.0338	17.9200	0.0495	17.3649	0.1051	-54.6	0.074	0	0.86
237	48.6968323	-65.8648133	18.3977	0.0516	17.5667	0.0435	16.8516	0.0798	82.5	0.059	0	0.08
240	48.5393451	-65.8668586	18.4936	0.0490	17.8265	0.0479	17.1251	0.0889	-52.6	0.102	0	0.03
241	48.5538968	-65.8671267	17.3960	0.0310	16.8767	0.0347	16.0356	0.0567	29.2	0.342	0	0.00

Figure A.44: Catalogue for IRSF p0p0 (cont.)

242	48.6210206	-65.8667041	19.4453	0.0614	18.8343	0.0626	18.5607	0.1714	-45.5	0.053	0	0.86
243	48.5998825	-65.8677222	18.3696	0.0465	17.4105	0.0349	16.4821	0.0525	-3.3	0.163	0	0.01
244	48.6575664	-65.8684943	18.5035	0.0507	17.8099	0.0483	17.0604	0.0859	-58.4	0.219	0	0.00
245	48.5875765	-65.8685739	19.4857	0.0762	19.1561	0.1011	18.5542	0.2061	50.8	0.259	0	0.25
246	48.6885925	-65.7443860	19.3122	0.0786	19.6180	0.1874	18.3586	0.2096	-66.4	0.269	16	0.14

Figure A.45: Catalogue for IRSF p0p0 (cont.)

1	48.8321313	-65.8691733	17.1962	0.0161	16.3287	0.0126	15.8807	0.0290	9.7	0.509	0	0.02
2	48.9949960	-65.8704936	19.1882	0.0658	18.8092	0.0825	18.9221	0.3263	23.3	0.017	16	0.67
3	48.8756571	-65.8710582	19.8569	0.0857	19.0393	0.0720	19.0285	0.2526	-41.1	0.157	24	0.60
4	48.9582552	-65.7435644	19.3363	0.0593	18.3894	0.0442	17.8663	0.0962	-79.6	0.096	16	0.07
5	48.8884775	-65.7437785	15.3084	0.0115	14.3947	0.0089	17.0153	0.3517	-3.5	0.410	26	0.00
6	48.9230549	-65.7441196	19.0467	0.0662	18.9170	0.1044	98.9132	99.0000	-89.4	0.639	16	0.48
7	48.8591834	-65.7452219	17.6648	0.0194	17.0764	0.0195	16.4299	0.0376	-45.8	0.060	0	0.66
8	48.8095829	-65.7453197	19.3830	0.0943	19.5660	0.1992	18.4162	0.2480	-45.6	0.159	0	0.16
9	49.0101928	-65.7450611	20.0825	0.0772	18.9387	0.0481	17.9853	0.0703	16.2	0.263	0	0.24
10	49.0213446	-65.7455639	19.6778	0.0879	19.4048	0.1217	18.6744	0.2220	4.2	0.041	0	0.62
11	48.8967951	-65.7433639	18.3153	0.0439	17.3032	0.0310	98.9132	99.0000	20.6	0.093	19	0.00
12	48.8895960	-65.7470459	18.8771	0.1126	17.3942	0.0520	18.8676	0.7212	5.7	0.578	0	0.00
13	48.9554076	-65.7476525	18.3639	0.0315	17.5409	0.0261	16.7803	0.0454	-82.5	0.219	0	0.02
14	48.8868992	-65.7485786	19.2478	0.0953	18.7924	0.1124	98.9132	99.0000	-10.0	0.129	0	0.03
15	49.0247551	-65.7485147	19.4924	0.0959	19.7876	0.2244	98.9132	99.0000	-70.2	0.194	0	0.52
17	48.7984969	-65.7504577	19.5974	0.0581	19.3606	0.0815	19.4387	0.3099	30.5	0.174	0	0.72
18	48.9072473	-65.7508010	17.3043	0.0151	16.7161	0.0151	16.1418	0.0309	-22.2	0.091	0	0.33
22	48.9706890	-65.7533289	19.8427	0.1198	18.9271	0.0927	18.3066	0.1869	39.1	0.014	0	0.00
23	48.9194544	-65.7545041	16.9633	0.0211	16.3155	0.0206	15.5318	0.0356	63.2	0.356	0	0.02
24	48.9988389	-65.7537495	19.2291	0.0598	19.1857	0.1013	18.7960	0.2525	-66.1	0.147	0	0.88
27	48.8078697	-65.7573674	19.5058	0.0758	19.3062	0.1118	18.2649	0.1533	-59.1	0.079	0	0.63
28	48.9950165	-65.7578558	19.2832	0.0775	19.0421	0.1106	18.2662	0.1937	45.2	0.120	0	0.69
29	48.9438439	-65.7595828	19.6415	0.0772	19.0475	0.0795	18.8147	0.2280	0.4	0.153	0	0.71
30	48.8986808	-65.7603561	17.5109	0.0196	16.7052	0.0163	16.0455	0.0311	36.6	0.269	0	0.02
31	48.8110580	-65.7614497	19.9856	0.1114	19.6500	0.1460	19.1289	0.3231	-87.4	0.189	0	0.54
32	48.8768009	-65.7616640	17.5373	0.0224	17.0791	0.0257	16.5360	0.0551	4.9	0.248	0	0.00
33	48.9930106	-65.7614263	19.2598	0.0748	18.4399	0.0630	17.4271	0.0884	-72.7	0.080	0	0.23
36	48.8699192	-65.7665043	20.1247	0.0848	19.6095	0.0932	20.1887	0.5624	44.8	0.206	0	0.55
38	48.8368300	-65.7674676	19.2144	0.0565	18.2964	0.0432	17.6156	0.0817	44.5	0.093	0	0.78
39	48.8434280	-65.7676831	19.0915	0.0643	18.2612	0.0535	17.6759	0.1111	-48.5	0.168	0	0.04
42	48.7421732	-65.7688595	18.0870	0.0290	17.6414	0.0337	16.9327	0.0621	-80.2	0.055	0	0.01
44	48.7944720	-65.7686425	19.6090	0.0630	19.1524	0.0728	18.7058	0.1711	-43.6	0.136	0	0.64
45	48.7655453	-65.7705111	18.1580	0.0484	18.1597	0.0865	17.9236	0.2490	-87.5	0.752	0	0.00
46	48.8828577	-65.7700584	19.5421	0.0778	18.8735	0.0750	17.8569	0.1049	7.9	0.027	0	0.49
49	48.7526893	-65.7711186	18.9483	0.0514	18.1901	0.0455	17.4114	0.0788	74.3	0.235	0	0.05
51	48.8332728	-65.7722418	19.5041	0.0761	19.1847	0.1007	19.1329	0.3422	30.5	0.008	0	0.74
52	48.9823003	-65.7721899	18.7289	0.0557	17.8985	0.0464	17.1449	0.0825	-83.6	0.098	0	0.02
54	48.9713904	-65.7730355	18.5317	0.0604	18.1923	0.0790	17.2451	0.1183	-40.7	0.197	0	0.00
56	48.7572933	-65.7755459	18.1469	0.0455	17.4993	0.0448	16.5753	0.0683	77.7	0.074	0	0.03
57	48.8582130	-65.7752007	19.3855	0.0805	19.1955	0.1203	18.6417	0.2584	82.4	0.202	0	0.09
59	48.9810393	-65.7751236	19.1664	0.0853	18.7185	0.1011	18.6465	0.3383	-41.7	0.108	3	0.44
60	48.9826436	-65.7766121	16.1938	0.0091	15.5659	0.0088	15.1123	0.0200	-34.3	0.197	2	0.03
61	48.7961183	-65.7781226	19.0860	0.0742	18.8367	0.1053	17.8911	0.1578	-87.6	0.316	0	0.03
62	49.0208555	-65.7779855	17.3029	0.0162	16.4424	0.0128	15.6805	0.0220	-20.3	0.223	0	0.03
63	48.8520614	-65.7790050	19.0315	0.0649	18.2331	0.0556	17.3504	0.0880	-67.0	0.310	0	0.00
64	49.0048570	-65.7792146	18.8829	0.0559	18.2230	0.0543	17.4013	0.0907	-26.3	0.058	0	0.20
65	48.8999996	-65.7798133	18.9861	0.0485	18.4585	0.0526	17.8465	0.1062	77.7	0.168	0	0.11
67	48.7713138	-65.7813332	17.7792	0.0225	16.9237	0.0180	16.0564	0.0284	-68.1	0.229	0	0.22
70	48.9743562	-65.7834852	19.3112	0.0936	19.2969	0.1652	17.9473	0.1710	-32.1	0.279	0	0.35

Figure A.46: Catalogue for IRSF p1p0

72	48.9670680	-65.7839457	19.4301	0.0844	19.2432	0.1267	19.2098	0.4393	64.1	0.102	0	0.69
73	48.9539030	-65.7841287	19.1533	0.0761	18.3723	0.0665	17.3931	0.0963	-44.5	0.169	0	0.15
74	48.7653936	-65.7850158	19.0849	0.0799	19.3830	0.1876	19.2347	0.5868	-71.9	0.257	0	0.00
76	48.9288359	-65.7852986	19.7213	0.0894	19.6546	0.1493	18.6962	0.2212	-40.2	0.126	0	0.61
77	48.9231203	-65.7858270	18.2196	0.0464	18.1734	0.0791	18.5084	0.3852	89.3	0.142	0	0.08
78	48.7915327	-65.7861100	19.7509	0.1043	19.0274	0.0960	18.7027	0.2540	-25.9	0.362	0	0.56
81	48.8069906	-65.7866751	19.4966	0.0920	18.5429	0.0687	17.6186	0.1046	14.0	0.098	0	0.27
82	48.7782754	-65.7869297	19.7550	0.0937	19.4796	0.1295	19.2980	0.3915	11.2	0.044	0	0.57
84	48.8942756	-65.7877969	18.1917	0.0321	17.3977	0.0274	16.6237	0.0474	84.9	0.103	0	0.02
86	48.7751333	-65.7887601	19.1620	0.0633	18.2766	0.0500	17.7182	0.1062	-35.2	0.087	0	0.18
87	48.9652560	-65.7893167	19.0606	0.0617	18.5140	0.0664	18.4548	0.2237	-50.7	0.144	0	0.89
89	48.7346703	-65.7907851	19.5132	0.0631	18.4186	0.0412	17.7025	0.0750	-40.7	0.097	0	0.28
93	48.8842052	-65.7935802	19.4616	0.0914	19.1006	0.1171	18.5208	0.2457	-58.4	0.282	0	0.61
94	48.8863178	-65.7936252	19.1832	0.0764	18.6113	0.0807	17.8011	0.1368	-61.7	0.293	0	0.20
96	48.9078739	-65.7947262	18.9868	0.0618	18.1260	0.0500	17.3109	0.0840	-33.7	0.248	0	0.10
99	48.7516642	-65.7965093	19.1907	0.0801	18.3702	0.0675	17.7749	0.1391	-27.5	0.235	0	0.00
102	48.8755473	-65.7970440	18.2966	0.0399	17.8167	0.0454	17.2899	0.0995	45.2	0.402	0	0.72
103	48.9804748	-65.7966944	20.0431	0.0870	19.3593	0.0823	18.6771	0.1560	71.0	0.115	0	0.59
104	48.7709079	-65.7976938	18.2905	0.0341	17.7970	0.0381	17.6587	0.1186	43.5	0.268	0	0.01
106	48.9227045	-65.7974579	18.9338	0.0731	19.0391	0.1436	17.9921	0.1964	-76.5	0.234	0	0.01
107	48.8936560	-65.7983748	19.7826	0.0928	19.6808	0.1502	20.1058	0.7936	-24.4	0.197	0	0.49
108	48.9228560	-65.7993909	18.9079	0.0672	19.3426	0.1782	18.3920	0.2665	-50.4	0.329	0	0.07
109	48.8104361	-65.8010512	18.5654	0.0557	17.8651	0.0522	16.8067	0.0704	-42.0	0.076	0	0.06
111	48.8193217	-65.8039503	18.1081	0.0434	17.2763	0.0361	16.6811	0.0743	62.7	0.137	0	0.01
112	48.9960501	-65.8034006	19.5583	0.0641	19.0161	0.0687	18.7390	0.1887	-13.0	0.274	0	0.41
113	49.0043068	-65.8033337	19.5685	0.0919	18.7526	0.0777	17.8996	0.1265	-86.6	0.184	0	0.35
115	48.8984021	-65.8040342	19.0654	0.0654	18.3574	0.0609	17.6027	0.1083	-42.0	0.092	0	0.57
120	48.7649099	-65.8062397	18.5450	0.0645	18.1155	0.0777	17.5825	0.1703	42.1	0.404	2	0.00
121	48.7253878	-65.8065169	19.2826	0.0865	19.1271	0.1340	18.9143	0.3943	64.5	0.107	0	0.09
122	48.7325809	-65.8081176	19.8244	0.1094	19.5308	0.1492	18.8533	0.2862	26.1	0.384	0	0.45
123	48.9341796	-65.8081193	18.2729	0.0345	17.5129	0.0303	16.9568	0.0642	79.2	0.108	0	0.52
125	49.0062957	-65.8086500	19.1919	0.0557	18.3473	0.0455	17.4494	0.0706	86.7	0.176	0	0.08
126	48.9229662	-65.8097066	18.7680	0.0643	18.3795	0.0803	18.7685	0.4103	78.0	0.557	0	0.00
127	48.9810053	-65.8097509	18.9934	0.0585	18.1820	0.0495	17.3149	0.0792	-1.4	0.070	0	0.06
128	49.0143256	-65.8103685	15.8738	0.0072	15.2574	0.0069	14.9137	0.0173	-26.3	0.487	0	0.03
129	49.0305671	-65.8100931	18.6292	0.0466	17.7842	0.0382	17.9413	0.1561	-58.5	0.129	0	0.36
131	48.7971596	-65.8119137	19.2251	0.0768	18.7799	0.0910	17.9886	0.1569	76.9	0.276	0	0.00
132	48.8783732	-65.8115324	19.8496	0.1071	18.6053	0.0614	18.1897	0.1487	-1.7	0.250	0	0.54
134	48.9753084	-65.8123377	19.1114	0.0643	18.7033	0.0786	19.5139	0.5902	79.7	0.055	0	0.87
136	48.7325422	-65.8148197	19.0150	0.0539	18.1059	0.0416	17.1341	0.0603	-62.6	0.121	0	0.84
137	48.7468493	-65.8148703	18.9220	0.0564	18.2040	0.0519	17.3027	0.0806	59.5	0.293	0	0.03
138	48.8089860	-65.8155996	19.3677	0.0828	18.6615	0.0773	18.0150	0.1522	54.8	0.123	0	0.08
139	48.9328820	-65.8156555	18.5478	0.0478	18.0308	0.0528	17.3888	0.1042	18.9	0.116	0	0.00
140	49.0352845	-65.8154778	18.1388	0.0253	17.1338	0.0177	16.6830	0.0404	60.2	0.135	24	0.19
141	48.8383859	-65.8169533	18.2946	0.0325	17.4014	0.0253	16.6302	0.0438	-74.5	0.089	0	0.48
142	48.7621920	-65.8171354	19.2268	0.0843	18.7028	0.0931	17.9724	0.1700	0.8	0.007	0	0.07
144	48.8288173	-65.8178860	19.1963	0.0709	18.6899	0.0794	18.0914	0.1632	49.4	0.272	0	0.04
148	49.0075296	-65.8186251	18.4103	0.0370	17.6685	0.0331	17.3962	0.0908	14.3	0.187	3	0.01
150	48.7620755	-65.8184690	19.2652	0.0833	19.0064	0.1172	18.0071	0.1673	-75.7	0.080	0	0.04

Figure A.47: Catalogue for IRSF p1p0 (cont.)

152	48.7849200	-65.8188667	19.5711	0.0574	19.5839	0.1009	18.5445	0.1381	24.8	0.194	0	0.65
153	49.0327026	-65.8187800	19.5808	0.0732	19.7504	0.1508	19.9235	0.6317	-61.0	0.063	0	0.72
154	48.8426539	-65.8201050	20.0117	0.0736	19.1946	0.0614	18.1703	0.0846	18.3	0.148	0	0.54
157	48.8505657	-65.8235324	19.5791	0.0680	18.9781	0.0693	18.7168	0.1930	42.0	0.112	0	0.83
159	49.0182971	-65.8231638	19.8506	0.0795	19.4176	0.0944	18.9420	0.2168	66.4	0.125	0	0.52
163	48.8914442	-65.8254530	19.3820	0.0678	18.8920	0.0767	18.1191	0.1341	-42.1	0.080	0	0.88
164	48.9991205	-65.8253397	18.5263	0.0415	17.6487	0.0329	16.8388	0.0553	18.4	0.092	0	0.02
166	48.9091124	-65.8265291	19.9647	0.0775	19.1770	0.0666	18.4606	0.1218	-0.7	0.182	0	0.63
169	48.9926516	-65.8265852	19.6949	0.0852	18.5201	0.0519	17.9201	0.1059	-13.7	0.040	0	0.69
170	48.7797465	-65.8286206	18.8336	0.0757	17.6803	0.0472	17.1179	0.1002	-49.3	0.290	0	0.01
171	49.0260548	-65.8281766	18.7326	0.0380	17.8280	0.0293	17.0024	0.0481	67.5	0.121	0	0.33
172	48.8288744	-65.8298034	17.8087	0.0267	17.0695	0.0239	16.6146	0.0555	-28.8	0.225	0	0.08
174	48.9228232	-65.8300947	18.6024	0.0616	18.8552	0.1386	18.0276	0.2320	-62.8	0.171	0	0.00
175	48.7519944	-65.8307774	20.0230	0.1180	18.4349	0.0496	17.5601	0.0786	-43.9	0.255	0	0.09
176	48.7872520	-65.8311256	19.5169	0.0934	19.2664	0.1324	18.1283	0.1663	-69.7	0.087	0	0.69
178	48.8619207	-65.8323268	18.0322	0.0371	17.2530	0.0323	16.4829	0.0565	87.6	0.197	0	0.11
179	48.8746209	-65.8324001	18.3627	0.0516	17.9128	0.0609	17.3688	0.1318	82.9	0.329	0	0.00
180	48.9462589	-65.8330463	18.6654	0.0497	18.1105	0.0530	17.2380	0.0845	82.2	0.403	0	0.04
181	49.0273073	-65.8328127	19.7549	0.0667	18.6407	0.0427	18.0288	0.0852	-83.5	0.152	0	0.45
182	48.9252623	-65.8343160	18.3678	0.0518	17.4023	0.0382	16.3662	0.0524	76.9	0.506	0	0.01
183	48.9873666	-65.8344900	16.5336	0.0095	15.9308	0.0092	15.5603	0.0224	9.2	0.252	0	0.04
184	49.0068032	-65.8363611	19.6684	0.1006	18.5556	0.0650	18.6231	0.2458	73.7	0.197	0	0.07
185	48.9849916	-65.8369949	19.5382	0.0666	18.8217	0.0611	17.7201	0.0788	43.8	0.224	0	0.68
186	48.8247161	-65.8382912	18.3850	0.0436	17.6328	0.0389	16.7800	0.0631	-4.3	0.094	0	0.01
187	49.0080396	-65.8380060	17.3550	0.0216	16.4909	0.0173	15.8523	0.0338	-64.3	0.066	3	0.03
188	49.0084473	-65.8393419	18.4073	0.0399	17.3902	0.0279	16.6946	0.0520	76.9	0.123	3	0.06
189	48.7276927	-65.8388387	20.2301	0.0823	19.8425	0.1011	20.0862	0.4479	-0.8	0.255	0	0.59
190	48.9336161	-65.8393739	18.4814	0.0382	17.8622	0.0381	17.1660	0.0711	18.3	0.092	0	0.01
191	48.9573717	-65.8390821	19.7094	0.0727	19.1588	0.0775	18.0168	0.0965	64.7	0.105	0	0.46
194	48.9329761	-65.8411957	19.4506	0.0905	19.4547	0.1620	19.3324	0.5182	-9.3	0.052	0	0.57
196	49.0363565	-65.8430419	18.4268	0.0296	17.7847	0.0286	17.2584	0.0617	-73.9	0.290	24	0.25
197	48.8325340	-65.8439542	18.6833	0.0505	17.8699	0.0426	17.1702	0.0794	-69.0	0.132	0	0.14
198	48.7301022	-65.8442176	19.6811	0.0800	18.8253	0.0650	18.1848	0.1279	-54.1	0.325	0	0.00
199	49.0220101	-65.8438972	19.2924	0.0854	19.3543	0.1612	18.5522	0.2761	35.6	0.300	0	0.00
200	48.9060373	-65.8446628	18.9487	0.0614	18.0266	0.0470	17.4226	0.0958	84.9	0.169	0	0.12
201	48.9973272	-65.8442202	19.4274	0.0803	18.7222	0.0750	17.6927	0.1037	74.9	0.173	0	0.75
202	48.7650375	-65.8450037	19.1911	0.0882	19.7594	0.2657	18.8652	0.4186	-82.1	0.413	0	0.00
203	49.0173735	-65.8444711	19.5520	0.0978	18.8259	0.0898	18.2672	0.1918	-4.8	0.232	0	0.01
204	48.8676329	-65.8453531	19.6581	0.0752	18.7710	0.0592	17.9339	0.0973	25.6	0.108	0	0.69
205	48.7419734	-65.8458263	19.3069	0.0551	19.0567	0.0767	18.8245	0.2200	11.4	0.110	0	0.84
206	48.9429809	-65.8461129	16.1115	0.0076	15.4286	0.0068	14.7670	0.0127	52.1	0.088	0	0.04
207	48.8143148	-65.8461091	19.1486	0.0792	19.2639	0.1569	20.9344	2.6173	-75.3	0.192	0	0.22
209	48.7985448	-65.8473104	19.2717	0.0732	19.2589	0.1285	18.8707	0.3216	67.7	0.138	0	0.62
210	48.8026419	-65.8473049	19.6177	0.0610	19.0010	0.0609	18.6214	0.1517	73.4	0.174	0	0.73
211	48.7616883	-65.8476280	20.1715	0.1269	19.1042	0.0854	17.9009	0.1007	76.9	0.270	0	0.30
213	48.9085478	-65.8477876	19.3766	0.0686	19.0236	0.0879	19.3201	0.4110	-80.9	0.024	0	0.84
214	48.8094700	-65.8480485	20.0392	0.1278	19.5811	0.1501	18.4078	0.1826	-14.6	0.283	0	0.31
215	48.8338963	-65.8486593	19.4656	0.0770	18.7373	0.0702	18.0223	0.1295	-78.3	0.117	0	0.69
216	48.8697528	-65.8486105	19.0457	0.0479	18.3906	0.0462	17.6721	0.0844	-43.2	0.064	0	0.33

Figure A.48: Catalogue for IRSF p1p0 (cont.)

81	48.3840750	-65.6779378	18.2618	0.0497	17.4604	0.0421	16.8540	0.0737	-75.0	0.151	0	0.13
82	48.3572952	-65.6780086	19.1785	0.0776	18.6919	0.0876	17.7287	0.1107	77.1	0.307	0	0.00
84	48.4492366	-65.6791315	18.7207	0.0683	17.9955	0.0621	17.5555	0.1270	69.5	0.152	0	0.12
86	48.4468925	-65.6805675	18.8688	0.0772	18.5266	0.0998	18.2586	0.2393	-28.8	0.023	0	0.36
88	48.2037756	-65.6814951	18.5271	0.0440	17.9998	0.0474	18.2095	0.1751	-49.0	0.052	0	0.79
89	48.4138861	-65.6812192	19.1530	0.0742	18.5693	0.0766	17.9415	0.1316	-32.1	0.344	0	0.17
91	48.2545854	-65.6839556	16.7109	0.0112	16.0119	0.0100	15.5543	0.0195	29.7	0.111	0	0.04
92	48.3854231	-65.6855837	19.5501	0.1158	18.8939	0.1124	17.9126	0.1399	15.1	0.287	0	0.00
93	48.2440588	-65.6867651	18.3989	0.0624	17.7921	0.0633	17.2109	0.1136	-72.5	0.085	0	0.06
95	48.2505042	-65.6880683	18.5916	0.0669	18.0036	0.0690	17.3042	0.1112	88.1	0.065	3	0.00
96	48.2505911	-65.6887220	18.4967	0.0668	17.9993	0.0749	17.1981	0.1100	-58.3	0.297	3	0.00
98	48.4067077	-65.6918125	19.5821	0.0702	19.0304	0.0740	18.1753	0.1030	16.9	0.287	0	0.47
99	48.4398086	-65.6927509	18.5191	0.0673	18.1029	0.0812	17.9465	0.2158	-70.5	0.391	0	0.04
101	48.2421568	-65.6970866	17.8688	0.0487	17.2614	0.0493	16.3495	0.0654	-17.5	0.458	0	0.00
103	48.2728291	-65.6982318	19.2285	0.0626	18.3741	0.0503	17.8150	0.0915	21.1	0.142	0	0.09
107	48.3641599	-65.6989702	18.3553	0.0536	17.4406	0.0410	16.6595	0.0611	-82.4	0.128	0	0.15
108	48.4374135	-65.6992642	19.4965	0.1052	18.3831	0.0672	17.7287	0.1126	87.2	0.155	0	0.07
109	48.2899551	-65.6999038	19.1888	0.0790	18.4259	0.0693	18.6304	0.2555	82.2	0.024	0	0.84
111	48.4170373	-65.7013514	17.6941	0.0386	17.3622	0.0502	17.0450	0.1149	81.2	0.293	0	0.02
113	48.3318213	-65.7024142	19.3168	0.0923	18.9181	0.1131	18.7339	0.2929	-89.0	0.260	0	0.03
115	48.3984155	-65.7031755	18.7447	0.0695	18.3423	0.0849	18.2474	0.2386	37.8	0.124	0	0.40
116	48.3735585	-65.7034962	18.2017	0.0338	17.2312	0.0244	16.4742	0.0368	-89.8	0.019	0	0.06
117	48.4185941	-65.7037328	18.6102	0.0589	18.2831	0.0769	18.4067	0.2639	45.1	0.400	0	0.58
118	48.4408713	-65.7041403	18.7864	0.0710	18.7332	0.1194	17.9870	0.1846	74.8	0.439	0	0.01
120	48.4454994	-65.7042934	19.4415	0.1072	18.6540	0.0922	18.5474	0.2563	-27.2	0.297	0	0.04
121	48.4074912	-65.7048502	19.0487	0.0769	17.9786	0.0511	17.2707	0.0814	75.3	0.436	0	0.01
123	48.3983027	-65.7053291	18.3355	0.0596	17.7307	0.0605	17.5891	0.1629	-5.7	0.144	0	0.11
126	48.4462346	-65.7084390	18.4302	0.0535	17.6039	0.0443	16.9529	0.0744	-64.0	0.268	0	0.01
127	48.3852188	-65.7092652	19.3759	0.0984	18.8726	0.1098	17.7167	0.1164	-81.2	0.369	0	0.67
128	48.2616498	-65.7106722	18.8682	0.0794	19.0119	0.1602	18.4739	0.3003	27.5	0.536	0	0.00
129	48.3888529	-65.7112098	19.5425	0.1022	19.1534	0.1264	18.8621	0.2966	-43.9	0.109	0	0.61
130	48.2801192	-65.7121634	19.8637	0.1058	18.8906	0.0767	18.2674	0.1320	-43.2	0.138	0	0.55
131	48.2515959	-65.7134720	17.7879	0.0291	16.9575	0.0238	16.2161	0.0365	-48.5	0.220	0	0.01
132	48.2235894	-65.7135979	18.2311	0.0409	17.5762	0.0394	16.9392	0.0670	-66.0	0.210	0	0.03
133	48.4452541	-65.7139893	18.3979	0.0372	17.6313	0.0322	17.0253	0.0559	-60.4	0.216	0	0.01
136	48.2475691	-65.7169347	18.5762	0.0514	18.2474	0.0668	17.9124	0.1501	-71.9	0.229	0	0.33
138	48.4610923	-65.7180450	16.7198	0.0127	15.9286	0.0106	15.2847	0.0175	81.5	0.198	0	0.03
139	48.3148884	-65.7179368	19.7787	0.1172	18.8293	0.0869	18.6211	0.2196	-89.5	0.282	0	0.71
141	48.2088950	-65.7211222	19.5074	0.0859	18.7313	0.0744	19.0738	0.3112	86.5	0.047	0	0.65
142	48.1893760	-65.7221109	18.9879	0.0513	18.2536	0.0458	18.1447	0.1255	-66.1	0.153	0	0.86
143	48.4063327	-65.7224454	19.1903	0.0674	18.5224	0.0642	18.1355	0.1374	-71.4	0.107	0	0.79
144	48.3926596	-65.7225317	19.3082	0.1201	19.9374	0.3803	17.5735	0.1331	45.4	0.219	0	0.13
146	48.2314051	-65.7234292	19.3312	0.0887	19.0305	0.1188	18.6104	0.2476	20.9	0.004	0	0.53
147	48.2793007	-65.7252975	19.3766	0.0824	18.1623	0.0480	17.5263	0.0814	24.7	0.111	0	0.27
148	48.4704710	-65.7254261	19.3039	0.0725	18.5170	0.0620	17.5705	0.0794	75.9	0.216	0	0.63
149	48.3669305	-65.7259382	19.8370	0.1089	19.1577	0.1032	19.2668	0.3490	88.6	0.250	0	0.54
150	48.4662416	-65.7258409	19.2385	0.0920	18.5763	0.0887	18.2955	0.2099	-67.2	0.357	0	0.01
151	48.1966189	-65.7267881	19.1893	0.0806	18.7594	0.0959	17.9342	0.1377	-76.6	0.015	0	0.01
152	48.2499575	-65.7270701	19.0219	0.0788	18.3309	0.0739	17.4360	0.0995	-81.0	0.151	0	0.40

Figure A.51: Catalogue for IRSF m1p1 (cont.)

153	48.4751081	-65.7267541	19.7248	0.0753	19.3140	0.0902	18.2082	0.0998	-64.7	0.315	16	0.09
154	48.3815307	-65.7277247	19.4268	0.1058	18.2563	0.0642	17.2313	0.0766	61.0	0.314	0	0.00
155	48.4339938	-65.7285424	19.3076	0.0677	19.0554	0.0940	18.7427	0.2156	70.0	0.234	0	0.65
156	48.4207328	-65.7312752	17.6655	0.0319	17.0313	0.0313	16.4350	0.0552	67.4	0.032	0	0.05
157	48.4674257	-65.7307639	19.5561	0.0931	19.7074	0.1885	18.8999	0.2754	75.6	0.266	0	0.68
158	48.2404312	-65.7321767	19.9479	0.1320	18.3914	0.0564	17.8437	0.1039	50.2	0.060	0	0.65
159	48.4178184	-65.7327713	17.5145	0.0336	17.3029	0.0486	17.5866	0.1934	-88.2	0.361	3	0.04
160	48.4166970	-65.7337445	17.7998	0.0322	17.6618	0.0496	17.7768	0.1685	77.6	0.064	3	0.50
163	48.2918397	-65.7344738	19.6017	0.1083	19.3271	0.1489	17.6571	0.0986	57.5	0.243	0	0.62
164	48.3009787	-65.7356388	18.7386	0.0425	18.2523	0.0473	18.2634	0.1449	-89.6	0.215	0	0.87
165	48.2183743	-65.7358270	19.4009	0.0948	18.4009	0.0672	17.3647	0.0793	58.8	0.102	0	0.45
166	48.3430578	-65.7365483	18.5051	0.0414	17.7355	0.0358	16.8582	0.0486	-77.3	0.170	0	0.02
167	48.1817258	-65.7386539	18.3740	0.0406	17.6551	0.0368	16.7633	0.0494	29.7	0.060	0	0.04
169	48.1862978	-65.7391961	19.5385	0.0861	18.8093	0.0778	18.7371	0.2223	-16.2	0.201	0	0.36
170	48.4000045	-65.7389246	19.5440	0.1160	20.0284	0.3205	18.9954	0.3812	45.3	0.585	0	0.01
172	48.3068275	-65.7396425	18.5973	0.0391	18.0005	0.0394	17.9188	0.1106	88.8	0.123	0	0.86
173	48.2916010	-65.7401062	16.7521	0.0137	16.0967	0.0129	15.4322	0.0212	-47.6	0.239	0	0.02
174	48.1970837	-65.7404782	18.9914	0.0548	18.2473	0.0486	17.4872	0.0736	-35.9	0.034	0	0.14
175	48.1822281	-65.7415345	18.2154	0.0546	17.7520	0.0630	16.7499	0.0770	75.4	0.281	0	0.03
178	48.2780009	-65.7425891	19.5996	0.0922	19.2116	0.1138	18.8689	0.2544	-71.6	0.205	0	0.60
179	48.1798127	-65.7431327	17.8091	0.0278	16.9843	0.0228	16.4117	0.0408	71.9	0.110	0	0.11
180	48.1670982	-65.7438195	19.7410	0.1094	18.8877	0.0885	18.2493	0.1506	88.3	0.205	0	0.07
181	48.2617966	-65.7439222	18.8012	0.0720	19.3478	0.2099	19.6446	0.8483	-42.1	0.139	0	0.57
182	48.2180579	-65.7442585	18.4572	0.0413	17.6838	0.0356	16.8156	0.0489	36.3	0.118	0	0.01
183	48.3698319	-65.7445030	18.6089	0.0523	18.1236	0.0589	18.1783	0.1891	-72.9	0.076	0	0.85
185	48.3930686	-65.7449578	17.3174	0.0238	16.8152	0.0262	16.3878	0.0537	-71.7	0.208	1	0.21
186	48.2146141	-65.7451693	18.3207	0.0399	17.6042	0.0363	16.8467	0.0550	-71.6	0.113	0	0.03
187	48.2806392	-65.7461354	19.6537	0.1092	18.8267	0.0905	17.9861	0.1281	25.5	0.105	0	0.19
189	48.3871631	-65.7471475	18.6936	0.0851	17.7343	0.0627	16.8449	0.0849	-80.5	0.139	0	0.01
191	48.2834597	-65.7482655	18.7716	0.0967	18.4439	0.1272	17.2147	0.1262	-23.5	0.653	0	0.00
193	48.4185076	-65.7500535	18.9005	0.0695	18.5978	0.0929	98.9111	99.0000	88.2	0.276	0	0.60
194	48.3498036	-65.7507457	19.2649	0.0923	19.0346	0.1321	18.5438	0.2582	68.8	0.090	0	0.74
196	48.3171343	-65.6274789	19.1973	0.0564	18.8944	0.0744	17.9645	0.0967	0.9	0.116	0	0.63
197	48.3656307	-65.6328555	19.7771	0.0880	19.1213	0.0848	18.8334	0.1986	63.6	0.011	0	0.62
199	48.4296557	-65.6304447	19.9369	0.0802	19.8623	0.1302	19.0514	0.1889	42.5	0.205	0	0.54

Figure A.52: Catalogue for IRSF m1p1 (cont.)

4	48.5279794	-65.7525228	18.2338	0.0442	17.5448	0.0440	16.5627	0.0550	-71.0	0.209	16	0.03
6	48.6203679	-65.7527136	19.1915	0.0817	18.3914	0.0738	17.5699	0.1069	-43.4	0.357	16	0.03
9	48.5883099	-65.6306231	18.2084	0.0295	17.7763	0.0363	17.9465	0.1294	-48.6	0.137	0	0.79
11	48.7539790	-65.6245834	19.3294	0.0948	98.9238	99.0000	18.3776	0.2298	23.7	0.074	0	0.40
13	48.5973555	-65.6317934	17.9647	0.0241	17.4042	0.0262	17.1161	0.0611	79.5	0.043	0	0.89
14	48.7066136	-65.6314255	18.3580	0.0339	17.7212	0.0349	17.0167	0.0558	25.6	0.098	0	0.25
16	48.5677781	-65.6342428	18.8640	0.0494	17.9206	0.0388	17.3932	0.0730	-36.3	0.052	0	0.05
18	48.5751440	-65.6356318	19.1908	0.0552	18.3218	0.0464	17.9859	0.1038	-87.7	0.143	0	0.26
23	48.5843008	-65.6409250	18.6990	0.0494	17.8283	0.0416	17.4766	0.0921	-83.3	0.125	0	0.15
24	48.4472733	-65.6424216	15.8656	0.0151	14.5482	0.0085	14.2441	0.0196	-87.5	0.302	24	0.00
25	48.4522633	-65.6415429	18.3514	0.0627	16.6451	0.0249	16.1887	0.0501	-80.7	0.402	3	0.00
26	48.4534986	-65.6423203	18.2560	0.0515	17.3580	0.0425	17.1995	0.1130	-79.6	0.528	3	0.00
27	48.4526769	-65.6430937	17.9929	0.0422	17.4490	0.0481	17.3103	0.1303	44.0	0.337	3	0.64
28	48.4636716	-65.6413829	18.7472	0.0548	18.2387	0.0642	18.1653	0.1846	20.6	0.430	0	0.54
31	48.7302336	-65.6430054	19.0444	0.0691	18.1523	0.0573	17.3098	0.0812	21.4	0.095	0	0.13
32	48.5881795	-65.6440290	19.6308	0.1056	18.6774	0.0830	18.1785	0.1616	-62.1	0.382	0	0.09
34	48.6016870	-65.6448431	18.1410	0.0327	17.8101	0.0445	17.5609	0.1086	81.1	0.118	0	0.45
37	48.4474861	-65.6465562	17.9751	0.0451	18.1880	0.1028	18.1682	0.3121	12.3	0.418	16	0.00
41	48.5139014	-65.6480555	19.1983	0.0800	19.0744	0.1340	19.1660	0.4501	-65.8	0.241	0	0.60
43	48.7571975	-65.6479982	18.0477	0.0349	17.2649	0.0317	16.7244	0.0591	-61.5	0.064	0	0.20
45	48.5687613	-65.6496102	16.8544	0.0168	16.2407	0.0176	15.6477	0.0312	-45.7	0.092	0	0.03
48	48.7413909	-65.6514632	16.6415	0.0131	15.9715	0.0129	15.5257	0.0259	-53.0	0.442	0	0.03
50	48.6479880	-65.6524199	18.4907	0.0366	17.9479	0.0410	17.8805	0.1176	-51.6	0.068	0	0.88
51	48.6560345	-65.6527576	19.3752	0.0842	18.3147	0.0599	17.8384	0.1188	-8.0	0.177	0	0.00
52	48.4995867	-65.6536743	18.4995	0.0384	17.6600	0.0330	16.9724	0.0536	-65.2	0.186	0	0.11
54	48.4490176	-65.6560971	18.1856	0.0426	17.8449	0.0582	17.6698	0.1526	-9.3	0.056	0	0.54
55	48.7579132	-65.6548977	19.1366	0.0534	19.3934	0.1246	18.8576	0.2346	-83.1	0.103	0	0.88
56	48.5942855	-65.6582562	19.6326	0.0957	19.0625	0.1065	19.2606	0.3936	5.3	0.178	0	0.50
57	48.6921945	-65.6588956	18.7800	0.0643	18.5029	0.0936	18.3349	0.2474	69.0	0.100	0	0.74
59	48.6530889	-65.6605385	17.5648	0.0367	16.9630	0.0397	16.6715	0.0934	5.3	0.216	0	0.00
60	48.5050678	-65.6631737	19.0974	0.0592	18.8186	0.0852	18.8072	0.2594	55.7	0.047	0	0.70
61	48.7482150	-65.6633702	17.3178	0.0201	16.6104	0.0194	16.2492	0.0424	-20.9	0.108	0	0.02
63	48.4659731	-65.6645636	18.5798	0.0561	18.0856	0.0669	17.9862	0.1880	-22.9	0.069	0	0.22
66	48.7285912	-65.6638729	19.1323	0.0864	18.6160	0.1013	17.7110	0.1361	39.5	0.095	0	0.00
67	48.5372961	-65.6661510	19.1018	0.0754	18.9385	0.1217	18.5647	0.2665	-40.5	0.195	0	0.62
69	48.7016850	-65.6654999	19.4561	0.0950	18.5820	0.0802	18.7864	0.2979	-14.3	0.291	0	0.01
70	48.5511817	-65.6664613	18.6711	0.0647	18.3796	0.0930	17.7134	0.1556	64.7	0.065	0	0.10
71	48.4616367	-65.6670698	19.1641	0.0767	18.4853	0.0773	17.5984	0.1054	80.8	0.183	0	0.49
72	48.4995206	-65.6672761	19.4319	0.0937	19.0141	0.1200	18.5094	0.2329	55.3	0.176	0	0.63
73	48.5615036	-65.6672400	19.3880	0.1122	18.4292	0.0879	18.0294	0.1878	24.3	0.258	0	0.12
75	48.5215349	-65.6691128	19.6772	0.1117	19.2231	0.1386	18.6673	0.2567	-44.8	0.257	0	0.65
76	48.5277784	-65.6693936	19.2969	0.0564	18.3463	0.0440	18.1286	0.1095	-45.9	0.051	0	0.80
77	48.7531135	-65.6689132	19.0657	0.0793	18.3820	0.0797	17.2710	0.0886	-71.1	0.061	0	0.01
79	48.5147129	-65.6742869	16.9205	0.0154	16.2353	0.0150	15.8554	0.0321	-6.4	0.387	0	0.03
80	48.6935626	-65.6747601	19.2578	0.0859	18.6830	0.0953	19.0109	0.3974	-77.2	0.146	0	0.69
81	48.7274596	-65.6746033	19.2812	0.0862	19.0136	0.1267	19.0992	0.4232	79.7	0.042	0	0.21
82	48.4717451	-65.6771163	18.9089	0.0605	18.4358	0.0733	17.9527	0.1448	-52.4	0.157	0	0.06
85	48.7250693	-65.6775140	18.2696	0.0500	17.2124	0.0357	16.6838	0.0674	-5.8	0.161	0	0.13
86	48.7463125	-65.6773895	19.5797	0.0679	18.6428	0.0537	17.5937	0.0627	29.7	0.210	0	0.01

Figure A.53: Catalogue for IRSF p0p1

87	48.4491223	-65.6791136	18.3360	0.0535	17.9686	0.0716	17.0051	0.0912	-41.8	0.094	0	0.15
88	48.4467617	-65.6805949	18.9581	0.0646	18.4712	0.0774	18.0814	0.1667	45.0	0.115	16	0.73
91	48.5268508	-65.6825292	19.0183	0.0694	18.3378	0.0698	17.4625	0.0962	64.8	0.180	0	0.01
92	48.6024140	-65.6835899	18.7207	0.0498	18.6711	0.0884	18.6969	0.2790	-60.0	0.077	0	0.18
93	48.6073714	-65.6841360	19.0236	0.0768	19.2524	0.1780	19.6840	0.8188	-51.1	0.327	0	0.06
94	48.6749653	-65.6847511	18.4720	0.0426	18.2178	0.0626	18.3647	0.2202	80.1	0.104	0	0.70
95	48.6004489	-65.6871830	18.3715	0.0382	17.5184	0.0325	16.7456	0.0489	-51.9	0.088	0	0.08
96	48.5113398	-65.6888340	19.1109	0.0798	17.8176	0.0460	17.3071	0.0883	-64.1	0.177	0	0.00
98	48.5398397	-65.6898773	19.6354	0.1085	18.3568	0.0634	17.6479	0.1016	-85.0	0.280	0	0.05
101	48.4841752	-65.6919272	19.1359	0.0806	18.6653	0.0983	18.1640	0.1913	-43.5	0.208	0	0.01
102	48.6878227	-65.6918476	19.7591	0.1119	19.2022	0.1264	19.1562	0.3737	88.0	0.251	0	0.22
105	48.6654053	-65.6933675	19.0294	0.0674	18.2720	0.0632	17.5760	0.1025	-65.0	0.092	0	0.19
106	48.4465388	-65.6988236	19.9632	0.0874	19.2912	0.0880	19.7580	0.4139	-74.6	0.289	24	0.49
108	48.5506259	-65.6990766	19.0654	0.0523	18.3124	0.0487	17.9519	0.1069	81.8	0.083	0	0.61
109	48.7524095	-65.6996740	19.2415	0.0810	19.1093	0.1347	19.0862	0.4071	-37.9	0.297	0	0.70
110	48.6565130	-65.7014200	18.9981	0.0646	18.5393	0.0794	18.3321	0.2019	-50.5	0.076	0	0.35
111	48.6185240	-65.7018539	19.3389	0.0586	19.1316	0.0895	18.3321	0.1319	-62.5	0.068	0	0.75
115	48.7402924	-65.7022269	19.0059	0.0707	18.0988	0.0579	17.1442	0.0741	-20.0	0.219	0	0.02
116	48.5729814	-65.7038025	19.4279	0.0907	18.5803	0.0784	17.6913	0.1067	32.7	0.034	0	0.69
118	48.4994614	-65.7080981	18.0111	0.0255	17.5353	0.0300	17.4775	0.0865	-58.7	0.069	0	0.85
119	48.4467014	-65.7085957	19.5395	0.0770	18.4855	0.0550	17.7382	0.0848	-74.6	0.330	24	0.67
121	48.6269182	-65.7090058	19.1432	0.0882	18.9420	0.1381	17.8257	0.1529	43.2	0.214	0	0.00
122	48.6923733	-65.7094712	19.7413	0.1013	19.2017	0.1160	20.9035	1.7110	3.0	0.179	0	0.54
124	48.5349633	-65.7106710	19.2740	0.0789	19.0626	0.1218	17.8301	0.1212	-87.1	0.276	0	0.05
125	48.4794765	-65.7114417	18.9364	0.0629	18.5929	0.0859	17.9066	0.1409	-72.3	0.148	0	0.05
129	48.6572850	-65.7139467	19.5449	0.1003	18.6321	0.0818	17.8329	0.1209	-36.4	0.341	0	0.65
130	48.5228868	-65.7155985	19.8552	0.0919	19.2720	0.1007	19.3050	0.3191	33.7	0.044	0	0.48
131	48.7307069	-65.7152646	19.0201	0.0712	18.4204	0.0771	17.8452	0.1400	-54.5	0.110	0	0.88
132	48.4653213	-65.7169951	17.9892	0.0351	18.0399	0.0682	17.7380	0.1592	-85.5	0.244	0	0.26
133	48.7534731	-65.7159907	18.9388	0.0765	19.1584	0.1760	18.2759	0.2417	-44.5	0.153	0	0.02
134	48.4610221	-65.7180739	16.7423	0.0121	16.0228	0.0114	15.2602	0.0170	78.6	0.179	0	0.03
135	48.5906320	-65.7184240	17.2754	0.0190	16.4721	0.0167	15.8715	0.0292	-12.5	0.198	0	0.03
137	48.4801830	-65.7225343	19.4602	0.0949	19.7394	0.2305	19.9036	0.8292	-89.3	0.156	0	0.57
138	48.6702213	-65.7231531	19.5531	0.0683	18.7584	0.0614	17.9883	0.0927	30.9	0.180	0	0.33
139	48.6153457	-65.7246411	18.7597	0.0415	17.8157	0.0324	16.9873	0.0462	-51.9	0.083	0	0.56
140	48.4704125	-65.7255171	19.1409	0.0691	18.3017	0.0600	17.5627	0.0936	-89.5	0.133	0	0.07
141	48.7197865	-65.7246623	19.5275	0.0894	18.8429	0.0896	18.8711	0.2829	-62.3	0.302	0	0.65
142	48.4660930	-65.7258376	19.4967	0.0905	19.0662	0.1145	18.8432	0.2876	-43.8	0.278	0	0.00
143	48.4991438	-65.7262463	19.3742	0.0878	19.0560	0.1232	18.4916	0.2262	71.7	0.064	0	0.06
144	48.7341141	-65.7257959	19.4934	0.0765	18.7681	0.0736	17.9069	0.1026	-85.5	0.116	0	0.01
145	48.6001900	-65.7263442	19.8110	0.1255	18.7501	0.0895	17.7159	0.1067	-89.4	0.262	0	0.11
146	48.6990197	-65.7266139	18.1296	0.0277	17.4253	0.0266	17.2011	0.0657	-12.7	0.035	0	0.66
147	48.6084813	-65.7268687	19.5634	0.1034	18.6274	0.0825	18.0939	0.1557	-14.5	0.262	0	0.54
148	48.6887659	-65.7266477	19.1861	0.0661	18.4750	0.0644	17.6445	0.0923	-1.5	0.100	0	0.43
150	48.6576520	-65.7305182	19.6458	0.1080	18.9624	0.1087	18.6757	0.2575	-89.0	0.268	0	0.56
155	48.7401347	-65.7343932	18.0638	0.0329	17.7118	0.0440	17.8315	0.1507	-57.5	0.138	0	0.61
157	48.6601684	-65.7365278	18.1084	0.0386	17.4228	0.0384	16.6741	0.0593	34.3	0.164	0	0.01
158	48.7383039	-65.7373938	19.5888	0.0678	19.2042	0.0882	18.4717	0.1383	-74.9	0.206	0	0.77
159	48.5411792	-65.7385119	19.0923	0.0595	18.5625	0.0683	17.9922	0.1242	-66.5	0.086	0	0.67

Figure A.54: Catalogue for IRSF p0p1 (cont.)

160	48.7501652	-65.7389939	17.2868	0.0368	16.8271	0.0455	16.6064	0.1146	43.6	0.199	0	0.00
161	48.5794736	-65.7394752	19.2068	0.0934	18.9155	0.1348	19.2889	0.5872	-49.8	0.320	0	0.09
163	48.5297077	-65.7410028	18.6688	0.0522	17.8680	0.0469	17.2645	0.0827	-63.1	0.121	0	0.23
164	48.6188824	-65.7411613	18.6960	0.0438	18.2442	0.0536	17.4411	0.0787	-56.6	0.174	0	0.01
166	48.6548869	-65.7414308	18.7444	0.0548	18.3105	0.0688	17.2935	0.0832	-58.4	0.146	0	0.13
168	48.6795610	-65.7424817	19.3309	0.0794	18.6279	0.0782	17.7513	0.1077	-1.4	0.183	0	0.04
171	48.6887449	-65.7442436	19.2902	0.0891	18.5952	0.0886	17.9905	0.1567	-72.3	0.214	0	0.00
172	48.6760812	-65.7450946	17.8302	0.0249	16.9481	0.0205	16.1598	0.0302	87.6	0.413	0	0.01
173	48.4812525	-65.7463439	18.4263	0.0479	17.9914	0.0600	17.6717	0.1377	67.6	0.048	0	0.62
174	48.5602228	-65.7468931	19.0106	0.0744	17.8524	0.0485	17.2592	0.0863	2.2	0.131	0	0.03
175	48.4917791	-65.7488851	18.7019	0.0658	18.2211	0.0796	17.2772	0.1031	4.6	0.144	0	0.01
177	48.6902815	-65.7489175	19.1889	0.0595	18.8270	0.0793	18.3137	0.1520	86.4	0.111	0	0.59
179	48.6664321	-65.6260340	19.3551	0.0584	18.4595	0.0478	18.0254	0.0978	11.1	0.209	0	0.82
182	48.5718027	-65.6308856	18.4457	0.0494	17.3861	0.0351	16.6272	0.0537	74.9	0.453	0	0.01

Figure A.55: Catalogue for IRSF p0p1 (cont.)

4	48.9069713	-65.7508258	17.2994	0.0174	16.6127	0.0166	16.1680	0.0343	-21.2	0.130	0	0.04
8	49.0459633	-65.7517818	18.8458	0.0696	18.5080	0.0940	17.2611	0.0949	55.7	0.190	16	0.60
10	48.9250723	-65.7529973	19.3618	0.0508	18.6241	0.0466	18.8643	0.1812	3.8	0.322	24	0.67
11	48.9165591	-65.6297296	18.9654	0.0688	18.4098	0.0760	17.5797	0.1124	2.6	0.147	0	0.03
13	48.8663041	-65.6246935	19.7054	0.0651	18.4709	0.0386	18.3719	0.1092	80.2	0.384	0	0.51
14	48.9492652	-65.6248389	19.8566	0.0712	19.6329	0.1047	20.5842	0.7925	13.6	0.251	0	0.52
15	48.8612397	-65.6304910	19.5269	0.1215	19.3534	0.1917	18.1819	0.2078	-37.5	0.281	0	0.00
16	49.0390018	-65.6239180	18.5091	0.0551	18.5217	0.1024	98.9104	99.0000	63.8	0.439	24	0.02
17	48.9432659	-65.6313224	19.2761	0.0965	19.0542	0.1452	17.9370	0.1654	-51.7	0.369	0	0.00
18	48.8922090	-65.6241416	19.5370	0.0915	19.1287	0.1157	98.9104	99.0000	-87.1	0.158	16	0.63
19	48.8722285	-65.6349325	18.0941	0.0650	17.5533	0.0733	17.5301	0.2282	-27.9	0.251	0	0.02
20	49.0434544	-65.6351949	17.3591	0.0298	16.7011	0.0299	15.9049	0.0455	-80.7	0.269	16	0.01
22	48.8802487	-65.6387243	19.4867	0.1532	20.3258	0.6152	98.9104	99.0000	-21.0	0.545	1	0.00
23	48.9275748	-65.6399701	18.1839	0.0319	17.4443	0.0294	16.5396	0.0402	19.0	0.047	0	0.09
24	48.8887485	-65.6407206	18.9195	0.0904	19.4984	0.2845	19.1982	0.6880	-84.1	0.240	0	0.00
25	48.8642440	-65.6413166	19.4892	0.0821	18.6019	0.0669	18.1287	0.1369	-89.1	0.167	0	0.70
26	48.8863211	-65.6415596	19.0125	0.0995	18.3612	0.1013	17.3534	0.1276	58.6	0.187	0	0.12
27	48.7325019	-65.6425149	18.6823	0.0618	19.0426	0.1580	18.3621	0.2689	33.7	0.142	16	0.28
28	48.8889172	-65.6431263	18.1068	0.0600	18.3030	0.1327	17.5026	0.2025	-76.2	0.424	2	0.00
32	49.0347229	-65.6439442	18.0228	0.0398	17.4485	0.0430	16.4825	0.0561	74.1	0.298	0	0.01
33	48.7322307	-65.6453184	19.3003	0.0901	98.9232	99.0000	98.9104	99.0000	-44.0	0.249	0	0.00
35	48.8256859	-65.6462936	15.5745	0.0057	14.8978	0.0053	14.3625	0.0098	-11.8	0.415	0	0.03
36	48.8885781	-65.6455993	19.4548	0.1078	22.2171	2.5275	98.9104	99.0000	-17.6	0.143	0	0.07
38	48.7318849	-65.6465504	19.2678	0.0875	20.0822	0.3403	98.9104	99.0000	33.8	0.214	16	0.07
40	48.7571627	-65.6480775	18.0966	0.0359	17.2328	0.0297	16.4589	0.0460	77.7	0.016	0	0.02
42	48.7646310	-65.6480629	19.9731	0.0892	19.2246	0.0821	19.4861	0.3291	-60.3	0.238	0	0.53
43	48.9487577	-65.6479162	19.7291	0.0701	19.1768	0.0767	18.6038	0.1428	-87.5	0.045	0	0.64
45	48.7412996	-65.6515154	16.8014	0.0130	16.0888	0.0121	15.4867	0.0215	-52.5	0.415	0	0.03
46	49.0449377	-65.6505592	19.3644	0.0942	20.4448	0.4683	18.9171	0.3661	17.6	0.284	16	0.58
47	48.8074569	-65.6523313	19.0021	0.0552	18.6683	0.0740	18.2357	0.1573	78.6	0.082	0	0.62
55	48.7578146	-65.6549501	19.3525	0.0646	18.8829	0.0766	18.8788	0.2410	0.0	0.256	0	0.85
59	49.0452632	-65.6563007	18.3737	0.0572	17.9777	0.0733	17.2307	0.1172	-70.8	0.552	16	0.02
60	48.9095962	-65.6566858	19.6839	0.0961	19.2951	0.1236	19.0699	0.3190	-80.3	0.159	0	0.36
61	48.8925011	-65.6580919	18.4744	0.0439	17.5420	0.0342	16.7506	0.0521	-26.7	0.109	0	0.18
63	49.0453020	-65.6581566	19.1649	0.0789	18.9974	0.1244	20.1788	1.1732	10.8	0.397	16	0.26
64	48.7308384	-65.6593981	19.0478	0.0635	18.6928	0.0839	18.0385	0.1458	-64.2	0.019	24	0.14
65	48.7321993	-65.6612984	18.0433	0.0477	18.9249	0.1970	18.1108	0.2968	-89.4	0.546	16	0.00
66	48.8887669	-65.6612853	18.8383	0.0834	21.1564	1.2992	18.0350	0.2343	51.3	0.553	0	0.00
69	48.7479856	-65.6634926	17.2657	0.0185	16.6194	0.0184	16.3969	0.0467	-36.9	0.145	0	0.02
71	48.8884351	-65.6644078	18.5874	0.0676	19.5193	0.2934	18.3260	0.3120	-81.6	0.551	0	0.01
73	48.8791040	-65.6659904	19.5731	0.1138	18.9818	0.1222	17.9884	0.1559	18.4	0.117	0	0.33
74	49.0408085	-65.6659422	19.1110	0.0797	18.2927	0.0694	17.1349	0.0760	-1.2	0.282	0	0.77
75	48.8000820	-65.6679118	18.0308	0.0483	17.8009	0.0720	17.6791	0.2047	67.9	0.268	0	0.00
76	48.8386106	-65.6678444	18.8041	0.0431	18.2878	0.0485	18.4300	0.1739	57.2	0.093	0	0.87
77	48.9885447	-65.6679665	16.1481	0.0091	15.3908	0.0081	14.7171	0.0135	30.3	0.418	0	0.03
79	48.7527535	-65.6689893	19.2144	0.0853	18.1653	0.0602	17.5505	0.1083	72.4	0.183	0	0.07
80	48.8443998	-65.6688083	19.4456	0.0851	18.9355	0.0980	18.2959	0.1726	-38.0	0.318	0	0.59
81	48.8888002	-65.6688315	18.8099	0.0706	18.8014	0.1290	19.4030	0.7142	73.6	0.542	0	0.02
82	48.8470089	-65.6695927	18.7014	0.0522	18.3666	0.0702	17.8099	0.1333	62.7	0.214	3	0.87

Figure A.56: Catalogue for IRSF p1p1

83	48.8462149	-65.6704815	18.3969	0.0565	17.9086	0.0665	17.0986	0.1003	80.9	0.383	3	0.18
84	48.7320782	-65.6703682	18.3215	0.0543	18.6851	0.1393	17.6395	0.1695	-79.5	0.266	16	0.00
86	48.9932424	-65.6704885	19.1072	0.0538	18.6079	0.0619	18.2241	0.1372	20.5	0.068	0	0.85
87	48.7684063	-65.6722045	18.9288	0.0503	18.0875	0.0425	17.3203	0.0661	65.6	0.153	0	0.04
89	48.7841244	-65.6732583	19.0097	0.0707	18.1375	0.0585	17.2103	0.0791	-67.5	0.191	0	0.01
90	48.7315403	-65.6753683	18.2030	0.0470	18.7866	0.1472	18.1448	0.2596	89.6	0.470	16	0.00
91	48.8882465	-65.6751959	18.1079	0.0573	18.3934	0.1374	17.6830	0.2277	72.9	0.315	0	0.00
92	48.8794491	-65.6757123	19.5426	0.1107	20.4774	0.4825	20.4556	1.5083	89.7	0.389	0	0.62
93	48.9784945	-65.6755117	19.4851	0.0828	18.4742	0.0603	17.5116	0.0788	-40.7	0.145	0	0.28
94	48.8295556	-65.6761493	19.1818	0.0868	18.5551	0.0901	17.5986	0.1188	-67.8	0.385	0	0.00
95	48.7318899	-65.6769605	18.2438	0.0481	18.6377	0.1266	17.8355	0.1926	76.8	0.620	16	0.00
96	48.7459552	-65.6775315	19.4306	0.0885	18.2842	0.0571	17.3912	0.0795	15.8	0.420	0	0.22
97	48.7682454	-65.6785933	18.6815	0.0630	17.6653	0.0458	16.7457	0.0623	-88.5	0.113	0	0.01
99	48.9214471	-65.6792639	19.2841	0.0626	18.5596	0.0588	17.7067	0.0848	41.3	0.173	0	0.18
100	49.0390721	-65.6787446	19.6500	0.1186	19.1485	0.1382	19.0748	0.4108	-51.3	0.177	0	0.62
101	49.0451037	-65.6790557	18.8352	0.0625	19.2918	0.1742	18.0772	0.1815	-89.7	0.634	0	0.61
102	49.0271635	-65.6795596	19.4986	0.0953	18.7937	0.0920	18.0004	0.1408	81.6	0.517	0	0.00
103	48.7319888	-65.6805784	18.7815	0.0611	19.7504	0.2728	17.7854	0.1427	-89.6	0.642	0	0.39
104	48.8494091	-65.6811116	19.1290	0.0571	18.4958	0.0582	17.9928	0.1157	-67.4	0.152	0	0.89
106	48.7318503	-65.6822317	19.3593	0.0844	20.0081	0.2813	19.0566	0.3734	-88.1	0.205	16	0.49
107	48.8021768	-65.6822719	18.9847	0.0499	18.5668	0.0617	18.4799	0.1796	24.1	0.058	0	0.89
108	48.7874119	-65.6843962	17.2796	0.0182	16.5171	0.0162	15.8949	0.0286	-71.8	0.350	0	0.02
109	48.9049490	-65.6836765	18.6567	0.0431	18.0080	0.0432	17.1955	0.0646	-83.4	0.198	0	0.05
111	48.7313670	-65.6856164	18.7980	0.0584	19.0228	0.1314	18.4043	0.2365	80.6	0.325	17	0.22
112	48.9807845	-65.6852492	18.4973	0.0551	17.6739	0.0477	16.9591	0.0783	-0.9	0.057	0	0.06
113	48.7319888	-65.6864417	18.5130	0.0556	19.3488	0.2196	19.1615	0.5889	37.3	0.139	17	0.01
114	49.0440840	-65.6864301	19.1469	0.0921	18.4808	0.0924	17.4051	0.1092	80.8	0.116	2	0.41
115	49.0459024	-65.6863632	19.3675	0.0904	19.2118	0.1443	17.8964	0.1369	-40.7	0.582	18	0.62
116	48.7314302	-65.6873832	18.6072	0.0508	19.1191	0.1482	20.2097	1.2869	70.8	0.123	19	0.01
117	48.7314896	-65.6879661	19.0965	0.0718	19.3664	0.1688	20.5654	1.6197	-71.8	0.363	19	0.15
119	48.8573751	-65.6882845	18.4443	0.0479	18.0186	0.0593	17.3621	0.1028	-60.6	0.210	0	0.02
125	48.8617581	-65.6902172	18.5801	0.0370	18.1072	0.0433	18.0114	0.1245	-75.6	0.109	0	0.86
126	48.9351248	-65.6902330	18.5787	0.0489	17.9828	0.0518	17.3702	0.0933	-50.0	0.299	0	0.03
127	49.0454130	-65.6903577	19.2531	0.0887	20.3526	0.4485	18.8382	0.3549	-60.0	0.692	0	0.51
128	48.8885268	-65.6926513	17.9164	0.0504	17.8863	0.0905	17.0065	0.1282	87.8	0.634	0	0.00
129	48.9204058	-65.6921043	19.4523	0.0856	18.8578	0.0913	18.8451	0.2859	-63.7	0.187	0	0.53
130	48.8121451	-65.6932578	18.3033	0.0436	17.6569	0.0442	16.9114	0.0705	60.3	0.083	0	0.22
131	48.9136252	-65.6932396	18.2783	0.0419	17.4839	0.0370	16.6574	0.0548	82.4	0.065	0	0.08
132	48.8884814	-65.6958575	18.6085	0.0566	18.8017	0.1239	17.7632	0.1517	-89.5	0.671	0	0.01
133	49.0469918	-65.6965292	16.5198	0.0123	16.0318	0.0141	15.7547	0.0340	-72.6	0.268	24	0.88
134	48.7679781	-65.6967717	19.4067	0.0834	18.5993	0.0732	17.7072	0.1022	-17.4	0.329	0	0.21
135	49.0189087	-65.6965490	19.7566	0.0907	19.5941	0.1431	18.9434	0.2497	-74.2	0.288	0	0.66
136	48.8831449	-65.6979202	18.6843	0.0730	18.8553	0.1575	17.9254	0.2133	-33.9	0.166	0	0.00
138	48.7823040	-65.6995946	19.1744	0.0774	18.5303	0.0789	17.6496	0.1113	78.9	0.256	0	0.03
139	48.7521011	-65.6997728	19.0286	0.0712	18.9046	0.1167	18.5437	0.2661	6.3	0.102	0	0.79
140	48.8887632	-65.7002472	18.9337	0.0759	18.8628	0.1310	18.5157	0.3029	83.7	0.404	0	0.00
141	48.7321424	-65.7013662	18.5099	0.0589	18.7254	0.1320	18.9664	0.5244	64.0	0.387	16	0.02
142	48.8825284	-65.7009024	19.7228	0.1168	19.2432	0.1388	20.7999	1.8491	-89.6	0.256	0	0.49
143	48.7948889	-65.7013530	19.8949	0.0737	19.4626	0.0898	19.0776	0.1986	-74.2	0.268	0	0.56

Figure A.57: Catalogue for IRSF p1p1 (cont.)

144	49.0454905	-65.7007490	19.4320	0.0947	23.0073	4.6765	19.4547	0.5668	29.8	0.517	0	0.64
145	48.8522748	-65.7016060	18.9996	0.0705	19.1378	0.1470	18.6515	0.2989	-85.7	0.028	0	0.53
146	48.7397312	-65.7022971	19.0801	0.0546	18.0719	0.0397	17.5687	0.0785	-20.0	0.236	0	0.10
147	48.8887614	-65.7020388	18.5107	0.0711	18.8398	0.1776	18.3722	0.3680	-67.4	0.330	0	0.00
149	48.9372172	-65.7024031	18.4899	0.0629	18.3954	0.1063	17.5052	0.1491	68.1	0.472	0	0.07
151	48.9882843	-65.7025013	17.6196	0.0199	16.9772	0.0197	16.3130	0.0335	-81.4	0.094	0	0.34
152	48.8885677	-65.7040441	18.8784	0.0839	18.6219	0.1225	18.1728	0.2580	-32.5	0.259	0	0.01
153	48.7317257	-65.7050938	19.4244	0.0843	19.1591	0.1214	18.8024	0.2777	-68.8	0.447	16	0.20
154	48.9797017	-65.7048137	19.2136	0.0778	18.8247	0.1000	19.1931	0.4455	59.0	0.075	0	0.75
155	49.0455280	-65.7045428	19.1717	0.0834	19.1879	0.1559	18.0511	0.1744	89.4	0.208	0	0.10
156	48.7318719	-65.7060310	19.3165	0.0816	19.2971	0.1472	18.8974	0.3239	-41.2	0.577	16	0.03
157	48.7695009	-65.7064124	18.9316	0.0737	18.0132	0.0586	17.5711	0.1236	39.4	0.101	0	0.01
160	48.8711629	-65.7071937	18.8451	0.0509	17.9927	0.0426	17.3430	0.0739	-75.0	0.180	0	0.51
161	49.0038422	-65.7073977	19.5076	0.0637	18.9511	0.0694	19.9516	0.5481	78.3	0.294	0	0.71
163	48.9367296	-65.7079831	19.4108	0.0951	19.5423	0.1976	24.8381	82.5482	73.6	0.187	0	0.31
164	49.0358038	-65.7079414	18.5895	0.0469	18.3576	0.0691	18.3120	0.2098	-86.3	0.158	0	0.80
165	49.0242338	-65.7081650	18.5013	0.0402	18.2227	0.0564	17.9437	0.1378	-88.6	0.108	0	0.81
167	48.7315859	-65.7105723	18.0964	0.0441	18.1698	0.0864	18.2101	0.2851	-80.3	0.514	24	0.00
168	48.8737375	-65.7099163	19.9119	0.0975	19.6424	0.1395	19.3388	0.3348	0.3	0.191	0	0.63
169	48.9368795	-65.7100562	19.2997	0.0882	19.2492	0.1550	19.2456	0.4916	73.6	0.096	0	0.39
170	48.7775818	-65.7106489	19.7334	0.1210	19.2588	0.1446	18.9234	0.3376	-74.8	0.319	0	0.01
172	48.8057098	-65.7112794	19.1477	0.0953	19.3277	0.2077	18.6592	0.3577	-77.5	0.371	0	0.00
173	48.8408197	-65.7114157	18.5520	0.0371	18.2500	0.0506	18.4058	0.1839	81.7	0.108	0	0.81
174	48.9866171	-65.7114733	17.3468	0.0234	16.4413	0.0186	15.7368	0.0306	-81.2	0.171	0	0.02
175	48.7314313	-65.7120065	19.3587	0.0759	20.2962	0.3283	22.2329	6.2240	58.5	0.454	24	0.55
176	49.0267724	-65.7118360	18.0228	0.0249	17.4143	0.0255	16.9972	0.0542	80.2	0.107	0	0.88
177	48.7320668	-65.7130509	18.7843	0.0613	19.5621	0.2295	19.1477	0.4992	6.0	0.402	16	0.00
178	48.9052947	-65.7130236	18.9383	0.0543	18.4671	0.0643	18.3604	0.1841	-88.8	0.127	0	0.89
179	48.9409409	-65.7131364	17.6937	0.0282	16.9378	0.0257	16.2632	0.0435	-85.4	0.133	0	0.14
181	49.0454690	-65.7131910	18.8113	0.0678	20.2126	0.4517	17.6645	0.1382	-80.0	0.530	0	0.63
182	48.7315991	-65.7155751	18.4297	0.0538	18.2742	0.0856	18.6030	0.3680	-67.3	0.537	26	0.01
183	49.0005476	-65.7140854	19.4819	0.0693	18.7529	0.0649	17.8428	0.0888	17.5	0.128	0	0.23
184	48.7851156	-65.7164108	19.3232	0.0845	18.1797	0.0547	17.7073	0.1119	-90.0	0.207	0	0.38
185	48.7319817	-65.7178061	18.8939	0.0622	20.2432	0.3932	19.1934	0.4771	-47.5	0.141	16	0.53
186	48.8551092	-65.7188688	19.1241	0.0680	18.1924	0.0532	17.7087	0.1078	-89.7	0.084	0	0.28
187	48.9064897	-65.7187719	18.8819	0.0536	18.5834	0.0743	18.3455	0.1889	-28.1	0.049	0	0.78
188	48.9277986	-65.7190552	18.9474	0.0702	18.3416	0.0741	18.1410	0.1954	-74.2	0.036	0	0.85
189	48.8678363	-65.7193411	19.0448	0.0625	18.8954	0.0996	18.5469	0.2294	46.4	0.072	0	0.87
190	48.7320087	-65.7199125	18.6688	0.0572	19.0560	0.1496	18.6787	0.3365	-79.7	0.395	19	0.03
191	48.7316488	-65.7206074	19.3022	0.0798	19.5554	0.1848	19.4234	0.5208	63.9	0.155	19	0.45
192	49.0134675	-65.7194632	18.4165	0.0336	17.7780	0.0338	17.6873	0.0973	-83.7	0.125	0	0.89
193	48.8877141	-65.7205796	18.2371	0.0793	17.5412	0.0776	16.9669	0.1457	2.1	0.526	0	0.00
195	48.9498533	-65.7220252	18.1415	0.0296	17.3006	0.0248	16.5872	0.0404	-80.2	0.250	0	0.02
196	48.7318568	-65.7242615	18.4034	0.0487	18.3531	0.0852	18.5572	0.3264	-74.9	0.504	16	0.00
198	48.9372227	-65.7243176	17.9838	0.0317	17.4083	0.0340	16.8041	0.0615	-59.0	0.304	0	0.01
199	48.9832674	-65.7238767	19.8463	0.0952	19.3600	0.1118	18.4021	0.1469	0.6	0.241	0	0.60
201	48.7687334	-65.7255207	19.6401	0.1010	19.5489	0.1708	18.3070	0.1735	40.9	0.038	0	0.63
202	48.8323665	-65.7254524	19.2991	0.0882	18.5632	0.0828	17.7328	0.1224	-64.2	0.212	0	0.09
203	48.7333704	-65.7258622	18.3704	0.0569	17.8588	0.0655	17.7899	0.1953	8.1	0.475	16	0.00

Figure A.58: Catalogue for IRSF p1p1 (cont.)

204	48.7901719	-65.7258960	19.6660	0.0928	18.5683	0.0626	17.7543	0.0936	81.4	0.047	0	0.69
207	48.7336140	-65.7299187	16.7385	0.0118	16.4766	0.0161	16.2764	0.0417	40.6	0.195	16	0.84
209	48.8887116	-65.7300128	18.7286	0.0691	18.9368	0.1540	18.2576	0.2624	80.4	0.403	0	0.01
210	48.8361674	-65.7309579	18.7863	0.0688	18.2029	0.0743	17.5393	0.1280	80.1	0.438	0	0.59
211	48.8883671	-65.7318300	18.7575	0.0920	18.6950	0.1609	18.6024	0.4707	-78.4	0.222	0	0.00
212	48.8705798	-65.7329576	17.9338	0.0329	17.1388	0.0290	16.3255	0.0433	-88.4	0.130	0	0.01
213	48.9289235	-65.6252887	19.1581	0.0852	18.5320	0.0885	18.0062	0.1732	-88.1	0.418	0	0.10
214	48.9471113	-65.7328435	17.9394	0.0249	17.3350	0.0256	17.0928	0.0640	-61.6	0.225	0	0.56
216	48.8995264	-65.7336273	19.0730	0.0756	18.0924	0.0567	17.8682	0.1460	68.5	0.093	0	0.30
217	48.7395280	-65.7345068	18.0834	0.0269	17.9360	0.0418	17.6970	0.1057	-80.0	0.108	0	0.88
219	48.9160293	-65.7353139	19.7311	0.1021	19.3750	0.1355	19.2621	0.3878	-74.3	0.208	0	0.65
220	48.7320697	-65.7369437	19.2819	0.0777	19.2420	0.1374	18.9775	0.3424	-88.9	0.270	16	0.51
221	48.7715759	-65.7371669	19.1600	0.0783	18.6951	0.0940	18.0144	0.1596	-48.7	0.101	0	0.17
223	48.7376861	-65.7375337	19.4109	0.0618	19.1904	0.0916	19.1879	0.2887	-42.4	0.199	0	0.55
224	48.9670328	-65.7370375	19.2065	0.0551	18.7819	0.0677	18.2256	0.1282	44.5	0.086	0	0.36
226	48.7491231	-65.7392130	17.4263	0.0397	16.7569	0.0397	16.1856	0.0745	40.2	0.076	0	0.00
229	48.7690138	-65.7399145	18.5894	0.0387	18.1480	0.0467	17.8126	0.1079	-85.4	0.172	0	0.32
230	48.8031519	-65.7396752	18.8498	0.0567	18.3228	0.0640	17.5456	0.0993	48.9	0.028	0	0.53
231	48.9259190	-65.7392741	19.6648	0.1000	18.7456	0.0794	18.1975	0.1519	-39.5	0.326	0	0.01
232	49.0457091	-65.7412968	19.0143	0.0493	18.6943	0.0665	18.1836	0.1313	73.8	0.162	0	0.46
234	48.9581291	-65.7435434	18.9053	0.0620	18.2427	0.0620	18.6615	0.2883	60.6	0.186	0	0.03
236	48.8589099	-65.7452462	17.6977	0.0224	16.9295	0.0200	16.4661	0.0407	-43.2	0.110	0	0.80
237	49.0100950	-65.7451461	18.6268	0.0644	18.3010	0.0879	18.1534	0.2439	-30.9	0.024	0	0.14
238	49.0212815	-65.7456042	19.4967	0.1080	19.0956	0.1381	18.8633	0.3546	20.7	0.123	0	0.48
239	48.8883437	-65.7470793	18.0114	0.0542	17.8659	0.0876	18.5307	0.5138	-86.2	0.681	1	0.00
240	48.9553619	-65.7476724	18.3385	0.0382	17.4521	0.0309	16.7756	0.0522	85.3	0.265	0	0.01
241	49.0246475	-65.7485377	19.6980	0.1020	19.6526	0.1799	18.8652	0.2773	89.7	0.172	0	0.67
243	48.7981333	-65.7504102	19.5856	0.0951	18.9307	0.0960	19.2331	0.4021	-46.1	0.017	0	0.67
244	49.0393485	-65.6270337	18.7947	0.0660	19.1700	0.1711	18.3772	0.2627	-31.9	0.231	2	0.64
246	49.0305571	-65.6272739	19.4940	0.0958	19.4757	0.1733	18.5269	0.2304	-89.4	0.448	0	0.69
248	48.9983677	-65.6293332	19.5759	0.0923	18.9950	0.0997	19.3812	0.4507	-89.4	0.330	0	0.51
249	49.0040345	-65.6292677	19.9193	0.0819	18.8825	0.0580	18.1926	0.0967	-19.1	0.129	0	0.48

Figure A.59: Catalogue for IRSF p1p1 (cont.)

2	138.9032746	-70.0416766	13.9904	0.0024	13.6674	0.0027	13.5218	0.0071	62.3	0.373	18	0.86
6	138.9408628	-70.0388849	15.5920	0.0068	15.0913	0.0071	14.8978	0.0184	-78.5	0.349	0	0.39
10	139.0653110	-70.0408409	17.4456	0.0234	16.9729	0.0261	16.9395	0.0794	55.3	0.183	0	0.80
11	138.9630692	-70.0419830	17.8998	0.0307	17.5449	0.0381	17.4112	0.1062	-77.1	0.108	16	0.79
12	139.0219864	-70.0423444	16.9105	0.0172	16.4621	0.0195	15.9319	0.0375	-67.7	0.339	18	0.76
14	138.8802895	-70.0422563	18.8283	0.0463	18.3684	0.0522	18.6980	0.2222	-76.0	0.168	0	0.50
20	138.9511127	-70.0433456	17.9025	0.0255	17.4274	0.0281	17.2486	0.0745	-6.9	0.288	24	0.88
21	138.9734509	-70.0435349	19.2091	0.0615	18.5453	0.0579	18.3251	0.1490	-0.1	0.368	24	0.45
22	138.9249993	-69.9242629	17.0343	0.0338	16.3531	0.0316	15.7822	0.0594	85.1	0.627	17	0.01
23	138.8847253	-69.9208634	17.3987	0.0305	17.1691	0.0429	17.4012	0.1683	-29.5	0.287	24	0.18
24	138.8885510	-69.9205696	18.7711	0.0564	19.0405	0.1250	19.7933	0.7944	16.5	0.368	25	0.49
27	139.1109595	-69.9246858	11.7115	0.0010	11.4765	0.0013	11.4413	0.0039	82.5	0.810	27	0.62
28	139.1296566	-69.9209025	16.4917	0.0098	16.1554	0.0118	16.0354	0.0325	-25.6	0.332	19	0.62
29	139.1286106	-69.9219168	15.8040	0.0082	15.2431	0.0083	15.0513	0.0214	-40.9	0.427	19	0.02
30	138.9302695	-69.9232273	18.5104	0.0600	17.8866	0.0591	17.9802	0.2041	-80.8	0.187	0	0.48
31	139.0955328	-69.9237317	18.6634	0.0577	18.1679	0.0637	17.4666	0.1060	-54.5	0.302	0	0.46
32	139.1330456	-69.9244237	17.9995	0.0309	17.3010	0.0280	17.0803	0.0717	-39.0	0.043	0	0.65
34	138.9296762	-69.9248597	17.2210	0.0334	16.6613	0.0348	16.3005	0.0793	-26.6	0.153	1	0.45
35	138.8674327	-69.9260602	17.1025	0.0274	16.6641	0.0318	16.4642	0.0838	-84.8	0.386	0	0.22
37	138.8879946	-69.9260194	18.0227	0.0471	17.6478	0.0582	17.3346	0.1385	54.7	0.094	0	0.59
39	139.0146144	-69.9262582	18.7222	0.0736	18.1241	0.0743	18.0293	0.2163	80.5	0.052	0	0.50
41	139.1585951	-69.9275674	17.6874	0.0285	17.3458	0.0359	17.1422	0.0940	-86.8	0.496	0	0.36
43	138.8665060	-69.9278305	18.0972	0.0478	17.3601	0.0425	16.4370	0.0576	-75.5	0.170	0	0.51
47	139.1559319	-69.9304716	17.0701	0.0303	16.5208	0.0319	16.6968	0.1191	54.5	0.463	3	0.44
49	138.9286101	-69.9302785	18.8936	0.0727	18.2603	0.0710	18.2100	0.2150	-46.1	0.143	0	0.49
50	138.9524507	-69.9306353	17.8379	0.0336	17.4302	0.0399	17.6113	0.1489	-59.5	0.071	0	0.75
51	138.8391170	-69.9308615	17.3344	0.0300	17.1441	0.0437	16.6360	0.0869	-74.3	0.149	0	0.80
55	139.0307245	-69.9308922	18.8280	0.0744	18.2588	0.0771	18.3418	0.2642	-73.2	0.213	0	0.49
57	138.8976443	-69.9313941	17.2363	0.0343	16.4277	0.0286	15.8173	0.0516	-24.9	0.261	0	0.44
58	139.1357291	-69.9312745	18.6005	0.0507	17.9347	0.0478	17.9279	0.1499	-75.0	0.124	0	0.51
59	138.9180925	-69.9313584	18.0433	0.0595	17.5512	0.0663	16.7277	0.0989	-37.8	0.050	0	0.59
60	138.8273817	-69.9317363	17.3279	0.0290	16.9750	0.0364	16.4713	0.0726	-85.5	0.123	0	0.86
61	138.8861413	-69.9321408	17.7423	0.0385	17.1533	0.0391	16.9360	0.1013	-8.3	0.027	0	0.89
62	138.8539799	-69.9323974	17.5997	0.0288	16.7795	0.0235	15.9737	0.0354	-41.2	0.051	0	0.77
63	138.8064411	-69.9326758	17.9643	0.0412	17.7346	0.0580	17.7483	0.1862	-84.3	0.147	16	0.41
65	138.9390355	-69.9338530	17.7953	0.0338	17.4247	0.0416	17.4397	0.1333	-89.0	0.121	0	0.79
66	139.0756072	-69.9340336	17.7942	0.0564	17.3251	0.0643	16.9093	0.1395	-62.7	0.478	1	0.00
67	138.9951602	-69.9337741	18.4272	0.0366	17.7164	0.0328	17.6150	0.0935	-35.9	0.041	0	0.55
70	138.8222400	-69.9339016	18.4478	0.0407	17.8771	0.0416	17.7808	0.1199	-80.3	0.196	0	0.67
71	138.9752149	-69.9342775	17.9627	0.0451	17.6585	0.0594	17.4407	0.1544	-75.7	0.128	0	0.74
72	139.0926294	-69.9346182	18.6529	0.0426	18.0635	0.0427	17.8289	0.1083	-73.3	0.109	0	0.51
77	138.8727503	-69.9359843	18.6145	0.0557	17.8532	0.0483	17.6164	0.1227	-62.9	0.154	0	0.50
78	138.8192759	-69.9361871	18.4941	0.0559	17.6926	0.0468	17.3498	0.1080	-80.8	0.152	0	0.56
79	139.1118285	-69.9371821	17.9338	0.0439	17.5722	0.0549	17.2934	0.1348	-74.3	0.245	3	0.75
80	139.1139232	-69.9389517	16.1760	0.0098	15.7439	0.0110	15.6308	0.0307	-27.3	0.106	2	0.11
85	139.0820887	-69.9370730	18.8453	0.0593	18.4148	0.0693	18.0390	0.1555	89.7	0.192	0	0.48
86	139.1581348	-69.9373554	17.6713	0.0288	17.1265	0.0301	16.7113	0.0649	-68.9	0.155	0	0.82
88	139.0565520	-69.9375771	18.5023	0.0520	18.0059	0.0573	17.9801	0.1773	-58.4	0.065	0	0.61
89	139.0002057	-69.9380462	18.6337	0.0423	17.8720	0.0363	17.7298	0.0999	-16.6	0.047	1	0.50

Figure A.60: Catalogue for A Field p1p0

90	138.9659840	-69.9383417	18.2856	0.0397	17.6775	0.0394	17.2564	0.0843	-86.9	0.118	0	0.55
93	138.8724788	-69.9393171	18.2730	0.0539	17.9352	0.0689	17.7242	0.1802	33.8	0.128	0	0.51
94	139.1513311	-69.9395152	18.3399	0.0531	17.8238	0.0576	17.1118	0.0950	85.5	0.240	0	0.54
98	138.8541198	-69.9400787	17.9613	0.0437	17.3749	0.0445	17.3393	0.1364	-76.2	0.188	0	0.51
99	138.8250700	-69.9408287	18.2888	0.0403	17.6534	0.0390	17.3391	0.0920	-56.2	0.053	0	0.63
100	138.9347205	-69.9413047	17.7537	0.0435	17.3779	0.0538	17.5225	0.1953	75.0	0.163	0	0.17
101	139.1448873	-69.9415275	17.6634	0.0317	17.1202	0.0334	17.0273	0.0967	-64.0	0.042	0	0.88
104	138.8988929	-69.9415294	18.6025	0.0612	18.3111	0.0816	18.6452	0.3523	-75.8	0.110	0	0.55
105	139.1106129	-69.9417937	18.1082	0.0406	17.4516	0.0386	17.2324	0.0997	-56.1	0.099	0	0.47
107	138.9517402	-69.9437496	15.5026	0.0067	15.1325	0.0079	15.0656	0.0229	-83.3	0.404	3	0.88
108	138.8769659	-69.9430614	18.1053	0.0476	17.6706	0.0557	17.0502	0.1000	-65.1	0.233	3	0.64
109	138.8795327	-69.9447650	15.1153	0.0049	14.6863	0.0054	14.5500	0.0145	17.0	0.323	2	0.73
110	138.9008812	-69.9434190	17.5898	0.0334	17.1463	0.0387	17.2080	0.1295	-36.8	0.375	0	0.39
112	139.0255820	-69.9452713	15.9815	0.0148	15.3560	0.0145	14.7416	0.0260	-28.6	0.181	3	0.02
116	139.0081087	-69.9447257	17.7457	0.0409	16.7351	0.0283	16.0016	0.0457	-56.2	0.084	3	0.12
119	139.1059022	-69.9448757	17.7289	0.0492	17.5418	0.0725	17.6185	0.2475	-78.3	0.293	0	0.36
120	138.8278082	-69.9450214	18.6823	0.0666	18.2374	0.0773	18.5354	0.3226	-69.9	0.178	0	0.49
121	138.8603942	-69.9452287	18.2934	0.0382	17.5416	0.0332	17.5966	0.1095	80.1	0.136	0	0.69
123	139.0444325	-69.9464440	17.0591	0.0245	16.4676	0.0247	16.3386	0.0692	63.0	0.258	0	0.21
125	139.1057277	-69.9494746	18.6176	0.1024	19.5973	0.4434	21.4110	7.5197	73.5	0.057	3	0.59
126	139.1294327	-69.9467681	18.2605	0.0370	17.7768	0.0409	17.4365	0.0943	-52.4	0.101	0	0.72
127	139.0686044	-69.9468618	18.5190	0.0687	17.5996	0.0518	16.6624	0.0694	83.6	0.215	0	0.48
128	138.8354419	-69.9477619	16.6884	0.0148	16.2936	0.0175	16.0042	0.0420	-73.6	0.238	0	0.85
129	138.8482186	-69.9473669	18.0414	0.0497	17.3829	0.0474	17.7479	0.2103	-57.1	0.225	0	0.27
131	139.1181063	-69.9476785	18.7782	0.0683	18.2187	0.0713	18.2888	0.2413	-70.7	0.129	0	0.47
132	138.9827118	-69.9490371	17.6179	0.0403	17.1068	0.0440	17.7181	0.2447	-58.0	0.443	0	0.01
133	139.0301878	-69.9485419	18.9104	0.0801	18.5372	0.0995	18.7277	0.3767	-89.9	0.304	0	0.49
137	138.8533211	-69.9515349	17.5544	0.0274	17.1159	0.0316	17.2188	0.1096	-76.1	0.126	3	0.84
138	139.0456801	-69.9489274	18.6905	0.0675	18.1969	0.0749	18.0140	0.2010	-51.5	0.016	0	0.52
139	138.8783283	-69.9492374	18.0272	0.0372	17.5584	0.0419	16.9909	0.0786	-68.7	0.074	0	0.74
140	138.8134923	-69.9490454	18.6646	0.0551	17.8595	0.0459	17.7056	0.1257	-81.7	0.055	0	0.56
141	138.9437034	-69.9500044	18.2439	0.0369	17.4171	0.0299	17.4658	0.0981	-71.4	0.121	0	0.76
143	138.9755175	-69.9506612	19.0232	0.0903	18.6960	0.1171	18.7767	0.4011	-85.8	0.225	0	0.49
145	138.9968274	-69.9512555	18.4803	0.0437	18.0087	0.0490	17.6093	0.1071	-41.1	0.083	0	0.57
147	138.8628723	-69.9519225	17.9738	0.0310	17.3366	0.0298	17.0127	0.0694	-78.9	0.104	0	0.79
149	139.1085503	-69.9531993	17.1656	0.0347	16.8123	0.0439	16.5713	0.1117	-59.8	0.461	0	0.19
150	138.8436684	-69.9537998	16.7307	0.0151	16.4552	0.0199	16.6240	0.0727	-56.0	0.313	0	0.33
151	138.9046394	-69.9532798	18.2223	0.0584	17.9026	0.0761	17.7532	0.2108	-84.6	0.433	3	0.37
152	138.9056514	-69.9544440	17.7996	0.0487	17.4818	0.0636	16.9383	0.1226	-72.2	0.352	3	0.65
153	138.8906936	-69.9535255	18.0547	0.0486	17.5213	0.0520	17.5187	0.1646	-44.0	0.027	0	0.47
154	139.0045851	-69.9534002	18.5979	0.0579	18.1670	0.0679	17.6008	0.1279	-70.4	0.061	0	0.47
155	139.0645380	-69.9541272	16.2712	0.0136	15.6675	0.0135	15.3788	0.0324	40.1	0.221	0	0.82
159	139.0188140	-69.9565281	18.2206	0.0575	17.8508	0.0715	17.3692	0.1460	-77.6	0.248	3	0.58
160	138.8860349	-69.9552383	18.1435	0.0515	17.5622	0.0527	17.3588	0.1387	-87.4	0.209	0	0.64
161	139.0123233	-69.9551247	18.6306	0.0584	18.0195	0.0581	17.9276	0.1689	59.0	0.065	0	0.62
163	138.8773581	-69.9567202	16.1075	0.0100	15.6626	0.0113	15.4260	0.0282	46.5	0.319	0	0.89
167	138.9793770	-69.9563879	18.8498	0.0776	18.4746	0.0962	18.5721	0.3344	-69.5	0.303	0	0.48
170	138.9940625	-69.9574153	18.2674	0.0548	18.0026	0.0750	18.1829	0.2815	-60.3	0.050	0	0.59
171	139.0486660	-69.9578392	18.0784	0.0420	17.5772	0.0461	17.3006	0.1132	-35.2	0.152	0	0.33

Figure A.61: Catalogue for A Field p1p0 (cont.)

172	139.1332834	-69.9589691	18.3764	0.0433	17.9531	0.0508	18.0824	0.1809	-63.0	0.183	0	0.67
175	138.8613416	-69.9596265	18.4246	0.0518	17.9124	0.0563	17.5898	0.1326	-80.8	0.293	3	0.61
177	138.9225161	-69.9603371	16.9560	0.0207	16.3812	0.0211	16.3226	0.0630	59.1	0.257	0	0.02
180	139.1477155	-69.9604267	18.6456	0.0411	17.8505	0.0342	17.0034	0.0494	-83.2	0.276	0	0.51
183	138.8406527	-69.9605925	18.6051	0.0683	18.3279	0.0925	18.3350	0.2960	44.8	0.105	0	0.52
184	139.0007445	-69.9618695	16.8531	0.0181	16.2034	0.0172	16.0800	0.0482	67.7	0.395	2	0.83
185	138.9953230	-69.9631378	16.8729	0.0226	16.3961	0.0253	16.4459	0.0837	-13.7	0.248	3	0.62
186	138.9918557	-69.9633337	17.2587	0.0275	16.6239	0.0267	16.7447	0.0941	-83.9	0.054	3	0.80
187	139.1229562	-69.9616154	18.8989	0.0734	18.2296	0.0694	17.5269	0.1154	-90.0	0.266	0	0.48
188	139.1642250	-69.9624125	17.8860	0.0313	17.7611	0.0479	17.7574	0.1509	-76.9	0.117	16	0.66
189	139.0387899	-69.9672705	17.3978	0.0259	16.7566	0.0249	17.3046	0.1297	-69.4	0.182	3	0.87
190	139.0362727	-69.9633852	15.4142	0.0065	14.7221	0.0058	14.3172	0.0123	-52.0	0.106	3	0.08
193	139.0517906	-69.9631550	17.6042	0.0305	17.1609	0.0352	17.1626	0.1113	-76.7	0.517	0	0.17
197	139.1471510	-69.9633638	18.5198	0.0463	18.1521	0.0571	17.7995	0.1306	-18.6	0.003	0	0.50
199	139.1139523	-69.9639959	18.8688	0.1070	17.8456	0.0735	17.2833	0.1393	4.9	0.148	0	0.07
201	139.0599368	-69.9652886	18.8758	0.0688	18.2180	0.0656	17.4480	0.1025	45.1	0.146	0	0.48
203	138.9533464	-69.9660354	17.5945	0.0307	16.9630	0.0298	16.7861	0.0800	38.1	0.158	0	0.71
206	138.8524057	-69.9671910	16.7990	0.0208	16.3998	0.0250	16.2320	0.0676	88.8	0.273	0	0.36
207	138.9348605	-69.9664851	18.7520	0.0637	18.6728	0.1030	19.5319	0.7216	88.4	0.029	0	0.49
212	138.9401313	-69.9678853	17.7461	0.0266	17.3151	0.0307	17.0091	0.0729	-88.8	0.113	0	0.85
216	138.8076761	-69.9687948	18.5522	0.0410	18.4090	0.0616	18.7097	0.2564	-87.9	0.183	0	0.52
217	138.8467408	-69.9693406	18.2347	0.0587	17.0136	0.0336	16.4520	0.0634	-58.2	0.079	0	0.13
219	138.8401468	-69.9693599	19.0352	0.0860	17.7706	0.0473	16.7749	0.0600	-79.2	0.239	0	0.48
220	139.0494652	-69.9698839	18.5043	0.0572	17.6950	0.0475	17.2946	0.1040	80.8	0.263	0	0.50
221	138.9347850	-69.9703915	17.5366	0.0306	17.1007	0.0356	16.7340	0.0804	-52.3	0.219	0	0.52
224	138.8690861	-69.9717952	18.8202	0.0711	18.4285	0.0866	18.8406	0.4019	-45.1	0.138	0	0.50
227	138.8819515	-69.9723598	18.3045	0.0574	17.7236	0.0589	18.0775	0.2588	-33.6	0.158	0	0.51
230	139.1629068	-69.9731304	18.1303	0.0491	17.7063	0.0581	17.9110	0.2224	87.4	0.176	16	0.63
231	139.0223568	-69.9738027	18.0437	0.0433	17.3622	0.0404	16.8507	0.0798	-57.9	0.174	0	0.74
233	138.9319029	-69.9738644	18.4294	0.0504	18.3933	0.0847	18.3488	0.2581	-88.6	0.144	0	0.69
234	138.8992178	-69.9743286	18.3448	0.0583	17.9705	0.0722	98.9041	99.0000	-71.8	0.111	0	0.51
235	138.9717027	-69.9757101	17.0867	0.0259	16.6210	0.0293	16.4526	0.0795	1.8	0.260	0	0.01
236	139.1493944	-69.9752223	18.9779	0.0781	18.2300	0.0687	17.6391	0.1266	-64.8	0.220	0	0.49
238	139.0003235	-69.9765733	17.5485	0.0374	16.9430	0.0374	16.7442	0.0987	-62.2	0.114	0	0.85
239	139.0064050	-69.9767466	18.1170	0.0440	17.5846	0.0469	17.6918	0.1639	-71.4	0.091	3	0.70
240	139.0066111	-69.9779061	17.3536	0.0317	16.6869	0.0300	16.9744	0.1236	-73.7	0.233	3	0.87
241	138.8458997	-69.9766262	18.1907	0.0360	17.6175	0.0367	17.3717	0.0923	-57.9	0.086	0	0.73
242	139.1312804	-69.9773989	17.8818	0.0388	17.6842	0.0562	18.2270	0.2935	-88.7	0.179	0	0.85
243	139.1623387	-69.9772714	18.1057	0.0515	17.4861	0.0510	20.2102	1.9850	-63.8	0.327	0	0.49
245	138.8044874	-69.9774150	18.9501	0.0576	18.3957	0.0600	18.1206	0.1472	89.8	0.269	24	0.48
246	138.8353795	-69.9782822	16.3072	0.0120	15.8371	0.0133	15.4993	0.0304	-69.3	0.399	0	0.73
250	138.9941498	-69.9797702	17.8129	0.0414	17.5454	0.0565	17.2497	0.1366	-77.3	0.114	3	0.75
257	139.0836104	-70.0289854	12.7338	0.0017	12.4343	0.0021	12.3013	0.0057	-81.6	0.618	19	0.03
259	138.9026233	-69.9809874	17.4994	0.0371	17.1916	0.0488	17.1342	0.1468	82.3	0.156	3	0.23
261	138.9696931	-69.9808553	18.4786	0.0635	18.0839	0.0773	18.6167	0.4007	82.9	0.193	0	0.59
264	138.8557584	-69.9813036	17.8796	0.0295	17.5548	0.0376	17.5285	0.1156	-73.6	0.106	0	0.88
265	138.9237352	-69.9812811	18.8232	0.0778	18.2844	0.0830	18.8726	0.4529	-67.5	0.115	0	0.49
266	138.8416908	-69.9815489	17.8487	0.0378	17.2568	0.0382	17.7246	0.1855	59.8	0.054	1	0.81
267	139.1536214	-69.9822637	16.5875	0.0141	16.0920	0.0153	15.9527	0.0421	14.7	0.251	0	0.58

Figure A.62: Catalogue for A Field p1p0 (cont.)

272	138.9629077	-69.9832499	18.8731	0.0721	18.1306	0.0638	17.8223	0.1522	70.2	0.183	0	0.49
276	139.1493433	-69.9849881	18.3073	0.0365	17.6629	0.0348	17.8465	0.1293	-77.2	0.061	0	0.60
277	139.0426413	-69.9849076	18.8268	0.0634	18.5813	0.0880	18.4720	0.2526	-74.7	0.286	0	0.45
278	139.1620972	-69.9857895	17.7763	0.0309	17.4621	0.0400	17.3973	0.1190	-80.4	0.160	16	0.83
279	138.9915475	-69.9860632	17.9127	0.0369	17.2602	0.0352	17.4618	0.1338	-86.5	0.208	0	0.84
281	138.9851626	-69.9861531	18.8225	0.0668	18.4602	0.0835	17.9314	0.1629	83.2	0.322	0	0.49
282	138.9464218	-69.9869139	18.5971	0.0593	18.0957	0.0653	17.9432	0.1798	-78.6	0.429	0	0.49
283	139.1057665	-69.9880713	15.6716	0.0098	15.0467	0.0095	14.3744	0.0160	-50.7	0.267	1	0.04
284	139.0367207	-69.9883413	16.7142	0.0228	16.1387	0.0234	16.0316	0.0670	-45.6	0.257	0	0.19
285	139.0201664	-69.9875365	18.2583	0.0509	17.6139	0.0492	17.4809	0.1378	84.0	0.068	0	0.49
289	138.9926504	-69.9898309	15.8815	0.0082	15.3045	0.0081	15.1739	0.0220	45.0	0.225	1	0.87
290	138.9760961	-69.9896313	17.8332	0.0365	17.4016	0.0426	17.1123	0.1033	87.7	0.061	0	0.55
293	138.8537166	-69.9908057	17.6472	0.0260	17.3139	0.0328	17.1534	0.0891	-83.7	0.138	0	0.84
294	139.0038828	-69.9908384	17.4113	0.0336	16.7658	0.0324	16.6347	0.0909	-18.5	0.056	0	0.53
296	139.1429552	-69.9912869	18.1496	0.0331	17.7559	0.0396	17.9941	0.1551	78.9	0.109	0	0.65
297	139.1604142	-69.9909451	19.1105	0.0744	18.8635	0.1033	18.7269	0.2892	-73.1	0.122	0	0.48
302	138.8888161	-69.9917866	18.9022	0.0857	18.1609	0.0760	18.1326	0.2352	-30.5	0.005	0	0.53
307	138.8811621	-69.9930352	16.3405	0.0135	15.9688	0.0164	16.0073	0.0532	-44.8	0.149	3	0.31
311	138.9170910	-69.9937989	17.7936	0.0412	17.6064	0.0603	17.3294	0.1486	54.5	0.028	0	0.71
314	138.8591558	-69.9940695	18.2724	0.0612	17.6466	0.0603	18.0752	0.2838	-71.9	0.135	0	0.53
317	139.0715519	-69.9955356	18.1328	0.0397	17.4128	0.0356	17.1540	0.0885	87.3	0.177	0	0.75
318	138.8514856	-69.9958374	17.9288	0.0457	17.0865	0.0369	16.3061	0.0570	-80.9	0.190	0	0.21
320	138.9150383	-69.9353619	13.5671	0.0031	13.3459	0.0043	13.4155	0.0142	-82.0	0.826	19	0.68
321	139.0502158	-69.9967884	18.1393	0.0334	17.5409	0.0333	17.4156	0.0931	-84.7	0.139	0	0.68
325	138.9373993	-69.9972239	18.6689	0.0636	18.3112	0.0798	17.4559	0.1155	-47.4	0.085	0	0.49
326	138.9794149	-69.9975017	18.4588	0.0574	17.8158	0.0556	17.6727	0.1544	-22.8	0.113	0	0.64
327	139.0085913	-69.9976189	18.5394	0.0561	17.8370	0.0513	17.8514	0.1645	-79.9	0.273	0	0.51
329	138.8885335	-69.9988492	18.1498	0.0453	17.7786	0.0561	17.6606	0.1595	-74.7	0.101	0	0.64
330	138.9243598	-70.0007843	15.6793	0.0077	15.1154	0.0077	15.0472	0.0223	88.5	0.402	0	0.86
333	139.1595395	-69.9997107	18.3587	0.0500	17.5023	0.0398	17.4461	0.1193	-78.2	0.124	0	0.47
334	138.9327761	-70.0000961	17.7322	0.0429	17.2693	0.0490	17.1979	0.1455	-53.9	0.193	2	0.64
335	138.9360630	-70.0006758	18.2567	0.0539	17.8366	0.0639	17.4423	0.1412	-46.1	0.210	3	0.50
336	138.8488421	-70.0005528	17.6642	0.0263	17.3235	0.0329	17.4147	0.1127	74.0	0.099	0	0.82
337	138.9163330	-70.0004261	19.1944	0.1005	19.3999	0.2126	18.9504	0.4478	-88.2	0.032	0	0.48
338	138.8065410	-70.0011858	16.8653	0.0167	16.3637	0.0180	16.4146	0.0589	44.4	0.387	24	0.21
339	138.8145495	-70.0009154	18.5516	0.0492	18.0438	0.0536	18.0908	0.1768	-81.5	0.133	0	0.49
340	139.1268871	-70.0012553	18.2181	0.0535	17.5910	0.0525	17.4136	0.1416	89.2	0.168	0	0.70
342	139.1394031	-70.0020068	18.3023	0.0417	17.7936	0.0452	17.6025	0.1198	86.9	0.104	0	0.40
343	138.9027663	-70.0027002	17.6430	0.0468	16.9152	0.0420	16.2036	0.0694	-50.0	0.111	1	0.03
344	138.8255348	-70.0025119	18.4949	0.0542	18.0206	0.0611	17.8814	0.1703	73.4	0.152	0	0.55
348	139.1164366	-70.0043165	18.8831	0.0713	18.5818	0.0943	19.1007	0.4827	-65.7	0.092	0	0.48
349	138.8212762	-70.0048726	17.6146	0.0366	16.8545	0.0318	16.4959	0.0723	-75.3	0.151	0	0.68
350	138.9737756	-70.0046398	18.5131	0.0597	18.3185	0.0870	17.9030	0.1886	69.4	0.188	0	0.49
351	139.1331314	-70.0045778	18.7088	0.0669	17.7929	0.0505	17.2884	0.1006	-44.1	0.141	0	0.49
352	139.0016135	-70.0046583	18.7419	0.0604	18.0164	0.0542	18.1318	0.1904	85.2	0.079	0	0.49
353	139.0573080	-70.0049568	18.4490	0.0439	18.3311	0.0679	18.0747	0.1698	56.5	0.075	3	0.59
354	139.0546485	-70.0056939	17.9185	0.0377	17.2469	0.0354	16.5672	0.0599	38.8	0.222	2	0.72
355	139.1358819	-70.0050052	18.4090	0.0559	17.8178	0.0567	17.7042	0.1619	-50.7	0.114	0	0.52
357	139.0252330	-70.0054141	18.3367	0.0503	17.9672	0.0624	17.5030	0.1291	-62.0	0.132	0	0.57

Figure A.63: Catalogue for A Field p1p0 (cont.)

359	138.9863158	-70.0063017	17.4782	0.0236	17.1255	0.0292	17.0545	0.0862	-88.7	0.082	0	0.70
360	139.0298438	-70.0060825	17.9054	0.0351	17.3913	0.0379	17.2949	0.1095	-10.8	0.280	0	0.11
362	138.8223900	-70.0076095	14.9362	0.0045	14.5833	0.0053	14.5021	0.0150	72.3	0.441	0	0.23
364	138.8782641	-70.0070843	18.3007	0.0435	17.8358	0.0492	17.9035	0.1656	86.0	0.163	0	0.65
365	138.8956544	-70.0073176	17.4564	0.0338	16.9019	0.0354	16.8388	0.1059	88.9	0.109	0	0.81
366	138.8874102	-70.0070052	18.7256	0.0708	18.6545	0.1158	19.8470	1.1039	-88.5	0.112	0	0.49
367	139.0890025	-70.0073533	18.9229	0.0754	18.3066	0.0749	18.2098	0.2172	-73.9	0.210	0	0.48
368	139.0669435	-70.0083353	17.8823	0.0371	17.3788	0.0405	17.5985	0.1568	-85.2	0.149	0	0.82
370	139.1326213	-70.0082313	18.7882	0.0607	17.9694	0.0499	18.0495	0.1697	-89.2	0.182	0	0.50
371	139.0026500	-70.0088732	17.1733	0.0270	16.3955	0.0230	15.5074	0.0321	77.0	0.144	0	0.11
379	138.9625083	-70.0100558	19.1729	0.0787	18.7634	0.0943	18.3125	0.1976	37.4	0.040	0	0.48
381	139.1151431	-70.0109254	17.8785	0.0539	17.4184	0.0618	17.2011	0.1609	-79.6	0.417	0	0.01
383	138.9911197	-70.0111714	17.7526	0.0480	17.2343	0.0522	16.4243	0.0788	-86.5	0.121	0	0.08
385	138.9966508	-70.0122512	16.4643	0.0158	15.7201	0.0138	15.0350	0.0230	-38.5	0.141	0	0.10
387	138.8334100	-70.0120948	17.7626	0.0367	17.3408	0.0433	17.0413	0.1041	-84.1	0.088	0	0.88
388	138.9744186	-70.0122973	18.8580	0.0801	18.2719	0.0819	18.2458	0.2539	-76.2	0.179	0	0.58
390	139.0401813	-70.0132729	17.8660	0.0466	17.3392	0.0502	17.4339	0.1738	-37.6	0.062	3	0.24
393	138.8724753	-70.0136936	17.6483	0.0379	17.2190	0.0445	17.0359	0.1192	66.5	0.086	0	0.31
394	139.1276531	-70.0163332	18.1077	0.0375	17.5753	0.0398	17.3207	0.0994	-61.0	0.103	3	0.61
399	139.1073358	-70.0147884	18.1571	0.0553	17.7206	0.0648	18.8128	0.5622	-80.8	0.061	0	0.41
401	139.0658581	-70.0174986	17.4649	0.0271	16.9276	0.0286	16.7455	0.0763	-47.2	0.166	0	0.67
405	139.0788610	-70.0184935	17.9749	0.0448	17.4970	0.0503	17.2243	0.1242	65.9	0.054	0	0.63
406	138.8251356	-70.0183526	18.9233	0.0679	18.3858	0.0723	18.0288	0.1649	-89.2	0.204	0	0.44
408	138.9911757	-70.0187668	18.5942	0.0630	18.0015	0.0638	18.2943	0.2650	27.7	0.125	0	0.50
409	139.0726363	-70.0193569	17.9801	0.0472	17.3985	0.0484	17.6308	0.1899	87.5	0.187	0	0.74
410	138.8835152	-70.0191324	18.8353	0.0622	18.1744	0.0590	18.1757	0.1869	87.6	0.029	0	0.48
412	138.9341230	-70.0206692	15.4709	0.0065	15.0359	0.0072	14.8565	0.0187	23.2	0.354	0	0.03
413	138.9037080	-70.0208138	17.4656	0.0279	16.9241	0.0294	16.6556	0.0724	-77.7	0.342	1	0.19
414	138.8128386	-70.0206491	17.7689	0.0280	17.2364	0.0295	17.0011	0.0747	-89.1	0.126	0	0.87
415	138.8320731	-70.0207742	17.8974	0.0376	17.4267	0.0423	17.5441	0.1492	-89.1	0.176	0	0.75
416	139.0468540	-70.0211922	17.3057	0.0283	16.8645	0.0328	16.7943	0.0973	-61.0	0.347	0	0.11
417	138.8654515	-70.0206860	18.2509	0.0465	17.9130	0.0592	17.4042	0.1176	-69.4	0.305	0	0.63
418	138.9772132	-70.0211308	17.1922	0.0255	16.8088	0.0310	16.8982	0.1065	-56.9	0.069	1	0.82
419	138.9154228	-70.0218772	17.7894	0.0471	17.6321	0.0713	17.2413	0.1582	-82.5	0.035	0	0.26
420	139.1212856	-70.0220700	17.4636	0.0251	16.7926	0.0234	16.6305	0.0633	-82.4	0.083	0	0.89
422	139.0508684	-70.0227891	18.1991	0.0523	17.7481	0.0603	17.7921	0.1993	73.1	0.086	0	0.19
423	138.8474569	-70.0226442	19.0149	0.0717	18.6099	0.0861	18.1086	0.1723	-9.6	0.015	0	0.48
424	138.8554136	-70.0230982	18.7732	0.0644	18.1646	0.0642	17.8532	0.1529	-42.5	0.152	0	0.49
425	139.1429636	-70.0236773	17.7374	0.0432	17.1890	0.0457	17.7089	0.2337	-55.6	0.107	1	0.21
426	138.8797653	-70.0239336	18.5620	0.0516	17.8048	0.0448	17.4465	0.1018	-74.4	0.143	0	0.55
431	139.1447279	-70.0254769	16.7278	0.0160	16.2653	0.0180	16.2644	0.0562	42.2	0.235	0	0.72
433	138.9541108	-70.0255755	18.2402	0.0440	17.9786	0.0600	17.3985	0.1115	-78.8	0.150	0	0.56
434	139.0221268	-70.0258506	17.6709	0.0387	17.3915	0.0521	16.8045	0.0964	-89.1	0.093	0	0.74
435	139.0521149	-70.0262017	18.2615	0.0507	17.5432	0.0458	17.5297	0.1431	75.6	0.495	0	0.12
436	138.8421821	-70.0266375	16.7407	0.0252	16.5685	0.0375	16.8108	0.1486	66.1	0.550	3	0.34
442	139.0043758	-70.0271505	18.6343	0.0624	18.4426	0.0912	18.2325	0.2389	-75.2	0.191	0	0.49
444	138.8253171	-70.0301366	16.4453	0.0146	16.0447	0.0173	15.9362	0.0491	-61.1	0.097	3	0.60
446	138.9887708	-70.0301116	17.4775	0.0253	16.8885	0.0255	16.5674	0.0596	-50.4	0.416	0	0.68
447	138.9175626	-69.9706600	13.3017	0.0031	13.1782	0.0047	13.1095	0.0139	71.9	0.732	2	0.79

Figure A.64: Catalogue for A Field p1p0 (cont.)

449	138.9301652	-70.0298751	18.1701	0.0508	17.7445	0.0600	17.9428	0.2283	-77.5	0.161	0	0.59
451	138.9799880	-70.0307709	17.6555	0.0323	17.3058	0.0406	17.4427	0.1458	-8.2	0.345	0	0.11
452	139.1613972	-70.0307821	18.6020	0.0518	18.3337	0.0702	19.4401	0.6154	-80.2	0.212	0	0.61
455	139.0330134	-70.0328995	17.9887	0.0412	17.5768	0.0491	17.8957	0.2084	72.7	0.122	0	0.63
456	138.9547254	-70.0337109	18.4454	0.0365	17.8178	0.0353	17.4860	0.0815	-89.1	0.131	0	0.53
457	139.1472957	-70.0336762	18.7476	0.0483	18.0703	0.0449	17.8229	0.1126	-16.1	0.121	0	0.46
459	139.0243319	-70.0364833	17.9033	0.0515	17.6811	0.0734	17.3982	0.1801	40.3	0.083	3	0.18
466	138.8951518	-69.9205905	19.2551	0.0684	19.2459	0.1173	18.8909	0.2685	-0.3	0.265	16	0.46
467	139.1621484	-70.0355784	18.6971	0.0441	17.4773	0.0252	17.5786	0.0857	89.2	0.128	0	0.47
469	138.9231506	-70.0053606	15.5689	0.0076	15.1663	0.0089	15.1451	0.0270	2.3	0.124	3	0.88
470	138.8348099	-70.0376322	18.7335	0.0707	18.1521	0.0725	18.1694	0.2338	-52.5	0.011	0	0.49
471	139.0289468	-70.0378691	18.2205	0.0514	18.1177	0.0814	17.5798	0.1578	79.6	0.169	0	0.49
473	139.0541789	-70.0381623	18.5017	0.0596	17.9880	0.0649	17.5858	0.1423	58.9	0.173	0	0.52
474	138.8629933	-70.0389676	17.5804	0.0252	17.2151	0.0309	17.2717	0.1023	-89.6	0.111	0	0.85
475	138.9144899	-69.9565825	14.3860	0.0048	14.0688	0.0061	13.9956	0.0178	-8.4	0.280	3	0.07
476	138.9116407	-69.9614132	14.0791	0.0034	13.8162	0.0044	13.7414	0.0126	64.2	0.106	3	0.17
477	138.8508828	-70.0391104	18.4929	0.0627	17.8399	0.0602	17.9810	0.2175	-65.6	0.140	0	0.47
478	138.9350308	-70.0390473	18.6833	0.0562	18.0224	0.0534	17.4571	0.1004	-9.7	0.000	0	0.48
479	138.9017215	-69.9955724	12.9891	0.0018	12.7140	0.0023	12.6348	0.0065	73.8	0.250	2	0.34
481	138.9163848	-69.9462518	13.9344	0.0034	13.5910	0.0042	13.5367	0.0123	70.2	0.415	2	0.85
483	138.9215147	-69.9213608	17.9872	0.0450	17.4154	0.0465	17.0242	0.1028	70.7	0.147	16	0.59
484	138.9277655	-69.9214637	17.2648	0.0302	16.6950	0.0311	16.1119	0.0577	-17.8	0.163	16	0.20
485	139.1452518	-69.9214481	19.0023	0.0499	18.5313	0.0557	18.2899	0.1403	-65.1	0.066	0	0.53
486	138.9615020	-69.9217880	18.5257	0.0411	18.0081	0.0440	17.9673	0.1333	-61.0	0.101	0	0.55
489	138.9195998	-69.9226041	18.7651	0.0614	18.1478	0.0607	17.2201	0.0820	-74.2	0.291	0	0.47

Figure A.65: Catalogue for A Field p1p0 (cont.)

6	138.8014769	-70.0396069	16.0047	0.0109	15.6720	0.0140	15.3763	0.0332	85.3	0.160	3	0.71
7	138.7980013	-70.0405940	16.4567	0.0189	16.2143	0.0267	15.9140	0.0636	-49.8	0.251	3	0.22
10	138.6393410	-70.0431323	16.1344	0.0158	16.1172	0.0274	16.2462	0.0969	89.4	0.400	27	0.01
11	138.6330867	-70.0435257	15.8772	0.0090	15.5447	0.0114	15.5107	0.0342	58.9	0.222	27	0.08
15	138.6623092	-70.0411489	17.0754	0.0226	16.7904	0.0307	16.8295	0.0995	87.4	0.139	0	0.87
17	138.6158169	-70.0419471	17.0539	0.0238	16.7569	0.0320	17.2860	0.1632	28.4	0.164	0	0.03
18	138.6914929	-70.0417967	17.7856	0.0456	17.2037	0.0478	16.5133	0.0796	-84.2	0.206	0	0.22
19	138.5131278	-70.0420840	17.8738	0.0394	17.2716	0.0403	17.2717	0.1261	50.0	0.143	0	0.16
20	138.6711652	-70.0431495	15.6495	0.0067	15.2714	0.0079	14.9376	0.0178	57.0	0.247	24	0.86
21	138.5963913	-70.0430399	17.2116	0.0244	16.6989	0.0269	16.7055	0.0845	85.5	0.094	16	0.85
23	138.7954154	-70.0435448	16.4299	0.0145	16.2767	0.0220	15.9976	0.0532	84.6	0.043	16	0.79
24	138.8282219	-70.0434739	18.0955	0.0398	18.1383	0.0730	98.9041	99.0000	86.9	0.540	24	0.17
26	138.7674242	-70.0436684	18.4811	0.0580	17.9816	0.0654	17.9610	0.2014	43.4	0.083	16	0.62
28	138.8228884	-69.9247753	18.1987	0.0461	17.2846	0.0355	16.6649	0.0628	-71.6	0.029	0	0.64
31	138.6560997	-69.9174787	17.1862	0.0230	16.6534	0.0249	98.9041	99.0000	17.0	0.235	19	0.19
35	138.8128930	-69.9250060	17.6758	0.0459	16.7616	0.0355	16.2867	0.0720	-56.9	0.244	3	0.04
36	138.8146516	-69.9266195	16.8873	0.0220	16.4128	0.0252	16.0591	0.0569	-23.6	0.298	2	0.67
38	138.7056158	-69.9266186	17.4990	0.0319	16.8390	0.0309	16.5407	0.0736	81.6	0.224	0	0.86
39	138.6854889	-69.9270079	18.2868	0.0363	18.1052	0.0538	17.6922	0.1152	-39.0	0.091	0	0.59
41	138.6099025	-69.9272864	17.9764	0.0319	17.2814	0.0298	16.9377	0.0675	-75.4	0.100	0	0.84
42	138.6410041	-69.9275091	17.6905	0.0354	17.1784	0.0393	16.9931	0.1039	65.6	0.161	0	0.26
43	138.7349084	-69.9273424	18.9743	0.0780	17.7076	0.0438	17.2261	0.0879	-65.0	0.215	0	0.42
46	138.7931003	-69.9279266	18.6476	0.0685	18.2240	0.0828	17.5513	0.1403	-83.6	0.152	0	0.54
50	138.7905027	-69.9294563	17.1192	0.0241	16.5658	0.0256	16.2915	0.0622	-64.8	0.131	0	0.88
51	138.6795117	-69.9291664	18.9130	0.0760	18.4737	0.0906	18.4006	0.2664	-73.9	0.211	0	0.48
53	138.5635844	-69.9314425	16.2387	0.0148	15.7155	0.0161	15.4740	0.0403	59.1	0.382	3	0.24
55	138.6104384	-69.9310758	18.1161	0.0474	17.4674	0.0466	17.2283	0.1173	-60.3	0.123	3	0.56
56	138.6077127	-69.9318245	16.6476	0.0202	16.3006	0.0260	16.2440	0.0774	-49.6	0.058	2	0.84
57	138.7846941	-69.9311163	18.6117	0.0622	17.7565	0.0507	17.0661	0.0842	47.5	0.356	0	0.44
58	138.7987204	-69.9321354	17.2888	0.0300	16.6447	0.0295	16.7582	0.1026	87.3	0.560	0	0.18
59	138.8271201	-69.9316067	17.7953	0.0309	17.5041	0.0417	17.1426	0.0935	-74.6	0.262	24	0.80
60	138.6225667	-69.9316309	19.1324	0.0760	18.0431	0.0500	17.4338	0.0893	64.5	0.217	0	0.47
61	138.7750499	-69.9325308	18.9483	0.0590	18.3423	0.0599	18.1100	0.1513	75.3	0.280	0	0.47
62	138.8063953	-69.9327884	18.2332	0.0468	17.7567	0.0536	17.6282	0.1495	40.0	0.273	0	0.01
63	138.4604143	-69.9326833	18.0282	0.0329	17.3777	0.0319	17.1010	0.0769	-63.9	0.082	16	0.42
64	138.4742426	-69.9329517	17.7600	0.0449	17.0968	0.0436	16.4315	0.0744	-86.7	0.594	0	0.13
65	138.7558869	-69.9331536	18.4279	0.0376	17.9541	0.0427	17.9865	0.1369	-69.7	0.145	0	0.62
68	138.8224505	-69.9338188	18.5016	0.0511	18.0683	0.0609	17.5919	0.1233	-73.4	0.127	0	0.64
70	138.6287631	-69.9338413	18.8776	0.0446	18.3097	0.0464	17.9223	0.1010	-69.0	0.174	0	0.49
73	138.5725098	-69.9343536	18.0567	0.0322	17.4838	0.0334	17.4062	0.0968	-67.6	0.077	0	0.72
74	138.5376858	-69.9344514	18.8569	0.0645	17.9754	0.0512	17.7188	0.1266	2.5	0.074	0	0.59
76	138.8103852	-69.9352032	17.5655	0.0271	17.3571	0.0393	16.9829	0.0873	-85.1	0.128	0	0.88
78	138.7061201	-69.9350383	18.3472	0.0479	18.1189	0.0689	18.3329	0.2634	43.4	0.128	0	0.47
81	138.8195458	-69.9361535	18.4919	0.0412	17.8764	0.0413	17.4230	0.0848	-11.8	0.134	0	0.54
82	138.6714257	-69.9370559	16.9360	0.0250	16.5286	0.0306	16.7608	0.1187	-81.2	0.093	1	0.35
83	138.5959495	-69.9368843	19.0017	0.0748	18.2402	0.0664	17.5058	0.1060	-77.3	0.300	0	0.49
85	138.5761529	-69.9373765	18.2766	0.0451	17.9313	0.0582	17.7914	0.1605	-87.5	0.197	0	0.64
87	138.7881816	-69.9376664	17.9755	0.0541	17.0840	0.0427	16.8056	0.1039	20.5	0.207	0	0.02
88	138.6439582	-69.9381287	17.9802	0.0532	17.5356	0.0632	18.5464	0.5042	-82.4	0.053	0	0.09

Figure A.66: Catalogue for A Field p0p0

94	138.7348599	-69.9404198	18.6633	0.0496	18.1140	0.0529	17.9571	0.1432	-75.5	0.215	0	0.47
95	138.8252912	-69.9407909	18.2937	0.0411	17.5648	0.0373	17.6092	0.1210	-77.9	0.228	16	0.60
96	138.7594817	-69.9408493	17.4739	0.0366	16.6010	0.0293	16.3588	0.0735	-6.9	0.393	1	0.00
98	138.5284469	-69.9406378	18.7752	0.0652	18.6443	0.1028	18.5710	0.3023	11.2	0.246	0	0.49
99	138.6241778	-69.9419191	17.2643	0.0199	16.7581	0.0218	16.6685	0.0623	57.7	0.113	0	0.68
101	138.4749616	-69.9422192	18.0468	0.0325	17.5315	0.0356	17.4707	0.1048	77.5	0.097	0	0.82
103	138.6185960	-69.9426764	18.5335	0.0554	17.7597	0.0485	17.8369	0.1629	-89.6	0.072	0	0.52
105	138.5978812	-69.9430283	17.8880	0.0352	17.6019	0.0478	17.5767	0.1465	-62.4	0.104	0	0.82
106	138.5125600	-69.9427764	18.5344	0.0648	18.1374	0.0803	18.6511	0.4052	-76.9	0.169	0	0.56
107	138.7756586	-69.9437098	17.7274	0.0294	17.2037	0.0320	17.1455	0.0945	-66.8	0.116	0	0.86
108	138.4920564	-69.9437527	17.8688	0.0351	17.3443	0.0384	17.2066	0.1059	-87.7	0.041	0	0.81
111	138.7116502	-69.9445423	17.8878	0.0379	17.3696	0.0418	17.3361	0.1268	-62.5	0.068	0	0.78
112	138.5310172	-69.9445438	18.3862	0.0573	17.8859	0.0646	17.5831	0.1535	-84.7	0.288	0	0.26
120	138.5981466	-69.9458047	18.3237	0.0593	17.9968	0.0784	18.3707	0.3478	-87.9	0.135	0	0.60
121	138.5768263	-69.9463344	18.6190	0.0400	18.1891	0.0472	17.7679	0.0998	88.4	0.142	0	0.62
122	138.4619507	-69.9463041	19.0245	0.0757	18.8452	0.1143	18.1121	0.1833	-9.5	0.380	0	0.46
124	138.5178020	-69.9465368	18.9783	0.0722	18.4964	0.0826	18.2602	0.2087	40.4	0.034	0	0.48
125	138.6767876	-69.9473618	17.7807	0.0357	17.5311	0.0503	17.1866	0.1150	-81.7	0.103	0	0.81
126	138.7634352	-69.9472856	18.6488	0.0700	18.4046	0.0998	18.1265	0.2433	89.1	0.060	0	0.45
127	138.4943746	-69.9475086	18.4369	0.0495	17.7672	0.0476	17.7507	0.1466	-61.7	0.102	0	0.62
130	138.8136863	-69.9489898	18.3904	0.0622	17.6713	0.0574	17.3661	0.1362	-64.3	0.053	0	0.51
132	138.7854820	-69.9496572	17.7403	0.0277	17.2072	0.0298	17.1844	0.0907	-89.0	0.182	0	0.76
133	138.7052869	-69.9494162	18.6073	0.0642	17.9165	0.0608	17.6621	0.1510	-77.1	0.182	0	0.50
139	138.8226266	-69.9508082	18.5812	0.0642	19.3462	0.2310	18.6258	0.3754	89.9	0.528	0	0.53
141	138.6683671	-69.9511587	18.6047	0.0641	18.2131	0.0797	18.1062	0.2271	-45.1	0.171	0	0.52
142	138.7369321	-69.9516779	17.6086	0.0434	17.2936	0.0581	16.9247	0.1301	73.9	0.472	0	0.00
143	138.5492382	-69.9518586	18.8921	0.0699	18.1903	0.0654	18.4805	0.2678	-62.0	0.314	0	0.49
146	138.5166784	-69.9529800	17.7497	0.0463	17.1687	0.0486	16.6069	0.0911	-76.1	0.142	0	0.18
147	138.5823810	-69.9534789	17.2477	0.0268	16.5768	0.0257	16.4741	0.0730	84.2	0.069	3	0.89
148	138.5811510	-69.9546087	17.6123	0.0251	16.9405	0.0238	16.9462	0.0742	-68.6	0.147	3	0.60
151	138.7910932	-69.9537997	18.4008	0.0681	17.8576	0.0740	17.9141	0.2452	-31.4	0.007	0	0.49
152	138.7345141	-69.9539030	18.8359	0.0669	18.2187	0.0677	17.4388	0.1037	-43.0	0.090	0	0.56
155	138.6614600	-69.9540832	18.9028	0.0750	18.0994	0.0641	18.0259	0.1878	-57.2	0.378	0	0.48
156	138.6660599	-69.9543388	18.2395	0.0631	17.6207	0.0639	17.1345	0.1286	83.6	0.079	0	0.40
157	138.7487843	-69.9551826	17.8010	0.0369	17.6519	0.0569	17.5819	0.1677	-77.1	0.061	0	0.82
159	138.7565402	-69.9556735	18.3448	0.0397	17.7916	0.0422	17.6064	0.1109	-16.9	0.057	0	0.70
161	138.5258776	-69.9612887	15.8611	0.0085	15.4453	0.0099	15.3967	0.0292	-87.3	0.220	3	0.79
166	138.5529793	-69.9571604	18.7749	0.0644	18.3752	0.0793	18.3767	0.2495	-58.3	0.288	0	0.49
167	138.7637303	-69.9574752	18.2757	0.0500	18.2375	0.0858	17.6721	0.1605	-83.1	0.083	0	0.52
168	138.6538280	-69.9579318	17.7365	0.0428	17.3878	0.0554	16.9074	0.1119	-87.4	0.103	0	0.65
171	138.7909497	-69.9596039	17.0156	0.0202	16.7080	0.0266	16.6283	0.0773	-74.6	0.117	0	0.79
173	138.7511403	-69.9626766	16.3592	0.0137	15.9247	0.0160	15.8726	0.0474	-38.0	0.210	3	0.78
174	138.6367375	-69.9598067	18.3435	0.0626	18.0774	0.0876	17.8070	0.2151	81.5	0.130	0	0.61
176	138.7018609	-69.9604776	18.3439	0.0559	17.7167	0.0560	16.8109	0.0765	-79.2	0.069	0	0.53
177	138.7154891	-69.9621388	18.2504	0.0555	18.1171	0.0875	17.5658	0.1659	58.3	0.052	0	0.56
179	138.4896498	-69.9640528	14.7133	0.0037	14.3596	0.0044	14.2311	0.0116	75.4	0.478	0	0.57
184	138.7137509	-69.9650163	17.7433	0.0493	17.4169	0.0653	17.2694	0.1794	-80.7	0.441	1	0.07
185	138.4768845	-69.9645223	17.9655	0.0317	17.3801	0.0326	17.2940	0.0938	-88.4	0.094	0	0.62
187	138.7661372	-69.9646715	18.4279	0.0540	18.2014	0.0779	18.0394	0.2110	-62.4	0.066	0	0.50

Figure A.67: Catalogue for A Field p0p0 (cont.)

188	138.5719812	-69.9659462	16.4663	0.0154	15.9350	0.0166	15.8327	0.0470	81.3	0.517	0	0.18
189	138.6647534	-69.9655183	17.6124	0.0258	16.9796	0.0254	16.8992	0.0732	85.6	0.115	0	0.65
191	138.7865035	-69.9657126	18.2941	0.0483	18.0347	0.0676	18.0122	0.2079	-72.0	0.141	0	0.68
194	138.7068378	-69.9683442	16.4326	0.0140	15.8217	0.0140	15.5752	0.0345	-74.6	0.138	3	0.85
196	138.4569856	-69.9661843	18.6645	0.0478	18.0234	0.0470	18.4691	0.2205	-90.0	0.497	24	0.50
200	138.4748224	-69.9669729	18.8942	0.0689	18.1575	0.0624	18.3398	0.2313	-66.8	0.261	0	0.48
202	138.7538813	-69.9683966	17.8089	0.0284	17.5475	0.0391	17.3473	0.1015	79.9	0.085	0	0.78
204	138.8081947	-69.9688197	18.6144	0.0551	17.9917	0.0553	18.6761	0.3251	-61.3	0.149	0	0.55
205	138.6406030	-69.9689296	18.0978	0.0518	17.6961	0.0639	17.5169	0.1704	-75.7	0.187	0	0.54
206	138.6316205	-69.9697804	16.0862	0.0091	15.7791	0.0116	15.7694	0.0354	85.8	0.225	3	0.85
209	138.5141184	-69.9702381	17.4832	0.0296	17.1635	0.0390	16.6888	0.0791	-64.1	0.157	3	0.50
213	138.6020198	-69.9707634	16.5746	0.0151	16.1931	0.0186	16.1001	0.0531	-8.6	0.190	0	0.78
214	138.4977197	-69.9709572	17.0343	0.0190	16.6051	0.0225	16.4382	0.0599	63.4	0.323	0	0.01
216	138.5708264	-69.9706340	18.8699	0.0696	18.2294	0.0689	18.4218	0.2580	-52.5	0.247	0	0.48
217	138.7373212	-69.9710016	18.2850	0.0469	17.6995	0.0487	17.5922	0.1382	-41.6	0.138	0	0.64
218	138.6713151	-69.9711354	18.0767	0.0501	17.6176	0.0586	17.6921	0.1971	-77.0	0.167	0	0.61
220	138.5631064	-69.9723226	17.6792	0.0265	17.2541	0.0315	17.0112	0.0784	-69.1	0.232	0	0.81
221	138.6779590	-69.9723060	18.0743	0.0505	17.5683	0.0566	18.1970	0.3170	82.3	0.106	0	0.61
222	138.6614874	-69.9726433	17.9623	0.0469	17.6424	0.0622	16.9596	0.1045	85.5	0.195	0	0.71
223	138.4807548	-69.9730906	15.2781	0.0050	14.7811	0.0052	14.6331	0.0135	30.8	0.106	0	0.15
224	138.7304719	-69.9729295	18.6253	0.0603	18.0076	0.0609	17.6082	0.1323	-88.7	0.203	0	0.49
225	138.7105268	-69.9735079	18.7414	0.0701	18.0859	0.0686	18.0228	0.2032	-44.5	0.146	0	0.49
227	138.6750513	-69.9738328	18.6556	0.0696	18.9879	0.1683	19.3335	0.7295	-80.7	0.286	0	0.50
228	138.6970607	-69.9741476	17.8599	0.0421	17.2980	0.0447	17.3145	0.1424	-35.8	0.173	0	0.06
229	138.5717606	-69.9739504	18.6526	0.0518	18.0904	0.0548	18.0544	0.1657	-75.3	0.119	0	0.53
232	138.7273204	-69.9745142	18.2147	0.0359	18.4547	0.0783	19.3300	0.5496	-67.0	0.144	0	0.78
234	138.7904946	-69.9745725	18.4678	0.0498	17.9239	0.0537	18.0435	0.1876	-80.5	0.383	0	0.42
235	138.5841901	-69.9757267	16.1020	0.0122	15.5384	0.0127	15.2771	0.0311	78.9	0.264	1	0.33
237	138.4971737	-69.9761105	15.8876	0.0113	15.3660	0.0123	15.1846	0.0323	-44.4	0.476	3	0.68
238	138.5005009	-69.9778139	14.7321	0.0044	14.1363	0.0043	13.7492	0.0092	48.2	0.182	3	0.03
239	138.5757018	-69.9751498	18.3286	0.0583	17.8942	0.0698	17.7614	0.1942	-74.4	0.229	0	0.63
241	138.4839320	-69.9759273	18.1415	0.0494	17.5611	0.0517	17.3635	0.1353	-68.2	0.117	0	0.27
243	138.5218471	-69.9766868	16.8884	0.0188	16.2969	0.0192	16.0335	0.0469	77.6	0.396	0	0.38
244	138.8015262	-69.9764289	18.6930	0.0681	18.2006	0.0773	18.4540	0.3065	-72.8	0.228	0	0.59
246	138.4646738	-69.9770722	17.7963	0.0286	17.5256	0.0391	17.5965	0.1303	87.0	0.147	0	0.62
247	138.5281989	-69.9771975	17.4072	0.0350	17.5893	0.0736	17.3817	0.1914	88.0	0.211	0	0.80
248	138.8044459	-69.9775108	17.2976	0.0336	16.6893	0.0342	17.1573	0.1651	-85.8	0.164	0	0.54
250	138.5748626	-69.9779491	16.8288	0.0162	16.5763	0.0224	16.8546	0.0898	89.7	0.115	0	0.89
252	138.6650556	-69.9784515	17.4284	0.0299	16.7293	0.0279	16.4957	0.0704	5.3	0.304	0	0.62
254	138.6015252	-69.9792336	17.0939	0.0243	16.6398	0.0283	16.5926	0.0849	-82.2	0.175	0	0.62
257	138.6845518	-69.9793081	18.7368	0.0787	17.8488	0.0624	16.8153	0.0759	70.2	0.303	0	0.50
260	138.7286692	-69.9798917	18.7048	0.0544	18.1186	0.0564	18.0804	0.1703	81.6	0.094	0	0.50
261	138.7874681	-69.9804607	16.6494	0.0165	16.3342	0.0216	16.3601	0.0689	37.8	0.229	0	0.06
263	138.5711277	-69.9806379	17.2852	0.0302	16.9935	0.0410	16.8808	0.1161	50.9	0.439	1	0.01
264	138.6602879	-69.9804864	18.7590	0.0714	18.3031	0.0838	18.2309	0.2466	-89.9	0.191	0	0.54
265	138.7239248	-69.9805763	18.0275	0.0342	17.3706	0.0330	17.0288	0.0752	67.2	0.062	0	0.72
266	138.4699037	-69.9806067	17.2347	0.0316	16.9289	0.0424	16.7970	0.1181	21.1	0.426	3	0.03
268	138.6524452	-69.9806067	18.3912	0.0630	17.5706	0.0531	17.3097	0.1311	-88.5	0.168	0	0.60
269	138.7413735	-69.9805172	19.0632	0.0756	18.3171	0.0680	17.7313	0.1244	44.0	0.120	0	0.49

Figure A.68: Catalogue for A Field p0p0 (cont.)

274	138.6792774	-69.9832734	17.4822	0.0310	17.0842	0.0382	16.8734	0.0985	85.5	0.138	0	0.89
277	138.5986288	-69.9834684	17.9437	0.0398	17.7748	0.0604	17.7751	0.1899	-63.4	0.138	0	0.80
280	138.7750906	-69.9835384	18.5816	0.0436	17.8831	0.0405	17.9174	0.1302	-64.4	0.087	0	0.66
282	138.7320235	-69.9841619	16.9141	0.0230	16.1592	0.0204	15.5666	0.0370	34.2	0.513	0	0.16
283	138.6038307	-69.9836848	18.0269	0.0510	17.6624	0.0651	17.3985	0.1607	73.1	0.102	0	0.57
284	138.5106564	-69.9837274	18.2317	0.0629	17.9232	0.0848	98.9041	99.0000	-45.5	0.102	0	0.32
285	138.7823613	-69.9838099	18.7592	0.0635	18.4519	0.0851	18.5207	0.2848	-31.4	0.118	0	0.54
286	138.7374338	-69.9844320	17.9945	0.0513	17.2103	0.0446	16.6256	0.0819	82.5	0.173	0	0.31
288	138.7898005	-69.9853507	17.9194	0.0538	17.3809	0.0587	16.7332	0.1018	4.9	0.148	0	0.02
289	138.6905793	-69.9857115	17.8768	0.0297	17.4236	0.0344	17.0855	0.0786	-76.8	0.109	0	0.84
291	138.8205059	-69.9860835	17.4308	0.0272	17.1892	0.0384	17.5215	0.1633	-73.3	0.111	0	0.83
292	138.5225928	-69.9861736	17.9047	0.0339	17.4648	0.0400	17.1568	0.0942	-78.4	0.130	0	0.47
295	138.4633247	-69.9868860	18.0857	0.0334	17.5668	0.0364	17.3382	0.0920	82.4	0.060	0	0.78
296	138.6112803	-69.9876576	17.9249	0.0301	17.2300	0.0280	16.9342	0.0662	-84.1	0.115	0	0.86
297	138.4742800	-69.9876498	18.1706	0.0361	17.3671	0.0306	16.6694	0.0502	-77.6	0.148	0	0.07
299	138.7326178	-69.9877787	18.4810	0.0388	17.9639	0.0423	17.9182	0.1264	-67.0	0.086	0	0.63
305	138.6876188	-69.9888281	18.5125	0.0577	18.1363	0.0727	17.7335	0.1577	-65.3	0.082	0	0.54
306	138.7915742	-69.9902437	17.6659	0.0360	17.3388	0.0473	16.9896	0.1077	-78.4	0.158	0	0.50
308	138.6820850	-69.9917600	14.7389	0.0047	14.0979	0.0044	13.7043	0.0094	-41.3	0.196	0	0.03
309	138.6036686	-69.9907240	17.7813	0.0476	17.4598	0.0633	17.0455	0.1361	-82.4	0.267	0	0.10
310	138.5289218	-69.9905958	18.3273	0.0446	18.2327	0.0722	17.7458	0.1449	-45.3	0.072	0	0.57
313	138.5385437	-69.9914665	17.8342	0.0420	17.2824	0.0450	16.9086	0.1002	-71.9	0.126	0	0.66
314	138.5432342	-69.9917777	17.6757	0.0390	17.4045	0.0540	16.9097	0.1077	86.4	0.208	0	0.70
318	138.6163840	-69.9975248	15.6569	0.0068	15.3908	0.0089	15.2710	0.0244	78.9	0.058	3	0.67
319	138.6702839	-69.9917030	19.0346	0.0727	18.9265	0.1171	19.6035	0.6864	31.7	0.006	0	0.46
320	138.5957916	-69.9925199	18.0289	0.0365	17.4182	0.0369	17.4639	0.1201	83.4	0.182	0	0.83
321	138.5105702	-69.9930917	15.7051	0.0072	15.1500	0.0074	15.0713	0.0208	-21.3	0.265	0	0.79
324	138.4827486	-69.9924093	18.9794	0.0881	18.0048	0.0645	18.2105	0.2445	-74.8	0.120	0	0.48
325	138.6470734	-69.9936111	17.9545	0.0315	17.3474	0.0318	17.2487	0.0904	-69.4	0.135	0	0.77
326	138.7465927	-69.9935087	18.6105	0.0649	18.2909	0.0863	17.4484	0.1250	-54.0	0.167	0	0.49
330	138.7513251	-69.9946250	16.6798	0.0174	16.3818	0.0231	16.1088	0.0563	-81.3	0.118	3	0.87
333	138.5867456	-69.9947322	17.8775	0.0359	17.5866	0.0486	17.3421	0.1218	70.4	0.050	0	0.48
335	138.5650232	-69.9954149	18.8677	0.0616	18.2075	0.0597	18.5998	0.2680	-77.0	0.294	0	0.50
338	138.7937775	-69.9971542	17.3735	0.0463	16.6935	0.0444	17.1517	0.2131	-47.8	0.590	2	0.00
339	138.7908266	-69.9981270	17.5119	0.0394	17.0063	0.0442	17.0915	0.1504	62.6	0.145	3	0.20
343	138.6507562	-69.9969775	18.3305	0.0586	17.7509	0.0614	17.5024	0.1535	-54.3	0.130	0	0.62
344	138.4977403	-69.9976088	17.7831	0.0283	17.2630	0.0308	17.1474	0.0863	-84.7	0.146	0	0.86
345	138.4861425	-69.9975684	18.5102	0.0684	18.1656	0.0891	17.9021	0.2201	-85.5	0.106	0	0.47
346	138.4574876	-69.9978603	17.9919	0.0289	17.5284	0.0329	17.6505	0.1144	-79.2	0.222	19	0.79
347	138.4594588	-69.9986240	17.8198	0.0298	17.2053	0.0298	16.8373	0.0663	-79.1	0.231	19	0.71
349	138.5079136	-69.9982466	17.9690	0.0450	17.4420	0.0494	17.3765	0.1460	-60.7	0.183	0	0.65
350	138.6745473	-69.9987615	17.4700	0.0233	16.8870	0.0239	16.7809	0.0673	74.3	0.087	0	0.60
351	138.6638365	-69.9993222	15.1597	0.0051	14.4205	0.0044	13.9664	0.0087	-4.6	0.271	0	0.03
352	138.5797283	-69.9989863	17.5386	0.0264	16.9952	0.0282	16.7189	0.0682	-64.9	0.318	3	0.86
356	138.5506003	-70.0024836	17.4173	0.0341	16.9217	0.0385	16.6198	0.0916	-82.6	0.122	3	0.87
357	138.7406137	-69.9991263	19.0222	0.0764	18.3246	0.0719	18.7264	0.3263	40.4	0.037	0	0.45
358	138.8071469	-70.0012622	16.5035	0.0152	16.2222	0.0205	16.0208	0.0532	36.2	0.405	0	0.19
359	138.8154165	-70.0009302	18.8124	0.0568	18.0426	0.0498	17.8880	0.1349	59.1	0.204	0	0.55
361	138.7644368	-70.0019900	18.8023	0.0720	18.2128	0.0748	17.7421	0.1523	-74.7	0.215	0	0.48

Figure A.69: Catalogue for A Field p0p0 (cont.)

362	138.6744817	-70.0024747	17.9489	0.0298	17.3544	0.0303	17.2890	0.0887	-83.8	0.091	0	0.64
363	138.8262644	-70.0026099	18.5779	0.0596	18.3010	0.0823	18.2783	0.2532	-29.6	0.250	16	0.63
365	138.6206420	-70.0028291	18.7811	0.0568	18.0798	0.0530	18.0523	0.1615	-69.8	0.150	0	0.55
367	138.5580807	-70.0035431	17.5459	0.0299	17.1287	0.0360	17.2261	0.1233	-83.1	0.098	0	0.77
368	138.7817744	-70.0038210	17.3933	0.0263	16.8057	0.0271	16.7253	0.0785	-66.1	0.215	3	0.38
369	138.7838955	-70.0047441	17.8743	0.0366	17.4840	0.0452	17.0990	0.0995	-86.1	0.144	3	0.72
370	138.4945218	-70.0032029	18.5766	0.0621	17.8831	0.0586	17.6612	0.1500	-50.1	0.158	0	0.50
371	138.7171492	-70.0037308	18.2551	0.0500	17.5507	0.0467	16.8757	0.0787	80.6	0.279	0	0.50
373	138.5168106	-70.0040891	17.1936	0.0236	16.7693	0.0282	16.6247	0.0771	-71.5	0.122	0	0.64
376	138.8220049	-70.0049582	17.4027	0.0327	17.0932	0.0438	16.8152	0.1064	-72.9	0.185	1	0.76
377	138.6590560	-70.0049418	17.9386	0.0369	17.4868	0.0431	17.2313	0.1067	-88.5	0.080	0	0.79
378	138.7139339	-70.0045739	18.8709	0.0689	18.2902	0.0721	18.1251	0.1943	89.7	0.267	0	0.41
379	138.7456110	-70.0052221	17.3242	0.0343	16.7715	0.0368	16.3658	0.0796	-71.8	0.281	3	0.22
380	138.7405452	-70.0062037	16.1736	0.0112	15.5924	0.0114	15.4191	0.0300	-64.9	0.216	2	0.84
382	138.5349120	-70.0047878	19.0459	0.0665	18.2526	0.0571	18.7666	0.2863	53.2	0.008	0	0.48
383	138.7241162	-70.0056226	18.9683	0.0678	18.6830	0.0928	18.9671	0.3783	-64.8	0.217	0	0.48
385	138.8231933	-70.0076636	14.9319	0.0044	14.6169	0.0054	14.5342	0.0151	72.4	0.447	16	0.30
387	138.6834524	-70.0071397	18.6056	0.0387	18.0502	0.0407	18.2275	0.1487	90.0	0.174	0	0.57
388	138.4884080	-70.0071386	18.1611	0.0598	18.0127	0.0933	17.6117	0.2032	-61.6	0.092	0	0.10
389	138.6291922	-70.0073433	18.0537	0.0406	17.5029	0.0434	17.1698	0.1001	-84.0	0.121	0	0.21
394	138.4599406	-70.0087085	18.0051	0.0458	17.3923	0.0465	16.9104	0.0937	-78.5	0.187	16	0.79
395	138.5597820	-70.0108444	14.9635	0.0044	14.4857	0.0046	14.3725	0.0125	73.5	0.409	3	0.82
398	138.5152853	-70.0110201	14.5463	0.0032	14.2055	0.0037	14.1163	0.0102	34.3	0.230	0	0.87
400	138.7456929	-70.0098004	18.0464	0.0578	17.5609	0.0662	16.7970	0.1032	63.5	0.044	0	0.29
401	138.6107130	-70.0100273	18.0051	0.0321	17.3710	0.0316	17.1538	0.0805	65.1	0.107	0	0.81
404	138.6576024	-70.0109229	18.4218	0.0470	17.7061	0.0433	17.3729	0.0995	-23.4	0.042	0	0.60
405	138.7440438	-70.0109374	18.3638	0.0714	17.7277	0.0714	17.0432	0.1196	-49.0	0.293	0	0.46
406	138.4785453	-70.0114123	17.5451	0.0389	16.4795	0.0261	16.0363	0.0544	-59.4	0.329	0	0.00
407	138.8092134	-70.0111752	19.1269	0.0857	18.6628	0.0999	18.9703	0.4167	89.0	0.203	0	0.46
408	138.7762172	-70.0117392	18.4493	0.0603	17.8808	0.0638	17.6001	0.1549	57.6	0.140	3	0.52
409	138.7745125	-70.0126040	18.6236	0.0704	17.7418	0.0560	17.4470	0.1341	54.5	0.158	2	0.44
410	138.4564935	-70.0118006	18.3891	0.0390	17.7743	0.0391	18.2310	0.1849	-88.7	0.568	24	0.61
412	138.7240650	-70.0126270	18.0946	0.0417	17.6168	0.0477	17.5295	0.1380	78.0	0.181	3	0.24
414	138.7651995	-70.0131668	17.0864	0.0209	16.9010	0.0308	16.8292	0.0901	88.8	0.204	3	0.13
415	138.7679976	-70.0133420	17.4115	0.0256	16.9784	0.0303	16.8289	0.0825	87.6	0.149	3	0.85
416	138.7941579	-70.0131895	17.2560	0.0375	16.8108	0.0445	16.9039	0.1524	-73.2	0.131	0	0.31
417	138.5239452	-70.0128437	18.6461	0.0661	18.7471	0.1292	18.3249	0.2760	80.6	0.187	0	0.59
418	138.6169384	-70.0131998	18.2752	0.0496	17.7958	0.0568	17.4913	0.1347	85.1	0.084	0	0.59
419	138.7466503	-70.0135926	18.6015	0.0784	17.7956	0.0670	17.2151	0.1235	-52.5	0.531	0	0.58
420	138.4881063	-70.0133088	18.8537	0.0678	18.1868	0.0656	18.4591	0.2641	-1.1	0.030	0	0.49
426	138.7364404	-70.0152890	17.5927	0.0251	16.9998	0.0256	16.6746	0.0590	35.2	0.044	0	0.87
427	138.5168984	-70.0153768	17.6043	0.0453	16.9694	0.0452	16.7206	0.1130	-47.8	0.141	0	0.56
428	138.7990202	-70.0162947	17.4437	0.0337	17.1498	0.0458	17.0413	0.1301	71.4	0.053	0	0.61
429	138.7022504	-70.0158103	17.8335	0.0302	17.5362	0.0404	17.3688	0.1081	-85.4	0.092	0	0.38
430	138.4786102	-70.0164514	18.8973	0.0683	18.1155	0.0594	18.8578	0.3682	-89.4	0.200	0	0.45
431	138.6905964	-70.0170107	17.8918	0.0301	17.1859	0.0278	17.1760	0.0855	86.3	0.073	0	0.83
433	138.6797533	-70.0177323	16.8633	0.0185	16.4822	0.0228	16.3279	0.0617	-75.7	0.180	1	0.72
436	138.6522665	-70.0176968	18.3115	0.0415	18.1526	0.0632	17.9667	0.1670	-88.8	0.194	0	0.43
437	138.4892500	-70.0182131	17.5717	0.0322	17.3054	0.0446	17.1321	0.1192	-84.0	0.185	0	0.83

Figure A.70: Catalogue for A Field p0p0 (cont.)

441	138.6953493	-70.0189660	18.9077	0.0757	18.0632	0.0623	17.1558	0.0849	-82.4	0.415	0	0.48
442	138.6322770	-70.0195566	18.5870	0.0609	18.1556	0.0730	17.8940	0.1802	-45.6	0.080	0	0.57
443	138.4988296	-70.0201848	17.2482	0.0202	16.6802	0.0210	16.3573	0.0484	-79.2	0.122	0	0.89
444	138.8137102	-70.0207102	17.6213	0.0314	17.2059	0.0380	16.8821	0.0883	77.4	0.135	0	0.84
445	138.4860732	-70.0207893	17.4912	0.0392	17.0098	0.0450	16.7662	0.1129	-71.4	0.395	0	0.06
448	138.7518732	-70.0204732	18.5062	0.0560	17.9055	0.0575	17.8937	0.1782	-43.9	0.093	0	0.63
449	138.7717022	-70.0216190	18.3850	0.0356	17.8877	0.0395	17.8603	0.1198	75.9	0.086	0	0.59
450	138.6634176	-70.0220373	17.1430	0.0188	16.7745	0.0233	16.7704	0.0722	80.2	0.084	0	0.89
451	138.6862442	-70.0219481	17.6407	0.0368	17.3038	0.0480	18.8868	0.6472	81.2	0.087	0	0.72
452	138.6370311	-70.0219548	17.3732	0.0365	17.0171	0.0469	16.6461	0.1049	-36.9	0.113	3	0.83
453	138.6391196	-70.0241358	14.7629	0.0036	14.4489	0.0043	14.3169	0.0114	-87.6	0.370	3	0.86
454	138.6387924	-70.0268655	16.6510	0.0167	16.3059	0.0213	16.1778	0.0592	-89.3	0.135	3	0.31
456	138.4610390	-70.0226612	18.2921	0.0559	17.8242	0.0648	17.4275	0.1415	-20.1	0.147	0	0.51
458	138.7871736	-70.0231799	18.7484	0.0568	18.1717	0.0593	17.9145	0.1467	-75.6	0.218	0	0.49
459	138.6935933	-70.0238755	16.9323	0.0252	16.6144	0.0333	16.4999	0.0941	10.2	0.160	3	0.05
461	138.4914225	-70.0235571	18.8386	0.0772	17.9827	0.0629	17.9268	0.1876	79.9	0.158	0	0.28
463	138.6108906	-70.0280209	16.5991	0.0227	16.1789	0.0275	15.7901	0.0603	27.0	0.121	3	0.21
465	138.6188761	-70.0277347	14.9444	0.0051	14.2823	0.0048	13.7332	0.0088	49.7	0.008	3	0.03
466	138.4597201	-70.0247066	17.1032	0.0221	16.6292	0.0251	16.6519	0.0801	-74.7	0.143	16	0.80
467	138.5369642	-70.0243601	18.3668	0.0423	17.5620	0.0358	17.2136	0.0811	-68.3	0.121	0	0.62
468	138.6770818	-70.0245993	18.1789	0.0556	17.8837	0.0756	17.9265	0.2475	85.6	0.249	0	0.21
470	138.7136012	-70.0249777	19.0867	0.0737	18.6304	0.0863	17.9691	0.1475	-89.6	0.272	0	0.48
472	138.6569667	-70.0260673	18.1253	0.0423	17.4889	0.0419	17.2244	0.1028	89.1	0.207	0	0.13
473	138.8012601	-70.0261581	18.3267	0.0389	17.7941	0.0420	17.5705	0.1067	-79.2	0.095	0	0.47
476	138.8264125	-70.0302434	16.2230	0.0114	15.9109	0.0147	15.9704	0.0483	-87.4	0.058	19	0.61
479	138.4633341	-70.0275889	18.6999	0.0630	17.9329	0.0556	17.3935	0.1061	76.3	0.144	0	0.44
483	138.6319161	-70.0284781	19.0344	0.0824	18.7526	0.1135	19.0739	0.4801	87.4	0.414	0	0.44
484	138.5881926	-70.0287793	18.3086	0.0362	17.8675	0.0423	17.5496	0.0986	-80.9	0.103	0	0.58
485	138.6426985	-70.0290919	17.2293	0.0260	16.5450	0.0246	16.3468	0.0640	38.3	0.084	0	0.54
487	138.5582700	-70.0287250	18.7988	0.0437	18.3338	0.0499	18.0182	0.1163	70.2	0.183	0	0.51
488	138.7147009	-70.0292720	17.4225	0.0241	17.1013	0.0315	17.3976	0.1290	-87.4	0.088	0	0.88
489	138.6037672	-70.0296906	16.4366	0.0146	16.0820	0.0184	16.0932	0.0579	51.1	0.227	0	0.44
490	138.7372140	-70.0299915	17.9857	0.0300	17.3762	0.0301	17.5687	0.1113	-27.0	0.043	0	0.73
492	138.6914443	-70.0297802	19.0786	0.0781	18.3256	0.0698	18.2290	0.2003	-4.9	0.026	0	0.48
494	138.6112609	-70.0303180	19.4415	0.1812	18.7592	0.1741	18.2850	0.3550	-75.6	0.173	0	0.17
495	138.6195819	-70.0302332	18.0409	0.0669	17.5646	0.0775	17.1420	0.1654	-8.7	0.447	1	0.00
496	138.5160719	-70.0304087	18.5031	0.0402	17.9662	0.0432	17.3827	0.0787	-77.7	0.132	0	0.56
497	138.5648637	-69.9170846	18.7677	0.0711	17.6895	0.0473	17.0212	0.0802	7.8	0.618	16	0.48
498	138.5852401	-70.0313701	15.0301	0.0044	14.7215	0.0054	14.6064	0.0147	66.8	0.346	3	0.89
499	138.5821364	-70.0350397	14.4843	0.0031	14.1647	0.0037	14.0538	0.0099	56.1	0.264	3	0.87
500	138.6239407	-70.0308658	19.1341	0.1154	18.4422	0.1097	18.4737	0.3555	45.7	0.037	0	0.48
502	138.7948395	-70.0312215	18.4030	0.0487	17.9458	0.0568	17.3841	0.1062	-58.5	0.204	0	0.54
503	138.5405560	-70.0316436	17.8769	0.0285	17.4371	0.0333	17.3319	0.0941	80.5	0.109	0	0.76
507	138.6789987	-69.9187010	17.2368	0.0270	16.6783	0.0286	19.2667	0.9680	58.8	0.208	16	0.20
509	138.7161006	-70.0333656	17.8412	0.0319	17.4975	0.0409	17.1553	0.0935	63.7	0.057	0	0.75
511	138.7043819	-70.0337428	18.2444	0.0540	18.0498	0.0805	18.3185	0.3242	-66.3	0.090	0	0.58
512	138.7742196	-70.0343837	17.9139	0.0283	17.2111	0.0261	16.9701	0.0647	75.8	0.119	0	0.42
513	138.5467275	-70.0345926	17.6773	0.0377	17.2096	0.0437	17.1631	0.1313	-83.4	0.147	0	0.81
515	138.6047200	-70.0349105	17.7933	0.0420	17.3595	0.0502	17.0510	0.1188	-83.4	0.156	0	0.73

Figure A.71: Catalogue for A Field p0p0 (cont.)

516	138.5230175	-70.0346327	18.3904	0.0583	17.5877	0.0499	16.9784	0.0894	66.4	0.246	0	0.52
517	138.7999670	-70.0350434	18.4649	0.0656	17.5292	0.0497	16.4784	0.0595	66.6	0.061	0	0.09
518	138.4708215	-70.0348858	18.9643	0.0762	18.7021	0.1067	18.8935	0.4003	4.5	0.015	0	0.49
519	138.6504618	-70.0353336	18.3791	0.0596	17.7322	0.0587	18.1342	0.2670	87.7	0.085	0	0.53
520	138.4961549	-70.0360833	17.3201	0.0251	16.7998	0.0274	16.4077	0.0598	75.6	0.410	0	0.01
523	138.7206943	-70.0368598	17.7258	0.0320	17.3379	0.0395	17.3108	0.1207	53.9	0.147	0	0.83
524	138.5027108	-70.0368726	17.5051	0.0261	17.2069	0.0349	17.2491	0.1133	87.7	0.163	0	0.57
525	138.6326921	-70.0369372	18.7428	0.0876	18.8811	0.1781	18.8242	0.5329	-82.8	0.331	0	0.28
526	138.5099460	-70.0367976	18.7930	0.0717	18.1896	0.0735	17.4753	0.1198	62.5	0.080	0	0.49
528	138.6561891	-70.0382449	17.2598	0.0202	16.8098	0.0233	16.8322	0.0737	-89.6	0.077	0	0.89
529	138.8274917	-69.9186386	17.9882	0.0270	17.4436	0.0285	17.5805	0.0999	-86.4	0.390	24	0.88
530	138.6638507	-70.0388060	18.3368	0.0531	18.0294	0.0713	18.2446	0.2731	45.0	0.127	0	0.66
532	138.7373993	-69.9191936	18.8173	0.0548	18.0985	0.0503	18.0281	0.1471	-83.1	0.094	0	0.49
534	138.5955692	-69.9204190	16.7414	0.0189	16.0908	0.0184	15.8435	0.0456	46.5	0.397	1	0.06
535	138.8261484	-69.9208094	17.5456	0.0317	16.7848	0.0280	16.3297	0.0577	82.5	0.319	19	0.33
537	138.8220141	-69.9220223	16.8076	0.0195	16.0389	0.0170	15.8199	0.0432	-57.7	0.075	19	0.89
538	138.7227100	-69.9203797	17.6037	0.0426	16.9948	0.0435	16.8414	0.1188	43.9	0.469	0	0.00
540	138.5525622	-70.0399181	18.1345	0.0581	18.0540	0.0964	17.5683	0.1943	81.3	0.103	0	0.48
541	138.7283103	-70.0400790	18.4010	0.0384	17.8159	0.0395	17.3913	0.0834	-88.7	0.129	0	0.60
542	138.4613297	-70.0405471	18.2002	0.0507	17.6895	0.0565	17.8567	0.2068	-52.5	0.041	0	0.55
545	138.5460342	-69.9206349	18.5988	0.0546	17.6613	0.0412	17.3168	0.0938	-14.6	0.022	1	0.52
546	138.8103899	-69.9211905	16.9734	0.0288	17.0425	0.0545	18.7366	0.8160	26.7	0.365	1	0.18
548	138.6404965	-69.9223195	17.2905	0.0208	16.8599	0.0245	16.7660	0.0699	-29.3	0.198	0	0.58
549	138.7312557	-70.0423968	19.0915	0.0768	18.6328	0.0898	17.9621	0.1523	-66.4	0.217	0	0.48
552	138.6094755	-69.9228719	18.1097	0.0557	17.5682	0.0606	17.3639	0.1578	75.4	0.126	0	0.83
553	138.5735955	-69.9232283	18.9371	0.0687	18.2888	0.0675	18.5091	0.2591	-71.8	0.024	0	0.48
555	138.5658295	-69.9242401	17.6372	0.0254	17.0745	0.0265	16.9347	0.0725	-87.5	0.097	0	0.89

Figure A.72: Catalogue for A Field p0p0 (cont.)

4	138.1899856	-70.0418615	17.8134	0.0378	17.4473	0.0480	17.4875	0.1517	-84.8	0.192	0	0.61
7	138.4188258	-70.0425530	17.3547	0.0290	16.8832	0.0335	16.5331	0.0737	34.3	0.317	0	0.18
8	138.3693442	-70.0427084	17.7178	0.0321	17.4017	0.0424	17.4226	0.1315	-65.7	0.107	0	0.82
10	138.1322326	-70.0431555	17.8675	0.0312	17.6927	0.0468	17.1092	0.0832	89.2	0.165	0	0.26
14	138.3358471	-70.0433801	17.8426	0.0446	17.7432	0.0727	16.6515	0.0814	-81.2	0.274	0	0.64
15	138.4900167	-70.0438421	16.5102	0.0115	15.9440	0.0118	15.6799	0.0276	-89.4	0.261	24	0.89
17	138.3177049	-70.0438501	18.7315	0.0439	18.0295	0.0407	17.6674	0.0881	-89.8	0.270	0	0.36
18	138.2444432	-70.0441798	17.7826	0.0357	17.2703	0.0396	16.8957	0.0854	-86.7	0.202	16	0.45
20	138.3590029	-70.0442726	17.9548	0.0438	17.3316	0.0442	17.4197	0.1458	-87.6	0.154	16	0.34
21	138.3904159	-70.0447628	17.8784	0.0420	17.1662	0.0390	16.7191	0.0787	67.6	0.069	16	0.15
22	138.4142938	-70.0446336	18.6169	0.0620	17.8135	0.0531	17.1829	0.0904	78.3	0.176	16	0.48
25	138.2517887	-70.0450255	18.4364	0.0346	17.9971	0.0404	18.5859	0.2091	4.8	0.216	24	0.57
26	138.3704180	-69.9252163	18.3064	0.0517	17.7450	0.0552	17.8069	0.1778	-71.9	0.129	0	0.57
31	138.2324473	-69.9176812	18.3915	0.0374	17.7851	0.0378	17.5471	0.0917	-70.9	0.108	24	0.65
34	138.3243347	-69.9174810	18.7228	0.0535	18.2335	0.0606	98.9041	99.0000	-7.1	0.383	25	0.51
36	138.4198461	-69.9179533	17.4264	0.0285	16.6491	0.0248	16.2442	0.0519	-79.0	0.246	25	0.18
38	138.3851876	-69.9250800	19.0860	0.0952	18.4832	0.0983	18.8847	0.4339	-51.2	0.150	0	0.49
39	138.3921628	-69.9256261	17.4461	0.0328	16.8953	0.0353	17.1543	0.1362	-86.7	0.213	0	0.69
41	138.2818728	-69.9267410	17.3261	0.0329	17.0650	0.0462	16.6278	0.0942	86.7	0.051	3	0.65
42	138.2995966	-69.9264930	18.6330	0.0607	17.7918	0.0502	17.1216	0.0824	-85.3	0.091	0	0.59
43	138.4564152	-69.9276181	17.9498	0.0305	17.3400	0.0307	17.0889	0.0737	-70.0	0.033	0	0.87
45	138.3335987	-69.9278577	18.0665	0.0324	17.5769	0.0364	17.4712	0.0998	-32.8	0.057	0	0.73
46	138.2401908	-69.9277430	18.7192	0.0690	18.1149	0.0709	19.5426	0.8036	84.7	0.253	0	0.51
47	138.4099592	-69.9287916	16.4862	0.0165	16.0141	0.0189	16.0875	0.0613	86.9	0.145	0	0.78
48	138.2486194	-69.9287757	17.8934	0.0464	17.0408	0.0380	16.2915	0.0581	88.9	0.305	0	0.46
49	138.4871286	-69.9293057	17.6191	0.0344	17.5286	0.0563	18.3532	0.3664	-88.1	0.147	16	0.67
50	138.3523605	-69.9295419	17.5291	0.0285	17.2627	0.0394	17.3396	0.1284	-79.5	0.153	0	0.88
51	138.1144433	-69.9307369	16.5953	0.0127	15.9224	0.0119	15.7029	0.0289	-68.0	0.520	24	0.77
53	138.2327311	-69.9299687	18.5268	0.0408	17.9448	0.0422	17.7446	0.1062	-82.7	0.174	0	0.51
54	138.4768887	-69.9301386	18.4575	0.0596	17.5834	0.0479	17.4093	0.1241	-37.7	0.339	0	0.02
55	138.2954516	-69.9301467	19.0266	0.0773	18.3584	0.0749	17.9958	0.1634	-45.5	0.117	0	0.49
56	138.3003833	-69.9301604	19.1145	0.0784	18.5248	0.0816	18.3428	0.2101	90.0	0.263	0	0.48
57	138.3728000	-69.9302368	18.7134	0.0707	18.2093	0.0797	17.4455	0.1205	25.6	0.168	0	0.48
58	138.2698733	-69.9314850	17.7748	0.0321	17.1853	0.0332	16.9909	0.0841	-75.1	0.162	0	0.87
60	138.2826863	-69.9313922	18.8845	0.0692	18.0861	0.0595	17.8791	0.1495	-77.4	0.174	0	0.49
61	138.1663510	-69.9320147	17.1688	0.0276	16.7064	0.0321	16.2333	0.0633	-44.2	0.093	0	0.84
63	138.3002512	-69.9351071	16.5119	0.0165	15.8517	0.0159	15.1566	0.0254	-80.3	0.071	3	0.02
65	138.4142294	-69.9324991	18.5683	0.0525	18.1013	0.0608	17.8069	0.1411	-39.8	0.040	0	0.47
66	138.4602103	-69.9329661	17.9099	0.0426	17.2777	0.0426	16.7436	0.0794	-65.6	0.151	0	0.79
67	138.2666317	-69.9329911	17.8825	0.0420	17.2583	0.0423	17.0023	0.1017	45.7	0.071	3	0.79
69	138.4737257	-69.9332047	17.9100	0.0643	17.2436	0.0627	17.0397	0.1587	-62.4	0.372	0	0.00
70	138.2522470	-69.9328967	18.7145	0.0470	18.1292	0.0486	17.8331	0.1120	-61.3	0.069	0	0.50
71	138.3270623	-69.9332600	18.5770	0.0386	17.9199	0.0371	17.6744	0.0892	72.4	0.097	0	0.53
72	138.1705352	-69.9332611	18.9037	0.0807	18.6425	0.1137	18.7770	0.3929	-66.2	0.224	0	0.48
76	138.2540365	-69.9346541	18.8624	0.0604	18.3424	0.0667	18.3096	0.1966	-15.5	0.206	0	0.49
77	138.2337898	-69.9350659	18.4635	0.0402	17.9979	0.0462	18.0682	0.1491	83.8	0.042	0	0.54
79	138.3750141	-69.9361555	17.2696	0.0243	16.8423	0.0290	16.6636	0.0747	-78.7	0.180	0	0.87
81	138.1139822	-69.9358544	17.9058	0.0325	17.5368	0.0409	17.6005	0.1315	-84.6	0.237	24	0.89
82	138.2659605	-69.9361698	18.0075	0.0459	17.5840	0.0556	17.4389	0.1482	-83.3	0.150	0	0.71

Figure A.73: Catalogue for A Field m1p0

85	138.3832799	-69.9370215	17.1864	0.0253	16.8003	0.0315	16.7711	0.0931	-72.7	0.156	0	0.43
86	138.4285055	-69.9368509	18.4839	0.0459	18.4523	0.0789	17.5116	0.1013	86.6	0.071	0	0.50
87	138.4369190	-69.9374596	17.7224	0.0301	17.3703	0.0385	17.2520	0.1047	-77.4	0.631	0	0.05
89	138.2074498	-69.9372441	17.9924	0.0459	17.4107	0.0481	17.4612	0.1532	-89.0	0.167	0	0.73
94	138.4530412	-69.9378938	17.5046	0.0359	16.9183	0.0374	16.6895	0.0922	-43.0	0.022	0	0.84
95	138.1570342	-69.9381319	16.8251	0.0192	16.6056	0.0277	16.4180	0.0707	-85.7	0.153	0	0.87
96	138.2670945	-69.9378576	18.5669	0.0637	17.9244	0.0633	17.6789	0.1538	-82.4	0.161	0	0.43
99	138.2139101	-69.9400523	18.5809	0.0599	18.1524	0.0721	17.6338	0.1365	62.6	0.241	3	0.50
102	138.4655506	-69.9389611	18.6096	0.0750	18.7724	0.1561	18.2524	0.2958	-43.5	0.121	0	0.49
104	138.3180540	-69.9394996	17.8315	0.0287	17.2064	0.0285	16.8075	0.0597	36.0	0.055	3	0.67
105	138.2230819	-69.9393122	18.0918	0.0410	17.5749	0.0454	17.5966	0.1407	9.6	0.201	0	0.52
106	138.4401934	-69.9394827	18.5517	0.0622	17.7219	0.0520	17.7339	0.1599	21.2	0.004	0	0.51
107	138.4113590	-69.9396790	18.8595	0.0688	18.0848	0.0604	17.7796	0.1388	89.0	0.118	0	0.49
110	138.2866775	-69.9407530	17.5240	0.0484	16.5624	0.0360	15.9221	0.0609	-72.0	0.181	0	0.07
111	138.2917024	-69.9407896	18.5874	0.0783	17.6996	0.0623	17.1979	0.1197	89.2	0.431	1	0.02
115	138.1940919	-69.9409970	18.6144	0.0649	18.0543	0.0695	17.3739	0.1133	-44.3	0.128	0	0.47
121	138.4534392	-69.9420404	19.0155	0.0761	18.5960	0.0925	18.3751	0.2302	-74.2	0.211	0	0.49
122	138.1851064	-69.9425548	17.2322	0.0220	16.6137	0.0220	16.3024	0.0498	26.9	0.216	0	0.01
123	138.4747342	-69.9424358	18.0571	0.0334	17.4934	0.0351	17.2357	0.0838	-51.1	0.152	0	0.80
125	138.3368652	-69.9424570	18.4530	0.0609	18.0900	0.0780	18.1291	0.2467	39.2	0.116	3	0.65
126	138.3341214	-69.9430312	18.2254	0.0452	17.6018	0.0454	17.4109	0.1158	35.5	0.099	3	0.68
127	138.1766860	-69.9429629	17.9690	0.0327	17.4795	0.0368	17.2785	0.0926	-84.4	0.118	0	0.84
128	138.4143971	-69.9440774	17.4332	0.0251	17.0479	0.0310	16.8629	0.0793	82.1	0.505	0	0.59
129	138.2347148	-69.9439520	18.0306	0.0479	17.5528	0.0552	17.3977	0.1459	-63.7	0.171	0	0.66
131	138.2602916	-69.9441312	18.5167	0.0473	18.1303	0.0588	17.7008	0.1205	88.7	0.216	0	0.57
132	138.3450493	-69.9453746	16.1807	0.0153	15.5674	0.0154	14.8632	0.0245	-74.7	0.130	0	0.03
133	138.1638210	-69.9444488	17.9235	0.0485	17.4864	0.0581	16.8233	0.0963	20.3	0.312	3	0.01
134	138.1599850	-69.9451731	17.5259	0.0411	17.0425	0.0472	16.7830	0.1133	40.1	0.020	2	0.43
135	138.2737087	-69.9443590	19.2339	0.0867	18.3336	0.0680	18.5775	0.2589	-1.6	0.026	0	0.48
139	138.1876441	-69.9479402	18.4072	0.0472	17.7049	0.0441	17.5047	0.1114	89.7	0.043	0	0.62
140	138.2527969	-69.9479349	18.4383	0.0428	17.9337	0.0476	17.6394	0.1102	50.0	0.129	0	0.50
141	138.2772029	-69.9482114	18.3674	0.0576	17.7647	0.0593	17.1013	0.0982	87.5	0.337	0	0.56
142	138.1993903	-69.9485978	18.1885	0.0588	17.7087	0.0679	18.7117	0.5213	-87.1	0.211	0	0.29
144	138.2078142	-69.9550272	17.5122	0.0299	16.9680	0.0322	16.7483	0.0799	-58.9	0.170	3	0.63
146	138.2031279	-69.9532435	14.9306	0.0044	14.5904	0.0053	14.4325	0.0135	57.5	0.396	3	0.26
148	138.2620961	-69.9498369	18.2742	0.0349	17.7869	0.0392	17.5300	0.0936	-64.1	0.175	0	0.58
149	138.1238910	-69.9503508	18.5314	0.0637	18.1523	0.0805	18.3719	0.3006	-69.7	0.260	0	0.49
151	138.2388811	-69.9509007	17.4104	0.0313	17.1169	0.0425	16.9736	0.1135	77.3	0.065	0	0.82
152	138.3332314	-69.9509571	18.9386	0.0653	18.2986	0.0648	18.3941	0.2149	-36.1	0.010	0	0.50
153	138.2988312	-69.9511611	19.0492	0.0742	18.4110	0.0738	18.1229	0.1723	-65.9	0.221	0	0.49
154	138.3508024	-69.9516393	17.5257	0.0321	16.9289	0.0331	17.0065	0.1079	-74.5	0.172	0	0.61
155	138.3773173	-69.9524285	17.8902	0.0497	17.3275	0.0531	17.4339	0.1786	-82.8	0.169	0	0.51
157	138.1192982	-69.9525613	17.7064	0.0361	17.0540	0.0353	17.0727	0.1091	-49.9	0.137	3	0.85
159	138.1652633	-69.9525977	18.3872	0.0390	17.9513	0.0460	17.6816	0.1088	-63.5	0.264	0	0.48
161	138.3885723	-69.9527725	18.2271	0.0574	17.6547	0.0607	18.3702	0.3577	-61.9	0.184	3	0.64
163	138.3759208	-69.9541230	17.7431	0.0396	17.3408	0.0488	17.8930	0.2473	-84.4	0.116	0	0.81
164	138.3852858	-69.9538960	18.9103	0.0872	18.5560	0.1130	23.3571	28.7007	-85.6	0.135	0	0.50
165	138.3297142	-69.9548108	18.5732	0.0616	17.8722	0.0579	17.0435	0.0823	-29.6	0.073	0	0.47
166	138.4480100	-69.9552367	17.8649	0.0523	17.6946	0.0801	98.9041	99.0000	-65.6	0.058	0	0.35

Figure A.74: Catalogue for A Field m1p0 (cont.)

167	138.3169743	-69.9560730	16.7358	0.0182	16.0662	0.0174	15.8596	0.0434	83.5	0.403	0	0.01
168	138.2380792	-69.9561303	18.5645	0.0441	18.1338	0.0525	17.8285	0.1202	-85.0	0.102	0	0.50
169	138.1262848	-69.9563104	18.0152	0.0418	17.7074	0.0561	17.3148	0.1191	-69.7	0.352	0	0.36
174	138.3067192	-69.9569068	18.4376	0.0612	17.5676	0.0494	16.9378	0.0842	2.7	0.033	0	0.50
175	138.4151199	-69.9574513	16.7485	0.0166	16.2190	0.0180	16.0658	0.0471	-35.0	0.252	0	0.11
176	138.2097908	-69.9583189	18.5532	0.0521	18.0465	0.0582	17.6407	0.1218	-83.5	0.137	0	0.60
178	138.3930256	-69.9585112	18.2764	0.0506	17.6378	0.0503	17.4838	0.1328	-72.7	0.078	0	0.58
183	138.2098281	-69.9600053	18.9214	0.0715	18.6711	0.1015	18.3602	0.2326	-44.8	0.142	0	0.49
184	138.3655003	-69.9613700	17.8828	0.0371	17.2112	0.0356	16.8586	0.0782	64.5	0.159	0	0.43
186	138.2655610	-69.9614910	18.3618	0.0374	17.7786	0.0386	17.6930	0.1079	-74.8	0.124	0	0.58
190	138.2308762	-69.9634522	15.2962	0.0057	14.9886	0.0072	14.8802	0.0193	57.5	0.313	0	0.86
191	138.2833634	-69.9634018	15.5994	0.0083	15.0197	0.0084	14.8379	0.0213	-24.7	0.408	0	0.04
192	138.3409967	-69.9631455	18.0924	0.0514	17.8083	0.0708	17.5013	0.1630	-26.1	0.043	0	0.46
193	138.3963832	-69.9636035	18.7684	0.0605	18.0365	0.0552	18.2050	0.1957	-77.1	0.175	0	0.50
196	138.1411021	-69.9643619	18.2370	0.0509	17.2631	0.0373	16.5401	0.0583	24.0	0.125	0	0.65
197	138.4768049	-69.9647075	17.8877	0.0304	17.3138	0.0317	17.0588	0.0758	86.4	0.085	0	0.84
201	138.1857021	-69.9708499	16.1980	0.0258	15.6195	0.0272	15.3965	0.0677	62.6	0.581	3	0.00
203	138.1786033	-69.9706132	16.8591	0.0201	16.3706	0.0226	16.4486	0.0736	-66.1	0.099	3	0.82
204	138.1378730	-69.9659086	17.7709	0.0317	17.3193	0.0371	17.2702	0.1074	-80.9	0.177	0	0.87
206	138.2804048	-69.9667696	17.4550	0.0385	17.3196	0.0608	17.1225	0.1547	77.3	0.143	0	0.27
207	138.2885807	-69.9668666	17.6380	0.0428	16.7149	0.0329	16.0876	0.0562	-30.8	0.078	0	0.03
208	138.2457038	-69.9667141	18.6064	0.0599	18.0754	0.0657	17.6074	0.1302	-88.9	0.183	0	0.48
209	138.4746116	-69.9671982	18.9808	0.0700	17.9804	0.0500	17.9194	0.1434	-62.3	0.083	0	0.48
210	138.3356362	-69.9674049	18.9042	0.0758	18.5495	0.0978	17.8484	0.1567	-89.4	0.207	0	0.48
215	138.4903368	-69.9689718	18.6769	0.0372	17.9801	0.0344	17.3679	0.0590	-89.6	0.491	24	0.54
216	138.4011906	-69.9691981	18.0078	0.0326	17.6425	0.0411	17.2904	0.0901	-71.4	0.131	0	0.66
217	138.1456285	-69.9702652	17.4619	0.0415	16.6689	0.0360	16.0462	0.0618	87.9	0.550	2	0.02
218	138.1502973	-69.9711452	17.0156	0.0217	16.6913	0.0284	16.3511	0.0631	-58.9	0.078	3	0.88
219	138.2122562	-69.9701798	18.3915	0.0601	17.9961	0.0748	17.6372	0.1640	-70.1	0.204	0	0.65
221	138.2673437	-69.9709547	18.4409	0.0477	18.1286	0.0636	18.6024	0.2989	-74.3	0.127	0	0.61
222	138.2603558	-69.9713558	18.1385	0.0492	17.5963	0.0534	17.9538	0.2261	-73.8	0.213	0	0.61
225	138.2246659	-69.9719475	18.4656	0.0750	17.5049	0.0558	16.8799	0.0958	-62.7	0.316	0	0.54
226	138.3580141	-69.9720578	18.0342	0.0506	17.4846	0.0547	17.7705	0.2168	-83.8	0.074	0	0.68
229	138.1314582	-69.9724897	17.2559	0.0221	16.6866	0.0231	16.3891	0.0530	-72.2	0.118	3	0.69
231	138.4805620	-69.9732410	15.2679	0.0050	14.7785	0.0052	14.6785	0.0138	32.3	0.091	0	0.18
235	138.4369104	-69.9734397	17.3227	0.0272	16.6355	0.0258	16.3304	0.0590	-60.9	0.204	0	0.03
237	138.3873527	-69.9732819	17.5779	0.0397	17.3421	0.0571	17.8650	0.2817	-63.5	0.164	0	0.75
238	138.2690585	-69.9731282	18.8585	0.0725	18.0920	0.0642	18.0864	0.1945	-53.5	0.163	0	0.49
240	138.1928211	-69.9734376	18.3938	0.0632	17.9710	0.0768	17.7668	0.1942	-83.8	0.178	0	0.58
243	138.3633187	-69.9747767	17.7650	0.0354	17.4243	0.0459	17.1931	0.1130	-71.5	0.165	0	0.61
244	138.4523128	-69.9745718	19.0572	0.0754	18.2620	0.0650	18.9835	0.3839	89.4	0.171	0	0.49
245	138.4140828	-69.9751573	18.7121	0.0469	18.0592	0.0456	17.9135	0.1205	-87.7	0.226	0	0.54
246	138.2652560	-69.9752499	18.7143	0.0592	18.2310	0.0677	18.2091	0.2018	-85.6	0.273	0	0.48
247	138.4835963	-69.9760422	17.8135	0.0431	17.2927	0.0478	16.5458	0.0733	-69.5	0.129	0	0.30
248	138.3544484	-69.9761520	18.5237	0.0633	17.9355	0.0660	18.6721	0.3962	83.6	0.082	0	0.62
249	138.1640307	-69.9763386	17.6337	0.0271	17.0293	0.0275	17.1228	0.0903	46.9	0.059	3	0.87
251	138.3040548	-69.9765171	17.4279	0.0264	16.7009	0.0240	16.5685	0.0643	-75.7	0.150	0	0.61
252	138.2975263	-69.9767390	17.1340	0.0254	16.6339	0.0285	16.3954	0.0696	-85.0	0.126	0	0.88
253	138.2812542	-69.9767541	16.8458	0.0239	16.3463	0.0269	16.2066	0.0718	21.6	0.337	0	0.66

Figure A.75: Catalogue for A Field m1p0 (cont.)

257	138.2935067	-69.9789471	16.8547	0.0212	16.5523	0.0285	16.2881	0.0679	-28.9	0.274	3	0.06
258	138.4644585	-69.9772421	17.6013	0.0306	17.4623	0.0476	17.1254	0.1062	-76.1	0.165	0	0.87
259	138.1505518	-69.9766892	18.9173	0.0730	18.4024	0.0814	18.0641	0.1817	45.8	0.143	0	0.48
263	138.2559754	-69.9777111	18.0659	0.0348	17.5493	0.0382	17.5599	0.1169	-75.8	0.224	0	0.74
264	138.1844382	-69.9777677	18.3815	0.0681	17.3109	0.0458	16.7160	0.0808	-20.3	0.032	1	0.15
266	138.2211352	-69.9777239	18.7243	0.0695	18.1348	0.0724	17.7985	0.1619	-43.8	0.087	0	0.49
267	138.2657427	-69.9777141	19.0365	0.0716	18.3471	0.0679	18.2696	0.1923	-89.6	0.269	0	0.47
268	138.1488947	-69.9779146	18.4678	0.0620	17.8510	0.0630	17.2315	0.1087	44.3	0.285	0	0.48
269	138.4117250	-69.9781694	19.0989	0.0752	18.4256	0.0724	18.1410	0.1697	43.7	0.145	0	0.48
270	138.1672258	-69.9786478	18.3164	0.0489	17.8196	0.0552	17.5430	0.1302	73.4	0.143	0	0.62
274	138.3777068	-69.9803763	16.6322	0.0179	16.0243	0.0181	15.8956	0.0487	-84.3	0.149	2	0.89
275	138.3766543	-69.9819181	19.0636	0.0931	18.2601	0.0799	18.0222	0.1958	65.0	0.274	3	0.48
276	138.1510873	-69.9804331	16.8259	0.0230	16.2835	0.0248	15.9147	0.0537	31.8	0.382	0	0.02
277	138.1764287	-69.9802357	17.7540	0.0408	17.4755	0.0563	17.1255	0.1245	76.4	0.055	0	0.85
278	138.4698725	-69.9807541	17.4156	0.0369	17.0351	0.0465	17.5456	0.2268	24.3	0.439	2	0.05
279	138.4763465	-69.9825511	15.0370	0.0045	14.5519	0.0047	14.4202	0.0122	-69.7	0.374	2	0.89
281	138.1572318	-69.9806382	17.2771	0.0340	16.8563	0.0413	17.5692	0.2426	-87.3	0.175	0	0.78
284	138.2419596	-69.9811380	17.7452	0.0359	17.2230	0.0395	16.7713	0.0793	-81.3	0.022	0	0.85
285	138.3855517	-69.9816035	17.4121	0.0251	16.9519	0.0290	16.8359	0.0788	-69.1	0.237	3	0.76
289	138.3118866	-69.9822682	19.1486	0.0787	18.2546	0.0620	18.0520	0.1564	89.7	0.261	0	0.49
291	138.1538708	-69.9835270	17.1922	0.0284	16.7934	0.0350	16.6159	0.0906	-48.5	0.415	0	0.64
296	138.4667449	-69.9847460	18.9760	0.0793	18.5208	0.0934	18.4969	0.2786	71.1	0.291	0	0.49
298	138.4137310	-69.9850359	18.4271	0.0407	17.8911	0.0439	17.7204	0.1136	-59.5	0.147	0	0.49
299	138.1187884	-69.9852005	17.5684	0.0400	17.2130	0.0516	19.1375	0.9246	-64.5	0.145	0	0.29
300	138.4362976	-69.9854836	18.5131	0.0390	17.6732	0.0319	16.8763	0.0463	-53.7	0.123	0	0.63
301	138.3318088	-69.9859358	18.1156	0.0381	17.6174	0.0427	17.8007	0.1533	-72.1	0.230	0	0.69
302	138.1533168	-69.9857336	17.6622	0.0367	17.6232	0.0630	16.9595	0.1045	-89.1	0.053	0	0.60
303	138.1919039	-69.9862968	16.8491	0.0164	16.2088	0.0160	15.8480	0.0345	-57.4	0.215	0	0.09
304	138.4059647	-69.9861138	18.0017	0.0499	17.8000	0.0741	17.8393	0.2346	17.8	0.122	0	0.39
305	138.2762846	-69.9864116	18.1763	0.0540	17.6307	0.0586	17.3871	0.1428	81.6	0.222	0	0.61
307	138.1847571	-69.9867579	18.1211	0.0346	17.6068	0.0380	17.3525	0.0911	-78.3	0.198	0	0.25
309	138.4632675	-69.9870329	17.9532	0.0315	17.4396	0.0346	17.4502	0.1057	-90.0	0.088	0	0.78
310	138.4740872	-69.9877069	18.1078	0.0542	17.0940	0.0383	16.2956	0.0560	-75.3	0.145	0	0.07
313	138.4535676	-69.9880719	18.5161	0.0440	18.2013	0.0582	17.6927	0.1108	-75.1	0.196	0	0.53
314	138.1146885	-69.9887348	16.1956	0.0187	15.6335	0.0199	15.8167	0.0717	83.6	0.403	16	0.00
317	138.3647562	-69.9886462	18.5399	0.0537	18.0307	0.0600	17.7503	0.1410	-85.6	0.245	0	0.51
318	138.2380029	-69.9889476	18.5298	0.0647	17.6655	0.0525	17.7520	0.1730	-70.0	0.158	0	0.66
320	138.4452545	-69.9892447	18.0077	0.0357	17.4212	0.0370	17.1015	0.0835	-63.5	0.076	0	0.79
321	138.1224680	-69.9889634	17.8588	0.0397	17.1449	0.0368	17.2602	0.1243	-11.5	0.368	0	0.45
322	138.2098131	-69.9890845	19.0249	0.0737	18.2534	0.0650	18.2411	0.1953	89.0	0.030	0	0.48
326	138.1996010	-69.9902846	18.2404	0.0576	18.0224	0.0844	18.3292	0.3418	-87.7	0.155	0	0.64
328	138.1706169	-69.9914886	17.0650	0.0197	16.6405	0.0235	16.5186	0.0634	74.8	0.417	0	0.01
331	138.3119518	-69.9911639	18.7034	0.0568	18.3388	0.0723	17.2281	0.0794	74.4	0.289	0	0.47
332	138.1133499	-69.9919061	17.1895	0.0251	16.6292	0.0266	16.3730	0.0637	-89.6	0.564	24	0.81
333	138.1795034	-69.9921714	17.4478	0.0276	17.0365	0.0335	16.8054	0.0822	-88.4	0.148	0	0.89
334	138.2821645	-69.9919886	18.7843	0.0856	18.7634	0.1506	19.8814	1.2891	-77.9	0.208	0	0.51
336	138.2892017	-69.9924132	18.5182	0.0699	18.0003	0.0779	18.5510	0.3945	-41.4	0.225	3	0.64
339	138.4827104	-69.9925108	17.8227	0.0444	17.1027	0.0410	17.3241	0.1531	-68.4	0.163	0	0.65
342	138.4422679	-69.9930620	18.2665	0.0381	17.8568	0.0462	17.5751	0.1080	81.9	0.375	0	0.17

Figure A.76: Catalogue for A Field m1p0 (cont.)

344	138.2265124	-69.9945425	17.4975	0.0236	17.1650	0.0304	17.0747	0.0847	88.6	0.143	0	0.89
345	138.3538712	-69.9945572	17.8297	0.0301	17.3199	0.0332	17.2335	0.0928	-74.6	0.047	0	0.85
347	138.3877762	-70.0010136	16.3976	0.0123	16.0683	0.0158	16.0116	0.0450	33.6	0.099	3	0.78
350	138.3989835	-69.9972181	15.6758	0.0087	15.3377	0.0110	15.2668	0.0309	-15.0	0.425	3	0.06
352	138.1829273	-69.9952032	19.1145	0.0835	19.3476	0.1847	18.6085	0.2862	25.4	0.003	0	0.46
353	138.3119745	-69.9969163	18.6387	0.0475	18.3446	0.0641	17.7996	0.1180	70.3	0.119	0	0.50
357	138.4573624	-69.9979655	17.7830	0.0279	17.3665	0.0335	17.1561	0.0834	-78.3	0.177	3	0.85
358	138.4594712	-69.9987855	17.7080	0.0280	17.1093	0.0285	16.8008	0.0650	-77.2	0.212	3	0.84
359	138.4861941	-69.9976561	18.2632	0.0561	17.6967	0.0597	17.3630	0.1338	-62.1	0.260	0	0.58
360	138.1135675	-69.9977133	18.0659	0.0372	17.6721	0.0459	17.3436	0.1032	86.8	0.287	24	0.69
362	138.3452048	-70.0072135	14.8830	0.0040	14.4752	0.0045	14.3439	0.0115	-88.5	0.165	3	0.89
363	138.1465606	-69.9988560	17.9362	0.0380	17.6970	0.0542	17.3148	0.1161	76.9	0.123	0	0.20
364	138.2031191	-69.9991918	18.0221	0.0375	17.2367	0.0325	17.2128	0.0962	-87.2	0.115	0	0.27
365	138.4262982	-69.9992594	18.0655	0.0388	17.6937	0.0489	16.9740	0.0768	84.8	0.103	0	0.63
369	138.2687891	-69.9996430	18.8502	0.0648	18.5325	0.0862	17.7638	0.1297	89.5	0.109	0	0.49
371	138.3115238	-70.0007322	18.3370	0.0397	18.0102	0.0519	17.4978	0.0984	-85.8	0.198	0	0.50
372	138.4406373	-70.0013717	18.1958	0.0349	17.7545	0.0410	17.5798	0.1057	-36.7	0.063	0	0.70
373	138.2742982	-70.0015495	17.6071	0.0430	17.1903	0.0525	17.0670	0.1430	-65.2	0.076	0	0.51
374	138.2938704	-70.0019329	17.7492	0.0272	17.2234	0.0295	17.0675	0.0773	-80.1	0.174	0	0.87
375	138.1674534	-70.0028629	14.6455	0.0032	14.2993	0.0036	14.1716	0.0092	-58.3	0.241	0	0.69
376	138.1555062	-70.0024963	16.4395	0.0139	16.1684	0.0189	16.0202	0.0499	-88.1	0.193	0	0.84
377	138.2303417	-70.0024032	17.0829	0.0205	16.6352	0.0239	16.4015	0.0584	15.0	0.316	0	0.01
379	138.2423767	-70.0033394	18.4005	0.0403	17.8521	0.0430	17.7653	0.1202	-89.9	0.213	0	0.61
382	138.3222242	-70.0042633	17.5574	0.0248	17.0591	0.0276	16.9852	0.0777	-83.5	0.154	0	0.87
384	138.2351728	-70.0042038	17.9958	0.0462	17.5733	0.0560	17.3210	0.1352	-77.8	0.262	3	0.15
386	138.4467317	-70.0046416	17.6810	0.0301	17.0092	0.0288	16.9955	0.0861	-79.1	0.146	0	0.86
391	138.1741595	-70.0057340	17.1757	0.0307	16.7476	0.0370	16.6195	0.1001	-57.5	0.239	3	0.13
393	138.2975754	-70.0061013	17.9291	0.0315	17.8701	0.0525	17.7069	0.1373	-88.7	0.099	0	0.78
395	138.2798958	-70.0109057	14.7691	0.0054	14.4361	0.0069	14.2149	0.0168	81.3	0.450	3	0.83
396	138.4881056	-70.0070629	18.2230	0.0549	18.0045	0.0804	17.1034	0.1072	-86.8	0.178	16	0.51
397	138.4000919	-70.0073654	17.8123	0.0320	17.3257	0.0362	16.8875	0.0734	79.2	0.091	0	0.79
398	138.2650940	-70.0074657	17.7534	0.0389	17.9434	0.0825	18.0841	0.2867	-86.8	0.123	0	0.71
400	138.2600046	-70.0074614	17.8939	0.0448	17.4924	0.0553	17.4391	0.1606	80.4	0.114	0	0.25
403	138.3334415	-70.0080060	17.8356	0.0500	17.4354	0.0620	17.6348	0.2274	-88.1	0.154	0	0.73
404	138.1428379	-70.0077730	18.0790	0.0343	17.3597	0.0314	17.2054	0.0822	-62.4	0.116	0	0.69
405	138.2353586	-70.0081914	18.0902	0.0408	17.8056	0.0558	18.1494	0.2329	-49.9	0.096	0	0.62
406	138.2898971	-70.0083298	18.2448	0.0719	18.2980	0.1357	19.4304	1.1777	87.0	0.242	0	0.22
407	138.4599139	-70.0087845	18.2573	0.0604	17.5544	0.0568	17.2749	0.1338	-26.4	0.074	0	0.53
410	138.1947106	-70.0090286	18.6710	0.0553	18.2308	0.0657	18.2668	0.2065	-89.7	0.133	0	0.50
412	138.4263234	-70.0095057	18.4930	0.0632	18.3339	0.0977	17.8997	0.2002	-60.1	0.282	0	0.49
413	138.1231481	-70.0098804	17.5571	0.0343	17.1834	0.0433	16.9960	0.1111	-59.5	0.179	0	0.24
414	138.3053167	-70.0103036	17.2267	0.0203	16.6012	0.0200	16.5028	0.0551	54.2	0.186	0	0.85
415	138.2618371	-70.0106584	16.4908	0.0133	15.9736	0.0144	15.7839	0.0364	-83.4	0.320	0	0.88
416	138.3303411	-70.0100881	18.7196	0.0647	17.9249	0.0558	17.6406	0.1308	-87.1	0.136	0	0.53
417	138.1184717	-70.0099677	18.2143	0.0506	17.7021	0.0565	17.7277	0.1763	-19.7	0.089	0	0.30
418	138.1888167	-70.0100563	18.7621	0.0679	18.2711	0.0773	18.1648	0.2137	-62.2	0.064	0	0.50
420	138.4331162	-70.0107939	18.9472	0.0805	17.9111	0.0558	17.0496	0.0770	89.7	0.197	0	0.49
421	138.4200730	-70.0109861	18.1525	0.0472	17.4930	0.0461	17.6864	0.1673	-7.3	0.198	0	0.01
422	138.3261249	-70.0116462	16.7966	0.0202	16.2321	0.0213	16.1766	0.0614	-43.6	0.359	0	0.59

Figure A.77: Catalogue for A Field m1p0 (cont.)

424	138.4784594	-70.0114763	17.5115	0.0311	16.6261	0.0246	15.9895	0.0416	-56.2	0.294	0	0.15
425	138.3430768	-70.0121672	17.2534	0.0238	16.7838	0.0273	16.7635	0.0811	-80.3	0.205	0	0.74
426	138.3602819	-70.0117275	17.9410	0.0457	17.3226	0.0464	16.7457	0.0831	-24.6	0.172	0	0.55
427	138.2145089	-70.0115449	19.1270	0.0774	18.5750	0.0833	18.6206	0.2646	-74.9	0.286	0	0.49
428	138.4442466	-70.0120326	17.8237	0.0485	17.3178	0.0546	16.8213	0.1056	43.2	0.345	2	0.00
429	138.4482159	-70.0118983	17.8070	0.0478	17.5051	0.0649	17.3733	0.1756	-0.9	0.083	3	0.12
432	138.1553727	-70.0128230	17.9370	0.0439	17.6513	0.0602	17.2554	0.1275	-82.4	0.318	0	0.66
434	138.1235581	-70.0134599	17.3439	0.0319	17.1751	0.0487	18.0209	0.3230	-69.2	0.082	0	0.40
435	138.4335046	-70.0141585	14.8360	0.0039	14.5551	0.0049	14.4322	0.0127	-17.7	0.274	0	0.89
437	138.1434589	-70.0143454	17.7984	0.0335	17.1447	0.0326	16.9086	0.0796	-79.0	0.155	0	0.84
439	138.3083843	-70.0147485	18.2050	0.0495	17.7522	0.0583	17.3436	0.1221	-53.8	0.055	0	0.56
440	138.2663185	-70.0149247	18.2233	0.0388	17.6833	0.0418	17.9005	0.1546	78.4	0.160	0	0.74
441	138.3817845	-70.0153708	16.9064	0.0226	16.3839	0.0248	16.2773	0.0682	31.3	0.074	3	0.78
444	138.4162342	-70.0159432	16.9888	0.0209	16.4471	0.0224	16.1730	0.0528	-80.8	0.084	3	0.62
445	138.2972078	-70.0151190	18.7130	0.0793	18.0348	0.0764	18.2449	0.2827	-77.4	0.317	0	0.57
446	138.3441137	-70.0162028	16.6272	0.0155	16.2960	0.0200	16.3699	0.0645	16.0	0.344	0	0.64
450	138.2586861	-70.0165952	17.5750	0.0256	17.1883	0.0316	16.8440	0.0697	-73.6	0.179	0	0.27
451	138.4786967	-70.0164307	18.9223	0.0761	18.1615	0.0678	17.8959	0.1616	89.8	0.149	0	0.48
456	138.4892652	-70.0182921	17.5257	0.0277	17.2791	0.0390	17.4711	0.1412	-86.0	0.158	16	0.85
457	138.2230584	-70.0191134	16.6697	0.0174	16.3742	0.0234	16.0203	0.0512	-29.7	0.319	1	0.86
458	138.4133327	-70.0194158	18.0296	0.0316	17.4103	0.0316	17.0943	0.0713	-78.7	0.082	0	0.63
460	138.3430574	-70.0209686	16.5314	0.0154	15.9583	0.0161	15.8418	0.0435	-85.9	0.229	3	0.77
461	138.2975019	-70.0203254	18.6028	0.0709	18.1327	0.0825	17.9310	0.2091	-57.1	0.061	0	0.51
462	138.4862264	-70.0207613	17.4840	0.0325	16.9985	0.0370	16.5994	0.0780	-65.7	0.322	0	0.01
463	138.3641896	-70.0206381	18.2654	0.0543	17.6150	0.0535	17.6832	0.1734	-84.1	0.193	0	0.32
464	138.3022291	-70.0209473	18.1246	0.0477	17.4241	0.0448	17.2832	0.1197	-79.6	0.184	0	0.15
465	138.2322127	-70.0210667	17.7836	0.0287	17.4521	0.0372	17.4002	0.1074	-84.4	0.193	0	0.85
468	138.2887517	-70.0215741	17.6586	0.0286	16.8904	0.0250	16.6889	0.0628	-71.8	0.115	0	0.87
470	138.2420395	-70.0216317	17.7937	0.0421	17.5053	0.0576	16.9902	0.1095	88.5	0.135	0	0.61
471	138.4250707	-70.0216075	18.7909	0.0501	18.3859	0.0610	18.1743	0.1524	-78.0	0.113	0	0.49
472	138.2171296	-70.0219545	17.5955	0.0403	17.1743	0.0490	17.2841	0.1652	-44.4	0.300	0	0.20
473	138.4120834	-70.0220642	17.9468	0.0293	17.3857	0.0308	17.2098	0.0790	81.9	0.152	0	0.81
475	138.1306897	-70.0227153	16.8252	0.0174	16.5160	0.0229	16.3418	0.0590	-68.7	0.191	3	0.67
478	138.4610480	-70.0226779	18.7476	0.0744	18.1718	0.0786	18.0257	0.2095	-77.7	0.311	0	0.52
479	138.1521137	-70.0225718	18.5474	0.0650	18.0664	0.0748	17.4367	0.1279	-53.6	0.086	0	0.55
483	138.2432234	-70.0241550	16.3370	0.0125	15.8189	0.0135	15.8053	0.0402	-1.9	0.245	0	0.02
486	138.4598191	-70.0247182	17.2631	0.0222	16.8608	0.0269	16.6184	0.0652	-81.8	0.111	0	0.86
487	138.3691648	-70.0251266	17.0229	0.0195	16.6956	0.0253	16.4517	0.0611	-77.5	0.150	3	0.82
489	138.4306955	-70.0247892	17.9733	0.0302	17.8437	0.0469	17.6720	0.1214	-65.3	0.061	0	0.70
491	138.2666324	-70.0252753	18.3807	0.0378	17.8786	0.0420	17.4573	0.0862	71.6	0.137	0	0.63
492	138.2769927	-70.0254847	18.5768	0.0623	18.2809	0.0848	18.1011	0.2192	-64.8	0.086	0	0.49
493	138.3320515	-70.0255752	18.8263	0.0724	18.6494	0.1101	17.9685	0.1797	77.7	0.118	0	0.62
494	138.1638802	-70.0260973	18.6563	0.0409	18.2685	0.0503	17.7460	0.0941	-79.5	0.172	0	0.54
496	138.1509748	-70.0282065	16.5246	0.0150	16.0591	0.0172	15.8812	0.0440	77.1	0.088	3	0.89
501	138.4636840	-70.0276726	18.8550	0.0772	18.0131	0.0639	17.1538	0.0884	87.5	0.113	0	0.52
504	138.2679013	-70.0278971	18.7524	0.0535	18.3153	0.0636	17.9822	0.1423	89.6	0.182	0	0.49
505	138.2342946	-70.0279407	18.8163	0.0674	18.2362	0.0707	17.9637	0.1675	-65.1	0.223	0	0.48
506	138.2785569	-70.0282630	18.2629	0.0379	17.6888	0.0395	18.0815	0.1714	-86.9	0.107	0	0.39
507	138.1996334	-70.0286725	17.1047	0.0341	16.5375	0.0363	15.9662	0.0654	61.7	0.340	0	0.00

Figure A.78: Catalogue for A Field m1p0 (cont.)

508	138.1300815	-70.0284979	17.4415	0.0417	17.0653	0.0529	16.5576	0.1012	-17.7	0.026	1	0.28
511	138.3240477	-70.0294270	18.6155	0.0667	17.9790	0.0666	17.5864	0.1415	63.2	0.116	0	0.48
516	138.1309450	-70.0304537	17.8854	0.0514	17.4733	0.0631	17.3092	0.1657	0.9	0.066	3	0.53
517	138.1274452	-70.0306995	18.2746	0.0650	17.6732	0.0671	18.0752	0.2965	25.7	0.239	3	0.43
519	138.3216187	-70.0308035	18.4764	0.0636	17.6661	0.0542	16.7653	0.0722	81.8	0.166	0	0.48
520	138.1459221	-70.0310025	17.4035	0.0224	16.9827	0.0266	16.5206	0.0527	77.6	0.105	0	0.89
523	138.1953591	-70.0312955	18.7194	0.0694	18.2191	0.0785	17.2346	0.0969	-75.4	0.216	0	0.49
524	138.3114629	-70.0318788	17.9466	0.0430	17.7042	0.0613	17.5627	0.1641	-80.6	0.088	0	0.38
525	138.3906886	-70.0319529	17.8848	0.0288	17.2932	0.0295	17.1411	0.0773	-86.4	0.196	0	0.72
526	138.1761087	-70.0317740	17.9316	0.0310	17.3868	0.0332	17.3769	0.0993	-30.7	0.207	0	0.49
527	138.1860629	-70.0316650	18.8169	0.0486	18.2676	0.0519	18.0840	0.1326	82.9	0.145	0	0.51
528	138.3169270	-70.0317972	18.6924	0.0686	18.1577	0.0751	17.4699	0.1217	60.5	0.013	0	0.49
529	138.3404637	-70.0335866	16.9035	0.0240	16.4484	0.0281	16.1228	0.0633	42.7	0.323	3	0.23
531	138.3501926	-70.0341578	16.9175	0.0159	16.6749	0.0220	16.5753	0.0606	65.7	0.157	3	0.82
534	138.3237837	-70.0332201	18.3123	0.0556	17.8738	0.0664	17.4152	0.1329	-89.1	0.105	0	0.63
536	138.4433998	-70.0363753	15.1512	0.0047	14.6174	0.0047	14.4388	0.0116	62.7	0.203	3	0.77
537	138.2784734	-70.0341222	17.9281	0.0314	17.3948	0.0339	17.6866	0.1340	-85.0	0.104	0	0.81
538	138.4005645	-70.0342220	17.4225	0.0222	16.8053	0.0221	16.5250	0.0515	39.0	0.291	0	0.13
539	138.3746588	-70.0338907	18.8507	0.0713	18.1835	0.0691	18.4619	0.2719	0.9	0.172	0	0.48
540	138.2448340	-70.0341718	18.1791	0.0400	17.6423	0.0434	17.3579	0.1014	-72.3	0.105	0	0.52
541	138.1627221	-70.0342320	18.7517	0.0780	18.2109	0.0851	18.0436	0.2226	79.2	0.193	0	0.54
542	138.1696969	-70.0344009	18.0901	0.0341	17.4199	0.0326	17.2501	0.0842	-87.2	0.044	0	0.76
544	138.4279418	-70.0343113	18.5477	0.0497	18.2604	0.0677	17.8598	0.1425	0.9	0.158	0	0.49
545	138.2955530	-70.0357842	17.5091	0.0280	17.4612	0.0473	16.8995	0.0859	85.4	0.209	1	0.75
550	138.4020640	-70.0366944	18.7728	0.0504	18.3142	0.0585	17.7595	0.1067	-89.7	0.200	0	0.48
552	138.2126350	-70.0380810	17.7694	0.0405	17.4876	0.0557	17.1703	0.1270	54.4	0.406	0	0.53
553	138.2505960	-70.0377770	18.4297	0.0395	17.9533	0.0449	17.4398	0.0849	70.3	0.026	0	0.62
555	138.4216646	-70.0386777	17.5888	0.0232	17.2987	0.0309	17.3172	0.0950	-76.5	0.120	0	0.89
557	138.3465864	-70.0400647	17.2324	0.0276	17.0372	0.0410	17.1818	0.1426	82.7	0.037	0	0.82
558	138.2581057	-70.0398833	18.3908	0.0391	18.0899	0.0522	17.4259	0.0861	89.1	0.104	0	0.65
559	138.2868850	-70.0399491	18.7306	0.0594	18.1972	0.0649	18.1379	0.1868	80.5	0.106	0	0.54
560	138.2953935	-69.9176880	18.6878	0.0555	18.2676	0.0671	18.1676	0.1861	9.7	0.021	16	0.51
562	138.2170276	-70.0403736	18.6800	0.0681	18.2527	0.0823	18.0545	0.2092	21.0	0.003	0	0.48
563	138.4614861	-70.0406022	18.3578	0.0613	17.9823	0.0777	17.9006	0.2199	89.8	0.073	0	0.54
564	138.2733011	-70.0410801	17.1809	0.0205	16.6149	0.0214	16.4070	0.0534	84.7	0.088	0	0.89
565	138.3428087	-70.0411899	18.2926	0.0677	17.8670	0.0822	17.7726	0.2303	-89.4	0.229	0	0.25
567	138.3361748	-70.0416550	18.3278	0.0505	18.3889	0.0951	18.1089	0.2243	84.3	0.126	0	0.51
569	138.3016439	-70.0419468	18.5915	0.0526	17.7712	0.0442	16.9943	0.0657	-80.6	0.239	0	0.35
570	138.3267852	-69.9182443	18.5340	0.0559	17.5951	0.0423	98.9041	99.0000	-70.4	0.166	16	0.61
571	138.2043445	-69.9182131	18.5351	0.0401	17.9799	0.0424	17.8920	0.1182	-54.8	0.119	16	0.66
573	138.3593229	-70.0425882	18.3523	0.0551	17.8187	0.0604	17.7851	0.1783	-80.0	0.185	0	0.63
574	138.4526462	-69.9193844	18.5902	0.0630	18.1650	0.0762	17.9005	0.1823	-19.0	0.151	0	0.61
575	138.2439642	-69.9205252	17.7403	0.0428	17.2069	0.0469	16.2334	0.0584	-21.6	0.070	0	0.12
576	138.3813728	-69.9204459	19.0114	0.0710	18.2376	0.0623	19.4229	0.5633	-45.4	0.144	0	0.48
577	138.3723480	-69.9211539	17.6596	0.0280	16.9079	0.0248	16.1672	0.0381	-54.0	0.199	3	0.73
580	138.2958097	-69.9211115	17.6038	0.0378	17.2054	0.0468	98.9041	99.0000	-36.2	0.057	0	0.70
582	138.2254819	-69.9216736	18.5307	0.0502	17.6644	0.0404	17.7489	0.1323	73.5	0.225	0	0.19
584	138.4620690	-69.9228158	18.0915	0.0338	17.4984	0.0346	17.1239	0.0741	-73.4	0.134	0	0.81
585	138.4891752	-69.9228740	17.6923	0.0263	17.2719	0.0314	17.1495	0.0847	82.4	0.308	24	0.82

Figure A.79: Catalogue for A Field m1p0 (cont.)

586	138.2461574	-69.9228380	19.0097	0.0672	18.4213	0.0698	18.7809	0.2952	-85.3	0.034	0	0.46
588	138.4461816	-69.9250415	17.8472	0.0285	17.3026	0.0304	17.0783	0.0746	-74.2	0.135	0	0.84
589	138.4896048	-69.9250084	17.9941	0.0325	17.5863	0.0394	17.6088	0.1219	-84.2	0.386	24	0.74
590	138.2177290	-69.9247844	18.4713	0.0589	18.3295	0.0923	17.6629	0.1527	1.7	0.016	0	0.50

Figure A.80: Catalogue for A Field m1p0 (cont.)

6	139.1284436	-69.9214956	15.3882	0.0097	14.7981	0.0095	14.6922	0.0264	-87.4	0.241	0	0.01
7	139.0295999	-69.9232534	12.6611	0.0010	12.3240	0.0010	12.2698	0.0025	77.4	0.206	0	0.86
8	139.0093090	-69.9249438	17.0149	0.0297	16.4417	0.0299	16.6992	0.1166	83.5	0.125	0	0.73
9	139.0821557	-69.9262693	17.4409	0.0239	16.8382	0.0232	16.8768	0.0731	68.2	0.055	0	0.65
10	138.9351410	-69.9268416	16.2349	0.0141	15.6498	0.0139	15.8439	0.0508	-75.5	0.037	16	0.85
11	138.8142663	-69.9267809	17.0596	0.0306	16.7471	0.0391	15.7108	0.0465	26.9	0.091	0	0.44
12	139.0937694	-69.9271225	18.0094	0.0470	17.6377	0.0569	18.2988	0.3224	81.8	0.273	0	0.48
13	139.0017076	-69.9281248	16.7188	0.0175	16.4384	0.0226	15.9040	0.0425	-89.5	0.141	16	0.85
15	138.8697374	-69.9286541	16.8798	0.0229	16.5042	0.0275	16.1883	0.0631	-41.0	0.210	24	0.49
17	139.0587583	-69.9231844	16.2943	0.0194	15.9781	0.0247	15.9229	0.0723	82.2	0.167	0	0.30
19	139.1520867	-69.9224563	16.3693	0.0148	15.8898	0.0160	15.8957	0.0491	76.2	0.048	0	0.88
22	138.8214699	-69.9221164	16.5636	0.0266	15.8735	0.0242	15.7670	0.0675	66.3	0.065	3	0.40
23	138.8003952	-69.9203939	16.2314	0.0117	15.7857	0.0129	16.2010	0.0572	-87.6	0.120	3	0.75
24	138.9912001	-69.8079088	16.5873	0.0186	16.0763	0.0197	16.4861	0.0877	-58.9	0.460	0	0.17
31	139.1123923	-69.8000028	16.6792	0.0189	16.3237	0.0230	16.3797	0.0743	60.6	0.074	19	0.80
32	139.1422953	-69.7995983	16.8052	0.0163	16.2412	0.0162	15.9120	0.0364	-82.0	0.165	16	0.86
33	139.0601772	-69.7994311	17.3743	0.0336	16.6794	0.0303	16.4963	0.0787	83.2	0.273	16	0.57
34	138.9670008	-69.8087588	17.8183	0.0480	17.6083	0.0675	18.0693	0.3187	65.8	0.087	0	0.57
36	138.9791332	-69.8094954	17.9078	0.0458	17.3610	0.0473	17.0691	0.1113	-54.0	0.036	0	0.59
37	139.0736521	-69.8108969	16.9965	0.0262	16.2426	0.0224	16.7994	0.1145	42.2	0.097	0	0.75
38	139.1570979	-69.8108079	16.6378	0.0180	16.2507	0.0212	16.6410	0.0930	-5.3	0.327	0	0.01
40	138.9737725	-69.8136103	15.0062	0.0056	14.3735	0.0051	14.5371	0.0178	79.3	0.256	3	0.86
41	138.9690954	-69.8150434	16.2808	0.0156	16.0038	0.0204	15.8932	0.0566	-49.4	0.340	3	0.39
42	139.1468133	-69.8130551	17.0245	0.0184	16.3538	0.0167	16.3325	0.0498	-48.3	0.052	0	0.65
45	139.0584194	-69.8153070	16.4779	0.0261	15.9602	0.0278	16.2578	0.1126	79.9	0.259	0	0.14
46	139.0679259	-69.8143359	18.4747	0.0590	17.7715	0.0528	18.4810	0.3117	53.0	0.236	0	0.36
47	138.8185747	-69.8147323	17.0748	0.0285	16.6982	0.0343	98.8992	99.0000	-24.1	0.073	0	0.50
48	138.8577334	-69.8153785	16.8389	0.0225	16.1675	0.0206	17.3130	0.1813	-84.4	0.126	0	0.71
49	138.8022303	-69.8170476	14.7264	0.0045	14.3693	0.0052	14.7615	0.0223	-48.8	0.055	16	0.85
50	139.0465760	-69.8173451	17.0272	0.0256	16.2711	0.0218	16.5098	0.0831	-76.2	0.080	0	0.83
52	138.8997526	-69.8168756	18.0317	0.0405	17.4695	0.0411	16.9827	0.0807	15.0	0.211	0	0.39
53	139.0320252	-69.8178799	17.1987	0.0314	16.6017	0.0309	17.0422	0.1425	7.8	0.075	0	0.41
54	139.1330753	-69.8179381	17.7514	0.0401	17.1922	0.0409	17.3629	0.1473	38.1	0.069	0	0.46
55	139.1545370	-69.8183018	16.5570	0.0206	16.1682	0.0244	16.2692	0.0823	89.5	0.083	0	0.87
56	138.9397163	-69.8188856	18.1831	0.0458	17.4929	0.0414	17.5448	0.1332	-86.3	0.247	0	0.37
57	138.9783090	-69.8199789	17.4075	0.0279	16.5806	0.0222	16.8143	0.0839	-86.3	0.037	0	0.61
58	138.8431883	-69.8202418	18.2592	0.0548	17.8514	0.0642	18.1696	0.2653	-68.3	0.143	0	0.47
59	139.1348871	-69.8206582	17.5692	0.0371	16.9585	0.0361	16.5090	0.0735	81.0	0.322	0	0.48
60	138.8593215	-69.8209127	17.6356	0.0443	16.8228	0.0359	16.5104	0.0830	47.6	0.094	0	0.38
61	138.8304843	-69.8208802	18.2271	0.0522	17.9616	0.0697	18.3473	0.3066	24.0	0.078	0	0.44
62	138.9231155	-69.8217874	17.0698	0.0294	16.8822	0.0421	16.7268	0.1126	-65.0	0.082	0	0.58
63	139.0215915	-69.8220068	17.6346	0.0397	17.0695	0.0403	17.1641	0.1355	30.6	0.064	0	0.54
64	138.8918238	-69.8220853	17.6952	0.0254	17.0895	0.0245	17.2428	0.0856	64.9	0.054	0	0.51
65	139.1397068	-69.8224799	18.0230	0.0459	17.4775	0.0474	17.2281	0.1161	78.2	0.084	0	0.39
66	138.9811563	-69.8228817	17.6704	0.0393	16.8257	0.0309	16.8751	0.0994	48.9	0.068	0	0.53
67	139.0905267	-69.8231910	17.2433	0.0295	16.5736	0.0271	16.4517	0.0744	85.3	0.190	0	0.64
68	139.0594924	-69.8230809	17.4884	0.0337	17.0671	0.0389	17.6794	0.2100	-75.7	0.457	0	0.47
69	138.8493144	-69.8232750	17.9981	0.0541	17.8038	0.0773	17.5163	0.1835	81.9	0.162	0	0.50
70	138.8703490	-69.8234372	17.2173	0.0376	16.9741	0.0513	17.3831	0.2311	-16.2	0.284	0	0.03

Figure A.81: Catalogue for A Field p1p1

71	138.9396658	-69.8238779	17.2318	0.0328	16.8064	0.0378	17.2111	0.1692	77.3	0.168	0	0.58
72	138.9518854	-69.8243176	16.3020	0.0173	15.8167	0.0188	16.0095	0.0689	-80.2	0.074	0	0.77
73	138.7946313	-69.8237952	17.9640	0.0404	17.0853	0.0307	16.9341	0.0819	-77.4	0.309	16	0.46
77	138.8736185	-69.8258987	15.9698	0.0153	15.5205	0.0172	15.6910	0.0619	67.6	0.108	0	0.39
78	138.8852684	-69.8252747	18.1765	0.0429	17.8554	0.0541	19.1273	0.5361	1.7	0.001	0	0.36
79	138.9390282	-69.8256247	17.6655	0.0405	17.4511	0.0566	18.7311	0.5676	84.1	0.081	0	0.49
80	138.9488253	-69.8260759	18.0279	0.0513	17.5006	0.0539	17.5150	0.1686	-60.0	0.075	0	0.45
81	139.0881975	-69.8267354	16.9321	0.0287	16.3522	0.0287	16.5248	0.1037	79.8	0.114	0	0.42
83	139.1034967	-69.8273811	16.5656	0.0222	16.0999	0.0246	16.3587	0.0961	45.5	0.047	0	0.57
84	138.9881786	-69.8286911	16.2828	0.0158	15.6790	0.0153	15.5128	0.0403	-89.7	0.242	0	0.68
85	138.8000939	-69.8290887	15.6122	0.0085	15.0238	0.0082	15.4588	0.0369	-84.2	0.078	16	0.80
86	138.9242736	-69.8288064	17.2727	0.0337	17.0274	0.0458	17.6210	0.2440	51.5	0.222	3	0.54
88	138.8628895	-69.8293987	15.8371	0.0121	15.1692	0.0111	15.1028	0.0318	-34.9	0.080	3	0.58
89	138.8570937	-69.8310089	14.5807	0.0045	14.1903	0.0051	14.3044	0.0169	56.6	0.107	3	0.78
91	139.0341240	-69.8303620	17.2330	0.0291	17.1180	0.0443	17.4180	0.1800	79.5	0.079	0	0.56
94	139.1285099	-69.8316852	16.4710	0.0179	16.0981	0.0214	15.9166	0.0557	43.3	0.310	0	0.37
95	139.1091352	-69.8314999	17.8733	0.0519	16.9886	0.0395	16.8692	0.1089	-69.1	0.153	0	0.49
96	139.0706173	-69.8333345	17.2772	0.0373	16.8847	0.0444	17.2458	0.1912	-67.0	0.278	0	0.38
100	138.9072426	-69.8342586	17.3464	0.0216	16.9996	0.0263	17.5634	0.1346	-86.9	0.073	0	0.62
101	139.0156298	-69.8345911	17.0444	0.0268	16.3616	0.0244	16.7984	0.1117	69.4	0.086	0	0.53
102	139.0674170	-69.8355174	15.9510	0.0121	15.5420	0.0140	15.8886	0.0588	-12.6	0.045	3	0.54
103	139.0619903	-69.8361773	14.6492	0.0045	14.2956	0.0052	14.2845	0.0154	46.9	0.011	3	0.81
104	138.7934582	-69.8350431	17.1511	0.0229	16.6840	0.0251	17.5838	0.1757	88.9	0.563	24	0.63
105	138.9919985	-69.8366221	16.6871	0.0230	16.3081	0.0275	16.7219	0.1240	-89.3	0.082	0	0.82
106	138.8031470	-69.8369128	17.4337	0.0255	16.8009	0.0241	17.1329	0.0995	-74.0	0.067	0	0.68
107	138.8207166	-69.8377272	17.4995	0.0343	16.7961	0.0307	17.0247	0.1163	-80.1	0.025	0	0.50
108	138.9490424	-69.8386648	16.3803	0.0145	15.9188	0.0160	15.8464	0.0456	36.0	0.060	0	0.36
110	138.8609931	-69.8396728	16.4243	0.0153	16.0467	0.0182	16.2642	0.0679	-81.6	0.104	0	0.89
112	139.0607909	-69.8404740	16.4051	0.0233	15.9070	0.0251	16.3345	0.1147	75.6	0.172	3	0.10
114	139.1602994	-69.8402865	16.9450	0.0199	16.3455	0.0194	16.3127	0.0575	-87.8	0.026	0	0.79
116	139.0971443	-69.8420766	14.2746	0.0034	13.8155	0.0036	13.7978	0.0105	60.6	0.244	0	0.63
117	138.9745038	-69.8412778	16.8965	0.0281	16.3672	0.0295	17.2558	0.2057	-88.5	0.123	0	0.46
119	138.9337859	-69.8417563	18.1938	0.0508	17.7569	0.0579	18.1052	0.2458	-44.0	0.141	0	0.41
120	138.9729449	-69.8430666	17.2474	0.0351	16.7921	0.0395	17.4828	0.2298	56.4	0.136	1	0.60
122	138.8058342	-69.8433687	17.1114	0.0219	16.4834	0.0208	16.5438	0.0672	7.9	0.060	0	0.64
123	138.8957774	-69.8450869	15.4150	0.0082	14.7876	0.0077	14.9115	0.0261	3.0	0.184	0	0.05
125	138.9969695	-69.8458097	17.6454	0.0394	16.8433	0.0322	17.4193	0.1680	69.8	0.083	0	0.58
127	139.1484792	-69.8463467	17.1607	0.0200	16.9351	0.0271	16.7235	0.0683	30.5	0.014	0	0.66
128	139.0582029	-69.8478253	16.2953	0.0216	15.7758	0.0228	15.9115	0.0796	-86.5	0.362	1	0.13
129	139.1166762	-69.8468909	17.2983	0.0285	16.9045	0.0337	17.0474	0.1181	-22.1	0.092	0	0.64
133	138.8959203	-69.8482501	17.2408	0.0378	16.8400	0.0447	17.2533	0.2019	84.1	0.070	0	0.51
134	139.0522551	-69.8482399	17.4679	0.0396	17.0262	0.0450	16.8576	0.1190	-79.3	0.129	0	0.53
135	139.1352732	-69.8485915	17.6834	0.0381	17.0605	0.0366	17.1442	0.1215	-88.3	0.142	0	0.55
136	138.8702220	-69.8509430	14.8455	0.0055	14.4656	0.0063	14.6295	0.0222	85.5	0.155	0	0.85
137	138.9820737	-69.8494439	17.8274	0.0426	17.3331	0.0461	17.6747	0.1945	-10.5	0.132	0	0.48
138	138.9866330	-69.8504051	16.7251	0.0267	16.2233	0.0288	16.6084	0.1263	56.1	0.376	0	0.23
139	138.8999615	-69.8498224	17.8286	0.0432	17.2586	0.0436	17.2598	0.1345	-72.9	0.129	0	0.45
140	139.1033645	-69.8504685	16.9724	0.0182	16.2994	0.0165	16.6559	0.0694	-86.2	0.059	0	0.77
142	138.9035491	-69.8505401	18.3206	0.0509	17.4450	0.0389	17.9211	0.1846	31.7	0.237	0	0.36

Figure A.82: Catalogue for A Field p1p1 (cont.)

144	138.9522461	-69.8519225	17.3046	0.0347	17.0703	0.0476	17.1866	0.1635	-46.6	0.078	0	0.53
145	139.0830096	-69.8524941	18.4054	0.0517	18.1105	0.0670	18.3873	0.2661	-9.0	0.381	0	0.42
146	139.0516052	-69.8527153	18.7595	0.0916	18.2565	0.0989	18.3450	0.3315	49.5	0.133	0	0.48
147	138.9029861	-69.8552940	15.4095	0.0090	14.8109	0.0087	14.8355	0.0272	-84.1	0.411	0	0.02
152	139.1122046	-69.8559030	15.6674	0.0101	15.3304	0.0124	15.3765	0.0395	-81.1	0.109	0	0.82
155	139.0415431	-69.8565936	15.6345	0.0114	15.1495	0.0123	15.5331	0.0535	-64.7	0.049	0	0.65
156	138.8835365	-69.8591869	17.3703	0.0294	16.9714	0.0346	17.6745	0.2028	-89.3	0.099	0	0.57
157	138.8452074	-69.8614056	17.0080	0.0323	16.4619	0.0334	16.7904	0.1394	55.5	0.518	0	0.00
160	138.8954000	-69.8648250	15.8355	0.0105	15.4186	0.0119	15.4774	0.0383	63.0	0.076	3	0.75
162	138.8905636	-69.8684928	14.9266	0.0044	14.4680	0.0046	14.5266	0.0144	61.1	0.209	3	0.52
163	139.1571708	-69.8616610	16.9466	0.0268	16.7660	0.0386	16.8994	0.1346	84.8	0.104	0	0.61
164	139.1173753	-69.8625001	16.5041	0.0190	15.6458	0.0147	15.7439	0.0492	68.4	0.098	0	0.82
165	139.0346629	-69.8624487	17.8757	0.0504	17.2577	0.0488	18.5791	0.5080	-84.8	0.203	0	0.50
166	139.1738649	-69.8624224	18.0259	0.0385	17.3628	0.0355	98.8992	99.0000	-88.3	0.297	24	0.41
168	138.8621102	-69.8634500	17.0606	0.0256	16.6935	0.0310	17.1101	0.1398	50.1	0.038	0	0.61
169	138.9174783	-69.8639105	17.8668	0.0274	17.2801	0.0268	17.7125	0.1212	63.8	0.079	0	0.49
170	138.9282151	-69.8638884	17.5908	0.0317	17.1263	0.0351	17.7117	0.1843	-71.4	0.029	0	0.45
174	139.1143737	-69.8643790	17.4941	0.0402	16.5404	0.0287	15.8962	0.0488	-78.4	0.102	0	0.51
176	138.9294899	-69.8670116	17.6642	0.0311	17.0169	0.0291	17.0047	0.0882	74.4	0.183	0	0.47
180	138.9564646	-69.8688166	16.8937	0.0211	16.1480	0.0181	16.0532	0.0506	47.6	0.481	0	0.18
181	138.8070234	-69.8690593	16.1360	0.0162	15.6235	0.0172	15.7339	0.0583	38.1	0.243	2	0.04
182	138.8019518	-69.8703045	17.5177	0.0392	17.2883	0.0541	18.2309	0.3977	47.6	0.201	3	0.61
183	139.0443486	-69.8712471	13.9845	0.0025	13.5164	0.0025	13.6356	0.0081	87.6	0.235	0	0.62
187	139.0957267	-69.8702865	17.8592	0.0396	17.4546	0.0464	18.1126	0.2613	-36.2	0.006	0	0.49
188	138.9330053	-69.8716491	17.8712	0.0262	17.3591	0.0273	17.3139	0.0796	61.1	0.047	0	0.51
189	138.9221578	-69.8721422	16.9756	0.0180	16.6356	0.0219	16.9000	0.0852	63.4	0.027	0	0.57
190	139.1311418	-69.8717192	18.2709	0.0492	17.9458	0.0620	17.3164	0.1071	-89.9	0.166	0	0.38
192	139.0338461	-69.8727532	17.5618	0.0381	17.1899	0.0461	17.8173	0.2532	-87.5	0.063	0	0.52
193	138.9958796	-69.8726886	18.2560	0.0501	17.5851	0.0461	18.5753	0.3522	-62.8	0.183	0	0.46
194	138.8511307	-69.8733398	17.1223	0.0310	16.3589	0.0262	15.8630	0.0512	-88.1	0.085	0	0.65
196	138.8107280	-69.8730657	17.8139	0.0460	17.3444	0.0510	18.3236	0.3872	23.8	0.144	0	0.65
197	138.9674101	-69.8732499	17.8503	0.0467	17.1872	0.0434	17.9969	0.2815	-60.8	0.077	0	0.44
199	138.9717136	-69.8749273	15.9705	0.0119	15.5057	0.0131	15.8330	0.0538	-70.0	0.060	0	0.81
201	139.1359886	-69.8754996	17.2239	0.0250	16.7696	0.0279	16.9850	0.1041	-65.2	0.109	0	0.63
202	139.0047503	-69.8755192	18.0419	0.0507	17.0237	0.0341	16.6209	0.0724	81.8	0.231	0	0.45
204	138.8682471	-69.8766974	15.3275	0.0094	14.9779	0.0115	15.1600	0.0414	-58.0	0.163	0	0.76
205	138.9447052	-69.8764780	16.9365	0.0171	16.2677	0.0155	16.0001	0.0367	5.3	0.152	0	0.37
206	139.0219451	-69.8767275	17.2015	0.0279	16.6712	0.0291	16.6249	0.0856	-83.7	0.081	0	0.67
207	139.1275149	-69.8768845	17.2721	0.0367	16.5487	0.0323	16.6219	0.1063	-88.4	0.036	0	0.65
208	138.8598093	-69.8768878	17.6130	0.0358	17.0967	0.0379	17.7129	0.2054	80.9	0.046	0	0.64
210	139.1226819	-69.8778820	17.6661	0.0487	17.2520	0.0569	18.4511	0.5300	75.2	0.028	0	0.50
211	139.0476332	-69.8788828	16.9237	0.0223	16.1919	0.0193	16.2138	0.0603	66.0	0.061	0	0.80
212	139.1703917	-69.8784391	17.5915	0.0371	17.0775	0.0394	98.8992	99.0000	83.9	0.097	0	0.48
214	139.0130715	-69.8802312	16.4040	0.0141	16.0368	0.0168	16.3757	0.0701	74.6	0.087	0	0.88
216	138.8912788	-69.8797262	17.7116	0.0387	17.1415	0.0391	17.4683	0.1623	43.8	0.062	0	0.40
217	138.9268475	-69.8803612	16.7499	0.0178	16.2295	0.0186	16.4595	0.0700	-86.7	0.110	0	0.89
218	139.0648352	-69.8803457	17.2325	0.0222	16.9779	0.0295	17.2315	0.1141	-76.9	0.101	0	0.30
220	139.1399762	-69.8808647	16.4691	0.0191	15.9278	0.0198	16.0107	0.0654	49.5	0.312	1	0.37
223	139.1102555	-69.8816652	16.3390	0.0213	15.9360	0.0251	15.9048	0.0751	-74.0	0.430	0	0.21

Figure A.83: Catalogue for A Field p1p1 (cont.)

224	139.1720016	-69.8811023	16.6753	0.0208	15.9936	0.0189	21.1086	6.4169	89.5	0.127	16	0.49
225	138.9955874	-69.8808585	17.7671	0.0461	16.9489	0.0372	17.6078	0.2100	-57.7	0.225	1	0.49
226	138.9446827	-69.8811401	17.9241	0.0380	17.5155	0.0443	18.0296	0.2183	-38.2	0.040	0	0.36
227	138.8985259	-69.8815015	17.7134	0.0341	16.9546	0.0289	16.8681	0.0818	-54.8	0.043	0	0.52
228	138.9596002	-69.8818585	17.7213	0.0268	17.3538	0.0321	17.2747	0.0911	-89.5	0.050	0	0.49
230	139.1214402	-69.8842349	15.8224	0.0119	15.2583	0.0119	15.5626	0.0481	-29.0	0.281	0	0.57
231	138.8044992	-69.8843052	16.4511	0.0197	15.8188	0.0188	16.3906	0.0974	77.3	0.036	0	0.89
233	139.0369722	-69.8853114	17.4672	0.0292	16.7599	0.0259	16.8891	0.0892	-78.7	0.092	0	0.62
235	139.0221261	-69.8869840	14.3729	0.0033	13.9615	0.0035	14.0641	0.0114	-10.2	0.245	0	0.88
236	138.9895103	-69.8859812	17.8799	0.0408	17.5170	0.0497	17.9209	0.2221	61.1	0.037	0	0.52
237	139.0586654	-69.8862107	17.0476	0.0307	16.4219	0.0295	16.6848	0.1155	-81.0	0.440	0	0.39
238	138.9575289	-69.8877433	17.2221	0.0207	16.7114	0.0218	16.6443	0.0623	84.1	0.121	0	0.63
239	138.8744324	-69.8886083	15.9812	0.0142	15.4443	0.0146	15.5678	0.0502	50.6	0.094	0	0.88
240	139.0777314	-69.8885994	16.6828	0.0157	16.2604	0.0177	16.4937	0.0669	63.0	0.036	0	0.88
241	139.1467751	-69.8889631	18.1119	0.0472	17.5236	0.0468	17.9544	0.2140	89.7	0.103	0	0.45
242	138.8094878	-69.8892707	17.7400	0.0490	17.2216	0.0520	18.6717	0.6096	-67.9	0.121	0	0.53
243	138.8412575	-69.8894815	17.4194	0.0347	16.7614	0.0323	16.6256	0.0877	57.1	0.054	0	0.59
245	138.8939521	-69.8913917	17.6592	0.0406	16.9772	0.0371	17.1609	0.1351	86.1	0.349	0	0.07
246	138.8140139	-69.8911860	17.2920	0.0351	16.8563	0.0401	17.2684	0.1808	-54.1	0.109	0	0.62
247	139.0054195	-69.8912750	18.1872	0.0525	17.7970	0.0625	18.2707	0.2979	-58.7	0.089	0	0.48
248	139.0698262	-69.8918223	16.9941	0.0259	16.4651	0.0271	17.0071	0.1370	87.1	0.097	0	0.78
249	138.8043400	-69.8917144	17.3324	0.0289	16.9940	0.0359	17.4938	0.1749	-85.2	0.148	0	0.63
250	139.1072809	-69.8947641	13.1321	0.0015	12.7110	0.0015	12.7337	0.0042	-34.9	0.100	0	0.37
251	139.0372632	-69.8924316	17.0356	0.0219	16.6179	0.0252	16.9877	0.1085	73.6	0.079	0	0.78
254	139.0266836	-69.8944683	16.4437	0.0154	15.7521	0.0138	15.6709	0.0390	50.6	0.084	0	0.88
255	138.9484709	-69.8944214	17.3309	0.0274	17.0032	0.0344	17.2056	0.1271	71.6	0.278	3	0.55
259	138.9586709	-69.8963183	16.9843	0.0192	16.5940	0.0224	16.7900	0.0821	81.2	0.109	0	0.83
261	138.9300531	-69.8978266	17.4277	0.0361	17.0685	0.0443	17.6969	0.2433	-72.8	0.202	0	0.50
262	138.8221552	-69.8977418	18.1201	0.0469	17.5299	0.0465	17.4127	0.1285	3.0	0.047	0	0.45
263	139.1177675	-69.8982016	17.6600	0.0401	17.0042	0.0375	17.1545	0.1325	22.7	0.007	0	0.50
265	139.0799353	-69.9002441	16.5665	0.0146	16.1680	0.0168	16.2962	0.0576	-81.2	0.159	0	0.57
266	138.9692181	-69.9000994	18.0442	0.0510	17.6028	0.0580	17.5423	0.1694	71.8	0.175	0	0.48
268	138.9903455	-69.9007697	16.8126	0.0239	16.0836	0.0209	16.4221	0.0873	-82.2	0.025	0	0.85
269	138.9187756	-69.9005077	18.2399	0.0565	17.8647	0.0683	18.3699	0.3357	76.7	0.083	0	0.48
271	138.9009324	-69.9021483	16.9652	0.0261	16.5204	0.0295	16.4108	0.0820	83.2	0.197	0	0.40
272	138.8140448	-69.9019330	17.8090	0.0433	17.4496	0.0530	17.1661	0.1259	85.0	0.326	0	0.48
273	138.7982823	-69.9029688	17.7090	0.0419	17.0821	0.0402	17.9651	0.2787	-72.4	0.037	0	0.49
274	138.9618589	-69.9033618	17.2953	0.0344	16.7832	0.0366	16.4856	0.0858	-85.2	0.080	0	0.66
276	138.8658006	-69.9052218	15.3268	0.0084	15.0729	0.0111	15.1891	0.0379	1.0	0.131	3	0.72
277	138.8604659	-69.9066484	16.1340	0.0128	15.7691	0.0153	15.6679	0.0426	-90.0	0.083	3	0.69
278	139.1673415	-69.9057704	16.1123	0.0130	15.5111	0.0126	16.0219	0.0614	35.1	0.020	16	0.89
279	139.1184861	-69.9059804	17.9095	0.0424	17.2913	0.0409	17.4188	0.1414	-84.1	0.189	0	0.49
280	138.9630253	-69.9060150	17.5264	0.0386	17.0336	0.0419	16.8743	0.1115	-66.0	0.203	0	0.49
281	139.1379243	-69.9063191	17.6007	0.0308	17.0518	0.0315	17.0076	0.0929	77.2	0.118	0	0.44
282	139.1087650	-69.9066962	16.6236	0.0206	16.1619	0.0228	15.9107	0.0556	54.8	0.043	0	0.87
283	138.9291088	-69.9075061	15.8282	0.0106	15.4263	0.0123	15.6966	0.0479	62.5	0.304	0	0.78
284	138.8480912	-69.9069917	17.4530	0.0370	16.9446	0.0396	17.1571	0.1482	-79.6	0.097	1	0.55
285	138.9710225	-69.9072519	17.9348	0.0459	17.5883	0.0569	18.0288	0.2632	-26.8	0.071	0	0.47
286	139.0131931	-69.9082346	16.9592	0.0238	16.3253	0.0225	16.1868	0.0608	54.3	0.159	3	0.68

Figure A.84: Catalogue for A Field p1p1 (cont.)

287	139.0090822	-69.9098725	16.2121	0.0146	15.7694	0.0163	15.5966	0.0426	45.2	0.097	2	0.65
288	138.9838626	-69.9079665	18.3898	0.0561	17.7360	0.0525	17.4024	0.1188	14.7	0.134	0	0.47
289	138.8831185	-69.9087678	17.5454	0.0379	16.8167	0.0332	16.4039	0.0698	45.0	0.065	0	0.53
290	138.8123906	-69.9103386	14.7963	0.0051	14.1865	0.0048	14.2303	0.0150	79.6	0.276	0	0.13
292	138.9271910	-69.8005117	17.6053	0.0345	17.5249	0.0543	16.9851	0.1019	63.9	0.055	0	0.55
293	139.0716780	-69.9123526	14.4451	0.0037	14.1305	0.0045	14.3044	0.0155	-67.4	0.383	0	0.03
294	138.9269339	-69.9109953	17.3138	0.0397	17.0547	0.0535	16.8443	0.1361	-20.6	0.116	0	0.37
295	138.8531913	-69.9110044	17.5320	0.0330	16.9225	0.0321	17.2210	0.1296	49.1	0.066	0	0.62
296	138.9907157	-69.9111334	17.7619	0.0455	17.0458	0.0403	17.2827	0.1542	59.6	0.191	0	0.49
297	139.0827946	-69.9123036	16.6428	0.0233	15.9704	0.0214	16.2446	0.0845	72.6	0.117	0	0.73
298	139.1179745	-69.8075548	18.0008	0.0487	17.6296	0.0590	17.8766	0.2285	41.1	0.288	0	0.35
299	139.0007217	-69.9123180	17.3740	0.0402	16.7011	0.0371	16.4402	0.0900	63.5	0.300	0	0.01
300	139.1527098	-69.9124786	16.7890	0.0161	16.5191	0.0209	16.5453	0.0653	81.2	0.066	0	0.75
301	138.9203325	-69.9127126	17.3958	0.0374	16.9236	0.0414	16.7534	0.1091	-58.9	0.123	0	0.62
302	138.8189805	-69.9125684	17.9332	0.0479	17.5954	0.0599	17.4008	0.1546	-63.7	0.163	0	0.48
303	138.9357894	-69.9139061	16.5066	0.0245	15.9497	0.0251	16.0911	0.0879	6.5	0.269	2	0.03
304	138.9419062	-69.9134271	17.3983	0.0355	16.9191	0.0389	16.8238	0.1099	12.3	0.265	3	0.49
306	139.1237581	-69.9134132	18.0840	0.0457	17.6152	0.0505	17.9459	0.2108	89.2	0.159	0	0.47
307	139.1110981	-69.9140600	18.1907	0.0552	17.7159	0.0610	17.6262	0.1732	45.4	0.102	0	0.47
308	139.1433271	-69.9159019	15.2443	0.0064	14.9816	0.0082	15.0485	0.0263	31.6	0.219	2	0.86
310	139.1304046	-69.9158645	17.7913	0.0392	17.3994	0.0464	17.7078	0.1899	-90.0	0.189	0	0.50
311	139.0283260	-69.9168926	15.9529	0.0122	15.5062	0.0135	15.4734	0.0401	77.4	0.108	0	0.75
312	139.0877270	-69.9168983	17.1196	0.0196	16.5108	0.0188	16.4725	0.0552	74.3	0.182	0	0.75
314	138.8621647	-69.9174568	16.1087	0.0137	15.8023	0.0174	16.2071	0.0771	60.2	0.109	3	0.84
317	138.9008075	-69.9174339	17.7179	0.0381	16.9608	0.0324	17.5551	0.1718	77.6	0.143	0	0.54
318	139.1518630	-69.8022848	16.1958	0.0117	15.9371	0.0153	15.7452	0.0392	-55.5	0.140	0	0.56
320	138.8892605	-69.8027033	17.7161	0.0310	17.2863	0.0353	17.7067	0.1591	76.8	0.054	0	0.60
321	139.0782770	-69.8026241	18.3051	0.0498	18.1453	0.0731	18.1453	0.2254	-14.8	0.120	0	0.43
322	138.8788286	-69.8088363	16.0937	0.0113	15.6156	0.0121	16.0979	0.0573	84.9	0.596	0	0.85
323	138.8276454	-69.9188203	17.2514	0.0382	16.7250	0.0403	17.0942	0.1746	87.2	0.103	0	0.35
324	138.9347212	-69.9192074	17.0266	0.0219	16.6476	0.0261	16.8047	0.0924	76.1	0.136	0	0.52
325	139.1556654	-69.9197191	16.6183	0.0232	16.3553	0.0310	16.0220	0.0703	89.3	0.081	1	0.42
326	139.1729262	-69.9203258	16.5194	0.0187	15.9097	0.0181	98.8992	99.0000	75.0	0.300	24	0.56
328	139.1075311	-69.8034795	16.5347	0.0153	15.9377	0.0148	15.9006	0.0437	83.2	0.042	0	0.88
329	138.9204689	-69.8043648	14.6781	0.0042	14.1839	0.0042	14.2792	0.0137	-9.9	0.180	0	0.83
330	138.8255350	-69.9211943	17.1641	0.0357	16.3822	0.0298	16.2652	0.0825	65.6	0.423	3	0.00
331	138.8181335	-69.9206158	16.4556	0.0227	16.0169	0.0259	16.7462	0.1561	-66.8	0.049	3	0.43
333	138.9484973	-69.8046627	17.5892	0.0433	17.4067	0.0625	18.2316	0.4127	75.9	0.125	0	0.53
334	138.8094551	-69.9213277	17.2410	0.0360	17.0938	0.0537	98.8992	99.0000	29.4	0.101	0	0.57
335	138.9269879	-69.9215149	17.8981	0.0533	17.1947	0.0478	17.0845	0.1333	8.0	0.158	0	0.49
337	138.9586013	-69.8011928	16.4678	0.0240	16.2977	0.0350	16.2899	0.1072	64.5	0.319	16	0.28
338	138.9247865	-69.9242261	17.7473	0.0425	16.9118	0.0337	16.6241	0.0796	90.0	0.193	0	0.46
339	138.8943556	-69.8059682	16.4463	0.0154	15.8227	0.0147	15.8058	0.0440	-58.9	0.044	0	0.88
340	139.1327778	-69.9244783	18.1430	0.0440	17.5849	0.0448	17.7406	0.1588	81.8	0.026	0	0.43
341	138.9289917	-69.9248938	17.5776	0.0388	16.8791	0.0348	17.1754	0.1407	26.6	0.067	0	0.48
342	139.1491072	-69.8052986	18.1687	0.0525	17.4246	0.0452	17.3131	0.1257	55.2	0.233	0	0.48
343	139.1274594	-69.8058040	17.4539	0.0363	16.9517	0.0391	17.2182	0.1537	-82.7	0.091	0	0.53
344	138.9537466	-69.8066601	17.0119	0.0270	16.5945	0.0312	17.0872	0.1513	-44.7	0.077	0	0.79
345	139.0611063	-69.8083987	14.9823	0.0064	14.6729	0.0080	14.8595	0.0289	-79.5	0.232	0	0.84

Figure A.85: Catalogue for A Field p1p1 (cont.)

346	139.1697868	-69.8065652	17.9170	0.0460	17.2814	0.0438	18.8579	0.5755	2.2	0.035	0	0.49
347	139.0482874	-69.8066786	18.3133	0.0461	18.1591	0.0677	17.8180	0.1525	89.6	0.206	0	0.35

Figure A.86: Catalogue for A Field p1p1 (cont.)

3	138.5413612	-69.9211565	15.3157	0.0073	15.0194	0.0094	15.3020	0.0383	52.7	0.054	0	0.82
7	138.6211559	-69.9240921	15.8880	0.0111	15.6501	0.0153	16.2587	0.0844	68.5	0.095	0	0.70
8	138.4559853	-69.9245393	16.6456	0.0231	16.1658	0.0259	16.4362	0.1056	-82.2	0.122	16	0.45
9	138.4912809	-69.9248161	16.7003	0.0259	16.3304	0.0322	16.0081	0.0762	66.5	0.095	0	0.29
10	138.8142459	-69.9266299	16.7200	0.0263	16.0746	0.0254	16.1248	0.0846	-35.6	0.196	18	0.56
11	138.7822977	-69.9259335	16.5310	0.0137	15.9334	0.0135	16.1445	0.0511	84.5	0.092	0	0.84
12	138.7052033	-69.9266324	17.9089	0.0491	17.4866	0.0582	18.6685	0.5508	47.3	0.100	0	0.57
13	138.6218775	-69.9275944	16.2551	0.0126	15.9040	0.0156	16.4666	0.0823	-74.5	0.056	16	0.67
14	138.6849537	-69.9271456	18.4364	0.0613	18.7561	0.1431	18.0183	0.2322	19.2	0.185	0	0.44
15	138.6098823	-69.9272869	18.2928	0.0591	17.4235	0.0465	19.0014	0.6320	12.9	0.125	0	0.47
16	138.4567963	-69.9274008	17.7718	0.0430	17.0022	0.0370	16.6506	0.0852	-88.3	0.248	16	0.59
17	138.6405718	-69.9275776	17.8382	0.0456	17.3356	0.0501	17.5666	0.1974	63.2	0.322	16	0.58
20	138.6542234	-69.9284784	17.4292	0.0320	17.5764	0.0633	16.5846	0.0813	-0.1	0.608	24	0.53
21	138.6289516	-69.9285033	17.9827	0.0386	17.9191	0.0629	18.4740	0.3341	2.5	0.401	24	0.42
22	138.8121561	-69.9249712	17.5111	0.0387	16.7763	0.0344	16.1758	0.0630	-88.7	0.387	3	0.49
23	138.4513788	-69.9226531	16.8370	0.0202	16.4149	0.0237	17.2099	0.1557	-83.6	0.179	24	0.76
24	138.6522126	-69.9214277	16.1064	0.0142	15.7554	0.0177	15.5337	0.0457	29.5	0.152	3	0.39
25	138.5658647	-69.9241947	17.7538	0.0395	17.3707	0.0483	17.7590	0.2200	-86.0	0.063	0	0.53
26	138.6180358	-69.9209621	15.6947	0.0099	15.3631	0.0125	15.7562	0.0566	36.0	0.111	0	0.80
27	138.8220920	-69.9249061	18.4693	0.0779	17.8620	0.0781	17.0599	0.1194	44.2	0.144	0	0.49
28	138.4900668	-69.9225536	17.0978	0.0355	16.5773	0.0384	17.0424	0.1880	81.0	0.157	0	0.15
30	138.8214101	-69.9220561	16.5042	0.0212	15.8777	0.0208	15.4654	0.0452	76.6	0.043	3	0.82
31	138.4978969	-69.9233190	17.6813	0.0513	17.0464	0.0501	17.7265	0.2991	-64.1	0.097	0	0.20
34	138.5657887	-69.7995357	14.8740	0.0052	14.6076	0.0068	14.6202	0.0215	-22.9	0.075	19	0.72
35	138.5762202	-69.7982964	17.0594	0.0268	17.5959	0.0759	17.1066	0.1547	-13.1	0.364	24	0.49
36	138.5950211	-69.7982488	17.9315	0.0380	19.1350	0.1978	98.8985	99.0000	-0.9	0.116	24	0.49
37	138.6605853	-69.7984884	15.6347	0.0109	15.0205	0.0107	16.6187	0.1472	-5.3	0.467	27	0.08
39	138.7610907	-69.7982255	18.4170	0.0487	19.1827	0.1697	18.9303	0.4303	0.8	0.428	24	0.48
40	138.7043291	-69.7989716	17.9695	0.0452	17.2297	0.0400	17.1027	0.1131	-50.2	0.182	17	0.62
42	138.7640831	-69.8136959	18.4460	0.0541	17.8096	0.0526	18.0324	0.2051	-0.4	0.041	0	0.48
43	138.7978628	-69.8138068	18.8704	0.0830	18.2428	0.0816	17.9955	0.2073	15.3	0.118	0	0.40
46	138.6388866	-69.8145484	18.1808	0.0404	17.3741	0.0334	17.3764	0.1058	-51.8	0.079	0	0.50
47	138.8185557	-69.8147091	17.7961	0.0534	16.9507	0.0430	16.7085	0.1098	67.5	0.113	0	0.51
48	138.7896019	-69.8162769	15.5933	0.0084	15.2352	0.0102	15.2498	0.0324	85.2	0.047	0	0.86
50	138.5941619	-69.8158513	18.6858	0.0649	18.0456	0.0628	18.0332	0.1978	19.9	0.003	0	0.45
51	138.6519332	-69.8174521	14.9316	0.0045	14.5518	0.0051	14.6423	0.0169	-28.3	0.088	0	0.89
52	138.7540752	-69.8169229	17.3943	0.0278	17.2695	0.0427	17.0860	0.1148	-87.9	0.046	3	0.63
54	138.4865940	-69.8172482	17.5894	0.0449	17.2593	0.0579	17.3392	0.1991	82.4	0.528	0	0.17
55	138.5615120	-69.8181016	16.0097	0.0141	15.3225	0.0130	15.4678	0.0470	29.2	0.068	1	0.81
56	138.7382506	-69.8178246	17.8394	0.0480	17.4470	0.0585	17.7732	0.2520	81.6	0.125	0	0.62
59	138.6928166	-69.8183061	18.2884	0.0565	17.5755	0.0512	17.5825	0.1642	-77.3	0.274	0	0.43
60	138.4706057	-69.8189617	17.8008	0.0517	17.2342	0.0537	17.0980	0.1513	-86.1	0.220	0	0.55
61	138.7798498	-69.8199439	16.4729	0.0150	16.2953	0.0218	16.4515	0.0796	-79.6	0.108	0	0.82
62	138.4887186	-69.8203602	15.8844	0.0165	15.3001	0.0168	15.1851	0.0482	6.7	0.349	0	0.01
63	138.4576214	-69.8193959	18.7600	0.0669	18.3830	0.0824	18.5875	0.3172	10.3	0.324	0	0.38
64	138.5709295	-69.8204384	16.4385	0.0165	16.2518	0.0239	16.5622	0.1008	82.0	0.033	0	0.65
65	138.7031244	-69.8208615	16.5931	0.0187	16.2314	0.0232	16.0376	0.0615	59.5	0.098	0	0.03
66	138.8306509	-69.8208758	18.2867	0.0460	17.9942	0.0609	98.8985	99.0000	75.7	0.150	16	0.50
67	138.6398475	-69.8213884	17.0889	0.0192	16.7488	0.0240	17.0619	0.1010	-73.7	0.083	0	0.89

Figure A.87: Catalogue for A Field p0p1

68	138.4984093	-69.8219864	16.2068	0.0165	15.7945	0.0195	16.0930	0.0815	-74.0	0.074	0	0.47
69	138.4688479	-69.8233461	14.1851	0.0026	13.7795	0.0028	13.8739	0.0091	87.9	0.037	0	0.87
70	138.5262234	-69.8226735	16.9632	0.0334	16.8418	0.0522	18.2122	0.5887	74.4	0.253	0	0.37
71	138.7832345	-69.8229291	17.1446	0.0292	16.6536	0.0323	16.7057	0.1079	-81.5	0.068	0	0.78
73	138.7952509	-69.8236436	17.7015	0.0450	16.8630	0.0364	16.3221	0.0705	-83.6	0.224	0	0.53
74	138.5639794	-69.8244368	18.3751	0.0618	17.5775	0.0520	17.7859	0.2004	46.5	0.227	0	0.48
75	138.6944590	-69.8256418	16.3680	0.0226	15.8579	0.0247	16.0561	0.0944	89.7	0.283	0	0.14
76	138.5024736	-69.8254027	16.4147	0.0150	16.0457	0.0183	16.2278	0.0686	66.9	0.049	0	0.89
78	138.6144469	-69.8276316	16.8115	0.0260	16.3758	0.0304	16.7365	0.1348	58.3	0.214	3	0.53
79	138.6137890	-69.8305936	15.1601	0.0068	14.6618	0.0072	14.7565	0.0246	-68.4	0.278	3	0.86
80	138.7337900	-69.8265565	16.6255	0.0260	16.1735	0.0299	16.3316	0.1103	60.4	0.137	0	0.11
81	138.4928212	-69.8265633	16.7872	0.0245	16.3527	0.0286	16.0721	0.0702	-80.4	0.097	0	0.47
82	138.7431478	-69.8276124	17.5806	0.0441	16.9650	0.0438	16.9421	0.1367	65.9	0.224	1	0.59
83	138.6894588	-69.8279190	18.3160	0.0699	17.5210	0.0590	16.9014	0.1065	-8.6	0.053	0	0.50
85	138.7381850	-69.8284447	17.7896	0.0523	16.9632	0.0429	17.6338	0.2536	75.3	0.070	0	0.55
86	138.4892454	-69.8293429	16.9216	0.0235	16.3458	0.0240	16.4920	0.0870	-80.3	0.032	0	0.86
87	138.6304911	-69.8288218	18.5729	0.0586	18.2663	0.0769	18.0641	0.2035	44.5	0.145	0	0.43
89	138.4748684	-69.8311082	14.4250	0.0041	14.0935	0.0050	14.2872	0.0184	63.5	0.323	3	0.03
91	138.4699465	-69.8394323	14.0767	0.0025	13.6205	0.0026	13.6523	0.0079	33.5	0.078	3	0.44
92	138.6408760	-69.8300864	18.1818	0.0531	17.4755	0.0485	17.9810	0.2457	-78.7	0.079	0	0.46
93	138.6625771	-69.8305614	17.6897	0.0296	16.9159	0.0252	17.0113	0.0866	87.7	0.083	0	0.73
94	138.4532929	-69.8307358	16.8821	0.0253	16.6376	0.0350	98.8985	99.0000	-37.8	0.398	25	0.17
96	138.7088828	-69.8320344	17.1045	0.0198	16.6968	0.0232	16.7079	0.0741	52.8	0.024	0	0.82
97	138.6923681	-69.8322928	18.1672	0.0535	17.6469	0.0579	17.6492	0.1849	-38.9	0.153	0	0.55
98	138.5913279	-69.8330521	17.0803	0.0233	16.7223	0.0289	16.8906	0.1072	-68.0	0.166	0	0.71
99	138.7588752	-69.8332633	17.8766	0.0497	17.3495	0.0534	18.0636	0.3288	-79.2	0.132	0	0.58
100	138.6293329	-69.8335122	17.4557	0.0301	16.7499	0.0274	16.3696	0.0612	-65.5	0.131	0	0.52
105	138.7924469	-69.8350379	16.4475	0.0135	16.0054	0.0153	15.9576	0.0460	70.9	0.248	0	0.76
107	138.6912322	-69.8357735	16.2510	0.0140	15.6332	0.0137	15.9162	0.0559	-41.0	0.344	0	0.49
108	138.4964361	-69.8359228	16.3082	0.0181	15.7406	0.0187	15.4324	0.0447	1.0	0.030	0	0.33
111	138.7472014	-69.8358987	17.3424	0.0230	16.8463	0.0251	16.6978	0.0691	27.8	0.054	0	0.86
113	138.8033870	-69.8369137	17.1856	0.0202	16.6146	0.0205	16.4669	0.0563	-72.0	0.016	0	0.87
114	138.6608618	-69.8367497	17.7974	0.0463	17.5153	0.0623	17.5401	0.2035	74.0	0.164	0	0.52
116	138.8207886	-69.8376339	17.5127	0.0310	16.7745	0.0273	16.6045	0.0741	-77.4	0.079	0	0.60
118	138.6931865	-69.8399673	16.9961	0.0264	16.4624	0.0281	16.7023	0.1113	-54.4	0.105	3	0.49
119	138.6544945	-69.8393946	16.7183	0.0183	16.2589	0.0206	16.2750	0.0662	68.0	0.107	0	0.86
121	138.7150592	-69.8393890	18.1020	0.0515	17.8411	0.0706	16.9780	0.1019	-73.2	0.149	0	0.50
123	138.5945327	-69.8407285	16.6683	0.0214	16.3398	0.0274	16.3167	0.0855	72.5	0.094	3	0.59
124	138.5939337	-69.8425952	15.5765	0.0104	15.2105	0.0127	15.4887	0.0519	55.5	0.422	3	0.21
126	138.4964634	-69.8545788	13.7649	0.0028	13.4535	0.0034	13.5102	0.0110	-66.5	0.623	3	0.04
128	138.5516282	-69.8413726	17.6806	0.0427	16.8543	0.0349	16.8778	0.1136	69.0	0.136	0	0.26
129	138.5596391	-69.8415816	17.7230	0.0460	17.3946	0.0593	17.3941	0.1894	-72.3	0.547	0	0.01
130	138.7151897	-69.8418875	17.6996	0.0416	17.0940	0.0416	17.2225	0.1492	-74.8	0.119	0	0.53
131	138.8315617	-69.8425346	19.0273	0.0662	18.4159	0.0656	18.9602	0.3437	84.0	0.359	24	0.37
133	138.5277395	-69.8430487	17.6914	0.0320	17.5261	0.0474	17.6054	0.1623	65.2	0.059	0	0.60
134	138.7723468	-69.8436884	18.1776	0.0387	17.6470	0.0411	17.6051	0.1252	75.8	0.077	0	0.48
135	138.6335516	-69.8438883	18.8666	0.0703	17.8603	0.0488	17.2066	0.0850	89.3	0.202	0	0.46
136	138.6465650	-69.8453512	15.3524	0.0061	14.7407	0.0058	14.8293	0.0195	-33.5	0.045	0	0.84
137	138.7868395	-69.8446119	17.6157	0.0376	17.0615	0.0394	16.4348	0.0705	-84.8	0.025	0	0.30

Figure A.88: Catalogue for A Field p0p1 (cont.)

138	138.7318423	-69.8449070	17.2454	0.0286	16.9994	0.0395	17.3303	0.1704	-87.8	0.158	0	0.43
143	138.6117497	-69.8473695	18.0140	0.0519	17.3137	0.0476	17.0639	0.1206	-77.3	0.033	0	0.49
144	138.7417745	-69.8475184	17.7213	0.0439	17.1522	0.0455	17.0712	0.1345	-64.9	0.120	0	0.61
145	138.5106550	-69.8480550	16.6086	0.0240	16.0566	0.0252	16.2575	0.0964	-9.1	0.072	0	0.08
146	138.8055723	-69.8483213	17.7257	0.0540	17.1925	0.0580	17.7864	0.3198	-30.3	0.284	0	0.42
149	138.7388179	-69.8502118	17.0732	0.0271	16.6047	0.0306	16.7507	0.1113	27.3	0.154	3	0.69
151	138.5172844	-69.8494507	17.2462	0.0398	16.7682	0.0449	15.9164	0.0655	-42.1	0.077	1	0.25
152	138.6666385	-69.8502294	17.2095	0.0296	16.6435	0.0307	16.8637	0.1193	-79.7	0.185	0	0.49
153	138.5016464	-69.8503825	18.2150	0.0947	17.0539	0.0572	17.6651	0.3211	-61.0	0.129	1	0.01
156	138.4574789	-69.8523665	16.4640	0.0131	16.2970	0.0190	16.7478	0.0904	87.0	0.073	0	0.66
157	138.7565936	-69.8525568	17.2564	0.0207	16.8310	0.0240	17.0654	0.0938	-67.4	0.124	0	0.72
158	138.5108256	-69.8523047	18.2220	0.0877	18.6832	0.2354	98.8985	99.0000	-87.3	0.234	0	0.08
159	138.5432369	-69.8523297	17.5318	0.0407	17.7740	0.0885	17.0111	0.1403	-88.6	0.277	0	0.47
160	138.7301190	-69.8526956	17.9926	0.0391	17.6285	0.0485	17.8362	0.1865	85.8	0.211	0	0.48
161	138.5470992	-69.8527716	17.6077	0.0417	17.3648	0.0582	18.0709	0.3559	-43.6	0.244	0	0.47
162	138.5775093	-69.8535809	18.3323	0.0547	17.8059	0.0587	17.7237	0.1735	32.2	0.218	0	0.39
163	138.7755301	-69.8542500	17.2942	0.0345	16.8801	0.0411	16.9478	0.1393	-87.4	0.090	0	0.60
164	138.7916149	-69.8547583	17.1495	0.0334	16.4376	0.0303	16.6866	0.1215	27.6	0.056	0	0.57
165	138.4715487	-69.8546826	17.4406	0.0257	16.9805	0.0290	16.9637	0.0905	-79.0	0.228	0	0.11
166	138.6056510	-69.8550307	17.4780	0.0360	16.9038	0.0370	16.8859	0.1159	45.8	0.169	3	0.28
167	138.6040250	-69.8570900	16.3336	0.0126	15.6060	0.0111	15.5346	0.0325	-88.7	0.240	2	0.22
168	138.5168977	-69.8551274	18.4150	0.0628	17.8560	0.0656	18.0167	0.2426	70.9	0.204	0	0.41
170	138.6748949	-69.8558089	17.2549	0.0299	16.6242	0.0291	16.7092	0.1001	-34.2	0.048	0	0.55
171	138.6195270	-69.8561567	17.8716	0.0441	17.4814	0.0536	17.8468	0.2393	65.2	0.058	0	0.53
172	138.5418866	-69.8561738	18.0301	0.0543	17.8908	0.0833	17.6103	0.2057	-71.8	0.262	0	0.62
173	138.7281654	-69.8562547	17.8619	0.0432	17.3697	0.0478	17.5089	0.1731	72.7	0.152	0	0.48
174	138.7538785	-69.8566834	17.2964	0.0201	16.8782	0.0234	16.9291	0.0771	82.3	0.115	0	0.80
175	138.7359587	-69.8566922	17.6543	0.0266	17.1607	0.0290	17.4963	0.1245	-56.2	0.037	0	0.57
176	138.7810832	-69.8565399	17.5833	0.0417	16.9479	0.0407	17.0654	0.1443	41.2	0.070	0	0.10
177	138.6386732	-69.8576791	17.4199	0.0396	16.9617	0.0454	16.8578	0.1317	-76.7	0.410	0	0.01
178	138.5820698	-69.8578080	17.8313	0.0286	17.4474	0.0344	17.6048	0.1256	-58.1	0.123	0	0.68
179	138.4556839	-69.8588252	15.2295	0.0055	14.6810	0.0055	14.8863	0.0203	-88.7	0.061	16	0.63
180	138.4843062	-69.8580240	17.5608	0.0458	17.1497	0.0548	17.5255	0.2474	43.8	0.053	0	0.12
181	138.5313388	-69.8585913	17.4271	0.0236	16.8849	0.0246	16.8033	0.0720	-67.4	0.038	0	0.75
182	138.6221896	-69.8589267	18.6058	0.0631	17.8984	0.0575	18.0804	0.2162	44.9	0.359	0	0.48
183	138.7165934	-69.8597547	17.6153	0.0246	17.1358	0.0271	17.2870	0.0982	-78.1	0.145	0	0.52
185	138.5957839	-69.8620231	13.4952	0.0019	13.1946	0.0022	13.3010	0.0073	-53.6	0.344	3	0.03
187	138.7960563	-69.8598357	18.4089	0.0647	18.3556	0.1076	17.7920	0.2048	-42.0	0.108	0	0.50
188	138.4790209	-69.8603782	16.3602	0.0158	16.0726	0.0208	16.3632	0.0864	59.5	0.044	0	0.86
189	138.7381076	-69.8606659	16.3096	0.0223	15.9853	0.0288	15.9644	0.0901	23.6	0.352	1	0.57
191	138.6245156	-69.8614521	17.0301	0.0305	16.5543	0.0343	16.6207	0.1162	61.5	0.365	0	0.20
192	138.7439181	-69.8613897	17.5048	0.0427	17.3262	0.0632	17.1816	0.1768	-75.1	0.108	1	0.66
193	138.7850272	-69.8614618	17.4017	0.0258	16.7793	0.0251	16.5004	0.0615	87.8	0.147	3	0.42
194	138.7851502	-69.8628566	17.7516	0.0340	17.3256	0.0398	17.1303	0.1056	87.8	0.243	3	0.49
195	138.6067015	-69.8617000	17.2664	0.0261	16.7004	0.0269	17.0602	0.1185	76.1	0.175	0	0.47
197	138.6935733	-69.8619714	17.7104	0.0268	17.3392	0.0326	17.4145	0.1104	-85.4	0.080	0	0.53
198	138.7492445	-69.8624878	16.5257	0.0172	16.2233	0.0224	16.6382	0.1038	61.3	0.134	3	0.89
199	138.7471138	-69.8644224	16.3387	0.0168	16.1834	0.0250	16.4588	0.1026	74.3	0.176	3	0.72
200	138.4733724	-69.8617342	18.3393	0.0563	17.8405	0.0621	17.7188	0.1769	20.1	0.146	0	0.47

Figure A.89: Catalogue for A Field p0p1 (cont.)

201	138.5423406	-69.8625704	17.3818	0.0337	17.2544	0.0522	17.2317	0.1630	75.0	0.226	0	0.38
202	138.5475503	-69.8627270	17.2497	0.0257	17.0154	0.0358	17.3129	0.1496	76.8	0.022	0	0.79
204	138.7482502	-69.8687754	14.7043	0.0049	14.4126	0.0062	14.3722	0.0187	2.2	0.337	3	0.09
205	138.6460471	-69.8629353	17.7512	0.0458	17.2794	0.0519	18.3151	0.4290	-89.5	0.082	0	0.57
206	138.4527391	-69.8645297	15.9237	0.0094	15.3513	0.0094	15.5914	0.0366	71.3	0.372	24	0.26
207	138.6634871	-69.8678946	13.3407	0.0018	12.9583	0.0019	13.0003	0.0059	76.4	0.403	0	0.03
208	138.6486354	-69.8653703	18.6349	0.0755	18.2276	0.0908	18.0109	0.2375	-62.4	0.082	0	0.45
209	138.7086542	-69.8665664	16.3139	0.0143	16.0692	0.0195	15.9672	0.0563	40.5	0.218	0	0.09
211	138.5356362	-69.8671274	17.7606	0.0429	17.1238	0.0417	16.9015	0.1083	-84.2	0.140	0	0.57
212	138.5690042	-69.8676189	16.9863	0.0167	16.6370	0.0205	16.8184	0.0762	62.7	0.023	0	0.83
213	138.8194529	-69.8676673	16.5952	0.0277	16.1444	0.0320	15.7021	0.0681	-16.5	0.556	0	0.00
214	138.6481639	-69.8681020	17.4386	0.0358	17.0068	0.0419	16.8637	0.1171	-76.0	0.087	0	0.80
215	138.8070868	-69.8689893	15.9299	0.0135	15.5524	0.0165	15.3857	0.0449	36.1	0.227	2	0.03
216	138.8020631	-69.8702428	17.7053	0.0430	17.2258	0.0483	17.5702	0.2113	26.2	0.138	3	0.10
217	138.4972523	-69.8697299	15.7406	0.0102	15.3316	0.0120	15.3883	0.0397	82.4	0.188	2	0.82
218	138.4969535	-69.8721497	17.4206	0.0380	16.8395	0.0389	17.0458	0.1500	-89.6	0.127	3	0.46
219	138.4748719	-69.8684397	17.9561	0.0467	17.5637	0.0568	17.3936	0.1548	36.3	0.210	0	0.57
220	138.6149395	-69.8689655	17.3402	0.0219	16.7538	0.0219	16.8620	0.0761	-87.2	0.061	0	0.71
221	138.4508672	-69.8689439	18.6680	0.0541	18.1749	0.0597	19.4141	0.5925	76.3	0.324	24	0.39
222	138.8145505	-69.8692476	19.0459	0.0995	18.2729	0.0857	17.9348	0.2004	26.4	0.008	0	0.48
227	138.6837736	-69.8650787	17.9679	0.0420	17.6788	0.0559	17.6245	0.1694	-14.0	0.059	0	0.56
228	138.7826292	-69.8767855	16.2012	0.0163	15.7678	0.0190	16.2431	0.0933	65.9	0.336	3	0.72
230	138.7844921	-69.8730070	14.5329	0.0040	14.0545	0.0043	14.1587	0.0145	-47.6	0.373	3	0.33
231	138.5878876	-69.8722230	16.9718	0.0171	16.4388	0.0178	16.4016	0.0541	-89.9	0.055	0	0.87
232	138.5181967	-69.8717588	18.4380	0.0556	17.9595	0.0623	18.1623	0.2392	-64.8	0.118	0	0.46
234	138.8106373	-69.8729867	17.5438	0.0402	17.2645	0.0542	98.8985	99.0000	59.6	0.074	0	0.41
235	138.6576736	-69.8735556	16.8289	0.0286	16.5094	0.0372	16.9838	0.1836	-70.7	0.293	0	0.33
236	138.4834111	-69.8732174	17.3030	0.0229	17.0630	0.0314	17.0741	0.1006	-82.7	0.091	0	0.75
237	138.6328810	-69.8737955	17.0294	0.0190	16.4321	0.0188	16.3311	0.0539	-48.4	0.114	0	0.34
239	138.6211737	-69.8759880	15.2537	0.0061	14.7627	0.0064	14.7244	0.0193	34.2	0.174	2	0.88
240	138.6261712	-69.8754046	17.0576	0.0236	16.6202	0.0272	16.3772	0.0691	69.5	0.082	3	0.87
241	138.5026478	-69.8758374	18.3402	0.0492	17.4758	0.0388	17.6488	0.1441	76.8	0.099	0	0.51
242	138.7762603	-69.8761116	17.4322	0.0350	16.9778	0.0402	17.1768	0.1536	84.6	0.046	0	0.53
243	138.7002871	-69.8767697	16.8949	0.0211	16.4184	0.0235	16.6218	0.0897	-66.5	0.116	0	0.79
244	138.6851595	-69.8770030	17.1251	0.0320	16.7923	0.0410	16.5081	0.1007	-68.9	0.073	0	0.57
245	138.5385397	-69.8775148	17.4263	0.0380	17.1014	0.0492	17.5007	0.2265	-16.3	0.056	0	0.65
246	138.5438310	-69.8776255	17.9894	0.0559	17.8333	0.0847	17.7573	0.2523	-64.8	0.225	0	0.49
248	138.5737671	-69.8783444	17.1967	0.0222	16.8283	0.0272	16.7612	0.0809	83.9	0.079	0	0.82
251	138.6654478	-69.8799013	17.8491	0.0479	17.4517	0.0580	17.4701	0.1882	72.3	0.077	0	0.62
252	138.7354915	-69.8804040	16.6099	0.0233	16.4156	0.0338	17.8712	0.4118	39.5	0.060	0	0.64
253	138.6380166	-69.8802579	17.4787	0.0241	16.9626	0.0257	16.9453	0.0798	-76.1	0.141	0	0.69
255	138.6066538	-69.8803618	17.7848	0.0283	17.3120	0.0314	17.5716	0.1260	77.3	0.069	0	0.61
257	138.4872354	-69.8809368	16.6759	0.0243	16.0921	0.0247	16.0964	0.0790	-74.7	0.043	0	0.20
258	138.6421559	-69.8817158	17.3816	0.0232	17.1554	0.0322	18.1112	0.2455	-71.4	0.131	0	0.68
259	138.7851321	-69.8823086	16.2178	0.0128	15.7986	0.0149	15.9923	0.0560	62.6	0.495	0	0.25
262	138.7393873	-69.8837120	14.2449	0.0029	13.6990	0.0028	13.5963	0.0075	44.4	0.109	0	0.87
263	138.5023793	-69.8825724	17.0043	0.0206	16.3484	0.0195	16.2365	0.0555	20.8	0.247	0	0.62
264	138.8141074	-69.8821870	18.6907	0.0822	18.1313	0.0861	17.9729	0.2376	-64.1	0.125	0	0.49
265	138.5190331	-69.8821510	18.6511	0.0624	17.8066	0.0502	17.9786	0.1867	88.3	0.029	0	0.44

Figure A.90: Catalogue for A Field p0p1 (cont.)

266	138.6607476	-69.8830939	16.4265	0.0165	15.9367	0.0181	16.0995	0.0667	-80.3	0.069	0	0.79
267	138.6965594	-69.8825710	18.0868	0.0501	17.5803	0.0548	17.1480	0.1174	47.0	0.257	0	0.40
268	138.4830219	-69.8836139	16.2113	0.0166	15.6863	0.0178	15.8182	0.0638	47.9	0.272	0	0.46
269	138.7286669	-69.8834660	18.0682	0.0510	18.0571	0.0879	16.9126	0.0980	4.8	0.466	1	0.42
270	138.8044497	-69.8842495	16.3151	0.0168	15.7541	0.0174	15.6557	0.0504	-78.4	0.130	2	0.86
271	138.8061415	-69.8860314	18.2342	0.0689	17.7568	0.0778	17.5742	0.2102	83.2	0.083	3	0.52
273	138.6137060	-69.8850470	17.1963	0.0212	16.6789	0.0226	16.5342	0.0625	-83.8	0.133	0	0.79
274	138.7982240	-69.8847147	18.2680	0.0581	17.8715	0.0704	18.5756	0.4295	-82.8	0.022	0	0.47
275	138.7301930	-69.8862989	16.2250	0.0175	16.0142	0.0250	16.1795	0.0927	83.1	0.191	0	0.38
276	138.5430161	-69.8859067	17.4861	0.0459	17.3591	0.0714	17.8231	0.3498	-87.1	0.334	0	0.03
277	138.5123915	-69.8858990	17.9937	0.0515	17.8046	0.0755	18.7922	0.5985	69.6	0.140	0	0.50
278	138.5860642	-69.8871404	17.5041	0.0339	16.9643	0.0359	17.3595	0.1643	89.9	0.076	0	0.49
283	138.5996788	-69.8908414	16.1507	0.0125	15.7661	0.0150	16.1674	0.0682	75.0	0.109	3	0.86
284	138.5068086	-69.8875507	18.4465	0.0530	17.6463	0.0443	18.4813	0.3029	-44.0	0.051	0	0.49
285	138.5445836	-69.8890737	16.6934	0.0250	16.5901	0.0394	16.6215	0.1296	39.9	0.063	0	0.49
286	138.7241086	-69.8894304	16.8720	0.0215	16.4847	0.0260	16.5269	0.0858	84.1	0.054	0	0.89
287	138.8096313	-69.8891507	17.6054	0.0456	17.2368	0.0568	17.9601	0.3532	54.0	0.162	0	0.49
289	138.7644735	-69.8898563	17.9505	0.0512	17.1365	0.0424	16.4871	0.0743	81.3	0.126	0	0.61
290	138.7554010	-69.8898330	18.6472	0.0659	18.2762	0.0817	19.3201	0.6809	85.3	0.245	0	0.37
291	138.4624259	-69.8935971	11.4540	0.0005	10.9735	0.0004	10.9566	0.0010	-41.7	0.150	16	0.76
292	138.4824574	-69.8913427	16.0283	0.0131	15.5014	0.0139	15.6360	0.0498	-69.7	0.090	0	0.33
293	138.4894579	-69.8908656	17.8971	0.0622	17.1985	0.0574	17.0614	0.1615	-87.2	0.090	0	0.17
294	138.8138682	-69.8911020	17.5540	0.0445	16.8531	0.0409	16.6410	0.1073	-24.1	0.071	0	0.22
295	138.8042499	-69.8916257	17.0680	0.0201	16.7558	0.0258	16.9389	0.0965	77.0	0.076	0	0.89
296	138.4964445	-69.8910431	18.5627	0.0665	18.2355	0.0859	18.2032	0.2663	23.3	0.003	0	0.48
297	138.7134457	-69.8918351	17.5476	0.0359	16.9797	0.0371	16.8700	0.1067	-76.6	0.087	0	0.62
298	138.6798590	-69.8924285	16.6245	0.0156	16.3504	0.0206	16.5789	0.0804	75.1	0.047	0	0.83
299	138.4997100	-69.8929534	16.4572	0.0164	16.0154	0.0188	16.2530	0.0739	-52.8	0.144	0	0.06
301	138.7641411	-69.8938853	15.8344	0.0105	15.2189	0.0102	15.2122	0.0319	-47.6	0.409	2	0.81
302	138.7711478	-69.8939944	16.5210	0.0177	16.0344	0.0196	16.0344	0.0620	-2.2	0.080	3	0.85
303	138.5681873	-69.8933830	17.3177	0.0230	16.8735	0.0263	16.8322	0.0799	-66.1	0.029	0	0.80
304	138.6529723	-69.8932355	17.8434	0.0426	16.8833	0.0308	16.4431	0.0653	64.9	0.254	0	0.46
305	138.7925446	-69.8931976	18.3033	0.0531	17.4916	0.0440	16.9278	0.0832	52.6	0.158	0	0.35
308	138.5102730	-69.8991362	15.6732	0.0087	15.0787	0.0085	15.0928	0.0269	57.5	0.115	3	0.89
309	138.8292528	-69.8941322	18.2231	0.0573	17.5973	0.0563	18.2036	0.3137	-74.5	0.142	16	0.47
310	138.5748088	-69.8961360	16.2713	0.0123	15.7946	0.0135	15.8452	0.0443	-57.8	0.079	3	0.89
311	138.5798734	-69.8971501	16.8358	0.0190	16.5010	0.0239	16.7734	0.0973	-23.8	0.027	3	0.83
312	138.6133566	-69.8957719	17.3649	0.0238	16.7649	0.0237	16.7491	0.0736	74.6	0.055	0	0.48
313	138.6689369	-69.8964587	18.0669	0.0537	17.7977	0.0732	17.1556	0.1295	-65.3	0.123	0	0.49
315	138.6967787	-69.9019301	15.2190	0.0060	14.7015	0.0062	14.6147	0.0177	56.2	0.016	3	0.55
316	138.6769757	-69.9050597	15.9567	0.0118	15.6539	0.0152	15.6532	0.0481	-88.9	0.215	3	0.64
318	138.6736734	-69.9019849	14.3765	0.0031	14.0257	0.0036	14.1495	0.0121	-39.1	0.143	3	0.03
319	138.8220517	-69.8976430	18.0237	0.0456	17.3520	0.0429	17.2101	0.1198	50.2	0.057	0	0.62
320	138.6918481	-69.8984847	18.7385	0.0813	17.6962	0.0547	17.0228	0.0938	-85.8	0.277	0	0.48
321	138.6434770	-69.8987029	18.5010	0.0653	17.7544	0.0575	18.4267	0.3398	-42.5	0.089	0	0.46
322	138.6490425	-69.8993741	18.6375	0.0722	18.0944	0.0766	18.7608	0.4511	-79.7	0.195	0	0.48
323	138.5217465	-69.9000715	16.5707	0.0216	16.3488	0.0305	16.7582	0.1417	-66.6	0.083	3	0.63
324	138.5263654	-69.9011284	17.0120	0.0217	16.8576	0.0323	17.0662	0.1245	-44.7	0.080	3	0.81
325	138.6167659	-69.8998440	17.5780	0.0415	17.0902	0.0463	16.7910	0.1121	-86.7	0.355	0	0.22

Figure A.91: Catalogue for A Field p0p1 (cont.)

326	138.7691509	-69.9006608	16.1718	0.0130	15.8876	0.0172	16.1098	0.0665	83.3	0.154	3	0.78
327	138.7674376	-69.9034112	14.9240	0.0050	14.3216	0.0048	14.1328	0.0123	74.6	0.011	3	0.12
328	138.7815774	-69.9007182	17.1446	0.0204	16.7994	0.0255	16.9023	0.0885	85.4	0.123	0	0.84
330	138.5362376	-69.9015337	18.1583	0.0600	17.6832	0.0678	17.9009	0.2643	-89.9	0.119	0	0.56
331	138.8140126	-69.9018391	17.7632	0.0402	17.1489	0.0399	17.0518	0.1160	-89.5	0.106	0	0.37
332	138.5011707	-69.9021293	16.6580	0.0191	16.1653	0.0209	16.2613	0.0724	51.6	0.094	0	0.69
333	138.4933617	-69.9014527	18.4916	0.0556	17.7050	0.0470	17.0833	0.0844	44.7	0.419	0	0.35
334	138.7224381	-69.9026827	16.6149	0.0257	15.9930	0.0253	16.1233	0.0909	-37.2	0.058	3	0.23
335	138.7256126	-69.9040421	16.8077	0.0301	16.1670	0.0292	16.5064	0.1270	68.3	0.028	3	0.17
336	138.7571080	-69.9029574	17.1517	0.0372	16.5253	0.0366	16.0718	0.0769	-70.1	0.352	0	0.06
337	138.7982359	-69.9029002	17.5829	0.0254	17.1072	0.0281	17.0777	0.0865	-83.7	0.068	0	0.65
338	138.4578300	-69.9029975	16.5539	0.0156	16.1981	0.0192	16.6927	0.0957	42.7	0.051	0	0.85
339	138.4654716	-69.9031691	17.2534	0.0356	16.8251	0.0419	17.3691	0.2203	-22.3	0.183	0	0.25
340	138.5128622	-69.9031200	18.1587	0.0533	17.7993	0.0668	17.7799	0.2093	43.8	0.094	0	0.49
342	138.7526597	-69.9050568	17.4357	0.0394	16.7353	0.0362	17.1841	0.1741	-6.9	0.154	0	0.35
343	138.7146059	-69.9053022	17.2723	0.0393	16.8541	0.0468	16.8208	0.1448	64.2	0.061	1	0.00
344	138.4513344	-69.9057745	17.0531	0.0171	16.3473	0.0153	16.4792	0.0539	88.2	0.231	24	0.87
345	138.4694462	-69.9061968	17.2651	0.0296	16.6348	0.0289	16.5363	0.0838	-44.8	0.141	0	0.53
346	138.6983567	-69.9063114	18.0218	0.0478	17.8518	0.0711	18.0536	0.2732	89.4	0.286	0	0.52
347	138.6401925	-69.9073400	16.8127	0.0184	16.3209	0.0201	16.7151	0.0911	72.0	0.116	0	0.61
348	138.5607634	-69.9066596	18.5399	0.0610	17.8533	0.0567	18.3924	0.2962	66.3	0.278	0	0.48
349	138.8004268	-69.9069292	18.5592	0.0644	17.7335	0.0527	17.2796	0.1106	68.6	0.152	0	0.48
350	138.5943333	-69.9078714	17.2218	0.0211	16.7812	0.0242	16.8582	0.0818	75.7	0.082	0	0.84
351	138.6033799	-69.9073803	18.7350	0.0728	17.9054	0.0594	17.9943	0.2054	74.0	0.108	0	0.46
352	138.6487405	-69.9080126	18.5739	0.0639	18.2215	0.0806	17.9411	0.1988	75.0	0.219	0	0.46
353	138.4751324	-69.9087839	16.7677	0.0160	16.2543	0.0171	16.2188	0.0520	75.8	0.119	0	0.87
354	138.7908661	-69.9085870	18.0294	0.0372	17.3320	0.0340	17.3776	0.1121	82.4	0.057	0	0.52
355	138.8123204	-69.9102347	14.7218	0.0048	14.1720	0.0048	14.0619	0.0135	80.2	0.239	0	0.19
356	138.5807963	-69.9086328	17.9823	0.0449	17.5263	0.0514	17.8635	0.2233	85.8	0.120	0	0.48
357	138.7479748	-69.9090704	18.4382	0.0569	17.4911	0.0417	16.8957	0.0766	6.0	0.217	0	0.46
359	138.5146417	-69.9093810	18.5004	0.0573	17.9133	0.0583	18.5278	0.3263	63.7	0.117	0	0.41
360	138.5767787	-69.9095704	18.1284	0.0479	17.6623	0.0544	17.8132	0.1990	-89.7	0.272	0	0.54
361	138.4506011	-69.9100009	18.7620	0.0604	18.2033	0.0628	98.8985	99.0000	-75.8	0.219	16	0.36
363	138.6540912	-69.9110963	18.0601	0.0483	17.5621	0.0533	17.9057	0.2328	-77.4	0.168	0	0.63
364	138.7125854	-69.9119807	16.1192	0.0117	15.7180	0.0137	15.9157	0.0518	-58.1	0.371	0	0.17
365	138.6016514	-69.9119962	16.3284	0.0133	15.6806	0.0126	15.4948	0.0332	55.7	0.191	3	0.02
366	138.6037495	-69.9136246	15.8237	0.0108	15.2136	0.0106	15.2833	0.0355	-71.5	0.261	3	0.57
367	138.7545440	-69.9119064	17.0420	0.0187	16.7261	0.0239	16.9958	0.0965	79.9	0.054	0	0.78
368	138.5307302	-69.9113344	17.9835	0.0472	17.3123	0.0445	16.6029	0.0738	10.8	0.203	0	0.35
369	138.8190072	-69.9125354	18.1279	0.0704	17.7490	0.0871	17.5908	0.2408	74.2	0.043	0	0.60
370	138.5422860	-69.9124537	17.8083	0.0470	17.6098	0.0683	17.5466	0.2058	64.6	0.326	0	0.52
373	138.7283305	-69.9146318	17.3144	0.0356	16.8197	0.0394	16.9105	0.1366	-70.5	0.185	0	0.11
374	138.5846557	-69.9150117	16.4292	0.0127	15.8471	0.0127	15.8829	0.0411	55.1	0.053	0	0.83
375	138.4754157	-69.9150592	16.3992	0.0136	15.8344	0.0139	15.9304	0.0476	-69.6	0.046	0	0.68
376	138.5006638	-69.9149726	18.3004	0.0547	17.3080	0.0385	17.0787	0.0989	69.0	0.405	0	0.35
378	138.7078904	-69.9165286	16.7093	0.0175	16.3108	0.0209	16.5137	0.0796	-39.7	0.038	0	0.81
379	138.5288281	-69.9166285	16.5764	0.0195	16.1072	0.0219	16.2267	0.0775	72.9	0.070	0	0.75
380	138.7835469	-69.9170419	16.6167	0.0148	16.2861	0.0186	16.2954	0.0590	18.4	0.154	0	0.78
381	138.5366236	-69.9175669	15.9944	0.0126	15.4157	0.0128	15.5307	0.0448	81.9	0.039	0	0.88

Figure A.92: Catalogue for A Field p0p1 (cont.)

382	138.4789754	-69.9176636	16.9232	0.0233	16.3857	0.0247	16.5698	0.0928	87.0	0.075	0	0.49
383	138.6545513	-69.8010745	17.9825	0.0479	17.5355	0.0554	98.8985	99.0000	40.9	0.127	0	0.47
384	138.7043998	-69.8121738	17.1745	0.0328	16.8363	0.0419	16.7616	0.1248	81.0	0.126	0	0.72
385	138.5983107	-69.9180699	16.8580	0.0194	16.1966	0.0183	16.3451	0.0661	59.9	0.127	2	0.68
386	138.5953933	-69.9204517	16.6353	0.0250	16.1527	0.0279	16.4686	0.1190	51.4	0.409	3	0.01
387	138.6786780	-69.9186742	17.3031	0.0372	16.7824	0.0402	16.6845	0.1173	56.5	0.091	0	0.04
388	138.8278481	-69.9186967	16.9929	0.0268	16.6729	0.0347	17.2101	0.1810	15.0	0.047	16	0.66
389	138.6993227	-69.9192302	15.9131	0.0101	15.6530	0.0134	15.9989	0.0580	76.7	0.066	0	0.85
390	138.6427131	-69.9196720	16.8794	0.0239	16.7770	0.0376	17.1210	0.1642	77.8	0.096	0	0.83
391	138.4530837	-69.9191498	18.3473	0.0516	17.6909	0.0492	17.7638	0.1672	43.7	0.151	0	0.35
392	138.6631943	-69.8123340	17.8915	0.0540	17.7451	0.0824	18.7371	0.6567	74.7	0.227	1	0.49
393	138.7957182	-69.8012545	17.5739	0.0352	17.1868	0.0429	98.8985	99.0000	32.6	0.257	1	0.48
395	138.8255597	-69.9209754	17.0903	0.0329	16.5902	0.0363	16.0552	0.0708	75.1	0.310	3	0.10
396	138.8182125	-69.9204993	16.8508	0.0273	16.1091	0.0241	15.9662	0.0672	67.6	0.036	3	0.30
397	138.7350520	-69.8135949	16.9164	0.0273	16.6419	0.0369	17.0087	0.1648	-62.4	0.051	0	0.32
398	138.5824238	-69.7999014	18.0568	0.0500	17.8270	0.0706	19.2001	0.7971	-36.5	0.038	0	0.48
399	138.5594246	-69.8017379	17.2225	0.0324	18.0796	0.1235	19.3543	1.2784	54.4	0.029	0	0.49
400	138.5214246	-69.9208932	17.5548	0.0341	16.8346	0.0306	17.3039	0.1497	75.7	0.153	0	0.66
401	138.6465519	-69.8021261	18.8987	0.0741	18.6032	0.0985	19.3769	0.6404	57.8	0.202	0	0.47
402	138.8095959	-69.9212866	17.4893	0.0523	16.7437	0.0462	16.9415	0.1771	29.1	0.238	1	0.24
403	138.6402677	-69.9223744	17.5045	0.0385	17.2117	0.0512	17.9107	0.3107	-45.6	0.079	0	0.09
406	138.4625986	-69.9225100	18.2689	0.0717	17.7243	0.0761	18.3315	0.4254	-82.1	0.098	0	0.33
407	138.6642368	-69.8036790	17.3184	0.0366	16.7995	0.0396	98.8985	99.0000	-48.4	0.070	0	0.46
408	138.6093464	-69.9228970	17.9853	0.0543	17.7363	0.0754	17.5489	0.2027	79.5	0.111	0	0.58
410	138.7085244	-69.8142972	17.1032	0.0277	16.5197	0.0282	16.0547	0.0584	-87.8	0.116	0	0.77
411	138.7896373	-69.8007253	15.7005	0.0123	15.2698	0.0143	15.6842	0.0664	14.9	0.152	16	0.50
412	138.7775331	-69.8042298	17.7508	0.0322	17.2538	0.0353	17.3542	0.1227	-21.3	0.011	0	0.67
413	138.6048415	-69.8062249	15.9954	0.0121	15.5298	0.0135	15.5191	0.0422	-76.0	0.251	0	0.38
415	138.6513136	-69.8063332	17.7964	0.0354	17.4223	0.0434	17.0173	0.0952	57.6	0.058	0	0.26
418	138.6818517	-69.8088461	14.9679	0.0053	14.5717	0.0061	14.4436	0.0169	18.5	0.241	3	0.03
419	138.7125327	-69.8065018	17.1266	0.0299	16.8323	0.0396	17.2271	0.1817	-83.0	0.242	3	0.49
422	138.5957354	-69.8074785	17.7099	0.0481	16.9569	0.0421	16.8778	0.1249	64.0	0.083	0	0.55
423	138.7364871	-69.8086127	16.7030	0.0183	16.3065	0.0218	16.2651	0.0665	-20.3	0.030	1	0.82
426	138.5513432	-69.8095868	18.8261	0.0707	18.2659	0.0737	19.1556	0.5322	80.0	0.237	0	0.48

Figure A.93: Catalogue for A Field p0p1 (cont.)

1	138.4345129	-69.9188360	14.4182	0.0042	13.4114	0.0028	13.7748	0.0111	-60.1	0.380	0	0.74
2	138.3915429	-69.9293004	13.6079	0.0022	10.1146	0.0003	10.3325	0.0006	8.0	0.048	26	0.84
4	138.2429445	-69.9205061	16.0473	0.0264	15.0181	0.0108	15.3148	0.0416	72.7	0.655	3	0.00
6	138.3749911	-69.9226361	15.5703	0.0108	13.8577	0.0032	14.1723	0.0120	-64.3	0.412	3	0.87
7	138.3785268	-69.9243482	16.3142	0.0175	16.3237	0.0276	16.2394	0.0757	81.3	0.122	3	0.68
9	138.2878606	-69.9261455	14.1346	0.0027	16.5493	0.0263	16.8578	0.1034	26.3	0.097	0	0.89
10	138.2409046	-69.9272059	16.3847	0.0236	17.5290	0.0383	17.2158	0.0849	83.5	0.667	16	0.00
11	138.1115115	-69.9264901	16.9327	0.0267	17.9005	0.0571	18.5907	0.3198	10.8	0.385	0	0.24
12	138.4290600	-69.9280193	17.2710	0.0323	15.9835	0.0216	16.8348	0.1402	89.1	0.711	16	0.36
13	138.4103877	-69.9287914	17.0904	0.0254	16.8624	0.0269	16.4728	0.0556	74.8	0.159	16	0.66
14	138.2483335	-69.9288386	17.6522	0.0401	17.6572	0.0503	18.8193	0.4346	40.9	0.219	16	0.47
15	138.4874440	-69.9293232	18.0753	0.0448	16.8161	0.0383	17.8525	0.2952	84.0	0.129	16	0.59
16	138.3525946	-69.9294444	18.2494	0.0463	14.7519	0.0062	15.2938	0.0291	63.0	0.034	24	0.50
17	138.4566938	-69.9275403	18.4058	0.0592	14.2490	0.0060	14.2262	0.0171	-89.7	0.144	0	0.43
18	138.4911708	-69.9250435	17.2384	0.0238	14.2962	0.0049	14.7128	0.0208	-81.9	0.115	16	0.51
19	138.1674583	-69.9275808	18.6190	0.0631	16.6049	0.0266	17.3716	0.1592	75.1	0.288	0	0.47
20	138.3338822	-69.9278126	18.4654	0.0609	15.9929	0.0224	16.8702	0.1491	1.4	0.182	0	0.46
21	138.2389583	-69.9175166	15.6591	0.0172	20.6653	0.5544	98.8985	99.0000	79.0	0.185	2	0.50
22	138.4558573	-69.9247681	16.9943	0.0274	20.3427	0.2237	19.8359	0.4179	-87.3	0.058	0	0.89
24	138.1435492	-69.9260703	18.1166	0.0559	17.4935	0.0342	18.9698	0.3913	66.4	0.172	0	0.49
25	138.4198667	-69.9163884	14.7745	0.0054	17.4936	0.0407	17.6926	0.1447	85.2	0.153	3	0.12
26	138.4509960	-69.9228823	16.9951	0.0226	16.6244	0.0184	17.5469	0.1250	82.3	0.090	0	0.87
27	138.4466205	-69.9250259	18.2721	0.0520	16.5027	0.0236	16.8182	0.0929	-42.6	0.088	0	0.47
31	138.2253202	-69.7978562	18.0673	0.0327	16.9559	0.0391	18.7958	0.6315	2.4	0.568	24	0.63
32	138.2744710	-69.7980716	17.8567	0.0343	17.6974	0.0615	19.1671	0.7069	-13.2	0.239	24	0.56
34	138.3549506	-69.7984585	17.1203	0.0234	18.7882	0.1154	19.5168	0.6717	59.4	0.049	24	0.75
35	138.3955019	-69.7983892	16.5575	0.0233	17.0987	0.0322	17.6212	0.1537	-73.4	0.121	24	0.18
36	138.3089818	-69.7988688	17.9087	0.0410	14.9092	0.0064	15.5324	0.0326	-50.1	0.114	16	0.63
38	138.2908912	-69.8004418	16.8711	0.0330	17.1191	0.0486	17.5665	0.2184	87.3	0.550	16	0.04
39	138.4047221	-69.8111385	14.6034	0.0038	14.3440	0.0047	14.8304	0.0208	-9.3	0.062	0	0.82
40	138.2385139	-69.8099445	18.0354	0.0681	17.5023	0.0597	18.3137	0.3749	-79.2	0.086	0	0.56
41	138.2686639	-69.8109533	17.8146	0.0457	14.7915	0.0113	15.2939	0.0531	-75.8	0.029	0	0.60
42	138.4429921	-69.8109587	18.4516	0.0582	17.3258	0.0494	18.1709	0.3196	44.8	0.153	0	0.45
43	138.2555790	-69.8116473	17.4473	0.0437	17.0321	0.0455	18.5063	0.5261	-81.1	0.154	0	0.62
44	138.4192753	-69.8120339	17.9262	0.0565	17.5322	0.0595	18.8442	0.5926	-45.9	0.016	0	0.51
45	138.4141239	-69.8128006	16.8906	0.0296	16.4710	0.0336	16.9563	0.1563	-81.7	0.079	0	0.67
46	138.4291135	-69.8195251	13.1845	0.0016	17.6576	0.0564	17.7983	0.1908	85.8	0.446	3	0.84
47	138.4303889	-69.8250190	14.1618	0.0029	16.8448	0.0411	17.2842	0.1830	88.4	0.238	2	0.88
48	138.2746918	-69.8127533	18.6527	0.0699	16.2834	0.0327	16.8808	0.1683	-76.5	0.137	0	0.42
49	138.2836258	-69.8133384	17.0370	0.0401	16.7338	0.0400	16.8880	0.1370	-26.0	0.632	1	0.00
50	138.2916038	-69.8139828	16.7307	0.0294	15.4456	0.0127	15.5792	0.0422	-68.2	0.154	3	0.26
51	138.2941725	-69.8147421	17.2436	0.0386	15.2090	0.0102	15.7429	0.0486	89.5	0.140	3	0.19
52	138.2168616	-69.8136932	18.1406	0.0493	16.2890	0.0202	16.5397	0.0749	-84.3	0.325	0	0.38
53	138.2301178	-69.8153584	16.1025	0.0135	12.8236	0.0016	13.1447	0.0057	-87.7	0.053	3	0.68
54	138.2333853	-69.8165451	15.6827	0.0092	13.7968	0.0032	14.2084	0.0131	39.3	0.035	3	0.59
55	138.3259115	-69.8154161	16.8466	0.0195	17.5174	0.0476	18.2189	0.2693	-87.9	0.071	0	0.71
56	138.3043119	-69.8154389	17.9872	0.0460	16.9996	0.0441	17.7361	0.2581	89.5	0.150	0	0.49
57	138.3771731	-69.8160837	17.5016	0.0439	15.9941	0.0176	16.3184	0.0700	63.7	0.040	0	0.63
58	138.1420584	-69.8170516	16.8627	0.0232	15.8361	0.0197	16.4038	0.0985	-16.1	0.150	3	0.89

Figure A.94: Catalogue for A Field m1p1

59	138.1394279	-69.8176504	16.3158	0.0186	17.1063	0.0496	17.2818	0.1736	-66.9	0.134	3	0.59
60	138.2240985	-69.8170703	17.3311	0.0414	17.2179	0.0522	17.7304	0.2490	64.2	0.250	3	0.14
62	138.2442190	-69.8171134	18.0818	0.0485	14.4378	0.0049	14.9366	0.0220	-90.0	0.458	0	0.42
63	138.2515641	-69.8180274	17.4639	0.0407	16.0365	0.0309	16.3242	0.1198	-82.4	0.206	0	0.57
66	138.3981815	-69.8208884	16.3537	0.0264	14.4615	0.0048	14.7792	0.0184	38.0	0.533	3	0.14
68	138.3118712	-69.8213434	14.7638	0.0041	15.4539	0.0132	15.2918	0.0335	-63.4	0.069	3	0.89
69	138.4707048	-69.8191036	18.1417	0.0436	16.7597	0.0277	17.6456	0.1847	84.0	0.131	0	0.50
70	138.2438431	-69.8193146	18.3237	0.0502	16.3024	0.0299	16.3134	0.0898	89.8	0.341	0	0.42
71	138.4883485	-69.8205252	16.0192	0.0133	15.9784	0.0296	16.6550	0.1639	11.2	0.387	16	0.08
72	138.3254042	-69.8210786	17.3522	0.0266	13.7820	0.0028	14.0220	0.0096	-56.3	0.034	0	0.75
73	138.1430663	-69.8213446	16.7839	0.0294	14.3822	0.0050	14.7919	0.0209	83.4	0.040	0	0.78
74	138.2462158	-69.8224367	15.8672	0.0208	13.8834	0.0030	14.2547	0.0117	52.3	0.424	0	0.01
76	138.2960038	-69.8222226	18.5924	0.0720	14.0391	0.0051	14.5562	0.0240	44.1	0.148	0	0.45
77	138.1387653	-69.8240667	14.7441	0.0043	12.3299	0.0010	12.6030	0.0032	-74.1	0.047	3	0.86
79	138.2314369	-69.8230979	18.6316	0.0666	16.8519	0.0263	17.0234	0.0908	-45.0	0.165	0	0.47
81	138.2804943	-69.8300781	14.3639	0.0041	17.9961	0.0761	18.7537	0.4549	-55.9	0.398	3	0.03
84	138.3103731	-69.8255410	17.1812	0.0221	15.5644	0.0113	15.9632	0.0477	82.7	0.046	0	0.85
85	138.3278906	-69.8259377	17.7828	0.0455	16.5075	0.0219	15.9460	0.0386	-85.3	0.267	0	0.43
87	138.1473805	-69.8260778	18.1383	0.0612	10.9599	0.0004	11.1351	0.0011	-50.1	0.134	0	0.51
88	138.3432665	-69.8265798	18.0719	0.0568	13.5842	0.0028	13.8813	0.0105	79.1	0.434	0	0.47
89	138.2045391	-69.8279636	16.2372	0.0133	14.8331	0.0063	15.3414	0.0290	73.6	0.062	0	0.88
90	138.3235044	-69.8286325	15.7211	0.0107	16.2862	0.0369	16.7938	0.1756	39.5	0.318	0	0.10
92	138.1714081	-69.8279865	18.6015	0.0623	15.2952	0.0205	15.8204	0.0987	0.7	0.264	0	0.40
93	138.1117673	-69.8283438	18.4333	0.0537	16.7515	0.0307	17.5576	0.1910	48.6	0.334	0	0.39
95	138.4327816	-69.8303296	16.4131	0.0249	15.9424	0.0141	16.2510	0.0549	73.7	0.083	3	0.16
96	138.4277695	-69.8331588	15.6608	0.0112	16.3999	0.0256	16.9450	0.1253	-85.1	0.077	3	0.74
97	138.4286839	-69.8371539	15.5975	0.0166	17.6961	0.0589	18.3895	0.3315	71.8	0.528	3	0.17
98	138.4747669	-69.8312322	14.3092	0.0041	17.5942	0.0677	18.3941	0.4212	68.0	0.313	3	0.06
100	138.4698348	-69.8396111	14.0320	0.0027	14.0043	0.0035	14.3338	0.0132	17.5	0.089	3	0.66
102	138.4507665	-69.8304561	17.2973	0.0274	15.8903	0.0188	16.3764	0.0870	-86.8	0.120	3	0.60
103	138.4538456	-69.8310298	16.7484	0.0266	17.1226	0.0330	17.5559	0.1453	-70.0	0.156	3	0.47
105	138.3160891	-69.8310343	17.9726	0.0482	14.7545	0.0059	15.1832	0.0248	-89.1	0.095	0	0.27
106	138.1863926	-69.8313069	16.8829	0.0240	16.2552	0.0219	16.6922	0.0968	-89.3	0.063	0	0.87
108	138.3434481	-69.8330358	14.4921	0.0034	14.2349	0.0042	14.7470	0.0190	78.2	0.045	3	0.89
109	138.3452134	-69.8349473	15.3757	0.0065	12.3636	0.0010	12.6037	0.0031	52.0	0.069	3	0.76
110	138.3344143	-69.8326769	16.4197	0.0171	12.5359	0.0018	12.8625	0.0067	-76.3	0.074	1	0.53
111	138.3845394	-69.8328113	17.5969	0.0277	16.9943	0.0381	17.3498	0.1569	-52.8	0.060	0	0.60
112	138.4136708	-69.8328514	17.4289	0.0253	15.1137	0.0107	15.0970	0.0309	78.5	0.084	0	0.78
114	138.3968238	-69.8333273	16.5634	0.0176	16.0568	0.0233	16.3249	0.0882	-73.1	0.043	0	0.80
117	138.2391868	-69.8379289	13.0057	0.0017	13.2183	0.0019	13.5720	0.0071	-51.9	0.304	3	0.40
118	138.2922635	-69.8339425	16.6669	0.0258	15.1679	0.0089	15.4476	0.0336	72.8	0.184	0	0.03
119	138.3712120	-69.8336043	17.5953	0.0393	14.1044	0.0039	14.6199	0.0177	44.7	0.051	0	0.60
120	138.1030221	-69.8343414	17.3785	0.0372	15.1802	0.0082	15.4124	0.0294	-80.9	0.304	0	0.40
121	138.3655419	-69.8352222	15.7469	0.0111	13.1876	0.0018	13.6025	0.0068	59.4	0.258	1	0.42
122	138.3111905	-69.8351567	16.5325	0.0204	12.0472	0.0008	12.3442	0.0027	-70.6	0.189	2	0.82
123	138.3128639	-69.8367158	17.5884	0.0407	17.2954	0.0576	17.6285	0.2330	-81.7	0.176	3	0.56
126	138.3594431	-69.8446558	15.5111	0.0073	17.3511	0.0375	17.9047	0.1846	32.4	0.061	3	0.38
127	138.3566025	-69.8378603	14.3948	0.0033	16.3302	0.0185	16.9987	0.1005	-79.1	0.099	3	0.82
131	138.2245892	-69.8374583	17.8101	0.0649	17.6146	0.0583	17.5061	0.1568	-52.7	0.026	0	0.17

Figure A.95: Catalogue for A Field m1p1 (cont.)

133	138.4185427	-69.8381186	16.6942	0.0181	16.7307	0.0350	17.1044	0.1466	-31.3	0.342	0	0.31
135	138.3814461	-69.8379247	18.0307	0.0417	15.0625	0.0078	15.6319	0.0380	-7.8	0.090	0	0.65
136	138.3162350	-69.8386004	18.6433	0.0685	15.7095	0.0131	16.5058	0.0798	-45.7	0.147	0	0.45
138	138.2088952	-69.8407398	15.1470	0.0056	16.6419	0.0197	17.5841	0.1369	83.6	0.100	3	0.81
139	138.3080118	-69.8394886	18.1994	0.0608	16.7920	0.0262	17.5333	0.1528	82.9	0.240	0	0.51
140	138.3268067	-69.8399975	17.9877	0.0481	16.0410	0.0153	16.2248	0.0530	73.3	0.073	0	0.53
142	138.4303907	-69.8410573	17.2199	0.0291	15.4647	0.0107	15.9382	0.0480	90.0	0.715	0	0.42
143	138.1028405	-69.8417345	16.8824	0.0247	17.5923	0.0497	17.9995	0.2143	88.6	0.135	0	0.82
145	138.4163169	-69.8444267	15.9479	0.0096	15.2871	0.0113	15.7754	0.0521	60.1	0.015	3	0.82
147	138.1567633	-69.8431311	16.9940	0.0228	17.0481	0.0312	18.3686	0.3107	-76.7	0.067	0	0.87
148	138.1101276	-69.8431495	17.3163	0.0230	12.4875	0.0012	12.7669	0.0038	68.7	0.112	0	0.74
149	138.3202168	-69.8436784	17.1753	0.0230	17.1387	0.0477	16.4055	0.0723	-77.9	0.115	0	0.88
150	138.3117248	-69.8452595	16.5270	0.0147	15.3029	0.0106	15.7931	0.0485	52.7	0.150	0	0.35
151	138.4302771	-69.8446497	18.0455	0.0467	14.2182	0.0040	14.7140	0.0177	90.0	0.274	0	0.46
154	138.2963382	-69.8454556	17.9041	0.0549	17.0157	0.0386	17.5061	0.1797	36.4	0.063	0	0.50
155	138.1913121	-69.8480681	14.9811	0.0073	15.7014	0.0147	16.0848	0.0614	75.6	0.390	0	0.02
157	138.2727490	-69.8475067	15.6292	0.0094	15.0760	0.0065	14.8881	0.0156	-16.6	0.158	0	0.20
158	138.1284871	-69.8473853	17.4470	0.0250	17.2642	0.0430	16.7335	0.0785	-77.3	0.056	0	0.60
160	138.1011428	-69.8480704	17.4092	0.0415	15.1038	0.0083	15.5123	0.0351	73.0	0.210	16	0.46
161	138.4094537	-69.8494939	15.8612	0.0104	8.3389	0.0001	8.4586	0.0002	78.7	0.119	3	0.80
163	138.2266963	-69.8486580	18.7474	0.0753	15.3652	0.0097	15.7753	0.0409	45.1	0.143	0	0.40
164	138.4213013	-69.8494605	17.6847	0.0508	17.4824	0.0537	17.4811	0.1594	28.7	0.051	0	0.38
166	138.1809975	-69.8498569	17.5387	0.0372	16.9646	0.0229	17.5977	0.1198	76.2	0.168	0	0.65
169	138.2534906	-69.8728537	13.1547	0.0029	12.8959	0.0015	13.2448	0.0053	-52.6	0.378	3	0.03
172	138.4937016	-69.8554606	17.5876	0.0336	15.3224	0.0101	15.9068	0.0502	-89.3	0.668	27	0.48
174	138.3036119	-69.8530146	15.4856	0.0073	15.2786	0.0155	16.4707	0.1371	-57.8	0.237	0	0.12
176	138.1714721	-69.8525484	18.7426	0.0660	16.1780	0.0197	16.7839	0.1016	0.4	0.200	0	0.37
178	138.2008276	-69.8541834	18.0112	0.0531	17.1741	0.0381	17.1302	0.1086	-71.3	0.170	0	0.65
179	138.4715992	-69.8548431	17.3454	0.0379	17.8594	0.0595	18.5548	0.3349	-81.2	0.360	0	0.04
180	138.3829555	-69.8546359	17.5097	0.0246	14.6832	0.0056	15.1109	0.0235	-68.9	0.059	0	0.52
181	138.3370394	-69.8551910	17.8940	0.0364	14.4338	0.0045	14.9428	0.0202	61.7	0.139	0	0.51
182	138.4297692	-69.8564090	15.8479	0.0163	15.9538	0.0157	17.0266	0.1233	89.9	0.517	0	0.38
183	138.3215675	-69.8567780	14.1449	0.0027	17.2048	0.0322	17.3795	0.1117	-70.8	0.041	3	0.82
185	138.2915586	-69.8558710	17.8079	0.0455	16.9173	0.0346	17.0024	0.1110	-77.2	0.148	0	0.39
186	138.1839777	-69.8565403	15.7102	0.0087	16.6492	0.0188	17.0180	0.0772	-79.7	0.065	0	0.88
187	138.1319333	-69.8564543	16.8850	0.0271	17.0443	0.0370	17.0804	0.1135	85.3	0.134	0	0.61
188	138.2685879	-69.8573150	15.4815	0.0115	16.0309	0.0197	16.3749	0.0797	-88.6	0.081	0	0.08
190	138.1458442	-69.8571591	16.5093	0.0161	17.0186	0.0605	17.4729	0.2742	-75.9	0.162	0	0.61
191	138.1620625	-69.8570943	18.1265	0.0534	15.5070	0.0104	15.9624	0.0461	-37.0	0.108	0	0.48
192	138.1746076	-69.8572786	18.5434	0.0666	16.0971	0.0164	16.5646	0.0738	74.7	0.139	0	0.37
193	138.4842231	-69.8581970	17.6476	0.0294	17.2502	0.0384	17.4627	0.1383	-74.9	0.192	0	0.75
194	138.4453100	-69.8579838	18.1569	0.0476	16.7600	0.0253	17.0615	0.0983	79.0	0.103	0	0.47
198	138.3604825	-69.8597893	17.6054	0.0263	17.3229	0.0405	17.9274	0.2090	58.2	0.054	0	0.55
199	138.4787136	-69.8605700	16.2938	0.0165	15.1703	0.0089	16.1122	0.0617	-76.8	0.083	0	0.85
200	138.3053813	-69.8613905	17.6193	0.0367	14.9077	0.0077	15.4429	0.0367	-89.8	0.058	0	0.59
201	138.3878938	-69.8621683	17.1560	0.0195	16.2216	0.0316	17.2660	0.2458	-84.2	0.091	0	0.62
202	138.4732639	-69.8618942	18.0121	0.0547	15.2799	0.0095	15.9241	0.0502	-64.5	0.202	0	0.48
203	138.1023575	-69.8619310	17.2252	0.0331	16.6106	0.0206	16.8951	0.0785	82.4	0.215	0	0.58
204	138.1587023	-69.8625922	16.4317	0.0170	16.1767	0.0170	16.7830	0.0873	79.4	0.102	0	0.84

Figure A.96: Catalogue for A Field m1p1 (cont.)

205	138.1935484	-69.8623597	17.5249	0.0267	16.2100	0.0199	16.2509	0.0609	-87.4	0.159	0	0.61
206	138.2735508	-69.8627736	17.0855	0.0416	16.7863	0.0378	16.1620	0.0633	-65.3	0.071	0	0.17
208	138.4493561	-69.8661757	16.7836	0.0173	16.7401	0.0259	16.9899	0.0962	75.0	0.070	3	0.87
209	138.2905726	-69.8639819	17.7796	0.0376	17.7114	0.0520	18.1300	0.2266	-88.2	0.143	0	0.58
210	138.2970113	-69.8643896	17.1906	0.0220	17.1467	0.0460	17.8320	0.2570	82.5	0.059	0	0.84
211	138.1654989	-69.8641806	18.0197	0.0632	14.8685	0.0065	15.3820	0.0297	53.0	0.101	0	0.48
213	138.2794826	-69.8643934	18.1432	0.0606	14.1264	0.0042	14.5901	0.0181	67.5	0.200	0	0.49
214	138.3457820	-69.8646663	17.8694	0.0353	14.6141	0.0050	15.0972	0.0221	-62.9	0.138	0	0.52
215	138.1028711	-69.8656996	15.6582	0.0086	16.2243	0.0206	16.5111	0.0791	-87.4	0.145	16	0.35
217	138.2666026	-69.8662374	16.7719	0.0388	16.0791	0.0166	16.5764	0.0772	-36.7	0.308	0	0.04
219	138.2900563	-69.8672344	17.1512	0.0214	16.3034	0.0232	16.6664	0.0959	-84.4	0.134	0	0.88
221	138.1777671	-69.8674512	16.7721	0.0196	14.7841	0.0074	15.2097	0.0317	-5.6	0.035	3	0.80
222	138.1721046	-69.8676056	16.9205	0.0253	18.3166	0.1171	18.6010	0.4539	43.3	0.080	3	0.70
223	138.1215857	-69.8675700	17.8146	0.0359	16.8672	0.0379	18.3744	0.4507	-89.1	0.203	0	0.19
224	138.3267368	-69.8680063	17.4151	0.0259	17.7720	0.0672	17.7778	0.2010	-70.1	0.094	0	0.72
225	138.4747462	-69.8685130	17.6209	0.0463	17.0963	0.0288	17.4632	0.1189	47.4	0.122	0	0.63
226	138.1334822	-69.8682795	18.0515	0.0341	16.9755	0.0319	17.0155	0.0980	80.0	0.194	0	0.53
229	138.1633628	-69.8697953	14.4109	0.0034	16.0254	0.0202	16.3268	0.0787	78.1	0.123	3	0.66
231	138.2723075	-69.8694338	16.6739	0.0187	16.0256	0.0232	16.7027	0.1282	-89.2	0.063	0	0.85
232	138.4501804	-69.8691419	18.0902	0.0454	15.9321	0.0196	16.1256	0.0693	-76.8	0.227	0	0.53
233	138.1853253	-69.8688663	18.2110	0.0568	13.2602	0.0020	13.7208	0.0084	90.0	0.153	0	0.46
234	138.3049264	-69.8704718	16.4061	0.0139	9.6888	0.0002	11.2316	0.0010	72.9	0.230	0	0.07
235	138.4368246	-69.8706015	17.3826	0.0335	15.3954	0.0093	15.8427	0.0408	-76.5	0.212	0	0.68
236	138.1218070	-69.8712405	16.7831	0.0222	10.5239	0.0003	10.7497	0.0007	82.7	0.080	0	0.89
239	138.1561615	-69.8724697	18.0590	0.0700	16.7972	0.0401	17.4952	0.2265	63.2	0.186	0	0.58
240	138.2658459	-69.8731203	17.9935	0.0632	15.1089	0.0087	15.5047	0.0364	-81.4	0.352	0	0.04
241	138.2952264	-69.8729515	18.2056	0.0739	16.5946	0.0283	16.4700	0.0749	24.7	0.092	0	0.55
242	138.3785913	-69.8732952	17.3659	0.0234	16.6996	0.0249	17.3046	0.1282	88.4	0.056	0	0.59
243	138.4832205	-69.8734436	17.2927	0.0242	10.3630	0.0003	13.0882	0.0052	-70.0	0.131	0	0.85
245	138.1915814	-69.8732368	18.2792	0.0606	17.5770	0.0508	18.4017	0.3221	-72.7	0.164	0	0.49
246	138.2743875	-69.8741711	16.4710	0.0187	16.4134	0.0228	16.9044	0.1055	-85.9	0.152	0	0.35
247	138.1455334	-69.8747156	14.4816	0.0038	13.4363	0.0022	13.7527	0.0078	-20.8	0.280	3	0.67
248	138.1505577	-69.8761982	16.3588	0.0186	15.0052	0.0103	15.3653	0.0420	71.9	0.080	3	0.25
249	138.2036003	-69.8743043	16.2797	0.0151	17.3506	0.0517	17.0937	0.1215	37.3	0.277	0	0.83
250	138.1258963	-69.8758023	13.5044	0.0018	16.1903	0.0199	16.6865	0.0928	-76.5	0.030	0	0.75
254	138.3860736	-69.8759118	17.6165	0.0314	14.7869	0.0068	15.3189	0.0322	45.3	0.044	3	0.62
255	138.3820730	-69.8762008	17.2056	0.0235	16.1323	0.0214	15.8059	0.0470	12.8	0.115	2	0.72
256	138.1956918	-69.8761435	17.3437	0.0400	17.8336	0.0603	17.5121	0.1334	68.6	0.169	3	0.14
258	138.1976689	-69.8799922	16.9853	0.0247	14.5802	0.0049	14.8901	0.0186	-88.4	0.105	3	0.42
259	138.1667989	-69.8764475	16.7947	0.0172	15.8304	0.0199	16.2073	0.0833	82.5	0.107	0	0.88
260	138.2679628	-69.8766382	18.5056	0.0748	17.5690	0.0681	18.5594	0.5045	-40.8	0.231	0	0.49
261	138.3325357	-69.8773573	17.2070	0.0312	16.5396	0.0312	16.8050	0.1181	85.7	0.196	0	0.55
262	138.2186417	-69.8768629	17.6845	0.0430	15.7334	0.0131	16.2282	0.0606	16.7	0.155	0	0.50
263	138.2040863	-69.8768255	18.3865	0.0631	16.9901	0.0524	98.8985	99.0000	27.2	0.003	0	0.47
264	138.3516580	-69.8779804	16.8654	0.0194	15.3804	0.0135	15.8735	0.0627	58.2	0.100	0	0.89
265	138.2388134	-69.8799432	15.3013	0.0082	15.8337	0.0173	15.8261	0.0507	-9.9	0.067	2	0.84
266	138.2393567	-69.8835907	15.9115	0.0125	14.5758	0.0065	15.0936	0.0305	35.2	0.141	2	0.83
267	138.1378764	-69.8797593	14.0361	0.0025	14.5864	0.0070	15.3584	0.0416	87.0	0.053	0	0.87
268	138.4137058	-69.8795397	17.6391	0.0418	17.3758	0.0473	17.3075	0.1320	58.8	0.145	0	0.40

Figure A.97: Catalogue for A Field m1p1 (cont.)

272	138.4080044	-69.8809345	16.7621	0.0268	16.8377	0.0390	18.1851	0.4003	79.6	0.136	0	0.74
274	138.4867749	-69.8811263	16.8531	0.0250	17.5375	0.0477	17.4850	0.1348	-61.1	0.058	0	0.66
275	138.2280141	-69.8808846	18.1974	0.0394	15.4077	0.0117	15.6817	0.0442	87.6	0.055	0	0.50
277	138.4291334	-69.8818932	17.3239	0.0394	17.7396	0.0679	19.3071	0.8556	72.6	0.487	0	0.07
279	138.4024381	-69.8826303	17.9435	0.0641	13.5216	0.0024	13.9596	0.0098	-48.1	0.275	3	0.55
280	138.4073160	-69.8843772	15.0553	0.0061	15.9907	0.0186	16.0029	0.0555	37.4	0.088	2	0.61
281	138.3664994	-69.8831941	17.0614	0.0306	14.6770	0.0076	14.8922	0.0270	-82.3	0.121	0	0.79
282	138.1948869	-69.8834938	16.1936	0.0124	15.5399	0.0107	16.0970	0.0519	-75.9	0.283	0	0.19
283	138.2821904	-69.8830900	17.8378	0.0762	17.0072	0.0411	17.3917	0.1738	64.5	0.054	0	0.19
284	138.4830330	-69.8837358	16.3156	0.0165	16.8570	0.0405	17.5515	0.2279	46.6	0.227	0	0.82
285	138.1567853	-69.8835471	17.8393	0.0398	15.0633	0.0092	15.6031	0.0442	-65.4	0.089	0	0.53
286	138.4310085	-69.8848033	16.4269	0.0302	16.0044	0.0168	16.4927	0.0775	-63.7	0.348	0	0.00
287	138.1119718	-69.8844904	15.3158	0.0079	17.5961	0.0553	17.9450	0.2267	87.0	0.079	0	0.08
288	138.2232808	-69.8845319	16.6081	0.0166	16.2280	0.0196	16.3663	0.0656	83.9	0.109	0	0.88
289	138.3875041	-69.8852700	16.1023	0.0171	16.1713	0.0173	16.9239	0.1013	54.6	0.217	0	0.66
290	138.1809389	-69.8851544	17.0722	0.0287	15.5727	0.0116	15.8246	0.0429	58.1	0.044	0	0.59
291	138.1025933	-69.8854834	17.3404	0.0400	15.4277	0.0150	16.3273	0.1011	-52.7	0.326	1	0.54
292	138.2859648	-69.8860950	17.3904	0.0479	10.9669	0.0004	11.1278	0.0010	30.8	0.036	0	0.23
293	138.3601268	-69.8878152	16.0727	0.0128	17.8764	0.0687	18.2811	0.2965	84.2	0.040	0	0.89
294	138.4291251	-69.8918286	15.3960	0.0133	15.8304	0.0210	15.9753	0.0712	87.9	0.668	0	0.68
295	138.3134970	-69.8875185	17.4644	0.0257	13.3643	0.0021	13.7607	0.0081	83.5	0.113	0	0.64
296	138.3951942	-69.8873755	18.2130	0.0684	17.4035	0.0407	17.9716	0.2031	-69.1	0.154	0	0.59
299	138.1914965	-69.8881239	16.5016	0.0174	16.8733	0.0436	17.2493	0.1833	82.4	0.178	3	0.39
300	138.1891771	-69.8902332	15.2425	0.0076	13.7156	0.0028	14.0807	0.0109	-61.3	0.244	3	0.73
302	138.1161791	-69.8888154	17.5667	0.0439	15.2071	0.0085	15.7210	0.0395	78.7	0.062	0	0.67
303	138.2918518	-69.8891879	17.3187	0.0382	17.1425	0.0300	18.9696	0.4750	-89.2	0.033	0	0.62
304	138.3255340	-69.8899287	15.5538	0.0087	15.7088	0.0127	16.4354	0.0722	64.7	0.069	0	0.89
306	138.2210978	-69.8894137	18.0052	0.0462	15.2798	0.0092	15.8040	0.0434	89.1	0.137	0	0.35
307	138.3703546	-69.8910392	16.7229	0.0175	16.6932	0.0414	17.6552	0.2983	39.1	0.112	0	0.64
311	138.1031714	-69.8909016	18.0200	0.0379	15.9993	0.0240	16.8010	0.1489	-75.7	0.193	0	0.51
312	138.4890494	-69.8910260	18.5905	0.0615	16.0553	0.0157	16.4770	0.0679	-24.2	0.219	0	0.37
313	138.1654908	-69.8919272	16.3761	0.0202	17.3527	0.0530	20.0559	1.8980	-23.7	0.158	3	0.18
315	138.1731879	-69.8913843	18.4152	0.0656	15.9554	0.0172	15.8159	0.0445	-83.0	0.087	0	0.46
316	138.2635618	-69.8917564	18.1295	0.0493	15.3496	0.0091	15.6824	0.0358	42.5	0.008	0	0.50
317	138.2190496	-69.8934319	15.6702	0.0080	15.5454	0.0144	15.9171	0.0599	85.3	0.115	0	0.88
318	138.3584348	-69.8932291	16.6545	0.0208	17.5008	0.0469	18.3106	0.2930	-87.0	0.110	0	0.79
319	138.1216128	-69.8923546	18.2047	0.0505	16.5356	0.0251	17.1016	0.1246	-29.7	0.193	0	0.47
320	138.1532066	-69.8931725	17.1867	0.0375	17.4060	0.0489	17.5140	0.1605	89.9	0.100	0	0.33
322	138.2578525	-69.8937456	17.1472	0.0206	13.6805	0.0027	14.0573	0.0106	-76.7	0.092	0	0.83
324	138.3742665	-69.8946473	17.4918	0.0260	16.5079	0.0326	17.6853	0.2858	84.7	0.110	0	0.67
326	138.2417557	-69.8959211	16.5154	0.0243	17.3153	0.0432	17.5680	0.1618	85.5	0.533	0	0.01
327	138.3503271	-69.8955466	17.9115	0.0429	16.3408	0.0285	16.3668	0.0867	89.7	0.103	0	0.57
328	138.3929475	-69.8964088	15.6433	0.0078	15.7568	0.0152	16.2442	0.0699	-66.9	0.048	0	0.89
329	138.2251456	-69.8967728	17.3508	0.0351	13.5438	0.0025	13.9640	0.0100	88.5	0.108	0	0.78
330	138.1532383	-69.8966842	18.1468	0.0626	14.3254	0.0051	15.3135	0.0360	67.5	0.146	0	0.61
332	138.2897501	-69.8981656	16.4266	0.0214	16.0967	0.0217	16.8428	0.1278	76.9	0.172	0	0.54
334	138.1660614	-69.8981548	17.9342	0.0567	16.9435	0.0441	16.6629	0.1014	-76.8	0.190	0	0.54
335	138.3165024	-69.8982283	18.2149	0.0561	16.2795	0.0388	16.5355	0.1463	25.4	0.012	0	0.51
336	138.0976799	-69.8987395	16.5359	0.0160	16.8283	0.0448	17.7948	0.3247	-12.4	0.304	27	0.25

Figure A.98: Catalogue for A Field m1p1 (cont.)

338	138.1841214	-69.8989008	17.9831	0.0540	13.4791	0.0023	13.8366	0.0085	84.2	0.237	0	0.50
340	138.1325726	-69.8996625	16.8622	0.0199	16.7476	0.0311	17.9783	0.2854	84.0	0.111	0	0.69
341	138.1239241	-69.8995811	17.9295	0.0503	16.6092	0.0391	16.3586	0.0925	64.1	0.216	0	0.63
342	138.3039322	-69.9002490	17.7955	0.0543	14.8077	0.0073	15.3775	0.0358	83.6	0.172	0	0.52
344	138.3998975	-69.9026662	14.7403	0.0047	16.7745	0.0378	17.3552	0.1916	15.5	0.252	3	0.03
345	138.1851152	-69.9007292	16.9947	0.0304	16.1007	0.0204	16.7556	0.1100	34.1	0.195	3	0.34
346	138.1793157	-69.9020736	16.0842	0.0118	17.5599	0.0557	17.8437	0.2148	63.0	0.081	2	0.89
348	138.1683476	-69.9009353	17.9540	0.0407	15.5196	0.0192	15.9375	0.0837	68.5	0.130	0	0.64
349	138.3098007	-69.9019521	16.9078	0.0295	15.0716	0.0115	15.6790	0.0590	84.3	0.255	0	0.10
351	138.1083850	-69.9031191	14.6053	0.0040	17.3109	0.0417	17.8985	0.2124	66.9	0.074	3	0.71
352	138.1147036	-69.9043334	15.5810	0.0106	18.0397	0.0731	21.0843	3.5870	66.2	0.265	3	0.14
353	138.2727491	-69.9028461	17.4050	0.0435	16.1043	0.0198	16.3872	0.0759	83.5	0.275	0	0.24
355	138.2438282	-69.9035365	16.3227	0.0293	15.8753	0.0277	17.8274	0.4974	-27.2	0.128	0	0.01
356	138.3240250	-69.9043547	16.0729	0.0146	16.7549	0.0304	17.0582	0.1191	52.8	0.282	3	0.47
358	138.4650382	-69.9033951	17.2675	0.0424	13.8526	0.0034	14.2257	0.0134	-39.2	0.219	0	0.14
359	138.1402768	-69.9036084	17.9353	0.0466	16.4292	0.0271	16.6384	0.0974	65.0	0.139	0	0.57
360	138.2665476	-69.9041732	16.8861	0.0314	16.2147	0.0170	16.4934	0.0645	73.0	0.101	0	0.53
361	138.1852084	-69.9041056	17.2778	0.0291	17.6447	0.0688	16.8520	0.0989	-73.2	0.086	0	0.71
363	138.4508879	-69.9060085	16.6615	0.0200	17.4810	0.0516	18.5016	0.3918	-61.6	0.063	3	0.53
364	138.1970319	-69.9041816	18.1237	0.0507	16.7487	0.0388	16.9106	0.1339	88.3	0.108	0	0.47
365	138.3921595	-69.9058026	15.5845	0.0080	15.0195	0.0074	15.5274	0.0342	88.4	0.101	0	0.67
366	138.2987023	-69.9054436	17.2567	0.0354	15.7226	0.0148	16.5489	0.0931	-34.2	0.246	0	0.28
367	138.1583345	-69.9025857	17.8502	0.0507	14.5949	0.0054	14.9654	0.0215	9.7	0.128	0	0.47
368	138.4689524	-69.9063605	16.8087	0.0312	12.9297	0.0015	13.1817	0.0050	-46.5	0.429	0	0.26
369	138.2372336	-69.9056173	17.6446	0.0458	17.5496	0.0492	17.7592	0.1771	-58.0	0.041	0	0.50
371	138.2600503	-69.9137095	15.7133	0.0135	15.1684	0.0088	15.5832	0.0372	73.0	0.610	3	0.20
372	138.2889570	-69.9072638	15.3901	0.0092	16.5266	0.0260	17.2672	0.1520	84.9	0.442	0	0.45
373	138.1454492	-69.9059010	18.4464	0.0568	15.7002	0.0131	16.1074	0.0559	44.0	0.140	0	0.47
374	138.2114371	-69.9023578	17.8507	0.0516	17.5663	0.0688	17.9250	0.2849	-60.3	0.408	0	0.49
375	138.1868067	-69.9074739	18.0246	0.0433	10.7057	0.0004	10.6858	0.0007	-83.1	0.127	0	0.50
376	138.2703414	-69.9075875	18.2285	0.0738	16.0726	0.0217	16.4959	0.0950	-13.3	0.150	1	0.50
377	138.2416387	-69.9075373	17.9819	0.0440	16.4391	0.0200	17.1712	0.1154	82.8	0.419	0	0.43
378	138.4748476	-69.9089722	16.6022	0.0190	15.8329	0.0187	16.1235	0.0723	-88.0	0.148	0	0.46
379	138.4281027	-69.9100163	16.0478	0.0202	15.4778	0.0205	16.7645	0.1990	-88.2	0.487	0	0.02
380	138.2158097	-69.9090778	17.1779	0.0352	17.5493	0.0557	17.3340	0.1358	76.1	0.125	0	0.62
381	138.2306686	-69.9095534	17.2526	0.0282	17.3018	0.0452	17.7714	0.2065	-76.8	0.066	0	0.84
382	138.0988370	-69.9093806	16.8814	0.0291	16.4157	0.0253	16.6890	0.0965	24.0	0.115	16	0.05
383	138.3295337	-69.9114536	14.1167	0.0028	16.0869	0.0164	16.6895	0.0839	64.9	0.116	0	0.75
384	138.3790726	-69.9105145	17.0793	0.0306	16.0548	0.0267	16.7788	0.1544	85.2	0.161	0	0.40
385	138.3912274	-69.9106855	16.7175	0.0168	16.7230	0.0273	17.0995	0.1142	75.9	0.170	0	0.58
386	138.4499827	-69.9102271	17.8894	0.0550	17.1527	0.0492	16.9981	0.1270	44.5	0.075	0	0.56
387	138.4166154	-69.9104167	18.1754	0.0568	16.2676	0.0302	16.9566	0.1694	61.4	0.106	0	0.51
388	138.4423004	-69.9107798	17.1291	0.0324	15.4866	0.0099	15.8059	0.0383	-85.4	0.100	3	0.44
390	138.2041714	-69.9107792	16.6942	0.0162	16.8374	0.0468	16.9249	0.1510	88.1	0.127	0	0.85
391	138.2416498	-69.9108526	17.6455	0.0349	16.5373	0.0425	17.3851	0.2762	90.0	0.655	0	0.44
393	138.2168127	-69.9113113	18.3329	0.0625	17.6610	0.0532	17.8878	0.1945	68.9	0.139	0	0.48
394	138.1844841	-69.9126022	15.9857	0.0110	18.4352	0.0621	18.9431	0.2929	-88.2	0.091	3	0.72
396	138.2869359	-69.9123772	17.6051	0.0426	17.2662	0.0410	16.7175	0.0734	-65.9	0.158	0	0.50
397	138.2415523	-69.9125770	18.1301	0.0446	17.5702	0.0537	17.9808	0.2329	72.2	0.532	0	0.39

Figure A.99: Catalogue for A Field m1p1 (cont.)

398	138.3658373	-69.9132986	17.2992	0.0347	17.3671	0.0544	18.2558	0.3670	-84.6	0.076	0	0.57
400	138.2728312	-69.9142444	15.5898	0.0079	16.4699	0.0202	17.3916	0.1382	82.3	0.105	0	0.82
401	138.1914087	-69.9137874	17.0166	0.0232	98.9130	99.0000	18.9263	0.2653	86.9	0.125	0	0.88
402	138.1555357	-69.9132330	18.4209	0.0528	17.6490	0.0582	18.0972	0.2612	89.5	0.266	0	0.35
403	138.4752061	-69.9152945	16.3875	0.0139	17.6553	0.0520	17.9686	0.2058	-80.0	0.079	0	0.88
404	138.2483531	-69.9149394	17.8004	0.0585	16.6094	0.0297	16.7837	0.1035	86.8	0.076	0	0.64
405	138.2619413	-69.8034049	16.7579	0.0167	17.4179	0.0532	18.1810	0.3191	72.5	0.016	0	0.88

Figure A.100: Catalogue for A Field m1p1 (cont.)

1	138.7879944	-70.1176844	7.9237	0.0001	7.7971	0.0001	7.7199	0.0001	-75.9	0.358	22	0.81
3	138.9592402	-70.1582493	15.5418	0.0108	14.7719	0.0087	14.2206	0.0210	-32.3	0.120	0	0.02
8	139.0960879	-70.1607573	17.7215	0.0347	17.1260	0.0329	17.2502	0.1486	-80.2	0.103	0	0.71
10	138.9649067	-70.1622979	18.1597	0.0385	17.3078	0.0289	17.3726	0.1226	58.4	0.150	0	0.84
11	138.9379239	-70.1624894	18.3574	0.0539	17.4948	0.0403	16.7403	0.0812	-65.0	0.292	3	0.06
12	138.9388119	-70.1634587	18.0329	0.0395	17.1627	0.0292	16.4354	0.0601	-78.1	0.075	27	0.10
13	139.0502435	-70.1629223	17.7734	0.0361	17.2318	0.0360	17.4961	0.1848	56.6	0.050	16	0.68
14	138.8072357	-70.1629752	17.2049	0.0185	16.8106	0.0207	16.1630	0.0454	-45.3	0.258	24	0.55
15	139.0829492	-70.1631382	17.5030	0.0303	17.0051	0.0313	16.7153	0.0968	-19.2	0.408	16	0.01
17	139.0944910	-70.1631405	18.8370	0.0632	18.1022	0.0530	18.5730	0.3293	42.5	0.220	16	0.60
18	139.0901650	-70.1631640	19.0584	0.0684	18.4634	0.0650	18.0389	0.1775	-44.4	0.242	16	0.52
20	138.9112063	-70.1635921	18.4057	0.0397	17.9685	0.0432	17.7850	0.1464	-2.8	0.466	24	0.59
21	139.0755766	-70.1637183	19.0340	0.0583	18.6492	0.0668	18.5159	0.2381	15.0	0.287	24	0.43
22	138.9526210	-70.1610722	18.0050	0.0400	17.0573	0.0276	16.4612	0.0641	62.6	0.018	0	0.18
23	138.8485858	-70.1598099	17.0133	0.0196	16.6694	0.0231	16.9993	0.1253	-16.8	0.136	3	0.61
24	139.0205656	-70.1605735	17.4723	0.0318	17.0447	0.0351	16.2255	0.0668	-47.7	0.110	0	0.80
25	138.8094130	-70.1605087	17.9575	0.0404	17.5279	0.0446	16.4889	0.0694	50.9	0.033	0	0.84
27	138.9600799	-70.1607871	18.0800	0.0472	17.2993	0.0380	16.9811	0.1144	71.2	0.176	0	0.75
28	139.1660668	-70.1611206	18.7931	0.0637	17.9283	0.0474	17.2443	0.1019	75.1	0.357	0	0.06
29	139.0340917	-70.1591315	16.8896	0.0222	16.1832	0.0190	15.5225	0.0417	-64.3	0.077	0	0.09
31	138.8535682	-70.1581599	17.6573	0.0329	16.8300	0.0253	16.3906	0.0678	87.0	0.591	3	0.00
35	138.9325591	-70.1577038	16.9125	0.0197	16.2261	0.0171	15.5199	0.0358	74.2	0.188	0	0.04
36	138.8719092	-70.1604233	18.8268	0.0717	18.2078	0.0669	18.5572	0.3736	71.5	0.248	0	0.58
38	138.8283644	-70.1592596	18.5262	0.0411	17.9839	0.0406	17.8496	0.1436	84.6	0.081	0	0.69
40	139.0026156	-70.1589060	18.0774	0.0356	17.8670	0.0476	17.2925	0.1133	77.6	0.128	0	0.86
41	138.8554119	-70.1574894	17.8171	0.0392	16.9910	0.0302	16.5378	0.0802	80.9	0.148	3	0.04
43	138.8802664	-70.0328042	17.5092	0.0307	16.5839	0.0216	16.3372	0.0690	-5.3	0.633	24	0.13
44	138.9079463	-70.0331461	16.8134	0.0253	15.9536	0.0189	16.1259	0.0893	-52.9	0.127	26	0.00
45	138.9077764	-70.0350772	16.7000	0.0249	16.0936	0.0235	16.0094	0.0878	86.7	0.469	19	0.00
49	139.1471368	-70.0338252	18.3535	0.0415	18.6241	0.0861	17.3844	0.1116	65.9	0.130	16	0.57
54	138.8755655	-70.0443282	18.0271	0.0306	17.4398	0.0289	17.0959	0.0842	-22.1	0.024	0	0.81
55	138.9617401	-70.0443953	18.0613	0.0298	17.3008	0.0241	16.6719	0.0537	49.9	0.070	0	0.54
56	138.9059461	-70.0447909	18.0020	0.0558	17.3980	0.0529	17.0786	0.1599	-74.1	0.082	0	0.17
58	138.8972028	-70.0456493	17.5498	0.0301	17.0131	0.0301	16.6928	0.0901	47.2	0.012	0	0.65
60	138.9041477	-70.0460436	18.4941	0.0777	17.5878	0.0559	18.7227	0.6445	89.4	0.097	0	0.27
61	138.9679522	-70.0457865	19.0186	0.0523	18.4627	0.0511	18.9728	0.3268	-45.4	0.250	0	0.50
62	139.0825671	-70.0465204	17.1448	0.0333	16.4599	0.0293	16.6783	0.1447	-1.6	0.451	0	0.01
63	139.1355456	-70.0461564	18.8797	0.0646	18.5561	0.0786	19.4612	0.7321	-57.6	0.293	0	0.55
64	138.9200594	-70.0461677	18.9945	0.0682	18.5006	0.0711	18.1921	0.2164	-74.1	0.212	0	0.65
65	139.0631932	-70.0463189	18.6920	0.0583	18.1743	0.0595	17.9645	0.1981	58.8	0.057	0	0.72
69	139.0431964	-70.0481759	17.8222	0.0334	17.3132	0.0342	17.2708	0.1324	-77.1	0.075	0	0.46
70	139.0967569	-70.0481070	17.6868	0.0539	17.4843	0.0739	17.0741	0.2061	72.7	0.362	1	0.00
72	139.1025532	-70.0490041	17.9858	0.0571	17.5154	0.0611	17.6231	0.2742	-29.8	0.026	0	0.09
73	139.0628739	-70.0492617	19.0586	0.0822	17.6993	0.0392	16.8806	0.0742	-13.3	0.141	0	0.55
79	139.0297607	-70.0500471	18.1906	0.0401	17.6073	0.0384	17.3543	0.1223	-64.5	0.123	0	0.85
80	138.7889673	-70.0501402	16.7675	0.0160	16.1263	0.0144	16.4474	0.0768	-29.8	0.158	0	0.38
81	138.8790111	-70.0502528	17.1394	0.0202	16.6227	0.0203	16.4113	0.0668	31.9	0.069	0	0.85
83	139.0828582	-70.0503020	18.8323	0.0713	18.3593	0.0760	18.6827	0.4148	-19.5	0.173	0	0.69
85	138.8751974	-70.0509790	18.1474	0.0328	17.5433	0.0306	17.2864	0.0965	-58.5	0.037	0	0.88

Figure A.101: Catalogue for A Field p1m1

87	139.1304311	-70.0545637	16.4370	0.0119	15.8182	0.0108	15.7228	0.0387	-18.0	0.206	3	0.35
89	138.9342998	-70.0515224	18.1676	0.0397	17.5203	0.0359	17.5931	0.1539	-65.1	0.033	0	0.81
90	139.0157805	-70.0546537	18.5240	0.0460	17.9313	0.0436	18.0429	0.1941	-61.8	0.193	3	0.69
91	139.0127163	-70.0524693	17.3810	0.0229	16.7251	0.0204	16.5652	0.0702	-75.5	0.147	3	0.78
93	138.7914923	-70.0526635	17.2475	0.0329	16.2054	0.0209	16.1501	0.0800	-46.3	0.460	0	0.02
94	138.9492044	-70.0526597	18.6181	0.0562	17.9104	0.0483	17.4901	0.1322	75.6	0.110	0	0.64
95	138.9090494	-70.0535287	16.1423	0.0130	15.6748	0.0137	15.7763	0.0603	-86.5	0.412	0	0.03
97	138.9382574	-70.0530651	18.4695	0.0458	17.7813	0.0399	17.3857	0.1114	-65.6	0.234	0	0.53
99	139.1478194	-70.0533407	19.0441	0.0571	18.3348	0.0487	18.1194	0.1602	-46.5	0.147	0	0.50
101	138.9748109	-70.0537251	18.3642	0.0374	17.6424	0.0314	17.3869	0.0989	-43.5	0.135	0	0.79
103	138.8777805	-70.0542499	17.5442	0.0351	16.8431	0.0303	17.0650	0.1498	-82.3	0.453	0	0.27
104	138.8599198	-70.0539068	18.5287	0.0388	17.9863	0.0382	18.0901	0.1679	78.1	0.107	0	0.75
109	139.0526516	-70.0551253	17.9380	0.0441	17.4159	0.0449	17.0945	0.1350	-72.5	0.128	3	0.34
110	139.0500740	-70.0554565	17.7633	0.0320	17.1811	0.0306	17.3215	0.1398	-51.0	0.105	3	0.23
111	139.0523036	-70.0560299	17.8474	0.0424	17.3758	0.0451	17.5461	0.2136	26.7	0.068	3	0.57
112	138.8073375	-70.0553328	17.2803	0.0274	16.6523	0.0252	15.9682	0.0542	-50.8	0.314	3	0.00
114	138.8087295	-70.0589942	16.4437	0.0114	16.1708	0.0141	16.1169	0.0529	82.2	0.093	3	0.88
119	139.1240184	-70.0556147	19.0921	0.0720	18.3696	0.0610	18.5238	0.2836	74.6	0.142	0	0.52
122	138.8938561	-70.0562815	17.9835	0.0284	17.5598	0.0310	17.4569	0.1124	-59.8	0.081	0	0.87
124	138.8203061	-70.0564448	17.9324	0.0528	17.0397	0.0385	16.4533	0.0907	63.8	0.130	0	0.08
125	138.9458919	-70.0569820	16.7043	0.0132	16.0597	0.0117	15.7891	0.0358	28.2	0.143	0	0.85
130	138.9553893	-70.0584941	18.4098	0.0507	18.1522	0.0655	18.2573	0.2919	-55.9	0.086	3	0.54
131	138.9196423	-70.0581448	19.3230	0.0733	18.5874	0.0612	18.6948	0.2718	-71.2	0.129	0	0.50
134	138.7855079	-70.0596786	15.0678	0.0040	14.3634	0.0032	14.2069	0.0101	-64.6	0.242	24	0.84
137	139.0150161	-70.0599732	17.0078	0.0150	16.5627	0.0158	16.4902	0.0583	-71.5	0.138	0	0.85
138	139.0692816	-70.0596024	18.6376	0.0585	18.2930	0.0700	18.9894	0.5376	89.7	0.176	0	0.54
139	139.1732626	-70.0597726	17.7843	0.0392	16.9419	0.0298	16.6014	0.0876	-66.1	0.414	17	0.09
140	139.1002005	-70.0599503	18.2035	0.0535	17.6742	0.0542	17.7689	0.2394	-5.7	0.006	0	0.03
142	138.7908799	-70.0599882	18.1596	0.0470	17.4933	0.0419	19.3497	0.9340	28.8	0.203	1	0.62
144	139.0329594	-70.0605338	18.2684	0.0377	17.4897	0.0302	17.2982	0.1010	-19.9	0.077	0	0.89
146	139.1678908	-70.0638707	15.4717	0.0129	14.9017	0.0125	14.9621	0.0534	-87.6	0.354	19	0.00
147	139.1749617	-70.0634733	14.9414	0.0076	14.2116	0.0063	14.0686	0.0222	-74.2	0.426	27	0.01
148	139.1695663	-70.0653412	15.6341	0.0072	15.1151	0.0070	15.0845	0.0265	57.7	0.046	3	0.80
152	138.9206626	-70.0619689	19.0816	0.0710	18.6703	0.0799	18.8689	0.3878	89.9	0.193	0	0.49
153	138.8357652	-70.0619609	19.1031	0.0826	18.2238	0.0608	17.4406	0.1196	57.7	0.227	0	0.49
155	139.0460523	-70.0625115	18.1905	0.0348	17.6402	0.0342	17.7583	0.1523	-75.8	0.084	0	0.73
156	139.0205901	-70.0634034	15.6862	0.0081	15.3361	0.0093	15.2731	0.0345	-72.3	0.579	0	0.04
157	139.1236765	-70.0625221	18.7776	0.0583	17.9441	0.0446	17.6942	0.1425	87.7	0.145	0	0.56
160	139.0671115	-70.0630345	18.7528	0.0633	18.2410	0.0650	17.5887	0.1443	42.5	0.112	0	0.62
161	139.0845708	-70.0633223	18.4880	0.0553	17.7891	0.0479	17.5367	0.1532	74.6	0.219	0	0.53
162	139.0282787	-70.0641708	18.1176	0.0343	17.6523	0.0364	17.7802	0.1639	82.1	0.110	0	0.89
165	139.0040670	-70.0661598	16.8435	0.0166	16.4115	0.0180	16.4933	0.0775	-82.7	0.107	3	0.89
166	138.7922628	-70.0648803	17.2891	0.0312	16.5718	0.0265	16.9981	0.1583	44.1	0.162	0	0.45
167	139.0584098	-70.0651805	19.1173	0.0506	18.7127	0.0564	18.5952	0.2027	61.6	0.080	0	0.66
168	138.8508059	-70.0652743	18.4524	0.0563	18.1490	0.0699	18.2326	0.3059	-44.6	0.052	0	0.58
169	138.9160529	-70.0654111	18.0728	0.0475	17.5793	0.0496	17.3129	0.1572	65.6	0.047	0	0.20
170	139.0802827	-70.0657935	18.1108	0.0416	17.6531	0.0447	17.3430	0.1356	-50.0	0.089	0	0.85
171	138.8002883	-70.0653833	19.3026	0.0687	18.2270	0.0422	18.6534	0.2492	-43.5	0.201	0	0.50
172	138.8203974	-70.0658485	18.4254	0.0602	17.7338	0.0526	16.6541	0.0789	-33.0	0.197	0	0.00

Figure A.102: Catalogue for A Field p1m1 (cont.)

173	138.9902554	-70.0660739	18.3928	0.0449	18.1025	0.0561	17.9177	0.1910	-89.3	0.132	0	0.80
175	139.0100920	-70.0663589	18.9288	0.0858	18.0804	0.0651	18.1887	0.2911	-42.7	0.213	0	0.43
177	138.9609739	-70.0669062	18.1682	0.0313	17.6247	0.0308	17.4814	0.1074	7.8	0.048	0	0.85
178	139.0127470	-70.0670319	18.7837	0.0821	18.0601	0.0698	18.1760	0.3147	26.2	0.312	0	0.61
179	139.1126154	-70.0672128	18.8400	0.0582	18.0585	0.0466	18.0667	0.1888	-26.4	0.080	0	0.62
181	138.8961930	-70.0673527	18.8846	0.0523	17.9886	0.0377	18.4342	0.2263	-62.3	0.093	0	0.49
182	138.7912162	-70.0680248	17.0519	0.0293	16.4073	0.0267	17.4768	0.2885	-68.9	0.349	0	0.17
184	139.0477009	-70.0682240	19.2261	0.0717	18.3470	0.0526	18.0321	0.1583	0.7	0.196	0	0.51
187	139.0962582	-70.0687170	17.8375	0.0437	17.4922	0.0523	17.0021	0.1351	-79.3	0.313	0	0.01
189	139.1749779	-70.0690422	17.8391	0.0304	17.0070	0.0232	16.8625	0.0808	-44.8	0.014	24	0.73
190	139.1117736	-70.0695826	17.4397	0.0284	16.6270	0.0221	15.9241	0.0464	-55.4	0.494	0	0.00
191	138.7863331	-70.0690553	17.7607	0.0385	17.0916	0.0342	17.4433	0.1908	61.6	0.081	16	0.20
193	139.0573902	-70.0692321	18.5204	0.0414	18.1286	0.0469	17.7673	0.1351	-0.6	0.038	0	0.63
195	138.8263626	-70.0693042	17.9799	0.0495	17.1717	0.0389	16.5358	0.0877	-50.6	0.272	0	0.01
196	138.8095488	-70.0700889	18.1101	0.0446	17.8240	0.0561	17.7022	0.2031	-48.0	0.035	0	0.81
199	138.8595709	-70.0707866	18.2286	0.0371	17.7901	0.0404	17.9827	0.1934	-83.8	0.083	0	0.77
201	138.9278391	-70.0710258	18.7627	0.0567	18.4190	0.0676	18.5216	0.3002	69.3	0.140	0	0.59
203	139.1220413	-70.0714879	18.2387	0.0412	17.6671	0.0399	17.9655	0.2108	-5.8	0.015	0	0.87
204	138.8456299	-70.0723040	16.8144	0.0185	15.9002	0.0131	15.1905	0.0271	65.9	0.181	0	0.15
205	138.9011330	-70.0720607	19.3022	0.0724	18.4004	0.0520	18.0263	0.1481	-42.1	0.145	0	0.51
207	139.1440102	-70.0735488	14.6508	0.0029	14.2597	0.0029	14.1982	0.0097	21.2	0.016	2	0.69
208	139.1507036	-70.0745752	16.2139	0.0140	15.4268	0.0111	15.3120	0.0397	-9.4	0.478	3	0.19
213	139.1192697	-70.0730700	19.0257	0.0744	18.5464	0.0788	18.5388	0.3168	-14.8	0.103	0	0.45
215	138.8272666	-70.0734681	18.1788	0.0485	17.6398	0.0486	17.4646	0.1672	-25.8	0.210	0	0.26
216	138.9912356	-70.0737869	18.3540	0.0526	17.6823	0.0467	17.3221	0.1353	35.2	0.274	0	0.01
217	138.8892608	-70.0742247	16.6106	0.0116	16.0817	0.0113	16.0878	0.0443	81.8	0.144	0	0.87
218	138.9436000	-70.0741731	18.3785	0.0473	17.9851	0.0539	17.8426	0.1910	-61.6	0.071	0	0.80
219	138.9805849	-70.0744321	18.2562	0.0542	17.8382	0.0608	17.5815	0.1945	-66.1	0.117	0	0.48
220	138.8457961	-70.0742822	19.1859	0.0774	18.3797	0.0608	18.4652	0.2651	46.0	0.136	0	0.51
221	139.1293948	-70.0751504	19.1453	0.0726	18.5893	0.0715	18.3596	0.2339	-80.4	0.373	0	0.53
224	138.9292823	-70.0754922	19.1676	0.0797	17.9915	0.0448	17.1966	0.0868	-89.9	0.266	0	0.49
226	139.0287190	-70.0763136	18.7272	0.0543	18.3445	0.0624	18.3011	0.2421	-88.0	0.138	0	0.64
227	139.1553634	-70.0769803	18.6325	0.0652	17.9017	0.0549	18.1856	0.2883	-76.0	0.247	0	0.58
228	138.8603365	-70.0773384	18.0475	0.0384	17.5338	0.0391	17.0594	0.1019	-68.6	0.133	0	0.83
229	138.9490955	-70.0773978	18.6199	0.0490	18.0814	0.0488	18.6751	0.3387	-40.3	0.026	0	0.76
231	139.0686589	-70.0782608	17.8637	0.0365	17.3327	0.0367	17.3293	0.1474	70.9	0.119	0	0.57
232	138.8910219	-70.0780082	19.0668	0.0670	18.7238	0.0801	18.3669	0.2332	-43.9	0.144	0	0.62
234	139.0291409	-70.0786964	18.0680	0.0307	17.6466	0.0337	17.4236	0.1099	-80.5	0.132	0	0.68
236	138.9749676	-70.0790446	18.6703	0.0582	17.7227	0.0402	17.0287	0.0855	89.4	0.267	0	0.47
237	139.0449448	-70.0793779	17.7125	0.0307	17.0147	0.0264	16.7980	0.0868	77.7	0.092	0	0.87
239	138.9019920	-70.0792824	18.5530	0.0475	17.7694	0.0380	18.0914	0.2045	85.8	0.086	0	0.80
240	139.0124175	-70.0793322	18.7722	0.0611	18.1446	0.0564	17.8972	0.1813	78.0	0.111	0	0.53
242	138.8905608	-70.0800027	16.9516	0.0167	16.4711	0.0173	16.6138	0.0782	-0.1	0.145	0	0.88
244	139.1720964	-70.0797201	18.9132	0.0684	18.3618	0.0678	98.9062	99.0000	78.5	0.361	0	0.54
245	138.7946725	-70.0797548	18.7082	0.0466	18.1710	0.0464	17.6687	0.1173	83.6	0.101	0	0.62
247	139.1071682	-70.0813488	18.0765	0.0357	17.6888	0.0406	17.9067	0.1997	-56.6	0.276	2	0.86
248	139.1591820	-70.0807496	18.0538	0.0377	17.5720	0.0396	17.5583	0.1574	-78.6	0.209	0	0.16
250	138.8649175	-70.0812436	16.8994	0.0158	16.2868	0.0145	16.1646	0.0514	79.1	0.396	0	0.19
254	139.0976668	-70.0819109	17.1183	0.0306	16.4619	0.0276	15.5931	0.0502	-37.8	0.276	0	0.06

Figure A.103: Catalogue for A Field p1m1 (cont.)

255	138.9176925	-70.0819453	19.2210	0.0809	18.4564	0.0660	18.3674	0.2456	-90.0	0.313	0	0.51
257	139.0781123	-70.0821099	18.1117	0.0505	18.1423	0.0853	17.8495	0.2646	84.8	0.218	0	0.04
260	139.1372123	-70.0828510	18.8906	0.0633	18.3338	0.0623	18.0753	0.1983	-59.6	0.197	0	0.52
261	138.9767262	-70.0832798	18.2330	0.0509	17.8446	0.0585	18.6034	0.4760	69.8	0.116	0	0.67
262	139.0956947	-70.0837193	17.0584	0.0205	16.6089	0.0220	16.2041	0.0608	88.4	0.147	0	0.77
263	139.1568961	-70.0835845	19.0731	0.0525	18.3475	0.0440	17.9570	0.1226	-15.5	0.196	0	0.52
266	139.0873836	-70.0843309	18.2582	0.0381	17.6411	0.0353	17.4479	0.1184	-82.3	0.095	0	0.88
268	139.0417517	-70.0844816	17.8218	0.0371	17.2747	0.0368	16.3685	0.0646	-37.2	0.060	0	0.67
269	139.1090267	-70.0848891	16.9004	0.0143	16.3449	0.0137	16.0407	0.0407	-58.5	0.175	0	0.81
270	138.9781610	-70.0853367	16.9180	0.0190	16.5025	0.0210	16.5924	0.0914	-83.5	0.118	0	0.82
272	138.8727230	-70.0866690	15.2009	0.0042	14.6233	0.0038	14.4853	0.0120	-89.9	0.153	0	0.76
273	138.8898318	-70.0826237	18.9078	0.0768	18.3860	0.0783	17.8836	0.2000	-2.0	0.041	0	0.61
276	138.9076278	-70.0873015	18.5462	0.0598	18.0894	0.0646	17.6470	0.1741	-67.2	0.111	0	0.59
278	139.0784163	-70.0874463	18.3011	0.0606	17.6645	0.0557	17.9007	0.2806	-27.6	0.184	1	0.11
281	138.9383910	-70.0878075	17.3364	0.0200	16.7956	0.0196	16.5070	0.0597	-88.6	0.061	3	0.65
283	139.1746577	-70.0882822	16.1727	0.0088	15.5452	0.0078	15.3983	0.0261	-61.4	0.430	24	0.17
284	138.8463615	-70.0881564	18.2965	0.0339	18.0132	0.0421	18.7029	0.3176	-50.1	0.053	0	0.79
288	138.9238846	-70.0922472	15.5046	0.0059	15.0663	0.0061	15.0356	0.0226	54.8	0.367	3	0.67
289	139.0605622	-70.0887295	18.3621	0.0509	17.5433	0.0395	17.5442	0.1591	-76.9	0.052	0	0.74
290	138.8730196	-70.0884933	18.9430	0.0719	18.1831	0.0590	18.6273	0.3584	-56.5	0.240	0	0.49
292	139.1279970	-70.0889877	18.1373	0.0309	17.6186	0.0310	17.5369	0.1146	-74.1	0.109	0	0.88
293	138.9519406	-70.0891078	18.9795	0.0651	18.3550	0.0602	18.1380	0.1989	-45.0	0.123	0	0.63
294	138.8572244	-70.0894365	18.3597	0.0350	17.6628	0.0300	17.8138	0.1368	-41.4	0.028	0	0.77
295	138.8864739	-70.0896000	18.7847	0.0642	18.1817	0.0606	18.3270	0.2801	-87.4	0.058	0	0.65
296	138.8051377	-70.0902510	17.6400	0.0295	17.1966	0.0320	17.3024	0.1417	83.6	0.079	3	0.56
299	138.8121149	-70.0906068	18.5961	0.0614	18.0830	0.0630	17.8631	0.2083	-79.4	0.253	0	0.70
300	139.1569218	-70.0912397	17.7597	0.0249	17.0743	0.0215	16.9241	0.0742	-70.8	0.177	0	0.71
301	139.1471929	-70.0912208	18.4362	0.0455	17.9445	0.0474	17.7682	0.1621	74.6	0.106	0	0.79
303	138.9434351	-70.0912102	18.8576	0.0722	17.7763	0.0442	17.3902	0.1250	-10.6	0.133	0	0.55
304	139.1761367	-70.0914465	19.0446	0.0546	18.5692	0.0575	18.1908	0.1629	74.1	0.208	24	0.50
306	139.1326216	-70.0919105	19.0728	0.0702	18.2828	0.0559	18.7312	0.3402	-43.9	0.208	0	0.49
307	138.9377786	-70.0921634	18.3536	0.0519	17.7417	0.0486	17.9096	0.2293	-15.9	0.011	0	0.73
309	138.9050101	-70.0927841	17.6193	0.0355	17.0777	0.0354	16.9091	0.1224	-47.6	0.363	3	0.07
310	139.0991253	-70.0926392	17.5045	0.0327	17.1094	0.0372	17.4155	0.1995	-69.7	0.044	0	0.60
311	139.1050234	-70.0924529	18.9009	0.0455	18.3036	0.0426	18.0407	0.1334	-37.5	0.017	0	0.56
313	138.8658288	-70.0927556	18.6360	0.0523	18.3416	0.0652	18.4616	0.2940	-85.0	0.250	0	0.61
318	138.9561774	-70.0943312	18.4989	0.0441	18.2055	0.0548	17.9203	0.1700	-29.5	0.074	0	0.62
320	138.9420058	-70.0947831	18.4392	0.0568	17.4095	0.0364	16.8509	0.0878	75.6	0.215	0	0.66
324	139.0699319	-70.0957420	17.1361	0.0196	16.8451	0.0241	16.7495	0.0884	-72.2	0.104	0	0.76
326	138.9430357	-70.0964175	17.3549	0.0293	16.4354	0.0208	15.7397	0.0440	-30.5	0.153	1	0.01
329	138.9262067	-70.0969763	18.5461	0.0398	17.9309	0.0368	17.4985	0.0987	-15.7	0.019	0	0.73
330	139.0040578	-70.0970983	18.8366	0.0498	18.3017	0.0497	17.7069	0.1154	-80.4	0.194	0	0.67
333	138.9957225	-70.0977567	18.6911	0.0418	18.4260	0.0529	18.2414	0.1792	-80.7	0.089	0	0.63
335	138.8143742	-70.0979265	18.5283	0.0596	17.7708	0.0490	16.8602	0.0857	-81.6	0.205	0	0.06
336	138.9109891	-70.0984200	17.5813	0.0385	16.7647	0.0300	16.2448	0.0751	56.1	0.043	0	0.07
339	138.7899186	-70.0988406	17.5738	0.0346	17.4522	0.0506	98.9062	99.0000	85.9	0.298	0	0.06
340	139.0011822	-70.0991964	18.3643	0.0351	17.6781	0.0304	17.4621	0.0991	-88.7	0.124	0	0.84
341	139.1512863	-70.0995373	18.0221	0.0305	17.3710	0.0272	17.3193	0.1033	-80.1	0.244	0	0.34
342	138.8997127	-70.0992543	19.1227	0.0701	18.5893	0.0705	18.2235	0.2034	15.0	0.276	0	0.52

Figure A.104: Catalogue for A Field p1m1 (cont.)

343	138.9298787	-70.0998799	18.7810	0.0543	18.1961	0.0519	18.0538	0.1833	-29.8	0.151	0	0.51
345	138.9476786	-70.1023413	17.7862	0.0370	17.2299	0.0364	17.2830	0.1543	-65.5	0.226	3	0.42
346	138.8940169	-70.1005827	18.0828	0.0299	17.4692	0.0276	17.4562	0.1082	-62.7	0.083	0	0.77
353	139.0554993	-70.1026424	18.3197	0.0352	17.7250	0.0331	17.4580	0.1032	-78.9	0.190	0	0.49
354	138.9911857	-70.1026598	18.8823	0.0507	18.4198	0.0540	18.2515	0.1856	-45.8	0.144	0	0.66
355	138.8635610	-70.1026053	18.9805	0.0638	18.4623	0.0649	17.9042	0.1569	11.6	0.135	0	0.50
356	138.8173483	-70.1113692	11.9706	0.0016	11.5910	0.0018	11.4731	0.0065	-47.5	0.402	19	0.03
357	139.0241249	-70.0367093	18.3602	0.0412	17.7800	0.0394	18.1936	0.2315	58.9	0.044	0	0.74
359	138.9430390	-70.1029950	18.6937	0.0535	17.9241	0.0433	18.2447	0.2336	81.9	0.033	0	0.66
360	138.7970016	-70.1033887	18.4932	0.0656	17.8605	0.0605	18.2224	0.3419	67.6	0.141	0	0.66
363	139.1172006	-70.1038924	18.2718	0.0310	17.6517	0.0284	17.2768	0.0797	79.1	0.096	0	0.56
367	138.8496428	-70.1051053	19.2413	0.0827	18.4549	0.0662	19.1189	0.4925	89.4	0.194	0	0.49
368	138.8909370	-70.1057738	18.8707	0.0652	18.2070	0.0583	18.1226	0.2176	-42.5	0.091	0	0.63
369	139.0424644	-70.1059011	18.9051	0.0421	18.4280	0.0437	18.3246	0.1582	88.6	0.169	0	0.59
370	139.0183721	-70.1066024	17.2501	0.0180	16.6323	0.0164	16.0161	0.0368	-86.9	0.122	0	0.33
371	139.1492763	-70.1064378	18.0514	0.0304	17.3870	0.0268	16.9488	0.0714	-51.0	0.031	0	0.85
378	139.0653146	-70.1081753	19.0515	0.0819	18.8090	0.1078	18.3266	0.2808	-23.7	0.116	0	0.54
381	139.0765320	-70.1091357	17.8914	0.0482	17.5733	0.0592	17.8677	0.3152	37.5	0.126	0	0.11
382	138.9789110	-70.1093309	17.4330	0.0244	16.8485	0.0232	16.7605	0.0855	-87.7	0.178	2	0.89
383	138.9794853	-70.1104607	18.1704	0.0462	17.7598	0.0519	17.4679	0.1606	-82.1	0.264	3	0.63
385	138.8615485	-70.1096778	18.1627	0.0382	17.2978	0.0283	16.5525	0.0571	-77.7	0.093	0	0.42
388	139.0134667	-70.1102328	18.1912	0.0297	17.4417	0.0242	17.4293	0.0942	-83.6	0.085	0	0.80
389	138.8573802	-70.1104183	18.2480	0.0524	17.9637	0.0663	18.5001	0.4407	-38.4	0.174	0	0.58
390	138.9245663	-70.1106395	18.2070	0.0391	17.7230	0.0409	17.5247	0.1369	-68.7	0.077	0	0.83
393	138.8533666	-70.1133251	17.4197	0.0300	16.8064	0.0280	17.2623	0.1714	68.7	0.124	3	0.45
395	139.0082861	-70.1115120	18.0149	0.0258	17.4776	0.0253	17.3481	0.0888	-87.2	0.124	0	0.80
397	139.1351200	-70.1114313	18.9190	0.0378	18.3073	0.0346	17.8470	0.0892	-11.9	0.030	0	0.71
398	138.9362313	-70.1117280	18.5324	0.0432	18.0056	0.0433	17.7656	0.1394	81.8	0.092	0	0.73
399	139.0259048	-70.1120283	18.7094	0.0388	18.0685	0.0348	17.7889	0.1068	41.7	0.069	0	0.50
403	139.0677787	-70.1127228	17.3542	0.0304	16.9565	0.0346	16.8786	0.1301	42.2	0.060	0	0.35
404	139.0335335	-70.1130271	17.1092	0.0176	16.3295	0.0139	16.2124	0.0492	-73.4	0.432	0	0.55
406	138.9561332	-70.1132453	18.3154	0.0562	17.7782	0.0565	16.9367	0.1055	-48.7	0.122	0	0.65
407	139.0202464	-70.1132243	19.1279	0.0436	18.4413	0.0375	17.8727	0.0877	-44.4	0.146	0	0.49
409	138.8692002	-70.1144367	18.4105	0.0361	17.8742	0.0357	18.2333	0.1979	-85.5	0.089	0	0.79
410	139.0160592	-70.1143157	19.1399	0.0441	18.5802	0.0424	18.1226	0.1102	-43.5	0.138	0	0.48
411	138.8444303	-70.1147027	18.7296	0.0774	19.5801	0.2784	98.9062	99.0000	-65.0	0.129	0	0.77
413	139.0601803	-70.1157345	18.5981	0.0720	17.9764	0.0671	18.4394	0.4167	84.3	0.065	3	0.46
415	138.9522420	-70.1161277	18.0060	0.0424	17.2015	0.0333	16.3416	0.0609	77.6	0.124	0	0.00
416	138.9618186	-70.1161759	17.8082	0.0265	17.3606	0.0283	17.4889	0.1271	-47.3	0.162	0	0.30
417	139.0289000	-70.1160295	18.0880	0.0296	17.3664	0.0248	17.2849	0.0909	3.3	0.032	0	0.87
418	138.9209100	-70.1171669	15.7191	0.0078	15.1636	0.0074	14.8317	0.0213	-30.9	0.377	0	0.33
421	139.0876507	-70.1172605	18.8017	0.0447	18.1832	0.0412	18.1142	0.1541	-59.4	0.109	0	0.65
422	138.9694567	-70.1180461	17.9434	0.0323	17.2889	0.0289	16.5158	0.0568	8.2	0.430	0	0.16
425	138.8758691	-70.1182426	18.7072	0.0607	18.0241	0.0534	15.0109	0.0138	42.8	0.118	0	0.67
427	139.1417425	-70.1187305	18.1657	0.0277	17.5605	0.0256	17.3994	0.0871	-33.1	0.038	0	0.64
428	139.0680092	-70.1190414	18.0652	0.0609	17.3565	0.0525	17.7429	0.3039	23.5	0.097	0	0.03
429	138.8630412	-70.1191908	18.9044	0.0755	18.1381	0.0616	20.6610	2.5417	-57.2	0.076	0	0.58
430	138.8578557	-70.1193568	18.2038	0.0605	15.6784	0.0101	15.8638	0.0472	-39.1	0.096	0	0.07
432	138.8965834	-70.1197361	18.7889	0.0669	18.0056	0.0537	18.7769	0.4408	62.9	0.064	0	0.70

Figure A.105: Catalogue for A Field p1m1 (cont.)

433	139.0790427	-70.1199477	18.7497	0.0517	18.1927	0.0506	18.3173	0.2282	9.4	0.179	0	0.58
434	139.1673307	-70.1200697	18.1848	0.0487	18.2011	0.0810	98.9062	99.0000	-17.8	0.029	0	0.60
435	138.9109009	-70.1200153	19.1041	0.0974	18.5292	0.0949	19.5267	0.9652	57.8	0.238	0	0.25
440	138.9259917	-70.1208209	17.7557	0.0366	17.4736	0.0462	17.9037	0.2773	-57.4	0.107	0	0.84
441	138.8958827	-70.1207042	18.9983	0.0654	18.1899	0.0512	23.8084	36.3072	36.7	0.046	0	0.60
442	138.9653448	-70.1210732	18.6063	0.0384	17.8721	0.0318	17.7833	0.1161	-70.3	0.197	0	0.63
444	138.9567111	-70.1217840	17.3371	0.0272	16.8895	0.0294	16.5721	0.0885	38.7	0.157	3	0.79
448	138.9907433	-70.1229466	14.4805	0.0027	14.0834	0.0027	14.0253	0.0090	-76.2	0.367	0	0.18
449	138.9269610	-70.1219734	18.7656	0.0803	18.1286	0.0738	17.2024	0.1278	-43.8	0.085	1	0.00
450	138.9826319	-70.1220000	19.0092	0.0663	18.5532	0.0715	18.0500	0.1818	13.6	0.041	0	0.56
451	138.8439418	-70.1221828	18.4970	0.0587	17.5516	0.0407	17.8677	0.2192	75.0	0.122	0	0.20
452	138.8318407	-70.1223759	18.7598	0.0944	18.7061	0.1485	18.1499	0.3625	70.7	0.151	0	0.02
454	139.1531637	-70.1224514	18.4683	0.0452	17.8613	0.0423	17.9775	0.1891	35.5	0.076	0	0.74
455	138.8385129	-70.1229468	19.2668	0.1094	18.5408	0.0929	17.9391	0.2167	87.1	0.033	0	0.49
456	139.0058270	-70.1233146	18.1744	0.0308	17.6571	0.0310	17.7659	0.1362	-64.7	0.094	0	0.89
460	139.0657951	-70.1243497	18.3442	0.0612	18.0285	0.0754	17.4129	0.1737	-81.1	0.269	0	0.12
461	138.8495737	-70.1250958	18.9905	0.0736	18.8727	0.1084	18.9669	0.4799	-21.9	0.250	0	0.52
462	139.0419799	-70.1255933	17.4932	0.0353	17.0805	0.0397	17.3281	0.2017	49.6	0.086	0	0.01
464	139.0070689	-70.1259078	18.2903	0.0338	17.6531	0.0306	17.5321	0.1089	59.0	0.049	0	0.84
465	139.0918317	-70.1260376	18.2047	0.0355	17.7833	0.0391	17.7157	0.1476	-48.3	0.097	3	0.69
469	138.9240966	-70.1270090	17.0741	0.0276	16.4738	0.0261	16.8212	0.1449	-40.6	0.029	3	0.29
470	138.9270092	-70.1274911	17.8902	0.0444	17.2708	0.0414	17.5585	0.2180	78.8	0.060	3	0.20
475	138.8627817	-70.1270600	18.4135	0.0418	17.9423	0.0442	17.4569	0.1137	-62.1	0.200	0	0.58
476	139.0397035	-70.1273249	18.5010	0.0616	18.3053	0.0846	19.3487	0.8974	69.6	0.085	0	0.45
478	139.0374581	-70.1282204	18.4129	0.0562	17.9254	0.0591	17.7885	0.2109	-80.2	0.111	0	0.57
479	138.8258695	-70.1281681	17.7529	0.0405	17.4405	0.0498	17.3644	0.1883	-48.3	0.087	0	0.73
481	139.1674291	-70.1286668	17.6770	0.0323	17.3837	0.0402	17.0929	0.1243	-34.5	0.114	3	0.86
483	138.9744300	-70.1284736	18.7946	0.0572	18.1649	0.0526	17.7011	0.1384	-41.5	0.151	0	0.52
484	139.1047328	-70.1290177	19.1521	0.0445	18.5721	0.0421	18.3144	0.1313	-45.4	0.139	0	0.51
485	138.9863922	-70.1292518	18.9065	0.0545	18.4587	0.0589	18.0919	0.1691	32.2	0.006	0	0.49
486	138.9230144	-70.1296189	18.4911	0.0662	17.9317	0.0653	17.7031	0.2146	-32.4	0.134	0	0.09
487	138.9011662	-70.1299049	18.3532	0.0647	17.4103	0.0450	16.9849	0.1231	63.3	0.142	1	0.01
488	139.0614854	-70.1299695	18.4894	0.0553	17.7821	0.0476	17.9223	0.2183	-63.6	0.064	0	0.16
490	139.0700407	-70.1301449	18.1273	0.0543	17.6357	0.0569	17.6366	0.2309	-68.1	0.141	0	0.12
496	139.1323145	-70.1324440	17.0767	0.0240	16.6010	0.0253	16.4239	0.0866	-85.7	0.102	3	0.40
498	138.8320060	-70.1321491	18.2744	0.0484	17.8519	0.0539	17.3607	0.1387	-51.2	0.075	0	0.67
499	138.8628801	-70.1321939	18.4456	0.0365	17.9199	0.0364	17.5846	0.1068	67.7	0.055	0	0.83
501	138.8813125	-70.1327061	17.7638	0.0251	17.1858	0.0239	17.3231	0.1074	-14.4	0.017	0	0.89
502	138.9136051	-70.1327669	18.8110	0.0879	19.1230	0.1932	19.4367	1.0511	-90.0	0.261	0	0.36
504	139.0726570	-70.1332824	18.3861	0.0604	17.1519	0.0322	16.4629	0.0689	72.4	0.152	0	0.08
505	139.0964888	-70.1331836	18.3048	0.0480	17.8690	0.0527	17.3738	0.1351	-57.6	0.100	0	0.15
507	138.8142801	-70.1335762	18.9937	0.0670	18.4034	0.0640	17.6649	0.1311	-71.3	0.022	0	0.50
511	138.8654827	-70.1347635	18.0623	0.0289	17.4951	0.0278	17.5776	0.1189	-72.4	0.134	0	0.89
514	138.8311392	-70.1377264	15.0430	0.0043	14.4400	0.0038	14.0791	0.0102	-1.5	0.213	3	0.74
515	138.9031519	-70.1355188	18.2887	0.0575	17.7349	0.0570	18.3645	0.4123	45.3	0.150	0	0.20
516	138.8772927	-70.1359882	18.8847	0.0646	18.1836	0.0558	17.7768	0.1549	89.1	0.167	0	0.55
517	138.9189414	-70.1361582	18.4821	0.0451	17.5765	0.0323	16.7570	0.0608	-77.2	0.072	0	0.21
519	139.1701883	-70.1363574	18.7093	0.0564	18.0632	0.0511	17.9248	0.1814	-66.9	0.100	0	0.26
520	138.9505859	-70.1372736	17.5472	0.0220	16.7772	0.0176	16.0339	0.0351	-26.5	0.116	0	0.49

Figure A.106: Catalogue for A Field p1m1 (cont.)

522	138.9212400	-70.1374790	18.1909	0.0522	17.6432	0.0519	17.2752	0.1499	82.7	0.016	0	0.35
523	138.9257253	-70.1378874	17.7614	0.0353	17.0738	0.0308	16.4418	0.0693	81.3	0.186	0	0.29
524	139.1465455	-70.1379467	19.1293	0.0478	18.5422	0.0451	18.6763	0.2027	-43.8	0.124	0	0.51
525	139.0030368	-70.1384293	17.3291	0.0190	16.8448	0.0195	16.4403	0.0533	29.8	0.254	3	0.02
527	138.9305763	-70.1384945	18.2721	0.0340	18.0287	0.0439	18.2628	0.2181	-89.4	0.187	0	0.64
529	138.8506890	-70.1387047	18.0342	0.0348	17.6638	0.0403	17.5870	0.1510	-84.8	0.192	1	0.49
530	139.0851996	-70.1389109	17.8951	0.0289	17.3020	0.0272	16.8125	0.0693	-68.7	0.073	0	0.11
531	138.7981250	-70.1385044	18.4193	0.0444	17.9380	0.0466	17.8688	0.1760	-44.3	0.173	0	0.59
533	138.8441038	-70.1391308	18.2364	0.0610	17.4084	0.0471	18.5003	0.5206	-27.8	0.079	1	0.17
534	138.9141850	-70.1392091	18.3591	0.0602	17.5924	0.0491	17.1764	0.1356	42.0	0.011	0	0.37
535	139.1157476	-70.1392258	18.5449	0.0394	17.8492	0.0338	17.7156	0.1191	-83.0	0.085	0	0.71
536	139.1352690	-70.1392724	18.5711	0.0642	17.8774	0.0560	18.1533	0.2919	-45.5	0.099	0	0.67
537	138.8216629	-70.1395503	18.2654	0.0384	17.5128	0.0314	17.1770	0.0923	65.9	0.019	0	0.86
539	139.0318392	-70.1402946	18.3628	0.0543	17.6395	0.0460	17.3088	0.1371	-33.4	0.163	2	0.52
540	138.9537089	-70.1400670	18.1660	0.0457	17.6761	0.0478	16.9845	0.1022	-62.9	0.243	1	0.62
542	139.0436469	-70.1403797	17.8908	0.0344	17.3300	0.0336	17.1413	0.1134	-52.9	0.084	0	0.21
545	139.0395545	-70.1405022	18.0572	0.0355	17.6451	0.0396	17.3320	0.1195	-82.0	0.082	0	0.88
546	139.1004175	-70.1402012	19.0904	0.0778	18.6194	0.0830	17.8276	0.1623	72.3	0.269	0	0.48
547	138.8979485	-70.1406550	18.6051	0.0580	17.9490	0.0522	17.1758	0.1035	16.4	0.024	0	0.06
549	138.9414501	-70.1413558	17.5299	0.0244	16.6331	0.0175	15.8813	0.0349	-35.1	0.337	0	0.01
552	139.1079003	-70.1414324	17.8253	0.0317	17.3969	0.0348	17.2041	0.1172	84.5	0.071	0	0.88
556	138.8467439	-70.1430387	15.6441	0.0059	15.2276	0.0062	15.1928	0.0227	-24.3	0.105	3	0.04
558	139.1113741	-70.1424695	18.0985	0.0316	17.7552	0.0372	17.8237	0.1587	-82.5	0.132	0	0.70
559	139.0626860	-70.1428507	18.3050	0.0512	17.5052	0.0405	16.9855	0.1012	31.6	0.140	0	0.80
560	138.8792720	-70.1432854	17.4787	0.0334	16.8880	0.0319	16.1632	0.0661	-64.9	0.092	0	0.07
563	139.1032867	-70.1433641	19.1856	0.0845	18.5037	0.0744	18.0620	0.2006	-86.2	0.254	0	0.33
564	138.8624416	-70.1438120	17.9706	0.0304	17.0893	0.0222	16.4640	0.0495	60.2	0.368	0	0.12
565	139.0541085	-70.1439554	17.2670	0.0249	16.6751	0.0236	16.3877	0.0728	3.2	0.086	3	0.22
566	139.0518801	-70.1454851	15.6255	0.0059	15.0368	0.0053	14.8653	0.0172	87.4	0.288	2	0.87
567	139.1348656	-70.1440009	18.2469	0.0338	17.9119	0.0402	18.5180	0.2808	-52.9	0.130	0	0.65
571	138.9557445	-70.1447340	17.5203	0.0348	17.0100	0.0357	16.2328	0.0707	-38.1	0.047	0	0.06
572	138.8159941	-70.1449162	18.4731	0.0379	18.1508	0.0455	18.2617	0.2021	-73.1	0.054	0	0.67
574	138.8878618	-70.1452702	18.6327	0.0514	17.8714	0.0419	17.3635	0.1056	24.0	0.101	0	0.39
575	139.0949930	-70.1454418	18.0540	0.0482	17.6272	0.0536	17.4857	0.1905	-78.0	0.098	0	0.35
578	138.7908050	-70.1481579	17.1478	0.0263	16.4804	0.0234	16.8101	0.1273	-30.7	0.104	3	0.66
579	138.7898907	-70.1459427	17.6074	0.0410	16.7008	0.0294	16.8434	0.1354	-69.2	0.208	3	0.09
580	138.7879685	-70.1467661	16.9051	0.0259	16.0630	0.0197	17.4209	0.2759	-84.7	0.376	3	0.37
581	138.9969695	-70.1460874	18.6725	0.0489	18.4464	0.0646	18.0567	0.1821	76.2	0.107	0	0.52
583	138.8990900	-70.1462507	18.6785	0.0571	17.9443	0.0478	17.6926	0.1528	-75.8	0.172	0	0.70
588	139.0227241	-70.1472566	18.2354	0.0562	17.6086	0.0520	17.6720	0.2234	-46.3	0.091	0	0.17
590	138.9424416	-70.1474839	18.4089	0.0421	17.8767	0.0421	17.5318	0.1232	-82.8	0.153	0	0.77
591	139.0266288	-70.1478996	17.6027	0.0444	16.6918	0.0318	15.8753	0.0607	-66.4	0.585	0	0.00
592	139.0687568	-70.1474980	18.6175	0.0620	18.2886	0.0753	18.7142	0.4513	-86.9	0.078	0	0.59
593	138.8674336	-70.1475783	18.0030	0.0395	17.2541	0.0326	16.5837	0.0709	-47.3	0.064	0	0.34
594	139.1362397	-70.1476494	18.3829	0.0367	17.8322	0.0359	17.9309	0.1570	53.7	0.035	0	0.83
595	139.0809649	-70.1485362	16.7280	0.0193	16.0794	0.0174	15.5836	0.0442	9.3	0.403	0	0.16
596	138.8194035	-70.1482412	18.0920	0.0311	17.5184	0.0297	17.3108	0.0979	20.5	0.156	0	0.83
597	138.8322639	-70.1484500	18.7669	0.0575	18.0112	0.0472	17.5927	0.1293	-44.9	0.057	0	0.65
598	139.0361508	-70.1491044	16.4173	0.0098	15.7583	0.0085	15.5996	0.0282	-22.9	0.037	0	0.87

Figure A.107: Catalogue for A Field p1m1 (cont.)

599	138.9557759	-70.1485144	19.1223	0.0753	19.0867	0.1194	18.9488	0.4267	35.6	0.039	0	0.52
600	139.0634394	-70.1488682	18.8066	0.0592	18.3304	0.0626	18.2500	0.2347	76.4	0.113	0	0.66
601	138.7957606	-70.1491959	18.1428	0.0334	17.7306	0.0371	17.5081	0.1210	84.8	0.130	0	0.84
604	138.9067123	-70.1501532	16.9716	0.0226	16.5653	0.0254	16.3882	0.0869	82.2	0.046	0	0.78
605	138.9898618	-70.1505536	18.1448	0.0316	17.5583	0.0299	17.3010	0.0939	-52.3	0.053	0	0.88
606	138.9559968	-70.1506134	18.3922	0.0521	17.7955	0.0495	17.6509	0.1751	86.3	0.188	0	0.43
607	138.8192615	-70.1505359	18.8626	0.0574	18.0943	0.0465	17.8623	0.1510	-59.0	0.204	0	0.31
608	138.8340419	-70.1504967	18.4190	0.0585	17.5305	0.0427	16.9351	0.0998	-11.1	0.171	1	0.32
609	138.8482631	-70.1512675	16.5053	0.0133	15.8343	0.0116	15.0572	0.0225	-74.3	0.342	0	0.01
611	138.8772532	-70.1509955	18.3741	0.0513	18.3141	0.0795	18.6781	0.4504	-83.3	0.062	0	0.04
613	139.0849818	-70.1513072	18.3485	0.0586	17.6030	0.0487	16.8437	0.0981	46.7	0.225	2	0.13
614	139.1008229	-70.1518433	18.1080	0.0535	17.6342	0.0571	16.7910	0.1065	62.9	0.184	0	0.02
616	138.9928535	-70.1526889	16.2053	0.0093	15.8125	0.0101	15.7524	0.0373	-4.9	0.253	0	0.60
618	139.0156151	-70.1525093	18.1515	0.0491	17.5824	0.0479	16.8134	0.0955	37.2	0.028	0	0.00
619	138.7972555	-70.1525330	18.7939	0.0426	18.0378	0.0347	17.5983	0.0919	-68.3	0.095	0	0.66
621	139.0570142	-70.1540453	18.7489	0.0505	17.9837	0.0410	17.7322	0.1302	-53.6	0.196	3	0.67
622	138.9427943	-70.1532679	18.4077	0.0581	17.9143	0.0607	17.9938	0.2646	-17.8	0.168	0	0.64
623	138.9553828	-70.1534174	18.0106	0.0364	17.5424	0.0386	17.8788	0.2118	-76.9	0.094	0	0.80
625	139.0463253	-70.1538981	17.0716	0.0167	16.5928	0.0172	16.4946	0.0622	9.5	0.199	0	0.03
626	139.1472947	-70.0370103	17.1467	0.0178	16.9625	0.0239	16.7871	0.0812	-66.3	0.107	0	0.54
627	139.0202098	-70.1543068	18.9424	0.0686	18.4254	0.0701	18.2326	0.2373	-39.6	0.014	0	0.60
628	139.1648399	-70.1542679	18.9770	0.0712	18.4548	0.0725	17.9472	0.1839	5.7	0.036	0	0.56
630	139.1434116	-70.1544400	18.5437	0.0612	18.2747	0.0786	17.3811	0.1401	89.8	0.183	0	0.36
632	138.9874054	-70.1544767	18.8784	0.0690	18.0182	0.0516	17.4923	0.1284	62.8	0.378	0	0.50
634	138.8693238	-70.1559681	16.7725	0.0129	16.2201	0.0124	16.1708	0.0463	85.9	0.057	3	0.79
635	138.9320886	-70.1556385	18.7667	0.0646	18.2561	0.0665	17.7339	0.1664	-73.3	0.214	0	0.54
636	139.0149889	-70.1558128	17.8908	0.0432	17.4821	0.0488	17.3008	0.1671	5.2	0.383	0	0.12
638	138.8338708	-70.1563289	17.0280	0.0196	16.4851	0.0193	16.3712	0.0694	-18.4	0.176	0	0.87
639	138.8850047	-70.1567787	17.1986	0.0236	16.5688	0.0216	16.7135	0.0989	81.1	0.066	0	0.72
640	138.8207279	-70.1567276	18.7856	0.0705	18.3586	0.0784	18.4963	0.3609	-56.3	0.227	0	0.61
641	138.9785594	-70.1572390	17.5085	0.0335	17.1882	0.0409	18.2341	0.4329	-82.6	0.252	0	0.38
643	139.0497929	-70.1571704	18.2335	0.0375	17.4034	0.0287	17.4032	0.1144	-81.5	0.134	0	0.87
646	139.1726341	-70.0375314	18.0913	0.0312	17.7553	0.0369	17.1237	0.0828	-55.6	0.098	16	0.72
647	138.9546667	-70.0338488	17.9959	0.0390	17.8504	0.0557	17.5504	0.1712	-80.1	0.040	16	0.65
651	138.8929888	-70.1577614	18.8419	0.0548	18.0864	0.0449	17.8284	0.1422	64.2	0.120	0	0.63
653	138.9410142	-70.0392398	15.7828	0.0064	15.2151	0.0059	15.0985	0.0199	-43.8	0.118	2	0.85
654	139.0288688	-70.0380170	18.9184	0.0669	18.0791	0.0510	17.6545	0.1390	74.6	0.277	0	0.50
655	139.0542408	-70.0383718	19.2374	0.0845	18.2190	0.0548	18.0482	0.1888	-14.8	0.286	0	0.50
658	139.1611645	-70.1586422	18.9075	0.0728	18.5324	0.0848	18.1343	0.2383	0.8	0.156	0	0.55
659	139.1389241	-70.0343009	18.7607	0.0630	19.9557	0.3086	20.5377	2.1498	-73.5	0.292	0	0.48
660	138.7922265	-70.1592372	18.7964	0.0658	18.1535	0.0600	17.1096	0.0930	15.0	0.023	0	0.50
661	139.0016960	-70.0370084	13.7948	0.0017	13.4673	0.0017	13.4116	0.0053	-81.2	0.112	0	0.88
664	139.1181613	-70.0434877	16.9401	0.0228	16.3290	0.0213	16.0775	0.0678	-57.4	0.031	0	0.38
666	138.9773329	-70.0397561	15.2671	0.0043	14.5745	0.0035	14.4994	0.0117	-57.6	0.100	0	0.89
668	139.0440943	-70.0441566	18.6333	0.0613	18.2080	0.0682	18.0606	0.2411	69.1	0.103	0	0.67
669	139.1623687	-70.0357664	18.6655	0.0407	17.4487	0.0220	17.9011	0.1303	65.9	0.135	0	0.74
670	139.0702901	-70.0361517	17.7748	0.0382	17.1067	0.0340	17.2874	0.1619	66.7	0.294	0	0.64
671	138.8983824	-70.0431962	18.3306	0.0609	17.9281	0.0694	17.0121	0.1212	-76.6	0.166	0	0.05
672	139.1415461	-70.0390439	19.1238	0.0738	18.6919	0.0815	18.4067	0.2535	-73.7	0.137	0	0.50

Figure A.108: Catalogue for A Field p1m1 (cont.)

673	139.1728307	-70.0392275	18.5908	0.0412	17.9890	0.0385	17.5037	0.0986	-87.4	0.131	0	0.82
674	139.0635619	-70.0393997	19.2606	0.0662	18.3355	0.0465	18.1354	0.1549	2.4	0.020	0	0.51
675	139.0654512	-70.0410067	17.3599	0.0282	16.8956	0.0301	17.0454	0.1394	38.6	0.219	0	0.47
677	139.1758407	-70.0410987	19.2174	0.0505	18.6847	0.0501	19.3714	0.3747	-85.6	0.462	24	0.56
680	139.0229676	-70.0434508	18.0373	0.0459	17.8202	0.0616	17.2249	0.1445	-29.5	0.181	3	0.08
682	138.8804395	-70.0424064	17.9014	0.0404	17.5019	0.0459	17.4196	0.1720	-84.6	0.199	0	0.78

Figure A.109: Catalogue for A Field p1m1 (cont.)

7	138.5474106	-70.1605284	15.7703	0.0101	15.1863	0.0092	14.6711	0.0211	-80.0	0.326	3	0.02
12	138.5663470	-70.1616887	16.5792	0.0152	16.3402	0.0188	16.2758	0.0661	69.6	0.068	0	0.89
14	138.8064245	-70.1628694	17.3278	0.0247	16.8003	0.0238	16.7336	0.0835	-71.1	0.191	16	0.75
15	138.7763536	-70.1629757	18.5796	0.0518	18.0411	0.0496	17.9097	0.1647	89.7	0.166	0	0.57
17	138.7972635	-70.1636669	16.5914	0.0116	16.2207	0.0125	16.0392	0.0386	-1.6	0.203	24	0.65
18	138.5081950	-70.1638728	16.4984	0.0158	16.3418	0.0212	16.4014	0.0836	2.7	0.522	24	0.19
19	138.6152584	-70.1617052	17.5907	0.0334	17.2949	0.0399	17.5964	0.1978	39.4	0.052	2	0.86
20	138.6181601	-70.1613864	18.1148	0.0434	17.6957	0.0464	19.8236	1.2342	-4.2	0.287	3	0.67
21	138.8022176	-70.1603021	17.9537	0.0283	17.6694	0.0337	18.4096	0.2469	-76.7	0.062	0	0.75
22	138.8089732	-70.1604207	18.2186	0.0301	17.6787	0.0284	17.6953	0.1062	-0.9	0.063	0	0.63
23	138.4674262	-70.1608433	18.8231	0.0737	18.6083	0.0953	18.1582	0.2377	-5.7	0.014	0	0.49
26	138.7596769	-70.1588530	17.3121	0.0243	16.7901	0.0235	16.7366	0.0833	-27.8	0.167	0	0.12
27	138.6243104	-70.1596960	18.4859	0.0338	17.7763	0.0274	17.7754	0.1003	87.8	0.168	0	0.55
29	138.6697128	-70.1577159	17.4051	0.0287	16.8154	0.0263	16.6752	0.0862	-66.6	0.042	0	0.69
30	138.8335292	-70.1562319	16.5524	0.0162	16.3359	0.0206	16.4344	0.0844	-78.4	0.127	16	0.27
32	138.6520972	-70.1577138	18.4023	0.0379	18.0348	0.0421	18.0359	0.1568	89.5	0.142	0	0.59
39	138.6111243	-70.1564359	18.1693	0.0434	17.7790	0.0476	17.2929	0.1144	88.7	0.067	0	0.66
56	138.7368880	-70.0299706	18.3103	0.0346	17.6593	0.0297	17.7293	0.1168	-15.0	0.209	24	0.65
58	138.8256267	-70.0300969	16.2934	0.0124	15.8148	0.0124	15.6053	0.0376	-9.8	0.219	24	0.05
59	138.7465409	-70.0302292	17.9187	0.0267	17.3062	0.0236	17.0874	0.0711	-63.5	0.078	16	0.85
61	138.5825185	-70.0351145	14.5978	0.0034	14.2134	0.0034	14.0986	0.0106	56.8	0.395	2	0.83
62	138.7793799	-70.0314462	17.0857	0.0167	16.6442	0.0171	16.1642	0.0404	-71.0	0.105	0	0.81
63	138.7736773	-70.0341689	18.1872	0.0462	17.6380	0.0439	16.8204	0.0777	59.8	0.269	0	0.66
69	138.7668467	-70.0435366	18.5178	0.0449	18.0638	0.0463	17.7155	0.1257	-26.8	0.362	0	0.49
70	138.6680443	-70.0445005	16.4201	0.0198	16.4652	0.0324	16.4181	0.1168	72.6	0.137	1	0.15
71	138.7310885	-70.0457893	15.1070	0.0045	14.5085	0.0039	14.3063	0.0112	-36.7	0.341	0	0.15
72	138.6567303	-70.0458128	16.9675	0.0210	16.6283	0.0240	16.6419	0.0907	28.5	0.033	3	0.75
73	138.6528652	-70.0459945	16.3089	0.0183	15.7750	0.0176	15.4376	0.0484	-75.9	0.045	3	0.02
74	138.6940045	-70.0456775	17.4679	0.0277	16.8956	0.0256	16.9904	0.1043	-69.5	0.041	0	0.89
75	138.7796153	-70.0459914	17.7367	0.0246	17.3949	0.0277	17.5227	0.1155	-74.3	0.043	0	0.85
77	138.6485703	-70.0502463	13.6400	0.0018	13.3197	0.0019	13.2816	0.0060	-87.3	0.333	3	0.81
78	138.4787445	-70.0465077	17.5116	0.0337	17.1210	0.0370	17.0552	0.1310	64.2	0.015	0	0.23
79	138.8171300	-70.0465815	17.8341	0.0321	17.2547	0.0296	17.0915	0.0948	0.0	0.232	0	0.01
81	138.5245445	-70.0472802	18.6415	0.0517	17.9628	0.0436	18.6925	0.3186	-59.1	0.076	0	0.58
82	138.6997421	-70.0472327	18.3177	0.0522	17.6929	0.0464	17.6019	0.1602	-4.5	0.004	0	0.63
83	138.4731201	-70.0475648	18.1176	0.0432	17.2303	0.0302	16.4168	0.0534	-4.6	0.017	0	0.16
84	138.4771753	-70.0481455	17.0675	0.0249	16.7781	0.0299	16.6397	0.0988	-78.7	0.130	0	0.55
91	138.7890915	-70.0499392	15.9942	0.0139	15.7097	0.0167	15.6726	0.0604	-71.9	0.098	0	0.67
95	138.6600206	-70.0511589	16.1946	0.0112	15.9303	0.0134	16.0617	0.0559	-43.2	0.048	0	0.87
96	138.4843832	-70.0508327	18.3063	0.0408	18.0009	0.0481	18.1143	0.1997	-8.4	0.166	0	0.63
97	138.6011740	-70.0527187	14.3743	0.0048	13.7810	0.0043	13.4723	0.0119	71.9	0.116	0	0.03
98	138.4778520	-70.0515959	16.6981	0.0202	16.5736	0.0281	16.8883	0.1410	-85.1	0.143	0	0.48
100	138.7690090	-70.0524744	16.6736	0.0128	16.2977	0.0139	16.2519	0.0486	-67.9	0.149	0	0.81
103	138.7904892	-70.0526715	17.2131	0.0246	17.2768	0.0405	17.7054	0.2258	-82.5	0.660	0	0.10
104	138.7168028	-70.0529622	17.7146	0.0363	17.6315	0.0528	17.4688	0.1710	77.7	0.079	0	0.65
105	138.6563742	-70.0531061	17.8431	0.0466	17.5628	0.0568	17.6111	0.2241	-62.4	0.103	0	0.17
106	138.6655939	-70.0533177	16.6570	0.0242	16.4332	0.0310	16.5378	0.1284	-21.8	0.015	0	0.19
108	138.6507203	-70.0539877	18.0646	0.0448	17.7509	0.0528	18.3704	0.3512	-18.2	0.136	0	0.20
110	138.6869015	-70.0547457	18.0415	0.0357	17.6565	0.0391	17.4072	0.1162	-69.3	0.141	0	0.75

Figure A.110: Catalogue for A Field p0m1

112	138.6237787	-70.0552470	17.3320	0.0266	16.7902	0.0254	16.6550	0.0836	-51.4	0.065	0	0.87
113	138.8074726	-70.0551593	17.3538	0.0314	16.5025	0.0227	15.9342	0.0503	-57.1	0.256	0	0.00
114	138.4721157	-70.0553108	17.3077	0.0192	16.6997	0.0170	16.5158	0.0527	-55.4	0.056	0	0.85
115	138.6787737	-70.0552907	18.4079	0.0456	17.7259	0.0383	17.4162	0.1076	-69.2	0.141	0	0.59
116	138.7031357	-70.0554139	18.4763	0.0531	17.8566	0.0474	17.6407	0.1456	-43.3	0.165	0	0.62
117	138.4515848	-70.0558723	17.6734	0.0214	17.0612	0.0188	17.0360	0.0670	-86.1	0.247	24	0.89
118	138.7055032	-70.0561102	18.1161	0.0414	17.3884	0.0334	17.1542	0.1007	-57.7	0.060	0	0.70
122	138.8204658	-70.0562548	18.0591	0.0422	17.3836	0.0357	16.5836	0.0641	-81.1	0.138	0	0.04
124	138.5759987	-70.0564578	18.5342	0.0515	17.8277	0.0424	17.5941	0.1278	-9.6	0.031	0	0.52
125	138.6670125	-70.0577605	16.3312	0.0181	16.1437	0.0239	16.1066	0.0868	80.7	0.221	0	0.27
126	138.6138188	-70.0575562	18.2318	0.0331	17.5862	0.0285	17.4949	0.0967	-3.4	0.050	0	0.73
127	138.7340104	-70.0577913	17.1709	0.0234	16.7355	0.0245	16.9330	0.1096	-73.4	0.069	0	0.66
128	138.4816626	-70.0579482	17.4393	0.0311	17.1760	0.0383	17.1067	0.1350	-43.0	0.058	0	0.72
129	138.5927704	-70.0585500	16.0553	0.0110	15.3661	0.0091	14.9232	0.0222	89.2	0.088	0	0.06
131	138.7858492	-70.0595658	14.8589	0.0047	14.2493	0.0041	14.0690	0.0124	-59.8	0.227	0	0.88
132	138.4595799	-70.0590551	17.1949	0.0311	16.9975	0.0407	16.9286	0.1440	-87.6	0.158	0	0.00
133	138.5168887	-70.0588607	18.4885	0.0579	18.1955	0.0696	18.8707	0.4879	-76.6	0.031	0	0.48
134	138.6701437	-70.0588645	18.0627	0.0476	17.8078	0.0593	18.6032	0.4646	0.6	0.174	0	0.60
135	138.6278920	-70.0591248	18.1261	0.0332	17.4604	0.0282	17.4833	0.1066	-48.2	0.012	0	0.63
137	138.7572831	-70.0612226	15.6807	0.0074	15.4118	0.0087	15.5505	0.0360	-58.8	0.095	3	0.85
139	138.4749602	-70.0606305	15.6004	0.0076	15.2188	0.0082	15.1626	0.0284	-59.8	0.034	2	0.54
140	138.4795414	-70.0604010	16.9136	0.0269	16.5336	0.0299	16.3160	0.0919	-33.9	0.111	3	0.00
145	138.7143415	-70.0609020	18.1314	0.0476	17.5515	0.0441	17.1111	0.1103	1.8	0.077	0	0.58
146	138.6484451	-70.0617636	16.8152	0.0227	16.5728	0.0285	16.5931	0.1089	-85.0	0.169	0	0.61
147	138.5247341	-70.0616862	17.9398	0.0441	17.0297	0.0302	16.3501	0.0606	-79.2	0.011	0	0.01
151	138.5879095	-70.0628475	18.1897	0.0369	17.8597	0.0425	17.6746	0.1340	-85.3	0.096	0	0.62
153	138.5994615	-70.0646853	15.4640	0.0108	15.1337	0.0124	15.0958	0.0447	86.3	0.143	0	0.01
154	138.7750363	-70.0640484	18.2498	0.0446	17.8826	0.0499	17.6290	0.1482	80.2	0.104	0	0.53
155	138.4634687	-70.0646829	17.8469	0.0315	17.5788	0.0384	17.4631	0.1290	81.6	0.104	0	0.81
156	138.6824792	-70.0646700	18.1860	0.0408	17.6574	0.0394	17.3203	0.1081	-29.2	0.060	0	0.57
157	138.7926119	-70.0647151	17.4297	0.0324	17.1886	0.0408	17.5347	0.2110	-25.9	0.006	0	0.63
158	138.4925393	-70.0657255	17.8166	0.0308	17.3515	0.0314	17.3527	0.1170	-76.8	0.084	0	0.83
161	138.7162202	-70.0657331	18.6151	0.0528	18.2275	0.0580	17.7224	0.1367	-44.1	0.123	0	0.53
163	138.6747531	-70.0668898	18.0908	0.0445	17.3488	0.0355	16.7105	0.0740	5.2	0.004	0	0.04
164	138.4659776	-70.0674565	16.9159	0.0184	16.4274	0.0182	16.5881	0.0783	56.2	0.056	0	0.74
165	138.7185688	-70.0673240	17.8344	0.0276	17.4049	0.0288	17.3504	0.1018	-75.0	0.080	0	0.79
166	138.4565782	-70.0680504	16.1556	0.0117	15.6946	0.0119	15.6617	0.0426	-79.5	0.050	0	0.85
167	138.7913296	-70.0680538	16.9592	0.0269	16.8975	0.0399	17.1997	0.1988	7.1	0.183	0	0.07
168	138.7865826	-70.0689741	16.5926	0.0216	16.4506	0.0297	16.5057	0.1177	79.8	0.191	0	0.21
171	138.8264244	-70.0690875	17.7986	0.0420	17.0265	0.0327	16.4728	0.0737	-67.9	0.247	0	0.00
172	138.5089594	-70.0693290	18.0696	0.0458	17.4897	0.0424	17.4558	0.1543	74.9	0.212	0	0.11
174	138.8095937	-70.0699249	18.5723	0.0515	18.2036	0.0575	17.9815	0.1760	-74.3	0.141	0	0.50
175	138.6039608	-70.0706511	18.0663	0.0496	17.5766	0.0499	17.7506	0.2203	47.9	0.030	0	0.35
176	138.6655404	-70.0708783	16.8380	0.0228	16.6484	0.0300	17.3550	0.2162	-80.9	0.095	0	0.56
177	138.6097932	-70.0713236	16.4751	0.0150	15.8747	0.0135	15.6361	0.0400	70.0	0.150	0	0.87
179	138.7964258	-70.0712095	16.8963	0.0191	16.5495	0.0216	16.7102	0.0935	75.0	0.055	0	0.89
181	138.5233332	-70.0718932	17.3768	0.0247	16.8798	0.0244	16.8407	0.0877	-66.5	0.066	3	0.74
182	138.4769982	-70.0721150	16.3917	0.0166	16.2867	0.0235	16.3048	0.0895	-81.6	0.123	0	0.51
185	138.6546155	-70.0725983	18.6930	0.0463	18.1887	0.0455	18.4613	0.2176	-43.5	0.041	0	0.51

Figure A.111: Catalogue for A Field p0m1 (cont.)

186	138.5419510	-70.0733535	18.5208	0.0525	17.7505	0.0408	17.5740	0.1298	44.9	0.132	0	0.58
188	138.8270059	-70.0732765	18.1133	0.0483	17.5369	0.0449	17.0607	0.1088	-63.0	0.172	0	0.11
189	138.7584764	-70.0736120	18.2636	0.0494	17.7485	0.0484	17.7565	0.1831	-75.8	0.097	0	0.67
190	138.7669221	-70.0740643	17.7907	0.0308	17.1546	0.0269	16.8731	0.0773	-86.6	0.086	0	0.84
194	138.6241655	-70.0752187	17.8306	0.0258	17.2493	0.0235	16.9729	0.0671	-61.0	0.074	0	0.77
196	138.7152074	-70.0759154	16.9241	0.0183	16.4287	0.0180	16.1785	0.0531	81.8	0.365	0	0.62
198	138.7235569	-70.0767073	18.0523	0.0306	17.4090	0.0264	17.3524	0.0926	75.7	0.105	0	0.76
199	138.6618573	-70.0769398	17.5432	0.0304	17.1985	0.0347	17.3303	0.1468	-85.0	0.098	0	0.87
200	138.6084395	-70.0768395	18.5511	0.0550	18.1491	0.0598	17.6768	0.1455	-47.2	0.005	0	0.51
202	138.6657501	-70.0783565	17.8507	0.0354	17.7885	0.0521	18.1346	0.2695	-44.9	0.211	0	0.49
203	138.4768660	-70.0789004	16.6468	0.0221	16.5640	0.0321	16.8320	0.1547	-80.4	0.478	0	0.00
204	138.7080016	-70.0788395	18.4717	0.0620	17.8965	0.0577	18.1659	0.2781	-59.4	0.383	0	0.08
208	138.7200617	-70.0807345	14.1648	0.0024	13.7555	0.0023	13.6366	0.0069	-51.0	0.390	0	0.05
209	138.7603800	-70.0796151	18.1723	0.0464	17.5955	0.0431	17.7566	0.1873	-45.8	0.138	0	0.63
211	138.5140862	-70.0798135	18.2088	0.0388	17.6417	0.0361	17.3120	0.0995	33.9	0.056	0	0.63
212	138.5870173	-70.0799510	17.6473	0.0284	17.1599	0.0283	17.0168	0.0926	87.8	0.097	0	0.84
214	138.7945733	-70.0796803	18.5439	0.0549	18.3260	0.0705	17.7956	0.1629	-0.4	0.190	0	0.49
215	138.4869118	-70.0801502	18.1067	0.0378	17.6336	0.0383	17.5531	0.1329	67.1	0.046	0	0.66
216	138.4779758	-70.0805764	17.0843	0.0274	16.9361	0.0375	17.4151	0.2191	69.1	0.084	0	0.03
217	138.7022111	-70.0814127	18.1321	0.0532	17.2722	0.0383	16.6581	0.0817	75.5	0.312	0	0.00
218	138.7660795	-70.0817646	18.0956	0.0420	17.3853	0.0344	17.1552	0.1042	65.9	0.062	0	0.67
219	138.6256253	-70.0819658	17.9933	0.0283	17.4558	0.0268	17.1640	0.0758	-2.0	0.047	0	0.65
220	138.6527257	-70.0821932	18.0839	0.0383	17.7143	0.0427	17.2514	0.1044	53.3	0.016	0	0.65
221	138.4778129	-70.0821694	17.5121	0.0309	17.4853	0.0470	18.4671	0.4368	-85.8	0.249	0	0.01
222	138.4855951	-70.0824690	18.3950	0.0370	18.0441	0.0416	18.0445	0.1549	-69.4	0.182	0	0.63
223	138.5998750	-70.0833862	16.3533	0.0218	16.4314	0.0367	16.3979	0.1344	52.7	0.403	0	0.00
225	138.6718768	-70.0836519	17.9609	0.0421	17.6568	0.0501	17.6285	0.1834	-46.2	0.058	0	0.74
226	138.5192451	-70.0837906	18.1244	0.0414	17.5213	0.0374	17.9144	0.2005	-87.9	0.120	0	0.72
229	138.5787546	-70.0846867	18.3497	0.0426	17.7730	0.0393	17.5873	0.1237	89.0	0.045	0	0.50
230	138.6652241	-70.0851104	16.6687	0.0217	16.6855	0.0345	16.7881	0.1426	-84.7	0.132	0	0.38
231	138.5136046	-70.0849130	18.3718	0.0474	18.1254	0.0592	18.1799	0.2337	39.0	0.051	0	0.67
232	138.4580138	-70.0855094	16.5143	0.0173	16.1811	0.0198	16.3404	0.0859	-86.6	0.257	3	0.30
234	138.6731256	-70.0849837	18.5350	0.0532	18.0004	0.0512	18.2827	0.2489	-79.6	0.035	0	0.53
235	138.5511661	-70.0854589	18.7566	0.0604	18.2879	0.0618	17.7373	0.1399	-88.8	0.193	0	0.49
236	138.6878487	-70.0858454	17.9399	0.0420	17.3120	0.0371	17.1363	0.1185	89.9	0.414	0	0.17
237	138.6939804	-70.0861201	17.1005	0.0222	16.4805	0.0197	16.3737	0.0664	-87.7	0.135	0	0.85
238	138.7779358	-70.0859324	18.0037	0.0355	17.5336	0.0361	17.4872	0.1292	-66.8	0.067	0	0.38
243	138.5456276	-70.0866919	17.9956	0.0367	17.6888	0.0432	17.9677	0.2093	90.0	0.201	0	0.69
244	138.5027809	-70.0869624	16.7242	0.0185	16.1149	0.0165	16.0591	0.0584	-48.9	0.137	0	0.69
247	138.8342275	-70.0875060	16.8760	0.0179	16.6014	0.0216	16.7417	0.0913	87.1	0.100	25	0.39
249	138.4759562	-70.0881558	16.7307	0.0225	16.7834	0.0370	16.6983	0.1289	-81.7	0.092	0	0.31
251	138.4991391	-70.0886056	18.1333	0.0365	17.6395	0.0362	17.3741	0.1058	-61.6	0.049	0	0.60
255	138.6394139	-70.0899840	16.7927	0.0214	16.5035	0.0256	16.4108	0.0883	-44.1	0.415	0	0.10
257	138.5879988	-70.0901747	17.2954	0.0192	16.7860	0.0185	16.7604	0.0666	87.7	0.086	0	0.86
259	138.8050376	-70.0901301	17.5759	0.0285	17.1368	0.0298	17.4210	0.1442	33.4	0.065	3	0.60
261	138.6981588	-70.0902957	18.1669	0.0459	17.6956	0.0468	17.4571	0.1411	-45.9	0.091	0	0.64
263	138.8119497	-70.0904368	18.5692	0.0533	18.0257	0.0509	17.8466	0.1619	-88.4	0.203	0	0.52
264	138.5966831	-70.0912681	16.1424	0.0131	15.7078	0.0136	15.5072	0.0420	-81.2	0.075	0	0.84
265	138.4742310	-70.0915336	17.0064	0.0247	16.8773	0.0343	16.9752	0.1409	7.9	0.086	0	0.59

Figure A.112: Catalogue for A Field p0m1 (cont.)

266	138.7597735	-70.0913750	18.5689	0.0571	18.0986	0.0584	19.4485	0.7596	-39.5	0.036	0	0.50
267	138.7504440	-70.0915817	18.6505	0.0498	17.8668	0.0381	17.5775	0.1088	-39.3	0.010	0	0.51
268	138.6179756	-70.0920970	18.1312	0.0303	17.3744	0.0236	17.2066	0.0743	88.6	0.082	0	0.71
273	138.7361344	-70.0927049	18.0894	0.0371	17.4643	0.0328	17.3298	0.1079	-59.2	0.056	0	0.56
274	138.6371237	-70.0933545	17.3869	0.0275	16.9624	0.0292	17.0047	0.1134	-15.8	0.312	0	0.06
276	138.6008174	-70.0935418	16.9683	0.0231	17.0588	0.0392	17.0555	0.1470	-88.8	0.220	0	0.05
277	138.7280607	-70.0937485	17.7304	0.0251	16.9802	0.0197	16.9335	0.0691	-69.9	0.108	0	0.89
279	138.5014541	-70.0943892	17.4788	0.0356	16.7875	0.0298	16.7448	0.1074	19.0	0.064	0	0.58
280	138.4964755	-70.0949989	16.8008	0.0182	16.1051	0.0150	15.4185	0.0296	65.5	0.156	0	0.10
284	138.7459025	-70.0967353	17.9906	0.0353	17.3244	0.0300	17.1334	0.0937	-60.2	0.063	0	0.62
290	138.6395395	-70.0975840	18.0033	0.0406	17.6998	0.0482	17.9421	0.2263	-11.0	0.091	3	0.68
291	138.6375406	-70.0983890	16.8332	0.0222	16.5134	0.0259	16.3762	0.0855	-80.6	0.225	2	0.37
292	138.4763992	-70.0976781	17.3396	0.0274	17.3924	0.0449	17.6624	0.2163	-68.7	0.400	0	0.24
294	138.7041482	-70.0986723	16.7457	0.0190	16.1699	0.0175	16.0775	0.0598	-49.8	0.107	1	0.87
296	138.5065422	-70.1001917	16.8937	0.0183	16.3320	0.0170	16.3482	0.0639	75.8	0.128	3	0.79
298	138.6320294	-70.0986875	18.4730	0.0483	18.0766	0.0527	17.9252	0.1717	-74.0	0.007	0	0.50
300	138.5975353	-70.0999409	16.1916	0.0174	16.0947	0.0250	16.1144	0.0957	-43.2	0.175	0	0.11
302	138.7020423	-70.1002575	16.5886	0.0196	16.0845	0.0194	16.0235	0.0685	-16.7	0.084	1	0.36
303	138.7694385	-70.1001297	18.4672	0.0545	17.7196	0.0433	17.5126	0.1341	-74.7	0.097	0	0.69
305	138.6109759	-70.1021343	15.4246	0.0055	15.0146	0.0055	14.8912	0.0174	-61.1	0.234	0	0.89
306	138.7023131	-70.1022086	17.2174	0.0266	16.5410	0.0224	16.6135	0.0895	-79.0	0.049	0	0.67
308	138.5524830	-70.1024653	17.6552	0.0371	17.2795	0.0413	17.7517	0.2396	71.6	0.126	0	0.57
309	138.5772327	-70.1024034	18.0381	0.0437	17.3461	0.0365	16.6089	0.0694	-53.2	0.333	0	0.48
310	138.5144324	-70.1032337	16.5724	0.0168	16.0918	0.0168	15.8210	0.0488	-57.5	0.467	0	0.73
311	138.6000504	-70.1048945	14.1517	0.0023	13.7081	0.0022	13.6522	0.0066	84.6	0.156	3	0.86
313	138.6969365	-70.1039761	17.4862	0.0440	16.4754	0.0276	16.3101	0.0890	-72.8	0.067	0	0.13
314	138.8315414	-70.1037693	17.2946	0.0225	16.8125	0.0225	16.4812	0.0618	-48.7	0.026	0	0.78
319	138.5047505	-70.1046401	17.6914	0.0357	17.0444	0.0310	17.1733	0.1306	-80.4	0.152	0	0.29
321	138.5887341	-70.1051231	17.6855	0.0357	17.2697	0.0382	17.1224	0.1254	12.6	0.030	3	0.75
323	138.6928294	-70.1053997	16.7769	0.0311	16.3599	0.0335	16.5244	0.1471	74.2	0.089	0	0.02
324	138.5736137	-70.1055332	18.3167	0.0475	17.8184	0.0472	17.5364	0.1366	87.7	0.016	0	0.60
326	138.7585572	-70.1186748	12.7402	0.0011	12.3536	0.0011	12.2293	0.0031	-89.5	0.166	3	0.86
327	138.7828161	-70.1072718	12.9800	0.0016	12.5844	0.0016	12.5684	0.0056	-41.6	0.403	3	0.05
328	138.7453148	-70.0365905	17.4178	0.0207	17.1252	0.0243	17.3314	0.1088	-70.6	0.015	0	0.89
329	138.6092349	-70.1057583	18.3873	0.0586	17.6397	0.0466	17.4148	0.1423	70.2	0.111	0	0.40
330	138.7361909	-70.1056364	17.6389	0.0358	17.1510	0.0360	16.7533	0.0938	1.6	0.023	0	0.00
331	138.4504490	-70.1061639	18.3648	0.0399	17.8180	0.0377	18.4793	0.2577	90.0	0.505	24	0.47
332	138.6138045	-70.1066258	17.6727	0.0253	16.9590	0.0205	16.9516	0.0751	89.7	0.073	0	0.87
333	138.4757360	-70.1070305	16.6024	0.0170	16.5097	0.0242	16.6243	0.1008	81.4	0.079	0	0.74
336	138.7650760	-70.1078091	17.5227	0.0384	16.8886	0.0338	16.7460	0.1115	81.0	0.163	0	0.45
338	138.6933451	-70.1094096	17.7508	0.0993	16.7673	0.0639	98.9069	99.0000	42.8	0.372	0	0.00
339	138.5989728	-70.1090082	16.5988	0.0244	16.6513	0.0402	16.9659	0.2028	3.0	0.323	0	0.01
340	138.6293430	-70.1088483	18.4347	0.0477	17.7459	0.0399	17.4939	0.1181	-44.1	0.140	0	0.50
341	138.4630753	-70.1095079	17.5208	0.0208	17.0017	0.0199	16.7569	0.0583	-81.0	0.028	0	0.89
343	138.5258575	-70.1099405	18.1020	0.0410	17.7443	0.0463	18.2090	0.2662	-48.4	0.114	0	0.64
345	138.5181295	-70.1101010	18.7066	0.0616	17.9308	0.0477	18.1949	0.2277	41.5	0.006	0	0.52
346	138.5432666	-70.1108578	17.5329	0.0296	17.0123	0.0288	16.9113	0.0980	-60.8	0.130	3	0.78
347	138.5455087	-70.1117075	16.9900	0.0189	16.3078	0.0158	16.0903	0.0477	-83.5	0.156	2	0.51
348	138.6909940	-70.1114300	17.6621	0.0629	16.9511	0.0520	16.8855	0.1849	60.0	0.152	0	0.00

Figure A.113: Catalogue for A Field p0m1 (cont.)

349	138.5928356	-70.1114844	18.3384	0.0519	17.9346	0.0564	17.7126	0.1728	79.1	0.116	0	0.41
354	138.5562341	-70.1154633	17.0475	0.0180	16.7206	0.0205	16.6528	0.0714	-41.0	0.130	0	0.72
355	138.6208233	-70.1153312	18.1100	0.0401	17.4632	0.0348	17.5586	0.1418	89.3	0.162	0	0.59
356	138.7513074	-70.1159814	15.1763	0.0050	14.7753	0.0051	14.6630	0.0164	41.1	0.066	0	0.89
357	138.8186434	-70.1165243	16.5112	0.0314	16.0990	0.0340	98.9069	99.0000	63.2	0.070	1	0.00
358	138.5970827	-70.1171857	15.5258	0.0091	15.1173	0.0097	15.0464	0.0337	-47.0	0.053	0	0.83
359	138.4980323	-70.1164696	18.4117	0.0459	17.8882	0.0446	17.9171	0.1712	-4.6	0.022	0	0.50
361	138.4566319	-70.1171392	17.8943	0.0278	17.5530	0.0314	18.1455	0.2007	-67.2	0.047	0	0.78
364	138.6657985	-70.1183597	16.6005	0.0305	16.3418	0.0380	16.9080	0.2415	4.2	0.110	0	0.00
365	138.8193055	-70.1193866	16.4503	0.0238	15.9884	0.0246	16.2508	0.1178	-42.8	0.124	1	0.03
367	138.5080835	-70.1195560	18.5040	0.0495	18.1416	0.0556	18.6225	0.3246	-64.1	0.208	0	0.53
370	138.5223242	-70.1203041	17.9369	0.0316	17.2189	0.0256	17.3388	0.1058	-62.1	0.071	0	0.57
372	138.8253828	-70.1207785	17.1778	0.0195	16.4300	0.0153	16.3466	0.0520	50.1	0.277	0	0.13
374	138.8157161	-70.1216259	20.5469	0.8323	20.2551	1.0136	98.9069	99.0000	-53.3	0.114	1	0.00
375	138.4723662	-70.1218824	17.7235	0.0365	17.4342	0.0439	18.8769	0.6225	69.6	0.260	0	0.42
378	138.5489030	-70.1235487	17.6083	0.0357	17.0413	0.0334	16.8456	0.1045	-77.9	0.214	0	0.56
379	138.5832720	-70.1237291	18.0960	0.0337	17.6727	0.0356	17.6496	0.1297	-55.4	0.086	0	0.61
381	138.6970835	-70.1238130	18.4229	0.0428	17.8728	0.0404	18.0499	0.1774	-25.0	0.112	0	0.69
384	138.7204126	-70.0368094	17.9506	0.0321	17.4876	0.0327	16.8810	0.0699	41.9	0.069	0	0.74
385	138.6360046	-70.1314714	11.7199	0.0006	11.2834	0.0005	11.1603	0.0010	83.6	0.113	3	0.79
387	138.4627525	-70.1252422	17.7337	0.0332	17.3340	0.0360	17.3187	0.1329	81.5	0.091	0	0.67
388	138.7593151	-70.1251756	17.6120	0.0410	17.0868	0.0400	17.2523	0.1751	73.9	0.053	0	0.40
389	138.4502770	-70.1257882	18.0248	0.0318	17.5004	0.0306	18.1329	0.2032	90.0	0.557	24	0.61
390	138.6060062	-70.1259485	17.6762	0.0317	17.2725	0.0343	17.1905	0.1190	-74.9	0.544	0	0.01
393	138.7477775	-70.1275331	18.1131	0.0463	17.6640	0.0482	17.6927	0.1860	82.5	0.129	0	0.65
394	138.7568904	-70.1275237	18.0187	0.0467	17.2567	0.0367	16.6377	0.0778	-11.7	0.305	0	0.01
395	138.8254997	-70.1280456	18.4530	0.0401	18.0883	0.0447	18.3131	0.2049	-74.5	0.290	0	0.49
396	138.5134728	-70.1284388	17.9634	0.0459	17.4050	0.0433	17.0197	0.1143	-45.2	0.200	0	0.58
398	138.7461514	-70.1291191	16.0155	0.0096	15.3896	0.0083	15.1988	0.0254	65.2	0.256	0	0.86
399	138.5158001	-70.1290531	17.7771	0.0423	17.3473	0.0449	18.1869	0.3658	-56.8	0.138	1	0.68
401	138.5888073	-70.1297697	17.8527	0.0262	17.3569	0.0257	17.0686	0.0729	-87.5	0.128	0	0.83
402	138.4885910	-70.1301870	17.9243	0.0261	17.2591	0.0221	17.1301	0.0718	-85.3	0.016	0	0.64
404	138.4965923	-70.1305140	18.0977	0.0292	17.5009	0.0262	17.2386	0.0760	-82.1	0.166	0	0.71
406	138.6201540	-70.1317512	15.9198	0.0121	15.3967	0.0117	15.3113	0.0401	-86.9	0.036	0	0.78
407	138.7267610	-70.1312586	17.9495	0.0427	17.5218	0.0453	16.7072	0.0806	-42.6	0.097	0	0.67
408	138.4561227	-70.1314960	17.1162	0.0307	17.3699	0.0608	98.9069	99.0000	-63.0	0.138	0	0.00
410	138.7440143	-70.1320121	17.4394	0.0299	17.0969	0.0342	17.3878	0.1674	-74.8	0.048	0	0.72
413	138.6120596	-70.1334210	18.5241	0.0559	18.0790	0.0584	17.2427	0.1018	89.8	0.162	0	0.51
414	138.5623633	-70.1337288	18.1432	0.0408	17.5744	0.0380	17.2046	0.1011	-84.6	0.068	0	0.53
418	138.4678421	-70.1348022	18.0691	0.0287	17.7018	0.0316	17.4328	0.0913	-62.0	0.060	0	0.57
421	138.8307257	-70.1375891	14.9266	0.0048	14.3343	0.0042	14.0274	0.0113	-0.3	0.257	19	0.31
422	138.7245425	-70.1370978	18.2537	0.0422	17.6800	0.0391	17.1592	0.0905	69.8	0.171	0	0.62
423	138.6856964	-70.1375408	18.4649	0.0535	17.9139	0.0508	17.6395	0.1481	90.0	0.168	0	0.58
424	138.5271947	-70.1379376	18.6875	0.0555	18.0252	0.0476	17.7254	0.1351	-34.1	0.185	0	0.49
425	138.6176191	-70.1383150	17.9592	0.0426	17.4199	0.0409	17.9587	0.2518	57.3	0.047	0	0.76
426	138.6572823	-70.1384241	19.3470	0.2771	18.4257	0.1890	16.9992	0.1927	15.5	0.065	0	0.00
427	138.7456715	-70.1384704	18.1336	0.0475	17.6034	0.0460	17.8660	0.2198	-88.2	0.054	0	0.69
429	138.7147996	-70.1386308	18.2482	0.0382	18.1187	0.0528	17.6294	0.1261	-68.8	0.126	0	0.65
430	138.7977576	-70.1384194	18.3235	0.0442	18.0401	0.0533	17.7632	0.1550	-44.3	0.207	0	0.45

Figure A.114: Catalogue for A Field p0m1 (cont.)

431	138.6822417	-70.1392158	18.5627	0.0552	17.7728	0.0422	17.6411	0.1397	-69.4	0.123	0	0.51
433	138.8211341	-70.1394544	18.2201	0.0408	17.7703	0.0422	17.7026	0.1484	-76.1	0.055	0	0.57
434	138.7464589	-70.1405074	17.1517	0.0261	16.5897	0.0245	16.2412	0.0665	-37.2	0.421	0	0.12
435	138.6078786	-70.1404538	17.5815	0.0305	17.1170	0.0312	17.1713	0.1226	-86.3	0.017	0	0.88
437	138.4605917	-70.1438269	16.2922	0.0117	15.8854	0.0123	15.8220	0.0428	-79.6	0.229	3	0.39
438	138.5966262	-70.1410217	17.1457	0.0252	17.4773	0.0532	16.9558	0.1241	89.7	0.166	0	0.02
439	138.6209184	-70.1412578	17.8276	0.0282	17.2802	0.0265	17.0482	0.0795	-70.9	0.108	0	0.83
440	138.6543620	-70.1416827	17.1584	0.0369	16.3459	0.0277	16.1803	0.0894	28.0	0.112	0	0.04
444	138.7753961	-70.1427172	17.5971	0.0314	17.2754	0.0366	16.9856	0.1052	-63.9	0.116	0	0.67
445	138.8347473	-70.1431242	16.6817	0.0187	16.8522	0.0339	17.1699	0.1705	86.2	0.250	24	0.07
446	138.5964933	-70.1430914	16.8721	0.0219	17.3459	0.0525	16.6984	0.1092	-89.4	0.349	0	0.00
447	138.6612655	-70.1434089	18.1564	0.0540	18.1182	0.0822	18.0918	0.3028	-4.1	0.074	0	0.31
449	138.4975401	-70.1445057	17.8024	0.0412	17.0018	0.0312	16.3812	0.0661	-89.2	0.152	0	0.02
451	138.8154314	-70.1448410	18.5868	0.0454	18.3248	0.0557	19.0912	0.4216	-0.4	0.188	0	0.50
453	138.7901801	-70.1480788	16.4010	0.0198	16.2339	0.0267	16.4930	0.1273	-37.1	0.200	3	0.29
454	138.7894619	-70.1459050	17.0177	0.0291	16.8558	0.0394	16.6435	0.1223	-82.9	0.139	3	0.00
455	138.7874020	-70.1467437	16.1213	0.0184	16.1833	0.0305	16.2426	0.1215	-68.2	0.314	3	0.00
456	138.6373513	-70.1461689	17.5482	0.0264	17.2086	0.0301	16.9914	0.0920	-66.6	0.142	0	0.10
458	138.4556254	-70.1463709	17.2415	0.0301	17.4170	0.0553	16.7222	0.1101	-55.2	0.314	1	0.01
459	138.7105695	-70.1468221	17.1885	0.0190	16.5744	0.0167	16.5513	0.0602	-63.5	0.320	0	0.26
460	138.7283943	-70.1465655	17.7376	0.0333	17.2839	0.0344	17.3341	0.1348	86.2	0.042	0	0.56
461	138.4592128	-70.1469436	17.0934	0.0232	16.8112	0.0279	16.8014	0.1036	-67.2	0.058	0	0.85
462	138.5706864	-70.1473043	17.8271	0.0333	17.4234	0.0360	17.3573	0.1265	-75.6	0.082	0	0.78
464	138.7958525	-70.1472612	17.6165	0.0280	17.0827	0.0268	16.7908	0.0763	-75.2	0.081	0	0.85
465	138.7678553	-70.1478090	17.3559	0.0223	16.8748	0.0223	16.7472	0.0735	-56.9	0.317	0	0.06
466	138.5989933	-70.1478469	16.8834	0.0232	17.1992	0.0483	16.8573	0.1330	-85.3	0.281	0	0.01
471	138.8191835	-70.1481161	18.1015	0.0363	17.6938	0.0390	17.8178	0.1630	45.4	0.092	0	0.64
472	138.6643066	-70.1486671	16.8301	0.0251	16.7336	0.0361	16.7710	0.1407	-58.7	0.108	3	0.00
473	138.6614007	-70.1489943	16.4310	0.0202	16.1874	0.0253	15.8509	0.0698	12.4	0.123	3	0.02
474	138.7331229	-70.1491131	15.4981	0.0059	15.1268	0.0062	15.0825	0.0211	-40.7	0.218	0	0.86
475	138.5063271	-70.1487624	17.7651	0.0372	17.1569	0.0335	17.1313	0.1225	-55.1	0.031	0	0.69
476	138.8320038	-70.1483881	18.0727	0.0445	17.8502	0.0570	20.2351	1.9264	-41.7	0.146	0	0.44
478	138.7953005	-70.1491471	17.9920	0.0353	17.4856	0.0347	18.1254	0.2331	-75.6	0.099	0	0.63
479	138.7742372	-70.1491720	18.3710	0.0495	17.7254	0.0431	17.9284	0.1945	-64.9	0.085	0	0.67
481	138.6297905	-70.1497755	17.5920	0.0273	16.8008	0.0207	16.1975	0.0441	62.9	0.080	0	0.59
482	138.5717486	-70.1505101	17.7321	0.0341	17.1421	0.0312	16.9161	0.0947	-52.3	0.076	0	0.48
484	138.8337225	-70.1503826	17.4015	0.0316	17.3878	0.0489	16.6542	0.0938	-60.3	0.081	19	0.01
485	138.8352872	-70.1516899	16.4458	0.0160	16.5332	0.0268	16.4086	0.0898	-86.7	0.581	26	0.69
489	138.5948094	-70.1521145	16.5976	0.0219	16.4661	0.0304	16.4987	0.1179	-45.0	0.056	0	0.19
492	138.7967652	-70.1524626	18.3689	0.0465	17.8875	0.0470	17.5633	0.1306	-29.9	0.006	0	0.67
495	138.7041374	-70.0336830	18.5499	0.0581	18.1789	0.0651	18.0979	0.2273	-41.5	0.037	0	0.49
497	138.6991462	-70.1536401	18.2043	0.0402	17.8173	0.0441	17.9045	0.1787	84.6	0.140	0	0.71
498	138.6340304	-70.1542280	17.2454	0.0238	16.8117	0.0250	16.9438	0.1052	-62.7	0.027	0	0.88
502	138.7913505	-70.0330529	17.1855	0.0265	17.2072	0.0422	16.5409	0.0861	38.9	0.324	0	0.09
503	138.7157052	-70.0333372	18.1815	0.0441	17.4006	0.0339	17.2228	0.1076	76.1	0.084	0	0.53
505	138.6576583	-70.1560248	17.7316	0.0282	17.1309	0.0254	17.0267	0.0856	62.9	0.058	0	0.85
508	138.7561901	-70.0326040	16.9691	0.0157	16.3259	0.0135	16.1212	0.0408	-41.6	0.096	3	0.88
509	138.5855072	-70.0315072	15.1086	0.0050	14.7264	0.0052	14.5401	0.0156	66.4	0.431	19	0.79
512	138.6272239	-70.0332126	17.5687	0.0327	17.0429	0.0317	17.6093	0.1998	-8.6	0.123	0	0.21

Figure A.115: Catalogue for A Field p0m1 (cont.)

513	138.7597525	-70.0330196	17.4834	0.0228	16.7727	0.0186	16.3911	0.0481	-35.4	0.049	3	0.83
514	138.6636678	-70.0387642	17.8438	0.0405	17.5742	0.0497	18.5040	0.4399	36.3	0.053	0	0.65
517	138.7992308	-70.0348377	18.3011	0.0479	17.4624	0.0350	16.5057	0.0544	1.9	0.199	0	0.48
520	138.5593525	-70.0339930	18.1508	0.0323	17.4771	0.0272	17.0200	0.0661	-76.9	0.232	0	0.72
523	138.6047358	-70.0349435	16.8662	0.0237	16.6950	0.0317	16.2354	0.0782	-16.3	0.139	0	0.25
527	138.6497538	-70.0353280	17.1819	0.0288	17.4565	0.0579	98.9069	99.0000	-12.2	0.177	0	0.04
528	138.6329938	-70.0435646	16.1829	0.0102	15.7637	0.0106	15.7198	0.0372	67.2	0.404	0	0.88
529	138.7278523	-70.0399723	18.4283	0.0349	17.8609	0.0322	17.8711	0.1199	-3.6	0.050	0	0.66
530	138.7973978	-70.0404816	16.9043	0.0227	16.5116	0.0248	16.4574	0.0884	-32.8	0.345	0	0.48
531	138.6622982	-70.0411206	17.1717	0.0227	16.8706	0.0267	16.6248	0.0797	-77.9	0.129	0	0.87
532	138.6155159	-70.0420226	17.3119	0.0273	16.9326	0.0302	16.9641	0.1165	-46.4	0.411	0	0.01
533	138.6395469	-70.0428524	18.0000	0.0505	17.5524	0.0529	17.5820	0.2046	-79.6	0.103	0	0.12

Figure A.116: Catalogue for A Field p0m1 (cont.)

4	138.3692066	-70.1602695	16.8533	0.0189	16.5283	0.0231	16.3319	0.0812	-83.0	0.115	0	0.78
6	138.4664863	-70.1609548	17.5973	0.0358	17.3443	0.0471	18.5469	0.6052	82.5	0.295	0	0.35
11	138.1197688	-70.1623762	17.8754	0.0415	17.3751	0.0437	16.2615	0.0666	-52.7	0.095	16	0.24
12	138.1977306	-70.1631560	18.1498	0.0359	17.3142	0.0277	16.7908	0.0717	-70.2	0.148	16	0.71
13	138.3682312	-70.1636460	16.7520	0.0213	16.9324	0.0414	17.4419	0.2815	0.1	0.559	24	0.00
14	138.3208071	-70.1633723	19.1362	0.0754	18.6572	0.0809	17.2787	0.0968	-18.3	0.129	16	0.49
15	138.1185919	-70.1633935	18.9176	0.0576	18.0999	0.0452	17.1231	0.0776	-33.0	0.035	24	0.46
16	138.1266375	-70.1634957	18.3114	0.0274	17.7867	0.0274	17.3418	0.0751	-1.5	0.322	24	0.87
17	138.2961349	-70.1636372	18.6230	0.0529	18.1879	0.0588	17.5496	0.1386	-20.5	0.394	16	0.50
18	138.3252001	-70.1636661	18.9725	0.0618	18.5305	0.0683	17.2448	0.0888	46.4	0.139	16	0.49
19	138.4126523	-70.1638462	18.9075	0.0483	18.3658	0.0484	18.8410	0.3143	6.5	0.315	24	0.56
25	138.1785417	-70.1588403	17.2666	0.0287	17.0434	0.0387	16.7719	0.1281	-40.1	0.457	0	0.02
27	138.1723101	-70.1597634	17.7164	0.0267	17.1176	0.0253	17.7246	0.1853	75.1	0.011	0	0.89
28	138.2521033	-70.1611910	18.6130	0.0603	17.8316	0.0491	17.6265	0.1722	15.2	0.205	0	0.37
30	138.3039007	-70.1598205	18.2769	0.0412	17.4198	0.0312	17.3896	0.1275	-63.3	0.139	0	0.88
31	138.3391059	-70.1603722	18.4255	0.0608	17.7021	0.0523	16.5347	0.0759	-42.7	0.117	0	0.24
32	138.1181117	-70.1586323	18.5229	0.0377	18.1293	0.0429	17.5225	0.1032	90.0	0.126	0	0.73
33	138.4275995	-70.1588451	18.5873	0.0547	18.2318	0.0655	18.1622	0.2607	80.2	0.067	0	0.64
35	138.3932527	-70.1567974	17.2681	0.0229	16.8363	0.0253	17.0534	0.1301	84.2	0.132	0	0.83
36	138.4039625	-70.1584228	18.9882	0.0711	18.1147	0.0533	18.3029	0.2679	-78.1	0.123	0	0.60
37	138.3337833	-70.1570081	18.4692	0.0438	17.9120	0.0435	18.2427	0.2482	66.8	0.077	0	0.76
39	138.2445836	-70.1564756	18.2493	0.0401	17.6103	0.0370	17.4213	0.1308	-65.3	0.069	0	0.61
41	138.1698081	-70.1561628	18.2153	0.0326	17.7263	0.0341	17.3598	0.1021	-24.6	0.079	0	0.84
42	138.4449613	-70.1564279	18.2435	0.0507	17.4595	0.0412	16.7029	0.0870	73.7	0.300	1	0.01
43	138.3017937	-70.0419407	18.0546	0.0430	17.5656	0.0456	17.2234	0.1412	5.7	0.042	0	0.17
63	138.4879751	-70.0306177	17.7611	0.0348	98.9196	99.0000	98.9062	99.0000	-63.0	0.437	24	0.11
64	138.4914902	-70.0306082	18.5311	0.0503	98.9196	99.0000	98.9062	99.0000	-79.5	0.315	16	0.52
66	138.3218122	-70.0307974	18.6105	0.0497	17.9729	0.0459	98.9062	99.0000	-50.3	0.118	16	0.65
69	138.3846809	-70.0323863	19.1762	0.0493	18.6633	0.0504	18.8039	0.2397	72.5	0.031	0	0.50
70	138.3746913	-70.0339570	18.4335	0.0513	18.3828	0.0811	20.3488	2.1094	69.4	0.054	0	0.69
71	138.4004431	-70.0343161	17.4170	0.0222	16.8457	0.0216	16.9252	0.0969	31.3	0.362	0	0.02
74	138.4434564	-70.0364416	15.1343	0.0043	14.5592	0.0039	14.4404	0.0135	62.8	0.362	3	0.73
75	138.2449622	-70.0341925	18.3631	0.0443	17.8787	0.0470	17.3279	0.1198	16.6	0.021	0	0.89
77	138.3176543	-70.0438620	18.3646	0.0338	17.7282	0.0309	17.3892	0.0943	-82.0	0.161	0	0.81
79	138.2444456	-70.0442644	17.8417	0.0293	17.1483	0.0256	16.7793	0.0762	-72.5	0.087	0	0.87
80	138.3589091	-70.0443664	18.0999	0.0398	17.2968	0.0317	17.1255	0.1140	-32.3	0.086	0	0.78
82	138.3902842	-70.0449054	18.3419	0.0455	17.5062	0.0352	16.8987	0.0848	-84.3	0.118	0	0.27
83	138.4140366	-70.0448323	18.9130	0.0631	18.0266	0.0467	17.1804	0.0905	89.5	0.199	0	0.57
88	138.2974106	-70.0463985	17.4975	0.0319	16.6581	0.0246	15.9694	0.0550	63.6	0.294	0	0.44
89	138.4389316	-70.0459638	18.8373	0.0605	18.0782	0.0502	19.1943	0.5914	-43.4	0.045	0	0.53
90	138.3365010	-70.0461954	18.6652	0.0534	17.7178	0.0373	17.8051	0.1701	-35.4	0.152	3	0.70
91	138.3378414	-70.0466853	18.6219	0.0581	17.6300	0.0390	17.3179	0.1236	-33.3	0.118	3	0.63
93	138.4779143	-70.0463923	18.3260	0.0561	18.2557	0.0875	18.6085	0.5161	17.2	0.098	0	0.84
94	138.3675714	-70.0464862	19.1198	0.0845	18.4956	0.0795	18.2266	0.2640	-75.7	0.119	0	0.49
97	138.4686283	-70.0467566	18.2132	0.0475	18.4312	0.0961	18.5052	0.4385	-89.9	0.194	0	0.09
99	138.4726012	-70.0473664	17.4820	0.0352	17.0673	0.0401	16.3024	0.0842	-66.9	0.037	0	0.09
100	138.1657306	-70.0471313	18.1972	0.0493	17.9321	0.0643	16.7737	0.0942	-42.0	0.095	0	0.64
101	138.1686217	-70.0474119	17.8135	0.0404	17.3307	0.0431	16.4775	0.0836	30.3	0.148	0	0.01
104	138.1132475	-70.0477442	18.0397	0.0429	17.7289	0.0536	17.1970	0.1395	-82.2	0.311	16	0.13

Figure A.117: Catalogue for A Field m1m1

105	138.4760766	-70.0480675	18.5707	0.0669	17.9408	0.0627	18.2817	0.3649	-85.3	0.225	0	0.06
108	138.3523246	-70.0492778	18.4146	0.0369	17.8888	0.0374	17.4581	0.1055	85.7	0.104	0	0.88
110	138.3814269	-70.0494849	18.9527	0.0461	18.1191	0.0354	18.0850	0.1426	-48.6	0.087	0	0.56
112	138.4716117	-70.0497276	18.0651	0.0477	17.7260	0.0582	17.5156	0.2038	29.0	0.054	0	0.72
113	138.1247387	-70.0498058	18.6242	0.0677	18.4912	0.0998	17.4821	0.1682	-53.9	0.117	0	0.24
116	138.4836068	-70.0507295	18.0317	0.0291	17.9570	0.0441	17.6501	0.1403	77.4	0.053	0	0.87
117	138.3017124	-70.0508326	18.5842	0.0387	18.0692	0.0396	18.7304	0.3042	-74.7	0.088	0	0.65
118	138.2209748	-70.0508532	18.4345	0.0526	17.9745	0.0573	17.8584	0.2187	89.9	0.109	0	0.81
119	138.1960866	-70.0509105	18.6257	0.0578	17.7206	0.0421	17.6230	0.1623	67.4	0.029	0	0.80
122	138.4296273	-70.0518736	18.2206	0.0396	17.6730	0.0396	17.6864	0.1693	-62.5	0.098	0	0.84
123	138.2895771	-70.0525155	18.2620	0.0426	18.0343	0.0571	17.8198	0.1987	-53.5	0.140	0	0.66
125	138.3183797	-70.0537205	18.9590	0.0616	18.2288	0.0524	18.4875	0.2804	-14.8	0.280	0	0.50
129	138.3502837	-70.0540277	18.9180	0.0657	18.3960	0.0676	18.7129	0.3839	-40.2	0.032	0	0.48
134	138.1715358	-70.0549610	18.5706	0.0508	18.3227	0.0669	18.9882	0.5237	-1.3	0.119	1	0.76
135	138.4460078	-70.0553713	17.6842	0.0328	17.2136	0.0352	16.9939	0.1217	39.4	0.083	1	0.84
139	138.2876311	-70.0556808	18.3148	0.0348	17.7522	0.0341	17.6762	0.1331	-81.1	0.196	3	0.81
142	138.3131426	-70.0558847	19.1223	0.0522	18.5066	0.0489	18.0670	0.1368	73.5	0.105	0	0.49
147	138.2306584	-70.0570654	18.1724	0.0308	17.6360	0.0308	17.3819	0.1020	-64.9	0.052	0	0.89
148	138.2787910	-70.0575668	17.0344	0.0155	16.6765	0.0179	16.8024	0.0834	-9.6	0.061	0	0.63
149	138.3450404	-70.0574890	17.9744	0.0422	17.3512	0.0396	17.2426	0.1518	79.4	0.132	0	0.84
150	138.3664992	-70.0572424	19.1270	0.0736	18.8257	0.0928	18.3166	0.2469	-45.0	0.134	0	0.43
156	138.4085470	-70.0585222	18.6399	0.0510	18.0195	0.0479	17.6519	0.1442	-66.4	0.115	0	0.69
157	138.1342532	-70.0583216	18.8482	0.0633	18.5951	0.0833	18.4537	0.3110	-48.6	0.011	0	0.50
159	138.4590421	-70.0589316	18.2413	0.0336	17.6113	0.0310	16.9206	0.0688	73.1	0.071	0	0.10
160	138.3993602	-70.0591454	18.8739	0.0675	18.3966	0.0725	17.9120	0.1971	44.1	0.137	0	0.55
161	138.4115907	-70.0596596	17.6879	0.0263	17.0569	0.0242	16.7795	0.0785	74.2	0.474	0	0.16
162	138.2512006	-70.0607140	15.5769	0.0067	15.0039	0.0063	14.6967	0.0191	20.8	0.193	0	0.04
163	138.2585070	-70.0594603	18.4911	0.0379	18.0013	0.0396	17.6417	0.1195	21.3	0.005	0	0.83
164	138.1633603	-70.0594821	19.0082	0.0575	18.4744	0.0583	18.2641	0.2027	-18.3	0.140	0	0.51
168	138.4790091	-70.0603413	18.0496	0.0475	17.2120	0.0368	16.8774	0.1144	-60.9	0.228	0	0.07
169	138.3812632	-70.0606409	18.6128	0.0541	17.6173	0.0363	17.0564	0.0912	-16.2	0.010	0	0.62
171	138.4283181	-70.0609775	17.8733	0.0374	17.5369	0.0455	17.2569	0.1493	-60.9	0.030	0	0.73
173	138.2398255	-70.0614383	18.4667	0.0588	17.8492	0.0556	17.2759	0.1394	55.4	0.265	0	0.58
175	138.1810760	-70.0616371	19.1287	0.0786	18.3660	0.0651	17.4800	0.1223	88.4	0.198	0	0.49
178	138.2903652	-70.0629421	16.3556	0.0134	15.7676	0.0128	15.8456	0.0572	-1.7	0.285	3	0.22
181	138.2422243	-70.0625281	19.1070	0.0685	18.3394	0.0564	18.2541	0.2202	-77.8	0.137	0	0.49
182	138.2655574	-70.0632931	17.9362	0.0435	17.4725	0.0473	17.1393	0.1480	-15.5	0.045	0	0.62
184	138.3576898	-70.0638143	18.2887	0.0394	17.7692	0.0404	17.9066	0.1930	46.7	0.055	0	0.81
185	138.4472307	-70.0644456	17.1313	0.0166	16.7117	0.0183	16.6941	0.0747	-86.0	0.289	0	0.37
189	138.2526190	-70.0647477	17.7965	0.0384	17.2199	0.0376	17.3328	0.1768	71.0	0.334	0	0.52
190	138.1184335	-70.0645262	18.5422	0.0521	17.9224	0.0490	17.3253	0.1198	-53.8	0.108	0	0.75
193	138.3046387	-70.0653036	18.2561	0.0492	17.7763	0.0526	18.0588	0.2897	-84.1	0.110	0	0.63
194	138.4916994	-70.0656529	17.7873	0.0226	17.4136	0.0259	17.3197	0.0988	-67.9	0.074	24	0.84
195	138.2042540	-70.0654347	18.7406	0.0547	18.1498	0.0528	17.9293	0.1820	71.4	0.025	0	0.65
196	138.3383575	-70.0662176	18.4211	0.0404	17.5778	0.0309	17.3474	0.1047	82.2	0.075	0	0.83
197	138.4843406	-70.0663256	18.6170	0.0623	17.5853	0.0404	16.8688	0.0885	-47.8	0.185	0	0.14
199	138.4654628	-70.0673346	16.5323	0.0168	16.0886	0.0184	15.9645	0.0693	16.1	0.396	0	0.88
202	138.3795611	-70.0679644	18.2611	0.0356	17.8861	0.0414	17.5998	0.1340	-55.8	0.015	0	0.87
204	138.1871940	-70.0679842	18.3958	0.0535	17.9907	0.0614	18.5441	0.4337	-55.0	0.105	0	0.78

Figure A.118: Catalogue for A Field m1m1 (cont.)

205	138.2156110	-70.0678352	19.0546	0.0745	17.9952	0.0472	17.7898	0.1649	-1.1	0.141	0	0.71
206	138.2967152	-70.0684936	18.0904	0.0551	17.3293	0.0458	17.5720	0.2433	-68.4	0.051	0	0.43
208	138.2630822	-70.0688887	17.1446	0.0264	16.6378	0.0275	16.7808	0.1328	-35.1	0.016	0	0.42
209	138.4427983	-70.0687148	18.9232	0.0754	18.0975	0.0591	17.6338	0.1635	71.6	0.132	0	0.48
210	138.1554289	-70.0688563	18.2710	0.0380	17.7880	0.0402	17.8702	0.1825	-88.7	0.054	0	0.86
211	138.4499741	-70.0689391	18.9861	0.0567	18.7477	0.0751	18.7163	0.3090	86.4	0.061	0	0.66
217	138.2281925	-70.0704084	18.2910	0.0548	17.4790	0.0434	16.9953	0.1180	-36.3	0.122	0	0.05
218	138.3565097	-70.0706691	17.8626	0.0316	17.3517	0.0326	17.5526	0.1651	-21.5	0.106	0	0.18
220	138.3463812	-70.0719537	15.5222	0.0058	14.9251	0.0053	14.6997	0.0171	85.7	0.423	2	0.83
221	138.1874413	-70.0625970	18.8139	0.0547	18.6575	0.0783	18.5948	0.3135	-72.8	0.073	0	0.69
224	138.3085299	-70.0718235	17.0984	0.0217	16.6298	0.0232	16.5993	0.0951	-58.0	0.082	0	0.86
227	138.1248158	-70.0722974	17.2578	0.0241	16.6407	0.0226	16.5029	0.0837	62.5	0.225	0	0.77
228	138.3933699	-70.0723870	18.1253	0.0456	17.8568	0.0592	18.2748	0.3696	67.4	0.209	0	0.40
230	138.1152044	-70.0721715	18.7161	0.0527	18.0947	0.0494	17.7199	0.1479	-33.0	0.085	0	0.53
231	138.2269674	-70.0722299	19.1620	0.0735	18.3609	0.0588	19.7267	0.8731	-42.5	0.041	0	0.50
232	138.2672928	-70.0725834	18.3778	0.0604	17.5150	0.0458	18.3019	0.4004	66.5	0.041	0	0.33
233	138.1756330	-70.0724864	18.6398	0.0558	17.9471	0.0492	18.0278	0.2239	-84.2	0.018	0	0.81
234	138.3979212	-70.0728310	18.3639	0.0512	18.0504	0.0637	17.4786	0.1601	-89.8	0.043	0	0.69
235	138.1323979	-70.0728112	18.8895	0.0704	18.3416	0.0710	17.7106	0.1687	-89.9	0.376	0	0.52
238	138.3074798	-70.0739153	19.2541	0.0937	18.6179	0.0873	18.2934	0.2755	37.3	0.003	0	0.45
239	138.1421691	-70.0739823	18.8722	0.0657	18.7024	0.0934	19.5828	0.8937	-74.2	0.201	0	0.52
240	138.2420933	-70.0744094	18.1632	0.0355	17.3479	0.0278	17.1560	0.0975	-23.4	0.099	0	0.66
241	138.4153796	-70.0750669	19.1104	0.0757	18.5747	0.0770	18.6606	0.3540	15.0	0.280	0	0.51
244	138.2877931	-70.0753930	19.4884	0.1334	19.2067	0.1725	98.9062	99.0000	-44.6	0.144	0	0.37
246	138.1494860	-70.0763653	15.9197	0.0069	15.5375	0.0075	15.4275	0.0274	83.9	0.243	0	0.89
247	138.2471511	-70.0754870	19.1618	0.0760	18.2098	0.0530	18.1426	0.2104	-80.0	0.039	0	0.49
249	138.4018836	-70.0762017	19.3313	0.0906	18.5848	0.0763	18.7250	0.3683	-78.8	0.249	0	0.50
250	138.2796478	-70.0773459	16.9714	0.0275	16.5205	0.0302	17.1814	0.2357	-79.3	0.304	1	0.12
253	138.4053737	-70.0768621	19.3844	0.1004	18.5558	0.0785	18.0898	0.2172	47.5	0.148	0	0.24
257	138.1912466	-70.0775151	17.0228	0.0183	16.2266	0.0145	15.5361	0.0320	89.2	0.202	0	0.05
262	138.3829854	-70.0790466	14.9375	0.0037	14.2925	0.0031	14.1837	0.0105	-51.8	0.386	2	0.81
263	138.4548625	-70.0779023	19.0192	0.0663	18.3823	0.0615	18.3680	0.2567	-75.1	0.139	0	0.58
264	138.1193390	-70.0782051	17.6764	0.0239	17.1101	0.0233	17.0094	0.0884	-67.4	0.217	0	0.30
265	138.1981068	-70.0783353	18.5869	0.0483	18.0687	0.0497	18.2537	0.2490	-86.7	0.102	0	0.72
267	138.1616663	-70.0786296	18.1987	0.0492	17.5968	0.0472	17.0842	0.1249	86.4	0.521	0	0.09
268	138.4425691	-70.0788016	18.0570	0.0408	17.5595	0.0429	17.3489	0.1497	-86.0	0.120	0	0.64
269	138.4759275	-70.0788685	18.3674	0.0593	17.7599	0.0567	17.1531	0.1379	-81.8	0.342	0	0.30
271	138.2929140	-70.0808473	15.1029	0.0042	14.7075	0.0044	14.6777	0.0167	71.9	0.218	3	0.83
273	138.4861330	-70.0800761	18.1252	0.0306	17.6156	0.0314	17.5019	0.1183	44.1	0.061	0	0.89
275	138.3964877	-70.0866317	15.5750	0.0063	15.1967	0.0070	15.1232	0.0264	-77.8	0.289	3	0.87
276	138.3332844	-70.0801074	18.7100	0.0577	17.9762	0.0490	17.8050	0.1769	-80.2	0.020	0	0.74
278	138.4771088	-70.0805617	18.8221	0.0720	18.2431	0.0706	18.8373	0.5182	70.8	0.180	0	0.18
279	138.2404450	-70.0803863	19.0580	0.0687	18.7789	0.0882	18.1427	0.2087	-89.8	0.032	0	0.50
280	138.2201540	-70.0806505	18.6021	0.0394	17.9552	0.0357	17.7995	0.1294	-82.4	0.214	0	0.84
282	138.4340653	-70.0826944	16.7516	0.0184	16.0081	0.0154	15.4670	0.0391	60.3	0.287	3	0.01
283	138.4371497	-70.0827569	17.4817	0.0266	16.8130	0.0238	16.6808	0.0885	89.0	0.077	3	0.38
286	138.3780357	-70.0814462	19.0003	0.0580	18.6123	0.0671	19.3344	0.5516	-51.5	0.087	0	0.55
288	138.1831827	-70.0815945	18.4124	0.0447	17.9812	0.0498	17.7176	0.1653	70.1	0.069	0	0.80
291	138.3777626	-70.0826256	18.6603	0.0619	18.4231	0.0828	18.4555	0.3629	-70.5	0.175	0	0.57

Figure A.119: Catalogue for A Field m1m1 (cont.)

292	138.3740363	-70.0829479	18.2119	0.0448	17.8382	0.0527	17.4788	0.1608	-44.9	0.077	0	0.85
293	138.1122316	-70.0829418	18.6385	0.0494	18.0644	0.0483	98.9062	99.0000	90.0	0.153	16	0.59
294	138.2406648	-70.0833884	17.6447	0.0245	17.0352	0.0230	16.7222	0.0719	41.6	0.196	0	0.40
295	138.4220387	-70.0834546	18.8735	0.0448	18.3053	0.0437	18.0885	0.1499	84.9	0.128	0	0.68
296	138.2966470	-70.0836743	18.2446	0.0566	17.6235	0.0535	19.1677	0.9416	52.4	0.157	1	0.39
297	138.2206346	-70.0836784	18.8861	0.0636	18.2965	0.0616	18.3848	0.2829	-74.4	0.212	0	0.53
299	138.1260262	-70.0838488	18.7619	0.0561	18.1463	0.0530	18.4545	0.2973	-2.8	0.168	0	0.53
300	138.1423071	-70.0843935	17.9818	0.0366	17.7292	0.0479	17.4837	0.1618	83.1	0.116	0	0.77
302	138.3315277	-70.0849143	18.3529	0.0519	18.0170	0.0633	17.5273	0.1716	88.6	0.107	0	0.36
306	138.2506949	-70.0855729	16.7270	0.0140	16.1123	0.0129	15.9886	0.0477	25.8	0.314	0	0.74
307	138.3864665	-70.0853654	19.1550	0.0802	18.2992	0.0611	18.8093	0.4135	87.9	0.041	0	0.61
308	138.3070149	-70.0858380	17.7177	0.0414	17.1736	0.0419	17.2867	0.1976	-89.5	0.023	0	0.32
311	138.2076920	-70.0860563	18.1833	0.0492	17.9202	0.0642	17.9783	0.2880	-87.8	0.139	0	0.73
313	138.1718067	-70.0861708	18.4984	0.0442	17.8805	0.0415	18.6002	0.3386	4.0	0.114	3	0.84
314	138.1690895	-70.0862956	18.2598	0.0489	17.5445	0.0422	17.4062	0.1575	-45.8	0.043	3	0.32
315	138.4174612	-70.0864263	18.7100	0.0591	18.0322	0.0528	18.1269	0.2438	-85.4	0.169	0	0.61
317	138.1905733	-70.0868303	17.9883	0.0463	17.2471	0.0391	16.5548	0.0877	58.4	0.235	0	0.01
318	138.4058696	-70.0869777	18.9404	0.0491	18.4511	0.0516	19.1780	0.4227	-89.1	0.076	0	0.66
323	138.4628013	-70.0880494	18.8140	0.0453	18.3004	0.0465	18.4456	0.2229	-30.4	0.007	0	0.64
325	138.1923838	-70.0885059	18.0458	0.0422	17.1379	0.0306	16.4086	0.0660	42.1	0.070	0	0.14
327	138.1300600	-70.0885801	17.8447	0.0382	16.9994	0.0293	16.1302	0.0556	-77.4	0.090	0	0.09
329	138.2884221	-70.0890231	19.3254	0.0768	18.7883	0.0779	18.7804	0.3277	-44.8	0.203	0	0.49
331	138.1165821	-70.0895866	18.0561	0.0287	17.3450	0.0246	16.9399	0.0704	-74.4	0.098	0	0.89
332	138.4132594	-70.0900821	18.1211	0.0293	17.4542	0.0260	17.4994	0.1126	-73.0	0.105	0	0.88
338	138.1258715	-70.0910916	18.8425	0.0524	18.4732	0.0616	18.1402	0.1917	-49.5	0.096	0	0.60
340	138.4337118	-70.0921799	17.9689	0.0316	17.4889	0.0335	17.3565	0.1247	-82.4	0.107	0	0.88
341	138.3205856	-70.0921281	18.9607	0.0725	18.2254	0.0616	17.3415	0.1159	-81.7	0.290	0	0.53
342	138.1809135	-70.0921917	18.8883	0.0696	18.0818	0.0554	17.3855	0.1237	-89.6	0.177	0	0.55
343	138.3102862	-70.0923912	19.2931	0.0820	18.9456	0.0992	19.2501	0.5580	44.9	0.204	0	0.47
348	138.2777078	-70.0927016	18.5168	0.0563	17.9960	0.0581	18.9179	0.5757	89.5	0.175	0	0.53
349	138.3407085	-70.0934577	17.1227	0.0175	16.4379	0.0153	16.1214	0.0473	-62.8	0.241	0	0.48
351	138.3871066	-70.0933974	18.7371	0.0445	17.9488	0.0357	18.2226	0.1919	-89.8	0.106	0	0.82
352	138.3240697	-70.0941364	16.6290	0.0164	16.0337	0.0156	15.6088	0.0442	50.6	0.192	0	0.01
353	138.1618943	-70.0940995	17.0227	0.0272	16.3510	0.0244	15.7278	0.0584	-77.4	0.054	0	0.04
354	138.1547397	-70.0956119	15.0589	0.0039	14.6957	0.0042	14.6044	0.0150	-69.4	0.328	0	0.79
360	138.2968074	-70.0965544	17.4424	0.0230	16.9228	0.0234	16.7196	0.0814	85.8	0.095	0	0.89
361	138.3960189	-70.0966507	18.2027	0.0564	17.8727	0.0695	18.0317	0.3429	87.2	0.180	0	0.20
364	138.2131038	-70.0970157	18.5537	0.0420	17.9099	0.0384	17.4115	0.1020	-84.5	0.068	0	0.85
365	138.2354801	-70.0978177	17.8122	0.0348	17.2794	0.0354	17.0670	0.1229	62.3	0.305	0	0.26
366	138.4756488	-70.0976334	19.2581	0.0883	18.6523	0.0845	18.3497	0.2719	-73.8	0.296	0	0.49
371	138.2426830	-70.0997377	17.8856	0.0384	17.2529	0.0357	17.1459	0.1370	-0.4	0.002	0	0.84
372	138.1312905	-70.0995917	18.9225	0.0507	18.5506	0.0593	18.2785	0.1948	-0.6	0.161	0	0.50
373	138.2471476	-70.1006896	17.9580	0.0358	17.2491	0.0310	16.8968	0.0944	89.1	0.084	0	0.77
374	138.3453234	-70.1006458	18.6624	0.0551	18.2765	0.0642	18.1091	0.2333	64.8	0.177	0	0.50
375	138.1470369	-70.1004938	18.4262	0.0475	17.9381	0.0503	19.6072	0.9886	-88.5	0.129	0	0.67
377	138.1861123	-70.1011668	18.1917	0.0508	17.6423	0.0512	17.2468	0.1510	58.0	0.125	0	0.51
382	138.2937713	-70.1031875	18.6849	0.0419	18.4386	0.0546	18.0766	0.1649	78.3	0.118	0	0.67
383	138.2535061	-70.1032537	19.1087	0.0674	18.4790	0.0628	18.1067	0.1887	-69.8	0.105	0	0.52
384	138.1998711	-70.1036424	18.0894	0.0370	17.7766	0.0457	18.3025	0.3136	-81.7	0.184	0	0.73

Figure A.120: Catalogue for A Field m1m1 (cont.)

385	138.1770526	-70.1041378	18.7355	0.0527	18.3904	0.0634	17.7614	0.1507	-88.5	0.096	0	0.41
386	138.4782518	-70.1044787	19.0746	0.0708	18.4741	0.0679	19.2241	0.5737	27.4	0.310	0	0.56
387	138.4852588	-70.1047142	19.4201	0.0690	18.6068	0.0544	18.2723	0.1679	-74.4	0.274	0	0.47
388	138.1460164	-70.1054740	16.1157	0.0083	15.6800	0.0088	15.7694	0.0388	-40.0	0.297	3	0.88
391	138.4398552	-70.1052891	18.5182	0.0356	17.9428	0.0344	17.9886	0.1493	-31.9	0.073	0	0.57
393	138.4654984	-70.1057140	17.8895	0.0395	17.4305	0.0430	18.0707	0.3286	14.6	0.093	0	0.71
397	138.3180121	-70.1069080	18.0178	0.0261	17.4768	0.0259	17.6909	0.1306	-65.3	0.063	0	0.86
398	138.3882786	-70.1074237	18.1189	0.0458	17.1444	0.0313	16.4293	0.0685	-20.5	0.137	0	0.05
399	138.4239980	-70.1072894	18.8516	0.0383	18.3264	0.0385	18.1374	0.1342	-45.8	0.142	0	0.55
400	138.1343972	-70.1072146	19.3066	0.0490	18.7027	0.0459	17.9778	0.0982	-33.8	0.183	0	0.51
401	138.2102848	-70.1079017	19.0295	0.0733	18.5307	0.0773	19.2859	0.6574	83.5	0.172	0	0.30
403	138.3934497	-70.1082025	17.7861	0.0425	17.0244	0.0352	16.2399	0.0726	28.3	0.397	0	0.00
404	138.1516774	-70.1077918	18.9426	0.0643	17.9865	0.0447	17.4779	0.1180	-58.5	0.236	0	0.49
405	138.3094621	-70.1082577	18.1653	0.0297	17.5195	0.0269	17.2896	0.0904	84.1	0.130	1	0.84
407	138.1939438	-70.1091570	18.3523	0.0412	18.1645	0.0570	17.9431	0.1970	-73.8	0.119	0	0.89
413	138.1762782	-70.1110087	19.1037	0.0795	17.9794	0.0475	17.1755	0.0958	-42.1	0.149	0	0.53
414	138.1970184	-70.1112944	18.8275	0.0742	17.5685	0.0392	16.8543	0.0859	-27.5	0.056	0	0.26
416	138.2068194	-70.1118387	18.7257	0.0768	17.7836	0.0541	17.4319	0.1664	79.9	0.274	0	0.00
417	138.2864516	-70.1125877	16.8360	0.0150	16.2773	0.0146	16.2522	0.0590	51.9	0.293	0	0.07
418	138.4151361	-70.1122723	18.0676	0.0267	17.5464	0.0269	17.3888	0.0967	86.1	0.014	0	0.87
421	138.4604482	-70.1126251	18.6527	0.0353	18.0207	0.0322	17.9888	0.1295	0.5	0.040	0	0.54
422	138.1524371	-70.1128371	17.5298	0.0205	16.9019	0.0188	16.6523	0.0618	-87.9	0.194	0	0.88
423	138.2360908	-70.1128207	18.1809	0.0351	17.9863	0.0481	17.9761	0.2011	-87.0	0.076	0	0.89
425	138.2018679	-70.1132880	16.7811	0.0162	16.3499	0.0178	16.2285	0.0666	-46.0	0.007	3	0.89
426	138.1990189	-70.1136551	17.1951	0.0216	16.5982	0.0206	16.5258	0.0807	-64.6	0.223	3	0.65
427	138.2897598	-70.1129997	18.7034	0.0607	18.3113	0.0704	18.6693	0.4158	39.9	0.028	1	0.59
430	138.3675923	-70.1146203	17.8460	0.0408	17.2501	0.0393	16.7907	0.1092	-49.8	0.051	0	0.44
431	138.3708014	-70.1154089	18.4103	0.0630	17.8815	0.0648	17.3933	0.1759	-35.8	0.202	1	0.62
432	138.1489839	-70.1152609	18.4787	0.0346	18.1786	0.0427	17.6043	0.1056	-70.4	0.197	0	0.72
434	138.1768798	-70.1157481	18.1796	0.0388	17.8370	0.0467	17.4100	0.1335	-84.8	0.155	0	0.81
437	138.2779476	-70.1164625	17.1087	0.0283	16.9097	0.0391	16.5451	0.1189	-80.1	0.369	0	0.00
438	138.2879854	-70.1161638	17.8919	0.0288	17.4130	0.0304	17.2820	0.1132	48.0	0.058	0	0.80
441	138.4557355	-70.1171910	18.1040	0.0256	17.4879	0.0236	17.3296	0.0841	-89.5	0.101	0	0.68
446	138.4210783	-70.1177217	18.6337	0.0344	17.9107	0.0290	17.9202	0.1206	-84.5	0.006	0	0.52
447	138.2593527	-70.1177824	18.9020	0.0665	18.2697	0.0620	18.9549	0.4931	-42.1	0.012	0	0.48
448	138.4825244	-70.1182514	18.6193	0.0373	18.2040	0.0416	18.1457	0.1648	-54.6	0.072	0	0.68
450	138.1110739	-70.1184257	18.7177	0.0333	18.4186	0.0405	18.9767	0.2810	-89.1	0.323	24	0.75
451	138.3304899	-70.1187422	18.8539	0.0444	18.2271	0.0410	17.9839	0.1371	78.9	0.113	0	0.75
454	138.3667006	-70.1193941	18.1110	0.0543	17.8515	0.0714	17.8665	0.3085	74.0	0.050	0	0.55
455	138.3889019	-70.1196849	18.4417	0.0583	17.5027	0.0412	17.7925	0.2276	-78.6	0.130	0	0.28
456	138.1384467	-70.1192934	18.6966	0.0363	18.4831	0.0483	18.7725	0.2636	-62.5	0.021	0	0.51
457	138.1576782	-70.1195011	18.2866	0.0324	17.7681	0.0329	17.4331	0.1012	-89.3	0.083	0	0.85
460	138.3365778	-70.1201842	19.0737	0.0732	18.4039	0.0660	18.3885	0.2756	-0.9	0.258	0	0.50
464	138.2655266	-70.1224486	15.8096	0.0078	15.3973	0.0085	15.3680	0.0339	-14.4	0.408	3	0.52
466	138.1257217	-70.1219015	16.4232	0.0103	15.7616	0.0090	15.5836	0.0309	-80.6	0.423	0	0.24
467	138.2145214	-70.1214176	18.8103	0.0677	18.2805	0.0694	17.9131	0.2103	-47.4	0.084	0	0.58
469	138.4714076	-70.1219334	18.1294	0.0347	17.6603	0.0372	17.5432	0.1404	84.2	0.264	0	0.68
472	138.1792712	-70.1227419	18.5096	0.0714	17.9687	0.0727	17.9104	0.2935	52.6	0.117	1	0.27
474	138.1305934	-70.1227670	18.6305	0.0399	18.1180	0.0409	17.9581	0.1479	33.0	0.348	0	0.11

Figure A.121: Catalogue for A Field m1m1 (cont.)

476	138.1898816	-70.1236279	17.2615	0.0308	16.3387	0.0221	15.6043	0.0475	-89.7	0.182	0	0.01
479	138.1124977	-70.1240852	18.8477	0.0470	18.2483	0.0446	19.3513	0.5159	47.0	0.107	16	0.62
485	138.2505815	-70.1250939	18.1182	0.0383	17.8277	0.0484	17.8805	0.2149	81.2	0.088	0	0.72
487	138.4652164	-70.1253334	17.6417	0.0321	17.3769	0.0416	17.1230	0.1397	-35.2	0.399	1	0.49
488	138.1827598	-70.1253472	18.6866	0.0656	18.1705	0.0681	18.5527	0.4113	74.2	0.013	0	0.32
489	138.1687689	-70.1255660	18.8628	0.0603	18.4316	0.0674	18.7969	0.3997	-72.0	0.427	0	0.51
491	138.3760050	-70.1277183	17.5632	0.0377	17.0125	0.0378	16.6151	0.1115	37.3	0.223	3	0.25
493	138.2100868	-70.1261638	18.8209	0.0703	18.4035	0.0799	18.2069	0.2836	81.1	0.122	0	0.55
497	138.3908837	-70.1276656	17.4209	0.0258	16.9744	0.0282	16.8132	0.1025	-45.0	0.032	0	0.73
498	138.2148142	-70.1274519	19.0652	0.0505	18.5342	0.0509	18.5341	0.2136	43.5	0.133	0	0.55
499	138.2474244	-70.1280657	19.3178	0.0742	18.7052	0.0703	18.6843	0.2916	43.3	0.130	0	0.52
504	138.1682994	-70.1300852	16.5079	0.0112	16.0011	0.0113	15.9696	0.0449	-71.6	0.408	0	0.03
505	138.3315694	-70.1298195	18.6249	0.0517	18.0010	0.0484	17.9394	0.1931	78.8	0.118	0	0.57
506	138.4877198	-70.1302466	17.1317	0.0242	16.6471	0.0256	17.1557	0.1727	-75.1	0.174	1	0.88
509	138.3153737	-70.1304842	18.8586	0.0546	18.4136	0.0600	17.9664	0.1683	-89.4	0.159	0	0.53
510	138.4258846	-70.1308545	18.0378	0.0269	17.5504	0.0280	17.3014	0.0927	-79.3	0.086	0	0.89
514	138.1840001	-70.1310138	18.7302	0.0591	18.3158	0.0671	17.8483	0.1853	-89.5	0.152	0	0.47
515	138.2324271	-70.1310305	19.0388	0.0624	18.2458	0.0501	18.4760	0.2611	34.2	0.184	0	0.48
516	138.2369787	-70.1312855	18.3800	0.0492	18.5370	0.0941	18.1423	0.2787	-69.3	0.090	0	0.53
518	138.4552232	-70.1315764	18.5454	0.0461	17.9729	0.0451	17.9399	0.1845	-43.5	0.144	0	0.65
522	138.3985642	-70.1321148	18.4327	0.0501	17.7864	0.0460	17.5585	0.1578	27.0	0.114	3	0.67
524	138.1396763	-70.1317901	19.0358	0.0541	18.5437	0.0568	18.3950	0.2086	71.2	0.118	0	0.49
526	138.3738878	-70.1322234	19.3398	0.1025	19.3577	0.1740	18.6470	0.3862	-89.5	0.262	0	0.34
528	138.2209680	-70.1326931	17.2826	0.0179	16.8638	0.0197	16.9810	0.0912	72.3	0.170	0	0.33
529	138.4108899	-70.1329609	18.6591	0.0386	17.9281	0.0325	17.8199	0.1222	57.0	0.069	0	0.68
530	138.1802935	-70.1330955	17.4207	0.0277	16.6956	0.0236	16.0144	0.0532	-6.8	0.261	0	0.02
532	138.3739212	-70.1338401	16.7894	0.0164	16.5530	0.0215	16.6598	0.0996	-83.8	0.100	3	0.86
534	138.2379054	-70.1333295	18.6369	0.0516	18.1954	0.0570	17.6669	0.1483	-68.6	0.174	0	0.67
539	138.3662808	-70.1342793	19.1655	0.0996	19.2559	0.1809	21.0582	4.0637	-73.6	0.112	0	0.13
540	138.4668978	-70.1348019	17.2606	0.0238	17.0380	0.0319	17.1242	0.1457	-82.0	0.254	0	0.46
541	138.1226168	-70.1342467	18.5490	0.0438	18.1897	0.0518	17.5568	0.1224	-78.1	0.113	0	0.72
542	138.2185078	-70.1345312	18.4494	0.0428	17.8081	0.0393	17.3691	0.1104	-40.3	0.006	0	0.78
543	138.4175960	-70.1352608	15.7432	0.0082	15.0499	0.0070	14.6930	0.0206	3.6	0.527	0	0.01
544	138.3388526	-70.1348166	18.5715	0.0548	18.1898	0.0641	17.8923	0.2068	-37.0	0.040	0	0.60
545	138.3429869	-70.1352133	18.4707	0.0517	18.2111	0.0675	18.2045	0.2852	59.8	0.087	0	0.68
546	138.1108664	-70.1355111	18.9085	0.0430	18.4409	0.0457	18.8112	0.2685	-83.3	0.317	24	0.56
548	138.4670995	-70.1373907	17.9390	0.0404	17.7348	0.0556	17.3506	0.1659	80.6	0.668	0	0.24
549	138.1568175	-70.1372422	18.6629	0.0531	17.9351	0.0453	18.8113	0.4277	-80.2	0.107	0	0.35
550	138.3527219	-70.1377975	17.6084	0.0392	16.9212	0.0348	16.6370	0.1137	49.6	0.175	0	0.16
551	138.1860106	-70.1374450	18.9812	0.0723	18.6407	0.0880	18.4011	0.3002	45.9	0.108	0	0.66
555	138.1218000	-70.1409096	16.1352	0.0109	15.7553	0.0124	15.4555	0.0394	-32.4	0.185	3	0.08
556	138.1945073	-70.1396322	18.3062	0.0387	17.5919	0.0332	17.4766	0.1254	-29.3	0.074	0	0.88
557	138.3791306	-70.1399076	18.3333	0.0468	18.1678	0.0665	17.8863	0.2181	-76.3	0.091	0	0.36
558	138.1542560	-70.1397200	18.2044	0.0316	17.6860	0.0321	17.4067	0.1039	89.2	0.040	0	0.60
561	138.4873667	-70.1419859	15.2200	0.0050	14.6510	0.0047	14.5339	0.0167	37.4	0.377	24	0.87
563	138.4596856	-70.1438988	16.3237	0.0092	15.8808	0.0096	15.8008	0.0364	-79.0	0.164	3	0.80
564	138.4821845	-70.1413070	18.7509	0.0708	17.5307	0.0387	17.7290	0.1963	-78.9	0.373	0	0.06
570	138.4282811	-70.1426003	18.5027	0.0471	17.9793	0.0482	17.9847	0.2047	-65.3	0.088	0	0.67
573	138.2388070	-70.1436630	17.3319	0.0252	17.0067	0.0308	16.9140	0.1195	-75.0	0.070	0	0.81

Figure A.122: Catalogue for A Field m1m1 (cont.)

575	138.4109169	-70.1442160	18.7300	0.0500	18.3492	0.0582	17.5351	0.1164	-50.8	0.121	0	0.64
578	138.4154779	-70.1444658	19.0848	0.0659	18.7093	0.0774	18.1676	0.1995	-74.7	0.279	0	0.49
579	138.4365042	-70.1448751	18.2025	0.0308	17.4669	0.0258	17.3682	0.0976	-76.8	0.176	0	0.87
580	138.1500648	-70.1454220	18.0007	0.0293	17.3876	0.0274	17.1648	0.0932	89.9	0.041	0	0.84
584	138.4671751	-70.1464296	18.2656	0.0459	18.1004	0.0653	19.0483	0.6640	80.3	0.389	0	0.03
585	138.3225698	-70.1467440	18.6445	0.0400	17.9470	0.0347	17.7047	0.1158	87.8	0.135	0	0.72
587	138.1353786	-70.1476190	14.9812	0.0037	14.3729	0.0032	14.1549	0.0099	84.1	0.263	0	0.32
589	138.2414881	-70.1490703	18.9401	0.0735	18.2528	0.0653	17.9520	0.2101	-68.2	0.219	3	0.57
592	138.1778773	-70.1477433	17.9663	0.0318	17.2390	0.0270	17.0183	0.0922	-13.0	0.237	0	0.22
600	138.4264707	-70.1492967	18.7374	0.0488	18.3655	0.0572	18.2378	0.2149	1.1	0.138	0	0.45
602	138.3498067	-70.1503093	18.1525	0.0402	17.5742	0.0392	17.2085	0.1181	-48.9	0.298	0	0.63
603	138.3030944	-70.1503869	18.2662	0.0482	17.7141	0.0483	17.6443	0.1918	-79.2	0.225	0	0.57
608	138.2390760	-70.1511858	17.6997	0.0327	17.0629	0.0303	16.8772	0.1077	-4.0	0.148	0	0.18
610	138.3300080	-70.1531457	16.5121	0.0113	15.8705	0.0101	15.9444	0.0440	-35.2	0.242	3	0.63
611	138.1824235	-70.1517527	18.6494	0.0627	18.0243	0.0589	17.7651	0.1970	-25.4	0.058	0	0.67
612	138.2670080	-70.1518739	18.5135	0.0469	18.1018	0.0532	17.3669	0.1145	-63.9	0.067	0	0.71
613	138.3186868	-70.1523640	18.0937	0.0303	17.6300	0.0324	17.3337	0.1034	-89.1	0.113	0	0.69
614	138.1760901	-70.1522143	18.4843	0.0531	18.0122	0.0572	17.7003	0.1821	68.9	0.144	0	0.71
615	138.3115012	-70.1523927	18.4094	0.0487	18.0644	0.0588	18.2414	0.2935	-71.6	0.157	0	0.80
619	138.3026580	-70.1531929	18.0551	0.0435	17.6840	0.0513	17.3473	0.1599	87.0	0.061	0	0.79
620	138.3969162	-70.1532313	18.1620	0.0484	17.7794	0.0566	17.2504	0.1479	-88.8	0.033	0	0.25
621	138.2286678	-70.1532976	18.5726	0.0533	17.8589	0.0460	17.8688	0.1963	-76.3	0.109	0	0.38
623	138.3114035	-70.0319183	17.6255	0.0307	17.6234	0.0505	98.9062	99.0000	-50.6	0.079	0	0.83
624	138.4347883	-70.1533945	18.8260	0.0601	18.2604	0.0594	18.6181	0.3493	-71.9	0.022	0	0.76
625	138.1586455	-70.1532699	18.3348	0.0546	17.5831	0.0457	17.7247	0.2209	89.4	0.097	0	0.71
628	138.3169136	-70.0318225	18.3679	0.0540	17.7390	0.0505	98.9062	99.0000	81.5	0.298	0	0.09
629	138.3524677	-70.1545668	18.6851	0.0507	18.0227	0.0458	18.0168	0.1920	-89.0	0.102	0	0.71
630	138.2236560	-70.1549052	18.6719	0.0601	18.1219	0.0604	17.8543	0.2003	63.6	0.207	0	0.63
631	138.4642071	-70.1556673	17.9666	0.0435	17.6865	0.0559	17.7487	0.2519	-5.8	0.085	0	0.68
632	138.2835542	-70.1557119	18.5327	0.0636	17.9677	0.0631	17.7404	0.2178	-87.9	0.118	0	0.63
635	138.4684312	-70.0329912	18.3470	0.0465	18.4950	0.0880	19.3707	0.8384	77.6	0.560	1	0.47
636	138.4685509	-70.0317668	17.5848	0.0351	17.7610	0.0684	17.0584	0.1527	70.6	0.364	17	0.00
638	138.4021019	-70.0368115	18.7459	0.0470	18.3766	0.0551	18.3929	0.2358	76.2	0.024	0	0.60
639	138.2415753	-70.0338731	18.7427	0.0450	18.8450	0.0807	17.8663	0.1391	-50.8	0.295	0	0.68
643	138.3282660	-70.0367827	18.9841	0.0563	18.3017	0.0499	18.6881	0.2994	-18.1	0.057	0	0.51
645	138.4705526	-70.0350741	17.4615	0.0367	17.7833	0.0820	16.9380	0.1608	25.6	0.208	0	0.00
646	138.3237565	-70.0332615	18.3194	0.0426	17.6939	0.0398	98.9062	99.0000	-47.7	0.340	0	0.10
650	138.3593776	-70.0426572	18.3532	0.0539	17.7988	0.0539	17.4732	0.1697	-81.9	0.133	0	0.86
651	138.3358561	-70.0434091	18.0779	0.0451	17.4339	0.0415	17.3593	0.1643	-61.1	0.156	0	0.57
653	138.4186077	-70.0426605	17.1610	0.0223	16.6292	0.0225	16.3849	0.0757	27.2	0.447	0	0.26
654	138.4279430	-70.0344408	18.9016	0.0447	18.4882	0.0500	18.8304	0.2873	88.2	0.241	0	0.61
655	138.2506606	-70.0378003	17.9422	0.0397	17.3308	0.0376	16.7650	0.0947	-15.2	0.076	0	0.88
659	138.3694141	-70.0427735	17.7215	0.0288	17.3400	0.0334	17.1816	0.1216	-81.8	0.097	0	0.61
662	138.2580952	-70.0399298	18.3592	0.0353	17.8171	0.0352	17.2369	0.0866	-17.3	0.054	0	0.88
663	138.2867484	-70.0400462	18.6866	0.0426	18.3550	0.0515	18.7418	0.3092	-1.3	0.089	0	0.65
667	138.3424831	-70.0412075	18.7647	0.0739	18.2501	0.0770	17.8211	0.2207	-41.7	0.099	0	0.72
669	138.3362036	-70.0416986	18.5392	0.0441	17.7958	0.0369	17.9188	0.1734	68.8	0.061	0	0.83
670	138.4689879	-70.0419274	17.5615	0.0349	18.2453	0.1081	17.6285	0.2618	83.1	0.556	0	0.01

Figure A.123: Catalogue for A Field m1m1 (cont.)

5	201.5662829	-38.4842232	17.8357	0.0298	17.3461	0.0302	17.1098	0.0811	-85.9	0.189	0	0.81
7	201.6229266	-38.4849189	17.6311	0.0378	16.9668	0.0330	16.6092	0.0798	-51.5	0.183	2	0.79
8	201.6245067	-38.4856908	17.8182	0.0452	17.2164	0.0418	16.4564	0.0701	-44.9	0.196	3	0.09
11	201.5186286	-38.4858812	17.0748	0.0239	16.3137	0.0190	15.5424	0.0312	-81.4	0.155	16	0.09
14	201.6288348	-38.4868280	16.3943	0.0158	15.8422	0.0151	15.2937	0.0305	41.5	0.154	18	0.03
15	201.6309137	-38.4867365	17.8183	0.0423	17.3042	0.0423	17.1191	0.1203	-64.0	0.272	19	0.00
16	201.4976220	-38.4866593	18.0244	0.0319	17.4295	0.0293	17.3576	0.0913	79.0	0.196	16	0.70
18	201.4850555	-38.4869191	17.5807	0.0253	17.2689	0.0299	17.2433	0.0977	-89.4	0.125	16	0.88
19	201.5151329	-38.4868669	17.9342	0.0432	17.3043	0.0389	16.8221	0.0839	-80.6	0.162	16	0.03
21	201.5669016	-38.4868568	18.7803	0.0609	18.5157	0.0762	17.8390	0.1380	-74.5	0.290	0	0.36
24	201.5591673	-38.3637404	18.7931	0.0386	18.7109	0.0557	18.6534	0.1764	7.6	0.289	24	0.56
26	201.5472521	-38.3721678	18.5781	0.0396	18.0401	0.0383	17.9265	0.1148	-73.5	0.125	0	0.53
27	201.5432520	-38.3747608	19.0181	0.0682	18.5619	0.0717	18.0256	0.1474	45.6	0.140	0	0.46
28	201.5614058	-38.3752523	18.4951	0.0621	18.3477	0.0869	17.8053	0.1783	-86.4	0.206	0	0.50
29	201.5735022	-38.3765581	15.4082	0.0054	14.8828	0.0051	14.7384	0.0142	-38.6	0.229	0	0.35
31	201.5997868	-38.3770314	18.5970	0.0580	18.5315	0.0872	18.5182	0.2909	89.2	0.211	0	0.49
32	201.5491715	-38.3773246	18.8625	0.0665	18.7711	0.0978	18.7963	0.3378	-71.2	0.299	0	0.47
36	201.5480765	-38.3793868	17.7220	0.0408	17.5634	0.0564	16.9943	0.1130	-66.4	0.413	0	0.04
39	201.5840202	-38.3801870	17.6106	0.0243	17.1889	0.0260	17.1709	0.0851	-70.2	0.148	0	0.88
40	201.4942905	-38.3811588	18.3914	0.0627	18.6225	0.1242	17.4062	0.1374	-88.4	0.023	0	0.46
41	201.4891698	-38.3826643	16.4855	0.0185	16.1123	0.0209	15.3020	0.0334	76.5	0.431	3	0.74
44	201.6284402	-38.3821624	18.5984	0.0548	18.1865	0.0600	17.9676	0.1650	-58.8	0.161	0	0.50
45	201.4801896	-38.3820688	18.7483	0.0661	18.1754	0.0626	17.7587	0.1438	57.1	0.095	0	0.49
46	201.5196986	-38.3835343	18.6724	0.0642	18.4600	0.0845	17.7569	0.1496	39.9	0.197	0	0.48
47	201.5908306	-38.3841316	17.8031	0.0469	17.3386	0.0492	16.9095	0.1119	86.9	0.216	0	0.26
48	201.6297626	-38.3845456	18.7785	0.0579	18.2678	0.0578	17.7271	0.1183	-77.6	0.161	0	0.49
49	201.6116961	-38.3862410	16.8927	0.0225	16.3213	0.0212	15.8061	0.0444	-65.7	0.145	0	0.74
52	201.4938879	-38.3879513	17.4600	0.0323	17.1659	0.0393	16.8232	0.0967	82.3	0.074	0	0.87
54	201.5961485	-38.3886504	18.6821	0.0745	17.6968	0.0486	16.9890	0.0854	-85.3	0.186	0	0.48
57	201.5284329	-38.3898971	18.7398	0.0599	18.1216	0.0544	17.2558	0.0825	75.0	0.290	0	0.37
59	201.6117448	-38.3909485	17.6031	0.0378	17.3305	0.0471	17.0429	0.1221	87.1	0.102	0	0.76
62	201.4863058	-38.3915355	18.7745	0.0693	18.2248	0.0671	18.2098	0.2232	82.0	0.228	0	0.49
63	201.6066836	-38.3928360	18.0439	0.0470	18.0228	0.0738	17.7416	0.1924	-53.3	0.016	0	0.63
64	201.5000505	-38.3931814	18.2884	0.0546	17.7571	0.0538	17.8431	0.1963	-80.7	0.175	0	0.55
65	201.6013588	-38.3934675	18.0837	0.0512	17.5264	0.0492	16.9980	0.1021	31.0	0.228	2	0.47
67	201.5572455	-38.3936921	18.5604	0.0652	17.7664	0.0506	17.3019	0.1111	-78.3	0.128	0	0.50
68	201.4970826	-38.3941875	17.4483	0.0353	16.8383	0.0323	16.6671	0.0930	-78.2	0.097	0	0.77
69	201.5084612	-38.3953315	18.6411	0.0578	18.3447	0.0704	18.8682	0.3839	-75.1	0.447	0	0.42
70	201.4869900	-38.3957577	17.8917	0.0448	17.3351	0.0430	16.6712	0.0788	-81.2	0.199	0	0.33
71	201.5198752	-38.3959907	18.2307	0.0373	17.8117	0.0403	17.4202	0.0942	-82.8	0.233	0	0.66
72	201.5230065	-38.3961263	18.2476	0.0469	17.6247	0.0424	17.7430	0.1586	38.3	0.096	0	0.55
73	201.5322561	-38.3968938	18.6143	0.0722	18.1037	0.0726	17.9697	0.2166	90.0	0.281	0	0.49
76	201.5303976	-38.3981885	17.5137	0.0385	16.9997	0.0385	16.2026	0.0624	80.5	0.188	0	0.23
78	201.6153661	-38.3985955	19.1429	0.0968	18.6672	0.1006	20.1936	1.3850	-85.0	0.240	0	0.46
80	201.6186945	-38.4000398	18.7196	0.0821	18.0365	0.0705	18.2624	0.2933	86.0	0.191	0	0.53
81	201.4749321	-38.4002003	17.8105	0.0338	17.1473	0.0293	16.8206	0.0727	-89.8	0.540	24	0.55
83	201.5033489	-38.4006512	18.1963	0.0375	17.7147	0.0383	17.2874	0.0867	-83.3	0.175	0	0.67
84	201.4767844	-38.4009619	17.4879	0.0340	16.8125	0.0293	16.6893	0.0880	89.5	0.184	0	0.77
85	201.5426415	-38.4015222	18.9544	0.0691	18.2711	0.0592	18.7147	0.2991	74.7	0.112	0	0.46

Figure A.124: Catalogue for B Field p1p0

86	201.5454836	-38.4017265	18.3468	0.0623	17.6717	0.0539	17.8063	0.2057	-75.5	0.183	0	0.61
89	201.4843626	-38.4033774	17.6476	0.0264	17.1428	0.0263	17.0131	0.0779	-87.4	0.154	0	0.80
90	201.4879738	-38.4029033	18.8853	0.0713	18.4746	0.0783	18.3421	0.2339	-90.0	0.371	0	0.45
92	201.6080253	-38.4041914	18.3348	0.0367	17.7680	0.0346	17.5929	0.0982	-77.8	0.187	0	0.57
95	201.5236388	-38.4071155	18.7648	0.0641	18.7933	0.1051	18.1281	0.1926	61.3	0.323	0	0.48
97	201.5642169	-38.4079234	18.7140	0.0677	18.4866	0.0880	17.9530	0.1819	-76.3	0.242	0	0.49
99	201.4886804	-38.4095716	17.6665	0.0357	17.0982	0.0339	16.9006	0.0951	52.8	0.426	0	0.66
100	201.4932332	-38.4094647	19.1631	0.0832	18.6212	0.0812	18.6255	0.2748	-89.4	0.211	0	0.43
102	201.5015775	-38.4100955	17.9860	0.0459	17.5627	0.0499	17.0959	0.1095	81.4	0.275	0	0.54
103	201.5898307	-38.4102590	18.6777	0.0666	18.2549	0.0724	17.6711	0.1428	-82.5	0.330	0	0.49
105	201.6075586	-38.4112975	18.0407	0.0399	17.1822	0.0291	16.4507	0.0498	-46.5	0.154	0	0.43
106	201.5146482	-38.4110522	18.8338	0.0629	18.3394	0.0639	18.0240	0.1608	-68.9	0.018	0	0.48
107	201.5487278	-38.4113701	18.5094	0.0527	17.9588	0.0509	17.9313	0.1667	-65.2	0.281	0	0.49
109	201.6009083	-38.4135132	18.3248	0.0534	17.8566	0.0556	17.9113	0.1971	84.5	0.210	3	0.53
110	201.5879916	-38.4118140	18.9459	0.0737	18.2647	0.0633	18.2397	0.2083	-69.7	0.260	0	0.48
112	201.5616235	-38.4124580	17.9101	0.0394	17.5758	0.0463	17.6255	0.1631	-88.9	0.169	0	0.79
113	201.5141410	-38.4136380	17.7751	0.0283	17.2400	0.0274	16.9800	0.0720	-85.0	0.164	0	0.82
116	201.5311506	-38.4139172	18.0461	0.0411	17.7551	0.0502	17.3051	0.1118	80.1	0.198	0	0.52
117	201.5495777	-38.4139546	18.2242	0.0323	17.6126	0.0291	17.3300	0.0745	88.3	0.114	0	0.52
118	201.5668796	-38.4145652	18.3843	0.0576	17.7562	0.0520	17.2739	0.1124	82.2	0.231	0	0.62
119	201.5715038	-38.4148139	18.5561	0.0685	17.7345	0.0519	17.8398	0.1925	-83.2	0.359	0	0.50
125	201.5013432	-38.4168356	18.4997	0.0584	18.0565	0.0622	18.2949	0.2612	-76.9	0.183	1	0.56
126	201.4866536	-38.4170676	18.2828	0.0356	17.8358	0.0374	17.7222	0.1124	-83.5	0.122	0	0.62
131	201.5019428	-38.4198249	15.5679	0.0076	15.0456	0.0073	14.7972	0.0191	-83.6	0.296	0	0.87
132	201.5859375	-38.4187642	18.1896	0.0489	17.7034	0.0501	17.8021	0.1847	-82.6	0.208	0	0.56
134	201.5235096	-38.4190682	18.8316	0.0598	18.6738	0.0825	18.0718	0.1599	-45.9	0.146	0	0.47
135	201.4969203	-38.4196930	18.8487	0.0759	18.1065	0.0617	17.3727	0.1059	75.7	0.220	0	0.48
136	201.5649784	-38.4199356	18.3472	0.0534	18.0578	0.0655	18.2134	0.2551	-67.6	0.147	0	0.60
137	201.4840436	-38.4200251	18.3068	0.0512	17.4713	0.0382	16.6154	0.0585	84.5	0.124	0	0.60
138	201.5863155	-38.4207054	17.8694	0.0470	17.6139	0.0596	17.7707	0.2326	88.0	0.282	0	0.60
139	201.5333946	-38.4205026	18.4368	0.0445	17.8341	0.0408	17.6585	0.1163	-79.1	0.269	0	0.46
140	201.4774999	-38.4213422	17.4972	0.0342	16.5931	0.0240	16.1057	0.0513	-10.9	0.094	0	0.07
141	201.5078763	-38.4216337	18.6832	0.0662	18.5105	0.0904	18.4456	0.2878	83.1	0.330	0	0.49
142	201.5882500	-38.4218196	19.0292	0.0904	18.6385	0.1015	18.3700	0.2679	-67.3	0.255	0	0.48
143	201.5660017	-38.4223479	17.8653	0.0324	17.2203	0.0286	16.7882	0.0642	-87.7	0.172	0	0.75
146	201.5105840	-38.4231006	15.9956	0.0103	15.5206	0.0104	15.3351	0.0290	-81.5	0.414	0	0.35
150	201.5529040	-38.4226635	17.8475	0.0258	17.3063	0.0247	16.9219	0.0576	-88.7	0.138	0	0.55
152	201.4959504	-38.4223117	18.6584	0.0622	17.7467	0.0433	17.2523	0.0923	67.2	0.274	0	0.39
154	201.5434120	-38.4237988	17.3523	0.0180	16.9878	0.0201	16.9935	0.0666	79.8	0.122	0	0.88
156	201.5842144	-38.4247295	19.1432	0.0787	18.4185	0.0649	17.9298	0.1395	75.1	0.288	0	0.45
157	201.5032613	-38.4250900	18.1518	0.0369	17.5453	0.0337	17.0122	0.0690	-78.4	0.332	0	0.54
158	201.5147714	-38.4248999	18.7052	0.0471	18.1573	0.0453	18.0223	0.1337	76.9	0.116	0	0.50
159	201.5180899	-38.4256854	18.4770	0.0392	18.0565	0.0421	17.9536	0.1280	79.1	0.190	0	0.52
160	201.5403643	-38.4258988	17.5677	0.0204	16.8588	0.0167	16.7629	0.0501	-83.5	0.169	0	0.69
162	201.4840231	-38.4259309	17.7177	0.0427	17.1162	0.0394	16.6546	0.0869	-73.7	0.278	3	0.04
166	201.5121468	-38.4265264	18.9391	0.0702	18.3177	0.0636	18.0966	0.1748	-64.9	0.219	0	0.47
167	201.5898710	-38.4273842	17.2211	0.0277	16.8530	0.0315	16.4283	0.0716	-89.2	0.258	0	0.89
168	201.6208590	-38.4270223	18.4321	0.0422	17.8980	0.0411	17.7906	0.1246	-88.9	0.152	0	0.53
169	201.5060346	-38.4272707	17.8071	0.0285	17.4711	0.0330	17.3206	0.0962	-80.9	0.155	0	0.84

Figure A.125: Catalogue for B Field p1p0 (cont.)

170	201.5636923	-38.4282639	16.4149	0.0125	16.0412	0.0138	15.7864	0.0363	35.7	0.211	2	0.88
171	201.5631179	-38.4300087	17.4005	0.0230	16.9597	0.0243	16.7151	0.0647	89.9	0.267	3	0.88
172	201.6163999	-38.4284597	18.0845	0.0486	17.9066	0.0661	17.6758	0.1805	85.5	0.248	0	0.23
173	201.5361328	-38.4288243	17.3606	0.0193	16.8121	0.0183	16.6371	0.0516	-86.5	0.211	0	0.88
176	201.5035969	-38.4308472	18.2094	0.0492	17.8628	0.0573	17.3302	0.1183	68.7	0.215	0	0.59
177	201.5169486	-38.4309040	18.4761	0.0528	18.0546	0.0574	18.3605	0.2558	52.5	0.412	0	0.41
178	201.5275869	-38.4314116	18.7136	0.0552	18.1805	0.0540	17.9928	0.1527	-89.7	0.189	0	0.49
180	201.5025831	-38.4326114	17.7244	0.0298	17.2138	0.0296	17.1355	0.0921	-82.1	0.223	0	0.79
181	201.6112892	-38.4328082	17.7650	0.0431	17.2171	0.0418	16.5070	0.0733	-66.1	0.217	0	0.26
182	201.5355986	-38.4342716	14.9260	0.0044	14.3043	0.0038	14.1348	0.0103	-75.4	0.450	2	0.14
186	201.5467696	-38.4330662	18.7214	0.0365	18.1329	0.0335	17.9618	0.0944	-80.0	0.203	0	0.49
190	201.4939937	-38.4355011	18.6632	0.0622	18.4407	0.0811	18.3285	0.2469	85.3	0.011	0	0.48
193	201.5894823	-38.4369452	18.1410	0.0574	17.9820	0.0797	17.8200	0.2321	70.8	0.167	0	0.34
194	201.6334742	-38.4371261	18.4370	0.0486	17.7683	0.0420	17.4530	0.1055	-89.3	0.541	24	0.39
195	201.5826201	-38.4381106	18.6495	0.0558	18.3299	0.0664	18.1346	0.1867	-83.2	0.327	0	0.49
196	201.5974868	-38.4391629	16.5962	0.0192	16.5413	0.0290	16.6175	0.1047	-67.0	0.416	0	0.01
197	201.5643803	-38.4385922	18.3113	0.0523	18.1846	0.0744	17.2951	0.1109	86.5	0.277	0	0.49
198	201.5786183	-38.4388451	18.2642	0.0426	17.4403	0.0320	16.7750	0.0581	89.1	0.182	0	0.60
199	201.5951505	-38.4389640	18.4336	0.0616	17.8313	0.0569	17.3343	0.1215	-64.1	0.114	0	0.53
200	201.5338491	-38.4392923	17.2800	0.0298	16.8855	0.0332	16.7724	0.1006	-79.0	0.167	1	0.81
201	201.5315221	-38.4403798	17.5491	0.0418	17.1199	0.0452	16.9834	0.1347	-67.0	0.149	1	0.43
202	201.5700757	-38.4401843	18.2992	0.0577	17.9055	0.0645	18.1959	0.2844	-46.5	0.084	0	0.49
205	201.5059637	-38.4429563	18.0288	0.0539	17.6633	0.0618	17.3137	0.1515	88.4	0.198	0	0.43
206	201.5603906	-38.4436833	18.0229	0.0407	17.5119	0.0407	17.3969	0.1229	-86.5	0.189	0	0.73
207	201.4828317	-38.4436433	17.7602	0.0449	17.0429	0.0373	16.3327	0.0655	-82.2	0.181	0	0.34
209	201.4993015	-38.4440124	18.0881	0.0328	17.5212	0.0309	17.5402	0.1049	86.1	0.202	0	0.65
213	201.6332223	-38.4451496	17.7893	0.0275	17.1392	0.0240	17.1175	0.0781	-78.7	0.614	24	0.34
214	201.5809474	-38.4457809	18.0061	0.0304	17.5108	0.0305	17.0967	0.0695	81.0	0.107	0	0.65
215	201.5546204	-38.4458975	18.4590	0.0541	18.2361	0.0705	17.7169	0.1475	-81.1	0.228	0	0.64
216	201.5308828	-38.4461164	18.3036	0.0560	17.6663	0.0501	17.1311	0.1033	-77.4	0.157	0	0.60
217	201.5881418	-38.4467122	17.6095	0.0375	16.9470	0.0327	16.6850	0.0865	-72.4	0.160	0	0.84
218	201.5186355	-38.4475769	18.9703	0.0695	18.3517	0.0631	18.1405	0.1749	-46.5	0.147	0	0.47
219	201.5916180	-38.4486535	18.3461	0.0573	17.9749	0.0653	17.7712	0.1827	-75.0	0.091	0	0.60
220	201.5606582	-38.4486627	18.7907	0.0654	18.5439	0.0834	18.0473	0.1784	87.5	0.028	0	0.46
225	201.4867522	-38.4509116	15.9743	0.0118	15.3380	0.0104	14.8296	0.0218	-73.5	0.119	0	0.07
227	201.5299051	-38.4511849	18.3594	0.0614	18.3816	0.1005	18.6347	0.4294	84.8	0.217	0	0.49
229	201.6155088	-38.4526627	16.9024	0.0217	16.6490	0.0273	16.8248	0.1078	-85.2	0.145	0	0.85
231	201.5300197	-38.4540070	18.9891	0.0839	18.2807	0.0704	18.3576	0.2546	-65.5	0.197	0	0.44
232	201.6126501	-38.4545550	18.5847	0.0704	18.4105	0.0963	17.8838	0.2007	76.2	0.184	0	0.49
233	201.4829083	-38.4551410	17.5202	0.0386	16.9767	0.0376	16.5105	0.0826	-88.8	0.173	0	0.02
236	201.5216732	-38.4561320	17.4157	0.0227	16.7628	0.0198	16.6454	0.0589	23.1	0.152	0	0.60
237	201.5858770	-38.4559855	18.8028	0.0481	18.1181	0.0409	18.1158	0.1359	79.5	0.265	0	0.49
238	201.6145485	-38.4566398	18.1652	0.0466	18.0030	0.0641	17.7347	0.1689	81.5	0.144	0	0.71
239	201.5783487	-38.4568220	18.2904	0.0346	17.6111	0.0295	17.4468	0.0841	-86.4	0.236	0	0.60
243	201.5485518	-38.4579948	17.4746	0.0250	17.0046	0.0258	16.9321	0.0805	-88.6	0.172	0	0.89
244	201.5833673	-38.4579352	17.9218	0.0286	17.2427	0.0243	16.9806	0.0635	86.2	0.175	0	0.66
245	201.5539241	-38.4586427	18.0717	0.0615	17.3825	0.0526	16.9491	0.1192	-32.6	0.364	0	0.01
246	201.4912613	-38.4591104	18.0602	0.0527	17.9301	0.0749	17.5386	0.1767	88.0	0.173	0	0.53
248	201.5579898	-38.4607118	18.2520	0.0598	18.2232	0.0934	18.6202	0.4553	-82.0	0.261	0	0.38

Figure A.126: Catalogue for B Field p1p0 (cont.)

249	201.6310239	-38.4612625	17.3780	0.0336	16.8004	0.0317	17.3621	0.1786	-74.0	0.228	0	0.62
251	201.4816983	-38.4616303	18.1341	0.0519	18.0171	0.0746	18.1258	0.2787	-81.8	0.269	0	0.52
252	201.6289616	-38.4618556	18.9574	0.0729	18.7019	0.0922	17.8585	0.1434	-72.9	0.007	0	0.35
253	201.5314999	-38.4621759	18.1472	0.0343	17.5060	0.0303	17.3087	0.0841	81.2	0.114	0	0.65
254	201.5692691	-38.4640355	17.7091	0.0379	17.4607	0.0482	16.9642	0.1030	-86.1	0.240	0	0.66
256	201.6289194	-38.4644115	16.8240	0.0245	16.2294	0.0227	16.0994	0.0677	-10.7	0.067	0	0.60
258	201.4837453	-38.4644066	17.7513	0.0372	17.3950	0.0429	17.7102	0.1929	-86.1	0.175	0	0.80
259	201.5031517	-38.4650462	15.2819	0.0050	14.7040	0.0045	14.4815	0.0116	-63.9	0.188	2	0.47
262	201.4815433	-38.4652994	18.4944	0.0638	18.2221	0.0796	17.7956	0.1817	-80.1	0.199	0	0.49
263	201.5265861	-38.4655437	18.5870	0.0375	17.9493	0.0330	17.7164	0.0884	86.6	0.369	0	0.48
264	201.5720481	-38.4667192	17.5509	0.0334	17.5155	0.0515	17.1565	0.1248	-84.7	0.223	0	0.89
265	201.5072737	-38.4677196	17.9754	0.0376	17.6082	0.0427	17.4485	0.1239	-86.4	0.214	0	0.56
268	201.5333120	-38.4686842	18.1049	0.0318	17.5889	0.0313	17.1581	0.0702	-81.8	0.214	0	0.56
269	201.5773836	-38.4689367	18.0973	0.0496	17.7263	0.0566	17.5190	0.1577	81.1	0.087	0	0.50
270	201.5041942	-38.4692345	18.0944	0.0366	17.5458	0.0352	17.5651	0.1199	-88.8	0.385	0	0.33
271	201.6169114	-38.4694301	18.2213	0.0495	18.2132	0.0785	18.4397	0.3267	-78.8	0.233	0	0.61
273	201.5313318	-38.4705710	18.8146	0.0641	18.2771	0.0626	18.2432	0.2042	76.8	0.129	0	0.47
276	201.5955380	-38.4720082	16.7084	0.0254	16.1302	0.0240	15.6006	0.0496	-40.0	0.331	0	0.02
277	201.6063519	-38.4714814	18.6389	0.0515	18.0314	0.0471	17.6951	0.1159	-83.2	0.326	0	0.48
279	201.4806549	-38.4716070	18.8757	0.0747	18.2892	0.0700	17.9622	0.1748	-71.2	0.191	0	0.49
280	201.5057220	-38.4729050	17.1718	0.0253	16.5775	0.0234	16.3825	0.0655	-85.7	0.478	0	0.62
282	201.4807789	-38.4735990	18.6967	0.0709	18.2648	0.0766	17.3583	0.1124	-88.8	0.149	0	0.49
283	201.5637633	-38.4742914	17.7073	0.0419	16.9237	0.0328	16.0583	0.0498	57.0	0.066	0	0.57
285	201.6253549	-38.3645857	17.5215	0.0238	17.0715	0.0248	17.1092	0.0856	-77.6	0.343	16	0.37
287	201.5893932	-38.4765611	18.5014	0.0626	18.1078	0.0700	17.5946	0.1474	-88.4	0.279	0	0.62
290	201.4789245	-38.4768883	18.8817	0.0739	18.9475	0.1257	19.0014	0.4469	-78.0	0.310	0	0.48
291	201.5256999	-38.4771495	18.8458	0.0525	17.9529	0.0371	17.8297	0.1102	47.4	0.141	0	0.46
292	201.5655567	-38.4777284	17.5767	0.0262	17.2818	0.0316	17.2818	0.1056	-82.8	0.165	0	0.87
293	201.5819840	-38.4781880	17.9273	0.0303	17.5277	0.0331	17.4967	0.1076	-84.3	0.211	0	0.73
296	201.6198455	-38.4788403	18.8402	0.0759	17.8031	0.0472	17.0640	0.0804	89.9	0.188	0	0.39
300	201.5910331	-38.3644247	18.3677	0.0517	18.0153	0.0598	18.4075	0.2892	-71.3	0.209	16	0.50
301	201.6328958	-38.4810313	18.8100	0.0528	17.9852	0.0397	17.7736	0.1090	62.8	0.070	16	0.50
302	201.6148606	-38.4821059	17.2968	0.0336	17.0551	0.0431	16.9047	0.1267	-44.1	0.099	3	0.54
303	201.6167289	-38.4828429	17.0960	0.0238	16.8513	0.0301	17.0101	0.1172	-72.5	0.130	3	0.86
304	201.5173880	-38.4822140	17.6485	0.0252	17.0958	0.0240	16.9113	0.0674	-86.3	0.179	0	0.88
306	201.6283512	-38.3647538	17.7881	0.0281	17.4512	0.0326	17.4755	0.1113	88.6	0.143	16	0.59
307	201.6289863	-38.4838117	19.0723	0.0890	18.7600	0.1072	17.8715	0.1602	60.8	0.203	0	0.48
308	201.5829795	-38.3645235	18.5867	0.0622	18.1846	0.0689	17.3553	0.1084	90.0	0.162	16	0.49
309	201.5254679	-38.3647165	18.2986	0.0402	18.6642	0.0889	18.3052	0.2157	-82.3	0.175	16	0.37
310	201.5794867	-38.3650254	17.8948	0.0293	17.7380	0.0399	17.6007	0.1178	-84.1	0.226	16	0.76
311	201.5394251	-38.3648742	18.3951	0.0555	18.4257	0.0913	18.3516	0.2883	-70.3	0.365	19	0.46
312	201.5392784	-38.3667068	17.3357	0.0338	16.8454	0.0345	16.4543	0.0811	60.4	0.533	2	0.55
314	201.5923855	-38.3665238	17.2871	0.0345	16.6850	0.0318	16.1124	0.0634	-70.9	0.208	0	0.14
320	201.5249796	-38.3708179	18.3179	0.0512	17.8362	0.0527	17.0185	0.0838	-87.8	0.391	0	0.55
321	201.5330490	-38.3705884	18.9572	0.0889	18.5436	0.0978	19.2973	0.6616	80.5	0.238	0	0.49
322	201.5193330	-38.3709847	18.2584	0.0528	17.9409	0.0631	17.2432	0.1122	73.7	0.149	0	0.50
323	201.5980633	-38.3712773	18.5822	0.0620	18.4858	0.0908	18.8746	0.4390	-89.3	0.216	0	0.49

Figure A.127: Catalogue for B Field p1p0 (cont.)

2	201.3834998	-38.4804053	16.5445	0.0216	16.1390	0.0245	15.9900	0.0671	81.1	0.734	1	0.00
3	201.4631652	-38.4859099	17.1395	0.0183	16.4493	0.0158	16.1438	0.0367	84.4	0.223	0	0.34
4	201.3686502	-38.4857437	17.1923	0.0228	16.5873	0.0214	16.7096	0.0746	88.5	0.222	0	0.88
5	201.3910252	-38.4865231	16.8348	0.0278	16.4681	0.0328	15.9925	0.0666	32.8	0.226	0	0.00
7	201.4852792	-38.4868111	17.6127	0.0268	17.5225	0.0399	17.3148	0.1033	86.1	0.199	0	0.53
8	201.4739443	-38.4885956	17.0055	0.0241	16.6262	0.0279	16.6605	0.0902	88.4	0.414	16	0.15
9	201.3916210	-38.4892547	17.3775	0.0304	17.2292	0.0436	16.8430	0.0960	79.8	0.655	16	0.00
10	201.4340899	-38.4896579	17.3388	0.0251	17.0741	0.0321	16.9563	0.0902	66.4	0.065	24	0.53
11	201.3969956	-38.4896511	18.0558	0.0335	17.6360	0.0372	17.6778	0.1205	-85.3	0.120	24	0.38
12	201.4079431	-38.4899137	17.8919	0.0319	17.5512	0.0380	17.2501	0.0900	1.4	0.320	24	0.56
13	201.3270278	-38.4897686	19.0816	0.0572	18.4122	0.0507	18.3001	0.1426	-42.9	0.208	24	0.38
15	201.3712291	-38.3615619	17.7364	0.0317	17.3216	0.0355	16.7969	0.0686	35.3	0.136	24	0.64
16	201.3753901	-38.3612597	18.4752	0.0363	18.2791	0.0490	17.9868	0.1168	-1.1	0.281	24	0.48
18	201.3931937	-38.3621545	18.1785	0.0403	19.1228	0.1560	24.2303	54.2985	72.8	0.428	16	0.36
19	201.4756834	-38.3701736	17.2503	0.0338	17.1961	0.0529	16.8671	0.1232	-79.7	0.388	0	0.01
23	201.4705032	-38.3734617	16.6457	0.0146	16.1819	0.0154	16.1900	0.0481	-66.0	0.449	0	0.51
26	201.4410259	-38.3741447	16.8960	0.0196	15.9619	0.0137	15.1951	0.0211	-31.3	0.040	0	0.06
29	201.4802190	-38.3747057	18.2994	0.0501	17.5486	0.0415	16.8073	0.0658	-74.8	0.299	0	0.50
30	201.4071221	-38.3748501	17.6574	0.0330	16.9552	0.0285	16.6718	0.0687	-46.5	0.105	0	0.12
31	201.4192743	-38.3752934	17.3443	0.0367	17.0210	0.0450	16.5266	0.0898	-48.9	0.101	0	0.15
32	201.4652440	-38.3755534	17.3137	0.0201	16.8134	0.0205	16.5552	0.0502	-81.2	0.136	0	0.53
33	201.3746608	-38.3751048	18.3216	0.0608	18.0474	0.0781	18.1005	0.2583	-80.3	0.090	0	0.57
34	201.4448311	-38.3757450	17.2267	0.0245	16.5482	0.0216	16.3915	0.0582	-88.3	0.210	2	0.79
35	201.4447078	-38.3773251	18.2723	0.0418	17.7027	0.0406	17.3535	0.0921	89.4	0.319	3	0.39
37	201.3975179	-38.3783137	16.6163	0.0223	15.9469	0.0199	15.6280	0.0466	47.5	0.485	3	0.14
38	201.3952783	-38.3781494	16.6879	0.0211	16.2725	0.0237	16.3285	0.0780	76.7	0.024	3	0.74
39	201.4134752	-38.3788617	17.0986	0.0238	16.5396	0.0234	16.4860	0.0694	86.1	0.150	0	0.79
40	201.4503378	-38.3793338	18.4763	0.0468	17.8565	0.0435	17.8181	0.1312	-77.8	0.176	0	0.49
41	201.3937862	-38.3805997	16.1006	0.0126	15.8364	0.0160	15.8575	0.0508	-84.7	0.094	0	0.81
42	201.4543461	-38.3801064	18.0061	0.0457	17.5142	0.0480	17.5802	0.1602	-85.3	0.416	0	0.42
43	201.4220270	-38.3802187	18.1258	0.0393	17.5364	0.0376	17.7507	0.1429	83.2	0.176	0	0.68
44	201.4120402	-38.3806905	17.5712	0.0370	16.7505	0.0288	15.9708	0.0441	-82.0	0.124	0	0.06
45	201.4420051	-38.3821136	18.4624	0.0507	17.8183	0.0462	16.9210	0.0635	-74.4	0.118	0	0.45
46	201.4229824	-38.3838845	17.2657	0.0302	16.5558	0.0260	15.8309	0.0418	-61.0	0.220	0	0.11
47	201.3219552	-38.3837192	17.1930	0.0299	17.0784	0.0442	16.8772	0.1157	-75.6	0.210	0	0.69
48	201.4257236	-38.3839963	17.9930	0.0384	17.5816	0.0432	17.3032	0.1048	84.1	0.130	0	0.65
49	201.4435610	-38.3846565	17.6170	0.0279	16.9719	0.0253	16.5160	0.0518	-76.2	0.157	0	0.26
50	201.4568005	-38.3845283	18.0001	0.0504	17.3934	0.0477	16.6464	0.0755	49.0	0.179	0	0.18
51	201.4553049	-38.3846311	17.9501	0.0374	17.5978	0.0444	17.3534	0.1111	14.6	0.219	0	0.48
52	201.3550048	-38.3848772	18.1567	0.0511	17.6134	0.0512	17.7621	0.1844	89.2	0.179	0	0.30
53	201.4167560	-38.3849651	18.4494	0.0534	17.7007	0.0443	17.5777	0.1240	81.2	0.160	0	0.58
54	201.4875726	-38.3859263	17.1663	0.0227	16.9484	0.0302	16.7778	0.0809	87.1	0.560	24	0.64
55	201.3382239	-38.3851430	17.9253	0.0509	17.4010	0.0520	18.0037	0.2848	-88.4	0.103	0	0.09
56	201.3844927	-38.3857093	17.4370	0.0315	16.7945	0.0288	16.7800	0.0889	-79.2	0.136	0	0.70
57	201.3875143	-38.3857466	18.7180	0.0642	17.9538	0.0526	17.8940	0.1561	80.1	0.246	0	0.49
58	201.4619859	-38.3864324	17.5077	0.0299	17.0796	0.0331	16.8256	0.0821	-87.5	0.178	0	0.72
59	201.3587198	-38.3862927	18.4983	0.0590	17.7499	0.0490	17.7722	0.1569	89.9	0.120	0	0.49
61	201.3731481	-38.3872801	16.5028	0.0197	16.2958	0.0267	16.2988	0.0841	79.3	0.192	0	0.42
62	201.4527669	-38.3884604	16.2291	0.0108	15.6626	0.0103	15.4073	0.0250	-79.2	0.205	0	0.85

Figure A.128: Catalogue for B Field p0p0

64	201.3624799	-38.3888925	17.7762	0.0339	17.1799	0.0322	17.0173	0.0866	-89.3	0.181	0	0.41
65	201.4615518	-38.3890885	18.1555	0.0425	17.3750	0.0342	17.1597	0.0878	-89.6	0.118	0	0.65
66	201.3219115	-38.3891220	18.3201	0.0529	17.5128	0.0417	16.6488	0.0591	76.9	0.364	0	0.46
67	201.3850212	-38.3896010	18.3059	0.0446	17.5827	0.0378	17.2765	0.0892	86.9	0.191	0	0.63
68	201.3974830	-38.3898838	18.1679	0.0470	17.7950	0.0550	17.2514	0.1048	-54.9	0.139	0	0.50
70	201.3911997	-38.3926308	14.9029	0.0046	14.5569	0.0052	14.4509	0.0142	67.8	0.257	0	0.89
72	201.4334128	-38.3912361	18.3454	0.0476	18.0030	0.0572	17.9967	0.1783	-45.0	0.251	0	0.48
73	201.4112211	-38.3915571	18.0241	0.0447	17.4426	0.0432	17.3937	0.1295	-83.5	0.149	0	0.42
74	201.3753704	-38.3923294	16.2054	0.0103	15.8501	0.0119	15.8007	0.0349	86.9	0.231	0	0.84
76	201.3706539	-38.3930282	17.0179	0.0277	16.6061	0.0313	16.1601	0.0652	-86.0	0.089	0	0.40
77	201.3824868	-38.3935167	18.1940	0.0358	17.6030	0.0340	17.1891	0.0724	-83.7	0.220	0	0.62
78	201.4005847	-38.3942473	17.4076	0.0212	16.6282	0.0169	16.4395	0.0437	89.1	0.159	0	0.88
81	201.4867810	-38.3955910	17.9145	0.0418	17.7411	0.0586	16.3931	0.0534	-35.6	0.032	16	0.54
85	201.3637109	-38.3977134	17.2828	0.0197	16.9108	0.0225	16.8363	0.0653	-84.8	0.129	0	0.88
86	201.3290822	-38.3984104	18.1307	0.0429	17.6829	0.0468	17.4112	0.1143	85.5	0.213	0	0.52
87	201.4746830	-38.4002751	15.9822	0.0196	15.6170	0.0231	15.4503	0.0624	-80.4	0.587	2	0.00
88	201.4763980	-38.4007273	17.7984	0.0448	17.0391	0.0369	16.8317	0.0958	-22.5	0.106	3	0.13
90	201.4210331	-38.3987609	18.3727	0.0592	17.5111	0.0445	16.8489	0.0759	75.0	0.242	0	0.49
91	201.4425764	-38.3992668	17.6569	0.0272	17.2242	0.0298	17.2175	0.0922	-84.4	0.188	0	0.68
92	201.4258312	-38.3991361	17.9962	0.0420	17.3754	0.0391	17.2343	0.1077	-86.4	0.250	0	0.18
93	201.3417880	-38.3996969	17.5567	0.0368	16.9876	0.0360	16.8666	0.1012	66.4	0.232	0	0.17
94	201.3546126	-38.3999979	18.3417	0.0480	17.8851	0.0519	18.0728	0.1933	-74.8	0.092	0	0.60
96	201.3301070	-38.4007460	18.3380	0.0537	18.0561	0.0683	17.8107	0.1714	74.9	0.169	0	0.63
97	201.4397087	-38.4025822	16.2010	0.0128	15.5468	0.0115	15.3076	0.0285	89.4	0.554	0	0.01
98	201.4071941	-38.4019996	18.0261	0.0370	17.4599	0.0361	17.1101	0.0819	-68.9	0.044	0	0.61
99	201.4159155	-38.4029158	16.6626	0.0155	16.0734	0.0146	15.7822	0.0347	-58.2	0.224	0	0.35
100	201.3926315	-38.4029100	16.9759	0.0275	16.9682	0.0448	16.6845	0.1087	87.5	0.548	0	0.00
101	201.3687415	-38.4025673	18.4937	0.0448	17.7261	0.0364	17.5457	0.0961	87.7	0.137	0	0.52
102	201.4841824	-38.4031386	18.0327	0.0311	17.4256	0.0291	17.1631	0.0709	-75.3	0.030	0	0.39
103	201.3304302	-38.4030045	18.4905	0.0578	17.8211	0.0516	17.6643	0.1402	65.1	0.358	0	0.47
104	201.3433170	-38.4033329	18.1511	0.0432	17.4982	0.0391	17.5515	0.1284	-82.9	0.180	0	0.62
105	201.3715880	-38.4035461	17.8777	0.0466	17.3445	0.0472	16.7727	0.0878	-79.0	0.505	0	0.51
106	201.3327712	-38.4039694	18.2303	0.0475	17.7166	0.0489	17.7459	0.1574	89.8	0.250	0	0.60
107	201.3916644	-38.4068679	15.5068	0.0096	15.0175	0.0099	14.8974	0.0277	88.4	0.346	0	0.04
108	201.3683962	-38.4056470	18.1835	0.0448	17.6991	0.0472	17.3807	0.1105	82.8	0.180	0	0.54
109	201.4052636	-38.4067644	18.0673	0.0409	17.4829	0.0393	17.2228	0.0969	-78.3	0.264	0	0.60
111	201.4419635	-38.4083168	18.0045	0.0333	17.2438	0.0272	17.2938	0.0883	-82.5	0.131	0	0.71
113	201.4815718	-38.4102190	17.6357	0.0240	17.1390	0.0247	17.2622	0.0856	88.3	0.101	0	0.83
114	201.3785469	-38.4108522	17.6825	0.0311	16.8811	0.0245	16.1174	0.0380	81.6	0.185	0	0.05
115	201.4275094	-38.4115174	17.0107	0.0163	16.5599	0.0174	16.4514	0.0485	-87.4	0.180	0	0.88
117	201.4425814	-38.4123549	17.5860	0.0338	17.2289	0.0400	17.3356	0.1383	88.5	0.213	0	0.23
118	201.3303046	-38.4147596	13.3422	0.0017	12.5767	0.0013	11.9266	0.0020	-17.0	0.111	0	0.03
119	201.3860890	-38.4122937	18.6255	0.0499	18.2606	0.0585	18.1257	0.1619	89.3	0.201	0	0.45
122	201.3455283	-38.4137672	17.5861	0.0309	17.0209	0.0302	16.4905	0.0581	80.5	0.203	0	0.43
124	201.4427293	-38.4142602	17.9483	0.0391	17.4370	0.0402	17.5082	0.1343	83.9	0.236	0	0.47
126	201.4346057	-38.4175702	16.3312	0.0164	15.6701	0.0146	15.3068	0.0327	-87.1	0.516	0	0.03
127	201.3527766	-38.4159618	18.3998	0.0578	17.7849	0.0543	17.6601	0.1520	88.7	0.208	0	0.49
128	201.4184444	-38.4170320	17.4156	0.0357	16.9387	0.0380	16.6061	0.0881	49.5	0.219	0	0.15
129	201.4866259	-38.4169043	18.5349	0.0458	18.2621	0.0582	17.7265	0.1115	-82.9	0.222	0	0.50

Figure A.129: Catalogue for B Field p0p0 (cont.)

131	201.3682597	-38.4177264	17.3052	0.0214	16.5633	0.0176	16.3977	0.0468	-86.8	0.132	0	0.85
134	201.4063954	-38.4204708	17.3349	0.0246	16.5097	0.0189	15.7902	0.0304	86.3	0.192	3	0.09
137	201.4380137	-38.4197551	18.5785	0.0547	17.7760	0.0432	17.5035	0.1052	-63.8	0.117	0	0.49
138	201.4839909	-38.4198983	18.4449	0.0557	17.4499	0.0370	16.6689	0.0565	19.9	0.183	0	0.49
139	201.4435661	-38.4202217	17.8930	0.0429	16.8054	0.0262	16.1182	0.0436	-61.2	0.127	0	0.57
140	201.3560217	-38.4205852	18.1966	0.0520	17.4980	0.0453	17.5052	0.1430	-79.7	0.208	1	0.58
141	201.4773458	-38.4211146	17.7451	0.0491	17.0139	0.0415	15.9352	0.0485	-77.6	0.189	0	0.00
142	201.4586115	-38.4212290	18.1291	0.0496	17.4209	0.0428	17.1920	0.1088	-81.9	0.222	0	0.54
145	201.3806518	-38.4227053	17.7582	0.0252	16.9317	0.0193	16.7821	0.0518	-84.0	0.186	0	0.78
146	201.4595471	-38.4227198	18.3251	0.0522	17.7204	0.0494	17.4758	0.1239	89.0	0.216	0	0.53
147	201.3287502	-38.4231571	17.6956	0.0314	17.3408	0.0371	17.3049	0.1123	86.4	0.197	0	0.27
148	201.3619375	-38.4239509	17.6343	0.0273	17.0331	0.0257	16.6426	0.0559	84.9	0.219	0	0.61
151	201.4011931	-38.4255542	16.3914	0.0180	15.7166	0.0159	15.5091	0.0410	15.0	0.260	0	0.25
152	201.3577143	-38.4265387	17.8983	0.0290	17.2912	0.0271	16.9950	0.0640	81.2	0.208	0	0.66
153	201.3671412	-38.4268416	17.6160	0.0240	16.9146	0.0206	16.8004	0.0572	-87.5	0.144	0	0.83
154	201.4426509	-38.4272548	17.5164	0.0345	17.0450	0.0369	17.0046	0.1115	-89.7	0.209	0	0.60
155	201.4843510	-38.4276096	17.4297	0.0213	17.1394	0.0262	16.8503	0.0626	85.1	0.194	0	0.53
160	201.4672335	-38.4355647	16.3024	0.0121	15.9277	0.0138	15.7147	0.0351	85.9	0.251	3	0.83
161	201.4094268	-38.4321875	18.3647	0.0468	17.8688	0.0488	18.0309	0.1774	-74.2	0.138	0	0.49
162	201.4027528	-38.4323503	18.2362	0.0429	17.5137	0.0364	16.6874	0.0533	-77.4	0.303	0	0.51
163	201.3627614	-38.4329014	18.1001	0.0346	17.6746	0.0382	17.4525	0.0973	83.9	0.240	0	0.53
164	201.3735389	-38.4335730	18.2210	0.0498	17.7790	0.0547	18.3520	0.2908	66.3	0.120	0	0.53
166	201.4747409	-38.4358066	16.8200	0.0252	16.5865	0.0334	16.3858	0.0874	89.5	0.543	0	0.00
167	201.4445194	-38.4353966	17.9670	0.0384	17.1653	0.0303	16.9916	0.0807	80.6	0.145	0	0.69
168	201.4298966	-38.4364027	17.7606	0.0381	17.2351	0.0387	17.1662	0.1140	71.9	0.139	0	0.54
169	201.4252671	-38.4368978	17.0665	0.0231	16.4767	0.0220	16.2918	0.0579	-86.9	0.373	0	0.04
170	201.4811102	-38.4370557	16.6251	0.0124	16.2002	0.0134	16.2335	0.0424	-89.3	0.119	0	0.79
171	201.3728664	-38.4364145	17.6023	0.0438	16.9892	0.0413	16.2598	0.0664	-48.2	0.136	0	0.06
172	201.3774224	-38.4366165	17.7424	0.0378	16.8601	0.0278	16.1624	0.0458	-73.6	0.147	0	0.27
175	201.3522948	-38.4393188	16.6486	0.0160	16.0444	0.0150	15.9085	0.0411	-70.8	0.156	3	0.25
176	201.3954983	-38.4381201	16.4489	0.0143	15.7727	0.0126	15.6648	0.0352	81.7	0.410	0	0.37
177	201.3749074	-38.4383569	16.8322	0.0212	16.4574	0.0246	16.1196	0.0565	83.7	0.154	0	0.55
179	201.4689372	-38.4387743	17.8241	0.0372	17.0612	0.0305	16.9671	0.0873	-83.1	0.175	0	0.35
181	201.3580456	-38.4386446	18.7856	0.0584	18.0053	0.0470	18.0085	0.1473	89.5	0.207	0	0.48
183	201.4302401	-38.4408862	16.4179	0.0176	16.0729	0.0209	15.9124	0.0566	-46.1	0.384	0	0.17
184	201.3996520	-38.4411150	17.5555	0.0238	17.1484	0.0265	17.2681	0.0919	-83.9	0.112	0	0.82
186	201.3670157	-38.4432751	17.0983	0.0214	16.4240	0.0189	16.4048	0.0576	-80.6	0.242	0	0.66
187	201.3820888	-38.4430895	17.4049	0.0218	16.9167	0.0225	16.6592	0.0552	-64.2	0.216	0	0.06
188	201.4828707	-38.4435511	18.3283	0.0529	17.2542	0.0327	16.4481	0.0488	50.6	0.125	0	0.51
189	201.4114298	-38.4460632	16.7730	0.0172	16.2207	0.0169	16.1272	0.0481	-87.4	0.110	3	0.78
191	201.4285229	-38.4456347	18.6324	0.0539	18.2371	0.0616	17.9794	0.1525	-75.2	0.291	0	0.44
193	201.4566318	-38.4465320	18.1361	0.0502	17.6225	0.0517	16.8630	0.0808	-75.1	0.271	0	0.49
194	201.3727749	-38.4466123	18.4677	0.0646	17.8402	0.0601	17.8921	0.1982	70.5	0.244	0	0.49
196	201.4575345	-38.4485118	17.5857	0.0326	17.0601	0.0331	16.8204	0.0832	-84.9	0.214	0	0.26
198	201.4245301	-38.4507275	17.3971	0.0221	17.0093	0.0251	17.1618	0.0898	82.0	0.258	3	0.37
199	201.4079277	-38.4493894	17.5671	0.0306	17.0690	0.0318	16.7560	0.0746	87.5	0.106	1	0.41
202	201.4500392	-38.4499199	17.5038	0.0225	17.0631	0.0243	17.0714	0.0758	86.5	0.220	0	0.76
203	201.4867675	-38.4507750	16.2403	0.0100	15.6360	0.0092	14.8973	0.0143	-79.1	0.082	24	0.05
204	201.3791180	-38.4504367	17.6650	0.0364	16.8803	0.0292	16.6673	0.0752	-49.1	0.271	0	0.00

Figure A.130: Catalogue for B Field p0p0 (cont.)

205	201.4091709	-38.4507441	17.7030	0.0394	17.2985	0.0448	17.0526	0.1123	81.7	0.201	3	0.53
206	201.4080158	-38.4516521	17.4113	0.0326	16.7507	0.0293	16.5162	0.0741	71.8	0.258	3	0.55
207	201.4715648	-38.4512719	18.3890	0.0394	17.6367	0.0324	17.4867	0.0877	-89.5	0.325	0	0.22
208	201.3920829	-38.4520466	17.0930	0.0250	17.2314	0.0465	16.9399	0.1118	-83.2	0.767	0	0.39
210	201.3578715	-38.4523009	17.4137	0.0235	16.7738	0.0213	16.5001	0.0514	-87.6	0.277	3	0.85
211	201.3577343	-38.4540378	17.2378	0.0201	16.7503	0.0209	16.6665	0.0599	89.6	0.272	3	0.82
213	201.4654437	-38.4535177	18.5261	0.0498	18.1908	0.0601	18.2034	0.1906	84.4	0.035	0	0.48
214	201.4431358	-38.4541670	18.0079	0.0285	17.2899	0.0240	17.0040	0.0570	-87.5	0.209	0	0.60
215	201.3775912	-38.4539545	18.3654	0.0495	17.8769	0.0520	17.7440	0.1444	75.2	0.159	0	0.63
216	201.4536101	-38.4545988	17.6823	0.0353	17.3888	0.0443	17.2826	0.1263	87.6	0.351	0	0.26
218	201.3475603	-38.4557788	16.3458	0.0147	15.7798	0.0142	15.5979	0.0375	85.0	0.186	3	0.46
219	201.4829278	-38.4549989	17.9379	0.0422	17.0106	0.0298	16.3116	0.0491	90.0	0.140	0	0.15
220	201.3513616	-38.4556472	16.1148	0.0188	15.5195	0.0180	15.1359	0.0396	70.4	0.156	0	0.00
221	201.4236834	-38.4557699	17.3413	0.0210	16.7791	0.0204	16.5440	0.0509	86.0	0.172	0	0.55
222	201.4372822	-38.4562627	17.6844	0.0304	17.1685	0.0310	17.1990	0.0997	-88.9	0.169	0	0.77
224	201.3682966	-38.4572585	17.4857	0.0310	17.0201	0.0332	17.0184	0.1037	80.8	0.191	0	0.68
228	201.3202161	-38.4582595	18.2230	0.0391	17.9997	0.0520	17.8106	0.1369	-82.2	0.260	0	0.63
229	201.3294671	-38.4589772	16.8410	0.0149	16.1873	0.0132	15.8359	0.0295	86.8	0.153	0	0.50
230	201.4482064	-38.4591937	17.0825	0.0177	16.2350	0.0133	15.4761	0.0205	-81.1	0.096	0	0.26
231	201.4743386	-38.4588574	17.6530	0.0319	17.5696	0.0483	18.1135	0.2503	84.0	0.526	0	0.40
233	201.4257007	-38.4593177	18.6138	0.0562	18.1151	0.0585	18.4367	0.2465	44.3	0.147	0	0.49
234	201.4616556	-38.4602785	17.3548	0.0319	17.0058	0.0381	16.9880	0.1176	-83.8	0.172	0	0.21
235	201.4743296	-38.4609812	17.6331	0.0301	17.6312	0.0490	17.7001	0.1639	-84.0	0.590	0	0.36
236	201.4357052	-38.4617550	17.8159	0.0300	17.3276	0.0313	17.0843	0.0780	87.9	0.180	0	0.71
239	201.3439732	-38.4623995	18.5600	0.0540	17.8445	0.0462	17.7775	0.1359	74.0	0.119	0	0.48
240	201.3973795	-38.4634071	17.5918	0.0378	17.2621	0.0461	17.6908	0.2149	-88.1	0.201	0	0.39
241	201.4570329	-38.4641442	17.6571	0.0379	17.1724	0.0400	17.2554	0.1355	84.2	0.269	0	0.15
242	201.4838784	-38.4643334	17.8848	0.0368	17.8658	0.0593	17.6019	0.1462	81.0	0.166	0	0.24
243	201.3284165	-38.4641671	18.2379	0.0549	17.4959	0.0460	16.7641	0.0737	-89.4	0.613	0	0.50
244	201.4067156	-38.4645063	18.7262	0.0657	17.9214	0.0519	17.8802	0.1567	-90.0	0.208	0	0.49
245	201.4298054	-38.4651412	16.9575	0.0171	16.3510	0.0159	16.0577	0.0377	84.0	0.198	0	0.69
246	201.3874406	-38.4652465	17.7399	0.0327	16.9502	0.0260	16.2655	0.0433	64.1	0.242	0	0.39
247	201.4155499	-38.4650810	18.6757	0.0668	17.9312	0.0558	17.4458	0.1121	-77.2	0.169	0	0.49
248	201.3541130	-38.4661666	17.4562	0.0211	16.7751	0.0183	16.5368	0.0453	-89.7	0.184	0	0.87
249	201.4019466	-38.4658890	18.4192	0.0548	18.4158	0.0899	19.0935	0.5280	45.1	0.090	0	0.49
251	201.3577974	-38.4664964	17.9907	0.0272	17.3384	0.0242	17.1437	0.0625	89.3	0.193	0	0.66
253	201.3254912	-38.4672271	17.2345	0.0192	16.4007	0.0146	16.2144	0.0378	-88.3	0.156	0	0.85
254	201.3298979	-38.4677061	17.4568	0.0270	16.7444	0.0230	16.4336	0.0540	-88.9	0.188	0	0.33
255	201.4602088	-38.4680495	17.5769	0.0372	17.0839	0.0390	16.9822	0.1115	-75.6	0.117	3	0.34
256	201.4600010	-38.4694101	16.6766	0.0258	16.0494	0.0239	15.8384	0.0618	-52.5	0.292	2	0.00
259	201.4515773	-38.4691509	18.4910	0.0526	17.5800	0.0377	17.1227	0.0773	71.0	0.291	0	0.49
260	201.4366118	-38.4703477	16.8458	0.0271	16.4135	0.0300	16.7386	0.1271	-47.6	0.425	3	0.06
263	201.3508914	-38.4703482	18.1930	0.0456	17.6647	0.0462	17.7675	0.1591	-41.8	0.184	0	0.19
264	201.4743347	-38.4710829	17.3954	0.0305	17.2915	0.0454	17.0441	0.1137	88.7	0.529	0	0.56
266	201.4341367	-38.4732064	16.9275	0.0238	16.4345	0.0248	16.1450	0.0596	-88.9	0.204	0	0.29
267	201.3384294	-38.4732110	16.7055	0.0151	16.3443	0.0175	16.0874	0.0428	82.9	0.158	0	0.83
268	201.4190853	-38.4734551	17.4091	0.0341	16.9816	0.0380	16.6971	0.0919	80.7	0.168	0	0.54
270	201.4750400	-38.4745518	15.7691	0.0090	15.2790	0.0092	15.1521	0.0252	89.2	0.158	0	0.46
271	201.3799863	-38.4741232	17.5033	0.0350	16.5785	0.0248	15.8888	0.0411	-84.7	0.122	0	0.18

Figure A.131: Catalogue for B Field p0p0 (cont.)

272	201.3259978	-38.4742916	17.2955	0.0221	16.6931	0.0207	16.7644	0.0687	-83.7	0.334	0	0.16
273	201.4312238	-38.4757154	18.2744	0.0543	17.6233	0.0493	17.7613	0.1757	89.8	0.166	0	0.58
274	201.4605649	-38.4765334	18.0253	0.0436	17.3731	0.0395	17.2921	0.1150	43.8	0.180	0	0.00
277	201.3700801	-38.4766879	18.5337	0.0517	17.7997	0.0435	18.8811	0.3671	74.4	0.292	0	0.48
278	201.3713381	-38.4774072	17.9571	0.0420	17.5587	0.0479	18.1068	0.2491	70.1	0.188	0	0.48
281	201.4543725	-38.4782813	17.5371	0.0370	17.2667	0.0476	17.3160	0.1566	24.6	0.061	0	0.03
282	201.3263231	-38.4779279	17.8821	0.0439	17.1161	0.0359	17.0349	0.1045	-80.6	0.124	0	0.13
283	201.4360522	-38.4780788	18.5286	0.0595	17.7893	0.0499	17.6043	0.1320	-44.8	0.145	0	0.49
284	201.3800389	-38.4784672	18.3536	0.0345	17.6528	0.0296	17.7218	0.0974	88.8	0.228	0	0.63
285	201.3883440	-38.3655311	18.2254	0.0409	17.6477	0.0395	17.1490	0.0781	71.7	0.174	0	0.62
286	201.4701367	-38.4796767	17.4087	0.0259	16.7708	0.0236	16.4729	0.0559	-89.1	0.149	0	0.51
287	201.4610430	-38.4800091	16.8066	0.0172	16.4068	0.0193	16.4344	0.0615	78.5	0.087	2	0.76
288	201.4592173	-38.4802101	18.4402	0.0566	17.6135	0.0439	17.4068	0.1136	44.8	0.169	3	0.53
290	201.4264896	-38.4803012	16.9652	0.0238	15.9695	0.0157	15.2041	0.0243	88.0	0.097	2	0.12
291	201.4282533	-38.4807932	18.2182	0.0522	17.2572	0.0358	16.4401	0.0530	-21.3	0.305	3	0.35
293	201.4110751	-38.4802569	18.2763	0.0515	17.6811	0.0492	17.2775	0.1066	-90.0	0.178	0	0.37
294	201.3175464	-38.4807427	17.5805	0.0237	16.8899	0.0205	16.7773	0.0571	-88.8	0.426	24	0.89
295	201.3891649	-38.4810826	16.7274	0.0181	16.3673	0.0212	16.5647	0.0794	85.4	0.162	0	0.88
296	201.3598182	-38.4809654	17.5184	0.0219	17.1070	0.0242	16.8353	0.0585	82.7	0.221	0	0.81
297	201.3212646	-38.4809459	17.7744	0.0407	17.2787	0.0426	16.4022	0.0598	-75.5	0.173	0	0.03
298	201.3636443	-38.4814766	17.1246	0.0173	16.7367	0.0195	16.6475	0.0556	86.6	0.217	0	0.82
299	201.4027155	-38.4817208	17.2194	0.0255	17.2266	0.0419	17.1604	0.1238	-80.9	0.170	3	0.18
300	201.4040941	-38.4822721	16.7879	0.0217	16.5296	0.0280	16.5464	0.0892	-89.6	0.188	3	0.51
301	201.4715262	-38.4819325	18.8745	0.0795	18.1467	0.0675	17.8424	0.1604	-79.4	0.179	0	0.48
302	201.4786347	-38.4828343	17.1209	0.0177	16.7113	0.0195	16.8549	0.0689	81.7	0.149	0	0.83
303	201.3847503	-38.4831840	17.6670	0.0413	17.1168	0.0412	16.8277	0.0991	-79.5	0.102	0	0.02
304	201.4557162	-38.4840407	16.4488	0.0136	15.8287	0.0125	15.5163	0.0289	82.4	0.129	0	0.84
305	201.3671401	-38.3660189	18.3823	0.0365	17.8336	0.0359	17.1270	0.0585	63.8	0.158	0	0.55
307	201.4450046	-38.4862133	17.7820	0.0361	17.3179	0.0388	16.9901	0.0899	-85.3	0.163	0	0.23
309	201.3220827	-38.4860717	18.2003	0.0498	18.0172	0.0693	18.3366	0.2925	-82.9	0.227	0	0.57
310	201.4029375	-38.3664286	18.2270	0.0427	17.7003	0.0432	17.0347	0.0734	-79.4	0.193	0	0.32
311	201.4072560	-38.3673986	18.6042	0.0585	17.8334	0.0476	17.2052	0.0838	-78.6	0.188	0	0.50
312	201.4407915	-38.3677351	18.4399	0.0439	17.8313	0.0412	17.9570	0.1442	-69.0	0.185	0	0.54
315	201.3930117	-38.3690175	17.7699	0.0377	17.8353	0.0657	18.4989	0.3810	-70.9	0.400	0	0.44
316	201.4684999	-38.3691196	18.5769	0.0534	18.0112	0.0523	17.4466	0.0975	74.9	0.216	0	0.36

Figure A.132: Catalogue for B Field p0p0 (cont.)

5	201.4712867	-38.3746527	17.8319	0.0237	17.4832	0.0294	17.2497	0.0952	-80.4	0.224	3	0.89
6	201.4802657	-38.3747798	17.9568	0.0299	17.1201	0.0241	16.4097	0.0504	86.4	0.299	16	0.01
7	201.5431252	-38.3746942	18.7912	0.0382	18.1443	0.0363	18.0548	0.1334	86.7	0.058	0	0.76
8	201.5613530	-38.3751393	18.3980	0.0334	18.0474	0.0415	17.6774	0.1189	-89.3	0.101	0	0.81
12	201.5292755	-38.3761282	19.5770	0.0615	18.6799	0.0470	18.5750	0.1705	-72.7	0.124	16	0.75
13	201.5539792	-38.3763016	19.1589	0.0519	19.7713	0.1559	18.6058	0.2176	89.7	0.096	24	0.06
14	201.5998134	-38.3765214	19.3462	0.0599	19.8686	0.1666	19.5305	0.4975	5.8	0.254	24	0.80
15	201.6287024	-38.3751935	20.0120	0.1042	19.2459	0.0905	18.3763	0.1650	64.8	0.098	0	0.64
17	201.4964725	-38.3742192	19.4907	0.0561	18.8279	0.0528	19.4170	0.3629	-85.2	0.261	0	0.67
18	201.4889154	-38.3732513	18.5334	0.0321	17.8809	0.0303	17.9508	0.1284	-89.5	0.188	0	0.49
19	201.5841227	-38.3739725	19.3218	0.0560	18.4476	0.0437	17.4327	0.0691	74.2	0.177	0	0.06
20	201.6227007	-38.3730249	18.7193	0.0444	18.1604	0.0461	18.1814	0.1896	64.6	0.170	0	0.26
21	201.4975072	-38.3716624	18.5304	0.0360	17.9556	0.0367	17.4469	0.0922	-69.5	0.365	0	0.14
23	201.5545625	-38.3718759	19.1774	0.0733	18.5278	0.0708	18.4127	0.2588	-74.5	0.247	0	0.00
24	201.5275376	-38.3719067	19.5099	0.0616	18.9933	0.0663	18.5630	0.1800	89.4	0.278	0	0.14
25	201.5354424	-38.3722741	19.9911	0.1136	18.9417	0.0764	19.6896	0.6156	-82.7	0.394	0	0.33
26	201.5721386	-38.3719568	19.1290	0.0465	18.5878	0.0487	19.7216	0.5530	20.7	0.040	0	0.37
27	201.5980842	-38.3712013	18.3171	0.0340	18.1887	0.0519	19.0408	0.4599	-82.2	0.108	0	0.67
28	201.5247379	-38.3709926	18.5423	0.0450	18.2335	0.0589	18.0797	0.2074	-88.4	0.194	3	0.14
29	201.5190987	-38.3709376	18.3273	0.0350	17.9757	0.0437	17.4709	0.1110	78.6	0.054	0	0.54
31	201.5328395	-38.3705776	18.7533	0.0389	18.2725	0.0430	18.2258	0.1652	73.2	0.209	0	0.11
32	201.4759300	-38.3703919	18.4855	0.0442	18.2273	0.0606	17.4602	0.1214	77.2	0.154	0	0.66
34	201.5246662	-38.3702055	18.9820	0.0557	18.6368	0.0705	18.5399	0.2617	54.5	0.072	3	0.29
35	201.5482147	-38.3708761	20.0309	0.0665	19.1964	0.0534	18.3237	0.0955	-89.8	0.285	0	0.24
36	201.5557559	-38.3693994	18.3575	0.0418	17.8942	0.0476	17.9873	0.2102	-76.3	0.129	1	0.83
40	201.4799634	-38.3683724	18.9790	0.0474	18.5616	0.0558	18.1103	0.1486	87.2	0.294	0	0.72
41	201.4877252	-38.3688213	19.7777	0.0639	19.3175	0.0721	21.1303	1.5344	80.2	0.312	0	0.54
44	201.4955679	-38.3680661	19.0267	0.0494	18.5200	0.0537	17.8668	0.1189	88.0	0.166	0	0.28
45	201.5931109	-38.3685489	19.6384	0.0606	18.8427	0.0506	18.0847	0.1010	-84.8	0.242	0	0.13
46	201.4696525	-38.3689304	19.7873	0.0825	19.9438	0.1654	18.6501	0.2051	-74.1	0.295	24	0.56
47	201.5020665	-38.3660652	17.1622	0.0137	16.8522	0.0170	16.7770	0.0627	44.3	0.318	0	0.03
48	201.5547586	-38.3674501	18.4138	0.0335	18.0769	0.0422	18.0224	0.1616	86.0	0.214	1	0.86
50	201.4858842	-38.3674900	18.6799	0.0362	17.7522	0.0268	17.0812	0.0574	87.2	0.107	0	0.08
51	201.5273239	-38.2524650	19.5786	0.0896	19.3176	0.1234	18.6950	0.2835	83.2	0.487	0	0.64
52	201.5774710	-38.2416309	19.0674	0.0389	18.3201	0.0336	17.7447	0.0784	4.6	0.420	24	0.45
53	201.5884421	-38.2418643	18.8267	0.0474	18.8011	0.0800	19.6389	0.7017	-19.4	0.087	24	0.89
59	201.5359951	-38.2421384	19.8713	0.0639	19.2364	0.0615	18.4323	0.1176	52.6	0.241	0	0.58
60	201.5833867	-38.2423670	19.2076	0.0644	18.5390	0.0610	22.1351	6.7550	-84.3	0.359	16	0.02
62	201.6060563	-38.2597300	18.3553	0.0329	17.8113	0.0344	17.7045	0.1252	-71.7	0.159	0	0.73
63	201.6145831	-38.2598145	19.2877	0.0510	18.9975	0.0671	18.4075	0.1573	-87.9	0.227	0	0.86
65	201.5183528	-38.2598360	19.4488	0.0776	20.2665	0.2862	18.0469	0.1520	-63.1	0.089	0	0.39
66	201.4809083	-38.2600086	19.2905	0.0739	19.0861	0.1070	17.8095	0.1347	-54.8	0.273	0	0.25
68	201.6073430	-38.2609359	18.8428	0.0498	18.5413	0.0656	18.0068	0.1626	-82.5	0.162	0	0.24
69	201.4876137	-38.2612107	18.3677	0.0337	17.7131	0.0319	17.0008	0.0665	83.8	0.449	0	0.25
70	201.4699969	-38.2607595	19.7700	0.0813	19.0351	0.0723	17.9803	0.1110	0.1	0.086	26	0.62
72	201.5099358	-38.2611488	19.2722	0.0510	18.8028	0.0571	18.0365	0.1136	-89.0	0.186	0	0.80
77	201.5222785	-38.2623026	19.6484	0.1020	19.0565	0.1041	18.9286	0.3768	-88.6	0.292	0	0.32
78	201.5332172	-38.2626909	19.2503	0.0710	18.5121	0.0632	17.6195	0.1128	70.9	0.197	0	0.02
81	201.5244417	-38.2636426	17.3877	0.0241	16.6248	0.0208	15.9334	0.0444	43.7	0.310	3	0.02

Figure A.133: Catalogue for B Field p1p1

84	201.6095337	-38.2638259	19.4579	0.0694	18.9358	0.0748	18.6892	0.2415	-89.6	0.329	0	0.70
85	201.6218174	-38.2639338	19.5161	0.0856	18.6476	0.0678	17.9443	0.1439	-72.6	0.207	0	0.18
86	201.6002021	-38.2641775	19.0993	0.0634	18.6389	0.0726	18.6489	0.2972	47.6	0.087	0	0.51
88	201.5393251	-38.2647402	19.8524	0.0778	19.3491	0.0851	18.4237	0.1471	-43.4	0.119	0	0.08
92	201.6145650	-38.2652480	18.8222	0.0463	18.3112	0.0502	18.3703	0.2136	-73.3	0.195	0	0.47
93	201.4805550	-38.2651643	19.6764	0.1053	18.8188	0.0844	18.2666	0.2064	-89.7	0.169	0	0.02
94	201.5528539	-38.2658320	19.9772	0.0965	19.3102	0.0916	19.5853	0.4778	-68.5	0.123	0	0.58
95	201.5367432	-38.2663770	17.8319	0.0261	17.1135	0.0233	16.4965	0.0530	-79.2	0.257	0	0.03
96	201.5160813	-38.2660377	19.8400	0.0653	19.3498	0.0716	18.5466	0.1377	87.2	0.243	0	0.37
97	201.4744656	-38.2664636	19.2076	0.0843	18.7340	0.0959	19.3024	0.6596	87.1	0.211	0	0.45
98	201.6158080	-38.2665822	19.2604	0.0702	18.6523	0.0703	19.1237	0.4399	-51.3	0.120	0	0.87
99	201.5198705	-38.2677099	18.4154	0.0320	18.0417	0.0388	17.6191	0.1056	-84.7	0.068	0	0.70
100	201.4809494	-38.2677891	19.3521	0.0796	18.6245	0.0716	18.4264	0.2422	37.3	0.328	0	0.00
102	201.5100589	-38.2681313	19.7993	0.0685	19.2060	0.0688	19.1312	0.2581	89.4	0.279	0	0.67
103	201.6098775	-38.2687671	18.9374	0.0580	18.6384	0.0768	18.2603	0.2205	-88.7	0.172	0	0.83
105	201.6218162	-38.2690985	18.5398	0.0466	18.0446	0.0515	17.7866	0.1646	-80.2	0.158	0	0.63
107	201.5389374	-38.2691113	19.5548	0.0870	19.3261	0.1234	18.7229	0.2886	-59.9	0.263	0	0.36
108	201.5238201	-38.2696263	19.1897	0.0615	18.6678	0.0664	18.3179	0.1949	-87.3	0.171	0	0.31
113	201.4707346	-38.2707940	16.6784	0.0116	16.0467	0.0110	15.3668	0.0231	70.9	0.038	24	0.03
114	201.5928216	-38.2704415	19.3274	0.0665	18.6919	0.0648	17.7244	0.1078	-54.1	0.234	0	0.08
115	201.5397960	-38.2707163	19.8252	0.0760	19.0285	0.0637	19.5600	0.4176	77.1	0.202	0	0.75
116	201.5996833	-38.2711992	18.2807	0.0423	17.6695	0.0421	17.2902	0.1204	84.0	0.202	0	0.03
117	201.5278842	-38.2708672	20.0083	0.1095	18.9361	0.0721	18.2997	0.1624	-46.6	0.225	0	0.52
119	201.5226332	-38.2711708	19.0694	0.0646	19.0774	0.1134	19.4599	0.6570	-83.0	0.176	0	0.78
122	201.5663652	-38.2722024	18.5951	0.0451	17.6131	0.0321	17.0066	0.0739	75.7	0.051	0	0.01
123	201.5289285	-38.2724712	17.5549	0.0214	17.1618	0.0255	17.5305	0.1436	60.6	0.264	1	0.65
126	201.5596463	-38.2724075	20.2491	0.1406	19.6722	0.1456	22.8264	10.8243	-45.5	0.217	0	0.10
127	201.5461496	-38.2728927	17.9497	0.0307	17.2282	0.0275	16.5334	0.0585	-42.6	0.296	0	0.00
130	201.6291461	-38.2728036	19.7324	0.0634	19.2364	0.0692	18.9111	0.2064	-47.5	0.129	0	0.78
133	201.5199548	-38.2742559	19.0433	0.0655	18.9560	0.1056	18.7092	0.3427	79.3	0.119	0	0.12
134	201.5019272	-38.2742751	18.8332	0.0670	18.4673	0.0840	17.3414	0.1216	45.0	0.059	0	0.05
136	201.5683278	-38.2749954	19.7424	0.0756	19.4800	0.1031	19.5246	0.4355	-66.4	0.201	0	0.50
138	201.4872684	-38.2753182	19.8940	0.0635	19.0313	0.0498	18.3314	0.1042	49.8	0.115	0	0.59
139	201.5019873	-38.2760353	16.9538	0.0179	16.3121	0.0171	15.5348	0.0337	-85.1	0.235	0	0.03
140	201.5190943	-38.2758135	19.5774	0.0901	19.2427	0.1161	18.6733	0.2801	-44.4	0.290	0	0.02
141	201.5267920	-38.2762547	18.9671	0.0730	18.5600	0.0882	18.7825	0.4410	81.7	0.256	0	0.02
143	201.6098690	-38.2770145	17.7446	0.0200	17.1820	0.0202	17.1863	0.0803	-82.9	0.184	0	0.85
146	201.4998067	-38.2773951	18.2101	0.0366	17.6190	0.0370	16.8629	0.0747	-75.5	0.157	0	0.03
147	201.5033964	-38.2772170	19.1561	0.0777	18.4584	0.0719	17.7553	0.1532	-83.7	0.244	0	0.03
148	201.5475890	-38.2781842	17.3497	0.0158	16.7500	0.0154	16.3842	0.0432	57.0	0.423	0	0.25
149	201.5800864	-38.2778782	18.7514	0.0499	18.0851	0.0473	17.7965	0.1465	-25.0	0.161	0	0.05
150	201.6159952	-38.2779324	19.3293	0.0683	18.3948	0.0508	17.6522	0.1036	-78.2	0.121	0	0.45
151	201.4857680	-38.2781494	19.9882	0.0981	19.1992	0.0834	18.8963	0.2554	64.0	0.410	3	0.61
152	201.4853390	-38.2787013	19.6673	0.0921	19.0923	0.0953	19.5377	0.5833	46.3	0.243	2	0.66
153	201.4744016	-38.2784474	18.8431	0.0736	18.1036	0.0657	17.4799	0.1506	57.5	0.067	0	0.00
154	201.5739880	-38.2785558	19.6565	0.0869	19.0355	0.0861	18.6695	0.2495	-89.8	0.166	0	0.69
155	201.6083449	-38.2787395	19.5496	0.0856	18.4696	0.0559	18.1602	0.1700	71.3	0.147	0	0.17
156	201.5639093	-38.2787483	19.9324	0.0958	19.1756	0.0838	19.6557	0.5276	84.7	0.157	0	0.53
158	201.5999515	-38.2789452	20.0244	0.1205	19.0780	0.0891	19.0429	0.3500	89.7	0.204	0	0.51

Figure A.134: Catalogue for B Field p1p1 (cont.)

159	201.6127299	-38.2790596	20.2767	0.1025	19.5582	0.0926	19.6541	0.4084	-70.5	0.151	0	0.61
160	201.6195154	-38.2791189	19.9202	0.1322	19.2300	0.1236	98.9146	99.0000	-53.4	0.351	0	0.03
161	201.6333567	-38.2792123	20.0288	0.0714	19.1095	0.0534	18.0025	0.0772	44.5	0.149	16	0.64
163	201.5774194	-38.2796392	18.8071	0.0385	18.4937	0.0494	17.8650	0.1115	-86.5	0.234	0	0.83
165	201.4731746	-38.2801194	18.7795	0.0611	18.2959	0.0686	17.9985	0.2123	-88.1	0.265	0	0.16
166	201.5323439	-38.2806256	18.8297	0.0566	18.2164	0.0564	18.4749	0.2897	-82.8	0.088	0	0.21
170	201.5190409	-38.2810119	19.7630	0.1062	19.2000	0.1113	19.4763	0.5840	86.1	0.162	0	0.12
171	201.5357856	-38.2812630	19.6324	0.0922	19.1897	0.1077	20.3504	1.2748	-88.1	0.215	0	0.44
172	201.5617764	-38.2815260	18.7159	0.0447	18.1193	0.0449	17.7537	0.1293	-89.3	0.230	3	0.55
174	201.6134740	-38.2816048	20.2999	0.1359	19.3156	0.0970	98.9146	99.0000	-86.5	0.188	0	0.33
179	201.5033089	-38.2825807	19.2347	0.0742	18.6386	0.0753	18.6168	0.2997	84.4	0.234	0	0.62
181	201.4765900	-38.2831500	19.6934	0.0971	19.4732	0.1389	19.6627	0.6741	85.5	0.453	0	0.18
182	201.5226518	-38.2831751	20.1947	0.1295	19.5654	0.1278	22.7604	9.8488	88.4	0.263	0	0.24
183	201.5531767	-38.2837769	19.9210	0.0725	19.2095	0.0654	19.3783	0.3063	-20.3	0.120	0	0.66
184	201.5545471	-38.2843108	19.1197	0.0517	18.7080	0.0612	18.8560	0.2830	-89.9	0.286	0	0.50
185	201.4707572	-38.2840908	20.0064	0.1004	19.1676	0.0816	17.9054	0.1036	73.5	0.286	8	0.57
186	201.4877306	-38.2844219	18.3387	0.0336	17.4182	0.0251	16.7917	0.0563	82.3	0.119	0	0.03
187	201.6212536	-38.2845576	18.5372	0.0335	18.1872	0.0414	18.0067	0.1409	-86.2	0.115	0	0.78
190	201.4822837	-38.2841071	19.9867	0.0954	19.3701	0.0947	19.8407	0.5913	73.3	0.147	0	0.70
191	201.6139482	-38.2852611	18.9145	0.0489	18.2427	0.0459	18.2591	0.1877	79.6	0.176	0	0.16
192	201.6264953	-38.2850988	19.2925	0.0771	18.6643	0.0759	18.1348	0.1895	-19.8	0.332	0	0.01
193	201.5006530	-38.2853341	19.7248	0.0654	19.2998	0.0764	18.3806	0.1324	-89.1	0.199	0	0.34
195	201.6227248	-38.2856637	19.3910	0.0745	19.0137	0.0921	18.4412	0.2210	-73.8	0.386	0	0.53
198	201.5750407	-38.2863730	19.6525	0.0928	19.4987	0.1410	19.3084	0.4826	-73.2	0.119	0	0.38
201	201.6230560	-38.2870098	18.7845	0.0413	18.1765	0.0409	18.3712	0.1960	74.0	0.189	3	0.41
202	201.6224310	-38.2874779	19.1009	0.0513	18.3351	0.0442	18.2249	0.1602	-70.7	0.143	3	0.70
203	201.4737946	-38.2873264	18.2402	0.0413	17.7088	0.0442	16.6760	0.0694	72.9	0.087	0	0.01
204	201.6202278	-38.2877573	18.1379	0.0284	17.6070	0.0300	17.5188	0.1106	-78.7	0.225	0	0.76
205	201.6030627	-38.2878562	19.1939	0.0613	18.9599	0.0859	18.6954	0.2734	-82.9	0.135	0	0.84
207	201.5072598	-38.2886786	19.3085	0.0768	18.3379	0.0554	17.2709	0.0841	47.5	0.185	0	0.00
208	201.6292480	-38.2893267	17.5333	0.0187	16.8670	0.0173	16.5785	0.0523	-51.9	0.508	0	0.03
209	201.4890968	-38.2892090	18.9412	0.0535	17.9462	0.0376	17.2026	0.0764	-50.8	0.476	0	0.00
210	201.5043793	-38.2889554	19.8597	0.0903	19.4293	0.1062	19.4683	0.4470	87.3	0.254	0	0.44
213	201.5757142	-38.2899423	18.8957	0.0571	18.4785	0.0679	18.9484	0.4248	-89.7	0.238	0	0.30
214	201.5265968	-38.2899776	20.0001	0.1296	20.4390	0.3408	19.1570	0.4285	89.4	0.270	0	0.63
215	201.5169292	-38.2900730	19.8045	0.0936	19.2062	0.0947	20.7147	1.5400	-48.4	0.314	0	0.50
216	201.5212255	-38.2901604	19.6336	0.1013	19.2038	0.1199	19.1319	0.4574	-89.0	0.189	0	0.63
218	201.4811936	-38.2907315	18.9742	0.0425	18.4984	0.0472	18.2550	0.1513	-86.2	0.293	0	0.16
219	201.4882307	-38.2908202	18.5614	0.0339	17.8068	0.0292	17.0024	0.0557	53.6	0.104	0	0.04
221	201.4864836	-38.2913537	19.5897	0.0661	18.8220	0.0568	17.8501	0.0937	56.8	0.486	0	0.62
222	201.6079166	-38.2921704	17.9576	0.0212	17.4218	0.0218	17.1942	0.0699	-80.5	0.172	0	0.89
223	201.5106525	-38.2923046	19.5424	0.0578	19.2317	0.0746	20.6315	1.0889	-77.5	0.159	0	0.78
224	201.5537562	-38.2925006	18.6502	0.0335	18.2148	0.0383	17.8702	0.1114	-88.9	0.178	0	0.87
225	201.4904027	-38.2922245	19.9570	0.0731	19.4907	0.0823	19.7057	0.4038	0.3	0.178	0	0.53
230	201.5321147	-38.2928891	19.6888	0.1177	18.6479	0.0799	17.9880	0.1771	-16.1	0.210	0	0.00
232	201.4862565	-38.2930981	19.4787	0.0560	19.2862	0.0804	18.9046	0.2287	87.0	0.205	0	0.76
233	201.5196309	-38.2933803	18.4805	0.0414	18.0334	0.0477	17.9540	0.1794	58.0	0.134	0	0.41
235	201.5584012	-38.2937463	19.5856	0.0986	18.7918	0.0837	18.8672	0.3645	-88.9	0.228	0	0.12
236	201.5600259	-38.2938838	18.9203	0.0546	18.1623	0.0475	17.8988	0.1506	-75.1	0.152	0	0.63

Figure A.135: Catalogue for B Field p1p1 (cont.)

237	201.4912550	-38.2940693	19.0381	0.0633	18.7180	0.0824	17.8297	0.1480	82.8	0.331	0	0.14
239	201.4802073	-38.2946827	18.7729	0.0399	18.2564	0.0427	17.9751	0.1325	-87.1	0.208	0	0.79
240	201.5280486	-38.2948742	18.5038	0.0540	17.9880	0.0589	17.2806	0.1251	88.7	0.199	0	0.03
242	201.6148443	-38.2953314	18.9674	0.0674	18.4194	0.0715	17.6661	0.1454	-60.3	0.080	0	0.05
244	201.6093536	-38.2956239	19.3553	0.0865	18.9277	0.1026	18.1551	0.2054	83.6	0.329	0	0.00
245	201.4894131	-38.2954418	19.6742	0.0765	18.9910	0.0714	18.0934	0.1264	-77.2	0.143	0	0.11
246	201.5902719	-38.2956402	19.8686	0.0876	19.3177	0.0922	18.6915	0.2101	77.9	0.264	0	0.70
247	201.5840435	-38.2958189	19.8863	0.0672	19.3163	0.0686	19.3295	0.2787	-74.1	0.125	0	0.63
248	201.4757660	-38.2960075	18.7433	0.0623	18.5747	0.0935	18.2198	0.2750	86.0	0.076	0	0.08
256	201.6207191	-38.2980581	19.6175	0.0975	19.5423	0.1596	19.3306	0.5360	-78.4	0.068	0	0.37
260	201.6207082	-38.2991374	18.8224	0.0630	18.6278	0.0922	17.3049	0.1114	84.4	0.277	0	0.01
264	201.5202958	-38.2997501	19.5804	0.0721	19.0980	0.0806	19.3481	0.4106	-24.0	0.086	0	0.73
268	201.5140605	-38.3001828	19.8438	0.0616	19.6250	0.0859	19.0007	0.1950	79.7	0.225	0	0.60
269	201.5742517	-38.3017414	18.6361	0.0390	18.0386	0.0389	17.2033	0.0727	-60.2	0.521	0	0.21
270	201.4834013	-38.3012906	19.7989	0.0772	19.2203	0.0790	19.5220	0.4209	-68.9	0.072	0	0.74
271	201.6289636	-38.3017348	19.4825	0.0734	18.6860	0.0618	17.8804	0.1192	80.3	0.269	0	0.03
272	201.5006911	-38.3016405	19.4238	0.0571	18.9725	0.0651	19.2053	0.3247	-79.1	0.336	0	0.46
274	201.5076618	-38.3018239	19.6293	0.0562	19.1268	0.0607	19.2029	0.2607	-89.0	0.172	0	0.71
275	201.5526160	-38.3021722	18.6403	0.0505	17.7790	0.0401	17.4950	0.1248	-78.4	0.023	0	0.01
279	201.5031352	-38.3030806	19.2971	0.0647	18.8649	0.0758	18.4802	0.2157	74.1	0.209	0	0.25
280	201.5095143	-38.3032751	19.0101	0.0393	18.5696	0.0447	18.4056	0.1534	89.3	0.149	0	0.89
284	201.6158544	-38.3041793	19.8001	0.1131	19.2215	0.1169	18.8389	0.3349	88.7	0.365	0	0.01
285	201.4972718	-38.3041456	19.2001	0.0473	18.8380	0.0581	18.7470	0.2147	-88.7	0.219	0	0.53
286	201.6147518	-38.3048028	19.3142	0.0816	18.8920	0.0971	19.0312	0.4494	86.9	0.167	0	0.22
287	201.6189904	-38.3050320	18.3200	0.0474	17.8377	0.0532	17.3965	0.1442	22.5	0.271	0	0.03
288	201.5391001	-38.3050007	18.9813	0.0430	18.3659	0.0421	17.7157	0.0929	-89.1	0.188	0	0.73
289	201.6084261	-38.3051247	19.4845	0.0859	19.1372	0.1094	21.6903	4.6732	-50.1	0.104	0	0.27
290	201.6209077	-38.3053471	18.9436	0.0461	18.9068	0.0766	19.0689	0.3602	-78.1	0.242	0	0.63
291	201.5678278	-38.3055553	18.9408	0.0605	18.6200	0.0787	18.2806	0.2343	-73.6	0.168	2	0.84
292	201.5686447	-38.3055817	19.5352	0.0835	19.2345	0.1108	18.7730	0.2949	20.6	0.411	3	0.59
293	201.5728761	-38.3056415	18.9508	0.0410	18.3928	0.0422	18.3069	0.1558	-62.9	0.146	0	0.89
294	201.6117942	-38.3058806	19.4605	0.0918	18.9875	0.1044	18.5323	0.2798	69.3	0.211	0	0.11
296	201.6176935	-38.3065716	19.8914	0.0778	19.3150	0.0797	19.3165	0.3218	-57.5	0.278	0	0.34
297	201.6270338	-38.3067231	19.7757	0.0922	19.3179	0.1059	18.7290	0.2505	73.4	0.154	0	0.58
300	201.6318021	-38.3071205	19.3808	0.0538	18.6807	0.0489	18.0335	0.1082	-89.2	0.187	0	0.77
302	201.5354001	-38.3075332	19.1097	0.0671	18.7384	0.0834	17.9322	0.1617	-88.7	0.232	0	0.73
303	201.6021741	-38.3079523	19.3583	0.0528	18.9980	0.0651	18.8608	0.2311	-82.4	0.183	0	0.88
309	201.5627858	-38.3092256	18.7145	0.0569	18.1281	0.0581	17.3172	0.1120	-64.3	0.267	0	0.00
310	201.4763592	-38.3102372	16.8065	0.0101	16.2942	0.0103	16.1480	0.0347	-89.9	0.191	3	0.33
314	201.5151135	-38.3104370	19.7881	0.0903	19.3287	0.1035	18.3031	0.1639	74.4	0.274	0	0.66
315	201.5727197	-38.3107116	19.6640	0.0790	19.1779	0.0882	19.4452	0.4572	-79.2	0.124	0	0.73
317	201.5542492	-38.3110215	19.9791	0.0892	19.3976	0.0912	19.5288	0.4165	-87.7	0.285	0	0.60
318	201.5423147	-38.3113881	19.8797	0.0676	19.0529	0.0549	19.2415	0.2604	80.5	0.060	0	0.71
319	201.6060363	-38.3114599	20.0693	0.0709	19.8035	0.0951	19.4766	0.2836	-77.0	0.273	0	0.67
321	201.5379256	-38.3121077	18.6756	0.0431	18.2045	0.0485	18.5120	0.2595	-88.5	0.201	0	0.80
322	201.5287261	-38.3123649	18.2678	0.0302	17.7401	0.0319	17.4348	0.0965	-84.1	0.220	0	0.81
323	201.4711568	-38.3123286	18.7026	0.0590	18.5226	0.0874	17.9132	0.2034	-89.8	0.354	0	0.11
324	201.5312101	-38.3126675	18.3839	0.0290	17.7362	0.0273	17.7155	0.1064	-84.9	0.237	0	0.82
325	201.5998335	-38.3128230	18.2442	0.0378	17.5189	0.0339	16.8007	0.0707	-61.8	0.169	0	0.01

Figure A.136: Catalogue for B Field p1p1 (cont.)

326	201.5069081	-38.3124533	19.8415	0.0631	19.2057	0.0606	18.9059	0.1839	-88.1	0.260	0	0.59
327	201.5735432	-38.3134420	17.1987	0.0154	16.3477	0.0120	15.6436	0.0248	-44.2	0.470	0	0.02
330	201.5543200	-38.3151097	15.8358	0.0056	15.1844	0.0049	14.6701	0.0115	85.0	0.445	0	0.03
331	201.5407192	-38.3138569	19.7034	0.0636	19.3197	0.0770	19.4792	0.3591	-45.9	0.117	0	0.81
332	201.5654126	-38.3138629	19.4000	0.0582	18.6039	0.0487	18.1142	0.1246	50.7	0.087	0	0.61
333	201.5497611	-38.3141185	19.2758	0.0515	18.8116	0.0579	18.8641	0.2445	-88.4	0.227	0	0.76
334	201.4920027	-38.3143925	18.8941	0.0430	18.1824	0.0387	18.0588	0.1382	-81.8	0.168	0	0.80
340	201.4921258	-38.3156533	19.5011	0.0699	18.8036	0.0643	18.3970	0.1786	75.9	0.298	3	0.82
341	201.4914190	-38.3162397	19.6701	0.0786	18.6790	0.0555	18.1204	0.1338	77.8	0.176	2	0.36
342	201.6256662	-38.3161069	18.5655	0.0330	17.8897	0.0305	17.7893	0.1107	88.3	0.218	0	0.48
343	201.4800245	-38.3159132	19.6410	0.0596	19.2295	0.0703	18.7790	0.1869	89.7	0.361	0	0.80
344	201.5806117	-38.3160284	19.4899	0.0759	18.1896	0.0406	17.6980	0.1038	27.0	0.319	0	0.07
345	201.5901777	-38.3161284	19.9005	0.0742	19.2830	0.0730	19.5557	0.3772	-60.7	0.232	0	0.68
347	201.5384084	-38.3174070	18.9697	0.0457	18.5567	0.0539	17.9696	0.1267	-84.7	0.164	0	0.09
348	201.5575036	-38.3175906	19.0623	0.0582	18.4945	0.0603	18.5922	0.2669	84.6	0.207	0	0.20
351	201.4759194	-38.3181587	18.6511	0.0540	18.3919	0.0744	17.6191	0.1487	-60.9	0.058	0	0.32
352	201.5040450	-38.3180981	19.2944	0.0617	18.6455	0.0593	18.2639	0.1686	77.4	0.085	3	0.85
353	201.5051050	-38.3182167	19.1343	0.0470	18.5887	0.0490	18.6279	0.2038	-44.9	0.126	2	0.89
354	201.5942373	-38.3184592	18.5020	0.0347	17.6151	0.0267	16.8734	0.0538	-73.3	0.192	0	0.06
355	201.4969606	-38.3181346	19.7121	0.0622	19.1088	0.0617	18.7552	0.1789	-77.8	0.193	0	0.74
356	201.5406882	-38.3186064	18.6097	0.0529	17.6750	0.0394	17.1333	0.0968	-57.8	0.221	3	0.24
357	201.5408944	-38.3195834	17.9227	0.0330	17.1203	0.0276	16.3490	0.0548	88.7	0.157	3	0.07
358	201.5233129	-38.3184774	19.6734	0.0653	19.4918	0.0952	19.0928	0.2670	-81.5	0.167	0	0.68
360	201.6241536	-38.3190096	19.6507	0.0677	19.3001	0.0849	18.6119	0.1824	-76.6	0.203	0	0.69
361	201.6158109	-38.3192386	19.5172	0.0876	19.2956	0.1251	19.2490	0.4883	-66.3	0.076	0	0.00
364	201.5758315	-38.3213785	17.3205	0.0185	16.6217	0.0167	15.7755	0.0307	-73.4	0.278	0	0.04
365	201.6130770	-38.3209021	18.7958	0.0472	18.1042	0.0435	18.2468	0.1999	-82.3	0.133	0	0.44
366	201.4764598	-38.3215595	16.7693	0.0101	16.1888	0.0098	16.0380	0.0328	69.0	0.371	2	0.35
367	201.4751219	-38.3213584	18.0913	0.0248	17.5485	0.0257	17.4645	0.0944	-85.3	0.184	3	0.72
368	201.4880563	-38.3209268	18.9711	0.0661	18.0303	0.0490	17.8482	0.1676	-33.7	0.175	2	0.68
369	201.5577773	-38.3214170	17.5412	0.0195	16.7958	0.0168	16.0801	0.0346	50.4	0.148	0	0.03
370	201.4735161	-38.3221263	18.1335	0.0360	17.9264	0.0517	17.7158	0.1727	59.0	0.432	0	0.01
371	201.5522478	-38.3218226	19.2255	0.0527	18.1336	0.0339	17.3481	0.0656	-30.0	0.132	0	0.00
372	201.5322679	-38.3220748	19.3259	0.0758	19.0475	0.1026	18.0303	0.1639	-81.5	0.316	0	0.02
374	201.4930518	-38.3220739	19.7580	0.0809	19.0725	0.0753	18.6236	0.2016	-84.2	0.165	0	0.67
375	201.4998356	-38.3219368	19.7154	0.0912	18.8274	0.0709	18.6264	0.2387	-15.4	0.289	0	0.14
378	201.6209350	-38.3225130	19.4223	0.0807	18.7063	0.0733	18.0262	0.1593	-60.9	0.206	0	0.79
379	201.5806035	-38.3227423	19.0892	0.0465	18.5484	0.0488	18.4210	0.1741	85.3	0.160	0	0.87
381	201.5441884	-38.3228729	19.3782	0.0563	18.8538	0.0602	19.2084	0.3354	-66.9	0.141	0	0.73
383	201.6043800	-38.3235368	19.0249	0.0696	18.1222	0.0535	17.2724	0.0993	87.1	0.347	0	0.01
384	201.5529478	-38.3236218	20.0650	0.0831	19.3512	0.0751	18.9192	0.2033	-76.1	0.274	0	0.64
386	201.5076549	-38.3239623	19.3882	0.0809	18.8224	0.0844	17.6776	0.1198	52.3	0.240	0	0.00
387	201.6059287	-38.3244448	18.4953	0.0463	17.8644	0.0453	17.5343	0.1353	-86.9	0.388	0	0.03
388	201.4843184	-38.3245154	18.8581	0.0671	18.6061	0.0934	17.3859	0.1239	-47.3	0.193	0	0.00
390	201.4790511	-38.3246916	19.3816	0.0546	18.6602	0.0488	18.5511	0.1767	-61.9	0.258	0	0.69
391	201.5451650	-38.3244839	19.6079	0.0881	19.2692	0.1129	18.2009	0.1721	-44.9	0.138	0	0.63
392	201.5258654	-38.3252298	20.1538	0.1323	19.8240	0.1717	20.7903	1.7045	-81.2	0.384	0	0.21
393	201.5074507	-38.3254574	19.5417	0.0816	19.0814	0.0935	18.6826	0.2633	-80.3	0.229	0	0.01
394	201.5493117	-38.3260002	17.6291	0.0211	16.8465	0.0177	16.2590	0.0409	65.0	0.115	0	0.04

Figure A.137: Catalogue for B Field p1p1 (cont.)

396	201.5558775	-38.3255991	20.1311	0.0862	19.1343	0.0604	18.2009	0.1029	-74.6	0.273	0	0.31
397	201.6199312	-38.3262275	18.8509	0.0593	18.7976	0.0985	18.1512	0.2215	-53.2	0.044	2	0.12
398	201.6210295	-38.3263889	19.5012	0.0913	19.0957	0.1104	18.4751	0.2541	-58.1	0.200	3	0.16
399	201.5339846	-38.3266194	18.9141	0.0435	18.5043	0.0514	18.2154	0.1588	75.0	0.155	0	0.77
400	201.5551689	-38.3265488	19.5326	0.0756	19.0089	0.0816	18.4356	0.1954	-72.4	0.153	0	0.50
401	201.5408171	-38.3268022	18.3230	0.0278	17.7788	0.0288	17.6758	0.1040	-40.1	0.150	0	0.19
403	201.5712339	-38.3271438	20.0000	0.0777	18.8688	0.0482	18.0705	0.0924	76.8	0.157	0	0.27
406	201.4745345	-38.3278446	19.4999	0.0786	19.4612	0.1323	18.2136	0.1711	-88.4	0.290	0	0.25
411	201.5600793	-38.3284658	19.6075	0.0793	18.9582	0.0764	18.2208	0.1571	-56.8	0.167	0	0.17
412	201.4950362	-38.3288495	19.2626	0.0550	18.9139	0.0690	18.1287	0.1356	-85.2	0.208	0	0.65
416	201.5739072	-38.3298065	19.4440	0.0569	18.8973	0.0595	19.5524	0.4363	-78.1	0.262	0	0.50
417	201.6220399	-38.3302429	17.7349	0.0193	17.1565	0.0192	16.9535	0.0627	-87.4	0.195	0	0.83
418	201.5396010	-38.3299973	19.2429	0.1017	18.6557	0.1046	18.0707	0.2492	-44.8	0.387	0	0.05
419	201.5969573	-38.3309819	15.9934	0.0081	15.3759	0.0078	14.9246	0.0201	-15.3	0.322	0	0.03
423	201.5459301	-38.3353400	17.2282	0.0165	16.7036	0.0173	16.6896	0.0680	-69.0	0.408	3	0.04
425	201.4814555	-38.3311908	19.8461	0.0678	19.3447	0.0739	19.0482	0.2262	88.2	0.211	0	0.63
427	201.5488278	-38.3316127	18.7869	0.0495	18.6029	0.0725	18.1906	0.2013	-85.2	0.156	0	0.51
428	201.5521464	-38.3313568	20.1084	0.0700	19.0151	0.0448	18.2823	0.0903	-88.3	0.188	0	0.52
429	201.5247405	-38.3318744	19.4391	0.0901	19.3313	0.1430	18.5666	0.2888	77.3	0.131	0	0.23
430	201.6316908	-38.3326792	19.2591	0.0623	18.4770	0.0531	18.3994	0.1993	-81.2	0.377	0	0.80
431	201.5771850	-38.3328606	19.4329	0.0629	18.7394	0.0579	18.0249	0.1211	-83.9	0.333	0	0.25
432	201.5890570	-38.3328400	19.7797	0.0920	19.2078	0.0953	19.0593	0.3375	-89.8	0.249	0	0.56
433	201.4742849	-38.3330159	19.1283	0.0832	18.7387	0.1023	18.8641	0.4681	-88.6	0.484	0	0.00
434	201.4849654	-38.3330523	18.4370	0.0398	17.8707	0.0411	17.1124	0.0827	-86.8	0.231	0	0.05
436	201.5706366	-38.3329995	19.9080	0.0643	19.2376	0.0598	19.0022	0.1924	64.9	0.205	0	0.72
437	201.6165495	-38.3332945	19.7545	0.1001	19.1840	0.1040	19.1164	0.3976	16.4	0.141	0	0.61
438	201.5984726	-38.3335267	19.8065	0.1208	19.1183	0.1131	20.7559	2.0805	-16.2	0.135	0	0.44
439	201.6336746	-38.3342128	17.0002	0.0093	16.5160	0.0094	16.5352	0.0354	-87.0	0.286	24	0.86
440	201.5317596	-38.3341534	19.3309	0.0842	18.9049	0.0999	18.5165	0.2847	70.5	0.489	0	0.02
441	201.5387930	-38.3341449	18.5084	0.0608	17.8510	0.0585	17.3311	0.1475	43.1	0.120	0	0.01
442	201.5860917	-38.3345103	18.4316	0.0456	17.5847	0.0367	17.1002	0.0950	6.5	0.301	0	0.00
443	201.5908566	-38.3343527	20.0430	0.0824	19.4250	0.0812	20.4464	0.8369	-89.1	0.258	0	0.26
444	201.5012782	-38.3343778	19.1126	0.0726	18.7871	0.0943	26.9773	0.5276	-52.2	0.356	1	0.03
445	201.5664639	-38.3346456	19.0044	0.0501	18.5029	0.0548	18.5762	0.2366	-81.5	0.227	0	0.73
453	201.5069068	-38.3361513	19.5267	0.0871	18.7929	0.0779	17.9943	0.1518	-89.5	0.181	0	0.17
454	201.5482387	-38.3368912	17.4484	0.0179	16.8093	0.0169	16.3526	0.0440	55.8	0.487	0	0.61
458	201.5936753	-38.3369704	18.2723	0.0289	17.7213	0.0298	17.1191	0.0686	-76.7	0.167	0	0.01
459	201.6029135	-38.3369712	20.0744	0.1325	19.7754	0.1771	20.7378	1.7527	-87.6	0.202	0	0.64
460	201.6116677	-38.3373875	18.8308	0.0397	18.2680	0.0408	18.6273	0.2269	-80.3	0.222	0	0.75
461	201.4987316	-38.3372746	18.9216	0.0767	17.7883	0.0478	17.3240	0.1266	-74.3	0.087	0	0.00
462	201.5430187	-38.3374624	19.5808	0.0582	19.0456	0.0613	18.8125	0.1987	77.1	0.207	0	0.83
463	201.4761485	-38.3381728	18.2795	0.0412	18.1363	0.0629	17.5238	0.1455	85.3	0.137	0	0.78
464	201.4843427	-38.3380827	19.1895	0.0739	18.8471	0.0945	18.4986	0.2793	89.9	0.315	0	0.11
469	201.6216340	-38.3385985	19.7646	0.0782	18.9718	0.0660	19.1011	0.2995	-89.7	0.111	0	0.73
471	201.5108293	-38.3392361	18.3679	0.0330	17.6969	0.0308	17.3445	0.0891	10.9	0.124	0	0.00
476	201.5852767	-38.3400959	19.2138	0.0524	18.7779	0.0607	18.2964	0.1572	-87.4	0.200	0	0.11
477	201.5497512	-38.3407877	18.1441	0.0278	17.7427	0.0329	17.6499	0.1210	61.8	0.384	0	0.72
480	201.4868600	-38.3411966	17.9626	0.0281	17.0983	0.0221	16.4161	0.0472	84.4	0.166	0	0.01
481	201.5059357	-38.3419621	18.2133	0.0263	17.9073	0.0336	17.6495	0.1060	90.0	0.180	3	0.58

Figure A.138: Catalogue for B Field p1p1 (cont.)

482	201.5053611	-38.3428755	17.1036	0.0138	16.3694	0.0119	15.7241	0.0258	-42.1	0.269	2	0.03
484	201.5738508	-38.3424367	19.5442	0.0865	18.7870	0.0758	17.8080	0.1250	-1.5	0.202	0	0.59
485	201.5245673	-38.3427493	18.9969	0.0462	18.5881	0.0546	18.3780	0.1815	-82.4	0.204	0	0.79
486	201.5170079	-38.3428016	19.4716	0.0583	18.8264	0.0558	18.4890	0.1643	72.2	0.251	0	0.34
488	201.5585593	-38.3431279	19.7973	0.0811	19.5720	0.1146	18.8685	0.2437	89.8	0.357	0	0.66
489	201.6000409	-38.3437319	18.7805	0.0571	17.9563	0.0470	17.6046	0.1378	60.7	0.135	0	0.01
491	201.5797737	-38.3446391	17.0287	0.0122	16.3055	0.0105	15.5622	0.0207	75.2	0.027	0	0.03
492	201.4796002	-38.3443945	17.9235	0.0205	17.5130	0.0236	17.5019	0.0922	87.5	0.132	0	0.87
496	201.5321096	-38.3454309	18.6191	0.0440	18.0527	0.0455	18.2123	0.2128	-86.2	0.333	3	0.16
497	201.5324877	-38.3463937	19.4405	0.0611	19.0689	0.0751	18.5825	0.1941	87.6	0.286	3	0.43
498	201.5638445	-38.3453611	19.3470	0.0809	18.4029	0.0599	18.2258	0.2060	61.9	0.237	0	0.00
501	201.5277861	-38.3460824	18.9232	0.0637	18.2573	0.0606	17.9380	0.1833	89.4	0.255	0	0.45
505	201.6219247	-38.3486438	18.2416	0.0410	17.5924	0.0394	17.1347	0.1047	-72.1	0.055	3	0.04
507	201.5639900	-38.3479685	19.3171	0.0523	18.3512	0.0376	17.3601	0.0604	81.3	0.208	0	0.44
510	201.5965643	-38.3489841	19.2702	0.0485	18.7213	0.0504	18.4743	0.1608	-85.8	0.133	0	0.89
511	201.6070853	-38.3496212	17.7949	0.0272	17.0476	0.0238	16.5158	0.0585	74.8	0.465	0	0.02
512	201.5679534	-38.3490573	19.7619	0.0644	19.0710	0.0590	18.6059	0.1543	-75.7	0.133	0	0.11
513	201.5016021	-38.3494996	18.9305	0.0409	18.7696	0.0602	18.5916	0.2061	81.7	0.191	0	0.79
514	201.5656381	-38.3495727	18.7458	0.0450	18.5660	0.0659	19.1605	0.4616	-89.5	0.079	0	0.74
515	201.6267040	-38.3496893	19.1359	0.0622	18.8067	0.0801	17.8828	0.1391	86.8	0.401	0	0.01
516	201.5588091	-38.3497810	18.3840	0.0447	17.4873	0.0344	16.5449	0.0584	27.0	0.422	0	0.00
517	201.5749603	-38.3498076	19.1142	0.0711	19.0374	0.1159	18.6144	0.3201	68.4	0.321	0	0.02
519	201.4944192	-38.3499267	19.4531	0.0861	18.9203	0.0926	18.2650	0.2061	-76.0	0.367	0	0.00
521	201.5991056	-38.3505111	19.4295	0.0706	18.8249	0.0708	19.0082	0.3390	9.5	0.034	0	0.30
522	201.4896441	-38.3504886	19.5210	0.0576	18.9546	0.0591	18.7642	0.1993	82.9	0.111	0	0.85
524	201.5879802	-38.3510672	17.9725	0.0241	17.2768	0.0218	16.6406	0.0483	56.8	0.325	0	0.02
525	201.6266923	-38.3510492	18.4691	0.0433	18.2497	0.0614	17.8441	0.1717	-25.8	0.016	0	0.09
526	201.4698645	-38.3512868	18.8049	0.0373	18.5718	0.0513	17.9871	0.1205	-89.4	0.354	24	0.03
528	201.6044576	-38.3514215	19.2494	0.0732	18.8504	0.0888	19.1755	0.4872	-85.5	0.206	0	0.20
532	201.5026774	-38.3519060	19.5503	0.0808	18.5605	0.0573	18.0250	0.1414	24.0	0.185	0	0.29
534	201.5783896	-38.3522035	20.0321	0.1021	19.3537	0.0959	19.4980	0.4440	75.3	0.285	0	0.26
538	201.4759063	-38.3524928	19.8774	0.0989	19.7738	0.1572	20.2634	1.0052	-13.3	0.003	0	0.26
539	201.5004018	-38.3530493	18.9403	0.0424	18.6924	0.0578	18.8735	0.2751	-87.1	0.242	0	0.67
544	201.6016762	-38.3535447	19.2496	0.0719	18.5671	0.0673	18.4218	0.2388	88.2	0.110	0	0.72
545	201.6089364	-38.3541287	18.8495	0.0529	18.3340	0.0574	18.3060	0.2266	89.9	0.078	0	0.88
546	201.5263283	-38.3547390	19.9679	0.1050	18.8470	0.0661	18.3049	0.1623	87.0	0.038	0	0.32
547	201.5125981	-38.3550844	18.8378	0.0623	17.9506	0.0485	17.3396	0.1120	-74.4	0.296	0	0.18
548	201.5904881	-38.3553261	18.9710	0.0424	18.5632	0.0500	18.8062	0.2510	-87.7	0.109	0	0.34
549	201.6231360	-38.3556933	18.6749	0.0416	18.0739	0.0415	17.1781	0.0734	-81.6	0.212	0	0.03
550	201.5590207	-38.3557463	18.9832	0.0649	18.5215	0.0744	17.8201	0.1587	89.9	0.244	0	0.09
552	201.4707391	-38.3567281	18.5950	0.0442	18.6346	0.0794	17.9002	0.1643	-74.7	0.246	16	0.69
553	201.6104341	-38.3571783	19.5275	0.0731	18.7464	0.0624	17.9187	0.1178	79.8	0.180	0	0.69
555	201.5637633	-38.3583923	15.8175	0.0061	15.0922	0.0051	14.4993	0.0113	34.8	0.447	2	0.03
561	201.5466109	-38.3590919	18.4038	0.0291	18.1218	0.0381	17.8685	0.1208	-86.9	0.150	0	0.89
562	201.4834593	-38.3589442	19.8004	0.0609	19.4834	0.0777	18.7742	0.1630	-4.0	0.010	0	0.57
563	201.5374257	-38.3591368	19.3864	0.0821	19.2665	0.1287	18.7072	0.3136	65.8	0.176	0	0.37
564	201.5528229	-38.2433902	20.0999	0.0728	19.0900	0.0502	18.7185	0.1416	-72.4	0.301	0	0.60
565	201.5679810	-38.3596274	20.1514	0.0963	19.3147	0.0782	19.7370	0.4645	-66.4	0.223	0	0.49
566	201.6032308	-38.3601683	19.7548	0.0847	19.3022	0.0976	18.4686	0.1841	84.2	0.177	0	0.33

Figure A.139: Catalogue for B Field p1p1 (cont.)

567	201.5902143	-38.3606532	19.1162	0.0650	18.8424	0.0882	17.9663	0.1603	-87.9	0.100	0	0.84
568	201.5452333	-38.3613855	18.9234	0.0473	18.1544	0.0406	17.8357	0.1215	-84.3	0.111	0	0.04
569	201.5185829	-38.3615789	18.6547	0.0372	18.2933	0.0458	18.1146	0.1563	-84.2	0.112	0	0.89
570	201.4782418	-38.3614914	19.7027	0.0720	19.1923	0.0782	18.7177	0.2043	-82.5	0.250	0	0.23
571	201.5937028	-38.3617290	19.7017	0.0641	18.8673	0.0518	18.5466	0.1542	50.9	0.143	0	0.85
572	201.6016667	-38.3622213	19.7190	0.0853	19.4474	0.1160	98.9146	99.0000	66.6	0.260	0	0.45
573	201.6190947	-38.3623360	19.4356	0.0916	19.2355	0.1337	18.2747	0.2254	77.1	0.285	0	0.42
578	201.6066071	-38.2434636	19.6807	0.0940	19.2247	0.1084	20.0401	0.9342	-89.4	0.446	0	0.61
579	201.6254615	-38.3645414	17.4819	0.0178	16.8737	0.0173	16.7883	0.0632	-75.2	0.496	0	0.03
581	201.6068764	-38.3641402	19.5726	0.0917	18.9119	0.0878	18.2177	0.1885	-81.0	0.174	0	0.13
583	201.5828977	-38.3644827	18.6552	0.0455	17.8182	0.0368	16.8697	0.0621	71.5	0.182	0	0.02
588	201.4969625	-38.3649827	20.1281	0.0961	19.3413	0.0816	19.7798	0.4927	75.4	0.145	0	0.67
589	201.6065101	-38.3657059	19.4982	0.0754	18.9947	0.0830	19.1162	0.3762	45.4	0.066	0	0.35
591	201.5398749	-38.3659383	18.3492	0.0409	17.4885	0.0325	16.9362	0.0788	25.8	0.428	3	0.01
594	201.6211930	-38.3659216	19.6112	0.0819	18.7802	0.0670	18.5760	0.2245	75.3	0.156	0	0.50
595	201.5609309	-38.3660729	19.5454	0.0635	19.0521	0.0699	19.1510	0.3089	88.8	0.128	0	0.12
596	201.5923086	-38.3663448	18.0476	0.0240	17.2241	0.0193	16.6170	0.0437	68.6	0.117	0	0.02
597	201.6221422	-38.3661749	19.4182	0.0916	18.6715	0.0812	17.4715	0.1096	77.0	0.291	0	0.16
598	201.6096196	-38.2586289	18.7474	0.0507	18.6985	0.0841	18.2341	0.2233	-69.7	0.303	3	0.72
599	201.5588171	-38.2543188	19.0299	0.0721	18.5463	0.0812	17.6965	0.1512	-64.9	0.098	0	0.70
600	201.5436348	-38.2575716	18.2077	0.0286	17.3081	0.0217	16.7799	0.0530	60.4	0.092	0	0.01
601	201.6098677	-38.2597780	17.5137	0.0180	17.0627	0.0201	16.7113	0.0577	-22.4	0.166	2	0.03
602	201.5372978	-38.3675214	19.5368	0.1050	19.8516	0.2463	98.9146	99.0000	63.6	0.418	0	0.27
603	201.5359161	-38.3678223	19.0514	0.0715	19.6404	0.2147	98.9146	99.0000	-79.6	0.177	0	0.01
604	201.5314494	-38.3678560	19.3697	0.0731	18.5705	0.0615	17.7788	0.1203	84.4	0.147	0	0.14
605	201.6108560	-38.3678794	19.8325	0.1051	19.3606	0.1196	19.3553	0.4844	-80.9	0.248	0	0.00
606	201.5646808	-38.3680494	19.2706	0.0765	18.8364	0.0899	18.0716	0.1810	-86.8	0.301	0	0.02
607	201.6044641	-38.2434431	18.5165	0.0566	18.1649	0.0719	98.9146	99.0000	86.8	0.391	0	0.11
608	201.5822966	-38.2435549	18.0299	0.0242	17.3843	0.0229	17.1587	0.0737	69.6	0.334	0	0.03
611	201.6195924	-38.2432339	18.4528	0.0436	17.8006	0.0418	18.0731	0.2170	-74.4	0.133	3	0.46
613	201.6089810	-38.2443565	17.7106	0.0319	17.9578	0.0695	98.9146	99.0000	-5.8	0.199	0	0.13
615	201.6251795	-38.2499362	19.3402	0.0634	18.4481	0.0489	17.7905	0.1076	-83.7	0.358	0	0.01
620	201.6273433	-38.2446344	19.9260	0.1164	18.9289	0.0821	20.4647	1.3691	-40.3	0.640	0	0.07
623	201.5808463	-38.2541770	19.7861	0.0697	19.1794	0.0692	18.7990	0.1962	-78.6	0.187	0	0.69
624	201.6002586	-38.2465897	19.1077	0.0459	18.6445	0.0515	18.0553	0.1205	-73.0	0.090	0	0.70
627	201.5647271	-38.2469003	19.8815	0.0669	19.6806	0.0953	18.8799	0.1845	82.3	0.263	0	0.69
629	201.6164572	-38.2480529	18.9348	0.0506	18.9013	0.0847	98.9146	99.0000	-87.6	0.143	0	0.26
630	201.6231561	-38.2459885	19.7764	0.1025	19.0362	0.0913	19.5058	0.5713	-89.1	0.266	0	0.02
631	201.6335712	-38.2493556	18.0756	0.0368	17.4713	0.0369	17.1391	0.1100	-86.1	0.545	19	0.02
634	201.5840057	-38.2502934	18.8547	0.0660	18.9274	0.1234	18.3024	0.2835	-83.3	0.498	0	0.00
635	201.5338321	-38.2482761	19.2553	0.0556	18.6345	0.0546	18.2755	0.1579	-81.9	0.220	0	0.84
636	201.6076348	-38.2535262	18.9118	0.0513	18.3807	0.0548	18.2303	0.1928	-77.3	0.130	0	0.27
637	201.5634558	-38.2527792	19.3791	0.0533	18.9948	0.0644	18.4496	0.1572	-63.6	0.197	0	0.67
641	201.5586388	-38.2528540	18.5527	0.0618	18.4820	0.1017	18.1295	0.3001	-3.7	0.216	0	0.00
643	201.6163619	-38.2518254	18.7795	0.0431	18.1558	0.0421	18.4193	0.2157	-84.5	0.142	3	0.65
646	201.5485076	-38.2524342	19.4659	0.0713	19.0891	0.0878	18.6640	0.2410	79.4	0.182	0	0.37

Figure A.140: Catalogue for B Field p1p1 (cont.)

2	201.3255413	-38.3707772	17.1640	0.0149	16.7146	0.0163	16.3432	0.0465	-61.9	0.378	0	0.43
8	201.4428238	-38.3733909	17.7176	0.0351	17.3746	0.0439	16.8329	0.1099	-89.6	0.742	18	0.00
9	201.4409802	-38.3741451	16.4498	0.0117	15.7946	0.0107	15.0460	0.0217	-13.6	0.149	18	0.03
11	201.4379647	-38.3734708	18.3039	0.0470	17.8116	0.0513	17.1643	0.1166	-87.0	0.277	0	0.00
12	201.3859746	-38.3732959	19.2146	0.0582	18.6863	0.0610	18.1269	0.1494	-79.0	0.357	0	0.08
14	201.4488916	-38.3738108	19.5580	0.0806	18.6861	0.0622	17.6145	0.0953	80.4	0.366	0	0.34
15	201.3411752	-38.3741534	16.7516	0.0099	16.4049	0.0115	16.3008	0.0411	5.9	0.209	16	0.84
17	201.4711722	-38.3745281	18.1022	0.0237	17.4268	0.0213	17.1759	0.0675	89.8	0.166	17	0.76
18	201.4801277	-38.3746740	18.0981	0.0314	17.2275	0.0241	16.4291	0.0470	-85.8	0.200	16	0.01
20	201.3504249	-38.3745542	18.1069	0.0217	17.6717	0.0239	17.8336	0.1106	-89.7	0.172	24	0.88
21	201.4072029	-38.3747813	17.5251	0.0167	17.0087	0.0171	16.7869	0.0555	-4.8	0.217	24	0.02
22	201.3333259	-38.3746774	18.9176	0.0367	18.4863	0.0411	18.1180	0.1184	-43.0	0.045	24	0.67
23	201.3995039	-38.3747713	19.6300	0.0639	18.9569	0.0586	18.0393	0.1028	78.7	0.220	16	0.49
28	201.3394897	-38.3732613	19.6605	0.0836	19.4911	0.1222	19.8691	0.7138	89.3	0.258	0	0.62
29	201.4347410	-38.3726690	19.2168	0.0495	18.2738	0.0355	17.3895	0.0637	-85.9	0.121	0	0.09
30	201.4593659	-38.3728975	19.7231	0.0631	19.0945	0.0600	18.7615	0.1796	-76.1	0.275	0	0.59
31	201.3993464	-38.3720105	19.4976	0.0683	18.7384	0.0582	19.1016	0.3320	-89.5	0.225	0	0.42
33	201.3544176	-38.3713194	19.2100	0.0625	18.6976	0.0667	18.8474	0.3141	83.4	0.306	0	0.38
34	201.3645318	-38.3710859	19.0463	0.0513	18.3996	0.0482	18.4791	0.2118	84.1	0.080	0	0.58
35	201.4554613	-38.3718458	19.6557	0.0892	19.4094	0.1218	18.9680	0.3351	44.3	0.142	0	0.65
37	201.4757960	-38.3702594	18.7055	0.0386	17.9667	0.0332	17.9988	0.1382	89.6	0.223	0	0.63
38	201.4016332	-38.3713300	19.6598	0.0831	19.0308	0.0799	19.3220	0.4291	-80.1	0.025	0	0.64
39	201.4322219	-38.3708754	19.2075	0.0603	18.6649	0.0625	18.5820	0.2373	75.5	0.216	0	0.65
41	201.3438966	-38.3698297	18.7764	0.0457	18.2184	0.0466	18.1565	0.1799	89.2	0.218	0	0.26
43	201.4682882	-38.3691804	18.3080	0.0323	17.8539	0.0359	17.8881	0.1508	-90.0	0.189	0	0.77
44	201.3747658	-38.3697351	18.7140	0.0551	18.3457	0.0673	19.3022	0.6686	87.9	0.102	0	0.35
47	201.3583205	-38.3674036	17.2522	0.0125	16.9267	0.0148	16.8283	0.0531	-89.2	0.189	0	0.88
48	201.4012286	-38.2569326	18.5307	0.0393	17.8359	0.0353	16.9633	0.0646	-68.3	0.308	0	0.13
49	201.3850180	-38.2421866	18.8101	0.0346	17.8130	0.0235	17.0060	0.0446	31.6	0.133	27	0.88
50	201.3845525	-38.2433389	17.8433	0.0218	17.0225	0.0173	16.5047	0.0429	-89.0	0.403	18	0.04
51	201.3886856	-38.2424341	18.3907	0.0311	17.4436	0.0222	17.3265	0.0798	-25.0	0.286	24	0.33
54	201.4097867	-38.2425480	18.3826	0.0308	17.6571	0.0267	17.3666	0.0824	65.4	0.184	24	0.01
55	201.4444355	-38.2425561	19.4304	0.0708	18.7584	0.0654	19.6730	0.6221	85.5	0.631	16	0.51
56	201.4264770	-38.2427674	19.4252	0.0543	18.6975	0.0472	19.2807	0.3269	75.4	0.045	16	0.32
57	201.4036700	-38.2429499	18.1662	0.0363	17.7799	0.0433	17.3746	0.1224	34.8	0.201	16	0.82
58	201.4584940	-38.2430738	18.3833	0.0283	17.9506	0.0317	17.4000	0.0772	37.9	0.045	16	0.30
59	201.4059080	-38.2437973	18.4077	0.0337	17.4363	0.0236	16.6519	0.0463	-77.4	0.176	0	0.39
60	201.4643137	-38.2440728	17.8362	0.0388	17.6576	0.0564	17.6297	0.2273	-49.1	0.025	0	0.00
61	201.4429886	-38.2447599	17.8196	0.0374	17.1062	0.0334	17.3705	0.1748	-73.4	0.363	2	0.00
62	201.4548617	-38.2439080	19.6801	0.0582	19.2573	0.0663	17.8832	0.0767	45.1	0.240	0	0.26
65	201.4469475	-38.2589490	18.3430	0.0403	17.6153	0.0353	16.8926	0.0745	78.8	0.139	0	0.06
66	201.4494419	-38.2590397	19.6106	0.0786	19.0638	0.0814	19.0996	0.3457	-81.1	0.369	0	0.69
67	201.3751095	-38.2589714	19.2616	0.0714	18.7763	0.0784	17.5015	0.1001	-56.0	0.224	0	0.32
73	201.4808541	-38.2599652	19.0992	0.0726	18.5693	0.0766	18.2086	0.2268	-76.1	0.211	0	0.00
77	201.4455424	-38.2613455	19.4235	0.0797	18.8861	0.0834	20.8769	2.1475	-35.6	0.121	0	0.69
79	201.4323555	-38.2618553	18.1913	0.0352	17.3998	0.0290	16.7162	0.0632	76.2	0.153	0	0.08
83	201.3818688	-38.2624738	19.0096	0.0626	18.7187	0.0820	17.3730	0.0982	-67.7	0.253	0	0.00
89	201.4076683	-38.2643642	19.4306	0.0783	19.1497	0.1036	18.4369	0.2219	31.8	0.005	0	0.17
90	201.4805311	-38.2651504	19.5371	0.0831	18.7726	0.0707	18.0791	0.1537	-65.4	0.311	0	0.00

Figure A.141: Catalogue for B Field p0p1

94	201.3630787	-38.2663600	17.7235	0.0274	17.5329	0.0389	17.7046	0.1868	7.2	0.350	0	0.52
95	201.4472335	-38.2664252	19.3990	0.0797	18.8261	0.0808	17.7254	0.1211	-87.9	0.195	0	0.00
96	201.4509961	-38.2663556	19.8812	0.0617	19.0953	0.0507	19.5374	0.3061	75.0	0.273	0	0.60
97	201.4744727	-38.2665314	19.1599	0.0445	18.7454	0.0510	18.7933	0.2163	76.8	0.170	0	0.86
98	201.3334916	-38.2660994	19.9692	0.0666	19.4945	0.0724	18.7327	0.1464	31.2	0.020	0	0.45
101	201.3834209	-38.2670484	18.4173	0.0536	18.1072	0.0692	17.1740	0.1211	-32.8	0.221	0	0.00
104	201.4295625	-38.2676614	18.4506	0.0295	17.9120	0.0300	17.8315	0.1122	-89.0	0.243	0	0.88
108	201.3962327	-38.2681008	19.1463	0.0712	18.5300	0.0694	17.6740	0.1302	-90.0	0.291	0	0.03
109	201.4528885	-38.2682478	19.3017	0.0488	18.5490	0.0414	18.3688	0.1415	85.3	0.247	0	0.85
111	201.3750201	-38.2683813	18.8590	0.0483	18.6748	0.0691	18.3734	0.2153	-89.0	0.166	0	0.38
112	201.3856336	-38.2688635	16.8512	0.0139	16.2121	0.0129	15.7645	0.0343	-32.1	0.193	0	0.03
117	201.4490871	-38.2698854	19.0283	0.0633	18.9993	0.1053	17.8976	0.1580	81.7	0.202	0	0.00
118	201.4706907	-38.2708335	16.6752	0.0123	15.9653	0.0107	15.4293	0.0262	-16.0	0.104	0	0.02
119	201.4236436	-38.2705271	19.1356	0.0499	18.4904	0.0468	18.3353	0.1653	65.9	0.214	0	0.74
120	201.4678289	-38.2709963	19.1510	0.0735	18.1710	0.0515	17.6228	0.1278	-28.2	0.342	0	0.01
121	201.3200798	-38.2709488	18.1818	0.0253	17.7295	0.0277	17.5381	0.0936	87.8	0.186	0	0.88
123	201.3613027	-38.2711880	18.5837	0.0578	18.1935	0.0693	17.9535	0.2294	5.4	0.409	0	0.00
126	201.4362094	-38.2722177	18.3019	0.0312	17.6835	0.0298	17.4700	0.0993	5.9	0.418	0	0.05
128	201.4529810	-38.2731394	19.2179	0.0655	18.0447	0.0385	17.2674	0.0768	-57.1	0.475	0	0.01
129	201.3624980	-38.2732250	18.2758	0.0482	18.0975	0.0701	17.9022	0.2420	-84.6	0.167	0	0.00
130	201.3787458	-38.2738735	19.2420	0.0485	18.2621	0.0337	17.5623	0.0712	67.5	0.122	0	0.11
135	201.3517622	-38.2750264	17.3573	0.0160	16.7997	0.0159	16.6400	0.0547	-66.5	0.489	0	0.50
136	201.4567729	-38.2753081	17.9692	0.0300	17.1000	0.0231	16.6307	0.0609	-20.6	0.091	0	0.01
137	201.3884691	-38.2752773	18.4447	0.0460	17.7224	0.0406	16.9523	0.0821	-80.4	0.196	3	0.03
139	201.4582981	-38.2754451	18.9929	0.0643	18.2949	0.0581	17.7642	0.1468	-12.7	0.084	0	0.00
140	201.3355068	-38.2751220	19.1286	0.0645	18.9436	0.0929	18.8817	0.3620	-59.0	0.148	0	0.73
141	201.3535727	-38.2758052	18.6589	0.0341	18.1386	0.0354	17.9078	0.1157	-89.6	0.132	0	0.87
142	201.3669303	-38.2757788	19.0373	0.0511	18.0680	0.0360	17.4162	0.0803	-55.6	0.153	0	0.88
143	201.4792202	-38.2765695	18.3422	0.0276	17.8586	0.0294	17.4837	0.0841	-85.9	0.255	0	0.71
144	201.3915781	-38.2770347	17.2079	0.0152	16.4004	0.0121	15.6411	0.0240	-79.7	0.371	0	0.02
146	201.4023499	-38.2771333	19.1705	0.0611	18.7004	0.0677	18.8618	0.3225	-80.6	0.330	0	0.71
150	201.3633499	-38.2779803	17.8571	0.0354	17.1618	0.0321	16.9258	0.1059	6.7	0.210	0	0.01
152	201.4097210	-38.2783623	18.7039	0.0491	18.2860	0.0571	17.9636	0.1743	34.5	0.294	0	0.34
153	201.4743888	-38.2784271	19.5108	0.0632	18.4583	0.0413	17.6156	0.0772	87.7	0.174	0	0.08
155	201.4123299	-38.2789625	18.5079	0.0334	17.9023	0.0323	17.5033	0.0907	-85.2	0.134	0	0.84
156	201.3334649	-38.2786954	19.4809	0.0580	18.7554	0.0506	18.5529	0.1705	84.5	0.318	0	0.10
159	201.4732108	-38.2801201	19.5511	0.0725	19.1928	0.0889	18.5585	0.2041	87.8	0.263	0	0.29
161	201.3621068	-38.2821552	18.4762	0.0488	18.3322	0.0730	98.9153	99.0000	-84.3	0.329	1	0.00
162	201.4020494	-38.2824948	18.1868	0.0256	17.7316	0.0280	17.6707	0.1066	-87.6	0.192	0	0.88
163	201.4152007	-38.2824642	19.6964	0.0712	19.0071	0.0645	18.5779	0.1775	59.6	0.241	0	0.33
165	201.3415154	-38.2827503	19.4822	0.0650	18.7947	0.0590	18.2728	0.1491	-84.2	0.167	0	0.10
166	201.3211345	-38.2829001	19.3726	0.0536	18.8694	0.0570	18.5449	0.1722	83.7	0.251	0	0.42
167	201.3322235	-38.2836207	17.9541	0.0276	17.2534	0.0246	17.1637	0.0919	-73.4	0.556	0	0.25
169	201.3285497	-38.2833345	18.4162	0.0360	18.0814	0.0447	18.4036	0.2461	-87.2	0.217	0	0.70
170	201.3178717	-38.2832246	19.5647	0.0742	19.2703	0.0965	18.3520	0.1709	-48.8	0.161	16	0.49
175	201.4513886	-38.2847740	19.1948	0.0482	18.5896	0.0467	18.3992	0.1593	82.3	0.254	0	0.88
179	201.4069823	-38.2849647	19.2615	0.0676	19.1328	0.1024	19.7642	0.7555	88.8	0.155	0	0.27
180	201.3455591	-38.2851941	18.7068	0.0503	18.3161	0.0599	18.2446	0.2307	38.2	0.395	0	0.03
182	201.3562036	-38.2851715	19.6954	0.0770	19.3884	0.0989	98.9153	99.0000	-74.7	0.155	0	0.37

Figure A.142: Catalogue for B Field p0p1 (cont.)

183	201.4289299	-38.2858404	19.5967	0.0772	19.0601	0.0807	19.0454	0.3270	89.9	0.380	0	0.36
185	201.3577882	-38.2858717	19.0170	0.0482	18.4404	0.0481	18.7181	0.2531	89.1	0.256	0	0.89
187	201.3894356	-38.2867004	16.8468	0.0113	16.2972	0.0111	15.7927	0.0276	39.6	0.161	0	0.03
188	201.3321761	-38.2866166	18.3375	0.0278	17.8672	0.0301	17.8282	0.1171	88.6	0.182	0	0.77
190	201.4738298	-38.2873259	18.4912	0.0431	17.8375	0.0404	17.1803	0.0905	35.7	0.172	0	0.07
191	201.4266146	-38.2875020	19.8061	0.0878	19.6279	0.1272	21.5419	3.0569	73.1	0.130	0	0.33
192	201.3871016	-38.2875740	19.6895	0.0880	19.1869	0.0951	20.1486	0.9487	-47.6	0.054	0	0.60
193	201.4339450	-38.2883020	18.3778	0.0310	17.4909	0.0233	16.8071	0.0501	-45.2	0.238	0	0.01
194	201.3619639	-38.2882016	19.2036	0.0710	18.8193	0.0855	18.8190	0.3524	-63.1	0.385	0	0.02
195	201.4607201	-38.2886449	19.6940	0.0893	18.8823	0.0728	18.3296	0.1800	-73.4	0.124	0	0.17
196	201.3728299	-38.2886362	19.5090	0.0635	18.6055	0.0474	18.2745	0.1421	-59.0	0.287	0	0.57
199	201.4213763	-38.2898183	18.8045	0.0376	18.1396	0.0344	17.8984	0.1114	83.6	0.154	0	0.83
201	201.4811571	-38.2907789	18.9623	0.0417	18.4089	0.0422	17.8538	0.1030	-87.1	0.268	0	0.86
202	201.4051120	-38.2915556	19.1984	0.0515	18.7265	0.0565	18.6380	0.2127	-84.1	0.211	0	0.52
203	201.4341835	-38.2919018	19.5253	0.0729	18.8072	0.0645	17.9832	0.1240	80.1	0.374	0	0.12
204	201.4234425	-38.2920603	18.7935	0.0444	18.3865	0.0518	18.4663	0.2280	-88.7	0.243	0	0.80
205	201.3496059	-38.2924792	18.4266	0.0372	17.8278	0.0364	16.9076	0.0639	-79.4	0.216	0	0.10
208	201.4456836	-38.2930746	19.4151	0.0635	19.2386	0.0916	19.7350	0.5945	79.5	0.294	0	0.46
210	201.4669417	-38.2933840	19.0314	0.0540	18.2482	0.0450	18.0664	0.1553	-63.8	0.170	0	0.80
214	201.3841727	-38.2943945	19.0561	0.0561	18.5134	0.0581	18.3602	0.2068	79.4	0.340	2	0.09
215	201.4801948	-38.2946937	18.6902	0.0364	18.4099	0.0470	18.1350	0.1490	87.6	0.282	0	0.43
218	201.3260529	-38.2955629	19.4081	0.0711	18.6180	0.0590	18.1709	0.1603	27.2	0.074	0	0.73
220	201.4757424	-38.2960527	18.9158	0.0600	18.5486	0.0732	18.5848	0.3120	-81.7	0.195	0	0.42
223	201.3980092	-38.2968580	18.4289	0.0435	17.9771	0.0489	17.4898	0.1285	-88.6	0.084	0	0.00
224	201.4659577	-38.2970188	19.4490	0.0843	18.5980	0.0664	18.2023	0.1897	-8.5	0.034	0	0.02
225	201.4532160	-38.2981647	18.6494	0.0346	18.0324	0.0330	17.9691	0.1259	85.4	0.229	0	0.36
229	201.4589656	-38.2992284	18.5749	0.0420	17.6178	0.0299	16.9365	0.0650	-47.0	0.208	0	0.04
232	201.3815353	-38.2996267	19.1938	0.0679	18.7868	0.0800	18.2167	0.1950	-48.3	0.017	0	0.56
233	201.4162511	-38.3001453	19.0393	0.0522	18.3702	0.0481	18.1661	0.1627	87.3	0.147	0	0.82
234	201.4259522	-38.3002576	18.3465	0.0369	18.3167	0.0606	18.9048	0.4280	-82.3	0.211	0	0.84
236	201.3857312	-38.3002129	19.6867	0.0717	18.8650	0.0577	18.6295	0.1892	88.6	0.257	0	0.49
237	201.4480045	-38.3003980	19.4928	0.0586	18.8258	0.0539	17.9665	0.0997	1.6	0.154	0	0.06
239	201.4180318	-38.3004304	19.5799	0.0722	19.2900	0.0942	18.3706	0.1664	79.8	0.043	0	0.60
240	201.4387114	-38.3006283	19.2487	0.0539	19.1089	0.0799	18.3310	0.1605	-76.5	0.112	0	0.71
242	201.3877233	-38.3007865	18.6714	0.0376	17.7820	0.0283	16.9468	0.0530	-69.3	0.423	0	0.01
243	201.3410206	-38.3006925	18.9720	0.0410	18.4267	0.0418	18.1437	0.1307	-73.9	0.152	0	0.28
244	201.3579809	-38.3006867	19.5115	0.1032	19.2599	0.1410	98.9153	99.0000	67.3	0.274	3	0.20
246	201.4833357	-38.3012346	19.4963	0.0740	18.9365	0.0757	18.7353	0.2585	-64.1	0.344	0	0.57
253	201.4665370	-38.3023788	19.1220	0.0504	18.5957	0.0527	18.0874	0.1349	-77.9	0.153	0	0.88
256	201.4280797	-38.3026183	18.9948	0.0595	18.5202	0.0658	17.9844	0.1653	-75.1	0.139	0	0.41
257	201.3978190	-38.3034329	18.9411	0.0400	18.5022	0.0447	18.3839	0.1629	-80.3	0.277	0	0.65
260	201.3434969	-38.3032632	19.2627	0.0555	19.1734	0.0863	18.5997	0.2093	88.7	0.206	0	0.35
261	201.4129071	-38.3037131	18.6267	0.0371	17.9887	0.0349	17.4136	0.0835	-83.4	0.200	0	0.00
262	201.3734253	-38.3035556	19.5919	0.0924	19.4516	0.1393	98.9153	99.0000	-74.9	0.148	0	0.29
263	201.4147706	-38.3040786	19.5122	0.0546	18.8961	0.0524	18.3466	0.1283	-78.8	0.115	0	0.85
264	201.3691739	-38.3052823	19.5398	0.1135	18.7472	0.0947	18.2280	0.2426	-84.7	0.175	0	0.00
266	201.4353461	-38.3059827	19.4989	0.0535	18.7087	0.0439	18.4431	0.1387	-89.6	0.178	0	0.76
267	201.3684632	-38.3058540	19.1858	0.0808	18.4404	0.0702	17.9939	0.1919	59.8	0.387	0	0.00
269	201.3461993	-38.3060862	19.5918	0.0873	18.6484	0.0632	18.3935	0.2051	-71.7	0.348	0	0.10

Figure A.143: Catalogue for B Field p0p1 (cont.)

270	201.3263010	-38.3064957	19.7812	0.0791	19.3962	0.0946	18.5111	0.1725	79.6	0.373	0	0.27
271	201.3887707	-38.3072843	17.9059	0.0227	17.4232	0.0243	16.7412	0.0524	-54.4	0.045	0	0.01
274	201.3698020	-38.3080045	19.8664	0.1314	18.7766	0.0836	19.1757	0.4974	89.3	0.123	0	0.26
275	201.3786764	-38.3080441	19.6484	0.0579	19.0856	0.0582	18.2308	0.1079	-79.9	0.229	0	0.24
277	201.4235305	-38.3085156	18.9642	0.0400	18.3649	0.0388	18.0272	0.1150	-80.1	0.221	0	0.77
279	201.4021140	-38.3084838	19.1723	0.0653	18.8944	0.0863	19.0908	0.4262	89.5	0.234	0	0.17
280	201.4300359	-38.3086190	19.1024	0.0451	18.5051	0.0439	18.4562	0.1703	-62.6	0.084	0	0.78
286	201.4694752	-38.3098407	19.5084	0.0545	18.7260	0.0450	17.9857	0.0923	-87.7	0.163	0	0.51
287	201.3235710	-38.3096454	18.6367	0.0400	18.0643	0.0401	17.3875	0.0878	79.3	0.253	0	0.39
288	201.4566698	-38.3107983	17.8139	0.0208	17.1326	0.0186	16.3858	0.0375	65.4	0.170	3	0.22
291	201.3559825	-38.3111239	18.7633	0.0579	18.5984	0.0851	18.7652	0.4097	89.7	0.205	0	0.04
292	201.4196706	-38.3114047	19.2921	0.0510	18.7464	0.0522	18.1823	0.1266	-68.1	0.274	0	0.21
293	201.3527783	-38.3113302	19.1022	0.0566	18.5040	0.0557	19.5085	0.5745	-85.7	0.165	0	0.39
294	201.3726636	-38.3115866	18.2366	0.0399	17.6100	0.0383	16.8207	0.0761	-56.6	0.222	0	0.04
295	201.4026638	-38.3120062	19.4320	0.0713	18.9358	0.0772	18.3502	0.1853	89.8	0.170	0	0.77
297	201.4528919	-38.3123910	18.8743	0.0429	18.1593	0.0378	17.4784	0.0821	-74.8	0.240	0	0.00
298	201.4711390	-38.3123939	19.3530	0.0689	19.0816	0.0916	18.4986	0.2208	79.1	0.176	0	0.71
299	201.3815770	-38.3125670	18.6744	0.0347	18.1959	0.0374	17.8058	0.1060	-89.1	0.148	0	0.82
301	201.3334513	-38.3130247	19.4765	0.0530	18.9024	0.0527	19.4258	0.3453	-68.5	0.252	0	0.75
302	201.3977546	-38.3136754	18.5790	0.0365	17.9147	0.0336	17.3364	0.0802	71.5	0.473	0	0.01
305	201.4206932	-38.3135331	19.4462	0.0766	19.0299	0.0894	18.6303	0.2550	89.2	0.175	0	0.09
306	201.4230312	-38.3139887	17.4951	0.0275	16.5478	0.0198	15.7776	0.0397	-34.4	0.216	0	0.01
307	201.3615099	-38.3137290	19.1966	0.0947	18.6685	0.1005	18.9585	0.5432	89.0	0.401	0	0.00
308	201.3496069	-38.3138382	18.7479	0.0362	18.3670	0.0427	18.1076	0.1366	85.8	0.182	0	0.83
309	201.3534590	-38.3140621	18.4304	0.0294	17.7826	0.0271	17.5561	0.0886	-86.4	0.148	0	0.81
310	201.3596266	-38.3142494	19.9721	0.1405	19.6154	0.1747	98.9153	99.0000	89.6	0.175	0	0.15
312	201.3266958	-38.3143964	19.2541	0.0541	18.9168	0.0671	18.3406	0.1619	79.0	0.209	0	0.60
313	201.3615239	-38.3149872	18.3914	0.0494	18.3180	0.0790	17.8559	0.2134	80.5	0.774	2	0.00
315	201.4191226	-38.3153530	18.1449	0.0262	17.5114	0.0245	17.6138	0.1085	88.9	0.197	3	0.86
316	201.4180815	-38.3157011	18.0499	0.0263	17.6191	0.0296	17.5199	0.1096	84.9	0.146	3	0.79
317	201.4616362	-38.3158185	18.0099	0.0368	17.1461	0.0286	16.6747	0.0757	-81.6	0.271	0	0.03
318	201.4799733	-38.3159076	19.5606	0.0808	19.2227	0.1013	20.2723	1.0965	83.1	0.259	0	0.28
319	201.3195510	-38.3156749	19.1103	0.0595	18.5498	0.0607	18.4717	0.2320	-45.1	0.480	0	0.00
320	201.4432510	-38.3165869	18.3091	0.0482	18.3421	0.0850	17.8192	0.2174	76.4	0.407	0	0.00
325	201.3643082	-38.3172171	18.3958	0.0354	17.9525	0.0398	18.0944	0.1852	-82.2	0.164	0	0.80
326	201.4613265	-38.3173920	19.0332	0.0727	18.0883	0.0526	17.2753	0.1025	61.1	0.333	0	0.03
327	201.3228413	-38.3173454	17.9305	0.0224	17.5519	0.0262	17.1091	0.0704	-60.2	0.145	0	0.45
329	201.4656946	-38.3176445	19.5009	0.0717	19.1542	0.0889	18.7524	0.2527	-68.7	0.295	0	0.34
332	201.3617069	-38.3186530	18.3530	0.0549	17.8088	0.0573	17.7376	0.2214	-75.9	0.569	2	0.00
334	201.4758424	-38.3181567	18.9989	0.0553	18.3582	0.0525	18.1143	0.1717	-66.7	0.240	0	0.62
335	201.4457572	-38.3184955	19.0298	0.0677	18.5828	0.0770	17.9363	0.1752	-21.7	0.079	0	0.05
336	201.4473159	-38.3192229	17.3268	0.0165	16.8087	0.0170	16.6883	0.0609	-77.6	0.437	0	0.03
337	201.4653225	-38.3197729	17.3443	0.0193	16.8100	0.0199	16.4378	0.0572	-58.1	0.462	0	0.71
338	201.3536182	-38.3192244	19.8814	0.0590	19.3323	0.0596	20.3304	0.6018	88.4	0.205	0	0.56
340	201.3811889	-38.3196737	18.6155	0.0573	18.0083	0.0564	17.7866	0.1894	-63.5	0.205	0	0.00
343	201.4613711	-38.3205961	18.0639	0.0358	17.1630	0.0269	16.5671	0.0634	-82.8	0.207	0	0.03
344	201.4764158	-38.3215223	16.7747	0.0103	16.2234	0.0100	15.9881	0.0317	68.1	0.375	2	0.29
345	201.4750619	-38.3213324	18.0966	0.0263	17.5998	0.0279	17.3593	0.0907	-80.3	0.166	3	0.87
346	201.4493922	-38.3212154	19.6378	0.0722	18.9726	0.0669	19.1583	0.3246	-89.3	0.354	0	0.21

Figure A.144: Catalogue for B Field p0p1 (cont.)

348	201.4620095	-38.3216686	19.7137	0.1011	18.6418	0.0653	17.8322	0.1274	47.8	0.154	0	0.49
349	201.4734390	-38.3221092	18.3360	0.0313	17.8914	0.0349	18.1800	0.1852	42.3	0.377	0	0.02
351	201.3751146	-38.3217044	19.2305	0.0501	18.3840	0.0392	17.6622	0.0817	86.2	0.121	0	0.12
353	201.4251795	-38.3223789	19.3959	0.0684	18.6566	0.0594	18.5683	0.2241	78.4	0.221	0	0.48
354	201.3772810	-38.3228512	18.5961	0.0348	17.7057	0.0261	17.0541	0.0577	-76.9	0.235	0	0.01
355	201.3401960	-38.3226601	18.9773	0.0504	17.9816	0.0347	17.2016	0.0688	-78.4	0.096	0	0.09
357	201.4411181	-38.3232407	19.8844	0.0821	19.1498	0.0715	18.8577	0.2236	-50.8	0.134	0	0.32
358	201.3873445	-38.3234987	19.3171	0.0478	18.7471	0.0477	18.7432	0.1922	-80.6	0.216	0	0.86
359	201.4229441	-38.3241260	18.7661	0.0375	17.9925	0.0312	17.3925	0.0726	88.5	0.128	0	0.25
360	201.4842485	-38.3244616	19.2422	0.0738	18.8268	0.0864	18.3304	0.2256	79.8	0.141	0	0.00
361	201.4790366	-38.3246515	19.7114	0.0786	18.7422	0.0555	18.0885	0.1242	-83.9	0.261	0	0.51
362	201.4640293	-38.3251095	19.5714	0.0864	18.9797	0.0862	19.7946	0.7509	89.0	0.315	0	0.51
363	201.3648255	-38.3254147	18.2440	0.0373	17.5883	0.0349	17.0545	0.0873	-33.4	0.274	0	0.04
364	201.4002932	-38.3255058	18.3550	0.0270	17.8217	0.0275	17.4722	0.0803	-83.8	0.229	0	0.75
365	201.3463096	-38.3255213	18.5319	0.0332	17.7891	0.0283	17.0898	0.0601	-81.9	0.219	0	0.77
366	201.3549646	-38.3255332	18.7356	0.0362	18.0494	0.0325	18.2017	0.1507	-77.7	0.194	0	0.85
367	201.3803131	-38.3257404	18.4735	0.0401	17.8668	0.0391	17.0255	0.0739	-63.8	0.102	0	0.13
369	201.3359202	-38.3259371	19.4456	0.0697	18.7699	0.0641	17.9121	0.1195	-75.9	0.361	0	0.06
371	201.3839405	-38.3266992	19.7178	0.0685	19.3054	0.0794	19.5614	0.4114	85.2	0.019	0	0.62
372	201.4744733	-38.3278778	19.7874	0.0802	19.4973	0.1046	18.9490	0.2599	-81.4	0.354	0	0.60
373	201.3430929	-38.3284108	18.6186	0.0345	18.2810	0.0423	17.8684	0.1179	88.8	0.201	0	0.61
374	201.3532528	-38.3285700	19.3818	0.0723	18.5694	0.0588	17.8479	0.1243	89.3	0.204	0	0.61
377	201.3424594	-38.3304462	19.1584	0.0521	18.7509	0.0606	19.3718	0.4389	-89.8	0.179	0	0.72
378	201.3474748	-38.3304074	19.5356	0.0690	19.1078	0.0793	18.3369	0.1603	90.0	0.395	0	0.40
379	201.3219770	-38.3305840	19.0237	0.0429	18.5076	0.0450	18.8174	0.2425	-72.1	0.334	0	0.09
380	201.3381576	-38.3310994	18.0932	0.0316	17.3715	0.0277	16.5969	0.0553	-81.0	0.109	0	0.01
381	201.3234617	-38.3312359	18.3319	0.0377	18.0701	0.0502	17.8841	0.1739	85.2	0.264	0	0.18
384	201.3918743	-38.3319367	19.2535	0.0464	18.6406	0.0445	18.2370	0.1243	67.0	0.043	0	0.88
386	201.3904130	-38.3322822	19.5519	0.0622	19.2634	0.0806	19.2451	0.3248	-81.5	0.365	0	0.43
389	201.4848205	-38.3330720	18.4610	0.0398	17.7624	0.0357	17.2099	0.0878	62.3	0.171	16	0.08
391	201.3738135	-38.3328062	19.2056	0.0670	18.6951	0.0717	18.7091	0.2989	36.8	0.159	3	0.67
392	201.3733220	-38.3332762	18.6194	0.0509	18.0709	0.0526	17.3022	0.1068	69.3	0.291	2	0.37
393	201.4742130	-38.3330512	19.2974	0.0785	18.6036	0.0714	18.1386	0.1916	-66.2	0.344	0	0.00
398	201.3589508	-38.3342734	18.4248	0.0367	18.1381	0.0477	18.5987	0.2981	77.3	0.254	0	0.18
399	201.4681039	-38.3344106	19.4389	0.0618	19.0833	0.0755	18.5809	0.1951	-87.5	0.157	0	0.70
404	201.3909778	-38.3363779	17.9198	0.0239	17.4647	0.0263	17.2780	0.0897	48.8	0.468	0	0.21
406	201.3395691	-38.3372203	19.4656	0.0782	18.4399	0.0526	17.5020	0.0909	87.0	0.043	0	0.12
407	201.3853926	-38.3377091	18.9834	0.0747	18.1035	0.0574	17.1657	0.0999	-30.9	0.322	1	0.00
408	201.4760344	-38.3381153	18.7336	0.0405	18.2187	0.0427	17.9346	0.1340	-88.9	0.193	0	0.29
409	201.4842978	-38.3380585	19.0999	0.0518	18.9517	0.0764	18.2064	0.1582	68.3	0.114	0	0.06
410	201.3430130	-38.3376695	19.2731	0.0686	19.0551	0.0958	18.8369	0.3232	-89.2	0.215	0	0.78
411	201.4359133	-38.3382171	19.4045	0.0502	18.8289	0.0498	18.3629	0.1316	88.5	0.194	0	0.44
416	201.3347533	-38.3407066	17.8447	0.0318	17.1579	0.0289	16.2536	0.0516	-54.7	0.100	0	0.02
418	201.4054115	-38.3420413	16.3482	0.0102	15.6729	0.0091	15.1246	0.0219	36.7	0.242	0	0.03
421	201.4281343	-38.3420112	18.5653	0.0418	17.7566	0.0340	17.2349	0.0857	-89.4	0.159	0	0.04
422	201.4664799	-38.3422261	19.0468	0.0459	18.4811	0.0462	18.1026	0.1327	-79.5	0.195	0	0.54
424	201.3209815	-38.3427350	18.8994	0.0390	18.2046	0.0348	18.1636	0.1349	-78.9	0.279	0	0.73
426	201.3366205	-38.3432497	19.6755	0.0916	18.6176	0.0598	17.6838	0.1041	73.8	0.298	0	0.17
427	201.4659342	-38.3437707	19.0007	0.0538	18.7609	0.0733	19.1234	0.4207	81.9	0.207	0	0.79

Figure A.145: Catalogue for B Field p0p1 (cont.)

429	201.4630759	-38.3446608	17.4987	0.0169	17.1453	0.0200	17.0585	0.0740	-84.5	0.197	3	0.88
431	201.3288117	-38.3444835	18.5229	0.0312	17.9699	0.0314	17.9312	0.1223	-86.8	0.203	0	0.80
433	201.3736781	-38.3444327	19.5620	0.0618	18.8636	0.0553	18.6611	0.1867	-89.8	0.213	0	0.76
434	201.4401285	-38.3448430	18.6874	0.0399	18.5383	0.0584	18.1427	0.1666	-89.2	0.262	0	0.75
435	201.4111197	-38.3447455	19.0518	0.0571	18.6069	0.0647	19.4716	0.5889	-89.5	0.219	0	0.84
439	201.3585007	-38.3450421	18.9897	0.0615	18.8561	0.0929	19.0515	0.4592	81.4	0.211	0	0.33
440	201.3841290	-38.3450752	19.3344	0.0687	18.6687	0.0638	18.6989	0.2692	-53.8	0.152	0	0.59
441	201.4087713	-38.3453019	18.7092	0.0523	18.0316	0.0481	17.9652	0.1855	89.0	0.084	3	0.02
444	201.3519022	-38.3455295	19.5682	0.0761	19.3582	0.1070	18.9298	0.2975	-73.6	0.280	0	0.20
445	201.4491110	-38.3459659	18.9620	0.0407	18.5751	0.0478	18.2927	0.1498	-77.4	0.075	0	0.84
446	201.4556364	-38.3459960	19.4988	0.0716	19.3636	0.1075	19.1680	0.3703	-82.8	0.051	0	0.67
448	201.3199021	-38.3461979	19.4888	0.0750	18.7183	0.0634	18.6938	0.2541	65.3	0.198	0	0.71
450	201.4089898	-38.3475311	19.3420	0.0837	18.3379	0.0575	17.4732	0.1067	-89.5	0.251	0	0.13
453	201.3799373	-38.3478867	18.4538	0.0406	18.3525	0.0627	18.2539	0.2358	74.6	0.040	0	0.06
455	201.3839854	-38.3480285	19.1487	0.0687	18.6812	0.0766	17.6628	0.1238	-46.8	0.131	0	0.44
457	201.3850897	-38.3485526	19.5268	0.0780	19.2330	0.1017	18.6375	0.2425	-89.8	0.271	0	0.56
460	201.4143462	-38.3498585	19.1749	0.0520	18.4803	0.0467	18.1237	0.1369	72.0	0.153	0	0.46
468	201.4150348	-38.3511712	18.3963	0.0324	17.8825	0.0341	17.6713	0.1139	-76.6	0.180	0	0.07
469	201.4697915	-38.3511963	18.9565	0.0407	18.5243	0.0459	18.5751	0.1955	-77.8	0.086	0	0.82
472	201.3363721	-38.3519088	18.0722	0.0277	17.6364	0.0311	17.7640	0.1422	-90.0	0.249	3	0.33
474	201.4095308	-38.3522242	18.6230	0.0427	18.1142	0.0455	18.0895	0.1820	86.4	0.185	0	0.41
475	201.4824906	-38.3524690	18.4987	0.0310	17.9217	0.0306	17.9813	0.1301	84.5	0.235	3	0.67
476	201.4832668	-38.3533451	17.8886	0.0206	17.4135	0.0220	17.3305	0.0817	-75.8	0.256	3	0.49
477	201.4158213	-38.3524658	18.4189	0.0301	18.0406	0.0354	17.8709	0.1229	-78.9	0.104	0	0.79
478	201.3310714	-38.3521712	19.2456	0.0724	18.2547	0.0502	17.5337	0.1060	-67.2	0.428	0	0.04
480	201.4050650	-38.3525382	18.6472	0.0444	18.0824	0.0450	17.8914	0.1547	80.7	0.225	0	0.68
481	201.3947307	-38.3528168	19.7613	0.0915	19.4070	0.1131	22.7128	9.7884	-70.4	0.310	0	0.27
482	201.3451770	-38.3529320	18.2680	0.0307	17.8307	0.0346	17.7531	0.1310	-86.6	0.227	0	0.63
485	201.3977742	-38.3542047	16.1557	0.0080	15.5205	0.0073	15.0181	0.0182	-88.3	0.089	0	0.03
486	201.4188563	-38.3536180	18.7112	0.0476	17.9616	0.0409	17.7721	0.1403	-59.1	0.120	0	0.02
488	201.4090727	-38.3537127	18.4902	0.0481	17.8711	0.0467	18.1475	0.2471	89.6	0.173	0	0.03
490	201.3465911	-38.3536294	18.7854	0.0370	18.1929	0.0361	17.8136	0.1031	-89.6	0.157	0	0.60
491	201.3517243	-38.3537781	19.7461	0.0637	19.2484	0.0681	19.1802	0.2606	89.3	0.158	0	0.71
493	201.4641615	-38.3546541	18.2364	0.0251	17.6623	0.0246	17.6278	0.0955	80.3	0.181	0	0.85
494	201.3887533	-38.3543994	19.2522	0.0599	18.9426	0.0765	18.9219	0.3085	-74.3	0.115	0	0.67
495	201.3946474	-38.3547135	19.4089	0.0857	18.7039	0.0772	18.5058	0.2651	83.5	0.166	0	0.01
497	201.4450061	-38.3587343	16.9698	0.0226	16.5022	0.0251	16.2781	0.0839	-63.1	0.510	3	0.02
498	201.3728632	-38.3556660	18.2662	0.0397	17.2974	0.0280	16.8819	0.0779	-86.7	0.410	0	0.01
499	201.3863308	-38.3555329	18.5092	0.0308	18.1529	0.0370	17.8588	0.1144	-77.3	0.092	0	0.87
500	201.3990511	-38.3560894	18.8621	0.0615	18.1291	0.0539	17.7434	0.1554	65.6	0.110	0	0.27
501	201.4030999	-38.3562462	18.8367	0.0395	18.0466	0.0324	17.3381	0.0683	86.2	0.229	0	0.07
502	201.4706928	-38.3566331	19.2231	0.0459	18.6119	0.0441	18.3540	0.1409	83.6	0.121	0	0.52
509	201.3512092	-38.3576142	18.4702	0.0324	17.6262	0.0253	17.0761	0.0613	-38.7	0.175	0	0.18
511	201.3885131	-38.3581034	19.3250	0.0514	18.5893	0.0443	18.1720	0.1224	89.1	0.173	0	0.22
512	201.4271357	-38.3585148	18.4787	0.0328	18.0892	0.0385	18.0062	0.1450	-76.9	0.380	0	0.04
513	201.3191772	-38.3585841	18.6728	0.0346	18.5627	0.0520	18.0908	0.1377	87.7	0.291	0	0.84
514	201.4833784	-38.3588273	19.6553	0.0753	18.9120	0.0651	19.0286	0.2964	79.8	0.255	0	0.64
515	201.3221998	-38.3592396	19.1825	0.0546	18.3019	0.0416	17.8177	0.1084	-79.2	0.328	2	0.15
516	201.4224699	-38.3590469	18.8368	0.0444	18.0824	0.0378	17.6604	0.1042	81.3	0.266	0	0.02

Figure A.146: Catalogue for B Field p0p1 (cont.)

517	201.4338108	-38.3591159	19.5680	0.0749	19.5020	0.1199	19.2894	0.4068	89.7	0.249	0	0.68
518	201.4390891	-38.3593403	19.4433	0.0773	19.7559	0.1758	18.9140	0.3354	79.3	0.247	0	0.30
520	201.4144256	-38.3597066	18.2428	0.0276	17.5390	0.0243	17.1849	0.0707	-89.1	0.083	0	0.03
521	201.4273817	-38.3602442	19.0645	0.0578	18.1971	0.0447	17.4093	0.0886	81.5	0.196	0	0.06
522	201.3270807	-38.3601054	18.5586	0.0383	18.1071	0.0427	17.7644	0.1274	78.3	0.183	3	0.62
523	201.3266069	-38.3609516	18.0111	0.0292	17.5806	0.0332	17.3346	0.1080	-86.5	0.292	3	0.28
525	201.4204437	-38.3603974	18.5342	0.0428	17.8718	0.0397	17.1392	0.0829	63.1	0.028	1	0.04
527	201.4215423	-38.3610253	18.8211	0.0472	18.0394	0.0393	17.3090	0.0820	87.5	0.231	0	0.21
528	201.3848694	-38.3610348	19.1382	0.0559	18.5015	0.0531	18.5156	0.2200	84.1	0.223	0	0.47
529	201.4780663	-38.3613720	19.7407	0.0723	19.2630	0.0792	18.7321	0.1993	89.7	0.261	0	0.25
530	201.3241046	-38.3613155	18.7832	0.0509	17.8485	0.0370	17.1565	0.0800	-88.0	0.337	0	0.04
532	201.4376427	-38.3621439	19.0972	0.0449	18.5148	0.0443	18.8306	0.2402	-85.9	0.083	0	0.34
534	201.3569484	-38.3622522	17.7168	0.0209	17.0332	0.0187	16.3697	0.0409	-48.4	0.130	0	0.02
536	201.3638916	-38.3628833	18.8577	0.0454	18.1659	0.0409	18.1341	0.1617	-85.8	0.231	0	0.08
538	201.4303986	-38.3639871	18.8950	0.0384	18.4310	0.0420	18.2313	0.1416	-85.8	0.202	0	0.07
539	201.3383109	-38.3638379	19.7132	0.0899	19.3747	0.1128	19.3578	0.4583	89.7	0.269	0	0.65
540	201.4400847	-38.3642393	19.5984	0.0803	18.9301	0.0745	18.2075	0.1575	83.9	0.392	0	0.34
541	201.3309529	-38.3642494	19.6510	0.0587	19.1486	0.0623	19.2451	0.2766	88.7	0.201	0	0.37
542	201.4421674	-38.3651467	17.9972	0.0389	17.3456	0.0367	17.5770	0.1863	63.7	0.469	0	0.01
547	201.4030457	-38.3663663	17.9548	0.0216	17.3077	0.0198	16.8987	0.0544	87.8	0.165	0	0.18
548	201.3813629	-38.2436113	17.9432	0.0274	17.6977	0.0368	17.3324	0.1075	-88.9	0.247	16	0.01
549	201.4271145	-38.3667608	18.5751	0.0318	17.9739	0.0307	18.0035	0.1271	-89.3	0.191	0	0.89
550	201.4491614	-38.2433522	18.8713	0.0450	17.9742	0.0337	98.9153	99.0000	73.2	0.051	0	0.17
551	201.4580637	-38.3669875	19.1022	0.0642	18.2791	0.0518	18.4600	0.2508	-84.0	0.190	0	0.34
552	201.3739890	-38.3669750	19.7388	0.0768	19.5539	0.1101	20.1890	0.8127	-89.2	0.263	0	0.53
556	201.4590765	-38.3677333	19.0603	0.0672	18.2040	0.0527	17.6976	0.1358	89.3	0.166	0	0.00
557	201.3817385	-38.2464826	18.6967	0.0426	18.3003	0.0501	18.0464	0.1626	-80.1	0.136	0	0.57
558	201.3991537	-38.2444516	18.8173	0.0591	19.7612	0.2397	18.5146	0.3158	-54.1	0.313	0	0.41
559	201.4798399	-38.3682616	19.1460	0.0545	18.7379	0.0636	18.2465	0.1659	83.8	0.268	0	0.49
561	201.4513533	-38.2448238	19.3330	0.0573	18.9877	0.0707	18.0664	0.1243	86.7	0.284	0	0.82
562	201.4620359	-38.2584488	19.3310	0.0586	18.8463	0.0638	18.5198	0.1933	-83.5	0.082	0	0.73
563	201.3875475	-38.2441603	18.2853	0.0268	17.6917	0.0260	17.2395	0.0690	-81.8	0.095	0	0.46
564	201.4802634	-38.2486475	18.6680	0.0556	19.0473	0.1344	18.3036	0.2808	80.3	0.288	0	0.00
565	201.4507836	-38.2580645	19.7031	0.0811	19.1202	0.0812	18.4078	0.1733	-47.9	0.151	0	0.63
566	201.4428825	-38.2574621	19.4387	0.0689	18.5729	0.0534	18.2205	0.1577	-52.5	0.024	0	0.73
569	201.3754815	-38.2578988	19.7353	0.0689	19.1557	0.0688	19.5882	0.4176	79.7	0.246	0	0.57
572	201.4732545	-38.2576716	19.4127	0.0520	19.2000	0.0716	18.9496	0.2322	-47.1	0.148	0	0.71
575	201.3901684	-38.2496735	19.2865	0.0599	18.3662	0.0441	17.5861	0.0877	64.2	0.194	0	0.59
576	201.4625280	-38.2462095	18.8974	0.0481	18.6867	0.0671	18.1590	0.1698	-47.0	0.116	0	0.17
577	201.4677068	-38.2505653	18.2466	0.0251	17.7531	0.0264	17.4738	0.0821	-79.4	0.141	0	0.87
578	201.4343159	-38.2469653	19.1743	0.0467	18.8108	0.0562	18.9016	0.2488	-66.2	0.219	0	0.80
581	201.4822761	-38.2515281	17.1119	0.0138	16.3415	0.0113	15.6334	0.0233	72.9	0.097	0	0.03
584	201.4055856	-38.2526979	18.4011	0.0301	17.8373	0.0301	17.7180	0.1089	-31.4	0.145	0	0.29
586	201.4305574	-38.2530405	19.4420	0.0627	19.0001	0.0710	18.7406	0.2291	-87.5	0.185	0	0.07
587	201.4746681	-38.2570318	19.8254	0.0597	19.3370	0.0639	19.3376	0.2590	-74.2	0.284	0	0.67
588	201.4642031	-38.2531185	19.3261	0.0702	18.7010	0.0677	17.8132	0.1231	-84.9	0.166	0	0.00
594	201.4540079	-38.2550789	17.7428	0.0196	16.9171	0.0154	16.1884	0.0313	-88.3	0.097	0	0.02
596	201.4299252	-38.2560827	19.2874	0.0493	18.6477	0.0463	18.6977	0.1965	-74.1	0.095	0	0.79
597	201.4280954	-38.2563907	18.6303	0.0392	18.2217	0.0455	17.8019	0.1264	-42.0	0.489	0	0.01

Figure A.147: Catalogue for B Field p0p1 (cont.)

599	201.4209630	-38.2573183	18.8732	0.0414	18.0352	0.0326	17.7198	0.0985	78.3	0.244	3	0.49
600	201.4789277	-38.2566619	19.3975	0.0748	18.5283	0.0579	17.9781	0.1432	-45.3	0.109	0	0.26

Figure A.148: Catalogue for B Field p0p1 (cont.)

5	201.2847099	-38.3739025	17.2717	0.0248	17.3786	0.0458	17.1761	0.1512	47.5	0.074	0	0.14
7	201.3334395	-38.3746201	19.1105	0.0512	18.6053	0.0537	18.2560	0.1536	89.6	0.244	0	0.32
8	201.2919942	-38.3751354	18.8261	0.0684	17.9542	0.0521	18.0498	0.2259	-64.4	0.566	16	0.00
9	201.1758554	-38.3750901	18.2872	0.0299	17.3351	0.0209	16.4420	0.0357	44.8	0.034	16	0.01
10	201.2843293	-38.3752647	18.8966	0.0615	19.1007	0.1246	18.8342	0.3892	-41.6	0.261	0	0.04
11	201.2018728	-38.3756548	19.0673	0.0442	18.5621	0.0461	17.9599	0.1039	79.0	0.158	16	0.86
12	201.1973293	-38.3758125	18.7443	0.0335	18.1685	0.0325	17.9924	0.1071	-67.8	0.058	24	0.73
13	201.2981616	-38.3760850	19.9308	0.0777	19.4294	0.0820	18.7796	0.1781	-14.7	0.255	16	0.57
14	201.1873315	-38.3759545	19.9708	0.0822	20.1278	0.1580	21.1324	1.5845	-8.5	0.395	24	0.57
15	201.3141655	-38.3739695	18.7742	0.0583	18.1528	0.0557	17.7844	0.1574	-86.5	0.254	0	0.56
17	201.1816497	-38.3734422	19.3017	0.0582	18.8202	0.0626	18.8349	0.2503	85.9	0.305	0	0.25
18	201.2938896	-38.3743570	19.7180	0.0657	18.9675	0.0553	18.8932	0.2022	-74.5	0.245	0	0.64
21	201.2284523	-38.3710467	16.1165	0.0086	15.3396	0.0069	14.6102	0.0134	-11.8	0.339	2	0.03
22	201.2509438	-38.3728233	18.7268	0.0420	18.0201	0.0367	18.1381	0.1604	-88.1	0.133	0	0.76
24	201.1855919	-38.3722562	19.2304	0.0510	18.7882	0.0564	19.0491	0.2822	89.5	0.242	0	0.37
25	201.3256293	-38.3706557	17.2994	0.0156	16.8397	0.0166	16.5795	0.0504	-56.6	0.360	0	0.30
27	201.2319374	-38.3695348	17.6612	0.0341	16.9657	0.0304	16.5240	0.0804	-78.5	0.419	0	0.01
28	201.2297859	-38.3704614	17.4577	0.0206	16.7329	0.0176	15.8485	0.0305	83.6	0.168	3	0.04
29	201.2384441	-38.3713632	18.7077	0.0519	17.8985	0.0417	17.0323	0.0744	65.0	0.241	0	0.01
30	201.2570112	-38.3703843	18.0840	0.0349	17.4405	0.0325	17.1018	0.0938	49.4	0.348	3	0.00
31	201.2606533	-38.3707196	18.4786	0.0319	17.9345	0.0320	18.1253	0.1485	89.3	0.219	0	0.74
32	201.3058871	-38.3708848	18.2118	0.0483	17.3607	0.0374	16.6571	0.0778	-87.4	0.140	0	0.01
34	201.2903883	-38.3716880	19.8476	0.0970	19.4099	0.1095	19.3305	0.4048	80.7	0.250	0	0.41
36	201.2044761	-38.3684216	15.9193	0.0060	15.5432	0.0065	15.3042	0.0193	1.8	0.284	0	0.66
37	201.3043030	-38.3701773	18.2002	0.0445	17.2212	0.0307	16.6371	0.0709	-87.5	0.033	0	0.01
39	201.3142853	-38.3705899	19.7350	0.0965	19.0525	0.0872	18.3254	0.1776	69.1	0.279	0	0.01
40	201.2241620	-38.3703519	19.7053	0.1026	18.7421	0.0719	17.8458	0.1253	88.0	0.267	0	0.01
43	201.1717424	-38.3683857	19.2213	0.0682	18.4679	0.0577	19.2293	0.4597	-80.3	0.309	16	0.09
44	201.2468467	-38.3685642	18.9466	0.0443	18.7571	0.0616	18.8756	0.2713	78.5	0.158	0	0.71
45	201.1817625	-38.3684789	19.4346	0.0788	18.9684	0.0866	18.9267	0.3311	76.0	0.323	0	0.20
48	201.2197521	-38.2425040	18.9827	0.0636	17.8317	0.0376	17.2183	0.0844	44.8	0.383	24	0.36
51	201.3053899	-38.2426475	19.8386	0.0652	19.1940	0.0601	18.7875	0.1621	-75.7	0.113	24	0.30
52	201.2402504	-38.2425166	20.1137	0.0726	21.6790	0.4982	21.3773	1.5094	-88.1	0.215	16	0.51
53	201.2507237	-38.2427601	19.1092	0.0530	98.9280	99.0000	98.9160	99.0000	-18.6	0.616	16	0.01
54	201.2703384	-38.2443292	16.6273	0.0110	16.1000	0.0110	16.1915	0.0457	78.5	0.304	16	0.83
55	201.3306250	-38.2449447	18.7207	0.0678	19.2407	0.1848	18.6027	0.4112	34.7	0.402	0	0.00
56	201.2472611	-38.2448697	18.8385	0.0414	17.9303	0.0302	17.3083	0.0664	-71.4	0.154	0	0.15
57	201.2392080	-38.2457302	16.7846	0.0167	16.1946	0.0162	15.4197	0.0313	-55.7	0.451	0	0.02
58	201.3241144	-38.2451448	18.9129	0.0446	18.1129	0.0359	16.9184	0.0470	43.4	0.276	0	0.02
61	201.3074041	-38.2560980	19.7541	0.0643	19.5605	0.0891	20.3941	0.7573	-45.7	0.137	0	0.40
62	201.3099570	-38.2562531	19.5428	0.0694	18.8583	0.0623	18.1720	0.1308	82.2	0.387	0	0.13
63	201.2329944	-38.2560709	19.3818	0.0808	18.9947	0.0956	18.0114	0.1542	41.1	0.233	0	0.49
64	201.2890938	-38.2564139	19.7784	0.0928	19.2833	0.0993	20.5151	1.2260	-43.8	0.142	0	0.33
66	201.3180786	-38.2584486	14.3866	0.0028	13.7500	0.0024	13.3400	0.0059	56.7	0.062	3	0.03
68	201.2213857	-38.2568958	19.1186	0.0934	18.9286	0.1331	22.8327	19.3801	-80.2	0.186	0	0.03
69	201.2312199	-38.2570986	18.1518	0.0381	17.6045	0.0387	16.8720	0.0783	-31.2	0.115	0	0.01
70	201.2329668	-38.2570732	18.4286	0.0377	18.0150	0.0430	17.5602	0.1117	-83.1	0.132	1	0.75
71	201.2707844	-38.2574371	18.6690	0.0501	18.1933	0.0544	17.7086	0.1383	-83.1	0.205	0	0.22
73	201.2946683	-38.2581720	19.3138	0.0533	18.9409	0.0629	18.5795	0.1778	-82.6	0.077	0	0.76

Figure A.149: Catalogue for B Field m1p1

75	201.2683011	-38.2586930	19.5391	0.0839	19.5432	0.1418	18.7745	0.2789	-69.0	0.260	0	0.35
77	201.3230447	-38.2591148	20.0325	0.1268	18.8319	0.0717	18.5355	0.2165	-73.7	0.283	0	0.31
79	201.2549477	-38.2598195	19.8040	0.0944	19.4918	0.1194	18.5540	0.2007	-73.0	0.104	0	0.42
80	201.2725987	-38.2600802	18.4838	0.0326	18.0376	0.0357	17.7772	0.1101	-88.9	0.149	0	0.85
83	201.3104247	-38.2599908	20.0819	0.1094	20.0163	0.1735	19.4833	0.4238	89.7	0.266	0	0.38
86	201.2844843	-38.2622634	18.1521	0.0398	17.6851	0.0436	17.6352	0.1652	-67.0	0.291	3	0.83
88	201.2672444	-38.2624479	19.4320	0.0621	19.2434	0.0870	18.8417	0.2385	85.0	0.108	0	0.51
90	201.2030655	-38.2626655	17.7263	0.0212	16.8814	0.0163	16.1743	0.0328	-3.2	0.221	0	0.06
91	201.2246763	-38.2624505	18.4163	0.0360	17.9763	0.0400	17.7189	0.1243	76.7	0.139	0	0.87
92	201.1765430	-38.2627498	18.4153	0.0495	18.3222	0.0765	18.6798	0.4239	-29.7	0.496	0	0.01
93	201.1886081	-38.2627671	18.8461	0.0622	18.7678	0.0975	18.8177	0.4071	82.2	0.641	2	0.05
94	201.1885205	-38.2643935	18.2523	0.0456	17.8477	0.0531	17.8205	0.2058	88.1	0.421	2	0.00
95	201.2003905	-38.2630228	18.3254	0.0368	17.7791	0.0373	17.9532	0.1726	-81.4	0.189	0	0.42
96	201.3073930	-38.2636508	17.7324	0.0248	17.0639	0.0224	16.3569	0.0458	-84.2	0.088	2	0.00
97	201.3060098	-38.2640829	18.9073	0.0568	18.5781	0.0705	17.9568	0.1582	4.1	0.018	3	0.29
99	201.3001910	-38.2634234	18.8254	0.0405	18.2372	0.0392	18.0943	0.1348	-69.9	0.156	0	0.77
100	201.3147850	-38.2635272	19.0063	0.0796	18.2381	0.0667	18.2175	0.2606	-8.5	0.078	0	0.39
101	201.1731171	-38.2637473	17.4444	0.0228	17.3121	0.0334	17.3665	0.1389	-68.6	0.189	0	0.71
102	201.1758596	-38.2639081	17.1437	0.0192	16.8901	0.0252	16.9616	0.1061	88.5	0.164	3	0.80
103	201.1764061	-38.2648930	19.1485	0.0789	19.1626	0.1349	20.8783	2.6157	-67.9	0.316	3	0.65
105	201.2107644	-38.2637935	18.4617	0.0421	18.5161	0.0738	18.7711	0.3711	83.1	0.504	0	0.48
106	201.2309261	-38.2639789	19.7623	0.0904	18.9661	0.0736	19.3280	0.4063	79.1	0.121	0	0.70
107	201.3329794	-38.2645349	19.0973	0.0698	18.3785	0.0610	18.2019	0.2057	89.0	0.220	0	0.05
108	201.1992621	-38.2646348	18.4809	0.0458	17.5572	0.0332	16.9718	0.0764	-71.9	0.142	0	0.26
109	201.2009266	-38.2649834	17.5799	0.0245	16.8053	0.0202	16.0244	0.0386	73.9	0.082	0	0.02
110	201.1798876	-38.2650977	17.1414	0.0246	16.5153	0.0233	15.9470	0.0546	-36.6	0.332	0	0.01
111	201.2102866	-38.2648655	18.6905	0.0549	18.4507	0.0742	17.7996	0.1623	-41.8	0.146	0	0.45
112	201.2581213	-38.2652416	18.5057	0.0466	17.9917	0.0488	18.1303	0.2199	-80.6	0.144	0	0.70
113	201.2658371	-38.2654428	19.2111	0.0637	18.7078	0.0674	18.0245	0.1426	-71.3	0.122	0	0.27
114	201.2498917	-38.2655109	19.3567	0.0626	18.6591	0.0554	18.3641	0.1666	74.7	0.157	0	0.89
115	201.2204872	-38.2657438	18.0612	0.0331	17.7407	0.0412	18.2577	0.2620	81.1	0.112	0	0.71
116	201.3116315	-38.2658085	19.4904	0.0688	20.0105	0.1848	20.2171	0.8922	-88.9	0.217	0	0.67
117	201.2861285	-38.2660678	19.1985	0.0663	18.8061	0.0778	17.7357	0.1156	85.3	0.161	0	0.08
118	201.2957290	-38.2663756	17.3281	0.0168	16.5488	0.0136	15.8559	0.0278	-66.8	0.167	2	0.03
119	201.2947385	-38.2669425	18.9589	0.0455	18.3567	0.0437	18.0687	0.1316	-69.0	0.177	3	0.89
120	201.3333997	-38.2663040	19.9245	0.0873	19.1284	0.0709	19.3496	0.3427	44.2	0.131	0	0.49
124	201.2177098	-38.2668669	19.2561	0.0532	18.6818	0.0524	18.3042	0.1456	49.7	0.011	0	0.57
126	201.2026706	-38.2673257	19.8025	0.0910	19.3135	0.0978	19.4118	0.4253	79.9	0.171	0	0.09
127	201.2056527	-38.2672644	19.6878	0.1179	20.0966	0.2909	21.3266	3.6158	-48.3	0.136	0	0.25
128	201.2007229	-38.2678965	19.1161	0.0552	18.6792	0.0619	19.2262	0.4044	-89.9	0.297	0	0.28
130	201.2107134	-38.2679666	18.7090	0.0654	18.8227	0.1226	18.4248	0.3397	77.1	0.208	0	0.00
131	201.2130109	-38.2680764	18.9870	0.0457	18.4061	0.0447	18.1694	0.1410	-85.7	0.145	0	0.84
132	201.2536301	-38.2682298	19.4376	0.0850	18.6115	0.0674	17.6101	0.1067	-84.2	0.321	0	0.09
133	201.1770006	-38.2680481	19.7225	0.0945	20.6943	0.3879	18.6517	0.2372	-17.2	0.093	0	0.68
136	201.2098347	-38.2689038	18.9073	0.0657	18.8923	0.1093	18.5832	0.3281	-40.7	0.127	0	0.35
137	201.2535668	-38.2690657	19.8944	0.0912	19.0596	0.0716	18.4662	0.1640	-89.2	0.329	1	0.57
139	201.2780746	-38.2693275	19.6123	0.0876	18.8570	0.0741	18.6452	0.2418	76.2	0.279	0	0.46
140	201.2704455	-38.2696570	18.8754	0.0773	18.3502	0.0810	18.8071	0.4917	87.2	0.504	0	0.00
141	201.2437502	-38.2694944	19.9934	0.0959	19.6587	0.1186	19.3306	0.3486	74.8	0.277	0	0.59

Figure A.150: Catalogue for B Field m1p1 (cont.)

142	201.1848197	-38.2696412	19.2094	0.0802	18.6928	0.0844	18.8369	0.3839	-83.7	0.222	0	0.27
143	201.2369156	-38.2697769	19.5340	0.0602	18.7767	0.0503	19.1322	0.2731	-70.9	0.164	0	0.85
144	201.2731948	-38.2698744	19.5361	0.0771	19.0502	0.0831	19.3395	0.4302	54.6	0.097	0	0.24
146	201.2106856	-38.2703800	18.7720	0.0626	18.6143	0.0914	18.3132	0.2763	77.4	0.560	0	0.00
148	201.1738979	-38.2708740	18.9719	0.0523	18.4371	0.0537	18.5529	0.2358	83.2	0.183	0	0.88
150	201.2690137	-38.2716696	17.7723	0.0236	17.1786	0.0227	16.7174	0.0580	-81.5	0.266	0	0.15
153	201.3086126	-38.2715122	19.6323	0.0722	18.8412	0.0588	18.7199	0.2070	45.9	0.107	0	0.69
158	201.3057997	-38.2728314	19.9384	0.0962	19.3643	0.0957	19.4693	0.4184	44.8	0.042	0	0.56
159	201.2775253	-38.2729440	19.5534	0.0884	19.0667	0.0955	18.7682	0.2887	-82.0	0.034	0	0.58
160	201.2632328	-38.2736383	18.7141	0.0442	17.7036	0.0295	17.0823	0.0653	79.1	0.042	0	0.05
161	201.3011782	-38.2738108	18.1346	0.0403	17.3545	0.0333	16.5325	0.0618	85.5	0.121	0	0.02
162	201.2106415	-38.2739066	18.6782	0.0561	19.0329	0.1305	98.9160	99.0000	88.5	0.673	0	0.01
163	201.2048088	-38.2742019	19.4370	0.0888	19.3764	0.1419	18.4709	0.2463	-89.9	0.175	0	0.08
164	201.2095101	-38.2742698	19.0509	0.0678	18.7466	0.0865	17.8934	0.1572	-50.7	0.120	0	0.14
167	201.2750734	-38.2746935	19.2661	0.0824	18.4768	0.0676	17.6831	0.1296	-48.0	0.201	0	0.11
168	201.3354595	-38.2752020	19.3693	0.0564	18.9767	0.0654	18.1935	0.1258	-80.1	0.247	0	0.11
169	201.2511349	-38.2753277	18.8554	0.0422	18.6315	0.0569	18.7267	0.2449	89.3	0.178	0	0.84
170	201.1725662	-38.2754092	18.7933	0.0394	18.3780	0.0445	18.3453	0.1696	-89.6	0.192	16	0.70
172	201.2547597	-38.2758289	18.7305	0.0444	18.1895	0.0452	17.8092	0.1256	-74.1	0.153	0	0.69
173	201.2223292	-38.2764232	19.4078	0.0691	18.9020	0.0730	18.3768	0.1786	-79.3	0.185	0	0.81
174	201.1904738	-38.2766106	18.8268	0.0624	18.4699	0.0758	18.0145	0.1986	-84.4	0.191	0	0.44
177	201.2510856	-38.2768106	18.8906	0.0676	18.2263	0.0622	17.7202	0.1553	31.3	0.146	3	0.00
178	201.2504264	-38.2775538	18.5869	0.0508	17.7071	0.0383	17.2328	0.0979	72.7	0.233	2	0.05
179	201.2646694	-38.2769187	19.6939	0.0943	19.5127	0.1347	19.3326	0.4549	1.2	0.130	0	0.40
180	201.2724867	-38.2770059	19.6944	0.1114	19.3361	0.1358	19.4173	0.5842	-64.9	0.254	0	0.10
181	201.1860147	-38.2774400	19.5925	0.1012	18.5944	0.0688	18.1581	0.1829	79.5	0.391	0	0.17
182	201.3109862	-38.2776884	19.7964	0.0704	19.0664	0.0604	18.5458	0.1471	-74.4	0.204	0	0.69
183	201.2588398	-38.2777389	19.4824	0.0650	18.8701	0.0621	18.4321	0.1637	73.4	0.065	0	0.43
184	201.1798900	-38.2778354	18.4623	0.0317	18.0398	0.0355	17.6784	0.0996	88.5	0.138	0	0.63
186	201.2012432	-38.2780222	18.3472	0.0328	17.4468	0.0241	16.7078	0.0476	-63.4	0.122	0	0.02
187	201.2815306	-38.2783042	18.9335	0.0431	18.4870	0.0475	17.9808	0.1172	-77.3	0.146	0	0.88
188	201.2689731	-38.2785096	18.3317	0.0350	17.7897	0.0355	17.4933	0.1063	-76.4	0.104	0	0.89
189	201.1955910	-38.2782005	19.6266	0.0648	18.8030	0.0511	18.2203	0.1173	-80.8	0.076	0	0.38
190	201.3334259	-38.2788219	19.3648	0.0558	18.8465	0.0577	18.5019	0.1655	78.3	0.176	0	0.83
192	201.2397510	-38.2789960	18.8995	0.0644	18.4267	0.0704	18.1921	0.2257	84.8	0.406	0	0.11
193	201.2291368	-38.2790334	19.6852	0.0751	19.1568	0.0776	20.0007	0.6667	-76.1	0.211	0	0.64
194	201.2199989	-38.2796524	19.3835	0.0670	18.7506	0.0630	18.1003	0.1370	63.7	0.113	0	0.09
196	201.1806988	-38.2800462	19.0496	0.0621	18.8649	0.0880	18.2726	0.2032	-81.8	0.187	0	0.49
197	201.2106329	-38.2801483	18.4684	0.0562	18.2341	0.0765	18.4215	0.3624	-86.4	0.413	0	0.00
199	201.2941074	-38.2811279	19.4338	0.0708	18.5627	0.0537	17.7445	0.1000	-80.2	0.257	0	0.05
200	201.2649793	-38.2814941	18.4013	0.0426	17.6873	0.0372	16.9723	0.0763	-83.6	0.204	1	0.05
202	201.2124553	-38.2817135	19.4519	0.0575	18.9873	0.0624	19.0029	0.2493	-88.2	0.116	0	0.84
203	201.2011080	-38.2817043	19.3190	0.0683	18.8384	0.0739	19.4273	0.5036	-89.4	0.197	0	0.65
204	201.2927113	-38.2822919	18.1583	0.0453	17.9017	0.0603	17.9068	0.2414	83.5	0.409	0	0.13
205	201.2105251	-38.2820868	18.6181	0.0504	19.2162	0.1459	19.6374	0.8596	-82.5	0.397	0	0.11
206	201.3124038	-38.2827175	17.3241	0.0217	16.6227	0.0190	15.9326	0.0397	54.6	0.075	0	0.03
207	201.2334456	-38.2846306	17.8748	0.0269	17.5682	0.0336	17.1509	0.0903	-72.8	0.183	3	0.21
209	201.2321539	-38.2834972	17.2965	0.0162	16.5765	0.0138	15.9288	0.0293	-50.5	0.208	3	0.03
210	201.1735921	-38.2824921	19.1365	0.0527	18.8745	0.0689	19.0674	0.3255	-89.6	0.259	0	0.77

Figure A.151: Catalogue for B Field m1p1 (cont.)

211	201.2649493	-38.2829670	17.4793	0.0207	16.7144	0.0171	16.0983	0.0378	-58.6	0.198	0	0.09
212	201.1976309	-38.2826804	19.5115	0.0735	19.0883	0.0837	18.7913	0.2526	-82.9	0.431	0	0.10
213	201.3211129	-38.2830854	18.8898	0.0648	18.4222	0.0713	18.2239	0.2363	-81.7	0.318	0	0.57
214	201.3321704	-38.2837565	17.8031	0.0300	17.1903	0.0287	17.3476	0.1307	-77.3	0.528	0	0.24
215	201.3177644	-38.2832867	19.4167	0.0819	18.7903	0.0779	18.5655	0.2516	-89.7	0.294	0	0.39
216	201.2362940	-38.2833089	18.7537	0.0534	17.9545	0.0433	17.0702	0.0760	-49.4	0.168	0	0.04
217	201.3284530	-38.2834988	18.5750	0.0339	18.0929	0.0360	17.6555	0.0942	-70.9	0.094	0	0.82
218	201.1870975	-38.2832138	19.2541	0.0618	18.9322	0.0770	18.7255	0.2526	-78.1	0.142	0	0.39
220	201.2293386	-38.2835636	19.4027	0.0699	19.0744	0.0868	19.2506	0.4050	74.2	0.169	0	0.57
221	201.2919738	-38.2839674	18.3073	0.0528	18.3175	0.0899	18.2456	0.3363	-38.3	0.399	0	0.21
223	201.2593014	-38.2841541	19.4481	0.0626	18.9336	0.0653	18.6346	0.1958	-71.7	0.102	0	0.82
224	201.2892358	-38.2842632	19.7634	0.0878	19.2892	0.0957	18.6806	0.2172	14.4	0.014	0	0.26
227	201.2148716	-38.2845330	19.8645	0.0861	19.3537	0.0906	18.4991	0.1638	-77.2	0.278	0	0.40
229	201.2675619	-38.2859801	18.7651	0.0432	18.4129	0.0521	18.3069	0.1865	-88.2	0.118	0	0.89
230	201.3136781	-38.2864349	18.7024	0.0466	18.1877	0.0487	18.4494	0.2447	-70.0	0.195	0	0.47
233	201.2285344	-38.2863589	19.8578	0.0996	19.2945	0.1003	21.9078	4.4199	-75.1	0.281	0	0.19
234	201.2561055	-38.2866174	18.9333	0.0759	18.5559	0.0909	17.9469	0.2070	54.4	0.214	0	0.00
235	201.3141889	-38.2879221	18.5436	0.0408	18.0478	0.0433	18.1066	0.1804	-77.7	0.241	0	0.33
236	201.1919144	-38.2883698	18.9548	0.0751	18.3730	0.0746	17.5169	0.1353	83.9	0.208	0	0.01
239	201.2089218	-38.2889761	17.3501	0.0162	16.8140	0.0161	16.4105	0.0430	88.6	0.181	0	0.88
240	201.2664149	-38.2887267	19.8850	0.1066	19.7262	0.1556	19.5175	0.5123	-74.9	0.335	0	0.27
241	201.1984459	-38.2906563	19.0912	0.0785	18.2177	0.0597	17.6011	0.1346	-75.5	0.489	3	0.21
242	201.1988224	-38.2890226	17.6792	0.0279	16.8732	0.0224	16.2180	0.0482	70.0	0.072	3	0.02
243	201.1974144	-38.2896651	17.3830	0.0217	16.4249	0.0152	15.8269	0.0341	84.5	0.239	3	0.03
244	201.2234526	-38.2889538	18.7254	0.0453	18.0653	0.0414	17.6666	0.1132	-81.3	0.179	0	0.87
245	201.2628001	-38.2887921	19.5446	0.0969	18.9738	0.0972	18.2774	0.2040	-38.9	0.331	0	0.00
246	201.2580701	-38.2894480	19.1403	0.0615	18.3817	0.0517	18.1406	0.1636	-68.9	0.171	0	0.77
248	201.2760164	-38.2900077	18.1512	0.0282	17.7036	0.0309	17.4561	0.0963	-78.1	0.155	0	0.79
251	201.1787658	-38.2900213	19.2992	0.0534	18.4484	0.0410	17.7319	0.0831	70.5	0.034	0	0.36
252	201.2550906	-38.2903664	19.2327	0.0679	18.8604	0.0811	18.4791	0.2269	85.4	0.210	0	0.46
254	201.2315685	-38.2907864	19.3473	0.0764	18.4064	0.0545	17.8099	0.1247	-81.9	0.209	0	0.11
255	201.3003239	-38.2911160	18.4097	0.0316	17.8687	0.0318	17.1672	0.0653	89.7	0.113	0	0.04
256	201.2031328	-38.2912611	18.5890	0.0354	18.2678	0.0435	18.5639	0.2244	86.5	0.256	0	0.44
257	201.3148765	-38.2916142	18.6693	0.0421	18.1819	0.0449	18.2989	0.1970	89.2	0.254	0	0.55
258	201.1801197	-38.2913025	18.6756	0.0633	17.9077	0.0530	16.9834	0.0902	-68.9	0.277	0	0.00
259	201.2628778	-38.2915676	18.9261	0.0621	18.6134	0.0785	18.8574	0.3912	-78.3	0.295	0	0.41
260	201.1883745	-38.2920714	18.0342	0.0347	17.5322	0.0367	16.8041	0.0743	80.6	0.417	0	0.02
261	201.2866384	-38.2922276	19.4065	0.0722	18.9600	0.0806	19.3914	0.4755	-82.6	0.301	0	0.76
264	201.2039528	-38.2932583	16.6716	0.0099	16.1956	0.0102	16.0902	0.0350	-40.7	0.379	0	0.03
265	201.2775654	-38.2929548	19.2168	0.0712	18.2211	0.0484	17.5414	0.1024	81.4	0.186	0	0.01
272	201.2108255	-38.2947023	18.8280	0.0690	18.4875	0.0854	18.0983	0.2380	-53.0	0.435	0	0.00
274	201.2247550	-38.2952826	19.1089	0.0477	18.5618	0.0480	18.3792	0.1593	88.3	0.270	0	0.88
275	201.2420328	-38.2952947	19.4970	0.0850	19.1914	0.1083	19.0516	0.3794	37.8	0.039	0	0.76
276	201.3259745	-38.2956636	19.4344	0.0631	18.8745	0.0632	18.4969	0.1763	-76.2	0.293	0	0.80
277	201.1771700	-38.2954199	19.5986	0.1018	18.9725	0.0971	18.6911	0.2985	74.6	0.198	0	0.73
278	201.2717720	-38.2958417	19.9109	0.1158	19.2854	0.1105	19.3907	0.4846	-76.6	0.048	0	0.63
280	201.2696812	-38.2964475	18.8720	0.0729	18.4282	0.0822	20.1011	1.5282	-29.1	0.134	0	0.02
281	201.2910491	-38.2968266	18.3813	0.0523	17.7949	0.0516	17.3414	0.1352	-81.9	0.222	0	0.17
284	201.1916153	-38.2967007	19.3655	0.0844	18.8802	0.0914	18.6266	0.2880	-43.4	0.414	0	0.20

Figure A.152: Catalogue for B Field m1p1 (cont.)

285	201.1851460	-38.2967571	19.9994	0.0957	19.4102	0.0938	18.8263	0.2175	-74.9	0.288	0	0.15
287	201.1979375	-38.2972493	17.7499	0.0185	17.0789	0.0164	16.9344	0.0546	-89.6	0.220	0	0.89
288	201.1935464	-38.2971140	19.7188	0.0715	19.1004	0.0679	19.3829	0.3471	89.5	0.349	0	0.49
289	201.2504121	-38.2974159	19.5220	0.0804	19.4887	0.1311	19.9136	0.7727	-67.9	0.176	0	0.62
291	201.2814959	-38.2979734	19.3772	0.0555	18.9458	0.0622	18.9608	0.2482	-74.0	0.191	0	0.84
292	201.3035224	-38.2979107	19.9739	0.0881	19.5585	0.1010	19.2538	0.3025	-89.4	0.274	0	0.65
294	201.1817140	-38.2985097	18.1054	0.0349	17.7589	0.0425	17.5733	0.1419	-87.3	0.186	0	0.70
296	201.2668083	-38.2989021	19.8292	0.0740	19.5567	0.0960	19.9169	0.5291	-88.8	0.166	0	0.72
297	201.2586057	-38.2999749	19.6800	0.1015	18.6394	0.0663	17.9099	0.1346	53.4	0.098	0	0.01
298	201.2339263	-38.3000904	19.4718	0.0811	19.3329	0.1202	18.4882	0.2203	-76.3	0.214	0	0.48
299	201.2882734	-38.3002330	19.1242	0.0929	18.8057	0.1177	18.3583	0.3116	67.7	0.181	0	0.00
302	201.2641957	-38.3003962	19.5516	0.0718	18.8688	0.0645	18.6394	0.2064	89.8	0.211	0	0.60
303	201.2255282	-38.3004044	19.4207	0.0784	18.7254	0.0700	19.2389	0.4450	-73.8	0.213	0	0.74
305	201.2099451	-38.3014385	19.0197	0.0727	19.1989	0.1447	18.7443	0.3805	-51.4	0.132	0	0.00
312	201.3170381	-38.3028737	19.6319	0.0645	19.3426	0.0823	18.7855	0.1949	-71.7	0.098	0	0.11
315	201.2322722	-38.3041659	17.0002	0.0121	16.3080	0.0103	15.6679	0.0218	52.9	0.150	0	0.03
317	201.3218772	-38.3043696	18.8865	0.0689	18.2153	0.0630	18.1630	0.2387	81.3	0.697	0	0.00
318	201.2279106	-38.3044862	18.5091	0.0495	17.9707	0.0509	17.9256	0.1939	-64.0	0.522	0	0.01
319	201.2296776	-38.3043130	18.9828	0.0593	18.1664	0.0473	17.4054	0.0929	-33.7	0.182	0	0.00
320	201.1987547	-38.3045700	18.7280	0.0378	18.0050	0.0324	17.2568	0.0637	73.6	0.218	0	0.75
321	201.2074218	-38.3045719	18.6419	0.0372	17.8229	0.0294	17.1236	0.0603	-83.4	0.168	0	0.07
323	201.3097630	-38.3054436	18.5434	0.0397	18.0942	0.0439	17.9116	0.1463	89.0	0.144	3	0.66
327	201.2870726	-38.3060469	17.1739	0.0151	16.8997	0.0190	16.9466	0.0773	-81.2	0.138	0	0.86
329	201.2343390	-38.3062846	18.4551	0.0431	17.9702	0.0464	17.3281	0.1018	79.5	0.321	0	0.01
333	201.2474282	-38.3068114	19.7188	0.0617	18.9753	0.0520	19.0583	0.2191	-47.1	0.109	0	0.71
334	201.1823933	-38.3072282	19.1716	0.0722	18.3662	0.0583	18.5397	0.2712	-89.9	0.234	0	0.00
336	201.1775361	-38.3076989	19.3280	0.0592	18.7528	0.0585	19.3128	0.3858	56.7	0.246	2	0.25
338	201.1795917	-38.3078507	20.0747	0.0999	19.3415	0.0860	19.6394	0.4474	49.3	0.140	0	0.66
342	201.2923718	-38.3086231	19.0661	0.0734	19.0179	0.1185	19.7137	0.8974	89.1	0.485	1	0.00
343	201.3139444	-38.3088086	19.1822	0.0780	18.4170	0.0655	17.7670	0.1432	82.3	0.264	0	0.01
344	201.1763274	-38.3089127	19.1173	0.0628	18.5478	0.0627	18.9603	0.3631	26.2	0.312	0	0.00
346	201.3236029	-38.3096987	18.7077	0.0384	18.1046	0.0367	17.7938	0.1080	84.1	0.195	0	0.18
347	201.1880625	-38.3093933	19.5833	0.0980	18.7790	0.0794	18.6463	0.2793	89.6	0.272	0	0.23
348	201.2692081	-38.3096089	19.7232	0.1051	19.1397	0.1042	18.5174	0.2341	-45.2	0.242	0	0.65
349	201.2309619	-38.3102756	17.9908	0.0293	17.3064	0.0261	17.1474	0.0885	60.7	0.432	0	0.73
350	201.2488110	-38.3100154	18.9297	0.0430	18.6346	0.0542	18.2452	0.1494	-76.3	0.077	0	0.65
352	201.2384206	-38.3101747	18.3846	0.0491	17.7040	0.0444	18.0746	0.2478	86.9	0.130	0	0.53
356	201.1747485	-38.3119665	18.6142	0.0586	18.1867	0.0668	18.1650	0.2608	65.6	0.104	3	0.11
357	201.1889336	-38.3110221	18.4320	0.0516	18.0664	0.0622	17.6425	0.1676	-89.8	0.349	1	0.11
358	201.2426706	-38.3111820	18.9895	0.0730	18.6101	0.0871	18.1926	0.2365	76.8	0.170	0	0.00
364	201.2066572	-38.3124190	19.0462	0.0598	18.3734	0.0543	17.6774	0.1135	-76.8	0.120	0	0.07
365	201.3335069	-38.3130414	19.5008	0.0614	18.8816	0.0582	18.6428	0.1838	-84.2	0.265	0	0.12
367	201.2669342	-38.3135918	19.3130	0.0949	18.8234	0.1026	17.9801	0.1884	7.9	0.175	0	0.00
368	201.3120300	-38.3140651	19.2463	0.0513	18.3268	0.0371	17.7122	0.0823	-74.2	0.266	3	0.07
369	201.3123357	-38.3148376	19.1499	0.0595	18.3340	0.0474	18.4661	0.2110	88.2	0.381	3	0.27
370	201.2102330	-38.3139990	18.4412	0.0436	17.8252	0.0416	18.1861	0.2293	-84.8	0.312	0	0.37
371	201.2301051	-38.3139563	20.0139	0.0888	19.7345	0.1151	19.6221	0.4120	-89.6	0.311	0	0.24
372	201.2476727	-38.3142290	19.5719	0.0644	19.5805	0.1077	18.8715	0.2229	-89.3	0.121	0	0.53
373	201.2628731	-38.3142959	18.7547	0.0487	18.1377	0.0464	17.9344	0.1520	-88.3	0.213	0	0.65

Figure A.153: Catalogue for B Field m1p1 (cont.)

376	201.3267618	-38.3144829	19.7661	0.0679	18.9911	0.0559	19.2374	0.2742	81.9	0.030	0	0.66
377	201.2087318	-38.3149563	19.2400	0.0709	18.6607	0.0703	19.0012	0.3814	64.4	0.109	0	0.09
378	201.2646951	-38.3153087	18.8978	0.0447	18.4612	0.0498	17.9759	0.1256	-78.6	0.203	0	0.38
379	201.2883445	-38.3156211	17.6288	0.0248	16.7856	0.0192	16.2403	0.0455	19.1	0.089	0	0.00
382	201.2825328	-38.3169120	17.8271	0.0224	16.9335	0.0164	16.3190	0.0360	-71.6	0.175	3	0.06
383	201.2629622	-38.3155666	19.0917	0.0702	18.1969	0.0523	17.8183	0.1463	-54.7	0.127	0	0.07
384	201.2980989	-38.3160858	19.0191	0.0459	18.4298	0.0446	18.4948	0.1855	88.4	0.171	0	0.37
385	201.2136835	-38.3158578	19.6376	0.0867	19.5439	0.1338	18.9852	0.3190	-89.2	0.282	0	0.52
387	201.2703358	-38.3165835	18.5067	0.0559	17.7992	0.0494	17.2092	0.1142	-83.1	0.211	0	0.00
389	201.3228361	-38.3173782	17.9958	0.0322	17.3407	0.0296	16.9809	0.0837	-66.0	0.132	0	0.69
390	201.2443174	-38.3174323	19.6219	0.1074	19.0110	0.1039	19.6153	0.7225	66.8	0.171	0	0.39
391	201.2472768	-38.3175196	19.6486	0.0821	19.1850	0.0903	18.8080	0.2535	-75.7	0.210	0	0.52
392	201.2749173	-38.3179654	17.9812	0.0334	17.5325	0.0370	17.3752	0.1268	-70.9	0.569	0	0.27
395	201.3029743	-38.3181221	18.0689	0.0239	17.6851	0.0274	17.5532	0.0946	-84.7	0.204	0	0.85
396	201.2705517	-38.3182397	18.1405	0.0439	17.3231	0.0351	16.7634	0.0831	67.2	0.243	0	0.02
397	201.2957834	-38.3181012	18.7800	0.0407	17.9803	0.0327	17.2367	0.0645	68.5	0.078	0	0.09
400	201.2362070	-38.3192374	18.1062	0.0423	17.3306	0.0351	17.8197	0.2180	84.5	0.393	0	0.19
401	201.1875741	-38.3190713	18.8524	0.0668	18.3067	0.0685	17.8150	0.1733	45.3	0.130	0	0.00
405	201.1827502	-38.3194895	19.5793	0.0684	19.2275	0.0827	19.0148	0.2693	-86.5	0.184	0	0.74
406	201.2838957	-38.3197478	19.6053	0.0748	18.9513	0.0691	18.7759	0.2324	-88.0	0.241	0	0.65
407	201.2531615	-38.3198569	20.0225	0.0715	19.4833	0.0725	19.5414	0.2997	75.7	0.273	0	0.47
409	201.1938753	-38.3203472	17.8221	0.0202	17.4699	0.0236	17.2634	0.0759	88.0	0.131	0	0.89
413	201.2525269	-38.3211883	19.3485	0.0558	19.3717	0.0943	19.7342	0.5217	83.6	0.190	0	0.52
416	201.2697444	-38.3216913	19.7243	0.1201	18.7161	0.0809	18.3599	0.2321	24.2	0.171	0	0.00
417	201.2209910	-38.3216450	19.5796	0.0754	19.0955	0.0813	19.5645	0.4957	48.0	0.111	0	0.69
419	201.2316956	-38.3218719	19.8090	0.1085	19.5915	0.1502	19.8496	0.7602	88.9	0.200	0	0.21
420	201.2800996	-38.3220669	19.4145	0.0796	18.6424	0.0662	17.7597	0.1168	-47.8	0.137	0	0.15
421	201.2609511	-38.3222183	19.5494	0.0584	18.8943	0.0534	18.2038	0.1110	81.9	0.242	0	0.82
426	201.2501505	-38.3241514	19.3570	0.0604	18.7899	0.0601	19.0388	0.2979	-88.9	0.195	0	0.82
427	201.3039525	-38.3249847	18.6117	0.0448	18.1093	0.0473	18.1863	0.2009	72.3	0.254	0	0.08
428	201.2085288	-38.3252977	17.4517	0.0186	16.8476	0.0176	16.6523	0.0572	87.9	0.197	0	0.87
429	201.2605657	-38.3251318	19.3905	0.0611	18.5400	0.0471	17.6863	0.0845	73.7	0.284	3	0.29
433	201.2390891	-38.3259273	18.2161	0.0379	17.7170	0.0402	17.6501	0.1496	87.8	0.279	0	0.65
435	201.3359364	-38.3260394	19.5476	0.0615	18.9002	0.0567	18.1578	0.1128	81.2	0.313	0	0.04
438	201.2057420	-38.3260822	19.6560	0.1072	18.7505	0.0793	18.6885	0.2978	14.8	0.207	0	0.00
439	201.1990165	-38.3264580	18.4777	0.0330	18.0285	0.0361	17.3813	0.0780	-87.9	0.185	0	0.89
440	201.2800934	-38.3266406	19.4422	0.0597	18.8645	0.0587	18.3938	0.1499	-73.1	0.186	0	0.35
441	201.1980069	-38.3272522	19.0455	0.0619	18.1558	0.0462	17.1293	0.0712	87.6	0.191	0	0.09
443	201.2100506	-38.3281997	19.1584	0.0792	19.1014	0.1269	19.0428	0.4803	80.1	0.393	0	0.00
444	201.3166653	-38.3287816	18.8530	0.0411	18.4148	0.0455	18.0581	0.1289	-85.1	0.229	0	0.82
445	201.2489767	-38.3288960	19.2414	0.0562	18.7847	0.0617	17.8261	0.1011	-46.2	0.217	0	0.10
448	201.2878598	-38.3295007	18.8584	0.0525	18.6566	0.0730	18.6526	0.2891	-89.7	0.175	0	0.86
449	201.2397297	-38.3293725	19.0736	0.0673	19.0855	0.1144	19.1418	0.4808	62.7	0.092	0	0.27
450	201.2140985	-38.3297440	19.3141	0.0578	18.5251	0.0471	17.8611	0.1005	89.6	0.140	0	0.02
451	201.1845648	-38.3299697	19.2537	0.0555	18.8420	0.0634	18.4946	0.1819	87.2	0.267	0	0.31
452	201.3218930	-38.3305481	18.7460	0.0516	18.4449	0.0657	18.0690	0.1847	-76.5	0.096	0	0.77
453	201.2887673	-38.3307306	19.5736	0.0728	19.3218	0.0967	18.9333	0.2686	-87.6	0.145	0	0.47
454	201.2302065	-38.3308696	18.3156	0.0290	17.7352	0.0281	17.6564	0.1018	-86.5	0.163	0	0.56
455	201.2920806	-38.3309178	18.8487	0.0580	19.3679	0.1565	20.2222	1.3738	-87.0	0.686	0	0.00

Figure A.154: Catalogue for B Field m1p1 (cont.)

456	201.1722142	-38.3313789	17.9544	0.0309	17.6398	0.0386	17.8607	0.1870	88.4	0.333	17	0.08
458	201.3334829	-38.3314863	17.8008	0.0215	17.4290	0.0249	17.7581	0.1314	88.4	0.185	0	0.47
459	201.2606772	-38.3310551	19.6420	0.0887	19.1745	0.0975	18.6568	0.2408	64.0	0.087	0	0.14
461	201.2286286	-38.3316134	17.0977	0.0132	16.6685	0.0144	16.5605	0.0499	54.1	0.307	0	0.89
462	201.2025308	-38.3312489	19.8548	0.1005	19.4534	0.1173	19.3913	0.4410	-45.1	0.208	0	0.40
463	201.2181563	-38.3316312	19.1812	0.0551	18.5277	0.0507	18.7785	0.2511	87.3	0.292	0	0.20
466	201.2250334	-38.3321819	18.3244	0.0323	17.7637	0.0320	18.1570	0.1801	-85.5	0.181	0	0.78
467	201.2542679	-38.3325460	16.9090	0.0111	16.4128	0.0112	16.3114	0.0385	-66.7	0.369	0	0.09
468	201.3080795	-38.3321272	19.8741	0.0777	19.2191	0.0715	18.6320	0.1643	-75.4	0.129	0	0.25
471	201.2644414	-38.3330148	19.2186	0.1084	18.3741	0.0849	19.2988	0.7937	-55.9	0.309	1	0.00
472	201.3001533	-38.3331586	19.8485	0.0918	19.1336	0.0804	18.3069	0.1491	79.8	0.233	0	0.69
474	201.2979138	-38.3338793	18.9628	0.0442	18.4014	0.0440	18.1431	0.1360	-82.7	0.215	0	0.68
475	201.2089477	-38.3340458	17.9706	0.0396	17.8504	0.0596	17.3989	0.1569	-49.1	0.228	3	0.17
476	201.2089434	-38.3347670	18.1236	0.0407	18.1103	0.0675	17.3615	0.1351	-72.2	0.118	3	0.76
478	201.1946252	-38.3343145	18.5877	0.0347	17.9878	0.0332	17.7752	0.1067	88.5	0.258	0	0.76
481	201.2991183	-38.3346633	19.3665	0.0578	18.6596	0.0506	18.1466	0.1242	-83.3	0.212	0	0.24
483	201.1818380	-38.3351643	18.1091	0.0249	17.6109	0.0259	17.4819	0.0894	-83.8	0.238	0	0.86
484	201.1971471	-38.3353748	19.4832	0.0586	18.8564	0.0550	18.9151	0.2279	88.8	0.126	0	0.68
487	201.2986030	-38.3365093	19.4983	0.0594	19.0734	0.0669	18.3895	0.1407	-87.8	0.136	0	0.64
488	201.2067408	-38.3369750	18.7745	0.0552	18.2304	0.0565	18.4973	0.2862	89.9	0.255	0	0.36
490	201.3116782	-38.3378876	19.0346	0.0438	18.4381	0.0421	18.7428	0.2178	-84.1	0.212	0	0.63
491	201.1903804	-38.3376172	19.8705	0.1085	19.7445	0.1632	19.7450	0.6518	80.2	0.364	0	0.43
494	201.2527502	-38.3388194	18.9064	0.0421	18.3206	0.0409	18.5365	0.1951	-89.6	0.151	0	0.80
495	201.1921695	-38.3392337	18.4897	0.0395	18.1273	0.0473	18.1690	0.1941	-77.7	0.161	0	0.75
497	201.1807044	-38.3398231	18.7848	0.0725	18.5057	0.0951	18.5938	0.4117	-72.1	0.335	0	0.01
500	201.3347684	-38.3406601	18.1409	0.0355	17.2287	0.0259	16.4893	0.0516	-76.8	0.098	0	0.01
503	201.2883542	-38.3406211	19.6066	0.1108	18.9182	0.1000	18.1958	0.2051	-57.4	0.293	0	0.00
504	201.2461512	-38.3412078	19.6978	0.0606	18.8451	0.0464	18.9633	0.2009	-84.6	0.247	0	0.45
508	201.1774876	-38.3416285	18.5940	0.0362	17.7085	0.0269	17.7519	0.1086	86.0	0.217	0	0.46
509	201.1803986	-38.3421447	18.4537	0.0435	17.8498	0.0420	17.6470	0.1378	-86.1	0.343	0	0.43
510	201.3210842	-38.3426970	18.2804	0.0365	17.7950	0.0391	17.8475	0.1620	-85.4	0.317	0	0.13
511	201.1746747	-38.3425102	17.8416	0.0324	17.5953	0.0432	17.9860	0.2459	87.4	0.135	0	0.07
512	201.2605547	-38.3425392	19.2373	0.0509	18.7548	0.0544	18.9627	0.2587	-89.5	0.195	0	0.68
513	201.2144236	-38.3425242	19.2821	0.0664	18.5461	0.0569	17.9003	0.1244	87.4	0.213	0	0.11
514	201.2393961	-38.3426539	19.4499	0.0815	18.9184	0.0845	18.5023	0.2290	-45.9	0.284	0	0.24
515	201.2351589	-38.3430136	19.5032	0.0648	18.9916	0.0678	18.8781	0.2412	-60.6	0.145	0	0.85
516	201.3368127	-38.3432130	19.9656	0.1006	19.0084	0.0708	18.4329	0.1650	87.0	0.194	16	0.58
521	201.1750380	-38.3445185	19.2918	0.0845	19.1103	0.1209	17.9015	0.1588	54.4	0.199	0	0.05
522	201.1791528	-38.3445368	19.6517	0.0809	18.6093	0.0527	18.0100	0.1197	-44.6	0.121	0	0.61
524	201.2858797	-38.3460820	19.2803	0.0825	18.8500	0.0940	19.4483	0.6492	89.8	0.157	0	0.17
525	201.3200793	-38.3461166	19.6907	0.0622	19.4393	0.0818	19.1199	0.2406	84.1	0.241	0	0.54
527	201.3048469	-38.3468271	19.1028	0.0471	18.5072	0.0454	18.7132	0.2150	-82.0	0.248	0	0.66
528	201.1825503	-38.3467400	19.2106	0.0518	18.6620	0.0522	18.5569	0.1862	-88.2	0.262	0	0.70
530	201.2862276	-38.3472063	19.0838	0.0659	18.5734	0.0695	17.5295	0.1059	-77.5	0.121	0	0.00
531	201.2954307	-38.3473397	19.4375	0.0742	19.2470	0.1046	19.8902	0.7525	84.2	0.318	0	0.83
532	201.2007235	-38.3474882	18.0489	0.0237	17.7152	0.0284	17.6189	0.1013	-85.3	0.217	0	0.88
533	201.1933575	-38.3479252	17.1807	0.0130	16.9131	0.0160	16.8173	0.0564	85.6	0.123	0	0.86
534	201.2561820	-38.3476882	19.3525	0.0761	19.0191	0.0945	18.6735	0.2735	-80.2	0.314	0	0.56
535	201.2822867	-38.3477364	19.8571	0.0973	18.9625	0.0725	18.2190	0.1449	88.7	0.195	0	0.64

Figure A.155: Catalogue for B Field m1p1 (cont.)

536	201.1750897	-38.3481531	18.6343	0.0375	18.0807	0.0374	17.4995	0.0862	84.3	0.248	0	0.03
541	201.2998363	-38.3523745	16.5922	0.0113	16.0749	0.0114	15.5642	0.0277	-61.8	0.544	3	0.85
542	201.2920695	-38.3492738	18.9317	0.0676	19.2887	0.1582	18.7818	0.3967	87.5	0.573	0	0.00
543	201.1724000	-38.3494888	17.8457	0.0236	17.7597	0.0357	18.5378	0.2875	84.7	0.213	16	0.89
545	201.2385636	-38.3505186	16.7626	0.0138	16.0990	0.0124	15.5305	0.0285	59.9	0.195	0	0.02
547	201.2124828	-38.3502247	17.8991	0.0214	17.3544	0.0212	17.0877	0.0641	78.1	0.216	0	0.67
548	201.2318449	-38.3502724	17.3905	0.0161	17.1950	0.0216	17.0285	0.0721	-87.8	0.197	0	0.87
552	201.1875814	-38.3503508	18.6599	0.0582	18.6034	0.0932	18.6485	0.3874	87.5	0.604	1	0.00
556	201.2771541	-38.3510227	19.5381	0.0889	18.7498	0.0730	18.3978	0.2097	80.5	0.310	0	0.02
557	201.2066550	-38.3510413	19.0075	0.0612	18.2672	0.0523	17.8875	0.1461	-87.8	0.258	0	0.58
559	201.3364824	-38.3518596	18.0208	0.0238	17.7431	0.0300	17.6536	0.1081	87.0	0.211	19	0.16
563	201.1994591	-38.3517976	19.6989	0.0653	19.4270	0.0845	19.2915	0.2947	76.1	0.198	0	0.68
564	201.2102216	-38.3528430	18.0661	0.0509	17.8322	0.0695	17.8501	0.2823	-76.1	0.501	2	0.15
565	201.3311957	-38.3521238	19.3301	0.0729	18.3147	0.0486	17.3807	0.0815	-57.0	0.179	0	0.16
566	201.2391843	-38.3524595	18.3877	0.0479	18.0168	0.0574	18.1558	0.2595	-86.9	0.425	1	0.07
567	201.2585672	-38.3521274	19.5726	0.0880	18.7217	0.0683	17.9577	0.1341	89.8	0.350	0	0.23
568	201.3033652	-38.3529123	18.0998	0.0247	17.6143	0.0260	17.4956	0.0905	88.3	0.152	0	0.69
569	201.2311681	-38.3531170	18.7504	0.0422	18.5689	0.0592	18.3888	0.1984	87.9	0.225	0	0.37
570	201.2759666	-38.3530713	19.3515	0.0775	18.7001	0.0720	17.7994	0.1250	-80.5	0.090	0	0.01
572	201.2501697	-38.3536956	19.0685	0.0466	18.8016	0.0603	18.7435	0.2256	-88.0	0.246	0	0.75
573	201.1829207	-38.3540805	18.7989	0.0433	18.1171	0.0387	17.6866	0.1023	69.8	0.403	0	0.00
574	201.2067205	-38.3540899	19.8883	0.0724	19.2410	0.0668	20.2187	0.6445	78.7	0.228	0	0.59
575	201.3210628	-38.3550244	18.1296	0.0502	18.6891	0.1416	98.9160	99.0000	80.6	0.617	1	0.00
576	201.2611658	-38.3550180	17.9488	0.0253	17.4869	0.0274	17.1690	0.0799	-50.7	0.204	0	0.14
577	201.2654103	-38.3549864	18.9170	0.0484	18.1892	0.0416	17.2765	0.0709	64.4	0.452	0	0.00
578	201.2475862	-38.3551955	18.8406	0.0502	18.4137	0.0568	17.3736	0.0865	-64.0	0.462	0	0.01
581	201.2916114	-38.3563254	17.6918	0.0284	17.3903	0.0360	17.3130	0.1326	72.0	0.271	0	0.21
584	201.3097524	-38.3568679	16.2335	0.0078	15.7067	0.0076	15.5393	0.0244	-61.4	0.478	0	0.03
586	201.2156090	-38.3563762	19.1493	0.0497	18.2085	0.0352	17.3883	0.0648	-86.0	0.286	0	0.08
590	201.2078658	-38.3568110	18.9929	0.0760	18.9219	0.1204	18.2520	0.2596	-71.8	0.244	0	0.01
591	201.2868964	-38.3582619	16.9991	0.0361	16.4270	0.0363	17.0149	0.2487	-67.3	0.645	2	0.00
592	201.2511824	-38.3574173	19.6152	0.0994	19.0684	0.1019	19.1775	0.4486	83.2	0.166	0	0.60
593	201.2618371	-38.3580839	17.6981	0.0191	17.2694	0.0209	17.0287	0.0649	-87.0	0.268	0	0.86
595	201.2498714	-38.3584926	18.2551	0.0448	17.5085	0.0381	16.9352	0.0892	-63.7	0.127	0	0.02
596	201.3192445	-38.3584738	18.8737	0.0405	18.6957	0.0566	19.3084	0.3917	-88.0	0.269	0	0.84
597	201.3218279	-38.3585069	18.7313	0.0644	18.4216	0.0820	17.5839	0.1513	-7.6	0.239	3	0.00
598	201.3222427	-38.3591641	19.1468	0.0780	18.6860	0.0864	17.8474	0.1591	-70.4	0.373	3	0.12
601	201.2184587	-38.3590002	18.7660	0.0420	18.1087	0.0384	18.3440	0.1869	-89.2	0.164	0	0.74
602	201.3005387	-38.3595535	19.8090	0.0690	19.3322	0.0742	19.0737	0.2306	78.6	0.239	0	0.56
603	201.2286573	-38.3598242	19.0138	0.0444	18.3574	0.0405	17.8974	0.1039	85.2	0.134	0	0.80
604	201.2734301	-38.3596835	19.5375	0.0923	19.4774	0.1475	19.6206	0.6719	-58.1	0.228	0	0.69
605	201.3271656	-38.3600246	18.6849	0.0401	18.0341	0.0369	18.0592	0.1479	-77.1	0.114	3	0.40
606	201.3266712	-38.3608677	18.1931	0.0296	17.6324	0.0293	17.5320	0.1047	88.2	0.189	3	0.80
607	201.2176750	-38.3602025	18.1906	0.0334	17.8207	0.0395	18.0531	0.1933	-82.2	0.172	0	0.81
608	201.3169440	-38.3602124	19.4016	0.0832	18.3889	0.0557	17.5695	0.1039	20.3	0.073	0	0.07
609	201.1925468	-38.3600653	19.5106	0.1004	19.1362	0.1206	18.6275	0.3014	-73.3	0.087	0	0.35
611	201.2165221	-38.3613757	18.0350	0.0288	17.7284	0.0360	17.4762	0.1126	-86.9	0.244	3	0.24
612	201.2209246	-38.3600712	19.5837	0.0987	18.8466	0.0850	18.3287	0.2101	-89.2	0.272	0	0.61
613	201.2916619	-38.3603675	19.3316	0.0849	19.5279	0.1716	19.0019	0.4227	90.0	0.269	0	0.03

Figure A.156: Catalogue for B Field m1p1 (cont.)

614	201.1795832	-38.3608740	17.6002	0.0216	16.7736	0.0169	15.8151	0.0273	-88.1	0.367	0	0.02
615	201.1903609	-38.3605096	19.8047	0.1167	19.8409	0.2042	98.9160	99.0000	-78.9	0.288	0	0.23
616	201.2575249	-38.3609903	18.6467	0.0453	18.0428	0.0437	17.2270	0.0815	82.9	0.174	0	0.12
618	201.3170208	-38.3611901	19.2172	0.0724	18.3308	0.0543	17.7290	0.1237	-87.9	0.100	0	0.49
619	201.3241599	-38.3612484	18.6440	0.0505	17.8773	0.0421	16.9906	0.0738	73.9	0.185	0	0.09
620	201.2639377	-38.3611042	19.4587	0.0838	18.9818	0.0913	18.4455	0.2218	-75.8	0.232	0	0.54
621	201.2803215	-38.3611758	19.7838	0.0978	19.6512	0.1460	19.1961	0.3832	79.9	0.360	0	0.18
623	201.2787425	-38.3616534	18.9565	0.0642	18.5553	0.0749	17.7519	0.1423	-85.4	0.164	0	0.17
626	201.1810011	-38.3623441	18.5603	0.0413	17.8806	0.0371	17.4642	0.0997	-83.6	0.182	0	0.49
627	201.2716711	-38.3625671	18.5180	0.0323	17.8988	0.0302	17.9313	0.1212	82.2	0.192	0	0.89
630	201.1725194	-38.3634576	19.3313	0.0697	18.7436	0.0684	19.2090	0.4159	70.9	0.135	0	0.14
631	201.1842881	-38.3637510	17.7825	0.0194	17.2465	0.0193	17.1736	0.0696	87.3	0.194	0	0.86
633	201.2053141	-38.3636658	18.7382	0.0499	18.1592	0.0492	17.8910	0.1522	85.2	0.152	0	0.13
635	201.2412586	-38.3639795	18.0559	0.0236	17.5730	0.0247	17.2737	0.0730	88.5	0.187	0	0.89
636	201.2860096	-38.3639084	18.8549	0.0428	18.2091	0.0395	18.4225	0.1882	-88.7	0.171	0	0.48
638	201.3310682	-38.3641645	19.4580	0.0847	18.9664	0.0911	21.2279	2.9054	87.0	0.312	0	0.05
640	201.2714557	-38.3654339	19.0207	0.0740	18.3409	0.0671	17.9359	0.1839	-77.7	0.140	0	0.11
641	201.2046825	-38.3658137	19.3684	0.0807	18.4592	0.0594	17.5128	0.0987	-85.2	0.293	0	0.04
642	201.2519908	-38.3657749	19.7779	0.1008	19.6480	0.1509	19.2809	0.4296	-53.2	0.148	0	0.46
644	201.3034993	-38.2438923	18.8443	0.0430	19.2829	0.1060	20.8766	1.8280	70.3	0.139	0	0.25
645	201.2719315	-38.2456221	18.4970	0.0483	17.9834	0.0508	17.5509	0.1354	76.6	0.171	0	0.84
646	201.3009911	-38.2461636	18.0876	0.0435	17.5229	0.0437	21.8798	9.5849	77.7	0.444	0	0.35
647	201.2930670	-38.2435912	18.9274	0.0611	19.2307	0.1354	18.4900	0.2735	-80.3	0.390	0	0.61
648	201.3018828	-38.3677309	19.2987	0.0552	18.9748	0.0682	19.0198	0.2808	85.7	0.291	0	0.22
650	201.2911903	-38.3680976	19.0654	0.0770	19.1015	0.1345	19.0169	0.4971	3.5	0.367	0	0.01
652	201.3221301	-38.2438905	19.3870	0.0800	19.2350	0.1173	17.7337	0.1177	-31.0	0.396	0	0.37
653	201.2584730	-38.2445515	16.7063	0.0093	16.1705	0.0090	16.0731	0.0306	22.7	0.128	0	0.14
654	201.2930035	-38.2462006	19.0587	0.0706	19.8288	0.2409	19.1136	0.4992	-78.7	0.208	0	0.53
656	201.2211878	-38.2495410	17.3792	0.0262	16.8232	0.0264	16.5648	0.0825	86.7	0.149	0	0.07
657	201.2858863	-38.2478994	19.9617	0.1043	19.2287	0.0900	18.5710	0.1951	-43.6	0.135	0	0.54
658	201.3177538	-38.2555281	18.7514	0.0712	18.1634	0.0704	17.1393	0.1094	-69.9	0.191	0	0.03
659	201.2895772	-38.2475038	18.7696	0.0501	19.0317	0.1063	98.9160	99.0000	-89.8	0.107	0	0.84
661	201.3302420	-38.2541518	19.7375	0.0820	20.0875	0.1892	18.4464	0.1671	-58.9	0.222	0	0.49
663	201.2844507	-38.2450979	19.0471	0.0762	18.4578	0.0751	19.9220	1.1515	-82.3	0.508	0	0.24
665	201.2578277	-38.2552660	18.7040	0.0515	18.5138	0.0725	18.1249	0.2016	-89.2	0.181	1	0.55
669	201.3150148	-38.2477688	19.1626	0.0512	18.8242	0.0624	18.4550	0.1754	-80.0	0.264	0	0.14
670	201.2179658	-38.2493417	16.6418	0.0210	16.2391	0.0244	15.7589	0.0623	89.5	0.522	1	0.00
671	201.2440957	-38.2494409	19.1450	0.0479	18.6338	0.0498	18.3017	0.1442	-79.7	0.175	0	0.80
672	201.2734773	-38.2552921	19.5844	0.1001	19.0410	0.1030	18.0698	0.1680	78.9	0.120	0	0.35
673	201.2195160	-38.2522498	17.4519	0.0222	17.2455	0.0304	16.8542	0.0837	74.9	0.140	0	0.41
676	201.2909555	-38.2534273	16.8249	0.0137	16.1040	0.0117	15.4142	0.0241	-86.4	0.209	0	0.04
678	201.2747686	-38.2490385	18.2460	0.0400	17.9329	0.0504	17.3202	0.1138	-83.3	0.274	0	0.39
679	201.2568338	-38.2502893	19.1029	0.0717	18.7902	0.0908	22.4368	10.3840	69.4	0.028	0	0.35
681	201.2421369	-38.2488488	19.2500	0.0543	18.2350	0.0361	17.8600	0.0997	70.0	0.418	0	0.12
683	201.2766760	-38.2512689	18.8391	0.0626	17.9751	0.0480	17.0952	0.0848	4.2	0.144	2	0.11
684	201.2760266	-38.2520225	19.8786	0.0998	19.0132	0.0763	18.5460	0.1968	88.7	0.350	2	0.63
685	201.2345281	-38.2512766	18.8106	0.0547	18.5557	0.0727	18.3204	0.2327	-75.3	0.138	0	0.24
686	201.2280099	-38.2515220	19.2575	0.0533	18.6130	0.0493	18.4783	0.1708	74.0	0.159	0	0.53
687	201.3244311	-38.2520054	18.3543	0.0331	17.5405	0.0263	16.8952	0.0567	-88.1	0.104	0	0.02

Figure A.157: Catalogue for B Field m1p1 (cont.)

Appendix B

Pictures and Plots

B.1 Sample Pictures

Pictures of a sample of fields have been included. These are J-H-Ks composite pictures generated using the IRAF task **rgbsun** in the package **color**. These were then converted to greyscale and colour inverted to better show their content.

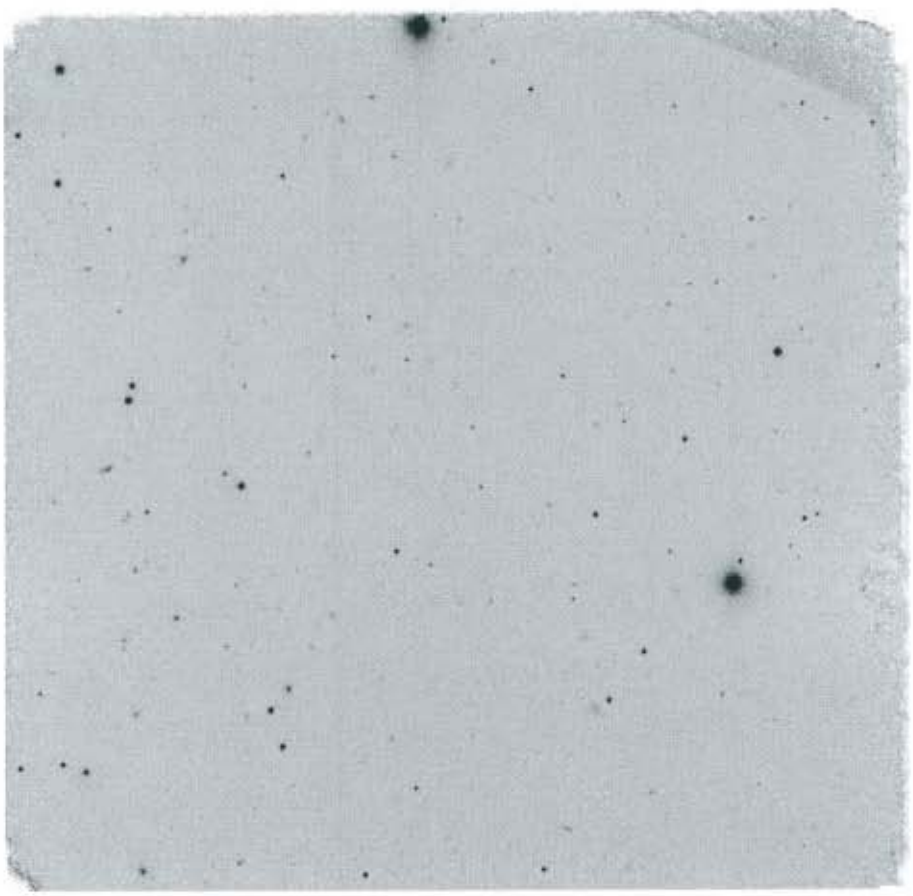

Figure B.1: J-H Ks composite picture of IRSF p1p0

Figure B.2: J-H-Ks composite picture of Pavo p0m1

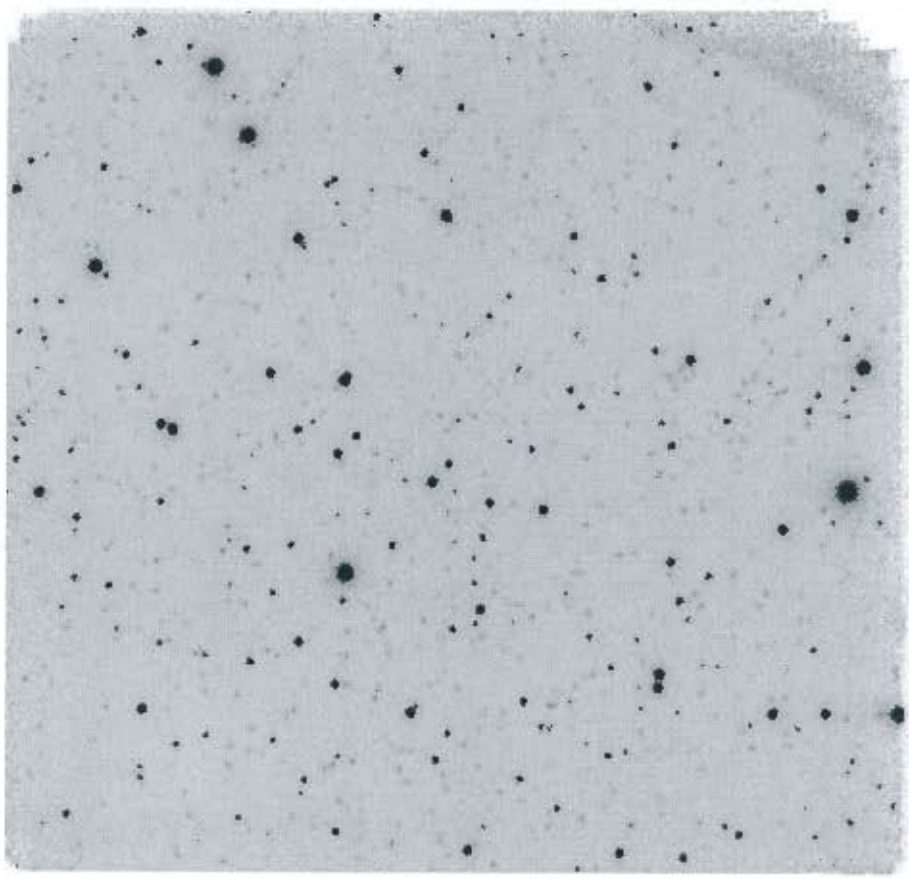

Figure B.3: J-H-Ks composite picture of A Field m1p0

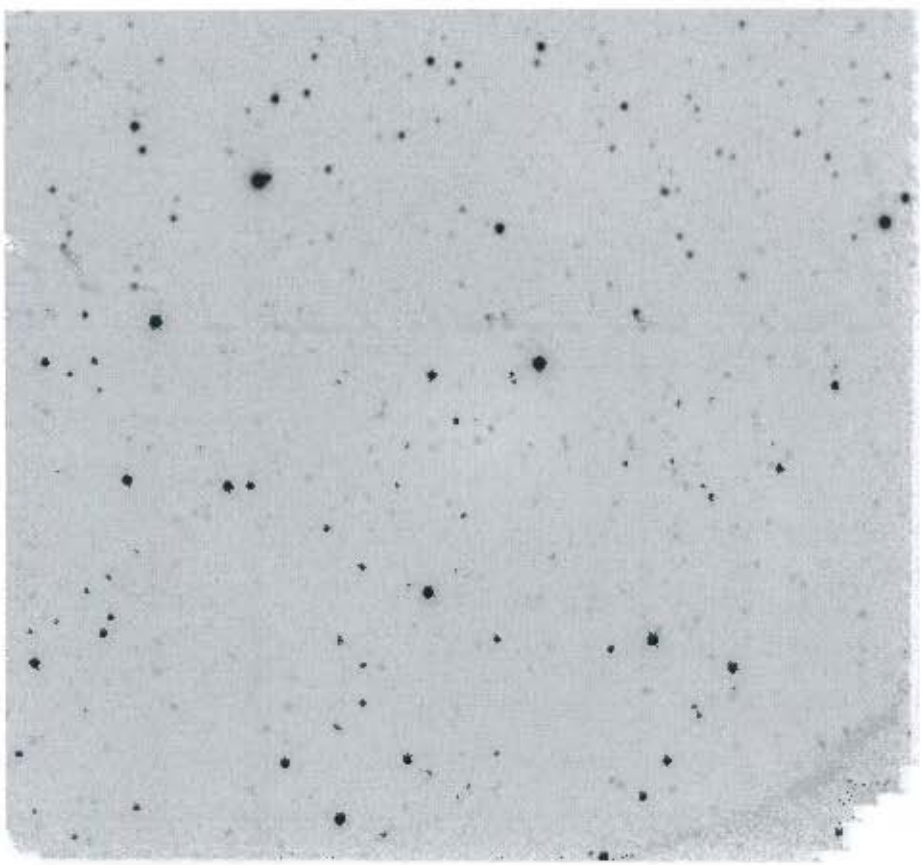

Figure B.4: J-H-Ks composite picture of B Field p1p0

B.2 Plots of detected galaxy positions

This section contains plots of the positions of the detected galaxies (as found by SExtractor) as well as known objects in these fields from NED. The open area at the top right of the plots is due to an imperfection in the J detector array and this area was removed from all fields to prevent spurious detections.

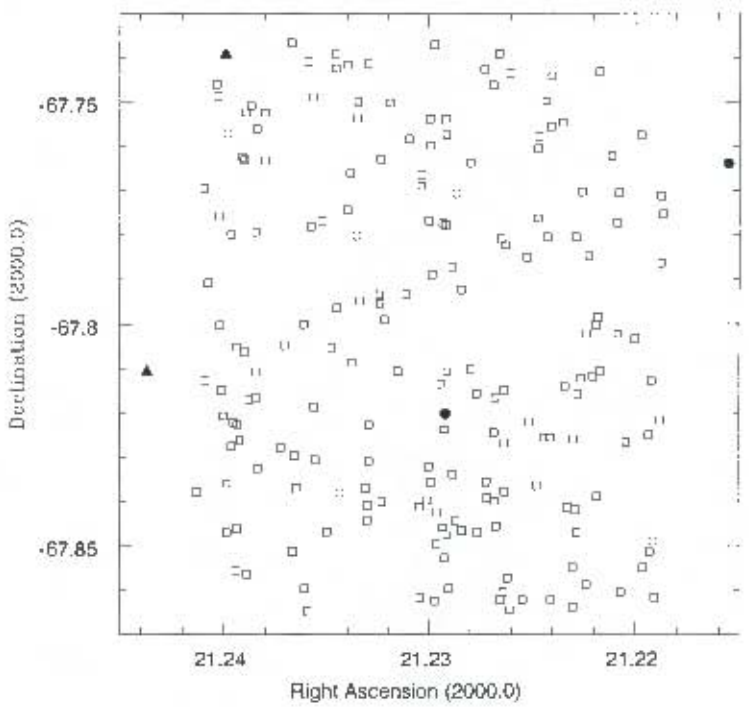

Figure B.5: Plot of content of Pavo m1p0 field.
The open squares are SExtractor detected galaxies, the solid circles are X-ray sources and the solid triangles are NED galaxies.

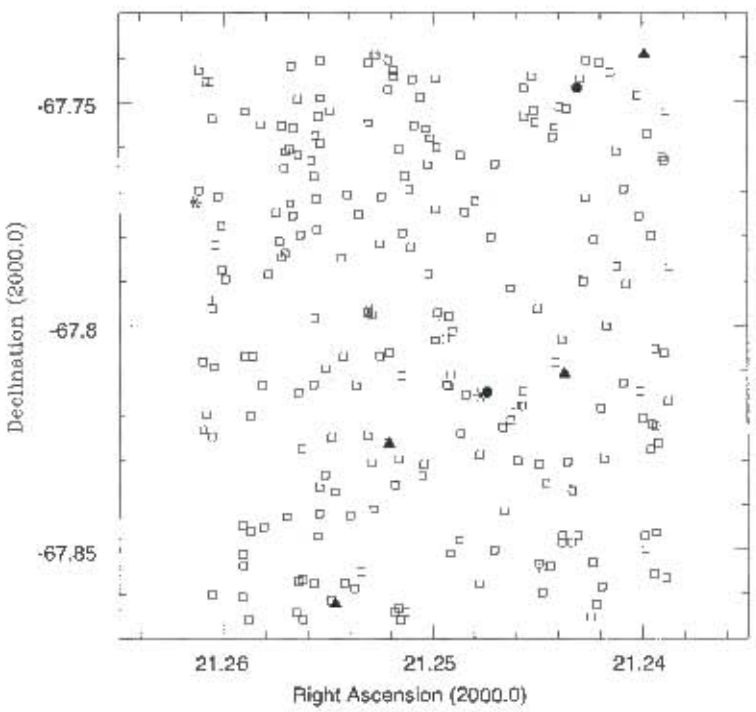

Figure B.6: Plot of content of Pavo p0p0 field.
The open squares are SExtractor detected galaxies, the solid circles are X-ray sources, the asterisks are QSOs and the solid triangles are NED galaxies.

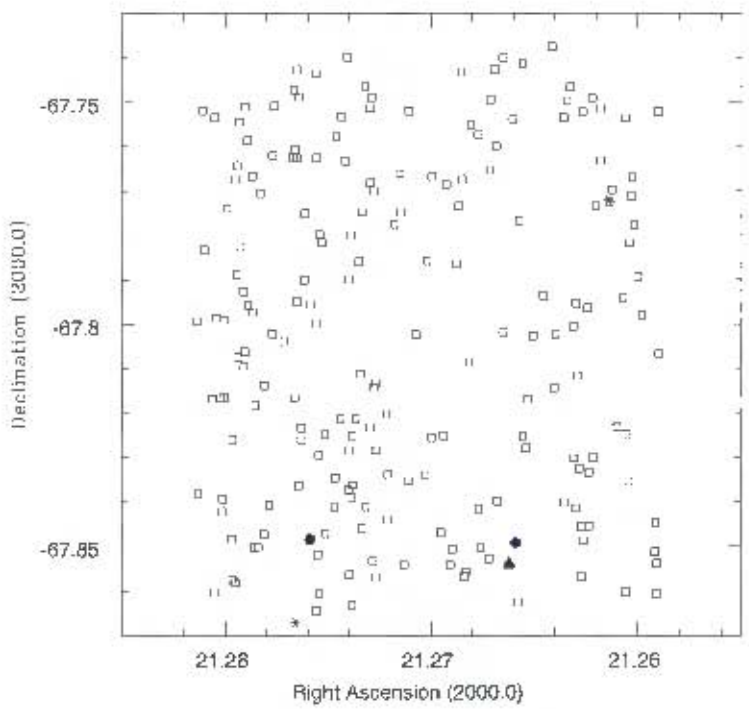

Figure B.7: Plot of content of Pavo p1p0 field.
The open squares are SExtractor detected galaxies, the solid circles are X-ray sources, the asterisks are QSOs and the solid triangles are NED galaxies.

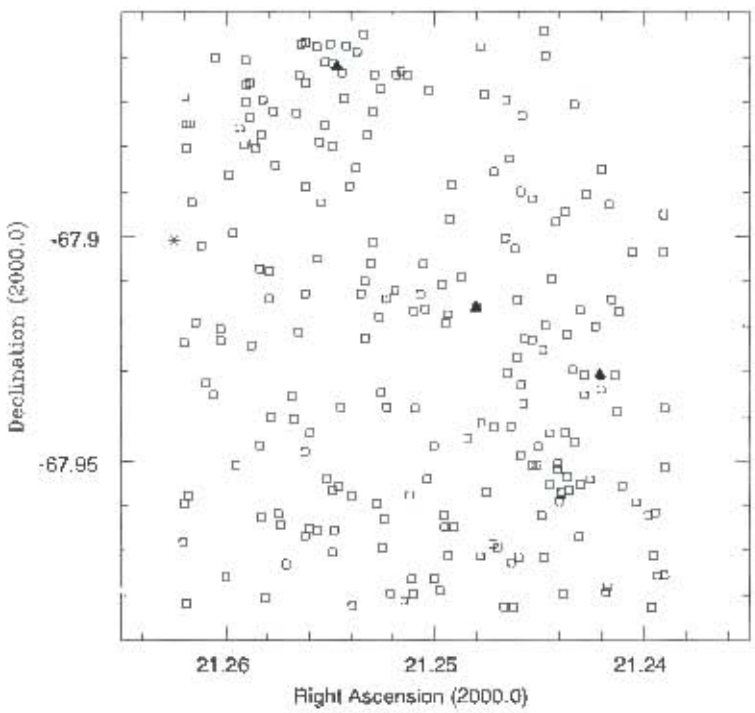

Figure B.8: Plot of content of Pavo p0m1 field.
The open squares are SExtractor detected galaxies and the solid triangles are NED galaxies.

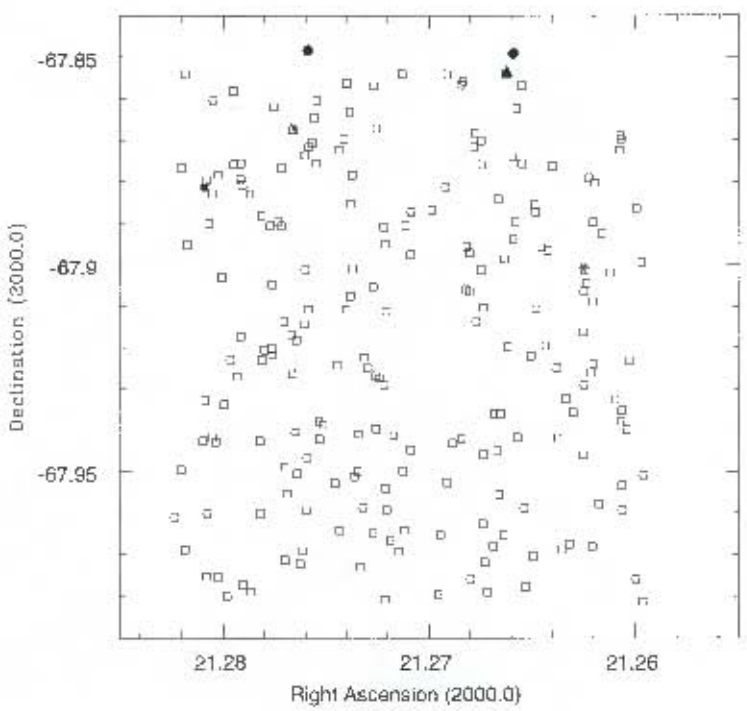

Figure B.9: Plot of content of Pavo p1m1 field.
The open squares are SExtractor detected galaxies, the solid circles are X-ray sources, the asterisks are QSOs, the solid square is a radio source and the solid triangles are NED galaxies.

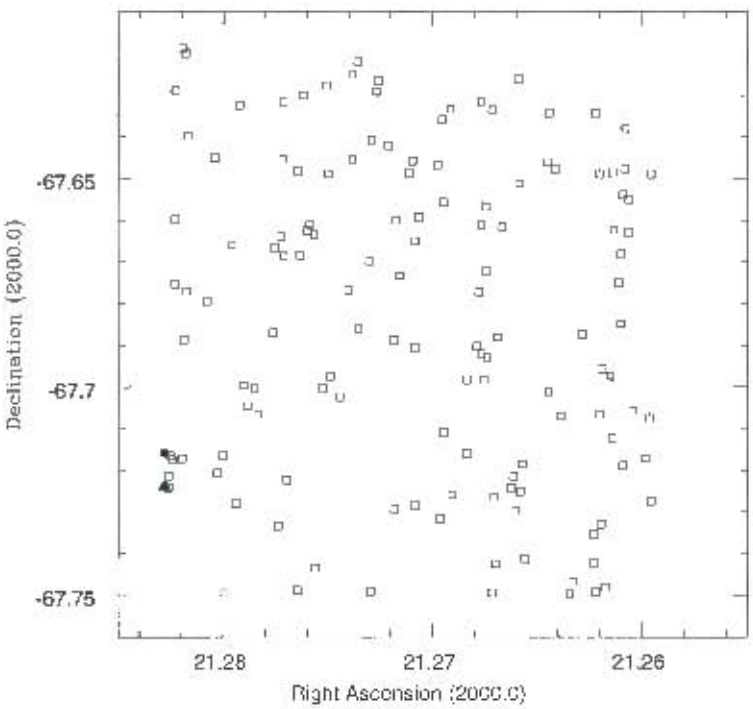

Figure B.10: Plot of content of Pavo p1p1 field.
The open squares are SExtractor detected galaxies, the solid square is a radio source and the solid triangle is a NED galaxies.

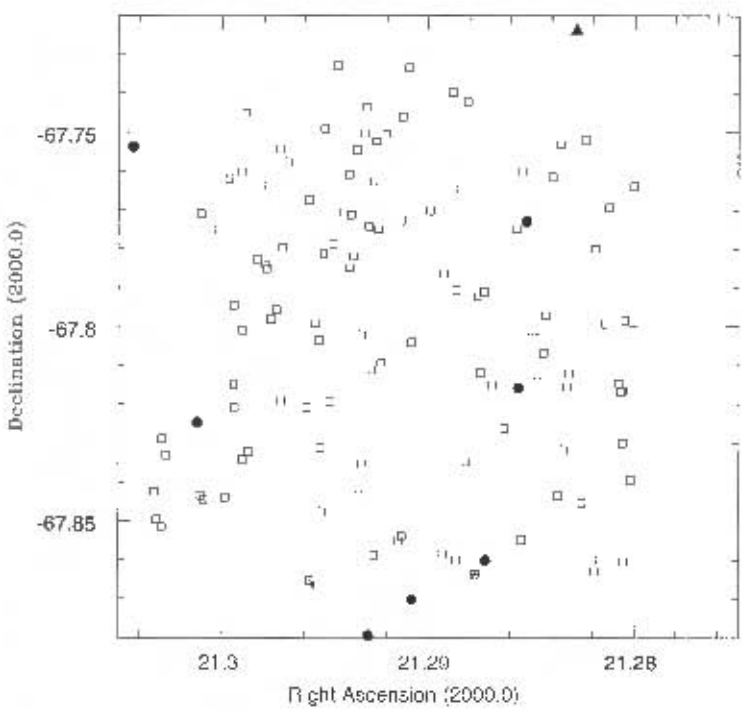

Figure B.11: Plot of content of Pavo p2p0 field.
The open squares are SExtractor detected galaxies, the solid circles are X-ray sources, the asterisks are QSOs and the solid triangle is a NED galaxy.

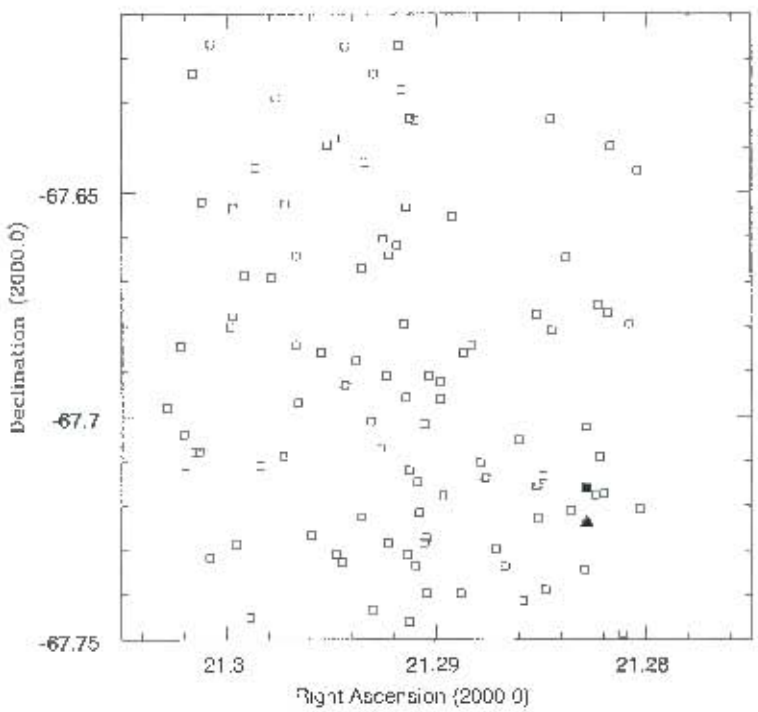

Figure B.12: Plot of content of Pavo p2p1 field.
The open squares are SExtractor detected galaxies, the solid square is a radio source and the solid triangle is a NED galaxy.

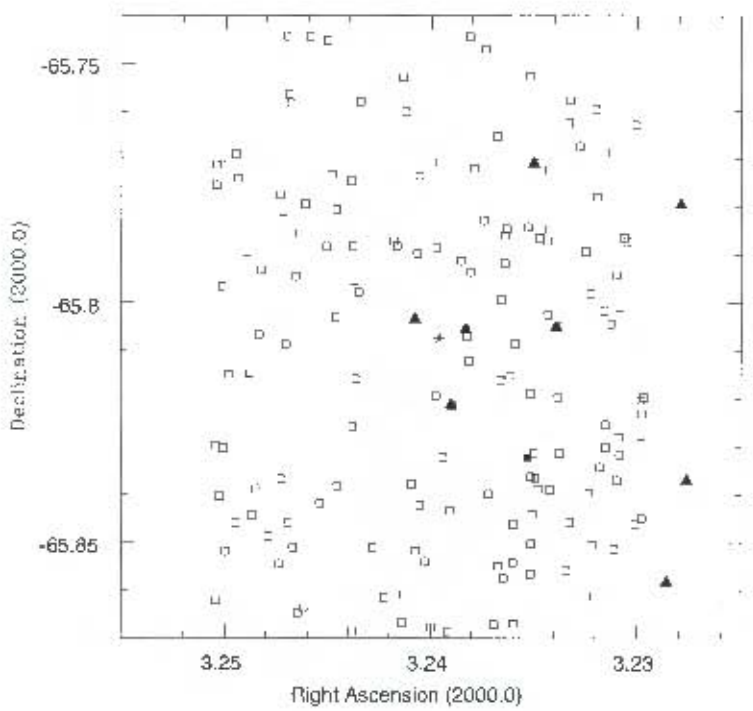

Figure B.13: Plot of content of IRSF p0p0 field.
The open squares are SExtractor detected galaxies, the asterisk is a QSO, the solid square is a radio source and the solid triangles are NED galaxies.

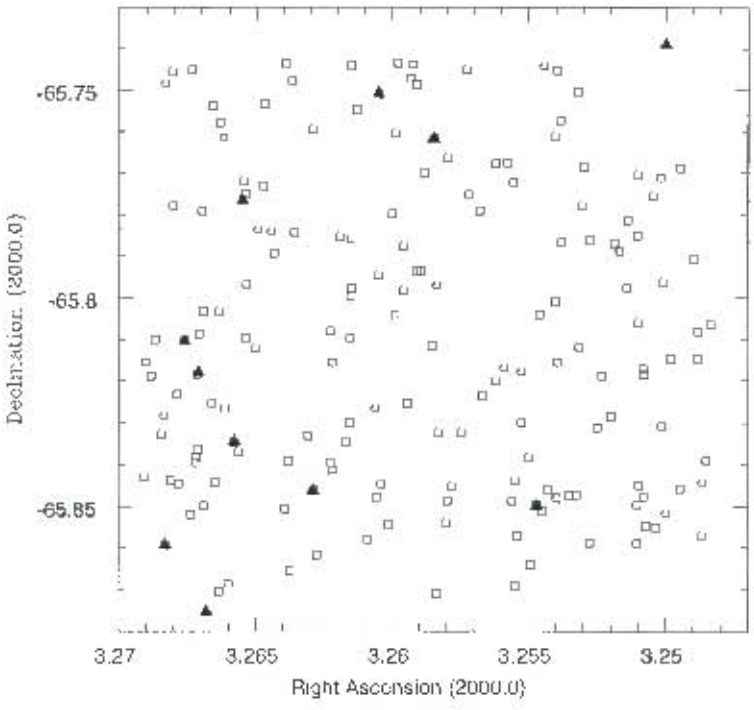

Figure B.14: Plot of content of IRSF p1p0 field.
The open squares are SExtractor detected galaxies and the solid triangles are NED galaxies.

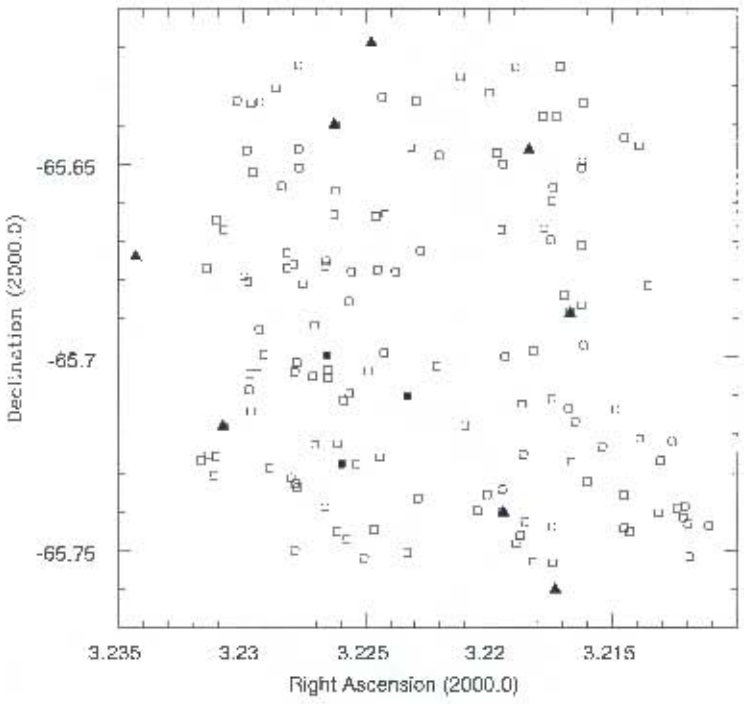

Figure B.15: Plot of content of IRSF m1p1 field.
The open squares are SExtractor detected galaxies, the solid squares are radio sources and the solid triangles are NED galaxies.

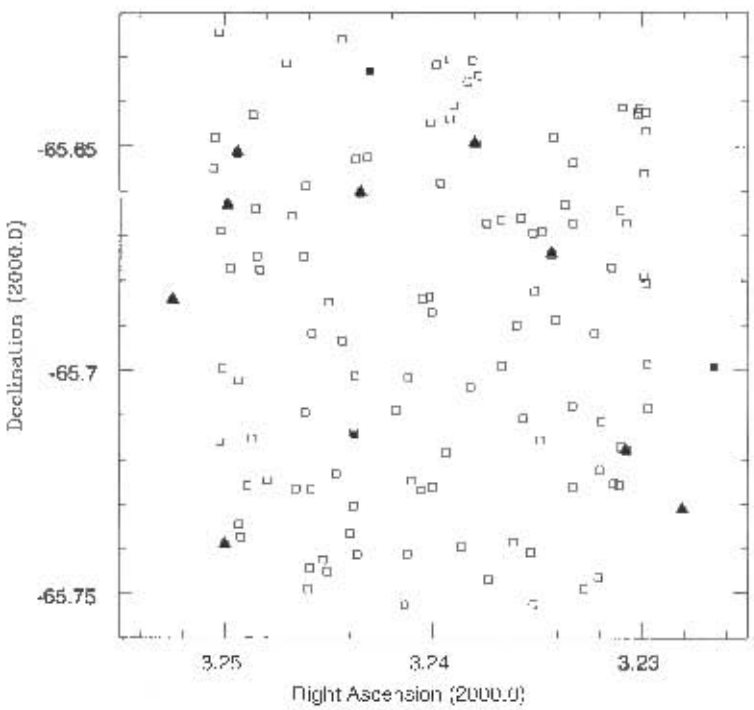

Figure B.16: Plot of content of IRSF p0p1 field.
The open squares are SExtractor detected galaxies, the solid squares are radio sources and the solid triangles are NED galaxies.

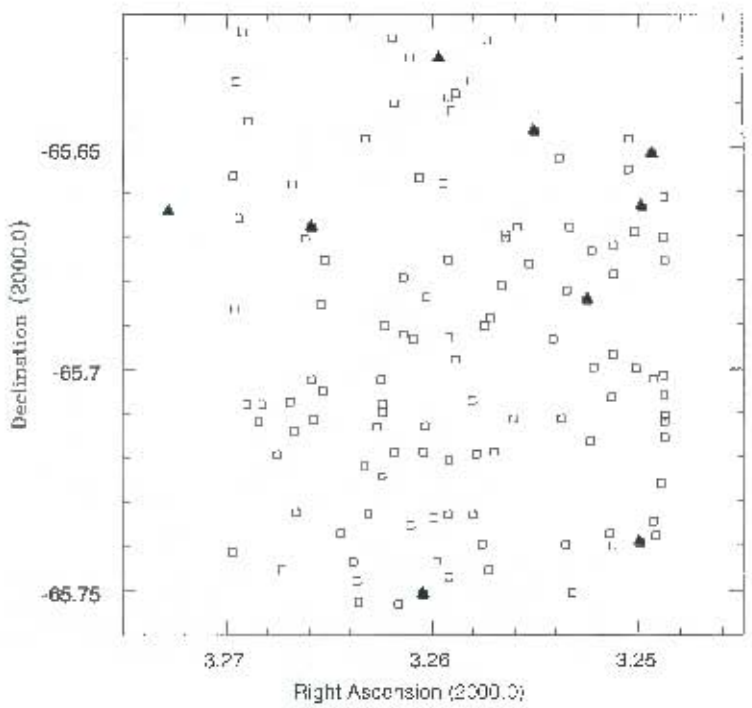

Figure B.17: Plot of content of IRSF p1p1 field.
The open squares are SExtractor detected galaxies and the solid triangles are NED galaxies.

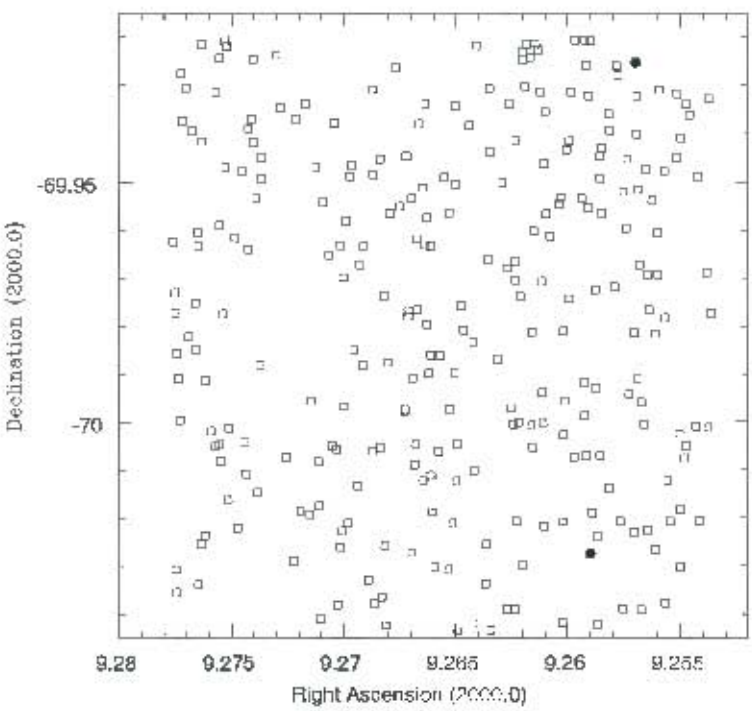

Figure B.18: Plot of content of Afield p1p0 field.
The open squares are SExtractor detected galaxies and the solid circles are X-ray sources.

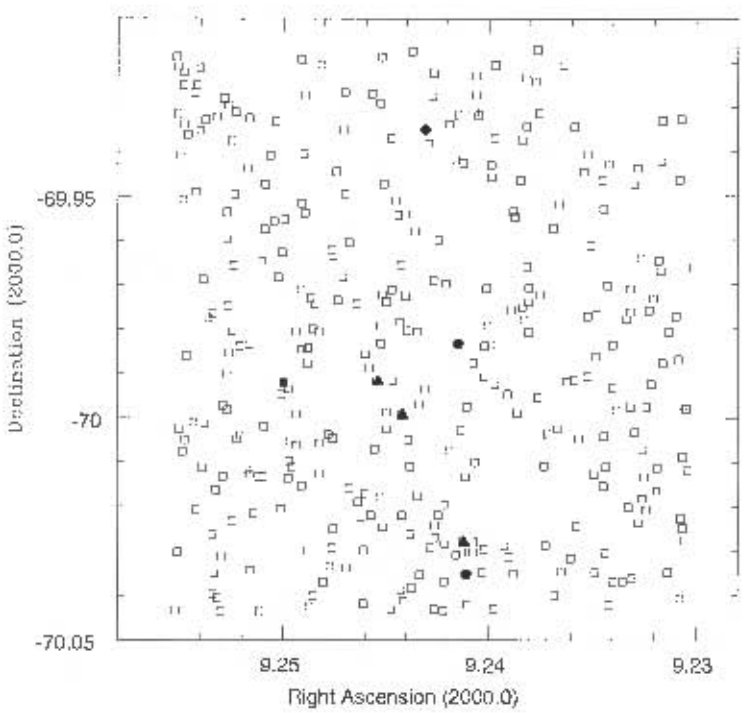

Figure B.19: Plot of content of Afield p0p0 field.
The open squares are SExtractor detected galaxies, the solid circles are X-ray sources, the solid square is a radio source and the solid triangles are NED triangles.

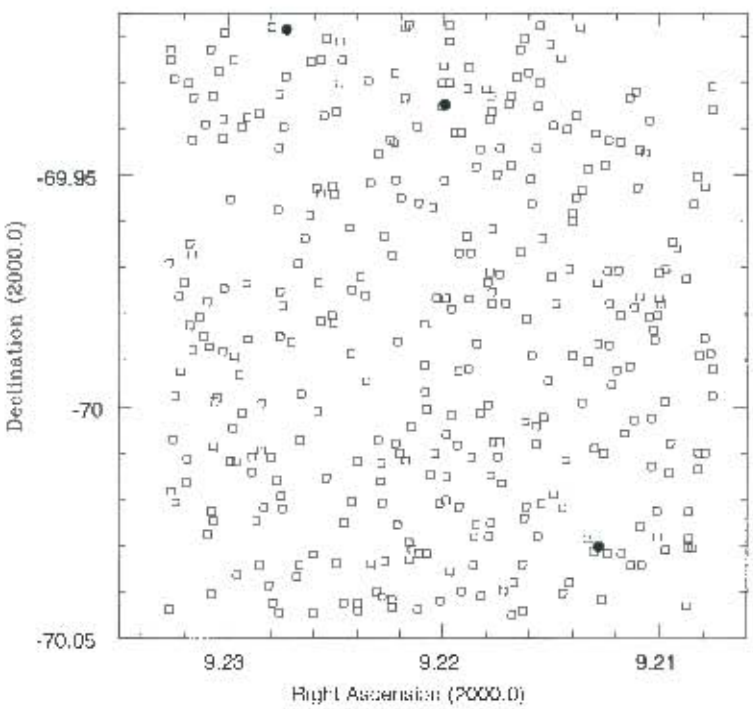

Figure B.20: Plot of content of Afield m1p0 field.
The open squares are SExtractor detected galaxies and the solid circles are X-ray sources.

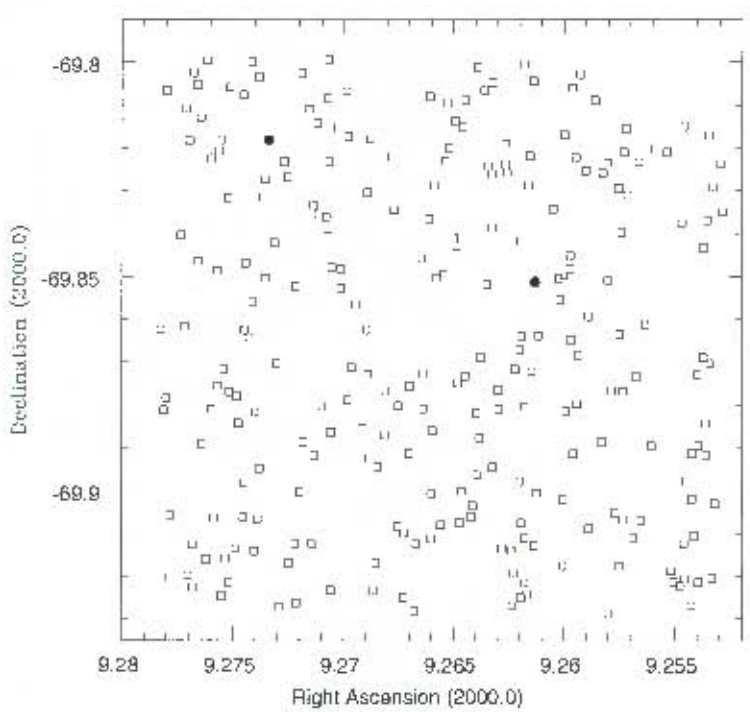

Figure B.21: Plot of content of Afield p1p1 field.
The open squares are SExtractor detected galaxies and the solid circles are X-ray sources.

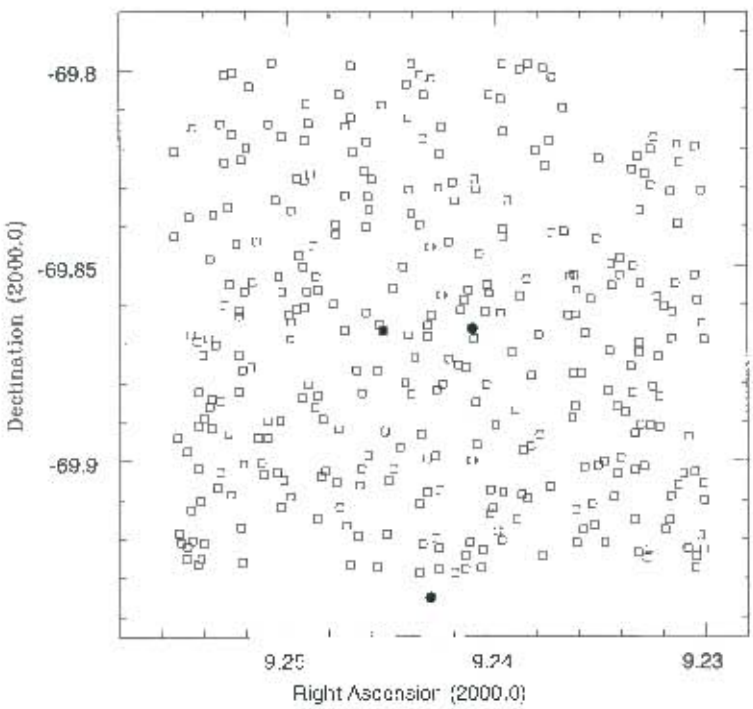

Figure B.22: Plot of content of Afield p0p1 field.
The open squares are SExtractor detected galaxies, the solid square is a radio source and the solid circles are X-ray sources.

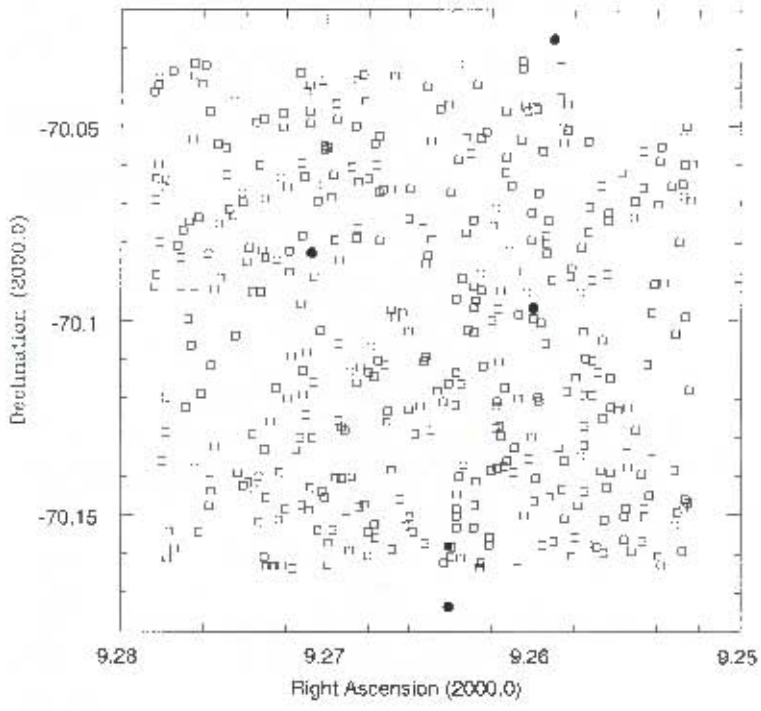

Figure B.23: Plot of content of Afield pIm1 field.
The open squares are SExtractor detected galaxies, the solid square is a radio source and the solid circles are X-ray sources.

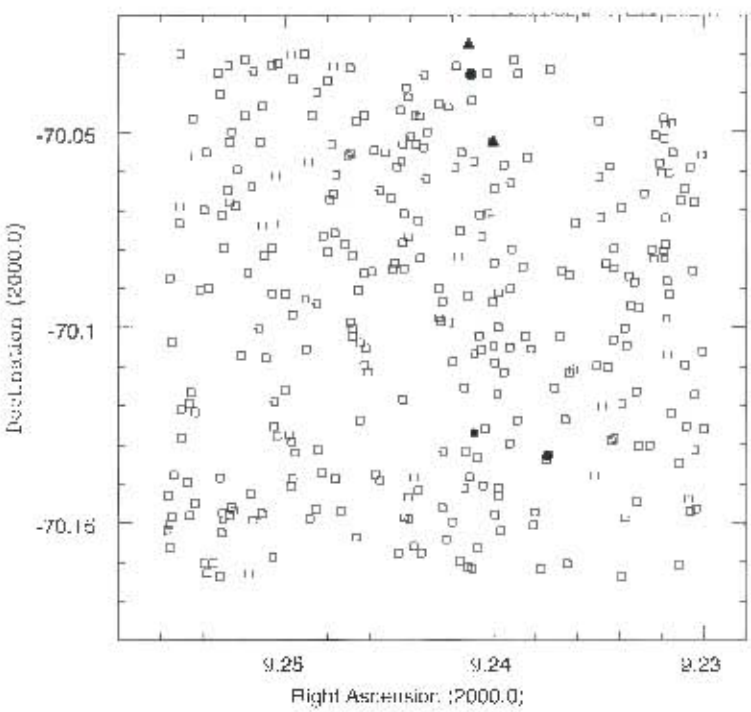

Figure B.24: Plot of content of Afield p0m1 field.
The open squares are SExtractor detected galaxies, the solid square is a radio source, the solid circles are X-ray sources and the solid triangles are NED galaxies.

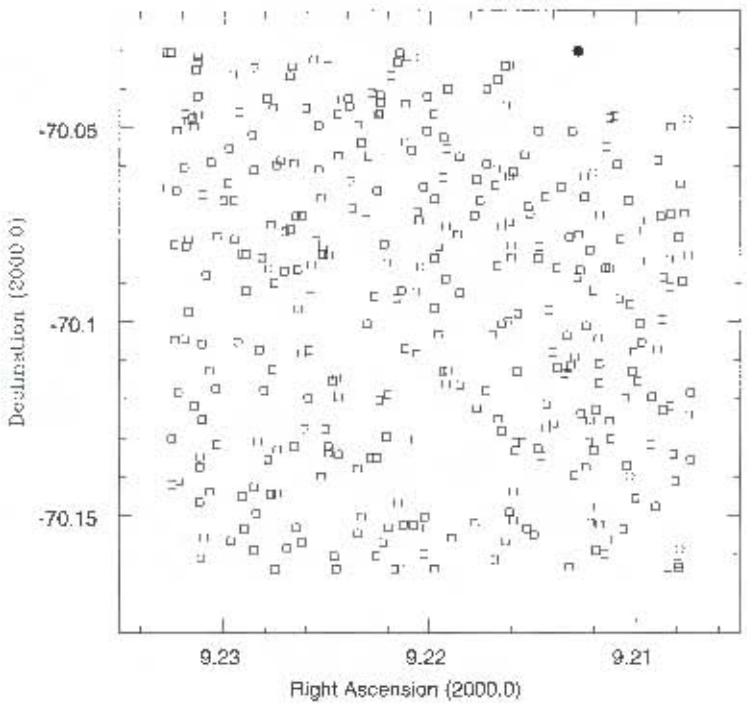

Figure B.25: Plot of content of A field m1m1 field.
The open squares are SExtractor detected galaxies and the solid circle is an X-ray source.

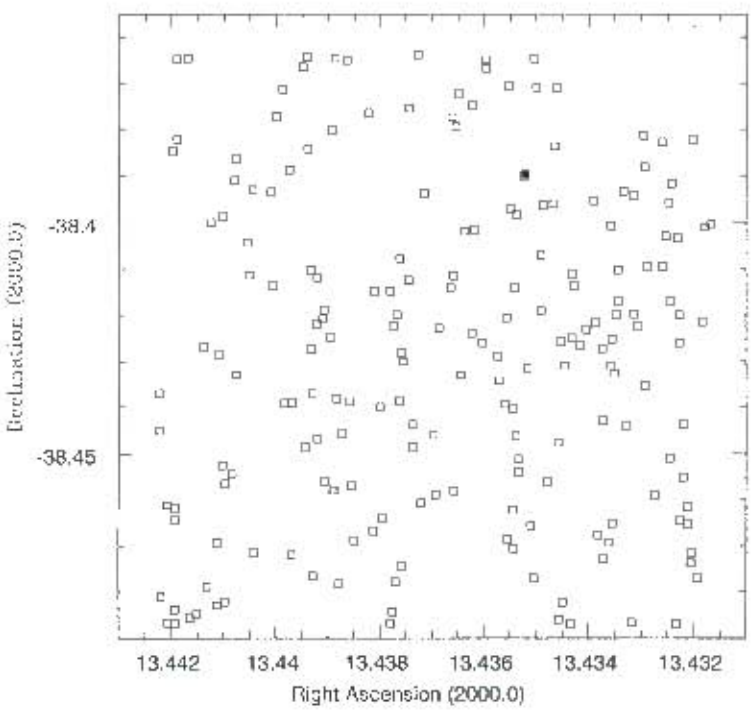

Figure B.26: Plot of content of Bfield p1p0 field.
The open squares are SExtractor detected galaxies and the solid square is a radio source.

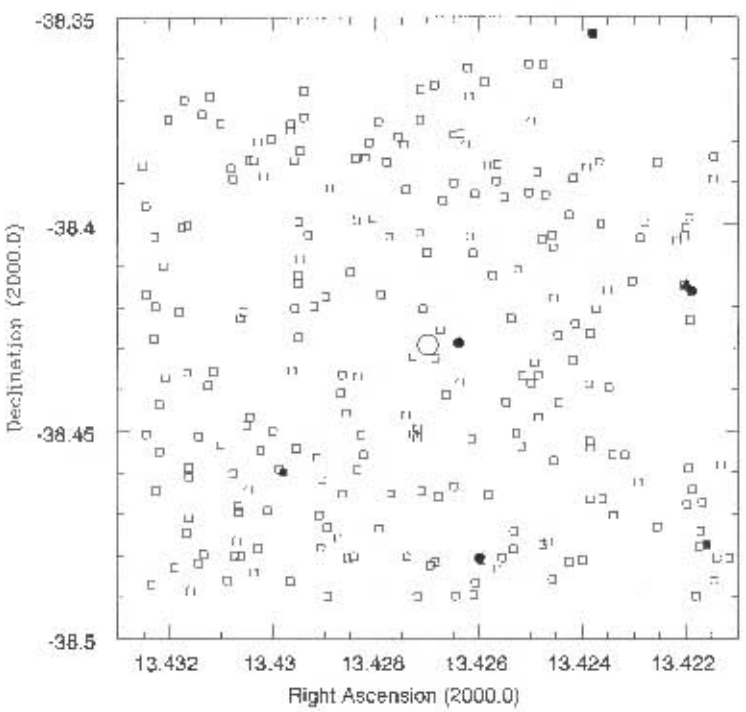

Figure B.27: Plot of content of Bfield p0p0 field.
The open squares are SExtractor detected galaxies, the solid squares are radio sources, the solid circles are X-ray sources, the open circle is a galaxy cluster and the solid triangle is a NED galaxy.

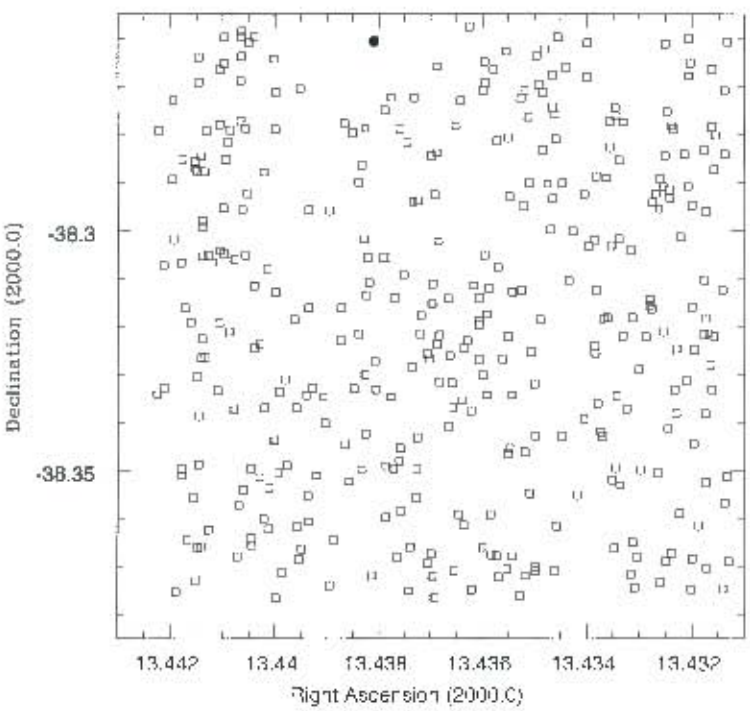

Figure B.28: Plot of content of Bfield p1p1 field.
The open squares are SExtractor detected galaxies and the solid circle is an X-ray source.

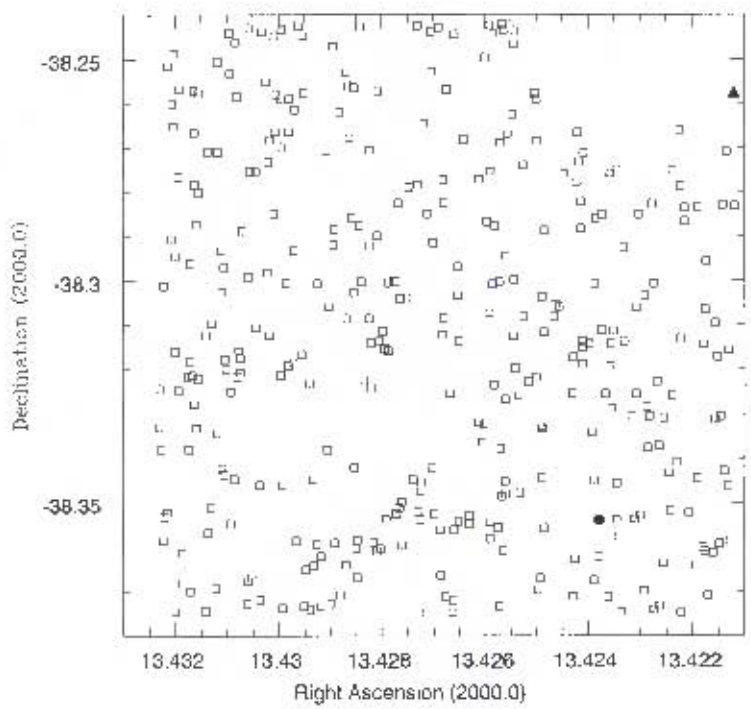

Figure B.29: Plot of content of Bfield p0p1 field.
The open squares are SExtractor detected galaxies, the solid circle is an X-ray source and the solid triangle is a NED galaxy.

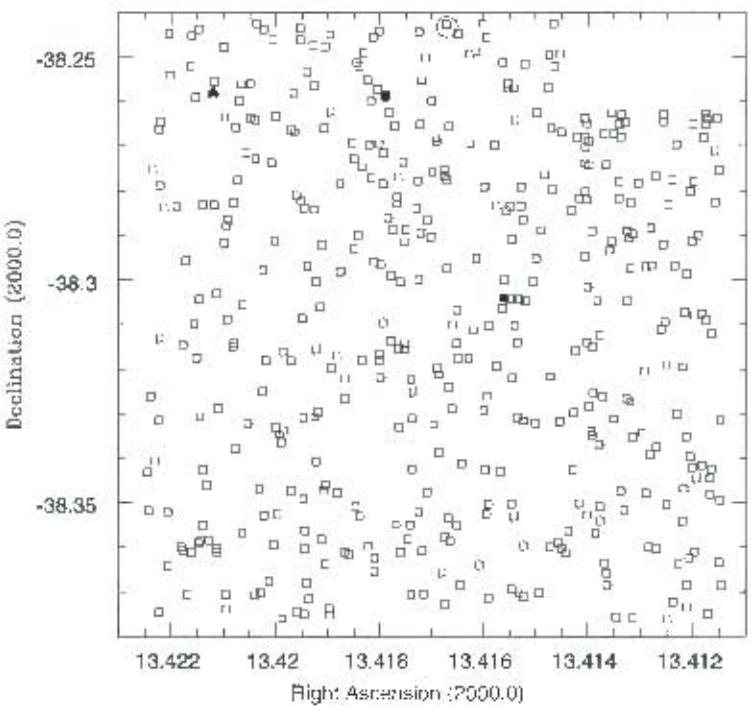

Figure B.30: Plot of content of Bfield m1p1 field.
The open squares are SExtractor detected galaxies, the solid square is a radio source, the solid circle is an X-ray source, the open circle is a galaxy cluster and the solid triangle is a NED galaxy.

Appendix C

2MASS Extended Sources

C.1 Sample of 2MASS Extended Sources compared to IRSF detections

This is a sample of 2MASS Extended Sources compared to the IRSF detections. It's important to bear in mind that 2MASX is an extended source catalogue and not a galaxy catalogue.

C.1.1 2MASX J21151670-6751444

Table C.1: Comparison between 2MASX and IRSF

	2MASX	IRSF
RA	318.8196	318.8198
Dec	-67.8623	-67.8624
J mag	15.043	15.755
J mag error	0.189	0.005
H mag	14.977	15.460
H mag error	0.000	0.006
Ks mag	14.017	15.434
Ks mag error	0.241	0.018

Comparing Figure C.1 and C2 we can see that 2MASS has blended two objects into one and labeled it an extended source. On the IRSF image we can clearly see them as two separate sources. SExtractor has classified the object as a star (stellarity of 0.98).

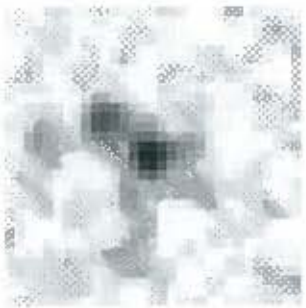

Figure C.1: 2MASS J-H-Ks composite for 2MASX J21151670-6751444

Figure C.2: IRSF J-H-Ks composite for 2MASX J21151670-6751444

C.1.2 2MASX J21143156-6755510

Table C.2: Comparison between 2MASX and IRSF

	2MASX	IRSF
RA	318.6315	318.6309
Dec	-67.9309	-67.9311
J mag	15.664	15.360
J mag error	0.155	0.005
H mag	14.313	14.683
H mag error	0.199	0.005
Ks mag	13.815	14.222
Ks mag error	0.230	0.010

2MASS has blended a star and a very faint galaxy into one extended source as can be seen in Figure C.3 compared to Figure C.4. The IRSF image shows the star on the left and the spiral galaxy on the right. SExtractor classified the object as a star (stellarity index of 0.90) and with the IRSF resolution it is clear that we are not dealing with an extended source.

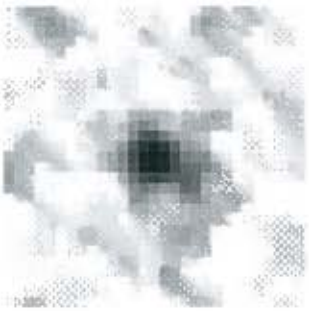

Figure C.3: 2MASS J-H-Ks composite for 2MASX J21143156-6755510

Figure C.4: IRSF J-H-Ks composite for 2MASX J21143156-6755510

C.1.3 2MASX J21165817-6743259

Table C.3: Comparison between 2MASX and IRSF

	2MASX	IRSF
RA	319.2422	319.2421
Dec	-67.7239	-67.7239
J mag	14.745	14.979
J mag error	0.185	0.006
H mag	14.283	14.280
H mag error	0.323	0.005
Ks mag	13.245	14.007
Ks mag error	0.164	0.014

The 2MASS image is shown in Figure C.5 and the IRSF image in Figure C.6. SExtractor classified this as a galaxy (stellarity 0.03).

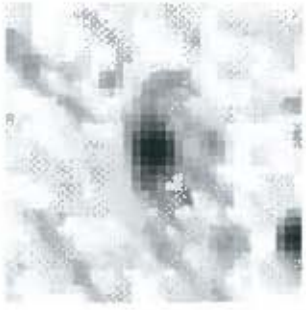

Figure C.5: 2MASS J-H-Ks composite for 2MASX J21165817-6743259

Figure C.6: IRSF J-H-Ks composite for 2MASX J21165817-6743259

C.1.4 2MASX J21142349-6744220

Table C.4: Comparison between 2MASX and IRSF

	2MASX	IRSF
RA	318.5979	318.5984
Dec	-67.7395	-67.7394
J mag	15.941	15.5003
J mag error	0.264	0.007
H mag	14.446	14.855
H mag error	0.201	0.007
Ks mag	13.954	14.461
Ks mag error	0.234	0.017

Looking at Figures C.7 and C.8 we can see that we are dealing with an extended source. SExtractor classified this as a galaxy (stellarity 0.02)

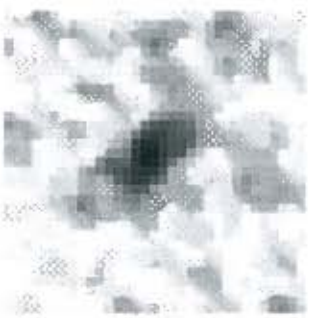

Figure C.7: 2MASS J-H-Ks composite for 2MASX J21142349-6744220

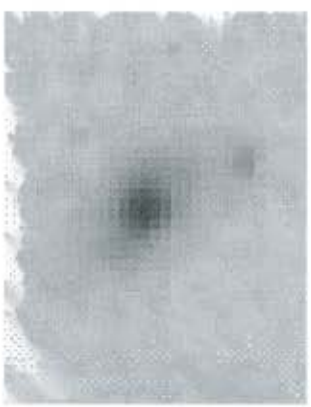

Figure C.8: IRSF J-H-Ks composite for 2MASX J21142349-6744220

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