

Sedimentology of the Cape Town boulder beds



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DECLARATION

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ABSTRACT

Gravelly sediment layers in fossil beaches around the Cape Peninsula and False Bay in South Africa are assumed to be Pliocene in age and are essential for reconstructing the ancient sedimentary dynamics along the shoreline in the greater Cape Town region. The cobble- to boulder-size clasts in these fossil beaches point to a genesis that can be linked to the erosion of local rocky shores during hurricanes and “super storms”. This mode of formation seems similar to the Pliocene fossil beaches located at different elevations around the world (aka ‘the Pliocene sea-level paradox’). Although mapped c. 100 years ago, to date, no modern sedimentological study has been conducted on Cape Town’s fossil beaches. Clast characteristics (e.g., clast size, sorting, roundness, composition) of the gravelly layers had been quantified in the field and by the processing of field images using ImageJ software. Our results show that the fossil beaches are dominated by cobble-sized orthoquartzite clasts and display a variety of percussion marks. Originating locally from the Ordovician Peninsula Formation, these clast-supported, rounded clasts decrease in size from east to west, with the maximum clast diameter of $>3.2\text{m}$ being recorded at Kogel Bay in False Bay. While this sedimentological study of Cape Town’s fossil beaches elucidates the ancient marine dynamics during their genesis, linking them with other Pliocene fossil beaches requires further investigation through their age assessment. Irrespective of their age, the sedimentological properties and stratigraphic position of the fossil beaches above the modern sea level show that during sedimentation not only was the relative sea level higher by up to 30 m, but also that these deposits formed in powerful marine events that are often associated with rising global temperatures.

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1. INTRODUCTION

In recent years, there has been an increase in the examination of clastic palaeo-beach deposits as they offer valuable insights into regional coastal dynamics and serve as a record of sea level fluctuations, which can be a consequence of global climatic changes. Raised palaeo-beach deposits, which are the focus of the study, are indicators of high sea levels in the past geological periods, and their main elevation above sea level is attributed to a combined effect of local tectonic movements and eustasy (global changes in sea level; Siesser and Dingle, 1981; Catuneanu, 2006). Therefore, analysing the sedimentary features (size, sorting, roundness, matrix content, sedimentary and surface structures, etc.) of palaeo-beach deposits, in conjunction with their altitude, provide data not only on palaeo-marine conditions but also the magnitude and potential causes of past sea-level changes.

This research examines pre-Holocene coarse-grained clastic sediment layers found in marine terraces in the greater Cape Town area of South Africa, specifically two sites in the west of the Cape Peninsula and the other two around False Bay (Figure 1.1). These deposits are classified as boulder beaches due to their composition of clasts ranging from cobble to boulders (McKenna, 2005). Gaining a comprehensive understanding of how these boulders were transported and deposited in dynamic coastal environments is critical for comprehending the erosive impacts of extreme wave events such as tsunamis, storms and tropical cyclones, in which boulder beaches can undergo morphodynamic changes (Oak 1981; Felton, 2002; Nichols, 2009). Furthermore, the sedimentological characterization of the deposits provides clues about whether the clasts were carried by tsunami or storm waves, allowing some wave properties to be predicted (Nott, 2003; Imamura et al., 2008; Sztanó et al., 2020).

Despite extensive research on palaeo-beaches and boulder-dominated deposits worldwide (e.g., Hall et al., 2006; Goto et al., 2009; Hayes et al., 2010; Etienne et al., 2011; Rovere et al., 2017; Galindo et al., 2021), including the western and eastern coasts of South Africa (e.g. Salzmann and Green, 2012; Bordy and America, 2016; Green et al., 2016), those around Cape Town were only mapped in the early 1900s and have not been the subject of any modern sedimentological studies until today (Krige, 1927; Haughton, 1933). These deposits, which have not been dated

by modern radioisotopic methods, are assumed to have formed during the Pliocene and Pleistocene epochs (Krige, 1927; Haughton, 1933).

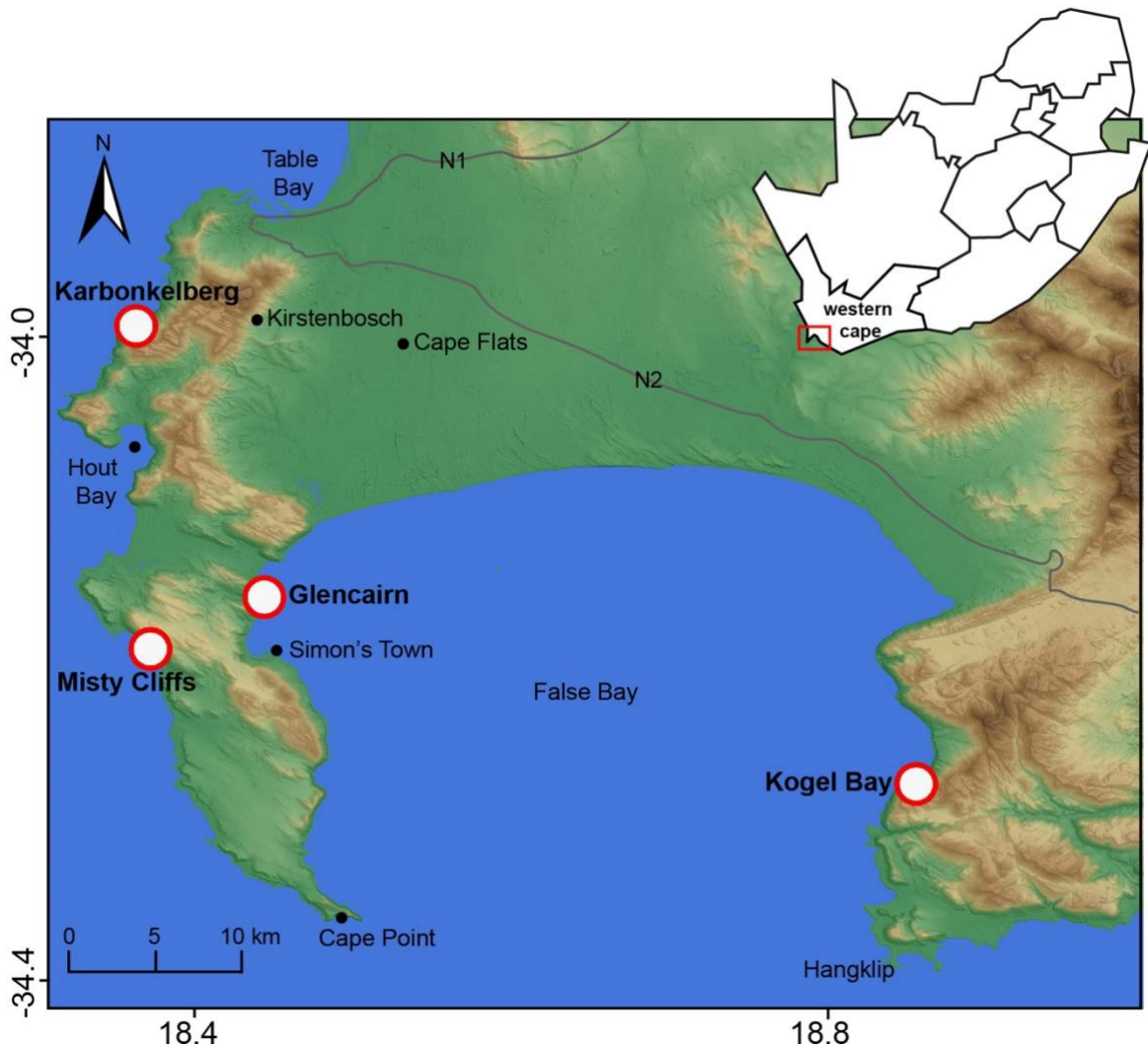


Figure 1.1. Study sites marked with red circles on a topographic map of the Cape Town region (Western Cape, South Africa).

Accepting this age to be valid makes these Cape deposits particularly interesting, because the increased global temperatures and subsequent rise in sea level in the Pliocene led to a higher frequency of intense storms and tropical cyclones, which resulted in erosion, transportation and deposition of boulder-sized clasts (Fedorov et al., 2010; Rovere et al., 2017; Hearty et al., 2020; Kiehl et al., 2021). However, there is an intriguing discrepancy between the elevations at which palaeo-beaches are found worldwide and the mid-Pliocene sea levels predicted by climate models (aka ‘the Pliocene sea-level paradox - Rovere et al., 2017; Hearty et al., 2020). By

studying Cape Town's boulder beaches, this research aims to contribute to clarifying the palaeo-sea level contradiction. Moreover, it will enhance our understanding of how coasts might respond to future extreme wave events if atmospheric conditions similar to those in the Pliocene were to occur again near future.

1.1. Aims of study

The primary objective of this research project is to reveal the morphodynamic conditions under which boulder beaches formed in four different sites around Cape Town (Figure 1.1) through a comprehensive field-based sedimentological study. More specifically, this study aims to 1) document the sedimentary facies of boulder beaches using modern sedimentological techniques; 2) interpret the sedimentological processes that formed the boulder beaches; 3) estimate the power (energy) of the waves required to transport the boulders; 4) identify the type of extreme wave event (tsunami or storm) the sediments may have been carried by; 5) refine the Plio-Pleistocene sea-level history of the greater Cape Town area.

1.2. Structure of thesis

This thesis consists of six chapters. After Chapter 1, that is, the Introduction, Chapter 2 describes the geology of the region where the studied palaeo-beaches are located and summarizes the Pliocene epoch, including its extreme marine conditions. Chapter 3 explains how the study used clast counting and hydraulic modelling to decipher the clues in the target boulder beds about the conditions during their transportation and deposition. Chapter 4 presents the sedimentological properties of the boulder beds, as well as the estimated properties of the waves that may have moved them, obtained using the hydrodynamic estimation formula. Chapter 5 provides the discussion of the results, by explaining their meaning and comparing them to the relevant peer-reviewed literature. Chapter 6 concludes with a summary of the key points of the project, including the results achieved, their contribution to a better understanding of the geology of the Cape Town palaeo-beaches, and makes recommendations for future studies.

2. GEOLOGICAL BACKGROUND

2.1. Regional Geology

The geological history of southwestern South Africa involves numerous tectonic events that contributed to the creation and subsequent breakup of supercontinents. The oldest geological formation in Cape Town, Malmesbury Group, originated from the accumulation of muddy sediments into the Adamastor Sea between the South American and African continents roughly 600 Ma (**Error! Reference source not found.a**; Viljoen, 2016). Subsequently, during the Late Precambrian around 550 million years ago, plate movements that resulted in the collision of the Indian and Madagascar continents and then the African, Arabian, South American, Australian and Antarctic continental plates, led to the formation of the supercontinent Gondwana, while the Adamastor Sea closed (Hartnady et al., 1985; Meert and Van der Voo, 1997; Trompette, 2000).

As the South American, Antarctic and African continents collided during the formation of Gondwana, there was partial melting as the old oceanic crust of the Adamastor Sea submerged into the mantle (**Error! Reference source not found.b**; Meert and Van der Voo, 1997; Trompette, 2000). This resulted in metamorphosis as the Malmesbury shale experienced high temperatures caused by the rising Cape Granite magma (Scheepers and Schoch, 2006), locally transforming the shale into hornfels (Compton, 2004). Dated to 550 Ma, the crystalline texture of the Cape Granite Suite includes brown quartz, mica, large pink and white feldspars, and black Malmesbury clasts as xenoliths (Theron, 1984).

The Malmesbury Group and Cape Granite were uplifted by tectonic forces during the Pan African Event (Stern, 1994; Belcher and Kisters, 2003), resulting in their exposure after a time span of approximately 50–60 Ma (Scheepers and Schoch, 2006). This also led to the formation of an erosion platform on which new sediments could accumulate (Compton, 2016). The deposition process took place in a passive margin setting, mostly under marine conditions and gave rise to the Cape Supergroup (490–330 Ma), consisting of a substantial sand-dominated depositional unit that is around 10 km thick, and which unconformably overlies the

Malmesbury Group and Cape Granite Suite in the Cape Town region (**Error! Reference source not found.**; Dingle et al., 1983; Thamm and Johnson, 2006).

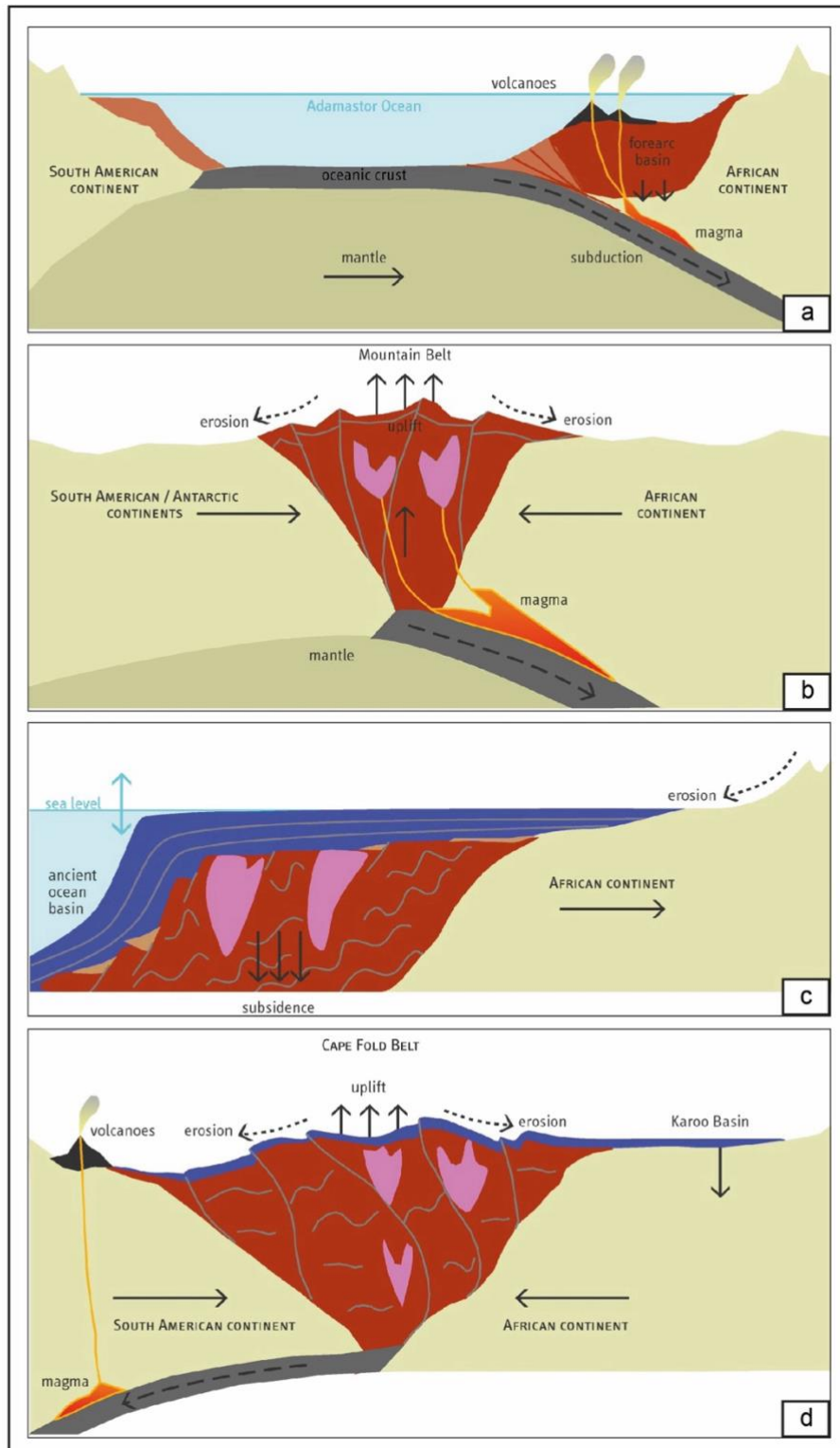


Figure 2. 1. a) Deposition of Malmesbury in the Adamastor Sea between South America and Africa b) Uplift of the Cape Granite when the Adamastor Sea closed c) Deposition of Cape Supergroup on granite-intruded Malmesbury rocks d) Deformation of the Malmesbury and Cape Supergroup rocks by the Cape Fold belt. Figures adopted from Compton (2004).

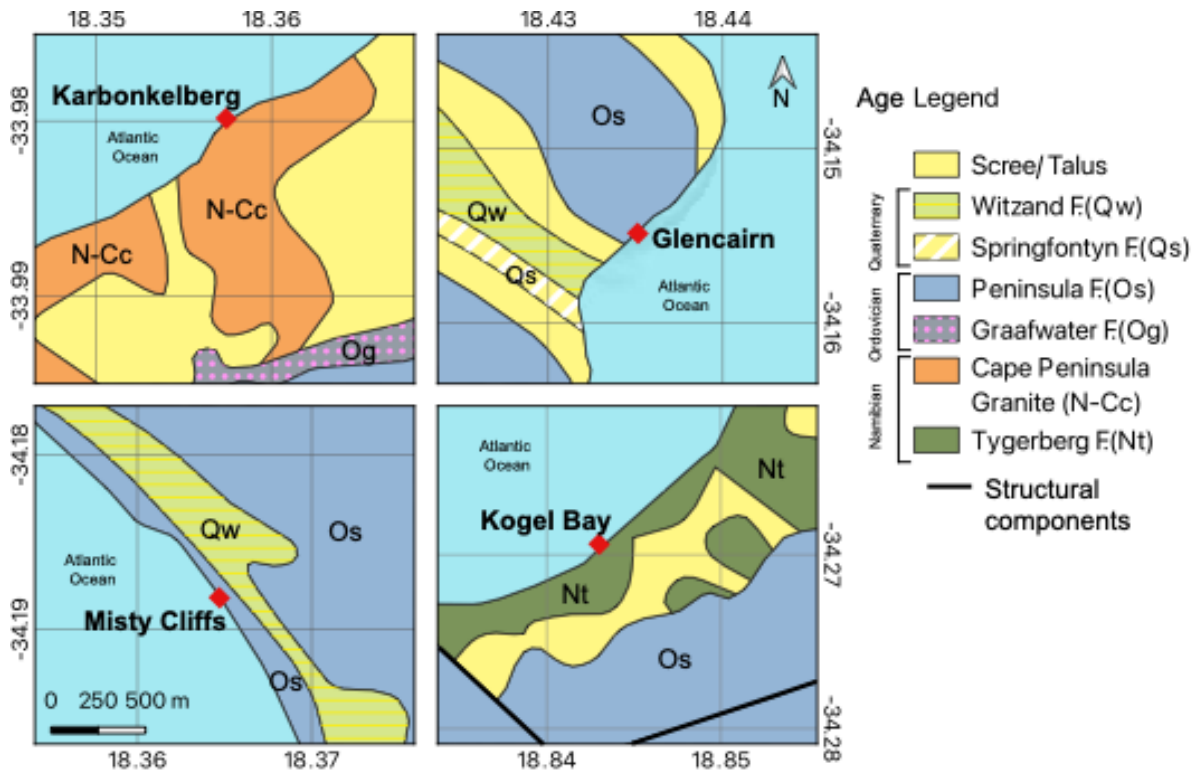


Figure 2. 2. Simplified geological map of the study area and the location of the four fossil beach deposit sites. (Note the WGS84 coordinate system is used and the maps are 1:25000)

The boulder beds being examined in this study originate from rocks of the Peninsula Formation, a major unit within the lower Cape Supergroup (i.e., Table Mountain Group). With a substantial thickness of around 2700 meters, this formation is known for hosting one of the largest assemblages of quartz-dominated sandstones (quartzites) in the world (Visser, 1974; Thamm and Johnson, 2006). The Lower-Middle Ordovician Peninsula Formation comprises tabular layers of predominantly quartz arenite (~740 m thick), which is a type of sandstone primarily made up of quartz (>95%) (Thamm and Johnson, 2006; Flemming, 2016). This formation, which also contains occasional thin conglomerate layers with well-rounded pebbles, is highly fractured (Theron et al., 1992:29; Xu et al., 2009), light grey in colour, and consists of supermature, medium- to coarse-grained sand grains (Visser, 1974; Shone and Booth, 2005). The 20 m deep and 300 m wide mega-channels with the formation contain horizontal as well as planar- and trough-crossbedding (Theron, 1984; Turner et al., 2011). The Peninsula Formation, a significant geological unit within the Lower Table Mountain Group, has sparked debate over its depositional history. Initial evidence suggested sporadic marine influence,

challenging the generalized tidally influenced marine depositional model. Subsequent studies reinforced evidence, like consistent palaeocurrent directions, countering a primarily marine environment (Flemming, 2016). More recently, Turner et al. (2011) proposed an alternative model linking the Peninsula Formation to upward-fining, mostly braided fluvial facies associated with global sea-level changes driven by glacio-eustacy. However, discrepancies in the depositional ages of the units within the Cape Basin complicate this interpretation, and so do the timing of the Ordovician glacio-eustatic changes (Miall, 2016).

Outside the study area, the Cape Supergroup (490 – 330 Ma) (Compton, 2004), is overlain by the Carboniferous-Jurassic-aged Karoo Supergroup, which has a cumulative thickness of c. 12 km and hosts many famous tetrapod fossils, including bones and footprints of dinosaur (Choiniere and Rubidge, 2016). During the formation of the main Karoo Basin and at the time of Pangaea's assembly, the Cape Fold Belt was generated as part of the Pan-Gondwanan fold belt system (**Error! Reference source not found.**; Catuneanu et al., 1998; Compton, 2004; Newton et al., 2006). This mountain-building event caused faulting and deformation of the Cape Supergroup and younger Karoo Supergroup that were still being deposited at that time (Catuneanu et al., 1998; Newton et al., 2006). The durability of orthoquartzite in the Peninsula Formation is attributed not only to its high quartz content but also to the well-developed crystalline structures resulting from the low-grade regional metamorphism during the Cape Orogeny (Pettijohn, 1987; Shone and Booth, 2005).

2.2. Sea level changes during post-Miocene and raised beaches around Cape Town

The raised-beach deposits found at different elevations on the western coast of South Africa indicate fluctuations in relative sea level during the Neogene (Tankard et al., 1982; Hearty et al., 2020). The causes of these changes in sea level are attributed mostly to glacio-eustacy or tectono-eustacy, which have had a global impact beyond South Africa (Siesser and Dingle, 1981). Glacio-eustacy refers to the melting and accumulation of glaciers during interglacial and glacial periods, respectively, while tectono-eustacy involves changes in ocean basin

capacity due to the uplift or collapse of the mid-ocean ridge system, among others (Siesser and Dingle, 1981).

Seismic profiles conducted along the western and southern coasts of South Africa have identified a notable transgression in this region during the late Miocene to early Pliocene (Dingle, 1971). Based on the vertebrate fossils found in the regressive fluvial sands of the Varswater Formation in Saldanha Bay, it was thought that this transgression was interrupted by a short-time regression during the Miocene-Pliocene transition (Siesser and Dingle, 1981). By the mid-Pliocene period, climate change had caused a rise in sea level of approximately 25 meters compared to present-day levels (Dolan et al., 2011), as evidenced by observations from raised-beach deposits (Hearty et al., 2020) and large coastal dunes (Compton, 2004). In addition, there are marine terraces at 50 meters and 30 meters, which Pickford (1998) determined as early Pliocene and late Pliocene based on their fossil content. During the Pliocene-early Pleistocene transition, there was a drop in sea levels caused by the expansion of Northern Hemisphere ice sheets that reached its greatest extent in the late Pleistocene (Last Glacial Maximum (LGM); Siesser and Dingle, 1981). Studies have been conducted in the world and in the South African region revealed that during the LGM sea levels were around 125 meters lower than today (Clark and Mix, 2002; Compton et al., 2002; Green and Uken, 2005; Cooper et al., 2018).

Besides raised beaches with disputed ages, boulder beaches have been identified around Cape Town. Haughton (1933) mentioned marine terraces at Miller's Point and Steenbras Mouth characterized by well-rounded boulders found about 18 and 21 meters above main sea level, respectively. Similar rounded boulders were observed in the Kommetjie and Scarborough areas at an elevation of around 7-10 meters (Theron et al., 1992). However, during this current investigation, the boulder beaches at lower elevations were found to be poorly exposed and strongly modified by human activity, and thus were not included in the study.

2.3. A brief history of the Pliocene Epoch

The Pliocene, which lasted 2.75 million years (**Error! Reference source not found.**), began with relatively warmer climates but transitioned to cooler climates that dominated the Pleistocene, which was then characterized by high-magnitude glacial-interglacial oscillations (Salzmann et al., 2011). During the Early Pliocene, the polar regions experienced surface temperatures so high that there was almost no glacial mass at the North Pole, resulting in sea levels 25 m higher than present and atmospheric CO₂ concentrations of ~400 ppmv (Pagani et al., 2010; Dolan et al., 2011; Fischer et al., 2018).

Eon	Era	Period	Epoch	Age	numerical age(Ma)	
Phanerozoik	Cenozoic	Quaternary	Holocene	Meghalayan	present	
				Northgrippian	0.0042	
				Greenlandian	0.008276	
			Pleistocene	<i>Upper</i>	0.0117	
				Chibanian	0.129	
				Calabrian	0.774	
				Gelasian	1.8	
				Piacenzian	2.58	
				Pliocene	Zanclean	3.6
					Messinian	5.333
		Neogene	Tortonian		7.246	
			Serravallian		11.63	
			Langhian		13.82	
			Burdigalian	15.97		
			Aquitanian	20.44		
		23.03				

Figure 2. 3. The Pliocene in the latest International Geological Time Scale (source: <https://stratigraphy.org/>). The Pliocene epoch is divided into two ages: the Zanclean (5.33 – 3.60 Ma) and the Piacenzian (3.60 – 2.58 Ma). The Plio-Pleistocene boundary refers to the end of the Pliocene epoch, which is succeeded by the Pleistocene epoch.

The mid-Pliocene warm period (3.3 – 3.0 Ma; Dowsett et al., 2010) has been studied for its similarities to current atmospheric conditions in order to predict how the Earth will respond to global warming. It is noteworthy that the mid-Pliocene sea levels suggested by climate models are at odds with the global geological evidence for much higher mid-Pliocene sea levels. This

discrepancy between field evidence and computer modelling is referred to as the "Pliocene sea level paradox" (e.g., Rovere et al., 2014; Hearty et al., 2020) and requires further scrutiny to enhance predictions of future sea-level rise.

Changes in southern oscillations contributed to the Pliocene hot weather conditions, with El Niño being 'permanent' throughout the Early Pliocene. This refers to the warm phase of these oscillations between the atmosphere and the equatorial Pacific Ocean, leading to the absence of stratus clouds, high water vapour concentrations and increased temperatures around the Pacific and globally (Fedorov et al., 2006; Johnson and Ledesma-Vázquez, 2021). The modelling of Lunt et al. (2012) identified high atmospheric CO₂ levels as the primary cause of the warm period.

Stronger tropical cyclones (TCs) in the Pliocene were also found to contribute to global temperature rise (Kossin et al., 2016). Developed over low-latitude oceans, TCs are associated with strong winds that strengthen and generate high wave energies, causing severe beach erosion and intense release of CO₂ from the ocean (Morales, 2022). The Pliocene TCs, which dominated a much wider area (Figure 2.1) and lasted longer than today (Fedorov et al., 2010), increased temperatures at high latitudes as they spread towards the poles (Kiehl et al., 2021). The constant triggering of global temperature increase and TC intensification set the stage for long-term El Niño conditions in the Pliocene (Fedorov et al., 2010).

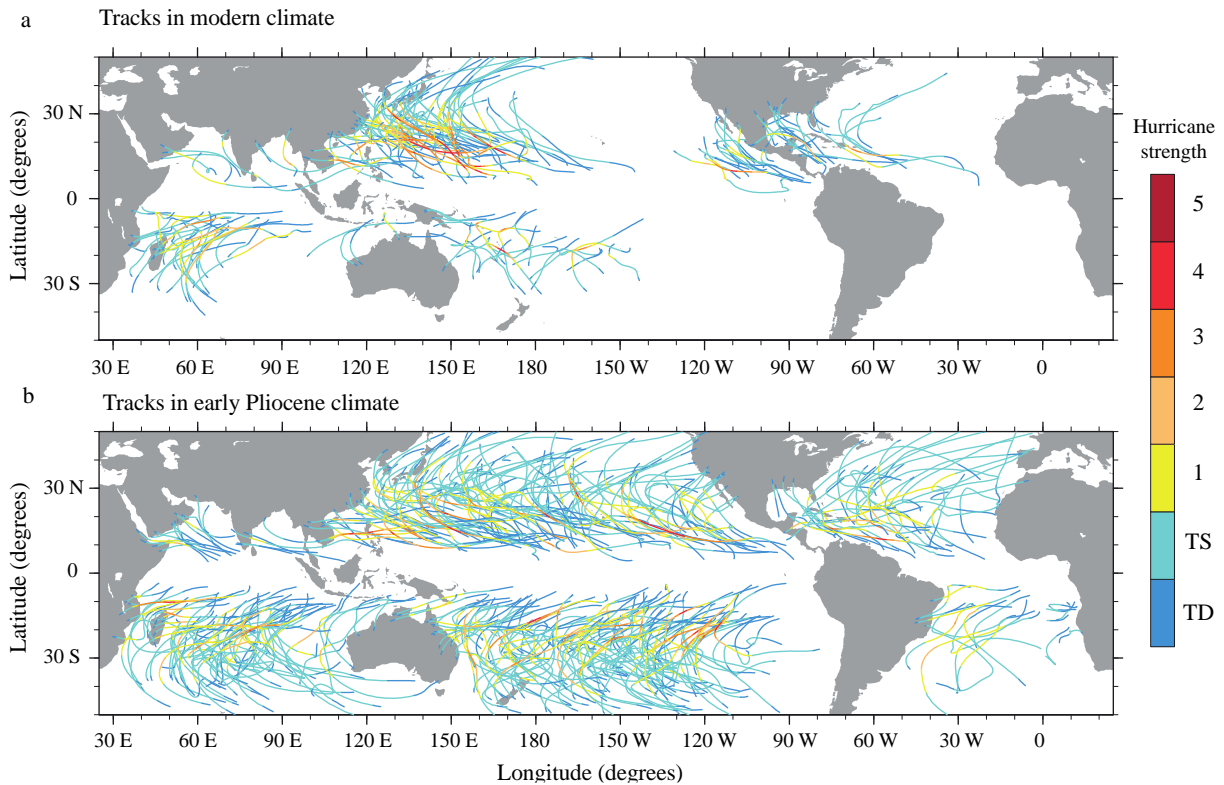


Figure 2.1. Comparison of present-day (a) and early Pliocene (b) tropical cyclones (adopted from Fedorov et al., 2010). While blue colours represent TD (tropical depression) and TS (tropical storm), reds are the strongest hurricanes.

Global temperatures that began to cool after the Pliocene warm period marked the transition from the interglacial to the glacial period. Although there had been glaciations since the Early Pliocene (De Schepper et al., 2014), glaciation began in the Northern Hemisphere at about 3.6 Ma (Mudelsee and Raymo, 2005). The Arctic region experienced dramatic cooling and the North Pole became ice-covered (Dortmans et al., 2018:339) towards the end of the Pliocene at 2.7 Ma (Haug et al., 2005).

It is arguable that the glaciation in the Late Pliocene (3.6 – 2.58 Ma; Dolan et al., 2015) had multiple effects. One of these factors is the termination of the ‘permanent’ El Niño, which caused temperatures to rise at the beginning of the Pliocene (Wara et al., 2005). In addition, the isthmus of Panama formed by the shifting of the Caribbean and South American plates caused an increase in humidity at the poles by disturbing the salinity equilibrium in the Atlantic and Pacific Oceans (Soligo, 2005; Haug and Tiedemann, 1998). The uplift of the Himalayas and the Rocky Mountains also increased the snowfall rate in Greenland (Ruddiman and

Kutzbach, 1989). Lastly, it was found that the drop in CO₂ had the greatest impact on global cooling (Lunt et al., 2008), even if the underlying causes are not fully known (Bartoli et al., 2011).

With regards to the fauna of the Pliocene, the closure of the Panama Isthmus affected not only global ocean circulation but also the evolution of marine and terrestrial fauna. This permanent terrestrial “land bridge” between South and North America caused a terrestrial biotic exchange known as “The Great American Interchange”. It led to the northward migration of many land mammals (e.g., glyptodonts, armadillos, opossums) from South America (Rafferty, 2010:116). The Trans-Arctic interchange occurred between the Arctic-Atlantic and the North Pacific seas due to the Bering Strait opening between Siberia and Alaska, affecting the exchange of molluscan faunas (Marincovich and Gladenkov, 1999). Based on fossil record analysis, Pimiento et al. (2017) proposed that 36% of the marine fauna (e.g., the shark *Carcharocles*, sea turtles *Sylomus* and *Psephophorus*, and the penguin *Inguzia*) disappeared at the end of the Pliocene because of the changes in sea levels that took place during the transition.

The warm but especially humid weather conditions of the Pliocene give rise to the growth of tropical shrubland and grasslands in central Africa and Australia (Dodson and Macphail, 2004). Previously sub-tropical and temperate forests on the European continent had evolved into deciduous forests, which rose in temperature (Salzmann et al., 2011). In southern Africa, this global drought increased desert vegetation and a loss in grassy vegetation (Hoetzel et al., 2015).

In summary, during the Pliocene period, Earth's climate was warmer than today, with higher sea levels and less glacial mass at the North Pole. The mid-Pliocene warm period is of particular interest for studying the effects modern of global warming on ocean energy budget, atmospheric conditions, and ecological balance. Reconstructing Pliocene sea-levels using paleo-shoreline indicators is crucial for predicting and preparing for the potential effects of increasing storm conditions, particularly in densely populated areas. The study of ancient coastal deposits in the Cape Peninsula region can further refine not only the impact of high energy conditions on coastal deposition, but also provide field constraints on future sea-level rise and the "Pliocene sea level paradox".

3. METHODOLOGY

This study used qualitative and semi-quantitative fieldwork to describe and interpret the sedimentary geology of fossil boulder beaches exposed at four sites in the Cape Town region. To reconstruct the sedimentary history of these coarse-grained sedimentary layers, textural characteristics (grain size, sorting, roundness, maturity), sedimentary structures (i.e., cross-bedding, horizontal lamination), and geometries of individual gravelly units were recorded at each site, because the sediment characteristics are directly linked to the energy level and flow direction of the depositional processes. Digital photograph series taken perpendicular to the outcrop at each site were combined into photo panels (Wizevich, 1992) for lithofacies mapping and clast counting. This high-resolution outcrop mapping was also aided by image processing and professional illustration software (e.g., Adobe Illustrator). Moreover, carefully scaled field photos that were taken with minimum photographic distortions were also used in the point-counting of clasts with the aid of image processing freeware (i.e., *ImageJ* software available at: <https://imagej.net/Downloads>).

3.1. Clast counting

Clast counting, a quantitative measurement of the various particle dimensions in siliciclastic sedimentary rocks, is one of the methods used to estimate the nature and energy level of depositional processes (e.g., weathering, erosion, transportation), the shape of the particles pre-deposition (e.g., joint patterns in the source rocks might result in elongate clasts), and the nature of the source rocks (e.g., Blatt et al., 1972; Fisher and Bridgland, 1986; Boggs, 2009).

The primary goal of clast counting in this study was to examine variations in particle size, shape, sorting and roundness across the study area. Using the methodology of Karátson et al. (2002), the gravel deposits were documented carefully scaled and photographed with the camera parallel to the outcrop to prevent possible photographic distortions and errors in the image processing stage.

Measurements in two perpendicular dimensions (long and short) were recorded together with the position of the gravel-sized clasts encountered along the determined transects across the outcrops according to the popular ribbon method explained by Howard (1993). This method entails randomly demarcating an area with a ribbon and then systematically measuring 100 clasts within the ribbon from left to right. However, for cemented clasts, the 3D assessment was impossible, and dissolving conglomerates to liberate the particles was both beyond the scope and permit conditions of this project; thus for such clasts, the apparent maximum long and short axes were measured. This would provide a conservative estimate of the wave conditions which is preferable to over-exaggerating. Counting 100 per 1 m² area is considered to represent a statistically significant population (Bordy et al., 2016). Where clasts were not measured in the field due to logistical issues, additional measurements were taken in carefully scaled outcrop photographs using *ImageJ* software. The above-mentioned inspection area of 1 m² is problematic in outcrops containing coarse-grained boulders with > 1 m in diameter, and in such cases, the inspection area was increased to roughly 2.5 times the largest boulder diameter. The clasts' dimensions were measured in cm and then converted to ϕ scale units (see equation above), facilitating the presentation of the grain size range.

3.1.1. Clast size

The Udden-Wentworth grain-size classification scheme and its derivatives (Udden, 1914; Wentworth, 1922) have been utilized globally for reporting observations about the detrital particles in soils, sediments, and sedimentary rocks. Since the original Udden-Wentworth scale does not include a detailed classification of boulders, the scheme proposed by Terry and Goff (2014) was used (Table 3.1). The logarithmic phi scale is a helpful variation of the Udden-Wentworth scale that permits grain-size data to be stated in units of equivalent value for statistical calculations. This scale, proposed by Krumbein (1934), is based on the $\phi = -\log_2 d$ relationship, where ϕ is phi size, and d is the grain diameter in millimetres.

Table 3.1. Modified Udden-Wentworth grain-size scale for sedimentary clasts by Terry and Goff (2014).

PARTICLE LENGTH (d _i)				GRADE	CLASS	FRACTION		
km	m	mm	Φ			Unlithified	Lithified	
1075			-30	very coarse	Macrolith	Megaclastic sediment	Megaclastic rock	
538			-29	coarse				
269			-28	medium				
134			-27	fine				
67.2			-26	very fine				
33.6			-25	very coarse				Mesolith
16.8			-24	coarse				
8.4			-23	medium				
4.2			-22	fine				
2.1			-21	very fine				
1.0	1048.6		-20	very coarse	Macro-boulder			
0.5	524.3		-19	coarse				
0.26	262.1		-18	medium				
	131.1		-17	fine	Meso-boulder			
	65.5		-16	very coarse				
	32.8		-15	coarse				
	16.4		-14	medium				
	8.2		-13	fine	Boulder			
	4.1	4096	-12	very coarse				
	2.0	2048	-11	coarse				
	1.0	1024	-10	medium				
	0.5	512	-9	fine				
	0.25	256	-8	coarse	Cobble	Gravel	Conglomerate	
		128	-7	fine				
		64	-6	very coarse	Pebble			
		32	-5	coarse				
		16	-4	medium				
		8	-3	fine	Granule			
		4	-2					
		2	-1	very coarse	Sand	Sand	Sandstone	
		1	0	coarse				
		0.50	1	medium				
		0.25	2	fine				
		0.125	3	very fine	Silt			
		0.063	4	coarse				
		0.031	5	medium				
		0.015	6	fine				
		0.008	7	very fine				
		0.004	8		Clay	Mud	Mudstone or Shale	
		0.002	9					
		0.001	10					
		0.0005	11					
		0.0002	12					
		0.0001	13					

3.1.2. Sorting

Sorting is a measure of how clast size diversity is spread throughout the population, and sediments containing a wide range of clast sizes are called poorly sorted, while well-sorted ones consist of clasts of similar sizes (Figure 3.1a). Understanding the factors influencing sorting is crucial for interpreting information about sediment transportation processes and origin (Folk, 1980; Nichols, 2009). Some key factors determining the degree of sorting in a clast population include characteristics of the transporting flow, range of particle size accumulated in the sedimentary basin, and time.

In this study, sorting was first estimated using a comparison chart (Figure 3.1b). Due to an abundance of large clasts at the sites, a more precise approach was also deployed by using the cumulative frequency curve that resulted from grain size analysis (see Figure 4.9 in the Results). The standard deviation of the grain size data represents the sorting value and is calculated using phi values corresponding to 5%, 16%, 84% and 95% of the grain distribution curve (Figure 3.1c; see Appendix C for each phi value for each site).

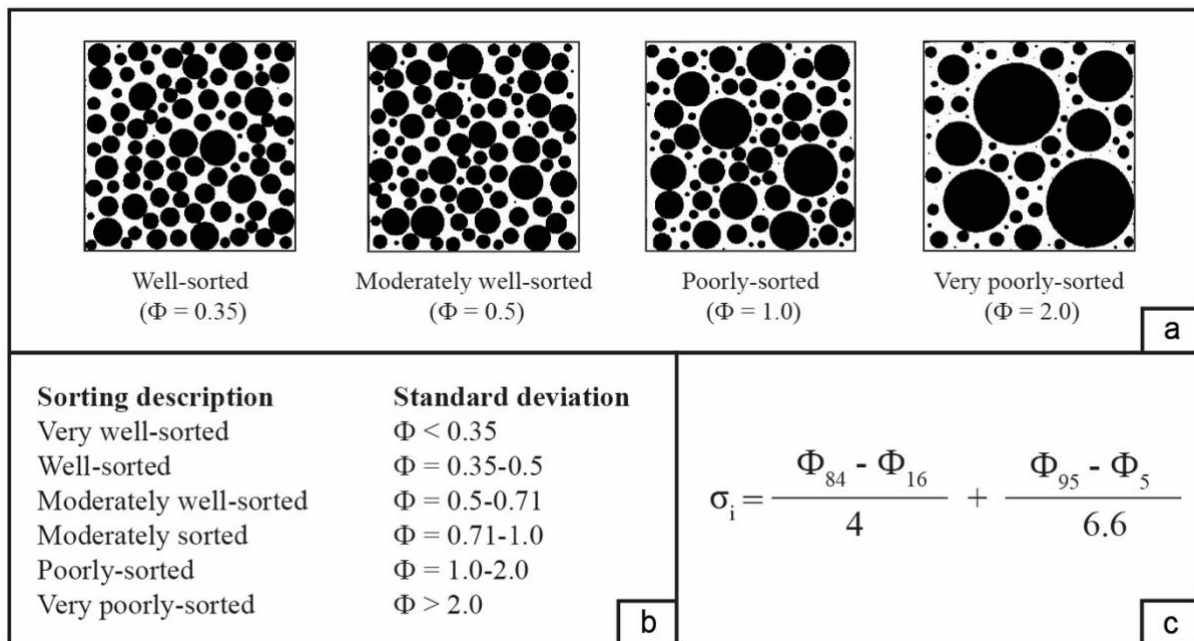


Figure 3.1. a) Sorting definitions corresponding to phi value ranges (after Folk, 1980). b) The inclusive graphic standard deviation formula was given by Folk (1980) when determining sorting degree. c) Examples of visual charts used when estimating sorting (adopted from Boggs, 2006).

3.1.3. Roundness

The term “roundness” pertains to the degree of angularity or smoothness found in the corners of sedimentary clasts. The degree of roundness can indicate the level of mechanical abrasion the clasts have experienced during transportation or after being deposited. According to Wadell’s (1932) mathematical definition, roundness can be calculated by “the ratio of the radius of curvature of the corner to the radius of the maximum inscribed circle in the plane of measurement”. During the 1950s, visual interpretation became more popular as it allowed for quick estimation and assessment of clast roundness through visual images. While Wadell’s (1932) formula provides a more accurate result for determining roundness, its detailed analysis can be time-consuming when dealing with large numbers of clasts; hence, in this study, Powers’s (1953) chart was used to visually estimate the roundness of the clasts (Figure 3.2).

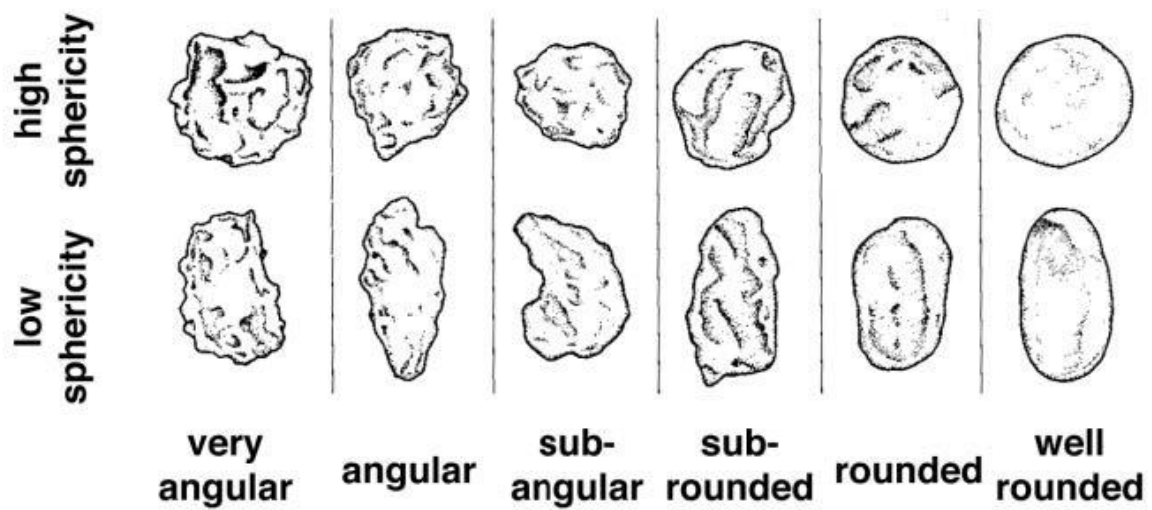


Figure 3.2. Chart developed by Powers (1953) for visually estimating clast roundness.

3.1.4. Textural maturity

Textural maturity reflects the effect of the mechanical energy to which the sediments are exposed by transporting currents *en route* to the final site of deposition, and it is measured by assessing the abundance of clay-size fraction, sorting and roundness of clasts in any given clastic sediment or sedimentary rock (Folk, 1951, 1980; Boggs, 2006). For this reason, assessing textural maturity aids in deciphering sedimentary transport history and the depositional environment. There are four different developmental stages that unfold during the evolution of the sediment's texture (Figure 3.3). Initially, "immature" sediments contain over 5% clay, exhibit poor sorting, angular clasts, commonly found in low-energy environments like lagoons and floodplains (Folk, 1980; Boggs, 2006). Progressing to the "submature" stage entails a reduction in clay to less than 5%, while retaining similar clast properties. At the "mature" phase, sediments exhibit well-sorted clasts, limited rounding, and minimal clay, signifying increased maturity (Folk, 1980; Boggs, 2006). Finally, high-energy environments such as beaches lead to "supermature" sediments, characterized by intense mechanical weathering, well-sorted, and rounded clasts (Folk, 1980).

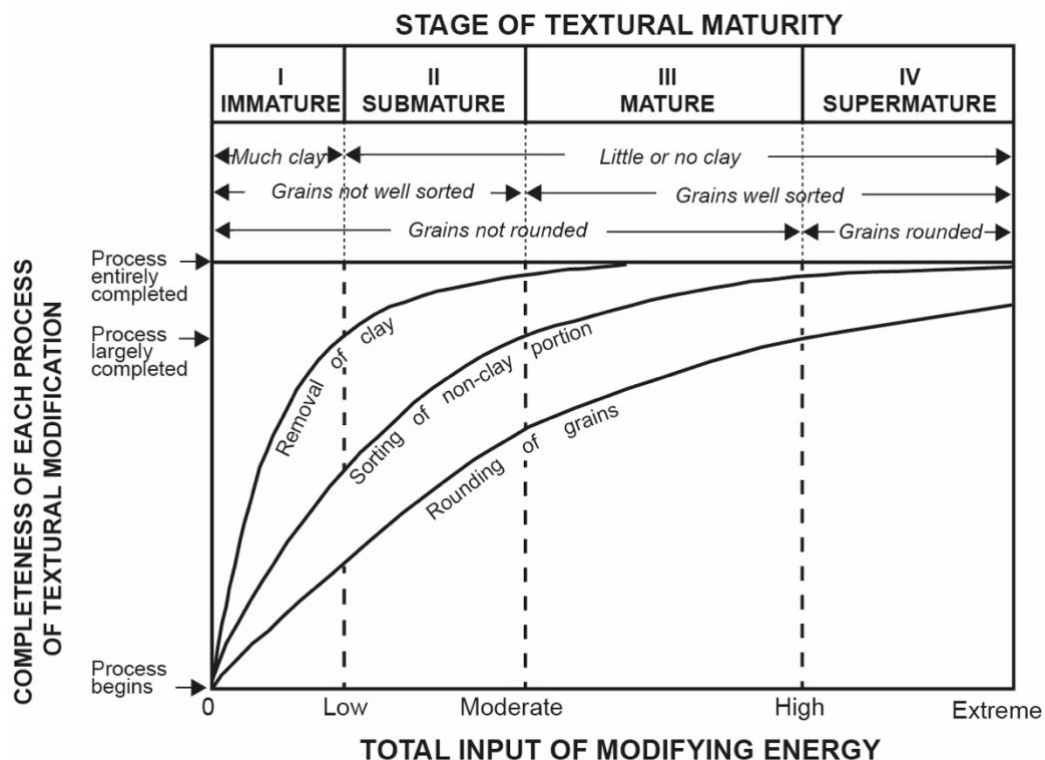


Figure 3.3. Textural maturity chart showing the relationship between clay content and clast characteristics in sediments across the four stages of textural maturity (adopted from Folk, 1951).

3.2. Hydraulic model

Gravel deposits along beaches are evidence of high-energy coastal processes, which can be induced by a variety of high-magnitude, but relatively low-frequency events such as tsunamis, hurricanes, and storms. Moreover, such sediments can be the hallmark of moderate- to high-energy, wave-dominated (microtidal) coasts, which are dynamic environments where the movement of the waves constantly affects the shore. The average size of the sediments deposited on the beach is directly proportional to the energy of the wave that generated them, and this energy is also related to the beach slope. The slope of the beach plays an important role in determining whether wave energy will be dispersed or reflected. While steeper slopes cause some of the wave energy to be reflected, shallower slopes will spend most of the wave energy transporting the sediments (Morales, 2022:228). McCall et al. (2014) presented a model (XBeach-G) that predicts the effect of storms on gravel barriers using wave levels and initial wave overtopping discharge.

In the absence of wave records for fossil beach sediments, a palaeo-hydraulic model can be constructed to estimate the effect of wave energy required to erode and transport a boulder or a block of rock from joint-bound bedrock and transfer it to a coastal boulder deposit. The hydraulic model uses equations derived from the moment of hydrodynamic forces, aiding in estimating the minimum wave height needed to initiate the movement of large clasts during a tsunami or storm surge. In this study, two formulas developed by Nott (2003) and later improved by Pignatelli et al. (2009) were used. While the first formula uses the long axis of the clasts to predict the storm wave height at breaking point, the second formula uses the short and intermediate axes of the clasts to estimate the minimum wave height that can initiate the movement of the boulders. Pignatelli et al. (2009) formula is for boulders that were disjoined and placed below sea level (submerged scenario) (Nott, 2003).

$$H_s = \left(\frac{\left(\frac{\rho_s - \rho_w}{\rho_w} \right) a}{C_1} \right) \dots\dots\dots 1$$

$$H_s = \frac{\left[\left(\frac{\rho_s - \rho_w}{\rho_w}\right)b^2c\right]}{[0.5(C_d c^2 + C_1 b^2)]} \dots\dots\dots 2$$

ρ_s is the density of boulder ($\rho_s=2610 \text{ Kg/m}^3$ in Van Wyk and Croucamp (2014)); ρ_w is the density of water at 1020 Kg/m^3 ; a is the length of the longest boulder axis (m); C_1 is the coefficient of lift ($C_1=0.18$ in Nott's (2003) equation; $C_1=0.178$ in Pignatelli et al.'s (2009) equation); b is the length of the intermediate axis (m); c is the length of the shortest axis (m); C_d is the coefficient of drag ($C_d=2$ in Pignatelli et al.'s (2009) equation).

Utilizing these equations in contemporary environments is often straightforward because geomorphological measurements or 3D assessment of boulders that litter the modern shoreline can be directly achieved. Moreover, while the boulders are being transported, data pertaining to wave and beach parameters under varying conditions can also be (semi-) directly recorded (Lorang, 2000; Goto et al., 2009; Nandasena et al., 2011). In strongly cemented fossil beach deposits, however, it is challenging to determine the beach and wave characteristics during the transportation and deposition. Considering this, the current study utilizes a formula by Nott (2003) that relies solely on the long axis of quartzite boulders with known density to estimate the height of the storm wave at the moment of breaking, despite concerns regarding the accuracy of these estimates. For instance, Johnson (2021) documented that wave height estimates exceeded 25 m near the Reykjanes Peninsula of Iceland, where the recorded wave height did not exceed 15 m. This overestimation of wave height can be attributed to limitations posed by using a formula that considers only one parameter as opposed to those based on multiple parameters, thus potentially yielding more accurate results. Nevertheless, due to a lack of alternative tools applicable to assessing wave heights associated with ancient coastal boulder deposits, the Nott (2003) formula is deployed herein albeit with caution.

3.3. Elevation of palaeo-beaches above sea level

To ascertain the potential sea level during the deposition of palaeo-beaches, it was crucial to determine the current elevation of the deposits relative to the present sea level. This elevation information was derived from the 2021 Lidar dataset provided by the City of Cape Town and cross-referenced with data obtained from Google Earth Pro (see Table 4.1). Careful attention was paid to accuracy by selecting a specific point coinciding with the location of the lowermost gravels within the palaeo-beaches, as they are exposed in road cuttings directly above the underlying the Lower-Middle Ordovician Peninsula Formation.

4. RESULTS

4.1. Clast counting

In this study, a total of 3042 fossil beach clasts were assessed at Karbonkelberg (Figure 4.1a), Glencairn (Figure 4.2a-b), Misty Cliffs (Figure 4.3a) and Kogel Bay (Figure 4.4a; Figure 4.5a) study sites in the Cape Town region. The measured and estimated values for each numbered clast are shown in data tables and corresponding field photographs in Appendix B. Clast parameters describing particle size, sorting and roundness in the study area are presented in bar graphs, pie charts and tables below.

4.1.1. Clast size

Sedimentary rocks of siliciclastic origin, comprising mostly rounded rock fragments larger than 2 mm, are classified as conglomerates (Boggs: 2009:165). They may incorporate matrix, which refers to clay and sand-sized mineral or rock fragments situated between the larger clasts of the rock's fabric. If a considerable amount of matrix is present among the clasts, the conglomerate is considered "matrix-supported", whereas a lack or little matrix results in a "clast-supported" fabric (Boggs, 2009:166). All outcrops in this study exposed clast-supported conglomerates with variable cementation levels.

The clast size versus frequency (Figure 4.6) is represented in a bar graph based on the longest axis of the clasts. The overall distribution of the clast sizes in the study area (Figure 4.7a) shows that among the 3042 measured clasts, cobbles (6.4-25.6 cm) are the most common, with nearly $\frac{3}{4}$ of all clasts falling into this size category. The only exception is Glencairn, where only 58% of all clasts are cobbles (Figure 4.6). Pebbles (0.4-6.4 cm) make up 10% of the total measured clasts and are most common (21.8%) at Misty Cliffs, while no pebble-sized clast was measured at Glencairn (Figure 4.6). Very coarse boulders (204.8-409.6 cm) have only been observed in Kogel Bay (Figure 4.6), constituting only 0.2% of the 2119 clasts measured at that study locality (Figure 4.7a). The relationship between the average clast size range and site location within the study area (Figure 4.8a) shows that the clast size decreases from E to W trend.



Figure 4.1. a) Southward view of the fossil beach deposits at Karbonkelberg (33°59'6.05" S, 18°21'25.60" E). b) The roundness of granule- to pebble-size, clast-supported clasts ranges from subrounded to well-rounded. c) Close-up of the well-rounded clasts.

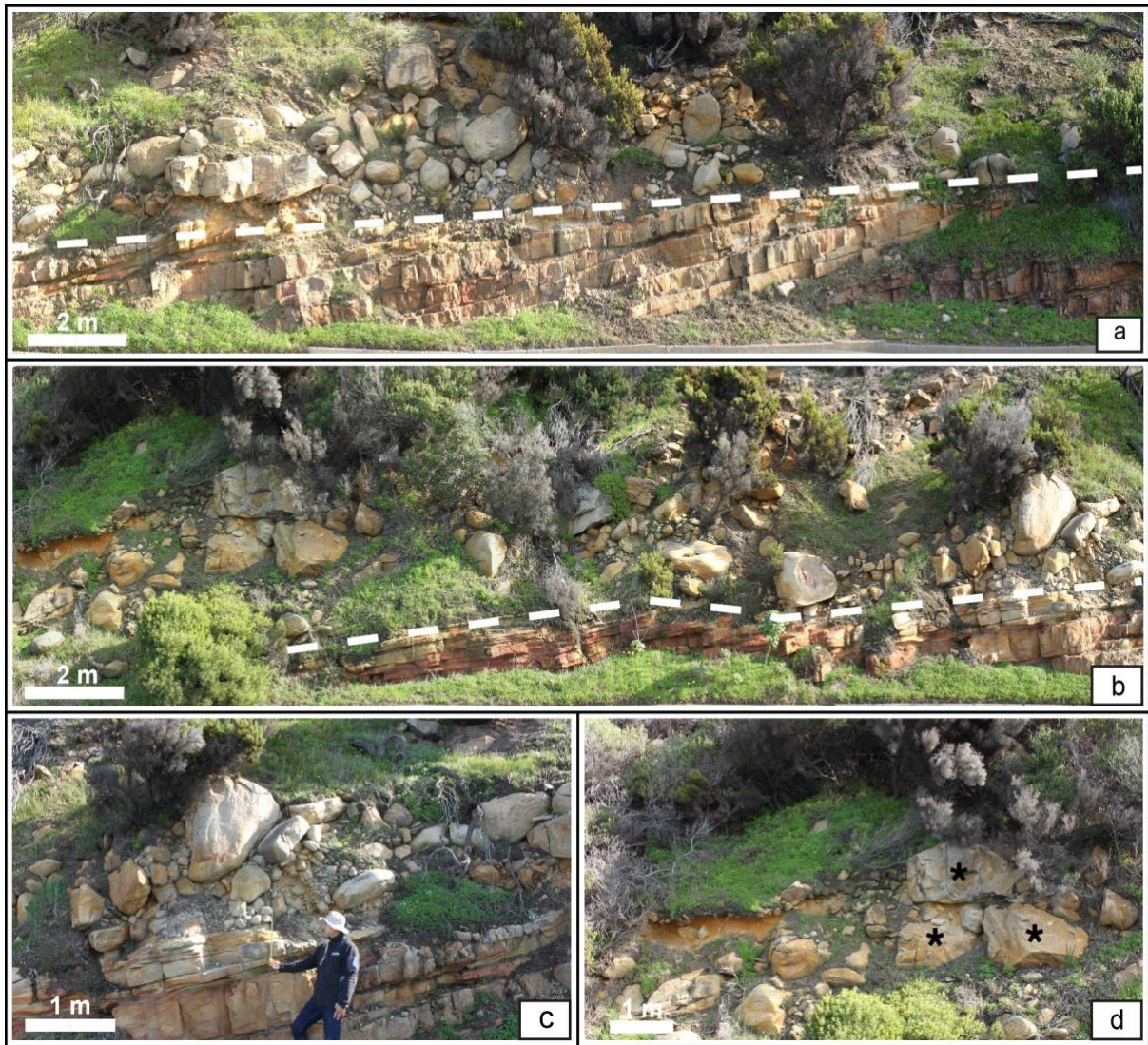


Figure 4.2. a-b) North-westward view of the fossil beach deposits resting on in situ bedrock at Glencairn (34°9.17.76" S, 18°26'10.61" E). Angular unconformity (white dashed lines) lies on top of the reddish-brown, bedded and tilted quartzites of the Lower-Middle Ordovician Peninsula Formation. c) Subrounded clasts range from fine-cobble to coarse-boulder size. d) Note that the quartzite boulders marked with black stars differ from the fossil boulder beach sediments in that they are jointed and very angular.

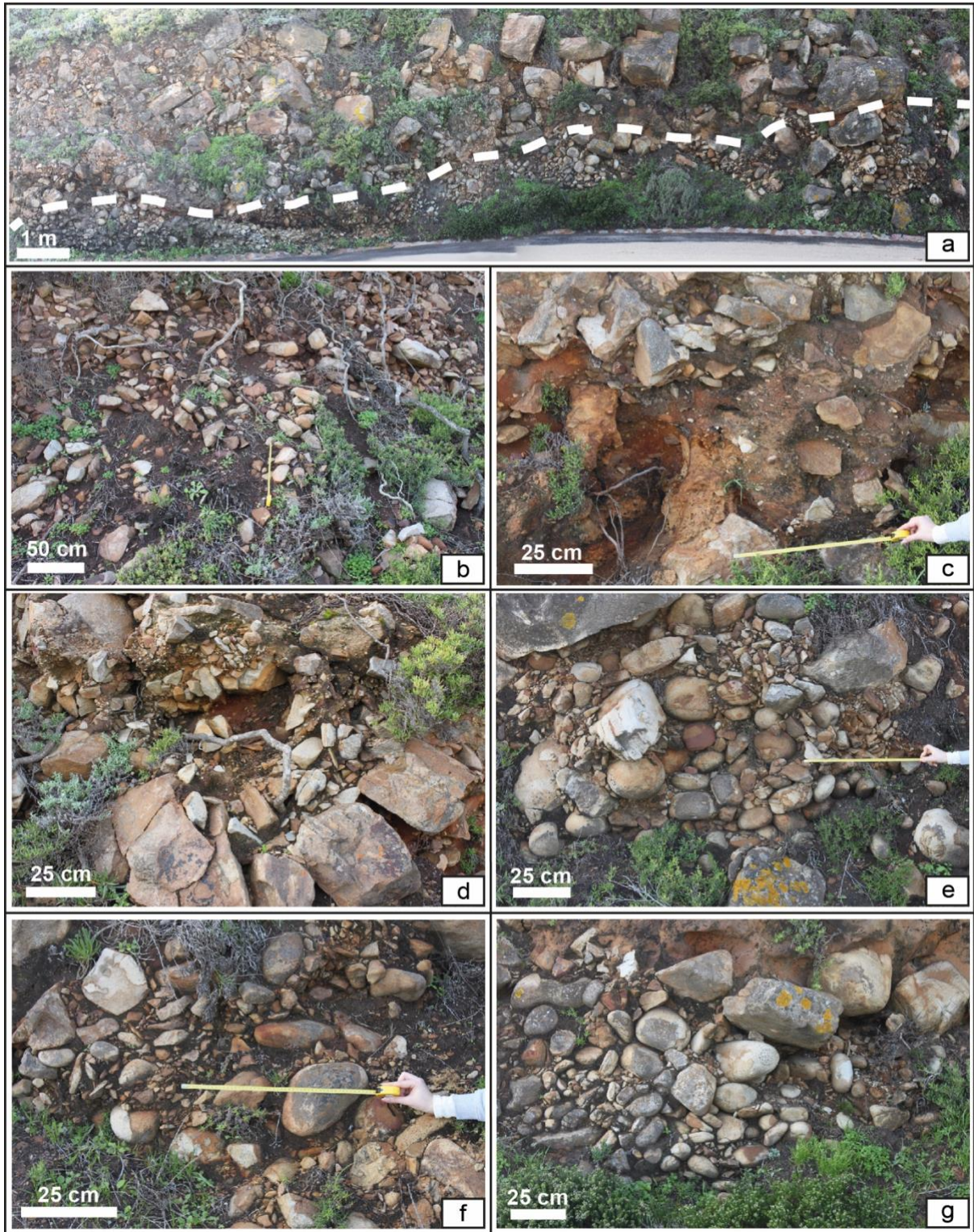


Figure 4.3. a) North-eastward view of the fossil beach deposits at Misty Cliffs ($34^{\circ}11'14.41''$ S, $18^{\circ}21'54.15''$ E). White dashed line marks the unconformity at the top of the fossil beach deposits, below the recent colluvium. b-c-d) Talus (colluvium) with abundant matrix and poorly sorted, angular clasts. e-f-g) The fossil beach sediments with moderately well-sorted and well-rounded clasts.

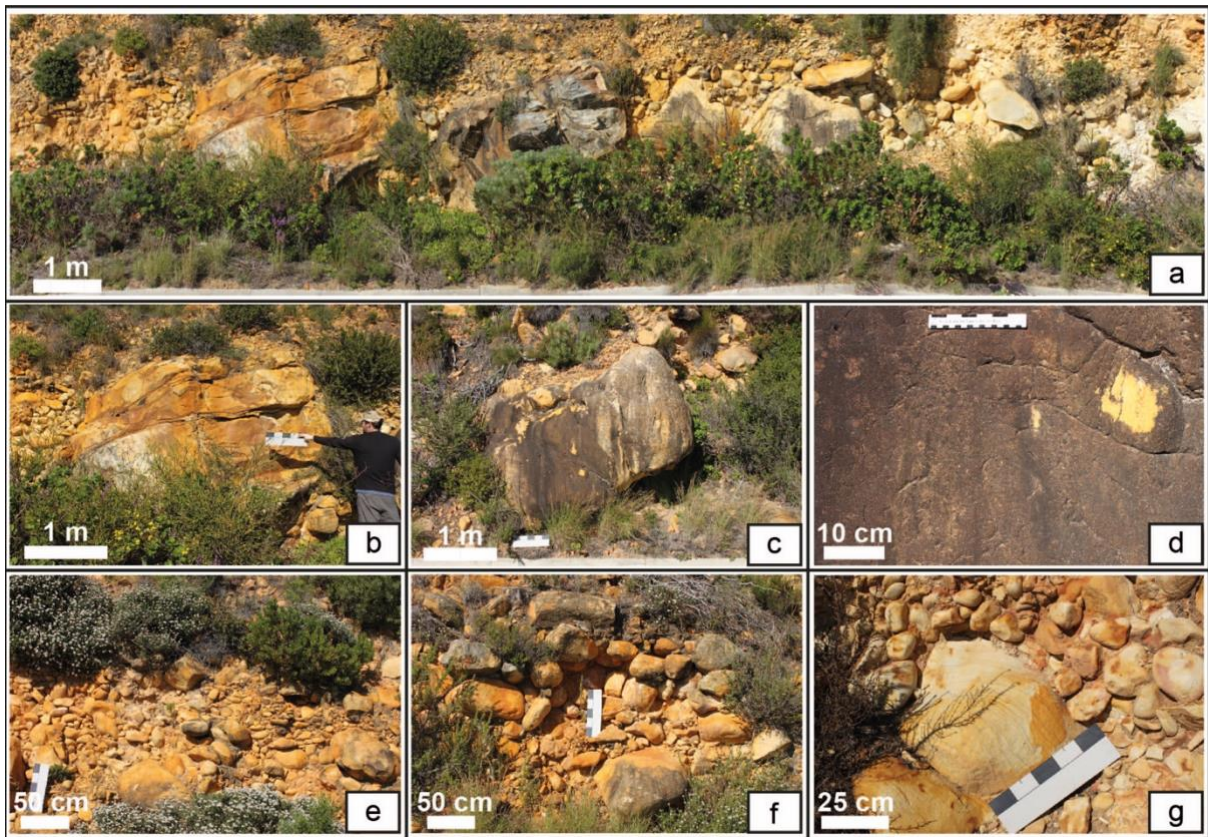


Figure 4.4. a) South-eastward view of the fossil beach deposits at Kogel Bay (34°16'13.29" S, 18°50'45.17" E). Very coarse boulders represent high-energy deposition. b) The largest boulder documented in this study is over 3 m in diameter. c-d) Crescent-shaped percussion marks on a boulder with a 2.8 m diameter. Examples of well-rounded (e), clast supported (f), and moderately well-sorted (g) sandstone (Lower-Middle Ordovician Peninsula Formation quartzite) clasts in the fossil beach deposits.

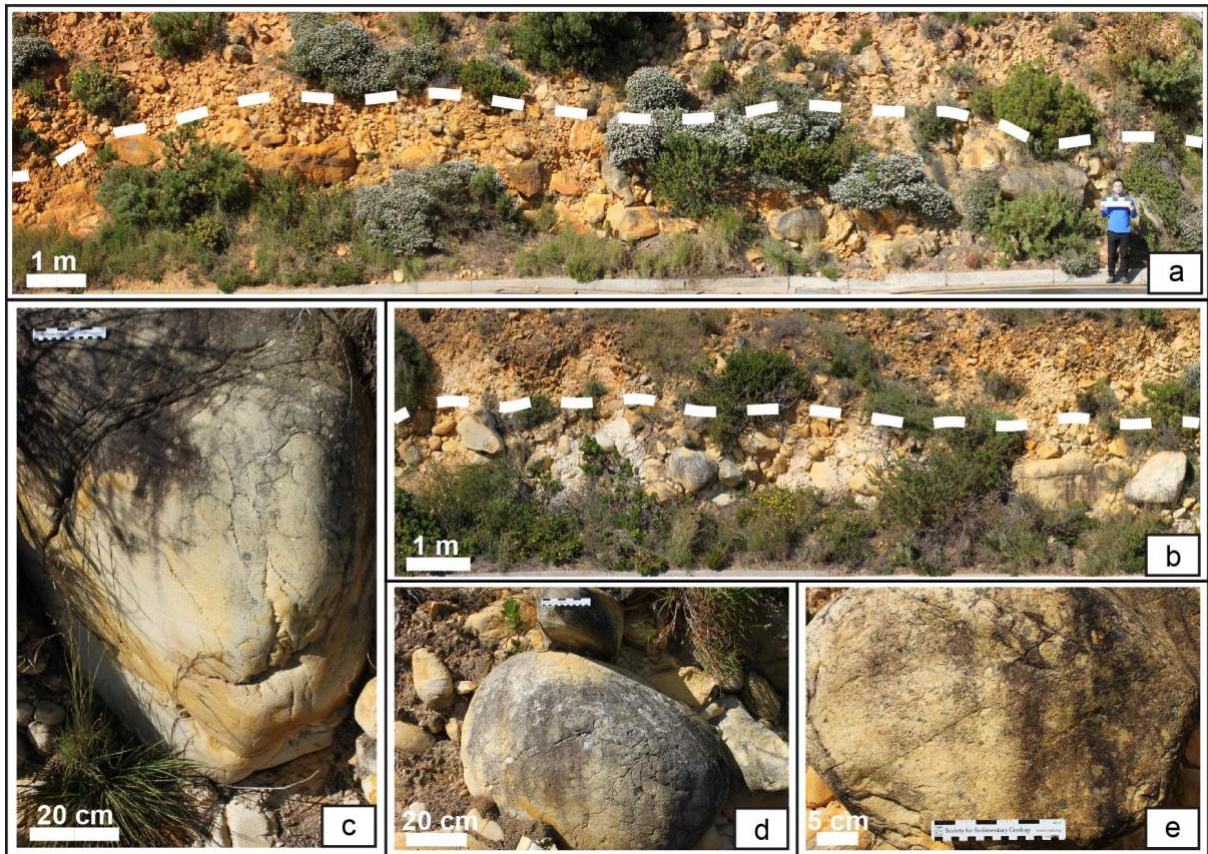


Figure 4.5. a-b) South-eastward view of the fossil beach deposits at Kogel Bay ($34^{\circ}16'18.73''$ S, $18^{\circ}50'37.16''$ E). White dashed line marks the unconformity at the top of the fossil beach deposits below the recent colluvium. c-d-e) Clasts with abundant crescent-shaped percussion marks formed by collision impact among transported clasts and/or bedrock during high-energy transport.

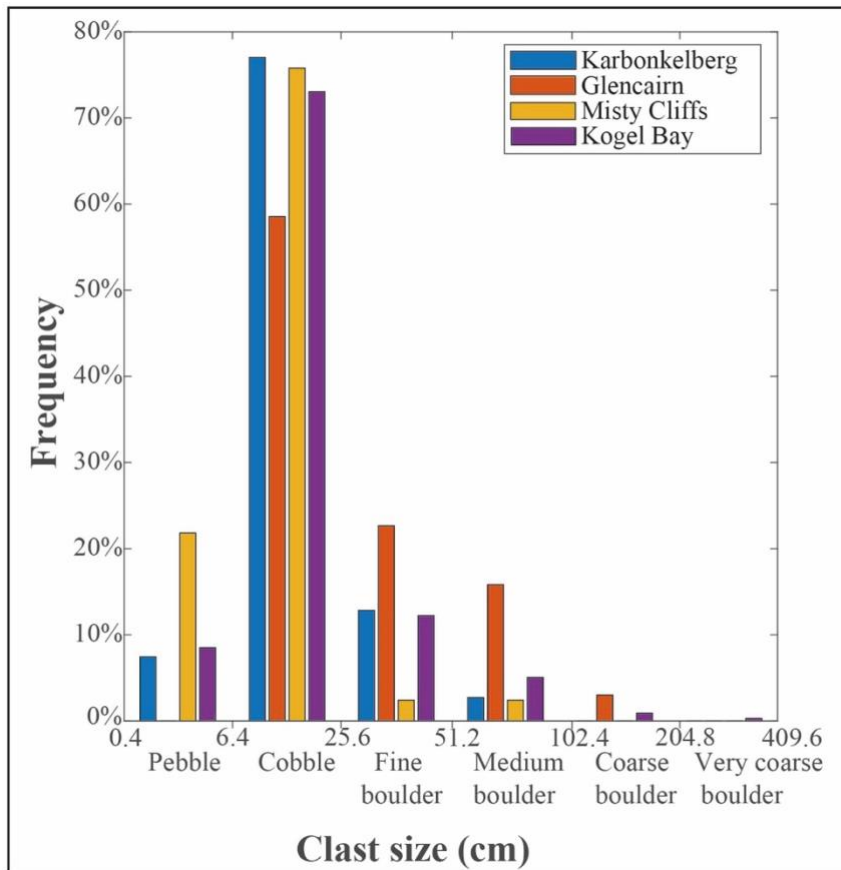


Figure 4.6. Clast-size abundances show that cobbles are by far the most abundant clasts at all four study localities, and very coarse boulders are only present at Kogel Bay.

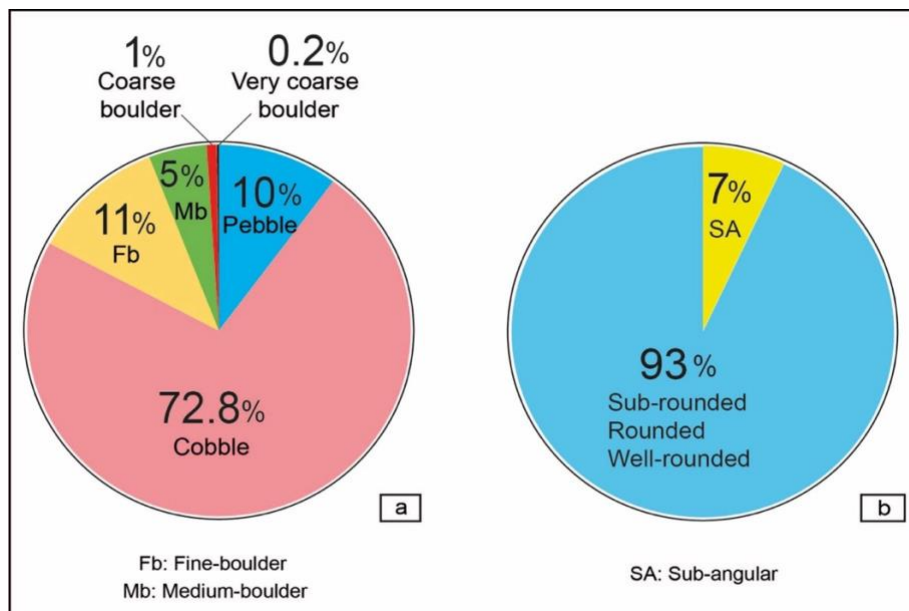


Figure 4.7. The clast-size abundances (a) and roundness (b) of overall measured clasts (3042) in the fossil beach deposits.

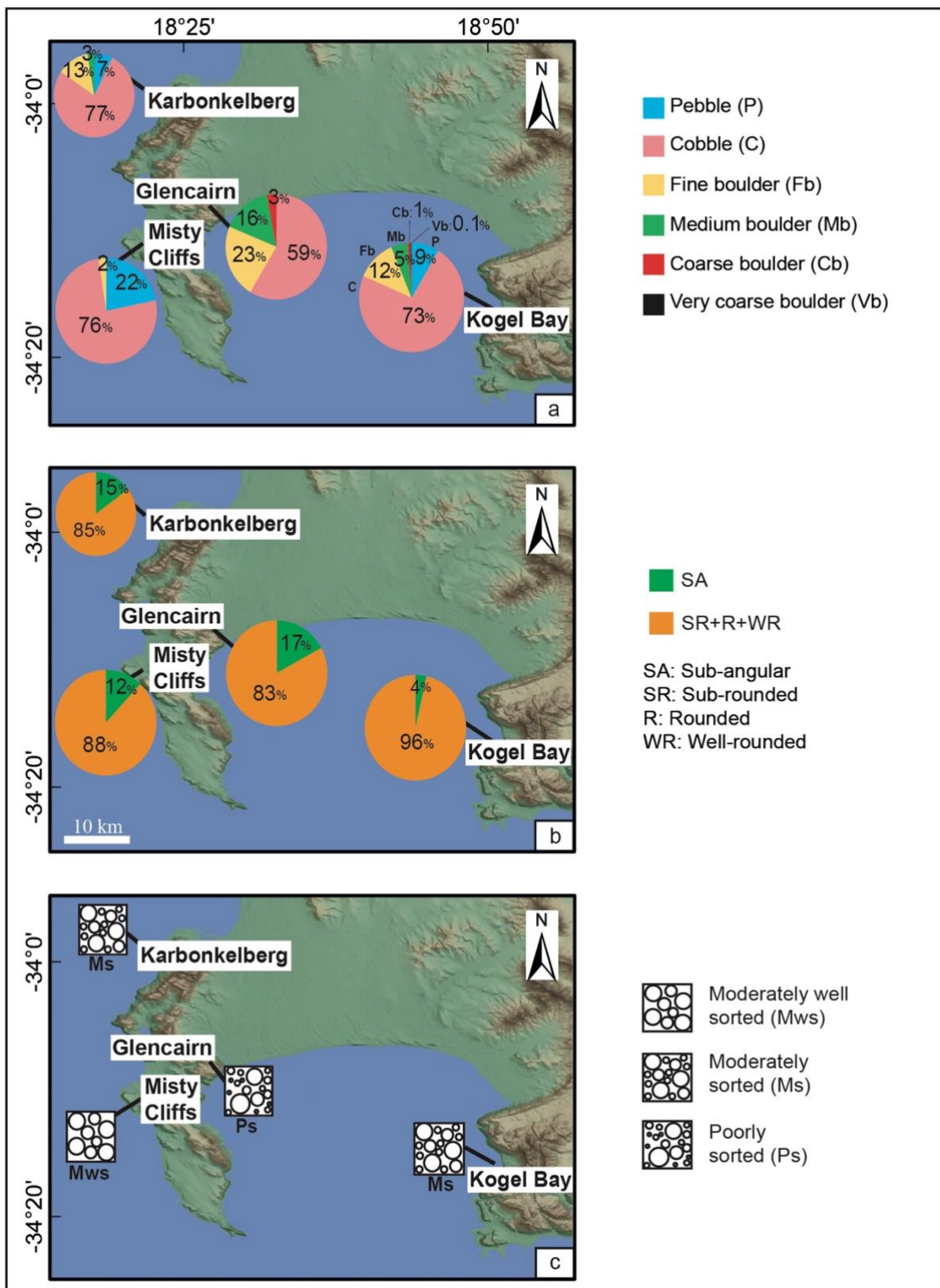


Figure 4.8. a) Clast-size distribution and b) roundness/angularity ratio of the fossil beach deposits at the four study localities. c) Sorting classes in the fossil beach deposits at the four study localities..

4.1.2. Sorting

Sorting, calculated from the standard deviation of clast sizes (in Φ , phi units), shows that (Figure 4.9) the values of sorting are from poorly sorted (1.02) to moderately well-sorted (0.69) in the study area. Glencairn has the lowest sorting value among the sites, while the moderately well-sorted clasts at Misty Cliffs are best sorted in the study area (Figure 4.3e-f-g; Figure 4.9). Considering the relationship between sorting and site location within the study area (Figure 4.8c), the distribution is so random that there is no regional pattern (i.e., no trend from E to W).

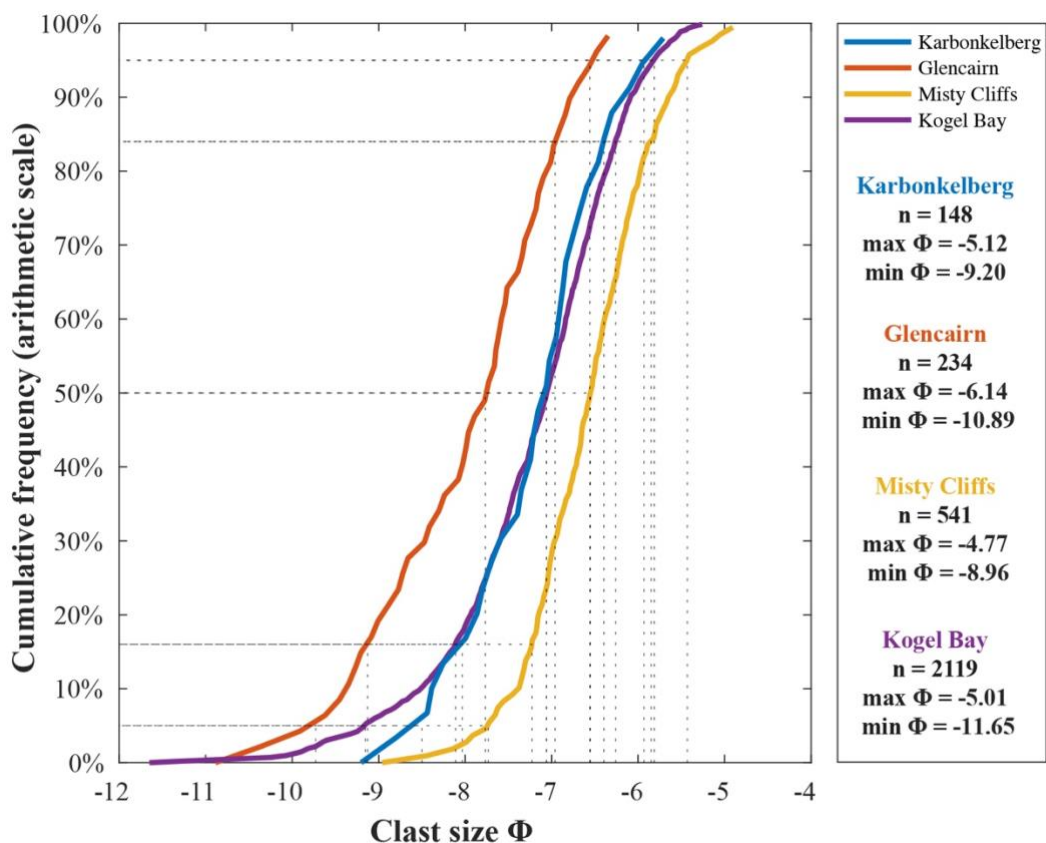


Figure 4.9. Cumulative frequency curves of clast sizes (in Φ , phi units) in the fossil beach deposits at the four study localities. The overall clast size ranges from coarse pebbles to very coarse boulders of >3-m-diameter (-5 to -12 Φ). $\Phi = -\log_2 d$ (mm), where 'd' is the clast diameter in mm. The letter 'n' denotes the number of clasts counted at each study locality.

4.1.3. Roundness

The roundness of the clasts, estimated visually, shows that all clasts are mostly subangular to well-rounded (Figure 4.1b; Figure 4.3e-f-g), and subangular clasts make up only 7% of total clasts (Figure 4.7b). Subrounded clasts are dominant at Glencairn and Misty Cliff, whereas Karbonkelberg and Kogel Bay are rich in well-rounded clasts (Figure 4.10). Clast roundness distribution according to clast sizes shows no subangular coarse and very coarse boulders in the study area, and generally the larger clasts are better rounded (Figure 4.11). As the size of the clast increases at Karbonkelberg and Glencairn, the clasts become better-rounded, while there are no significant differences in the other two study localities. The relationship between roundness and site location in the study area (Figure 4.8b) shows that when Glencairn clasts are not taken into account, the proportion of more rounded clasts decreases from E to W, while that of angular clasts increases.

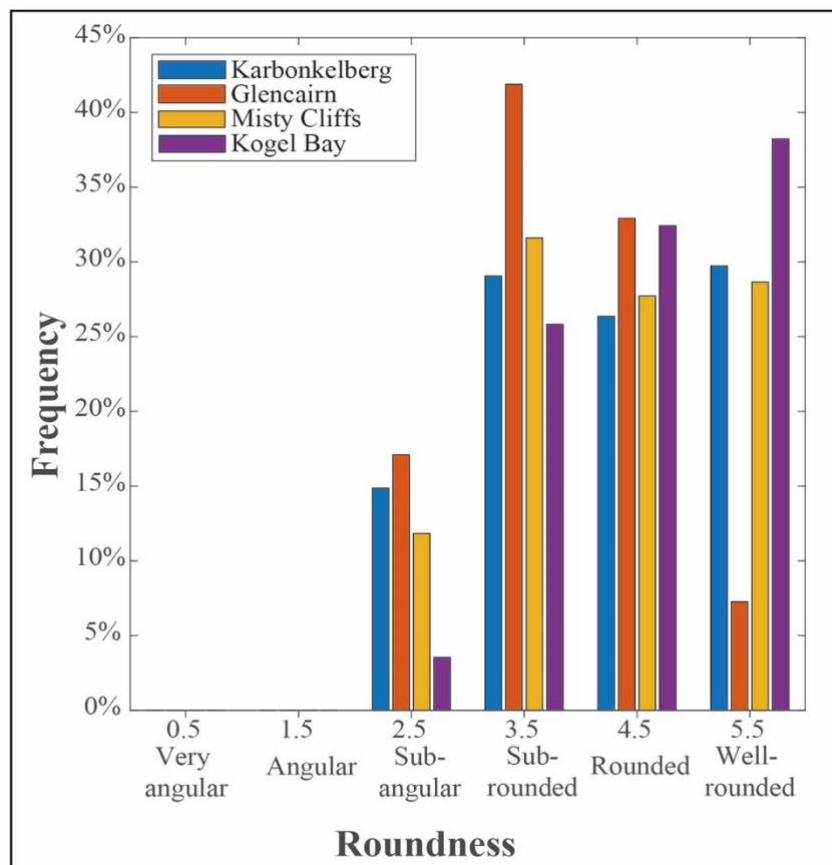


Figure 4.10. Clast roundness shows that most clasts are subrounded to well-rounded.

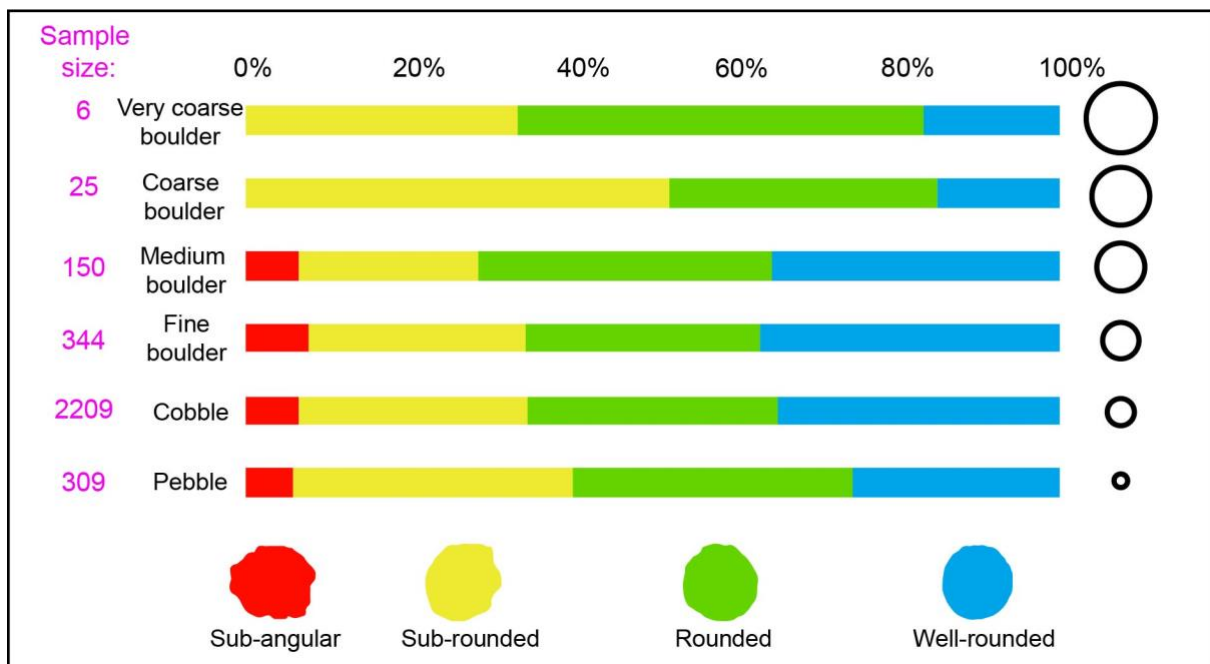


Figure 4.11. Clast roundness variation according to clast size in four fossil beach deposits. Note that larger clasts are better-rounded.

4.1.4. Textural maturity

The absence of a matrix in the examined fossil beach deposits suggests these deposits are not immature. While the sediment's sorting degree is lower than those of mature or supermature sediments, especially with phi standard deviation values below 0.5 (Figure 4.9), the clasts' roundness is good, with <20% of clasts being subangular at each site (Figure 4.10). Therefore, due to the dominance of subrounded to well-rounded clasts (Figure 4.7b), nearly all fossil beach sediments in this study have reached the supermature stage (Figure 3.3).

4.1.5. Elevation of palaeo-beaches above sea level

The analysis of elevation data from the City of Cape Town's 2021 Lidar dataset and Google Earth Pro for the four study sites reveals slight variations in elevation of the palaeo-beach deposits, typically ranging between 2 to 5 meters above mean sea level (Table 4.1). This difference likely arises from the use of distinct geodetic datums by the two data sources, with Google Earth elevations consistently exceeding those recorded by the 2021 LIDAR dataset.

According to City of Cape Town 2021 LIDAR data, Kogel Bay palaeo-beach deposits, located in the easternmost part of the study area, are at the highest altitude at 30.9 m above the mean sea level. This is followed by the Karbonkelberg site, located in the west, at 26 m, while the Glencairn and Misty Cliffs deposits are at 17.9 and 12.8 m above the mean sea level, respectively.

The relationship between the average clast size range and site elevation relative to sea level is linear at Misty Cliff and Kogel Bay (Table 4.1; Figure 4.8 a). Accordingly, the Misty Cliff has both the smallest clasts (coarse pebble) and the lowest elevation (12.8 m), in contrast to the very coarse boulders and highest elevation (30.9 m) of the Kogel Bay site. Karbonkelberg and Glencairn however, have an inverse relationship between clast size and elevation (Table 4.1; Figure 4.8).

Table 4.1. Altitude of the four study sites based on the City of Cape Town 2021 LIDAR and Google Earth Pro (G. Earth) data sources. Elevation data are in metres above mean sea level.

Site name	Longitude	Latitude	LIDAR	G. Earth	Difference	Location of road cutting
Karbonkelberg	18.35711	-33.985	21.3	26	4.7	M6 road, NE of Oudekraal Beach
Misty Cliffs	18.36508	-34.1873	12.8	16	3.2	M65 road, N of Scarborough
Glencairn	18.43621	-34.1549	17.9	20	2.1	M4 road, S of Fish Hoek Beach
Kogel Bay	18.84366	-34.2719	30.9	33	2.1	R44 road, S of Kogel Bay Beach

4.2. Hydraulic model

In order to represent the power of the waves effective in transporting the palaeo-beach deposits, the highest wave heights were calculated according to the largest clasts for each study site, using the formula of Nott (2003) and Pignatelli et al. (2009), in which the density of the orthoquartzite was adopted from Van Wyk and Croucamp (2014) (Table 4.2; For calculations for the five largest clasts in each location see Appendix D). Noticeably, according to the formula result of Nott (2003), the estimated wave heights calculated for Kogel Bay and Glencairn are approximately 3–6 times greater than those for Karbonkelberg and Misty Cliffs. In this formula, the height of the largest wave is approximately 28 m, which may have caused the transport of the boulder with an a-axis of > 3 m at Kogel Bay. This is followed by Glencairn, Karbonkelberg and Misty Cliffs with estimated highest wave heights of 11.24, 4.44 and 4.31 m, respectively. In contrast, although the highest wave height calculated with the formula of Pignatelli et al. (2009) is 3.29 m also in Kogel Bay, wave heights in other sites vary between 0.5 and 1.5 m.

In addition, the c-axes of the clasts are considered equal to the b-axes (the c-axes of clasts cannot be measured due to their orientation within the outcrop), and the clast sizes and weights are given in Table 4.2 in order to relate them to the estimated wave heights (H_s).

Table 4.2. Average and maximum boulder sizes and weights for each site and estimated wave heights were calculated with the Nott (2003) and Pignatelli et al. (2009) formulas. Note that estimated wave heights (H_s) are based on the largest clast in each study site.

Site name	Number of clasts	Average boulder diameter (m)	Average boulder size (m ³)	Average boulder weight (t)	Estimated av. wave height (m)				Estimated wave height (m)	
					Nott (2003)	Pignatelli et al. (2009)	Max. Boulder size (m ³)	Max. boulder weight (t)	Nott (2003)	Pignatelli et al. (2009)
Kogel Bay	2119	0.20	0.045	0.118	1.73	0.18	16.98	44.306	27.78	3.29
Glencairn	234	0.32	0.041	0.107	2.80	0.27	1.12	2.916	11.24	1.33
Karbonkelberg	148	0.17	0.0055	0.014	1.47	0.15	0.12	0.3208	4.44	0.70
Misty Cliffs	541	0.11	0.0011	0.003	0.93	0.09	0.05	0.1407	4.31	0.47

4.3. Percussion marks

Macroscopic abrasion structures with circular or semi-circular shapes on the surface of gravel-size clasts are collectively referred to as percussion marks (or impact marks or chatter marks or crushing marks) and can be attributed to multiple factors including tectonic distortion, chemical corrosion, and most commonly mechanical abrasion (Boggs, 2006:69). In the study area, percussion marks, are associated with pebble- and cobble-sized clasts at Kogel Bay study locality only. These many overlapping percussion marks are crescent-shaped and usually between 2–10 cm in diameter (Figure 4.4c-d; Figure 4.5c-d-e).

5. DISCUSSION

Clastic palaeo-beach deposits, which may contain sediments ranging in diameter from a few microns to several metres, provide information about regional coastal dynamics in marine settings. Boulder-size clasts, which range in diameter from 25 to over 300 cm, can only be mobilized by extreme wave conditions like tsunamis, superstorms, and tropical cyclones (Oak, 1981; Noormets et al., 2004; Paris et al., 2011; Green et al., 2016). Understanding the transportation and deposition of boulders in dynamic coastal environments is crucial for grasping the erosive impact of these boulder-moving events, which are documented to become increasingly frequent and severe with a warming climate (Fedorov et al., 2010).

The primary goal of this study is to investigate the sedimentary dynamics of paleo-beach deposits near Cape Town, which were previously mapped but have not been analysed using contemporary sedimentological methodologies (Krige, 1927; Haughton, 1933). In line with this primary objective, the study endeavours to document the facies architecture of beach deposits and explore the strength (energy) of the sedimentary processes necessary for their transportation.

The research methodology primarily involved the clast counting. To assess the clasts' properties in detail (size, sorting, roundness, maturity), photomosaics were created to conduct clast count. Due to the limitations encountered in the outcrops, that is, the geometry, paleocurrent direction and fossil contents of these spherical clasts could not be determined, the classical facies analysis approach (Spaggiari and Bordy, 2023) applied to clastic sediments could not be utilized in this study.

5.1. Clast counting

5.1.1. Clast size

The size of the clasts within a sedimentary succession can provide valuable insights into the paleo-environment. Sediments consisting of fine grain particles, such as clay, silt and sand, tend to accumulate under low- to moderate-energy conditions; on the other hand, granules, pebbles,

cobbles and boulders signify higher energies (Felton, 2002; Nichols, 2009:47). The transportation of clasts is determined by their weight and flow velocity, with friction along the seafloor playing a crucial role (Goto and Imamura, 2007). This gives rise to two distinct modes of sediment transport: suspended loads and bed loads. In the former, fine-grained sediments are carried in suspension (Boggs, 2006:29), while in the latter, larger clasts interact with each other and the seabed, moving grain-by-grain in traction through sliding, rolling, or saltation (Krumbein, 1941; Kuenen, 1956; Oak, 1981; Imamura et al., 2008; Etienne et al., 2011).

In clast analysis, reliable and unbiased results are reliant on robust statistical analysis, for which it is essential to randomly select samples and ensure their representativeness of the entire clast population. In this study, the measured clasts are considered representative as they encompass all clasts within the exposed portion of the target gravelly deposit. This comprehensive sampling of each exposure ensures that the measured clasts are not just a subset of the exposure but rather the entirety of the target sediments in that 'window' to the formation. Moreover, the parts of the formation obscured by bushes and loose overburden can be considered as increasing the randomness of the sampled clasts (i.e., the exposures are considered to occur randomly within the formation).

Individual gravel clasts are generally measured with a tape measure directly in the field (Selley, 2000), but due to a large number of clasts and the dangerously steep gradient of some outcrops in this study area, clasts were measured digitally from orthophotographs using ImageJ. This method can create some visual errors that may be caused by the slightly oblique shooting angle of the photographs. Furthermore, since the third axis length of the cemented clasts remains unknown when determining mass and weight for the first five largest clasts for each site, the relevant third axis lengths were assumed to be equal to the smaller axes' lengths.

In the study area, the dominant grain size is cobble, with the largest clast size being a coarse boulder up to 3.21 m in diameter (Figure 4.4b). This indicates the presence of strong wave energies capable of transporting these coarse-grained clasts in this marine setting. Additionally, the clast size decreases from E to W (Figure 4.8a) suggests that Kogel Bay and Glencairn in False Bay experienced more powerful wave energies compared to Misty Cliffs and Karbonkelberg locations along the Atlantic Seaboard.

The general absence of fine-grained sediments (Figure 4.1b; Figure 4.2c; Figure 4.3e-f-g; Figure 4.4e) among the clasts in the studied clast-supported conglomerates suggests that their accumulation occurred as a coarse-grained, highly porous armoured beach face deposit during persistently recurring and vigorous palaeo-storm events (Isla 1993; also see below). Armoured beach face deposits are characterized by the steep beach faces (i.e., sea-ward dipping slopes), chiefly because backwash is ineffective in flattening gravel accumulations (Orford et al., 1991). A metanalysis by Bujan et al. (2019) revealed a positive correlation between clast size and beach-face slope, with cobble beaches showing the steepest beach-face slope that can range from $\sim 6^\circ$ to 40° . North of the study area, still along the Atlantic seaboard, Spaggiari and Bordy (2023) described Plio-Pleistocene beach sediment comprising pebbles and cobbles with beach-face slopes up to 28° near the palaeo-Orange River mouth.

5.1.2. Sorting

Beach deposits are known for their superior sorting compared to fluvial deposits due to the repeated grading and washing by waves (Emery, 1955). The good sorting of beach sediments is primarily attributed to the uprush (swash) and backwash processes (Bluck, 1998; Buscombe and Masselink, 2006). As waves approach the coast during uprush, all clasts are carried towards the land. During backwash, when the energy decreases through infiltration, larger grains get deposited while smaller ones continue moving towards shore (Turner and Masselink, 1998; Spaggiari and Bordy, 2023). This segregation of grains sizes ultimately results in the concentration of coarse-grained material at areas where maximum energy drop occurs.

In this context, clast sorting is about the speed and density of the sediment transporting medium that imposes limitations on its carrying capacity. To determine the sorting values of the gravel at each study site, cumulative frequency curves were utilized, and according to the standard deviation data of Folk (1980), the results reveal that, in general, the studied clasts are moderately to well-sorted (Figure 3.1b; Figure 4.3e-f-g; Figure 4.4g; Figure 4.9). Therefore, it is deduced that these deposits could have reached moderate to good sorting only with the effect of repeated strong storm waves (Spaggiari and Bordy, 2023), an interpretation that further supports those reached in the grain size analysis (see section 4.1.1).

5.1.3. Roundness

The roundness of clasts is associated with the distance they have been transported, the history of abrasion and attrition (including the rigour of the transporting medium, number of sediment reworking cycles), the original clast size and composition as well as the original state of weathering of the source rock (Boggs, 2006:68). The studied deposits are dominated by quartzite cobbles (Figure 4.6) that show a high degree of roundness, as indicated by visual analysis aided by a standard comparison chart of Powers (1953), with sub-angular clasts comprising merely 7% of the overall clasts counted (Figure 4.7b).

While determining the precise transport distance of clasts is complex, it is conceivable that the studied gravelly sediments were not conveyed over long distances but were rather extracted from nearby cliffs (see below). This assumption is further supported by the lack of local geological evidence for any serious river systems capable of transporting these large clasts from landward locations onshore. Furthermore, the clasts being identical in lithology to the dominant bedrock type – the highly fractured (Theron et al., 1992:29; Xu et al., 2009), quartz-dominated Silurian clastic metasedimentary rocks of the Lower-Middle Ordovician Peninsula Formation (Table Mountain Group or TMG; Shone and Booth, 2005; Flemming, 2016), – also supports this possibility. Therefore, *in situ* wave abrasion is deemed herein as one of the most effective factors in increasing the roundness of the studied clasts.

The correlation between original clast size and roundness suggests that larger clasts, due to their ability to roll and slide along the bedrock, undergo more effective smoothing compared to smaller clasts (Figure 4.11; Folk, 1978; Boggs, 2006:68). In the study area, this is supported by the observation that, from W to E, the proportion of better-rounded clasts increases among the large clast size population (i.e., larger clasts in the E tend to be more well-rounded than smaller ones in the W; Figure 4.8b). Furthermore, this also suggests that the wave energy levels were conceivably higher in False Bay than along the Atlantic Seaboard, a conclusion also supported by the westward increase in overall grain size.

The clasts enclosed by the weathering-resistant but highly fractured cliffs were likely exposed to *in situ* erosion due to intense wave energy (Sneed and Folk, 1958; McKenna et al., 2011;

Bordy and America, 2016). During such a process, sediments are constantly being reworked on the foreshore and undergo effective edge abrasion. In this process, the corners and edges of the clasts break off as the clasts collide with each other and the bedrock during transport. In order to assess *in situ* abrasion effects, Bertoni et al. (2012) conducted research on the marble pebbles placed along an artificial coarse-grained beach. The findings of this investigation revealed that after only three storm events occurring in two months, there was a notable increase in the roundness degree of tracer pebbles. As a result of the long-term effect of the abrasion, the clasts become smoother and more rounded i.e., texturally supermature (Folk, 1951; Waag and Ogren, 1984; Nichols, 2009; McKenna et al., 2011).

In addition to *in situ* abrasion of the sediment and the degree of *in situ* fracturing of the source rock, the overall source rock lithology, encompassing mineralogy and textural properties, including fabric are further important factors that affect the roundness degree of the clasts (Sneed and Folk, 1958; Boggs, 2006:68). Chiefly, crystalline rocks composed of tightly interlocking, harder minerals like quartz are resistant to abrasion and acquire a rounded shape in highly energetic sediment transport process. In this study, the composition and textural properties of clasts in the beach sediments identify them as orthoquartzite – a type of metasedimentary rock commonly referred to as quartz arenite (Pettijohn, 1987:176; Shone and Booth, 2005). Its defining characteristic lies in its high concentration (over 95%) of quartz, the hardness of which ranks 7 on the Mohs hardness scale (Boggs, 2009:170). The durability of orthoquartzite can be attributed to both its high quartz content of the original sediment grains (and cement) and a low degree of metamorphism during the Cape Orogeny (Pettijohn, 1987; Shone and Booth, 2005), which resulted in a crystalline texture of interlocking minerals. Quartzite has been shown to exhibit three times greater resistance to abrasion than limestone in a case study focusing on the effect of mineralogy on the abrasion rate of pebbles on Devon Beach and South Wales Beach (Dornbusch et al., 2002). Considering this strong resistance of orthoquartzite to erosion, it can be inferred that the well-rounded orthoquartzite clasts originating from the local, highly fractured bedrock of the Lower-Middle Ordovician Peninsula Formation (TMG; Flemming, 2016) underwent prolonged attrition in vigorous currents induced by the local robust wave energy. Again, this lends further support to the conclusion put forward in the discussion of the grain size and sorting of these sediments (see sections 4.2.1 and 4.2.2).

5.2. Hydraulic model

It has been previously noted that the transportation of boulders is contingent upon high-energy conditions; however, the more precise reconstruction of the palaeo-hydraulic processes associated with such highly energetic currents require certain computations, which are essentially estimations of variable accuracy. For continental settings, the assessment of palaeo-hydraulic parameters is mostly associated with flooding in fluvial and peri-glacial settings. The estimation of palaeo-flood velocity can be derived from parameters such as stream slope and cross-sectional flow area (Bordy and America, 2016; Bordy et al., 2018).

In marine settings, Nott (1997) established hydrodynamic models to determine the minimum wave height necessary for a tsunami and storm wave to initiate coastal boulder transport. This methodology led to an extensive application of formulas along with new formulaic developments in marine sedimentology and geomorphology (Nott, 2003; Imamura et al., 2008). The majority of these equations comprise several parameters that are difficult to approximate for ancient deposits, including the axes of boulders in three dimensions, wave period, run-up elevation, beach slope, swash velocity, etc. (Lorang, 2000; Nott, 2003).

While the wave heights estimated as per the Nott (2003) formula are 27.78, 11.24, 4.44 and 4.31 m for Kogel Bay, Glencairn, Karbonkelberg and Misty Cliffs, according to the formula of Pignatelli et al. (2009), they are 3.29, 1.33, 0.70 and 0.40 m, respectively (Table 4.2). Although the closeness of the estimated average wave heights to each other is noteworthy, the values of Nott (2003) for the highest wave heights estimated for the largest boulders in the study sites are almost 7 times higher than those of Pignatelli et al. (2009). Cox et al. 2020 examined storm height data from the Aran Islands to evaluate the precision of Nott's (2003) equations and concluded that it produced excessively large values for wave heights. This raises questions about the reliability of findings derived from Nott's (2003) formula in this study.

Previous research conducted along the Atlantic Seaboard of South Africa coast has recorded wave heights reaching up to 16 m (Jury et al., 1986), while a more recent study revealed that wave heights near Hout Bay were ~4.5 m in 2005 (Didenkulova et al., 2006). The east coast area of South Africa in KwaZulu-Natal also experienced a storm in 2007, which resulted in

waves of around 12 m in height (Salzmann and Green, 2012). Except for the Kogel Bay site data, the estimated palaeo-wave heights (Table 4.2) are consistent with these recently measured South African values of wave-breaking heights. The estimated wave height of 27.78 m to transport the largest boulder at Kogel Bay, with an a-axis of 3.21 m and a weight of approximately 44 tonnes, can be seen as an extreme value. However, it is worth noting that the wave height estimated herein from Nott's (2003) formula for Kogel Bay is close to the 21.5 m wave height estimated for the Pleistocene by Galindo et al. (2021), using the same formula applied to a 2258 kg basalt boulder on El Confital beach in Spain.

5.3. Percussion marks

Typically occurring on well-rounded and smooth-surfaced, but hard cobbles and boulders of quartz, quartzite and chert (Klein, 1963), clasts with mechanically induced crescentic attrition marks are common in a wide range of depositional settings (Mayer, 1997; Bordy et al., 2018). Their recognition enhances the determination of ancient sedimentary processes, as the preservation of such surface markings is linked to the final phase of the sedimentary cycle (prior to burial), and thus provides clues on the characteristics, including the energy level, of the transporting medium (Boggs, 2006:69).

Although relevant studies in marine settings that estimate the wave power during the formation of these percussion marks on orthoquartzite boulders are lacking, it is well established that they form when the powerful scouring currents churn the bedload, causing clasts to collide and bounce off the bedrock (Figure 4.4c-d; Figure 4.5c-d-e; Klein, 1963; Folk, 1980; Johnson and Jia-yu, 1989; Corcoran, 2008; Wilson and Lavé, 2013; Bordy et al., 2018; Scheffers, 2020; Madrigal et al., 2022). Goff et al. (2010) interpreted the absence of percussion marks on boulders as an indication of paleo-tsunamiites, as tsunamis have been shown to transport coarse gravel in suspension rather than in bedload. Therefore, the fact that Cape Town fossil beach sediments contain percussion marks is another indicator that they may have been transported as a result of compound events that are constantly reworked by waves, as opposed to a one-and-done event such as a tsunami.

5.4. Storm- vs tsunami-induced wave action

Tsunamis, which originate from underwater earthquakes or landslides or volcanic eruptions, are massive waves in standing waterbodies. Conversely, storm surges result from extreme weather events such as tropical cyclones and hurricanes. Due to their high energy regimes, these sedimentary events can powerfully erode coastal areas, leading to the deposition of potentially thick and often imbricated boulder-size marine sediments (Nott, 2004; Hall et al., 2006; Etienne and Paris, 2010). Furthermore, these deposits can also contain hummocky cross-stratification, a sedimentary structure prominent in the sand-size fraction of these high-energy marine sediments (Fujiwara, 2020; Shiki et al., 2020).

It is relatively easy to examine the impact of waves and their deposits if the analysis is done soon after a recent tsunami or storm. However, ascertaining whether gravelly paleo-beach deposits formed in tsunamis or extreme weather events, usually in a single high-energy event or in powerful, multi-event storms is challenging. This is mainly because the relevant primary sedimentary structures, such as hummocky cross-stratification that typically preserves in finer-grained sediments, are not observed in gravelly paleo-beach deposits (Noormets et al., 2004).

The discrepancy in the time period between tsunami and storm waves, which ranges from ten minutes to one hour for the former and only a few seconds for the latter, results in a significantly greater tsunami wavelength (crest-to-crest distance of waves; in Nott, 2006:109; Fujiwara, 2020). This leads to an exceptional deep tsunami wave-base resulting in extremely powerful seafloor scouring (Nott, 2006:109). For this reason, shell fragments of marine organisms and matrix are more common in tsunamiites rather than storm deposits (Kortekaas and Dawson, 2007; Sztanó et al., 2020; Sugawara et al., 2020; Spaggiari and Bordy, 2023 – also see above). Tsunamis, being single events that rapidly diminish in energy, tend to inefficiently orientate clasts or sort them by size (Hayes et al., 2010; Sztanó et al., 2020). For the same reason, they can deposit clasts of varying sizes from fine-grained sediments to boulders. In contrast, storms, especially along storm-dominated coastlines, where storms are powerful and common, deposit better-orientated clasts with a narrower range of clast sizes (May et al., 2015a; Spaggiari and Bordy, 2023).

Another key difference between tsunamiites and storm deposits is the rounding of their clasts. Storms occurring as continuous wave groups cause sediments in the swash zone to become better-rounded and spherical in shape due to intensely repetitive wave action, which differs from the rounding process of sudden, short-lived tsunamis (Felton, 2002; Sztanó et al., 2020). Moreover, according to Goto et al. (2009), the distance that boulders are transported can also be used as a criterion to distinguish between the tsunamiites and storm deposits. Nevertheless, due to the difficulties associated with determining the precise transport distance, this parameter is not utilized within the context of our research.

The well-rounded and moderately well-sorted clasts with percussion marks but without matrix and shell fragments, in the assessed succession of this study, therefore, suggest that they were likely deposited by storm waves rather than tsunamis. However, occasional tsunamis impacting the studied boulder beaches cannot be excluded, because although tsunamis are not triggered by changes in weather patterns, they can coincide with superstorms.

5.5. Coastal palaeo-geomorphology

Accumulation of coastal boulders depends on wave orientation and differences in coastal geomorphology and topography (Etienne and Paris, 2010). The morphology of beaches is shaped not only by the bedrock properties (lithology, fracture density) but also by wind direction and intensity through its effects on waves as they reach shorelines at different angles. Waves obliquely impacting a coastline create an asymmetrical beach morphology, whereas parallel waves shape a symmetrical concave-shaped coastline (Bird, 2008:170). To infer wave direction when boulders were deposited requires observing imbrication. However, due to the characteristics of the parent rock, namely the highly fractured Lower-Middle Ordovician Peninsula Formation (Flemming, 2016) quartzite in this study, the studied clasts are generally spherical and therefore imbrication is not detected.

In marine coastal settings, four distinct forms of boulder accumulations are commonly observed, consisting of platform boulders, boulder beaches and ridges, cliff-top boulders and offshore boulders (Paris et al., 2011). Platform boulders refer to those that are spread out over

a coastal plain. Boulder ridges and beaches resemble each other as they both comprise large quantities of boulders assembled along the shoreline; however, the former is moved by storms to higher elevations than the latter (Etienne and Paris, 2010). These typologies are noteworthy as they can provide insights into whether the generation mechanisms are initiated by tsunamis or storms. For example, according to Paris et al. (2011), there are no boulder ridges and beaches associated with tsunamis. It is obvious the boulders in this study were neither offshore nor cliff-top boulders, but there is no conclusive data to distinguish which of the other typologies could be applicable in our case.

Interpreting the coastal palaeo-geomorphology during the deposition of fossil beach sediments is limited by the spatially restricted and isolated nature of the study sites. However, the longest, continuously exposed paleo-beach deposit preserved at Kogel Bay lends itself to a tentative reconstruction described below. With a lateral length of around 265 m, it can be suggested that the deposit at this site formed in a concave-shaped pocket beach, as seen in the modern gravel beach deposit at the same location (Figure 5.1a; Sammut et al., 2017).

Pocket beaches are found along mountainous coastlines and are categorised as embayed beach types (Bowman et al., 2009). Natural headlands bordering the beach on both sides act as a breakout, thus exposing the beach to waves from a narrower angle compared to exposed beaches (Bowman et al., 2009). Fellowes et al. (2019) classified embayment beaches based on the degree of indentation and the area they cover, ranging from Class 1 with the least indentation to Class 4 with the narrowest area between the headlands and the beach (Figure 5.2). The Kogel Bay site, where the largest boulders are observed, might have been formed like one of Class 1 or Class 2 embayment categories. This is because depositing very large boulders in narrower width embayments would not be possible due to attenuated wave energy caused by headlands. That is, high-energy waves, which could carry very large boulders, might have been transmitted to the beach without significant weakening, as they could not have been effectively absorbed by the headlands.

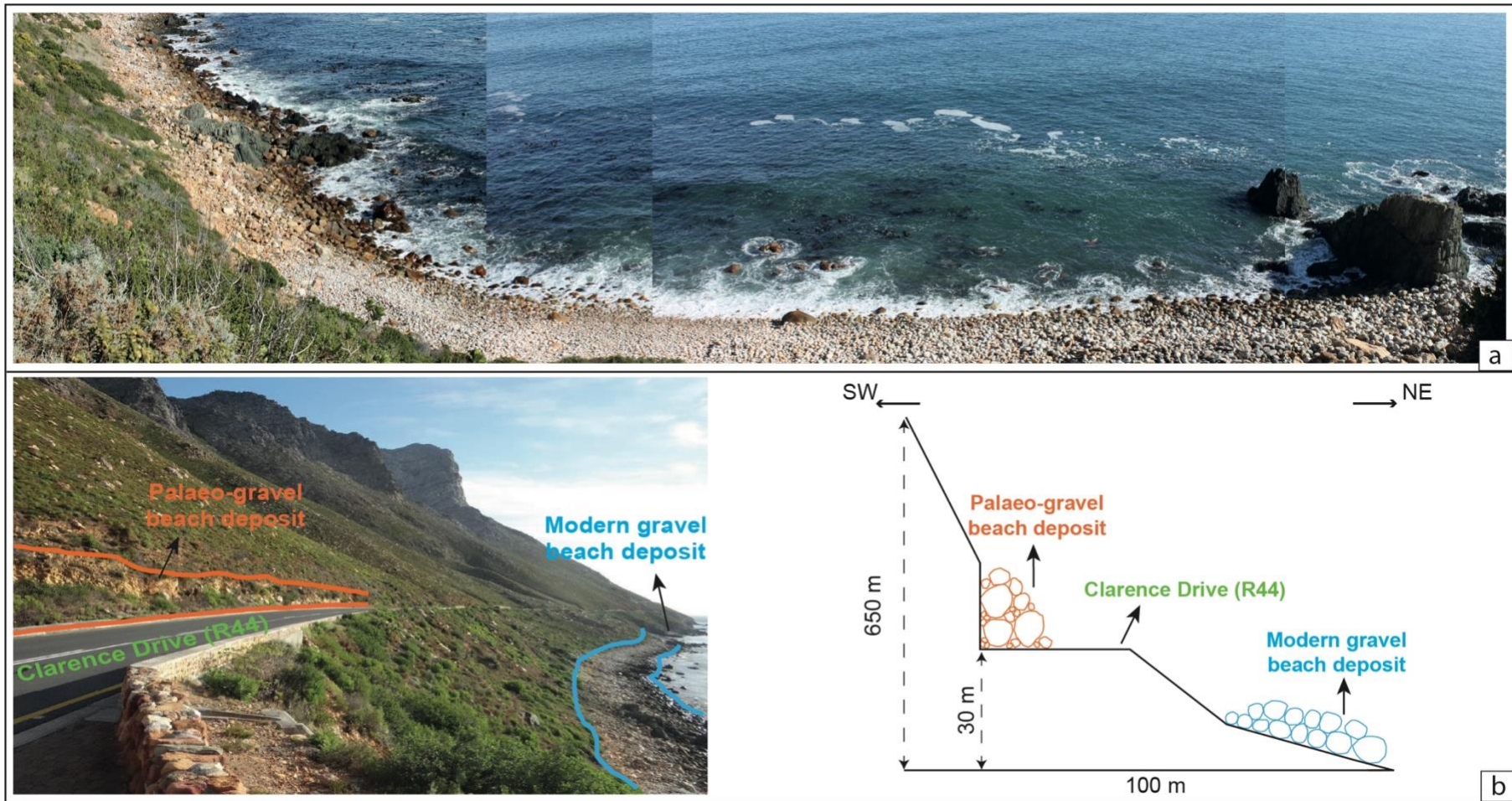


Figure 5.1. a) North-westward view of modern concave-shaped gravel beach deposits at Kogel Bay. b) The palaeo-gravel beach deposits at Kogel Bay are found along Clarence Drive, positioned about 30 meters above the modern gravel beach deposits.

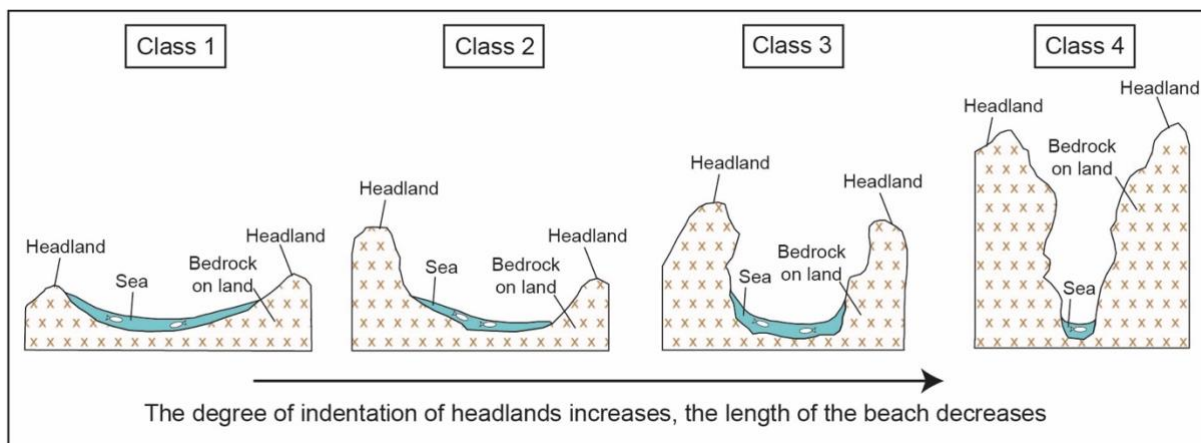


Figure 5.2. The map-view classification of embayed beaches (modified after Fellowes et al. 2019).

5.6. A modern analogue: Cabo das Tormentas

In contrast to typical geology case studies, identifying a modern-day analogue for a high-energy rocky coastline with pocket beaches does not require extensive searching around. This is due to the assumed long-lived and stable tectonic setting of the Cape region as well as the longstanding recognition of the perilous nature of the southwestern tip of Africa's coastline. Notably, already in 1488, Portuguese explorer Bartolomeu Dias had documented the sailing challenges of the area that is marked by powerful storms and extreme waves that have significantly impacted both human lives and livelihoods. These devastating storms earned the “Cape of Storms” (‘Cabo das Tormentas’ in Portuguese) name for the region, and its extreme wave events were quantified through an analysis of weather data collected at Slangkop, situated in the northwest region of the Cape Peninsula. The data from 1979 to 2002 revealed that winter months (June, July and August) experience a 69% occurrence rate of extreme wave events compared to other seasons (Van der Borch van Verwolde, 2004). This disparity is attributed to cold fronts originating from the southern Atlantic Ocean, which create low-frequency surges and extreme waves along the coastline due to prevailing westerly winds (Didenkulova et al., 2006; Troch et al., 2021). One of these extreme wave occurrences was documented in mid-May 1984 (Jury et al., 1986). The event lasted for three days, bringing forth persistent north-westerly winds accompanied by heavy rainfall and snowfall, resulting in significant damage. Meteorological measurements at Cape Point reported wind speeds reaching up to 90 km/h,

while Koeberg recorded even stronger gusts reaching 115 km/h (Jury et al., 1986). Moreover, a maximum wave height of 16 m, unprecedented for that time, was measured in the deep waters of Slangkop (Jury et al., 1986). Furthermore, in 2004, large waves measuring 20 m in height were observed at Hout Bay (Figure 1.1; Spaggiari, 2011). The following year, in August 2005, Kalk Bay experienced waves exceeding 9 m in height (Didenkulova et al., 2006). Another significant storm event occurred on June 7th 2017 as a result of heavy rainfall and strong winds. During this event, wind speeds reached a maximum of 130 km/h, while the wave height measured at the Port of Cape Town was recorded as 11.5 m (Barnes et al., 2021; Troch et al., 2021).

A more recent storm event in January 2022 caused the break up and movement of a segment of the Antipolis shipwreck onshore at Oudekraal, near the Karbonkelberg study site (Figure 5.3b; Froneman, 2022). It appears that the 2022 onshore transport of part of the wreck, which had remained submerged offshore since the sinking of the Antipolis in 1977 (Figure 5.3a), resulted from a convergence of marine events: relatively strong winds and the spring tide associated with the full moon. The wind speed data both between 2020–2022 and specifically on 19–20 January 2022 was obtained from the South African Weather Service (SAWS) (see Appendix E) to find out how strong the wind speed was when a large metal wreck was transported and to correlate this with the wind speed that would have been effective during the transport of the largest (3.21 m) boulder in the study area. However, since the Slangkop, Molteno Reservoir and Kirstenbosch SAWS stations were located 18, 8 and 6.5 km away from Oudekraal, respectively, the data did not exactly reflect the wind speed effective in transporting the shipwreck. Despite seemingly moderate wind speeds of 21.6, 9.4 and 8 km/h respectively from Slangkop, Molteno Reservoir and Kirstenbosch on 19–20 January, the combination of these winds with the powerful tidal currents generated significant turbulence along this rocky seascape. This extraordinary swell proved potent enough to displace ~25 m by ~13 m metal segment of the wreck from her shallow-water location of ~ 10 m below sea level and deposit it ~30 m away onto the Oudekraal beach (Figure 5.3c).

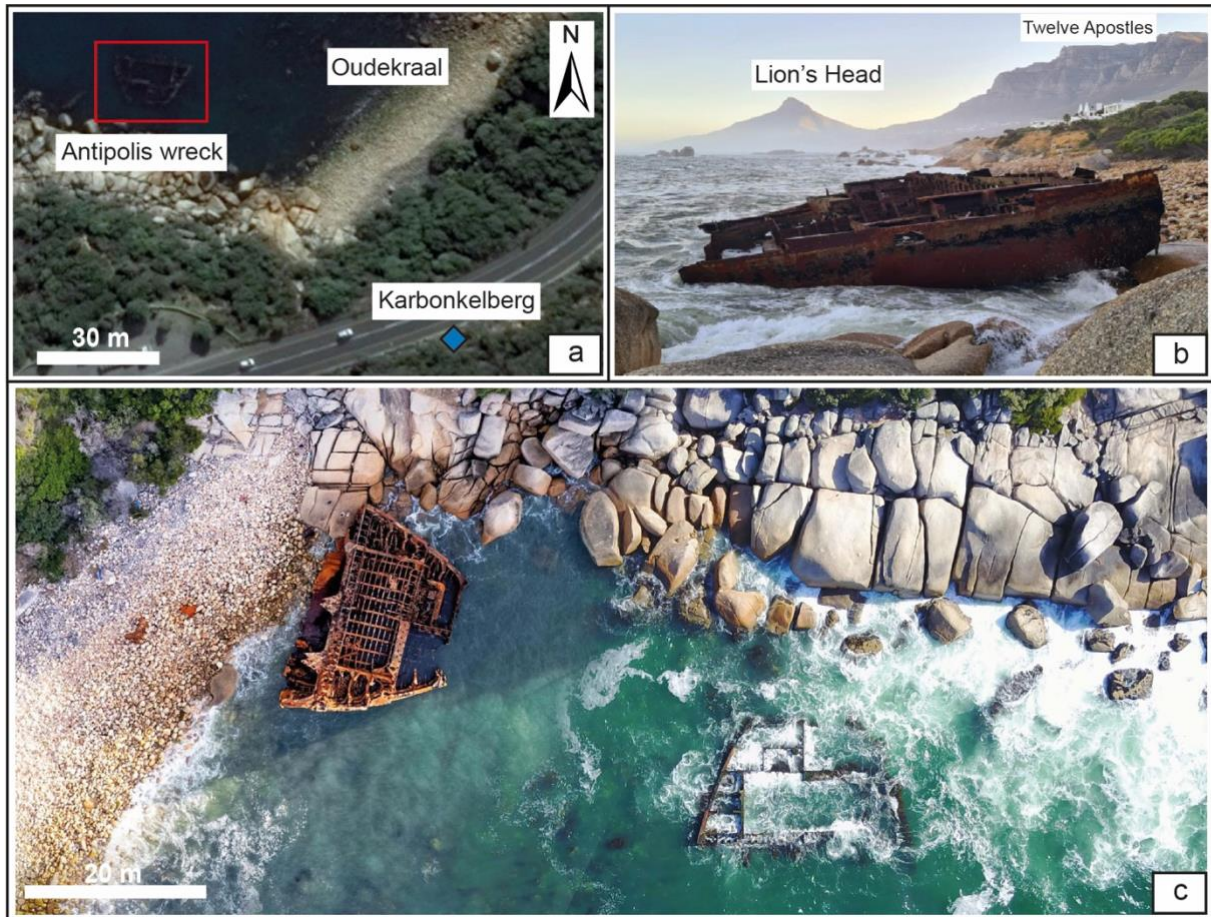


Figure 5.3. Locations of the Antipolis shipwreck in the Cape region pre- and post-2022 when a large swell moved a large segment of the wreck 30 m onshore. a) The Former location of the submerged Antipolis wreck between 1977 and 2022, approximately 30 m off the coast of Oudekraal. b) Position of the Antipolis wreck on the Oudekraal beach since January 2022. c) Composite view of the wreck before and after January 2022 in the same image. Photos modified from Wikipedia, Froneman (2022) and Google Earth.

5.7. The Pliocene greenhouse world in the regional context

The rise in global temperatures on both continents and oceans is mainly due to the surge of greenhouse gas concentration in the atmosphere. This warming trend can cause the formation of tropical cyclones, particularly within low latitudes (5° to 30°) over tropical oceans (Nott, 2006:77). Tropical cyclones become more intense as air evaporates from the oceans and continues to rise to the top of the troposphere (Nott, 2006). Moreover, intensified cyclones generate escalating wind speeds, resulting in long-lasting waves and exposing coastal

environments to more extreme storms (Rovere et al., 2017). It has been suggested that this entire cycle of events triggering each other also took place in the Pliocene greenhouse world. Weather conditions, also set off by permanent El Niño oscillations in that era (Wara et al., 2005), are known to cause intense storms and tropical cyclones, which ultimately lead to erosion, transportation and deposition of boulder-size sediments (Fedorov et al., 2006).

Sea level changes as a result of global impacts (glacio-eustasy and tectono-eustasy; Siesser and Dingle, 1981) have caused the formation of raised-beach sediments on the west coast of South Africa (Tankard et al., 1982; Hearty et al., 2020). The transgression that took place during the Late Miocene – Early Pliocene period (Dingle, 1971) is thought to have caused the sea level to rise by approximately 25 meters compared to today (Compton, 2004; Hearty et al., 2020). In addition, marine terraces were found at depths of 30 and 50 meters, proven by vertebrate fossils of similar age to the others (Pickford, 1998).

Assuming that the palaeo-beaches examined in this research formed contemporaneously and at least partially in the Pliocene, we can infer subsequent local marine geodynamic processes using the sedimentological and geomorphological characteristics of the deposits (Figure 5.4). A 25-meter rise in sea level during that time would have flooded the Cape Flat under the ‘Cape Flats Seaway’ of Compton (2004) (Figure 5.4), which could have resulted in False Bay opening to Table Bay and hence Kogel Bay being on the palaeo-Atlantic coastline of Africa. Also, separated from the African mainland, the Cape Peninsula would be divided into two islands by the possible Fish Hoek channel (Figure 5.4). In the case of sea level higher than 25 meters, the Cape Flat seaway would widen more towards the north (Figure 5.4). During those high sea levels, beach deposits (including some boulder beds), which were previously only interacting with the waves in the beach zone, may have become affected by storms in the newly developed nearshore regions (i.e., the area between shoreline and offshore-transition zone).

Because the characteristics of coastal sediments and their depositional conditions are directly related to their location on the seafloor and sea level (Nichols 2009), possible changes in coastal geomorphology (Figure 5.4) as a result of higher sea levels would have altered the energy distribution to which both the nascent palaeo-Atlantic coastline and ‘Cape Peninsula islands’ would be exposed. Based on the absence of impact marks, and containing smaller and less

rounded clasts than Glencairn and Kogel Bay indicates that Misty Cliffs and Karbonkelberg palaeo-beach deposits might have been deposited on lower energy and smaller, more disconnected pocket beaches along the Cape Peninsula Islands (Figure 5.4). Undoubtedly, the highest energy levels of the four study sites were experienced near Kogel Bay, as shown by the sedimentological characteristics of the deposits (Figure 4.4; Figure 4.5). This is because changes in shoreline geomorphology due to high sea level may have led to stronger currents at Kogel Bay.

Based on the altitudes of palaeo-beaches above sea-level extracted from the 2021 LIDAR dataset (Table 4.1), three different scenarios can be considered regarding their ages. Firstly, when the altitudes of the locations above sea-level are compared to other Pliocene aged palaeo-beaches (Tankard et al., 1982; Pickford, 1998; Hearty et al., 2020), the four studied palaeo-beaches may be the same age, that is, Pliocene. Secondly, considering those sea-level altitudes of Karbonkelberg (+ 21.3 m), Glencairn (+ 17.9 m) and Misty Cliffs (+ 12.8 m) are close to each other, the three are the same age and Kogel Bay (+ 30.9 m) is older than them. The last scenario in which Misty Cliffs (+ 12.8 m) is the youngest. There may be more scenarios than those that can be attempted with the data available within the scope of this study, but more precise elevation data and most importantly age dating of the deposits are required to determine their relative ages and correlation to other post-Miocene deposits.

In summary, the studied fossil beach deposits around Cape Town, comprising of moderately well-sorted, rounded, orthoquartzite cobbles and boulders of up 3.2 m in diameter with locally plentiful percussion marks, are interpreted as storm-generated sediments that formed under devastatingly intense wave events. This interpretation is strengthened upon considering that the South African coasts have been storm-dominated since at least the Miocene (De Decker, 1988; Spaggiari and Bordy, 2023) and that the studied boulder beds are thought to have been deposited during the Plio-Pleistocene (Krige, 1927; Haughton, 1933), a period characterized by more intense and frequent storms and tropical cyclones (Fedorov et al., 2010; Hearty et al., 2020; Kiehl et al., 2021).

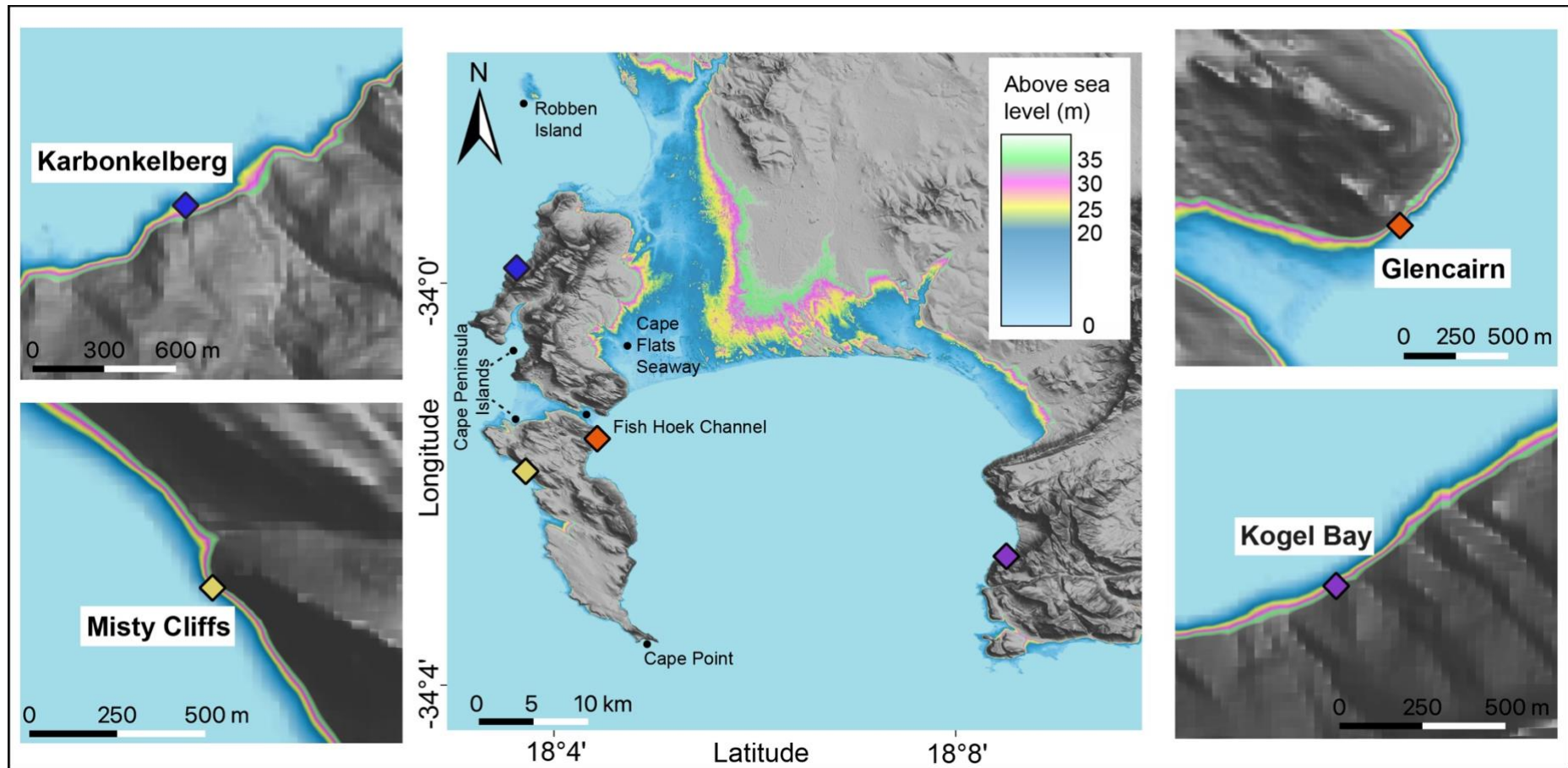


Figure 5.4. Reconstruction of Cape Town's south coast to 20 m (dark blue), 25 m (yellow), 30 m (pink) and 35 m (green) high sea level conditions. Based on the 2021 LIDAR dataset, it might be possible that the palaeo-beach deposits at the Kogel Bay location may have been deposited at higher sea-level conditions than the others. Labelling adopted from Figure 60 in Compton (2004).

6. CONCLUSION

Knowledge of the mechanisms behind boulder transportation and deposition along coastal areas is crucial for comprehending the erosive impacts of high-energy wave events, such as tsunamis, storms, and tropical cyclones. As boulder beaches are indicators of high sea levels in the past geological periods, they also provide information about the ancient palaeo-environment. Within the scope of this study, coarse-grained sediments consisting of orthoquartzite clasts in marine terraces located in four different locations around Cape Town are examined. In order to reconstruct the geological history of these deposits that are assumed to have been deposited during the Pliocene (Krige, 1927; Haughton, 1933)), when high temperatures prevailed and the sea level was around 25 m higher than today, the size, sorting, roundness and maturity degrees of the clasts were determined by clast counting. In addition, predictions were made using the hydraulic model formula about the wave heights at which the boulders could have been carried.

Based on the clast count data, it was observed that marine terrace sediments are primarily composed of cobbles (73%), with boulders making up 17% and pebbles accounting for 10%. Furthermore, percussion marks were identified on boulder-sized clasts, indicating high-energy collisions between them. Most clasts display shapes ranging from subrounded to well-rounded (93%), while the deposits have varying degrees of sorting, ranging from poorly sorted to moderately well-sorted, overall indicative of a textural maturity that has advanced to the supermature stage. Additionally, calculations suggest that the largest clast (3.21 m) could have been transported by an estimated wave height of approximately 3.3 m for Pignatelli et al.'s formula (2009) or 28 m for Nott's (2003) formula. The collective findings suggest that the sediments containing boulders up to 3 m in size are predominantly composed of rounded (despite being highly resistant orthoquartzites) and moderately well-sorted clasts, with locally developed percussion marks, were formed as a result of intense destructive waves of storm origin.

This study is significant as it demonstrates the type of the high-energy, erosive events that the Cape Town palaeo-beaches were exposed to in the fairly recent geological past. Assuming that

the age of these sediments is indeed Pliocene, these high-energy events could have resulted from high temperatures created by climatic changes in that particular geological period and which may occur again with future global warming and sea level rise. Although an estimate has been made for the Cape Town marine terraces regarding their relative ages to each other based on their altitudes from the main sea level within the scope of this thesis, their exact ages are still unknown. Further studies should prioritize filling this gap, particularly considering the advancements in radioisotopic dating methods capable of accurately determining the ages of carbonate rocks and calcareous marine shells, despite their apparent absence at the four study sites. Another method would be to date the surface of the exposed deposits or the platform on which they are located, using cosmogenic radionuclides which are the effects of the interactions of cosmic rays with atoms in the atmosphere. Additionally, investigating the dimensions of percussion marks can offer insights into the magnitude of the wave energy responsible for their formation.

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8. APPENDICES

Appendix A. Clast sizes (cm) and roundness values for the four different study sites.

Karbonkelberg

Clast ID	Length	Width	R	Clast ID	Length	Width	R	Clast ID	Length	Width	R
1	15.35	13.50	3.5	51	20.89	12.33	5.5	101	12.32	9.78	3.5
2	14.25	5.32	4.5	52	22.26	36.85	4.5	102	58.90	41.31	5.5
3	51.24	48.98	5.5	53	15.04	10.86	4.5	103	11.93	5.30	5.5
4	15.07	6.41	5.5	54	12.85	8.72	4.5	104	9.66	8.14	4.5
5	40.88	23.36	5.5	55	13.30	5.62	5.5	105	12.22	5.47	4.5
6	6.85	6.93	2.5	56	10.30	9.31	2.5	106	10.81	6.82	5.5
7	16.32	12.49	2.5	57	11.59	9.63	3.5	107	10.07	7.29	5.5
8	35.95	28.98	5.5	58	9.89	5.78	4.5	108	11.57	9.55	4.5
9	44.63	23.87	3.5	59	22.03	13.56	4.5	109	16.42	14.60	5.5
10	15.76	8.16	4.5	60	25.01	21.27	4.5	110	53.95	22.50	5.5
11	17.84	11.34	5.5	61	14.89	8.94	2.5	111	18.18	12.01	5.5
12	26.54	21.01	5.5	62	9.44	7.19	3.5	112	33.48	12.19	5.5
13	32.82	22.19	5.5	63	5.23	4.71	3.5	113	6.11	4.86	3.5
14	33.90	19.53	5.5	64	27.71	11.50	4.5	114	7.40	3.73	3.5
15	16.53	5.48	4.5	65	13.38	7.11	2.5	115	12.00	8.10	2.5
16	5.10	3.44	3.5	66	20.23	19.69	5.5	116	30.40	15.44	5.5
17	9.71	2.82	4.5	67	23.90	8.53	4.5	117	21.93	7.79	5.5
18	3.47	2.65	5.5	68	30.75	16.35	3.5	118	15.96	12.39	3.5
19	6.33	5.74	3.5	69	23.29	12.83	5.5	119	11.98	7.15	3.5
20	11.03	5.59	3.5	70	10.23	5.63	5.5	120	14.62	7.47	5.5
21	10.68	9.79	2.5	71	11.90	4.37	5.5	121	30.53	16.45	5.5
22	11.95	6.60	4.5	72	20.16	11.82	4.5	122	51.76	43.83	4.5
23	10.41	7.71	3.5	73	14.81	7.44	3.5	123	16.78	6.04	2.5
24	15.18	5.02	3.5	74	8.95	5.84	3.5	124	41.44	28.56	5.5
25	12.31	7.61	4.5	75	13.34	6.86	2.5	125	14.60	7.34	4.5
26	32.66	20.05	3.5	76	8.39	3.91	3.5	126	13.22	5.56	4.5
27	11.20	4.41	2.5	77	6.45	3.60	3.5	127	25.58	19.93	5.5
28	8.35	7.92	5.5	78	5.63	4.34	2.5	128	22.81	19.16	4.5
29	13.35	8.76	3.5	79	12.66	11.16	4.5	129	6.72	6.69	2.5
30	20.92	10.62	4.5	80	11.43	10.30	5.5	130	8.60	3.70	3.5
31	7.93	6.64	4.5	81	8.80	4.90	3.5	131	32.63	17.91	3.5
32	12.22	6.69	3.5	82	14.84	9.93	5.5	132	15.81	5.39	3.5
33	6.08	4.95	3.5	83	20.39	13.52	5.5	133	22.70	8.69	5.5
34	16.73	11.14	4.5	84	18.59	7.55	4.5	134	10.99	6.86	3.5
35	7.90	6.50	3.5	85	11.54	6.37	5.5	135	12.27	5.99	2.5
36	33.66	8.80	3.5	86	11.26	7.27	5.5	136	10.57	5.43	2.5
37	34.03	27.21	5.5	87	13.13	10.77	5.5	137	11.68	5.02	2.5
38	34.65	11.80	2.5	88	14.19	9.94	3.5	138	14.55	5.25	3.5
39	13.04	5.97	3.5	89	9.64	5.34	3.5	139	12.01	8.00	2.5
40	8.15	6.78	4.5	90	17.20	11.57	4.5	140	22.88	19.55	4.5
41	6.86	4.21	3.5	91	14.29	6.12	3.5	141	8.79	4.37	3.5
42	34.75	16.30	2.5	92	14.25	5.66	4.5	142	24.13	11.50	5.5
43	6.19	3.43	2.5	93	7.26	5.26	2.5	143	4.60	2.99	4.5
44	5.39	5.24	5.5	94	16.84	8.76	5.5	144	8.49	8.11	3.5
45	12.52	7.12	2.5	95	34.70	20.67	5.5	145	6.18	2.98	4.5
46	9.69	3.84	3.5	96	23.33	21.95	3.5	146	7.38	4.13	3.5
47	20.63	13.57	5.5	97	13.04	3.99	3.5	147	8.81	6.46	2.5
48	7.92	4.19	4.5	98	22.04	5.17	4.5	148	23.24	15.80	5.5
49	11.41	7.44	4.5	99	19.33	8.70	4.5				
50	15.35	9.32	4.5	100	9.23	3.00	4.5				

Glencairn

Clast ID	Length	Width	R	Clast ID	Length	Width	R	Clast ID	Length	Width	R
1	96.25	52.69	3.50	51	20.02	17.78	4.50	101	9.42	7.14	3.50
2	70.04	64.15	3.50	52	14.99	10.71	3.50	102	13.49	8.32	3.50
3	50.31	24.97	3.50	53	30.22	24.71	2.50	103	16.32	11.47	4.50
4	17.74	4.98	4.50	54	71.48	40.87	5.50	104	13.78	7.04	2.50
5	9.50	7.65	5.50	55	13.28	14.23	2.50	105	13.30	10.79	4.50
6	18.36	8.26	3.50	56	28.77	13.47	5.50	106	27.38	14.88	3.50
7	22.64	10.74	2.50	57	25.61	11.61	3.50	107	18.90	11.88	3.50
8	15.91	4.93	3.50	58	21.24	16.47	3.50	108	12.85	9.75	3.50
9	16.21	7.83	2.50	59	30.56	21.01	2.50	109	15.46	6.75	4.50
10	10.28	6.72	3.50	60	24.93	17.14	2.50	110	12.82	6.37	2.50
11	10.68	9.18	3.50	61	60.67	59.72	4.50	111	15.12	7.30	2.50
12	65.13	36.87	4.50	62	47.39	32.49	4.50	112	19.56	13.75	3.50
13	30.12	18.60	4.50	63	25.92	23.30	2.50	113	20.37	7.77	3.50
14	69.14	29.17	3.50	64	70.12	34.58	4.50	114	24.95	9.02	3.50
15	14.71	7.96	2.50	65	48.14	21.23	5.50	115	61.81	47.47	3.50
16	19.93	15.61	4.50	66	16.50	16.39	2.50	116	41.20	38.10	4.50
17	33.08	14.42	4.50	67	9.79	7.74	5.50	117	121.3	68.60	4.50
18	33.06	5.51	3.50	68	16.73	10.96	3.50	118	25.52	16.55	4.50
19	9.81	6.42	3.50	69	41.06	39.15	3.50	119	44.99	13.02	3.50
20	58.60	50.12	3.50	70	16.03	15.80	2.50	120	59.00	22.86	3.50
21	19.36	19.08	3.50	71	12.24	11.38	3.50	121	53.63	20.53	4.50
22	31.20	8.03	2.50	72	35.17	29.06	4.50	122	19.74	14.66	3.50
23	101.4	78.24	3.50	73	12.60	7.67	2.50	123	42.26	37.36	3.50
24	47.67	32.87	3.50	74	20.12	5.88	5.50	124	38.41	33.87	3.50
25	69.70	31.92	4.50	75	12.88	10.78	3.50	125	51.56	27.08	3.50
26	31.49	3.99	3.50	76	15.87	8.24	4.50	126	84.55	27.39	3.40
27	18.83	13.54	2.50	77	19.26	9.60	3.50	127	23.88	10.24	4.50
28	78.72	26.80	2.50	78	14.39	6.73	1.50	128	15.16	12.69	3.50
29	19.94	8.12	4.50	79	20.41	14.94	3.50	129	13.28	4.90	3.50
30	30.64	13.89	3.50	80	21.24	16.80	4.50	130	61.82	23.23	4.50
31	18.40	22.33	2.50	81	33.66	15.92	3.50	131	129.9	92.74	3.40
32	25.44	17.04	3.50	82	21.90	16.26	4.50	132	18.97	10.99	4.50
33	46.73	35.93	4.50	83	62.54	26.92	2.50	133	26.09	21.67	3.50
34	54.26	40.67	3.50	84	27.04	16.21	3.50	134	18.33	14.59	4.50
35	35.50	29.39	3.50	85	9.52	9.22	4.50	135	37.66	35.04	4.50
36	41.54	30.59	2.50	86	14.50	8.55	3.50	136	12.14	6.84	4.50
37	42.89	36.41	4.50	87	11.29	6.17	4.50	137	10.65	7.05	3.50
38	68.70	26.34	3.50	88	11.42	11.39	4.50	138	11.18	9.06	2.50
39	59.06	33.45	3.50	89	52.05	50.58	4.50	139	8.89	6.76	4.50
40	25.35	10.17	3.50	90	34.20	15.11	4.50	140	89.96	35.86	3.50
41	56.02	45.62	4.50	91	14.23	11.75	2.50	141	12.04	10.21	3.50
42	19.35	8.93	3.50	92	23.76	23.66	2.50	142	16.77	12.75	3.50
43	52.89	26.19	3.50	93	16.62	7.80	4.50	143	13.69	10.71	3.50
44	26.64	14.46	5.50	94	13.75	11.09	3.50	144	13.88	6.53	4.50
45	71.63	39.18	3.50	95	20.25	10.17	3.50	145	18.57	10.19	3.50
46	55.67	21.42	4.50	96	11.45	9.03	2.50	146	16.17	9.13	4.50
47	24.05	16.56	5.50	97	7.89	6.06	3.50	147	16.07	12.73	2.50
48	65.15	52.05	4.50	98	14.42	13.02	3.50	148	12.45	10.61	4.50
49	132.7	67.57	3.50	99	8.14	5.45	3.50	149	24.94	14.58	4.50
50	42.96	24.79	3.50	100	12.64	5.94	4.50	150	21.88	21.73	2.50

Glencairn

Misty Cliffs

Clast ID	Length	Width	R	Clast ID	Length	Width	R	Clast ID	Length	Width	R
151	26.51	13.64	2.50	201	19.03	12.60	4.50	1	15.94	13.74	3.5
152	20.96	7.71	3.50	202	11.59	5.63	5.50	2	47.59	25.36	2.5
153	15.82	14.10	3.50	203	8.31	6.54	5.50	3	21.04	11.25	5.5
154	44.48	23.51	2.50	204	18.30	12.12	5.50	4	15.98	10.89	3.5
155	11.79	6.82	2.50	205	21.82	5.78	4.50	5	20.05	15.47	4.5
156	7.03	6.13	3.50	206	11.47	10.19	4.50	6	8.08	4.57	3.5
157	7.90	4.94	3.50	207	8.92	4.18	3.50	7	29.06	11.07	2.5
158	7.40	5.81	5.50	208	11.03	4.64	3.50	8	10.38	9.00	5.5
159	10.61	5.46	3.50	209	25.14	18.34	4.50	9	8.72	8.60	5.5
160	14.84	3.10	3.50	210	9.42	4.78	3.50	10	12.80	6.47	3.5
161	44.33	33.43	4.50	211	155.5	50.91	4.50	11	9.38	4.94	3.5
162	40.65	25.55	2.50	212	43.04	20.15	2.50	12	7.33	5.90	2.5
163	24.02	22.86	4.50	213	20.15	11.29	4.50	13	10.40	8.41	3.5
164	8.80	6.01	5.50	214	12.48	9.59	2.50	14	11.11	8.72	5.5
165	14.61	7.24	4.50	215	19.44	9.27	2.50	15	12.71	3.86	2.5
166	36.76	17.27	4.50	216	23.85	16.55	5.50	16	9.61	6.55	2.5
167	18.17	9.84	4.50	217	31.62	13.80	3.50	17	7.61	4.50	3.5
168	20.21	10.79	4.50	218	71.32	68.63	4.50	18	4.65	4.23	2.5
169	34.09	8.85	4.50	219	34.29	18.29	2.50	19	6.90	4.38	2.5
170	29.65	9.56	4.50	220	17.52	12.24	3.50	20	4.69	4.04	2.5
171	21.79	15.38	3.50	221	51.49	43.53	2.50	21	3.37	2.26	3.5
172	11.09	10.94	2.50	222	42.95	24.36	4.50	22	5.53	2.81	3.5
173	19.14	12.44	3.50	223	35.09	10.09	3.50	23	3.19	3.13	3.5
174	15.86	12.17	4.50	224	26.77	25.35	3.50	24	7.02	3.61	3.5
175	20.54	13.61	3.50	225	61.31	14.15	4.50	25	9.02	2.67	2.5
176	19.92	10.57	4.50	226	18.30	18.00	4.50	26	5.56	2.00	2.5
177	11.81	9.76	3.50	227	84.90	44.66	4.50	27	3.13	2.23	2.5
178	8.91	6.77	5.50	228	58.62	55.81	5.50	28	2.81	1.64	3.5
179	11.48	6.12	4.50	229	80.99	29.21	4.50	29	4.25	2.76	3.5
180	9.79	6.81	3.50	230	40.46	23.22	4.50	30	2.83	2.52	3.5
181	9.10	6.01	4.50	231	189.4	41.68	4.50	31	5.63	2.02	3.5
182	34.04	6.30	2.50	232	154.8	49.24	3.50	32	4.44	2.46	3.5
183	14.28	12.48	3.50	233	60.82	34.26	3.50	33	33.72	23.40	3.5
184	23.74	10.32	3.50	234	43.71	24.17	3.50	34	24.57	20.25	5.5
185	104.6	62.36	4.50					35	13.40	11.67	3.5
186	25.70	17.07	3.50					36	13.06	8.40	2.5
187	16.90	8.94	3.50					37	6.85	2.93	3.5
188	14.39	6.62	4.50					38	5.62	6.07	3.5
189	10.34	10.02	3.50					39	12.53	5.03	4.5
190	12.71	4.15	3.50					40	11.77	11.60	4.5
191	63.76	22.36	3.50					41	9.17	3.81	2.5
192	14.10	6.02	4.50					42	10.27	5.28	3.5
193	22.28	20.08	5.50					43	19.74	16.19	5.5
194	48.65	31.40	2.50					44	12.75	6.25	3.5
195	72.08	31.41	4.50					45	7.58	3.59	3.5
196	21.20	10.89	4.50					46	10.76	7.92	2.5
197	22.75	10.20	4.50					47	14.26	11.05	4.5
198	36.88	14.66	2.50					48	15.87	9.89	5.5
199	20.08	11.67	3.50					49	14.68	10.89	5.5
200	26.35	11.79	3.50					50	25.37	19.38	5.5

Misty Cliffs

Clast ID	Length	Width	R	Clast ID	Length	Width	R	Clast ID	Length	Width	R
51	24.07	12.80	3.5	101	13.56	10.20	5.5	151	10.88	5.16	4.5
52	13.24	11.33	5.5	102	15.21	5.10	3.5	152	9.38	5.65	5.5
53	20.11	11.50	5.5	103	14.40	9.92	3.5	153	5.82	3.70	5.5
54	12.95	6.05	2.5	104	44.58	17.82	2.5	154	14.99	6.26	5.5
55	6.27	3.65	3.5	105	6.88	5.30	5.5	155	11.71	6.24	5.5
56	20.70	12.37	5.5	106	15.41	6.73	5.5	156	13.26	3.91	3.5
57	17.87	7.42	5.5	107	16.84	16.77	3.5	157	7.13	3.16	5.5
58	12.82	11.72	4.5	108	16.15	6.95	3.5	158	6.48	4.86	4.5
59	8.46	6.74	4.5	109	12.67	6.27	3.5	159	20.50	15.26	3.5
60	11.41	6.17	5.5	110	6.08	4.81	3.5	160	5.94	3.99	3.5
61	8.55	4.92	3.5	111	11.28	5.67	5.5	161	4.71	4.35	5.5
62	10.81	4.80	3.5	112	27.63	24.75	4.5	162	8.96	3.02	4.5
63	7.43	3.79	4.5	113	38.98	24.66	3.5	163	13.43	8.25	4.5
64	6.70	6.25	4.5	114	23.12	16.08	3.5	164	9.04	4.99	3.5
65	15.80	5.08	2.5	115	10.11	6.38	4.5	165	5.06	2.82	3.5
66	15.76	9.87	5.5	116	34.72	17.05	5.5	166	13.21	12.53	3.5
67	15.93	9.73	5.5	117	14.27	12.37	5.5	167	9.80	8.02	2.5
68	10.50	6.57	5.5	118	12.58	12.11	4.5	168	8.73	7.11	2.5
69	13.57	5.10	4.5	119	10.83	10.28	3.5	169	11.08	9.23	5.5
70	10.72	8.46	4.5	120	14.54	8.85	5.5	170	9.24	8.57	5.5
71	13.18	12.60	2.5	121	12.10	6.31	4.5	171	14.46	6.74	5.5
72	20.05	9.59	2.5	122	19.87	10.15	4.5	172	7.92	5.81	5.5
73	22.09	7.47	3.5	123	25.10	13.56	5.5	173	4.79	3.83	4.5
74	8.53	6.16	3.5	124	7.82	7.67	4.5	174	13.05	5.88	4.5
75	49.77	32.91	3.5	125	19.32	9.82	5.5	175	8.51	4.98	4.5
76	17.62	7.32	2.5	126	8.34	3.18	5.5	176	10.53	5.81	3.5
77	7.22	4.31	2.5	127	9.62	4.39	4.5	177	13.67	10.35	5.5
78	9.70	3.72	2.5	128	16.59	14.56	4.5	178	7.45	7.12	3.5
79	12.67	6.61	2.5	129	13.93	9.45	5.5	179	5.02	3.99	3.5
80	7.48	6.34	3.5	130	13.81	6.81	4.5	180	4.41	3.94	5.5
81	14.37	10.54	4.5	131	14.46	6.36	4.5	181	16.54	4.71	3.5
82	10.06	5.50	3.5	132	7.05	6.47	5.5	182	13.03	8.72	4.5
83	16.36	15.60	2.5	133	16.33	3.26	4.5	183	9.39	9.02	4.5
84	18.97	13.09	2.5	134	21.34	12.66	5.5	184	8.70	6.26	2.5
85	9.35	3.90	4.5	135	12.81	12.28	4.5	185	6.14	5.62	2.5
86	11.28	2.82	3.5	136	7.46	5.09	5.5	186	19.22	6.07	2.5
87	7.57	2.18	4.5	137	15.85	8.25	5.5	187	13.67	6.83	3.5
88	10.50	5.31	3.5	138	10.65	4.96	5.5	188	15.00	3.36	2.5
89	7.15	2.95	3.5	139	13.16	5.72	5.5	189	6.43	3.56	2.5
90	3.89	2.61	2.5	140	9.22	4.41	3.5	190	20.39	18.94	3.5
91	10.00	3.60	2.5	141	10.25	5.42	3.5	191	8.71	4.35	3.5
92	10.46	2.35	3.5	142	19.73	17.47	4.5	192	7.69	5.17	2.5
93	9.39	3.97	2.5	143	9.25	7.14	5.5	193	11.02	3.20	4.5
94	10.62	4.45	4.5	144	9.51	5.73	4.5	194	12.03	10.66	4.5
95	13.36	8.96	5.5	145	16.56	10.28	5.5	195	10.39	7.20	4.5
96	14.11	9.65	5.5	146	16.44	8.63	5.5	196	13.60	9.16	3.5
97	8.95	6.98	2.5	147	9.10	2.50	3.5	197	18.82	8.93	5.5
98	11.51	8.35	3.5	148	6.72	3.07	3.5	198	13.07	12.03	3.5
99	21.24	7.99	4.5	149	13.54	5.89	4.5	199	27.23	26.53	3.5
100	25.16	16.91	5.5	150	34.95	8.10	2.5	200	8.99	5.54	4.5

Misty Cliffs

Clast ID	Length	Width	R	Clast ID	Length	Width	R	Clast ID	Length	Width	R
201	10.11	2.83	3.5	251	9.84	4.01	5.5	301	16.23	12.06	4.5
202	4.81	3.65	4.5	252	5.55	2.71	4.5	302	10.84	7.32	2.5
203	15.06	6.55	4.5	253	11.88	6.30	4.5	303	12.28	8.12	2.5
204	8.79	7.50	5.5	254	4.45	1.43	3.5	304	11.53	8.85	2.5
205	13.37	3.45	3.5	255	6.64	2.18	3.5	305	7.43	5.90	5.5
206	7.01	6.54	4.5	256	3.14	2.94	3.5	306	13.11	6.78	5.5
207	13.77	5.90	5.5	257	9.05	5.84	3.5	307	10.65	2.20	3.5
208	6.15	5.68	3.5	258	6.74	7.68	5.5	308	7.89	5.25	4.5
209	12.00	10.42	3.5	259	6.44	2.69	4.5	309	16.13	12.76	5.5
210	12.58	5.71	4.5	260	5.96	5.30	5.5	310	16.46	11.26	5.5
211	7.75	6.14	5.5	261	6.18	4.60	4.5	311	11.65	3.67	5.5
212	5.22	3.92	5.5	262	13.07	8.71	5.5	312	5.64	3.83	4.5
213	9.37	4.97	5.5	263	6.73	3.73	4.5	313	8.59	2.77	4.5
214	5.95	3.01	5.5	264	9.16	5.93	5.5	314	4.58	4.12	4.5
215	6.63	5.22	4.5	265	25.69	12.67	5.5	315	12.97	5.69	5.5
216	8.64	7.01	4.5	266	10.25	6.29	5.5	316	14.94	9.17	5.5
217	16.27	12.52	4.5	267	8.24	4.62	5.5	317	11.40	6.76	4.5
218	10.04	8.57	4.5	268	11.06	5.76	3.5	318	7.27	4.29	3.5
219	7.10	4.63	4.5	269	13.76	5.57	4.5	319	8.03	4.05	3.5
220	6.94	5.23	4.5	270	10.01	4.23	4.5	320	11.85	6.82	3.5
221	7.27	3.06	3.5	271	17.50	11.06	4.5	321	3.77	1.97	3.5
222	6.63	5.04	3.5	272	10.08	6.84	5.5	322	4.94	1.94	3.5
223	9.92	2.26	3.5	273	7.97	6.52	3.5	323	3.80	2.10	4.5
224	7.57	3.45	2.5	274	12.04	5.32	3.5	324	8.41	5.50	5.5
225	6.30	2.88	2.5	275	14.37	4.97	3.5	325	6.20	4.25	5.5
226	13.66	7.14	4.5	276	7.57	5.39	5.5	326	6.34	3.51	3.5
227	25.46	10.40	3.5	277	7.05	6.09	3.5	327	5.85	4.11	5.5
228	7.42	1.95	4.5	278	9.55	6.22	4.5	328	9.59	5.77	3.5
229	9.08	4.51	4.5	279	16.08	6.35	5.5	329	8.10	3.72	3.5
230	8.15	4.51	3.5	280	6.99	5.90	5.5	330	10.28	4.63	5.5
231	7.72	2.69	3.5	281	9.45	3.76	5.5	331	10.11	7.24	5.5
232	4.21	2.03	2.5	282	5.09	4.04	3.5	332	5.36	3.97	5.5
233	5.39	2.37	3.5	283	8.34	6.49	5.5	333	7.79	3.71	3.5
234	4.35	1.71	3.5	284	10.16	7.78	5.5	334	7.14	4.40	5.5
235	5.75	2.58	3.5	285	8.48	5.19	4.5	335	7.50	3.18	5.5
236	7.91	5.90	3.5	286	9.21	6.34	5.5	336	4.50	3.34	3.5
237	10.10	6.70	4.5	287	12.07	5.25	5.5	337	6.78	4.49	3.5
238	5.53	4.58	3.5	288	9.94	6.09	4.5	338	5.62	4.12	3.5
239	14.44	7.24	5.5	289	10.83	7.59	5.5	339	4.61	2.38	3.5
240	6.81	4.85	4.5	290	12.11	4.43	5.5	340	3.53	3.29	5.5
241	10.04	4.32	3.5	291	11.63	9.06	5.5	341	8.45	5.78	4.5
242	9.25	4.58	5.5	292	6.44	5.98	4.5	342	5.59	3.63	4.5
243	12.41	7.45	5.5	293	8.40	7.15	5.5	343	14.33	7.57	5.5
244	11.72	4.57	5.5	294	8.33	6.47	4.5	344	4.56	1.72	4.5
245	8.62	5.85	4.5	295	4.20	3.67	5.5	345	4.30	2.27	4.5
246	6.37	5.89	5.5	296	10.85	6.12	4.5	346	8.80	3.37	4.5
247	6.22	5.02	3.5	297	6.39	5.10	3.5	347	4.68	1.11	3.5
248	5.17	4.95	3.5	298	4.67	2.94	3.5	348	8.98	5.34	3.5
249	5.55	4.00	5.5	299	9.18	9.08	4.5	349	7.35	5.51	3.5
250	4.77	2.09	4.5	300	13.09	5.97	2.5	350	15.04	5.25	5.5

Misty Cliffs

Clast ID	Length	Width	R	Clast ID	Length	Width	R	Clast ID	Length	Width	R
351	7.35	6.51	5.5	401	8.76	6.43	4.5	451	9.62	5.37	3.5
352	12.50	7.30	4.5	402	11.04	3.39	4.5	452	7.03	5.22	3.5
353	5.98	2.51	2.5	403	6.12	1.71	4.5	453	7.59	4.53	5.5
354	9.91	5.14	3.5	404	7.78	4.00	4.5	454	12.71	8.18	5.5
355	6.35	3.71	3.5	405	15.36	9.40	3.5	455	5.18	4.45	4.5
356	6.67	4.95	3.5	406	5.12	4.34	3.5	456	9.47	7.62	5.5
357	6.97	5.03	4.5	407	9.52	5.64	3.5	457	12.27	11.10	4.5
358	14.35	9.54	4.5	408	21.70	8.93	3.5	458	9.71	5.84	5.5
359	9.23	6.19	4.5	409	6.22	2.63	5.5	459	8.66	5.45	4.5
360	4.81	3.03	3.5	410	3.64	3.39	4.5	460	15.83	11.23	5.5
361	9.37	3.69	3.5	411	5.02	3.01	4.5	461	10.79	4.98	5.5
362	3.99	2.96	2.5	412	5.44	3.20	3.5	462	4.53	3.68	5.5
363	14.71	4.92	5.5	413	6.38	2.56	3.5	463	5.49	4.00	4.5
364	14.15	7.08	5.5	414	6.37	4.99	4.5	464	4.83	2.68	3.5
365	6.59	3.45	2.5	415	10.11	6.68	5.5	465	6.86	3.72	3.5
366	7.75	4.10	2.5	416	2.73	2.45	2.5	466	11.10	5.70	5.5
367	10.97	10.24	5.5	417	6.00	3.77	5.5	467	11.56	6.21	3.5
368	7.32	3.14	3.5	418	7.20	4.13	5.5	468	5.70	3.60	3.5
369	7.67	3.96	2.5	419	12.40	5.39	5.5	469	13.24	8.84	2.5
370	9.74	4.77	3.5	420	6.73	2.57	5.5	470	12.20	7.16	5.5
371	8.51	4.09	3.5	421	14.53	7.69	5.5	471	8.58	2.94	2.5
372	4.33	2.52	3.5	422	18.18	12.65	4.5	472	16.00	6.17	5.5
373	9.62	3.05	5.5	423	8.07	7.87	2.5	473	12.73	4.92	5.5
374	17.37	11.00	5.5	424	11.01	3.69	3.5	474	5.31	4.75	4.5
375	5.02	4.13	4.5	425	14.31	5.92	4.5	475	15.33	14.40	3.5
376	4.43	3.50	4.5	426	10.03	6.05	4.5	476	28.28	27.36	4.5
377	3.00	2.54	2.5	427	14.08	7.30	4.5	477	7.84	7.63	2.5
378	3.18	2.49	5.5	428	15.47	6.98	3.5	478	13.83	8.05	2.5
379	11.87	4.18	4.5	429	8.04	4.64	3.5	479	18.45	14.17	5.5
380	6.93	4.99	4.5	430	7.60	6.34	2.5	480	7.50	3.76	4.5
381	7.56	4.37	5.5	431	7.19	5.70	2.5	481	14.96	5.43	4.5
382	10.15	7.08	4.5	432	14.83	5.07	3.5	482	11.47	4.99	4.5
383	4.27	2.22	3.5	433	24.26	12.82	5.5	483	7.92	7.20	3.5
384	5.28	3.30	4.5	434	7.41	3.90	4.5	484	7.07	5.12	4.5
385	14.94	6.08	4.5	435	23.06	18.77	5.5	485	13.80	8.54	5.5
386	11.76	7.94	3.5	436	21.26	11.39	5.5	486	8.73	8.20	2.5
387	3.82	2.81	4.5	437	8.98	6.71	4.5	487	8.55	3.17	2.5
388	4.93	1.19	3.5	438	15.26	10.41	5.5	488	8.44	4.93	4.5
389	7.29	3.46	4.5	439	6.38	3.82	3.5	489	12.98	11.25	5.5
390	5.57	3.35	5.5	440	4.67	2.05	3.5	490	12.05	7.44	5.5
391	12.24	6.08	5.5	441	5.41	2.46	4.5	491	9.67	6.29	5.5
392	18.88	8.89	5.5	442	7.24	2.75	4.5	492	7.96	5.79	4.5
393	14.16	4.92	5%	443	11.32	6.29	3.5	493	13.24	5.41	4.5
394	9.05	8.46	4.5	444	10.49	5.76	4.5	494	7.43	5.88	5.5
395	10.20	6.31	3.5	445	10.43	7.90	5.5	495	7.28	6.57	4.5
396	8.88	8.86	2.5	446	6.69	6.34	5.5	496	6.30	3.24	4.5
397	12.20	5.59	3.5	447	6.63	5.15	5.5	497	9.48	5.34	5.5
398	5.13	4.89	4.5	448	10.44	8.12	3.5	498	6.07	5.54	4.5
399	6.26	4.96	4.5	449	9.02	4.30	3.5	499	12.10	5.10	3.5
400	7.69	6.06	5.5	450	7.05	5.81	3.5	500	5.26	4.77	3.5

Misty Cliffs

Kogel Bay

Clast ID	Length	Width	R	Clast ID	Length	Width	R	Clast ID	Length	Width	R
501	14.47	9.16	4.5	1)1	100.4	60.74	4.5	51	15.72	4.17	5.5
502	21.12	4.24	4.5	2	7.19	3.46	5.5	52	42.92	23.03	3.5
503	9.04	2.79	3.5	3	7.08	2.81	5.5	53	7.52	6.47	3.5
504	8.79	4.97	3.5	4	14.55	8.23	5.5	54	64.35	25.91	3.5
505	4.83	2.75	4.5	5	29.98	23.89	4.5	55	40.71	8.13	2.5
506	8.29	3.46	4.5	6	26.94	20.75	3.5	56	27.25	21.10	3.5
507	4.10	4.02	5.5	7	22.26	13.93	3.5	57	112.0	66.55	4.5
508	8.00	6.31	5.5	8	4.94	3.59	3.5	58	18.63	9.38	5.5
509	3.44	2.84	3.5	9	6.69	3.78	4.5	59	21.55	14.63	2.5
510	3.48	3.39	3.5	10	7.71	5.09	5.5	60	53.78	19.58	2.5
511	5.93	3.28	5.5	11	5.38	4.19	5.5	61	56.25	49.00	4.5
512	12.84	6.32	5.5	12	27.55	9.72	3.5	62	8.10	4.44	3.5
513	31.68	27.64	4.5	13	8.39	3.37	4.5	63	7.34	6.69	5.5
514	14.34	6.20	2.5	14	39.31	31.91	5.5	64	30.37	26.32	4.5
515	6.37	4.37	4.5	15	180.4	105.50	4.5	65	7.98	6.09	5.5
516	5.60	4.48	4.5	16	6.90	5.93	5.5	66	10.57	9.14	4.5
517	8.55	6.50	3.5	17	36.22	10.91	5.5	67	7.90	6.76	5.5
518	4.75	2.74	3.5	18	78.20	49.90	5.5	68	9.22	3.52	5.5
519	6.90	5.82	3.5	19	17.24	17.09	3.5	69	5.99	5.36	4.5
520	3.31	2.91	3.5	20	12.41	5.24	3.5	70	5.96	2.98	3.5
521	4.25	4.03	3.5	21	5.05	3.49	3.5	71	3.93	3.27	4.5
522	4.97	1.16	4.5	22	22.38	16.96	2.5	72	13.37	8.90	5.5
523	3.36	1.06	4.5	23	4.40	3.77	3.5	73	9.77	5.23	5.5
524	5.27	2.12	4.5	24	5.74	4.29	4.5	74	16.51	4.58	2.5
525	16.92	15.93	3.5	25	4.61	2.78	4.5	75	6.39	3.98	3.5
526	10.03	5.53	2.5	26	4.78	3.56	5.5	76	10.94	7.94	3.5
527	6.01	4.40	3.5	27	23.42	14.10	4.5	77	8.77	3.82	5.5
528	10.06	7.48	3.5	28	5.72	3.16	4.5	78	12.19	4.87	4.5
529	8.42	5.85	3.5	29	10.34	2.60	4.5	79	5.34	2.20	4.5
530	13.24	8.33	5.5	30	83.80	46.82	4.5	80	10.58	5.49	4.5
531	8.21	5.17	4.5	31	15.49	11.89	3.5	81	4.72	2.86	4.5
532	20.93	13.69	4.5	32	48.49	35.40	5.5	82	4.30	3.82	3.5
533	13.01	6.28	4.5	33	52.30	40.74	5.5	83	15.99	10.01	5.5
534	6.21	3.92	4.5	34	13.90	7.01	2.5	84	46.53	30.21	2.5
535	8.01	5.99	3.5	35	5.12	4.80	3.5	85	19.21	15.47	4.5
536	8.72	3.06	3.5	36	5.88	4.28	3.5	86	6.31	3.42	3.5
537	16.60	13.60	3.5	37	7.87	3.70	4.5	87	4.22	1.58	4.5
538	10.09	6.94	3.5	38	8.92	7.37	4.5	88	4.34	3.21	4.5
539	12.92	6.15	5.5	39	7.71	3.34	4.5	89	14.09	7.26	5.5
540	15.54	9.00	4.5	40	8.54	4.63	4.5	90	12.69	9.03	4.5
541	15.29	10.98	3.5	41	4.97	3.75	5.5	91	11.44	4.43	5.5
				42	7.16	4.06	5.5	92	91.03	56.34	5.5
				43	15.02	5.52	4.5	93	14.58	9.04	5.5
				44	7.96	4.61	5.5	94	27.11	25.00	3.5
				45	7.08	3.36	5.5	95	11.85	6.43	2.5
				46	4.36	3.03	5.5	96	8.10	6.77	3.5
				47	4.74	2.88	5.5	97	20.23	12.46	4.5
				48	3.94	3.90	5.5	98	21.60	19.94	4.5
				49	6.77	4.97	4.5	99	89.79	47.12	4.5
				50	11.53	5.15	5.5	100	105.2	71.08	3.5

Kogel Bay

Clast ID	Length	Width	R	Clast ID	Length	Width	R	Clast ID	Length	Width	R
101	95.38	59.04	3.5	151	8.58	5.30	3.5	201	16.75	7.58	3.5
102	9.20	5.49	3.5	152	8.80	7.21	3.5	202	12.62	7.69	5.5
103	11.88	4.16	2.5	153	7.58	4.51	4.5	203	8.42	5.11	4.5
104	7.52	5.45	3.5	154	13.51	5.00	4.5	204	6.56	5.62	4.5
105	8.59	4.65	5.5	155	10.79	7.74	5.5	205	7.24	6.16	5.5
106	22.80	20.54	3.5	156	5.58	5.14	5.5	206	9.69	6.32	5.5
107	57.17	41.43	3.5	157	6.87	3.27	5.5	207	7.00	6.35	4.5
108	11.62	10.32	3.5	158	6.71	4.36	5.5	208	13.18	4.00	5.5
109	11.14	4.39	4.5	159	5.40	4.24	5.5	209	14.79	6.80	3.5
110	14.55	4.91	5.5	160	7.83	3.04	5.5	210	19.01	4.70	5.5
111	15.56	7.54	5.5	161	8.79	6.21	4.5	211	8.93	4.70	4.5
112	7.03	4.84	4.5	162	13.54	3.64	4.5	212	11.50	3.15	4.5
113	5.93	2.90	4.5	163	20.75	15.00	2.5	213	5.48	4.10	4.5
114	22.53	13.29	3.5	164	30.95	19.06	2.5	214	4.97	3.80	3.5
115	5.42	3.47	3.5	165	11.06	7.28	4.5	215	3.61	3.23	4.5
116	7.77	3.30	3.5	166	5.15	4.63	5.5	216	4.31	3.76	3.5
117	64.18	39.29	4.5	167	7.57	3.41	5.5	217	8.42	2.73	3.5
118	7.35	5.27	4.5	168	5.78	2.98	5.5	218	17.96	11.30	3.5
119	14.06	7.29	4.5	169	11.44	2.89	4.5	219	7.40	6.41	3.5
120	20.11	14.99	2.5	170	5.86	5.47	5.5	220	6.96	4.52	5.5
121	12.65	8.05	5.5	171	7.33	4.42	4.5	221	17.53	9.64	4.5
122	27.56	22.62	4.5	172	77.88	45.90	4.5	222	15.52	8.79	4.5
123	14.70	4.94	5.5	173	20.28	8.02	5.5	223	4.25	3.08	5.5
124	7.43	6.26	5.5	174	23.55	17.16	4.5	224	23.69	16.13	3.5
125	7.28	5.25	5.5	175	16.61	14.20	5.5	225	6.31	3.11	4.5
126	11.54	6.05	5.5	176	8.67	6.69	5.5	226	9.71	3.91	4.5
127	8.66	6.50	5.5	177	11.64	10.47	4.5	227	11.74	5.61	5.5
128	6.28	3.60	4.5	178	9.35	4.00	4.5	228	14.95	5.47	4.5
129	82.61	60.46	3.5	179	14.26	5.03	5.5	229	7.02	3.42	3.5
130	9.19	6.81	5.5	180	15.00	5.02	4.5	230	15.00	8.40	4.5
131	6.98	6.33	4.5	181	9.27	6.78	5.5	231	10.12	9.81	5.5
132	9.27	6.16	3.5	182	5.70	3.07	4.5	232	5.02	4.02	4.5
133	16.77	5.68	5.5	183	7.95	4.80	4.5	233	4.84	4.80	3.5
134	7.34	2.38	5.5	184	9.07	4.70	4.5	234	8.74	6.06	3.5
135	11.02	4.32	5.5	185	9.03	4.53	4.5	235	34.10	20.70	4.5
136	13.78	4.72	5.5	186	9.80	9.24	3.5	236	27.51	11.93	4.5
137	12.80	5.39	5.5	187	10.92	3.83	3.5	237	24.27	10.65	3.5
138	85.08	59.57	3.5	188	13.74	11.39	4.5	238	33.41	6.73	3.5
139	14.44	5.90	5.5	189	10.30	3.66	5.5	239	18.11	15.30	5.5
140	15.62	6.94	5.5	190	6.12	3.85	5.5	240	27.60	10.01	5.5
141	5.97	3.82	4.5	191	7.46	6.17	3.5	241	24.60	21.13	5.5
142	6.51	3.59	4.5	192	17.99	7.82	4.5	242	10.66	10.10	2.5
143	8.54	4.86	4.5	193	4.02	3.79	4.5	243	28.73	14.51	5.5
144	7.49	5.07	4.5	194	17.88	8.91	4.5	244	22.45	14.17	3.5
145	7.87	3.21	5.5	195	11.77	3.48	3.5	245	20.53	9.36	5.5
146	7.66	5.03	5.5	196	8.54	5.36	4.5	246	10.22	5.22	5.5
147	9.27	5.86	4.5	197	25.86	9.89	4.5	247	11.67	8.50	5.5
148	8.55	3.46	5.5	198	36.83	21.75	5.5	248	26.23	24.28	2.5
149	8.18	4.12	4.5	199	7.09	5.20	5.5	249	17.19	8.71	2.5
150	8.44	3.02	4.5	200	10.00	9.70	5.5	250	13.45	10.30	2.5

Kogel Bay

Clast ID	Length	Width	R	Clast ID	Length	Width	R	Clast ID	Length	Width	R
251	9.77	5.59	4.5	301	16.77	13.34	4.5	351	10.68	5.33	4.5
252	9.04	7.60	3.5	302	11.82	7.06	4.5	352	67.93	20.78	5.5
253	13.21	9.68	3.5	303	24.55	10.10	4.5	353	21.58	12.72	3.5
254	13.10	8.94	5.5	304	44.05	22.93	5.5	354	11.12	7.56	5.5
255	12.08	8.11	4.5	305	13.99	7.75	4.5	355	8.94	6.36	4.5
256	25.32	16.78	4.5	306	32.69	18.65	4.5	356	7.15	4.98	4.5
257	35.69	17.75	5.5	307	17.99	11.50	5.5	357	12.52	9.82	4.5
258	12.58	5.96	3.5	308	237.74	92.73	3.5	358	7.41	7.10	3.5
259	5.61	4.85	5.5	309	12.25	4.02	4.5	359	23.04	12.18	3.5
260	17.54	10.19	3.5	310	6.86	5.20	4.5	360	7.72	4.17	5.5
261	10.46	5.36	4.5	311	6.64	6.64	3.5	361	7.75	5.13	5.5
262	23.31	13.46	5.5	312	12.68	6.55	4.5	362	12.71	8.70	5.5
263	24.47	10.97	4.5	313	11.45	9.63	4.5	363	9.36	7.12	4.5
264	11.56	8.56	4.5	314	25.86	16.10	3.5	364	17.93	12.92	3.5
265	17.97	6.60	4.5	315	25.32	20.18	4.5	365	8.74	5.66	3.5
266	6.94	6.85	5.5	316	21.86	9.78	4.5	366	11.90	8.29	2.5
267	9.57	6.92	5.5	317	16.07	13.62	4.5	367	22.47	11.20	4.5
268	17.37	9.02	5.5	318	13.72	6.21	5.5	368	17.50	8.44	5.5
269	18.36	9.88	4.5	319	16.65	11.87	3.5	369	8.90	6.16	3.5
270	80.15	47.86	5.5	320	21.84	10.81	3.5	370	17.92	7.54	3.5
271	20.20	7.19	3.5	321	18.47	7.42	3.5	371	12.82	10.71	3.5
272	7.57	6.61	4.5	322	17.78	12.76	4.5	372	13.29	9.70	3.5
273	9.44	7.13	5.5	323	13.97	9.14	4.5	373	9.65	6.08	4.5
274	20.94	13.04	3.5	324	12.80	10.87	4.5	374	8.48	4.95	5.5
275	11.09	9.14	3.5	325	18.15	8.02	4.5	375	6.70	3.92	5.5
276	10.37	6.79	3.5	326	27.60	9.90	2.5	376	7.37	3.29	5.5
277	32.66	22.29	2.5	327	12.13	6.53	4.5	377	15.10	10.89	4.5
278	11.48	6.83	4.5	328	12.48	6.03	5.5	378	7.71	6.66	2.5
279	8.97	8.33	2.5	329	15.22	10.03	4.5	379	78.25	57.81	3.5
280	9.86	5.52	2.5	330	7.27	4.08	3.5	380	31.18	28.08	4.5
281	9.74	5.57	3.5	331	17.79	8.33	3.5	381	9.45	4.23	4.5
282	18.76	8.75	5.5	332	22.87	10.91	4.5	382	12.23	4.95	4.5
283	14.08	7.94	4.5	333	10.07	7.58	5.5	383	16.27	6.84	4.5
284	15.48	11.61	5.5	334	20.61	12.27	5.5	384	18.48	9.61	3.5
285	20.01	8.10	4.5	335	24.73	11.49	2.5	385	20.81	8.37	4.5
286	11.32	7.67	5.5	336	18.68	9.25	2.5	386	8.25	6.91	3.5
287	30.21	23.59	5.5	337	13.02	10.12	2.5	387	6.01	5.25	3.5
288	10.72	8.08	5.5	338	12.96	12.85	2.5	388	6.16	5.66	4.5
289	18.76	6.98	5.5	339	13.04	11.18	5.5	389	10.10	5.48	3.5
290	15.48	4.32	3.5	340	10.69	5.38	5.5	390	12.37	9.39	5.5
291	19.25	6.04	5.5	341	8.71	4.78	4.5	391	5.21	4.86	4.5
292	15.47	5.46	5.5	342	5.17	4.67	5.5	392	9.25	2.46	3.5
293	12.84	8.79	3.5	343	10.84	6.59	4.5	393	12.37	8.89	4.5
294	10.54	8.84	4.5	344	9.06	5.95	4.5	394	10.41	5.67	4.5
295	13.09	11.54	4.5	345	18.68	5.39	5.5	395	6.93	4.82	3.5
296	21.17	8.52	2.5	346	9.55	8.06	5.5	396	7.17	5.04	5.5
297	20.86	14.29	4.5	347	7.73	5.69	5.5	397	13.56	5.94	5.5
298	18.98	7.10	3.5	348	34.67	11.45	5.5	398	5.10	3.40	4.5
299	8.47	5.53	4.5	349	10.84	6.66	4.5	399	10.32	5.70	3.5
300	20.60	7.24	3.5	350	10.42	6.08	4.5	400	7.46	4.59	5.5

Kogel Bay

Clast ID	Length	Width	R	Clast ID	Length	Width	R	Clast ID	Length	Width	R
401	11.20	5.70	3.5	451	7.44	4.43	4.5	501	26.72	10.13	5.5
402	5.55	4.46	5.5	452	17.41	7.38	5.5	502	7.53	4.72	5.5
403	11.00	6.31	4.5	453	10.75	7.72	5.5	503	10.55	7.05	4.5
404	11.36	8.56	5.5	454	9.53	5.93	4.5	504	27.98	26.68	5.5
405	8.14	7.46	2.5	455	11.14	11.05	4.5	505	27.17	15.14	5.5
406	7.13	5.50	5.5	456	21.26	7.81	5.5	506	19.10	14.08	2.5
407	10.43	5.13	3.5	457	10.82	5.10	5.5	507	22.74	9.66	5.5
408	7.81	5.39	3.5	458	8.90	7.39	4.5	508	33.40	17.18	5.5
409	5.63	4.06	4.5	459	6.84	3.61	3.5	509	60.93	45.93	4.5
410	8.16	4.85	5.5	460	7.99	5.02	3.5	510	73.85	56.94	4.5
411	19.40	6.23	3.5	461	11.21	4.06	3.5	511	45.76	36.60	5.5
412	7.99	6.92	5.5	462	8.76	3.90	3.5	512	24.79	14.72	5.5
413	10.97	7.35	5.5	463	7.04	4.26	4.5	513	27.37	19.73	4.5
414	12.69	6.24	5.5	464	27.35	11.03	4.5	514	22.98	17.17	4.5
415	20.31	11.91	3.5	465	20.31	8.07	4.5	515	72.83	31.84	5.5
416	8.72	5.50	5.5	466	7.73	3.46	5.5	516	33.54	19.80	5.5
417	6.29	5.84	5.5	467	14.81	3.55	5.5	517	34.96	19.08	5.5
418	12.43	6.39	4.5	468	15.40	9.46	5.5	2) 1	27.29	19.45	4.5
419	12.25	8.11	5.5	469	10.18	6.43	5.5	2	28.41	18.22	4.5
420	10.01	4.39	4.5	470	10.22	9.23	5.5	3	18.07	11.25	4.5
421	6.62	6.07	4.5	471	8.96	4.66	4.5	4	18.77	11.16	4.5
422	8.66	4.46	4.5	472	19.97	9.88	3.5	5	26.20	17.70	2.5
423	9.99	4.74	4.5	473	13.32	7.90	4.5	6	17.56	9.85	3.5
424	10.10	8.30	5.5	474	10.61	10.13	4.5	7	27.10	14.12	3.5
425	23.40	13.44	4.5	475	15.12	10.15	4.5	8	39.15	28.82	3.5
426	14.29	10.24	5.5	476	7.21	5.56	5.5	9	12.24	8.81	4.5
427	9.85	9.08	4.5	477	11.72	7.26	4.5	10	24.88	14.40	5.5
428	86.37	51.43	4.5	478	8.70	4.65	5.5	11	76.77	59.68	4.5
429	159.80	112.32	3.5	479	9.90	9.61	5.5	12	23.61	13.85	3.5
430	16.55	14.79	3.5	480	37.13	19.87	5.5	13	33.82	20.29	4.5
431	5.58	4.76	3.5	481	18.09	12.16	5.5	14	116.12	65.95	4.5
432	11.41	5.30	3.5	482	34.96	31.28	3.5	15	140.03	56.33	3.5
433	6.24	5.87	3.5	483	31.89	9.98	3.5	16	93.28	53.83	3.5
434	6.66	6.22	5.5	484	73.13	38.93	3.5	17	21.37	9.50	4.5
435	15.68	9.98	5.5	485	14.10	11.37	3.5	18	15.37	7.55	5.5
436	13.70	4.71	3.5	486	17.68	9.93	4.5	19	9.63	6.39	5.5
437	10.40	4.21	3.5	487	19.68	8.91	4.5	20	17.73	8.20	5.5
438	20.15	13.11	4.5	488	21.63	13.12	5.5	21	25.91	14.39	5.5
439	17.12	7.54	5.5	489	45.71	22.76	5.5	22	11.34	6.27	5.5
440	8.68	5.67	4.5	490	31.56	27.44	4.5	23	17.79	5.86	3.5
441	17.10	8.48	3.5	491	23.46	16.52	4.5	24	24.11	11.62	5.5
442	12.54	7.16	5.5	492	41.20	27.87	5.5	25	18.00	5.91	3.5
443	17.24	10.74	3.5	493	15.33	10.29	5.5	26	5.68	4.55	5.5
444	31.23	14.77	4.5	494	42.06	21.25	3.5	27	9.61	7.05	4.5
445	40.19	11.18	3.5	495	54.20	53.92	4.5	28	9.34	6.57	4.5
446	9.09	5.66	3.5	496	8.14	6.12	3.5	29	17.81	9.22	5.5
447	22.48	5.78	3.5	497	11.48	4.82	4.5	30	8.03	7.15	3.5
448	9.08	4.83	5.5	498	10.84	4.40	4.5	31	106.89	41.82	3.5
449	10.00	9.42	2.5	499	15.07	11.92	4.5	32	27.87	13.26	4.5
450	10.64	5.41	4.5	500	16.00	10.67	5.5	33	48.90	34.63	5.5

Kogel Bay

Clast ID	Length	Width	R	Clast ID	Length	Width	R	Clast ID	Length	Width	R
34	50.82	32.00	4.5	84	31.61	24.29	4.5	134	30.52	25.40	4.5
35	56.43	11.63	3.5	85	27.41	11.87	3.5	135	59.54	27.93	4.5
36	18.62	12.61	5.5	86	11.46	7.84	5.5	136	39.72	16.44	4.5
37	23.03	12.58	4.5	87	9.80	7.80	5.5	137	48.04	21.51	4.5
38	29.23	25.63	5.5	88	13.34	8.58	5.5	138	90.35	21.50	4.5
39	37.93	24.14	5.5	89	9.38	6.23	5.5	139	35.16	19.47	5.5
40	7.79	5.92	4.5	90	44.31	24.32	3.5	140	82.92	67.17	4.5
41	17.35	12.48	3.5	91	7.71	8.10	5.5	141	77.18	26.25	5.5
42	19.08	9.30	3.5	92	11.46	7.66	5.5	142	30.89	14.86	5.5
43	22.25	9.75	3.5	93	18.80	13.69	4.5	143	34.96	28.05	4.5
44	9.19	4.99	5.5	94	24.44	17.98	5.5	144	18.08	14.09	5.5
45	11.26	7.38	5.5	95	7.86	6.06	2.5	145	44.94	39.12	3.5
46	9.19	8.21	5.5	96	5.14	3.46	3.5	146	17.84	9.14	2.5
47	10.36	6.78	5.5	97	13.37	4.37	4.5	147	12.86	9.96	3.5
48	9.04	7.92	4.5	98	5.93	4.57	5.5	148	9.28	8.21	5.5
49	30.05	9.97	4.5	99	8.71	8.67	3.5	149	18.82	9.03	4.5
50	11.63	7.88	5.5	100	57.10	32.86	5.5	150	15.31	10.07	3.5
51	9.38	7.73	3.5	101	13.52	8.30	2.5	151	42.60	22.56	4.5
52	13.46	3.88	5.5	102	14.31	9.18	3.5	152	20.89	18.90	5.5
53	13.41	6.29	4.5	103	43.68	26.75	5.5	153	19.85	8.20	3.5
54	178.09	150.43	5.5	104	56.01	38.56	5.5	154	10.59	6.19	5.5
55	97.49	49.43	3.5	105	25.69	21.76	4.5	155	11.82	9.53	2.5
56	24.91	15.96	5.5	106	23.19	12.17	5.5	156	32.01	15.04	5.5
57	16.83	6.91	5.5	107	34.81	17.24	5.5	157	14.09	7.95	2.5
58	19.35	13.40	5.5	108	55.84	37.51	4.5	158	17.66	6.73	2.5
59	32.87	28.82	4.5	109	36.34	24.91	3.5	159	18.19	14.56	3.5
60	60.29	26.72	5.5	110	6.25	4.07	3.5	160	37.11	20.07	3.5
61	20.67	6.86	4.5	111	8.96	5.40	3.5	161	29.00	15.99	5.5
62	8.90	5.90	5.5	112	14.31	12.13	3.5	162	8.91	4.33	5.5
63	7.93	5.11	3.5	113	12.79	4.88	2.5	163	108.59	30.83	3.5
64	14.00	12.73	5.5	114	7.21	4.11	2.5	164	35.42	11.44	4.5
65	9.57	6.91	5.5	115	32.20	12.47	3.5	165	18.75	15.79	4.5
66	11.63	6.79	5.5	116	10.98	3.62	3.5	166	17.18	14.85	4.5
67	12.69	6.63	5.5	117	42.72	21.50	3.5	167	90.14	47.47	3.5
68	17.44	7.05	5.5	118	15.51	9.45	5.5	168	24.61	9.13	4.5
69	11.24	5.32	4.5	119	11.69	9.66	3.5	169	18.17	12.88	3.5
70	8.91	5.37	4.5	120	6.84	5.16	5.5	170	10.91	5.27	5.5
71	7.20	5.10	3.5	121	93.52	62.86	5.5	171	7.19	5.21	5.5
72	15.05	3.53	4.5	122	32.32	13.89	5.5	172	8.05	4.29	4.5
73	15.33	3.63	5.5	123	18.86	11.80	5.5	173	5.92	5.26	4.5
74	8.37	5.90	3.5	124	7.50	6.51	5.5	174	17.45	5.65	5.5
75	13.86	8.46	4.5	125	11.23	4.60	5.5	175	10.96	9.45	3.5
76	7.25	5.91	4.5	126	9.54	5.44	5.5	176	4.65	4.64	4.5
77	7.40	6.79	4.5	127	10.34	7.97	4.5	177	19.65	10.14	5.5
78	8.48	7.00	2.5	128	27.21	17.89	3.5	178	33.94	13.78	5.5
79	12.58	10.43	5.5	129	15.22	10.03	4.5	179	29.52	15.53	5.5
80	13.27	10.34	5.5	130	26.31	16.95	3.5	180	17.73	10.35	3.5
81	16.79	7.84	5.5	131	32.51	31.52	5.5	181	15.03	11.37	3.5
82	15.49	10.11	5.5	132	40.27	18.50	5.5	182	15.60	11.64	3.5
83	16.76	10.85	5.5	133	81.81	36.69	5.5	183	27.60	13.56	2.5

Kogel Bay

Clast ID	Length	Width	R	Clast ID	Length	Width	R	Clast ID	Length	Width	R
184	13.97	12.93	4.5	234	23.00	11.81	3.5	3	83.37	53.26	4.5
185	87.85	84.96	4.5	235	23.00	15.56	3.5	4	23.05	16.97	4.5
186	66.06	16.40	5.5	236	33.00	22.73	4.5	5	10.33	5.20	5.5
187	15.28	11.05	5.5	237	26.00	19.50	3.5	6	11.15	9.87	3.5
188	25.00	18.39	4.5	238	15.00	14.92	3.5	7	10.23	5.96	3.5
189	11.67	6.37	4.5	239	21.00	12.86	5.5	8	11.10	4.24	4.5
190	12.04	6.76	4.5	240	12.00	9.29	3.5	9	22.35	18.98	4.5
191	15.10	12.23	3.5	241	17.00	12.04	3.5	10	111.50	103.16	4.5
192	27.05	15.45	4.5	242	29.00	24.85	2.5	11	36.26	24.54	4.5
193	21.23	12.90	4.5	243	16.00	15.17	4.5	12	34.67	19.57	3.5
194	12.09	7.45	4.5	244	14.00	9.75	4.5	13	21.56	10.12	3.5
195	21.68	10.41	3.5	245	38.00	18.01	3.5	14	15.37	11.09	2.5
196	36.34	33.94	5.5	246	9.00	5.89	3.5	15	11.61	8.82	3.5
197	32.13	27.44	5.5	247	18.00	10.95	2.5	16	20.72	8.89	2.5
198	31.97	21.46	5.5	248	17.00	8.31	3.5	17	13.47	6.62	4.5
199	22.25	20.76	4.5	249	20.00	10.62	3.5	18	32.84	18.18	4.5
200	11.07	8.01	2.5	250	9.00	6.88	3.5	19	12.21	11.64	3.5
201	59.33	49.03	4.5	251	19.00	9.41	3.5	20	34.59	24.62	5.5
202	9.58	9.49	3.5	252	9.00	7.60	3.5	21	29.65	22.42	5.5
203	13.20	12.60	5.5	253	12.00	7.89	3.5	22	39.43	29.84	4.5
204	22.00	20.60	5.5	254	10.00	5.50	5.5	23	25.66	20.03	4.5
205	209.00	140.70	4.5	255	10.00	7.72	4.5	24	21.15	21.00	3.5
206	13.00	8.66	5.5	256	11.00	4.94	4.5	25	12.84	10.51	4.5
207	7.00	3.24	5.5	257	11.00	7.07	2.5	26	12.79	10.02	5.5
208	9.00	7.54	4.5	258	9.00	4.74	3.5	27	27.78	13.84	4.5
209	9.00	6.12	5.5	259	19.00	14.73	4.5	28	15.02	6.13	3.5
210	8.00	3.56	3.5	260	14.00	6.89	5.5	29	14.83	5.74	4.5
211	8.00	4.78	4.5	261	37.00	36.72	5.5	30	16.59	9.09	3.5
212	10.00	7.33	3.5	262	19.00	8.48	4.5	31	14.58	11.41	3.5
213	7.00	4.16	3.5	263	15.00	5.34	4.5	32	22.45	19.08	3.5
214	5.00	2.41	3.5	264	13.00	12.35	3.5	33	23.50	20.73	4.5
215	18.00	12.29	4.5	265	90.00	80.54	4.5	34	58.10	20.25	5.5
216	23.00	13.23	4.5	266	9.00	3.62	3.5	35	122.06	75.71	5.5
217	22.00	14.93	3.5	267	9.00	6.36	3.5	36	14.98	14.67	4.5
218	11.00	6.06	3.5	268	12.00	5.25	3.5	37	12.23	12.23	3.5
219	27.00	10.01	5.5	269	53.00	39.59	5.5	38	19.26	12.44	4.5
220	11.00	5.32	3.5	270	32.00	19.68	5.5	39	50.04	27.51	4.5
221	82.00	53.25	4.5	271	12.00	9.09	4.5	40	31.62	18.87	3.5
222	76.00	68.82	5.5	272	17.00	13.04	5.5	41	55.93	32.92	3.5
223	15.00	10.29	4.5	273	14.00	4.99	5.5	42	26.88	14.97	4.5
224	10.00	5.60	3.5	274	20.00	8.68	3.5	43	279.84	197.13	4.5
225	12.00	9.68	2.5	275	10.00	9.30	3.5	44	43.22	16.02	3.5
226	7.00	3.12	5.5	276	43.00	15.28	3.5	45	44.00	24.20	4.5
227	15.00	7.61	3.5	277	39.00	15.43	3.5	46	25.38	17.55	5.5
228	16.00	6.41	3.5	278	19.00	17.76	3.5	47	28.63	14.69	3.5
229	39.00	23.64	4.5	279	35.00	33.92	5.5	48	31.03	17.60	5.5
230	6.00	4.26	3.5	280	15.00	14.61	5.5	49	19.18	17.09	4.5
231	21.00	6.68	3.5	281	15.00	14.86	4.5	50	48.62	38.36	5.5
232	60.00	33.18	3.5	3) 1	18.87	12.47	4.5	51	41.63	41.49	4.5
233	22.00	9.50	3.5	2	28.66	17.51	5.5	52	76.11	65.32	3.5

Kogel Bay

Clast ID	Length	Width	R	Clast ID	Length	Width	R	Clast ID	Length	Width	R
53	54.46	54.04	4.5	103	61.27	46.69	5.5	153	12.53	8.65	2.5
54	7.55	6.59	5.5	104	78.46	65.53	5.5	154	21.27	7.32	4.5
55	25.99	21.94	5.5	105	12.23	11.89	5.5	155	9.42	6.31	4.5
56	12.36	7.18	5.5	106	49.60	47.73	4.5	156	17.09	8.21	4.5
57	18.08	13.99	3.5	107	11.47	10.10	5.5	157	17.00	10.62	5.5
58	42.68	35.36	4.5	108	12.68	8.56	4.5	158	8.78	5.13	3.5
59	29.85	19.53	3.5	109	56.73	24.04	3.5	159	7.06	4.50	3.5
60	21.80	12.76	3.5	110	10.08	2.65	4.5	160	8.09	5.02	3.5
61	7.98	7.87	4.5	111	9.82	8.23	4.5	161	29.14	16.93	4.5
62	13.40	8.09	4.5	112	26.53	11.14	5.5	162	30.47	14.00	3.5
63	12.86	6.82	3.5	113	31.41	15.73	4.5	163	6.62	5.18	2.5
64	31.40	23.20	5.5	114	9.07	8.70	2.5	164	19.35	14.22	4.5
65	16.81	6.88	4.5	115	12.88	10.67	3.5	165	25.53	13.93	4.5
66	54.72	27.85	4.5	116	9.05	5.13	3.5	166	31.83	21.83	4.5
67	8.82	6.00	4.5	117	6.37	5.18	3.5	4) 1	52.51	34.22	5.5
68	7.70	7.12	5.5	118	10.54	5.39	3.5	2	53.47	46.56	3.5
69	27.58	19.45	3.5	119	16.51	4.65	5.5	3	10.68	5.77	5.5
70	22.73	9.31	4.5	120	8.16	8.02	3.5	4	13.76	13.48	4.5
71	82.86	56.80	4.5	121	27.75	13.29	3.5	5	69.23	59.59	5.5
72	17.16	9.65	3.5	122	14.28	5.93	4.5	6	21.34	16.49	4.5
73	19.46	12.12	5.5	123	21.03	13.65	3.5	7	17.04	15.31	5.5
74	11.46	7.74	5.5	124	9.43	10.10	2.5	8	18.14	9.05	5.5
75	9.60	4.90	5.5	125	16.79	12.20	4.5	9	7.86	5.99	5.5
76	4.60	3.49	5.5	126	10.57	5.37	5.5	10	9.79	5.76	5.5
77	8.85	4.71	5.5	127	5.96	4.61	5.5	11	12.15	6.91	3.5
78	14.43	5.17	5.5	128	5.70	3.66	5.5	12	17.61	7.24	3.5
79	12.25	9.39	3.5	129	9.99	6.20	4.5	13	44.78	44.49	4.5
80	64.28	47.50	4.5	130	8.83	3.82	4.5	14	17.25	14.07	5.5
81	21.94	16.96	3.5	131	9.64	5.44	5.5	15	29.50	24.01	4.5
82	61.42	32.44	3.5	132	15.48	8.94	5.5	16	14.20	7.16	3.5
83	16.48	15.65	4.5	133	20.10	16.80	5.5	17	11.24	5.13	3.5
84	12.62	11.27	5.5	134	12.47	6.42	5.5	18	5.61	5.40	3.5
85	25.12	18.58	4.5	135	20.92	11.90	2.5	19	5.99	4.54	4.5
86	4.52	4.45	4.5	136	18.52	11.24	5.5	20	7.02	3.96	4.5
87	4.27	3.68	3.5	137	8.92	4.59	5.5	21	11.68	3.83	4.5
88	6.79	3.35	3.5	138	18.61	11.73	5.5	22	11.09	5.73	4.5
89	8.53	3.94	3.5	139	156.07	52.98	3.5	23	7.27	5.29	4.5
90	7.89	6.64	3.5	140	22.22	17.69	5.5	24	7.35	5.64	4.5
91	8.98	5.21	3.5	141	25.47	12.73	5.5	25	19.27	12.20	5.5
92	5.26	3.30	4.5	142	17.60	10.06	3.5	26	11.02	6.43	4.5
93	5.40	2.97	3.5	143	7.05	5.77	3.5	27	17.58	8.48	5.5
94	5.75	3.65	4.5	144	9.25	7.30	3.5	28	6.84	3.80	5.5
95	21.40	16.12	4.5	145	6.90	6.24	2.5	29	5.47	4.37	4.5
96	59.12	33.96	2.5	146	10.20	6.98	4.5	30	7.79	4.57	4.5
97	13.53	12.68	3.5	147	8.94	6.34	3.5	31	4.62	4.13	5.5
98	60.14	50.39	2.5	148	13.70	7.32	4.5	32	6.27	4.35	4.5
99	12.43	12.08	3.5	149	7.69	6.71	5.5	33	5.46	3.91	4.5
100	10.22	8.75	5.5	150	8.12	4.79	4.5	34	5.56	3.55	3.5
101	22.85	17.23	5.5	151	18.30	8.85	4.5	35	5.48	2.84	3.5
102	36.67	35.02	4.5	152	26.58	19.26	3.5	36	5.42	4.85	4.5

Kogel Bay

Clast ID	Length	Width	R	Clast ID	Length	Width	R	Clast ID	Length	Width	R
37	6.58	4.06	3.5	87	14.65	10.84	4.5	137	9.27	7.08	5.5
38	8.64	4.52	3.5	88	10.41	8.89	5.5	138	13.36	6.93	4.5
39	11.72	7.32	4.5	89	14.36	7.77	4.5	139	8.01	5.17	3.5
40	9.91	7.87	3.5	90	6.92	4.15	3.5	140	8.08	8.03	4.5
41	11.03	8.52	3.5	91	19.16	6.91	4.5	141	9.55	5.26	5.5
42	10.84	6.33	3.5	92	18.85	6.56	4.5	142	33.20	13.27	5.5
43	7.49	7.17	4.5	93	20.39	15.11	4.5	143	6.73	5.42	3.5
44	7.00	6.24	4.5	94	12.56	6.80	5.5	144	43.71	30.56	5.5
45	9.36	7.97	4.5	95	17.56	8.12	3.5	145	18.06	6.30	5.5
46	15.27	8.25	5.5	96	28.68	16.43	4.5	146	10.66	4.10	4.5
47	17.38	15.05	5.5	97	39.20	21.25	4.5	147	14.37	9.49	4.5
48	12.99	10.33	5.5	98	67.39	77.99	5.5	148	17.13	11.05	5.5
49	29.71	29.54	3.5	99	95.30	84.61	5.5	149	30.11	26.78	3.5
50	86.86	54.92	3.5	100	6.43	2.88	4.5	150	14.50	8.94	4.5
51	24.10	21.09	3.5	101	5.27	5.08	4.5	151	54.22	27.07	5.5
52	12.27	11.10	3.5	102	7.05	2.63	4.5	152	40.58	23.21	5.5
53	15.02	11.33	3.5	103	19.28	15.98	4.5	153	12.07	8.24	5.5
54	35.00	22.44	3.5	104	12.13	11.85	4.5	154	14.02	5.00	5.5
55	12.91	6.27	5.5	105	24.54	23.95	3.5	155	9.85	6.06	5.5
56	12.15	6.75	4.5	106	13.63	7.60	3.5	156	13.45	6.92	5.5
57	30.14	25.92	5.5	107	9.00	8.04	5.5	157	20.67	12.40	5.5
58	9.21	8.48	4.5	108	12.12	7.51	5.5	158	10.34	6.64	5.5
59	5.26	4.66	5.5	109	16.68	9.38	4.5	159	10.00	6.70	3.5
60	16.02	11.53	5.5	110	13.55	12.38	4.5	160	21.39	9.36	4.5
61	8.03	3.50	4.5	111	6.38	6.08	5.5	161	10.12	4.19	4.5
62	15.38	5.13	3.5	112	4.67	3.74	5.5	162	15.51	6.40	5.5
63	31.29	21.04	5.5	113	3.85	3.04	3.5	163	10.51	7.70	5.5
64	7.06	2.91	3.5	114	57.24	52.50	5.5	164	9.29	8.79	5.5
65	4.80	2.88	5.5	115	80.59	74.70	5.5	165	6.33	5.62	5.5
66	9.09	8.02	5.5	116	26.17	16.98	5.5	166	12.76	10.21	4.5
67	8.03	3.15	3.5	117	6.50	3.63	4.5	167	6.45	6.26	5.5
68	19.84	16.91	4.5	118	5.91	3.92	4.5	168	16.80	15.58	5.5
69	26.98	14.36	4.5	119	12.53	9.43	4.5	169	8.70	5.92	5.5
70	7.77	4.66	3.5	120	9.72	6.19	4.5	170	10.57	6.90	4.5
71	9.98	5.51	3.5	121	9.89	5.53	4.5	171	8.13	4.99	4.5
72	11.07	4.07	3.5	122	9.29	8.54	4.5	172	8.87	8.37	4.5
73	17.37	7.39	3.5	123	13.29	9.81	4.5	173	20.86	12.36	5.5
74	51.35	42.58	4.5	124	13.66	6.17	4.5	174	9.89	6.63	5.5
75	22.21	5.50	3.5	125	10.83	8.81	3.5	175	61.33	45.21	4.5
76	7.26	5.63	4.5	126	62.78	24.21	5.5	176	13.53	7.01	5.5
77	9.40	6.41	4.5	127	6.06	4.50	4.5	177	12.30	9.36	5.5
78	7.05	4.65	3.5	128	9.25	3.98	3.5	178	51.63	38.74	5.5
79	5.34	3.60	3.5	129	25.07	11.37	4.5	179	39.79	23.78	5.5
80	10.80	8.25	3.5	130	13.63	7.01	4.5	180	25.80	17.34	3.5
81	21.90	11.10	3.5	131	15.85	6.04	3.5	181	9.41	7.52	5.5
82	4.32	2.49	2.5	132	8.45	8.39	4.5	182	15.26	8.27	3.5
83	10.20	4.81	4.5	133	12.60	6.73	4.5	5) 1	56.52	46.82	4.5
84	9.52	5.87	5.5	134	11.09	10.79	2.5	2	33.74	16.74	4.5
85	25.04	7.06	4.5	135	18.09	8.92	3.5	3	21.65	10.47	5.5
86	11.65	6.27	3.5	136	12.12	10.53	5.5	4	15.04	3.68	3.5

Kogel Bay

Clast ID	Length	Width	R	Clast ID	Length	Width	R	Clast ID	Length	Width	R
5	13.41	7.62	3.5	55	6.35	4.49	5.5	105	16.99	16.25	3.5
6	5.48	4.31	3.5	56	17.37	8.72	5.5	106	11.23	6.42	4.5
7	6.91	6.28	3.5	57	13.68	7.62	4.5	107	5.58	3.42	5.5
8	13.69	10.13	4.5	58	58.11	48.94	4.5	108	4.56	4.03	4.5
9	7.53	6.30	4.5	59	20.82	9.05	5.5	109	20.76	16.17	5.5
10	60.49	16.87	3.5	60	8.38	5.84	5.5	110	10.93	8.70	4.5
11	3.99	3.49	4.5	61	10.20	5.56	5.5	111	15.10	5.38	4.5
12	5.15	5.02	4.5	62	10.72	4.80	5.5	112	18.06	5.39	5.5
13	8.60	6.55	4.5	63	46.45	34.35	4.5	113	18.44	14.86	5.5
14	4.80	2.81	4.5	64	6.88	3.90	4.5	114	14.02	7.11	5.5
15	6.33	3.12	4.5	65	12.58	6.88	5.5	115	7.02	6.44	3.5
16	6.76	4.34	3.5	66	13.00	8.84	5.5	116	15.65	13.01	3.5
17	3.95	3.01	3.5	67	13.42	5.83	4.5	117	24.42	16.75	3.5
18	10.95	5.22	3.5	68	10.09	5.20	3.5	118	56.91	50.87	4.5
19	7.11	3.28	2.5	69	14.32	10.52	5.5	119	11.55	9.83	4.5
20	10.87	8.31	2.5	70	9.94	6.51	4.5	120	33.67	19.47	4.5
21	10.02	5.52	4.5	71	8.63	5.43	3.5	121	11.56	8.47	5.5
22	19.29	6.90	4.5	72	8.88	4.34	4.5	122	12.25	6.98	4.5
23	11.05	7.59	4.5	73	12.46	10.77	4.5	123	33.81	21.93	2.5
24	8.38	4.45	4.5	74	10.31	6.90	4.5	124	13.65	8.37	5.5
25	6.28	5.62	4.5	75	12.10	8.00	5.5	125	5.74	4.60	5.5
26	5.68	4.87	4.5	76	19.65	7.84	2.5	126	9.11	6.45	4.5
27	13.47	8.32	3.5	77	27.70	13.25	3.5	127	7.63	7.05	4.5
28	15.71	10.57	3.5	78	11.61	5.16	4.5	128	9.74	8.43	3.5
29	13.86	9.21	4.5	79	8.65	4.57	3.5	129	13.37	6.03	4.5
30	8.63	4.89	4.5	80	6.54	4.08	3.5	130	5.12	3.49	4.5
31	6.15	3.25	4.5	81	15.80	5.96	3.5	131	19.16	14.11	3.5
32	8.06	2.49	5.5	82	14.20	8.44	4.5	132	17.33	9.09	3.5
33	9.80	3.91	5.5	83	10.50	6.02	5.5	133	13.86	4.87	3.5
34	13.08	4.14	5.5	84	9.81	7.49	4.5	134	25.54	23.71	4.5
35	5.98	2.64	4.5	85	15.29	6.42	4.5	135	25.25	8.46	4.5
36	7.77	3.64	4.5	86	11.18	9.13	3.5	136	43.26	14.98	5.5
37	11.25	8.99	3.5	87	12.23	6.80	3.5	137	10.02	7.79	3.5
38	7.97	7.82	4.5	88	20.47	8.47	3.5	138	80.87	51.83	3.5
39	16.77	18.18	4.5	89	12.84	8.10	3.5	139	8.39	5.86	5.5
40	9.59	7.42	4.5	90	13.56	10.40	4.5	140	7.06	6.56	5.5
41	56.93	34.79	4.5	91	22.37	13.11	3.5	141	13.22	3.22	4.5
42	10.37	6.67	5.5	92	9.60	7.58	3.5	142	18.32	8.58	5.5
43	59.47	40.42	5.5	93	57.99	32.58	4.5	143	12.12	10.92	5.5
44	31.03	14.46	5.5	94	13.33	11.03	3.5	144	14.05	8.86	5.5
45	53.51	51.36	3.5	95	15.34	14.23	4.5	145	5.45	4.57	4.5
46	14.63	6.12	4.5	96	6.27	5.59	3.5	146	7.58	4.76	5.5
47	23.38	20.81	5.5	97	22.98	11.26	3.5	147	9.11	4.18	3.5
48	106.82	59.05	3.5	98	9.61	6.74	3.5	148	12.65	9.19	5.5
49	15.02	7.50	5.5	99	16.17	12.48	4.5	149	13.17	8.92	5.5
50	8.39	7.77	3.5	100	20.54	13.95	4.5	150	19.27	10.42	3.5
51	15.34	7.94	4.5	101	7.43	5.27	5.5	151	12.55	6.89	4.5
52	22.54	16.27	5.5	102	30.35	21.29	5.5	152	12.14	9.73	5.5
53	10.91	5.30	3.5	103	22.88	22.37	3.5	153	8.25	6.50	5.5
54	10.50	5.81	5.5	104	9.43	7.96	3.5	154	21.72	14.69	5.5

Kogel Bay

Clast ID	Length	Width	R	Clast ID	Length	Width	R	Clast ID	Length	Width	R
155	16.87	15.57	5.5	45	3.23	1.80	5.5	95	24.11	23.83	4.5
156	24.36	13.72	4.5	46	6.99	4.39	5.5	96	5.79	5.57	4.5
157	11.51	5.94	3.5	47	10.22	4.86	3.5	97	6.11	5.35	5.5
158	9.33	5.31	3.5	48	8.99	4.34	3.5	98	7.17	4.85	5.5
159	37.36	33.14	5.5	49	14.48	6.62	3.5	99	15.26	13.81	5.5
160	25.63	10.22	4.5	50	3.82	1.52	5.5	100	21.05	7.05	3.5
6) 1	10.58	5.24	5.5	51	6.29	6.05	3.5	101	7.55	4.42	3.5
2	7.43	5.23	4.5	52	9.87	8.16	3.5	102	7.49	2.94	5.5
3	5.51	4.70	3.5	53	16.15	8.64	3.5	103	9.59	8.80	5.5
4	4.94	3.18	5.5	54	5.60	3.67	4.5	104	8.82	5.05	5.5
5	4.97	3.90	5.5	55	21.06	12.74	5.5	105	8.43	3.87	4.5
6	9.39	7.06	3.5	56	18.21	16.36	5.5	106	70.28	46.79	5.5
7	108.85	74.63	3.5	57	6.27	3.68	4.5	107	21.54	19.24	5.5
8	16.49	12.36	5.5	58	10.86	6.33	3.5	108	9.48	8.66	4.5
9	7.48	7.44	5.5	59	11.54	6.79	3.5	109	11.29	7.02	3.5
10	10.19	6.68	5.5	60	9.26	4.47	3.5	110	12.79	5.21	4.5
11	14.51	12.22	4.5	61	4.97	4.14	2.5	111	45.10	24.65	3.5
12	7.22	4.47	5.5	62	45.31	32.81	5.5	112	14.78	4.92	5.5
13	14.61	9.35	5.5	63	4.61	3.40	4.5	113	23.99	10.65	5.5
14	85.02	39.02	3.5	64	6.19	3.31	3.5	114	17.45	15.74	5.5
15	5.78	3.91	5.5	65	4.83	3.59	3.5	115	28.37	20.09	2.5
16	7.13	4.05	5.5	66	5.10	4.44	4.5	116	49.06	28.10	4.5
17	50.66	27.76	4.5	67	5.26	1.53	5.5	117	19.08	12.95	3.5
18	15.22	12.45	4.5	68	7.45	4.56	5.5	118	11.63	9.58	5.5
19	56.80	34.95	5.5	69	6.85	5.98	3.5	119	7.98	7.26	5.5
20	7.53	7.14	3.5	70	4.63	4.18	4.5	120	19.44	7.44	5.5
21	6.78	5.22	3.5	71	10.19	6.54	5.5	121	13.79	6.75	5.5
22	17.02	11.81	3.5	72	6.16	2.69	4.5	122	14.45	8.63	3.5
23	8.18	4.80	5.5	73	4.99	3.12	5.5	123	11.60	8.92	4.5
24	11.53	11.33	5.5	74	7.24	3.39	4.5	124	11.95	9.55	5.5
25	12.67	11.78	4.5	75	11.94	8.83	4.5	125	16.56	8.53	4.5
26	22.67	18.02	5.5	76	17.07	9.77	3.5	126	29.86	13.09	5.5
27	7.48	4.28	3.5	77	9.25	7.78	5.5	127	9.37	5.61	5.5
28	5.61	3.60	5.5	78	8.54	7.27	5.5	128	31.64	11.36	5.5
29	11.74	3.59	5.5	79	8.17	7.51	5.5	129	61.01	52.61	5.5
30	18.81	12.62	5.5	80	6.05	1.78	4.5	130	7.03	5.20	2.5
31	5.67	4.14	4.5	81	8.20	5.36	3.5	131	28.80	12.53	5.5
32	34.93	25.71	4.5	82	8.14	6.88	4.5	132	12.11	5.34	5.5
33	4.48	1.33	2.5	83	10.50	3.70	4.5	133	9.69	7.55	3.5
34	6.47	4.10	4.5	84	10.07	7.09	5.5	134	10.15	5.30	5.5
35	8.82	3.89	5.5	85	4.98	4.25	5.5	135	23.13	11.70	5.5
36	4.92	4.57	5.5	86	8.02	4.05	3.5	136	17.17	12.14	4.5
37	7.23	4.38	4.5	87	5.87	2.56	4.5	137	28.71	26.70	3.5
38	6.36	5.11	2.5	88	10.79	5.06	4.5	138	9.10	7.75	5.5
39	10.71	8.83	3.5	89	17.00	8.70	3.5	139	8.81	6.92	4.5
40	7.31	4.30	3.5	90	6.51	5.19	3.5	140	23.37	11.41	5.5
41	29.81	26.40	5.5	91	9.55	7.28	3.5	141	11.33	7.45	5.5
42	6.81	3.72	5.5	92	7.43	4.41	4.5	142	9.87	9.34	5.5
43	4.69	2.58	4.5	93	4.46	3.03	3.5	143	14.13	4.80	5.5
44	10.22	4.38	5.5	94	6.13	4.12	5.5	144	13.12	12.89	5.5

Kogel Bay

Clast ID	Length	Width	R	Clast ID	Length	Width	R	Clast ID	Length	Width	R
145	22.72	8.32	5.5	29	13.32	6.46	4.5	79	8.10	4.16	4.5
146	43.68	15.26	5.5	30	13.26	7.60	4.5	80	16.12	5.57	3.5
147	28.66	15.84	5.5	31	12.80	8.16	5.5	81	11.59	5.52	5.5
148	16.88	13.93	4.5	32	12.29	10.03	5.5	82	17.49	12.39	4.5
149	34.02	19.49	4.5	33	11.24	6.42	5.5	83	5.94	4.06	5.5
150	25.92	9.16	5.5	34	20.76	12.72	5.5	84	7.38	5.41	4.5
151	48.33	27.03	5.5	35	7.57	4.64	4.5	85	9.87	5.93	4.5
152	50.24	34.36	4.5	36	21.63	9.86	5.5	86	10.93	7.58	5.5
153	7.71	7.57	5.5	37	4.84	4.10	4.5	87	8.16	6.61	4.5
154	16.52	9.57	5.5	38	6.53	5.29	4.5	88	8.25	6.30	3.5
155	11.63	8.10	4.5	39	7.68	5.40	4.5	89	8.12	6.70	4.5
156	14.96	7.51	4.5	40	8.94	2.89	5.5	90	7.59	4.60	3.5
157	12.06	2.85	5.5	41	14.53	10.23	3.5	91	7.81	7.00	3.5
158	25.74	13.03	5.5	42	8.86	7.05	5.5	92	6.10	5.28	4.5
159	10.74	5.73	3.5	43	9.45	6.01	5.5	93	9.32	6.08	4.5
160	22.54	21.60	4.5	44	6.09	5.14	5.5	94	10.85	8.74	4.5
161	23.42	17.65	4.5	45	8.12	7.37	5.5	95	14.08	5.46	4.5
162	28.31	21.77	5.5	46	8.49	5.06	4.5	96	16.08	9.49	5.5
163	14.40	5.95	5.5	47	6.52	5.20	3.5	97	9.74	7.21	5.5
164	16.77	7.57	4.5	48	10.47	10.31	3.5	98	13.15	4.78	5.5
165	15.73	9.14	4.5	49	8.86	3.21	4.5	99	12.92	12.73	3.5
166	15.77	11.55	3.5	50	6.62	4.70	3.5	100	20.22	18.81	3.5
7) 1	27.61	20.75	5.5	51	16.37	12.39	3.5	101	8.81	5.95	3.5
2	21.08	18.06	3.5	52	13.98	8.92	5.5	102	19.85	15.86	4.5
3	14.02	11.63	5.5	53	23.31	18.17	5.5	103	9.37	7.88	4.5
4	23.48	14.73	5.5	54	18.50	17.46	5.5	104	15.00	14.94	4.5
5	27.61	15.74	4.5	55	9.58	8.91	5.5	105	11.48	6.98	4.5
6	13.63	11.25	3.5	56	12.62	10.43	4.5	106	20.80	9.30	5.5
7	22.16	16.07	4.5	57	15.41	11.45	5.5	107	23.06	15.04	5.5
8	55.38	31.48	5.5	58	16.70	8.76	4.5	108	12.99	6.46	4.5
9	23.63	15.19	3.5	59	14.75	13.24	5.5	109	11.58	8.14	3.5
10	29.38	26.42	5.5	60	8.23	5.32	5.5	110	11.54	9.50	4.5
11	20.17	9.79	3.5	61	12.42	9.90	3.5	111	11.98	7.95	4.5
12	24.33	5.84	4.5	62	13.08	9.28	5.5	112	13.76	4.91	3.5
13	24.46	12.92	2.5	63	11.45	6.80	5.5	113	21.67	15.48	3.5
14	29.86	21.46	3.5	64	11.30	6.19	3.5	114	20.95	14.68	3.5
15	18.50	9.02	4.5	65	14.22	8.00	3.5	115	33.75	21.27	5.5
16	22.59	9.60	5.5	66	8.67	4.78	5.5	116	9.72	8.75	4.5
17	19.38	6.07	4.5	67	11.38	6.32	3.5	117	12.53	7.32	5.5
18	11.63	7.39	5.5	68	12.35	7.56	3.5	118	18.36	15.84	4.5
19	10.96	8.22	5.5	69	59.67	54.15	5.5	119	19.47	15.19	3.5
20	9.72	6.09	5.5	70	46.23	36.03	5.5	120	11.38	8.36	3.5
21	20.09	12.18	5.5	71	20.76	13.44	5.5	121	19.12	12.49	5.5
22	14.88	9.00	5.5	72	11.34	7.85	3.5	122	11.66	6.12	5.5
23	12.33	11.16	3.5	73	9.07	8.91	5.5	123	30.18	25.48	2.5
24	14.92	9.98	3.5	74	90.54	75.22	5.5	124	11.98	9.46	2.5
25	13.70	7.05	4.5	75	52.47	35.18	4.5	125	20.68	17.44	5.5
26	10.40	5.56	5.5	76	18.50	10.50	5.5	126	69.37	57.14	5.5
27	11.20	10.15	5.5	77	21.01	11.92	5.5	127	9.08	5.44	5.5
28	18.01	6.46	5.5	78	11.01	9.91	4.5	128	13.45	7.82	3.5

Kogel Bay

Clast ID	Length	Width	R	Clast ID	Length	Width	R	Clast ID	Length	Width	R
129	14.28	9.51	3.5	179	25.90	15.97	3.5	229	4.73	4.52	4.5
130	11.57	4.36	5.5	180	33.16	19.57	3.5	230	9.84	4.15	4.5
131	7.99	4.47	3.5	181	21.55	9.45	4.5	231	6.47	4.86	4.5
132	10.49	6.55	5.5	182	18.14	8.96	5.5	232	17.59	6.25	4.5
133	11.15	10.73	5.5	183	11.23	10.06	4.5	233	103.08	57.03	3.5
134	10.17	4.34	5.5	184	8.24	5.81	4.5	234	15.96	11.87	5.5
135	11.79	11.16	4.5	185	89.67	55.22	5.5	235	25.81	9.69	4.5
136	23.17	13.37	5.5	186	22.29	13.22	3.5	236	12.06	5.02	5.5
137	10.30	8.56	5.5	187	19.65	7.72	4.5	8) 1	10.78	5.06	5.5
138	12.10	7.19	4.5	188	48.61	29.91	5.5	2	23.36	21.81	5.5
139	7.76	4.75	5.5	189	15.87	9.75	5.5	3	11.88	8.05	5.5
140	15.03	9.13	3.5	190	21.15	10.37	4.5	4	80.58	48.11	4.5
141	11.25	7.69	4.5	191	5.96	3.55	5.5	5	10.13	8.58	5.5
142	24.37	17.62	4.5	192	16.19	9.66	5.5	6	13.12	8.77	4.5
143	23.07	22.10	5.5	193	7.48	5.52	3.5	7	7.14	6.27	5.5
144	21.65	17.34	5.5	194	7.64	5.65	3.5	8	9.68	5.29	5.5
145	30.87	16.88	5.5	195	8.52	5.21	4.5	9	15.03	6.87	5.5
146	12.03	5.71	4.5	196	10.07	8.05	5.5	10	12.10	7.33	5.5
147	8.35	5.28	4.5	197	6.96	4.14	3.5	11	7.02	3.78	4.5
148	10.87	9.38	3.5	198	6.39	3.31	4.5	12	10.78	6.56	4.5
149	15.85	12.48	4.5	199	6.51	6.35	4.5	13	72.06	27.82	5.5
150	19.81	17.18	5.5	200	10.39	5.95	5.5	14	29.37	16.71	3.5
151	17.77	12.35	3.5	201	19.65	6.14	5.5	15	9.36	4.49	5.5
152	291.02	139.26	5.5	202	19.73	11.68	5.5	16	22.89	21.29	4.5
153	38.03	28.73	3.5	203	16.31	7.95	5.5	17	8.02	5.24	5.5
154	15.30	10.22	5.5	204	9.21	9.05	5.5	18	6.81	6.70	5.5
155	23.70	19.87	5.5	205	6.24	4.40	4.5	19	69.45	28.07	4.5
156	15.01	12.50	5.5	206	10.14	4.16	5.5	20	14.17	6.81	5.5
157	11.66	10.98	5.5	207	6.92	4.33	5.5	21	20.15	9.09	3.5
158	24.54	21.43	3.5	208	11.67	13.77	3.5	22	23.15	13.07	5.5
159	48.47	21.37	4.5	209	10.49	6.55	2.5	23	50.60	26.67	3.5
160	26.52	19.33	4.5	210	10.50	5.32	4.5	24	13.42	7.37	5.5
161	14.86	12.16	4.5	211	10.30	5.80	3.5	25	7.11	4.31	3.5
162	31.46	10.45	5.5	212	17.92	8.80	5.5	26	15.14	9.73	4.5
163	10.35	9.06	4.5	213	6.86	5.64	5.5	27	19.08	5.60	5.5
164	10.39	7.45	5.5	214	9.09	5.14	5.5	28	5.60	4.30	3.5
165	13.53	6.35	5.5	215	10.19	7.26	4.5	29	15.75	6.99	4.5
166	25.14	11.16	5.5	216	13.63	7.35	3.5	30	33.06	31.26	5.5
167	36.23	21.40	5.5	217	12.00	11.01	5.5	31	9.82	5.81	4.5
168	26.76	23.16	5.5	218	7.89	5.61	4.5	32	7.94	3.73	5.5
169	15.16	8.88	5.5	219	8.19	3.40	5.5	33	19.59	14.85	4.5
170	11.23	11.11	5.5	220	6.39	5.37	4.5	34	13.16	8.02	2.5
171	12.02	8.47	4.5	221	7.64	4.88	5.5	35	20.86	9.40	5.5
172	16.47	12.52	5.5	222	6.30	6.16	5.5	36	14.71	7.29	5.5
173	25.73	19.96	5.5	223	8.28	3.20	5.5	37	20.05	15.24	5.5
174	24.94	22.96	5.5	224	8.14	5.34	5.5	38	6.31	4.31	5.5
175	11.50	6.25	5.5	225	6.38	5.15	5.5	39	5.64	4.93	5.5
176	12.49	10.16	5.5	226	11.20	5.53	5.5	40	12.02	4.92	5.5
177	18.02	12.96	5.5	227	10.26	4.44	5.5	41	5.23	5.15	5.5
178	13.74	7.03	5.5	228	5.81	3.80	4.5	42	7.60	5.58	5.5

Kogel Bay

Clast ID	Length	Width	R	Clast ID	Length	Width	R	Clast ID	Length	Width	R
43	4.59	4.19	3.5	93	6.88	5.73	5.5	143	38.52	30.91	5.5
44	11.03	9.77	5.5	94	6.02	4.59	3.5	144	12.16	7.18	5.5
45	83.82	53.80	5.5	95	10.32	8.52	4.5	145	13.46	12.02	5.5
46	9.32	3.86	3.5	96	10.37	8.44	5.5	146	9.91	7.88	4.5
47	8.71	3.85	5.5	97	6.15	3.30	3.5	147	14.50	10.72	3.5
48	17.69	13.11	5.5	98	7.40	4.05	3.5	148	7.68	7.57	3.5
49	6.17	4.52	3.5	99	4.98	4.92	4.5	149	16.81	14.29	3.5
50	8.86	4.65	5.5	100	4.55	3.77	5.5	150	10.70	7.74	5.5
51	17.37	8.83	5.5	101	5.50	4.23	5.5	151	19.13	14.00	3.5
52	16.68	6.80	4.5	102	27.97	15.56	5.5	152	12.16	6.86	5.5
53	21.23	11.72	5.5	103	15.28	7.93	3.5	153	13.31	6.24	2.5
54	10.46	6.33	3.5	104	13.78	9.78	5.5	154	9.56	3.91	4.5
55	9.57	4.78	4.5	105	8.00	5.65	5.5	155	8.69	7.62	4.5
56	7.38	6.30	5.5	106	6.82	5.24	4.5	156	13.62	11.32	5.5
57	10.81	4.01	4.5	107	11.45	7.84	3.5	157	18.11	8.40	5.5
58	13.07	5.47	5.5	108	4.64	4.67	3.5	158	19.36	12.44	4.5
59	14.45	8.41	5.5	109	4.80	3.72	3.5	159	7.29	5.46	4.5
60	10.00	6.78	5.5	110	9.13	6.68	3.5	160	13.77	6.53	4.5
61	8.81	4.30	3.5	111	8.31	7.75	3.5	161	13.29	10.68	5.5
62	9.71	9.21	5.5	112	12.80	10.11	3.5	162	24.16	14.23	4.5
63	23.07	13.76	3.5	113	13.78	7.29	4.5	163	21.37	6.33	3.5
64	11.34	6.44	3.5	114	67.09	38.94	5.5	164	6.83	6.09	3.5
65	10.99	9.30	4.5	115	16.23	11.95	5.5	165	17.38	13.63	3.5
66	7.72	6.72	4.5	116	7.12	5.63	3.5	166	10.30	9.46	4.5
67	8.46	4.13	3.5	117	7.29	3.26	4.5	167	30.80	29.56	5.5
68	5.16	4.95	4.5	118	10.49	3.23	4.5	168	18.77	10.33	4.5
69	32.91	17.43	5.5	119	10.80	6.52	3.5	169	11.38	5.24	5.5
70	48.89	28.78	4.5	120	7.81	3.03	2.5	170	42.92	42.89	4.5
71	40.59	21.06	5.5	121	9.82	4.09	3.5	171	14.08	6.41	5.5
72	49.53	32.47	3.5	122	9.71	3.60	3.5	172	9.49	5.67	5.5
73	11.69	8.09	5.5	123	12.36	3.73	3.5	173	9.90	8.17	3.5
74	22.04	17.66	5.5	124	8.43	5.23	4.5	174	11.39	10.41	4.5
75	16.90	9.65	3.5	125	9.92	4.32	5.5	175	18.06	6.19	5.5
76	7.57	4.14	5.5	126	4.94	4.12	3.5	176	18.63	10.26	4.5
77	12.15	10.76	5.5	127	4.60	3.24	3.5	177	11.25	10.11	4.5
78	5.86	3.70	4.5	128	5.81	3.60	3.5	178	22.36	11.32	5.5
79	7.84	2.64	3.5	129	7.04	6.87	3.5	179	18.71	16.55	3.5
80	4.69	2.86	5.5	130	17.87	10.38	4.5	180	58.52	31.00	4.5
81	10.00	7.49	3.5	131	6.45	4.27	4.5	181	99.22	82.26	5.5
82	7.87	1.71	4.5	132	5.31	3.35	5.5	182	7.16	6.00	5.5
83	7.18	3.18	4.5	133	35.57	20.24	5.5	183	7.21	7.00	5.5
84	5.29	2.23	4.5	134	4.26	3.40	3.5	184	10.22	4.18	5.5
85	22.47	13.13	4.5	135	11.56	6.46	3.5	185	13.96	6.67	5.5
86	6.56	4.09	4.5	136	7.94	5.80	4.5	186	39.68	22.19	4.5
87	4.23	3.50	3.5	137	8.35	5.18	3.5	187	33.00	30.99	5.5
88	6.90	3.08	3.5	138	40.66	31.19	3.5	9) 1	93.72	64.41	3.5
89	6.46	2.98	3.5	139	17.97	16.80	4.5	2	13.24	11.65	4.5
90	31.02	26.58	3.5	140	9.14	5.81	4.5	3	11.08	4.92	5.5
91	17.33	12.62	5.5	141	11.16	7.58	5.5	4	11.43	9.32	5.5
92	8.94	3.38	3.5	142	9.11	5.57	3.5	5	12.02	6.91	4.5

Kogel Bay

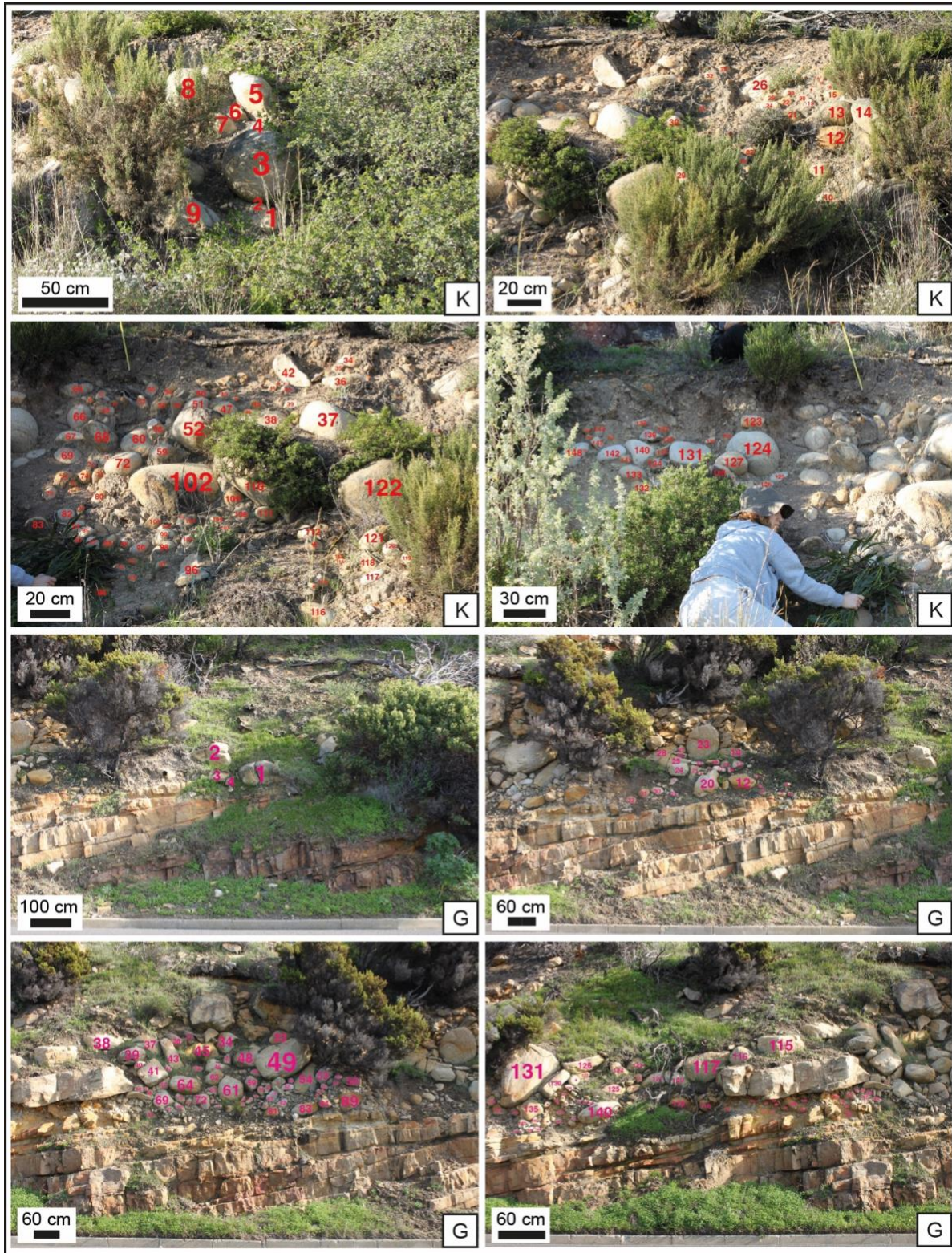
Clast ID	Length	Width	R	Clast ID	Length	Width	R	Clast ID	Length	Width	R
6	7.60	5.99	4.5	56	25.30	14.10	5.5	106	15.02	6.66	5.5
7	5.80	3.21	3.5	57	25.41	8.04	5.5	107	11.52	8.29	4.5
8	8.33	7.99	3.5	58	37.61	25.12	4.5	10) 1	104.69	48.37	3.5
9	9.10	5.17	4.5	59	25.16	14.68	4.5	2	43.00	31.55	3.5
10	15.19	4.27	5.5	60	25.74	24.55	5.5	3	17.69	12.97	5.5
11	5.41	2.70	5.5	61	26.25	21.48	5.5	4	14.86	12.87	5.5
12	4.60	3.91	4.5	62	47.79	41.29	3.5	5	16.70	12.43	5.5
13	7.64	4.55	3.5	63	22.56	8.45	5.5	6	22.14	17.31	3.5
14	7.62	5.49	3.5	64	17.61	14.46	5.5	7	15.80	12.74	5.5
15	13.01	7.29	5.5	65	25.80	16.48	3.5	8	34.04	17.04	5.5
16	4.12	2.57	4.5	66	47.21	43.10	3.5	9	25.03	23.68	4.5
17	21.83	12.12	5.5	67	22.87	17.26	3.5	10	8.44	8.02	5.5
18	21.92	22.44	4.5	68	28.11	17.13	5.5	11	11.69	6.95	3.5
19	96.81	98.47	4.5	69	24.20	15.21	5.5	12	18.66	14.46	5.5
20	21.67	8.02	5.5	70	35.96	23.59	5.5	13	14.89	10.10	5.5
21	9.89	6.95	3.5	71	14.82	11.64	5.5	14	41.39	17.96	5.5
22	16.14	13.37	4.5	72	21.07	20.29	4.5	15	39.41	32.69	5.5
23	18.22	9.93	5.5	73	14.33	11.66	5.5	16	10.57	6.83	5.5
24	13.12	5.53	5.5	74	20.37	7.62	5.5	17	7.42	3.82	5.5
25	12.15	6.45	5.5	75	24.48	20.31	5.5	18	7.07	6.00	5.5
26	169.24	96.57	5.5	76	20.05	13.86	4.5	19	7.90	4.00	5.5
27	34.46	27.81	5.5	77	59.94	40.36	5.5	20	7.30	5.30	4.5
28	16.30	9.74	5.5	78	35.69	24.67	5.5	21	12.27	8.00	4.5
29	12.98	8.88	5.5	79	29.32	11.59	5.5	22	10.70	7.00	5.5
30	29.43	22.57	4.5	80	19.38	7.04	5.5	23	7.73	5.00	4.5
31	18.31	10.99	3.5	81	79.49	57.86	5.5	24	7.96	7.00	3.5
32	19.22	8.39	5.5	82	28.82	14.61	5.5	25	9.85	5.00	5.5
33	21.07	11.54	4.5	83	29.21	16.26	5.5	26	8.18	4.00	4.5
34	15.47	5.91	4.5	84	21.42	17.91	4.5	27	18.53	8.00	4.5
35	91.35	62.88	4.5	85	36.54	21.30	4.5	28	5.83	4.00	5.5
36	25.63	15.95	4.5	86	21.35	11.90	3.5	29	11.20	6.00	3.5
37	22.77	19.34	5.5	87	21.60	13.39	4.5	30	20.58	10.00	3.5
38	26.89	19.65	5.5	88	19.93	16.35	5.5	31	21.17	11.00	5.5
39	9.85	6.51	5.5	89	27.69	23.01	3.5	32	180.30	143.00	4.5
40	8.41	7.37	5.5	90	28.86	16.65	5.5	33	35.89	9.00	5.5
41	13.19	10.05	5.5	91	18.95	11.27	3.5	34	22.24	7.00	4.5
42	10.61	6.47	5.5	92	27.42	16.91	5.5	35	20.43	8.00	4.5
43	26.06	17.08	5.5	93	9.37	5.74	5.5	36	16.95	9.60	3.5
44	37.94	12.28	5.5	94	9.82	9.69	5.5	37	14.99	14.00	3.5
45	23.26	16.11	3.5	95	16.38	7.61	5.5	38	14.69	7.00	3.5
46	10.45	10.50	4.5	96	11.67	6.42	4.5	39	11.42	6.00	5.5
47	11.11	7.24	4.5	97	22.39	14.71	4.5	40	12.62	10.00	4.5
48	10.24	8.87	5.5	98	11.17	6.98	5.5	41	35.67	18.00	4.5
49	15.34	14.60	5.5	99	17.12	9.39	5.5	42	13.78	6.00	3.5
50	22.96	11.27	4.5	100	7.83	5.60	5.5	43	12.69	9.00	3.5
51	56.24	44.07	5.5	101	15.14	8.42	4.5	44	14.81	9.00	5.5
52	24.22	17.26	5.5	102	16.31	8.80	5.5	45	8.61	8.00	5.5
53	25.46	7.13	5.5	103	17.01	10.19	4.5	46	13.50	9.00	5.5
54	13.18	9.84	5.5	104	12.89	4.66	3.5	47	15.31	11.00	3.5
55	12.95	7.68	2.5	105	16.96	13.76	3.5	48	23.73	12.00	3.5

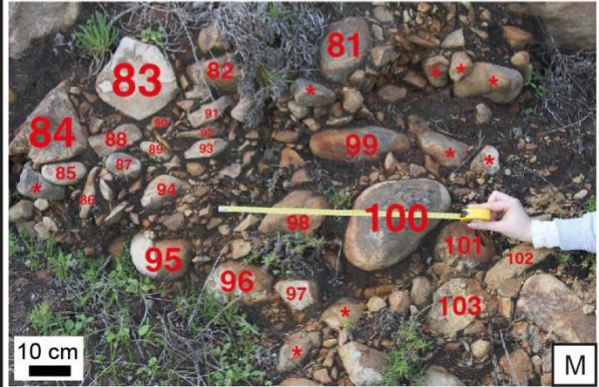
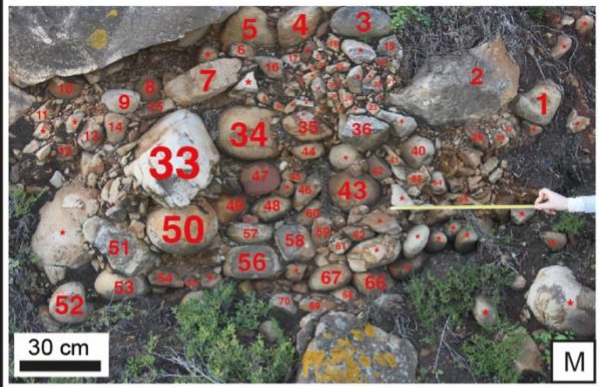
Kogel Bay

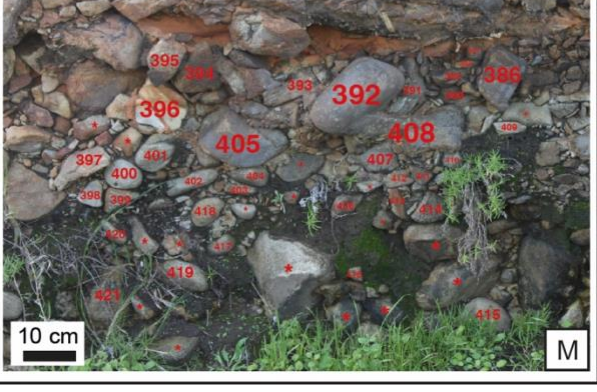
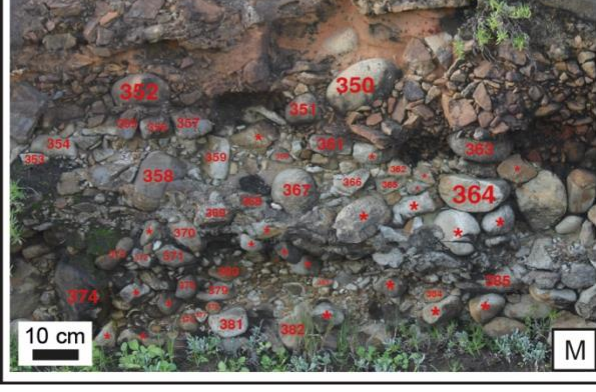
Clast ID	Length	Width	R	Clast ID	Length	Width	R
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51	129.51	114.00	3.5	101	27.69	22.67	4.5
52	12.20	12.00	5.5	102	19.20	15.70	4.5
53	10.70	6.00	5.5	103	22.31	16.71	5.5
54	12.26	6.13	3.5	104	13.57	11.47	4.5
55	39.00	27.00	3.5	105	29.36	13.81	3.5
56	18.11	12.00	5.5	106	17.93	14.00	4.5
57	11.24	10.00	3.5	107	20.68	12.52	5.5
58	9.00	6.00	3.5	108	23.25	19.80	5.5
59	19.00	7.00	4.5	109	23.65	9.55	4.5
60	8.00	4.00	5.5	110	16.60	8.04	5.5
61	271.00	167.00	4.5	111	26.60	23.32	3.5
62	14.00	8.00	5.5	112	16.43	10.05	3.5
63	22.00	16.33	4.5	113	11.61	6.71	5.5
64	22.00	19.73	4.5	114	21.01	13.85	4.5
65	23.00	19.36	4.5	115	27.73	16.46	4.5
66	28.00	15.17	4.5	116	16.91	12.50	4.5
67	321.00	229.97	3.5	117	9.51	7.63	5.5
68	25.00	15.54	3.5				
69	19.00	14.33	3.5				
70	40.00	30.79	4.5				
71	18.00	9.55	4.5				
72	21.00	12.95	4.5				
73	14.00	7.70	4.5				
74	30.08	12.20	4.5				
75	19.18	18.35	4.5				
76	18.48	13.57	5.5				
77	24.83	13.64	3.5				
78	13.93	9.56	3.5				
79	11.94	8.17	5.5				
80	18.76	11.71	5.5				
81	12.96	7.18	3.5				
82	9.23	7.03	4.5				
83	8.97	6.74	4.5				
84	9.48	4.87	5.5				
85	18.32	6.31	4.5				
86	15.08	11.18	4.5				
87	32.15	13.41	5.5				
88	34.72	17.40	5.5				
89	14.47	11.07	3.5				
90	11.52	9.55	4.5				
91	17.76	12.30	4.5				
92	51.41	28.47	4.5				
93	17.86	10.49	5.5				
94	18.44	8.67	5.5				
95	44.87	26.16	5.5				
96	19.13	9.38	4.5				
97	19.72	16.91	4.5				
98	24.37	19.05	3.5				

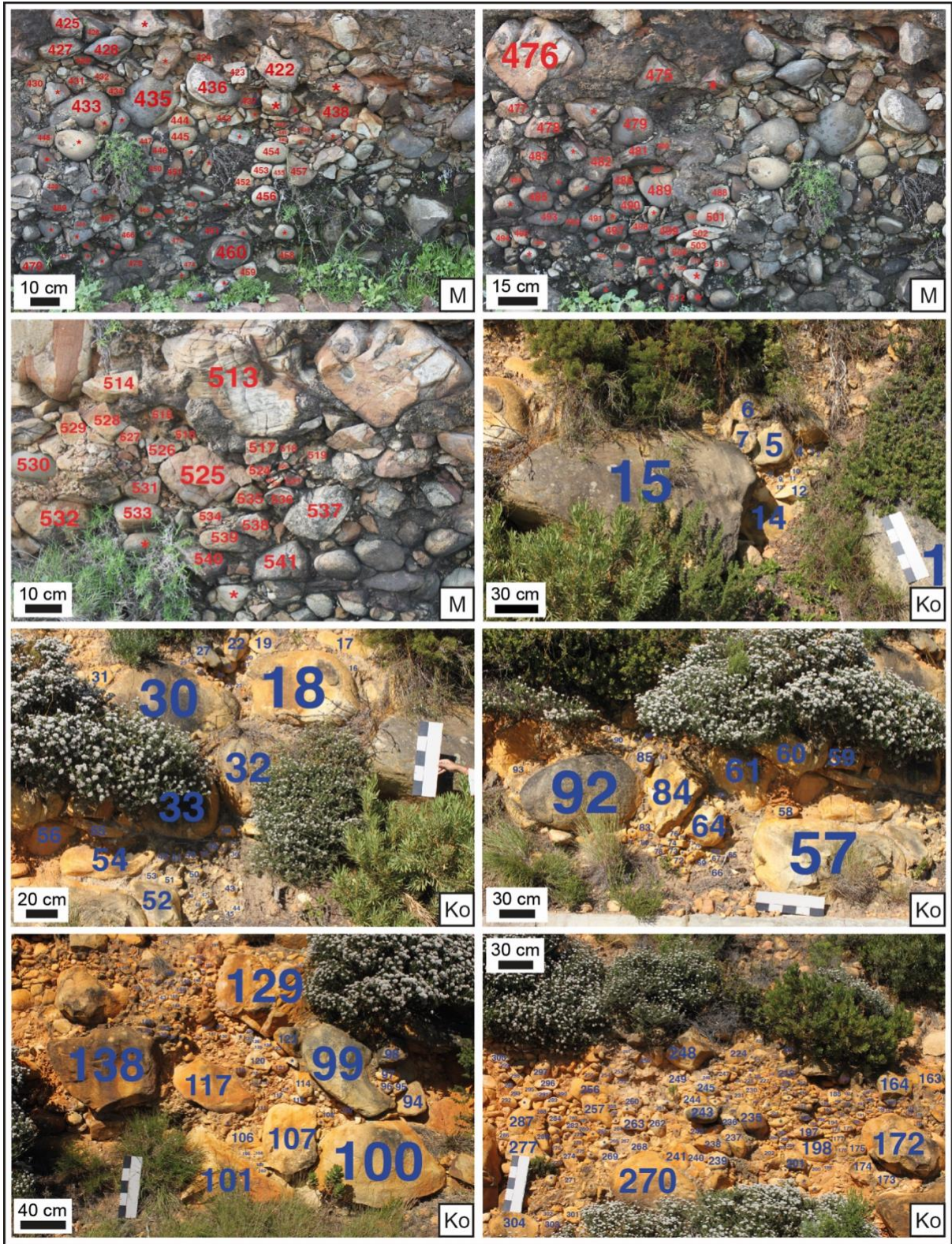
Appendix B. Photographs used for clast counting

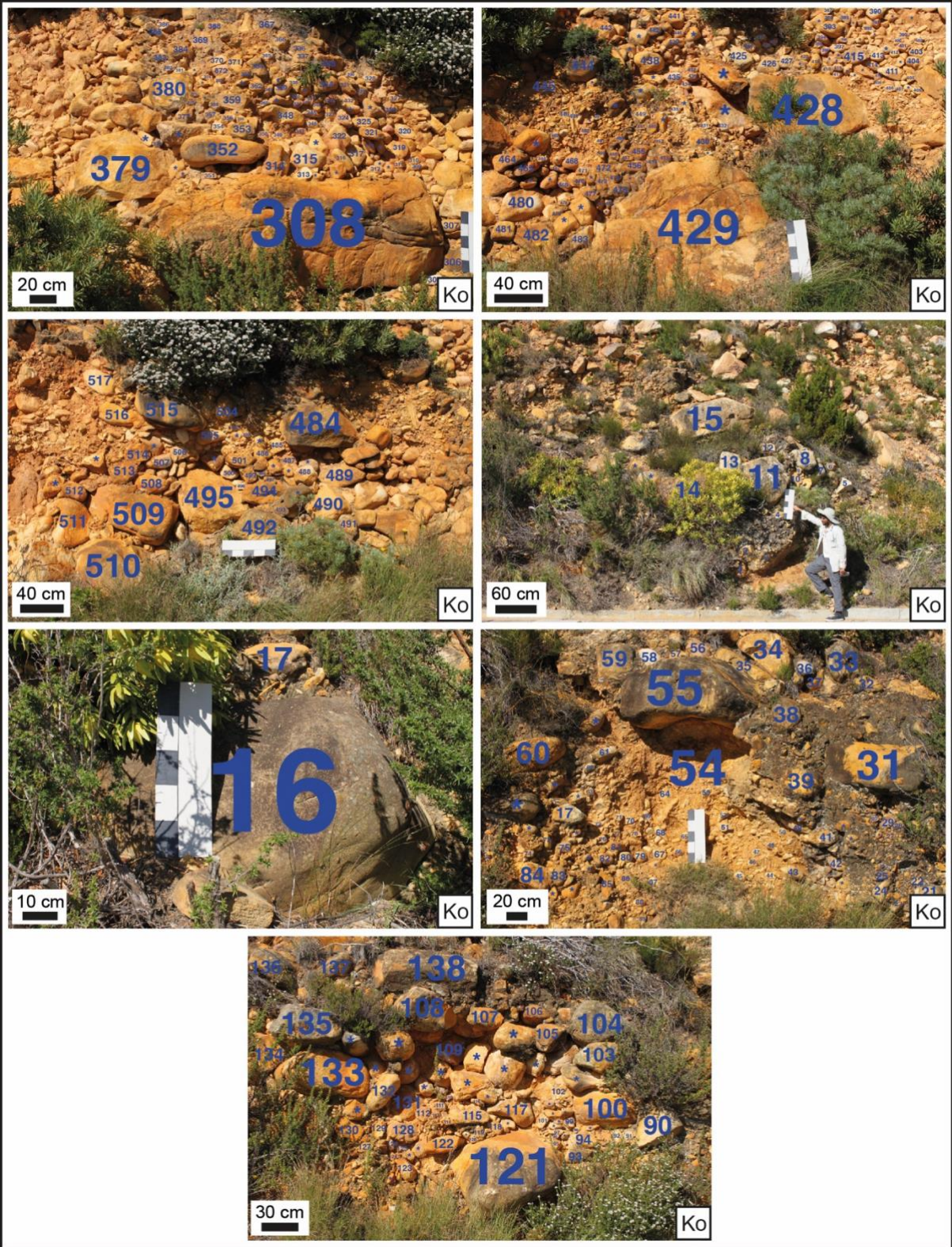
Figure B 1. Clasts included in the clast count in each study region (K: Karbonkelberg, G: Glencairn, M: Misty Cliffs, Ko: Kogel Bay).

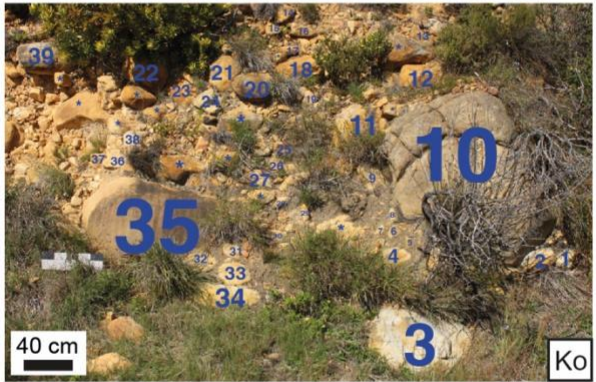


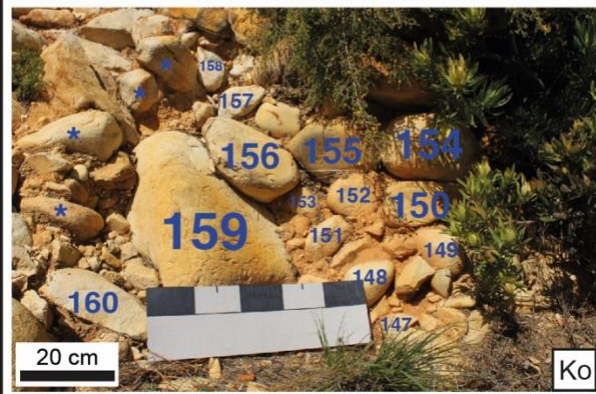
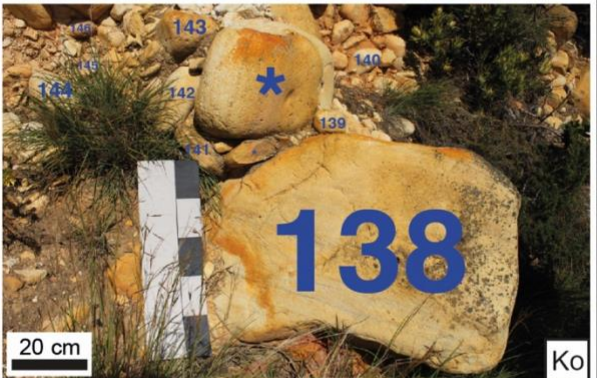


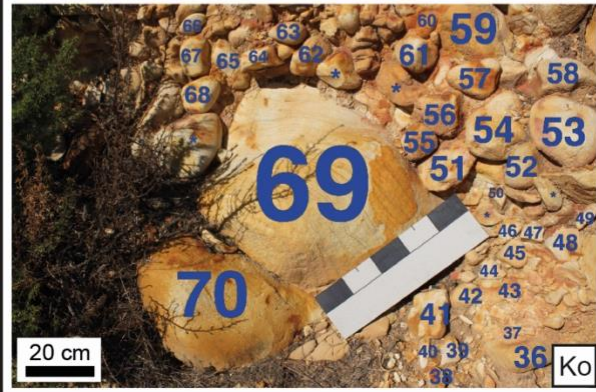
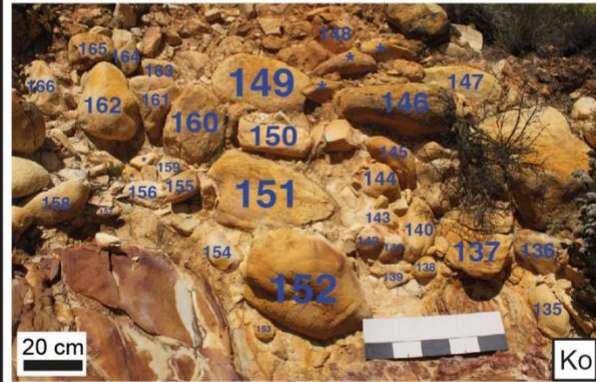
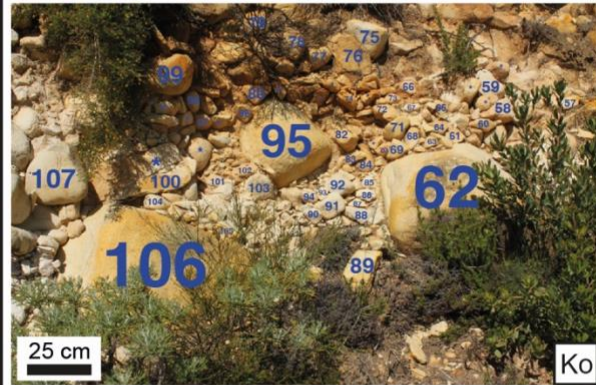


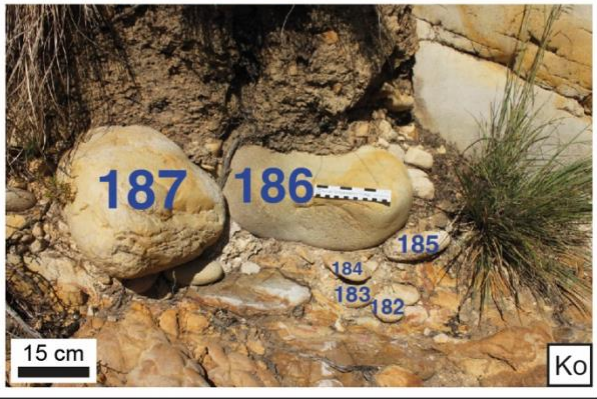
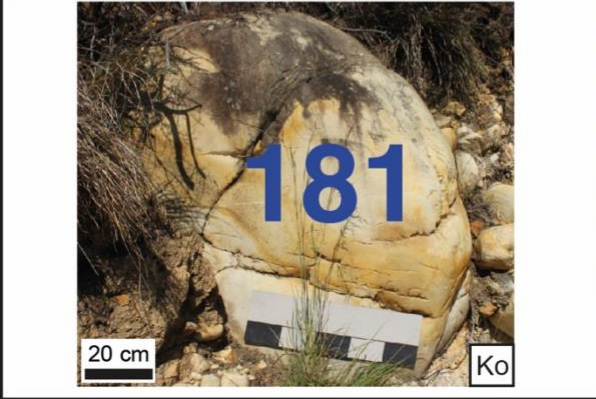
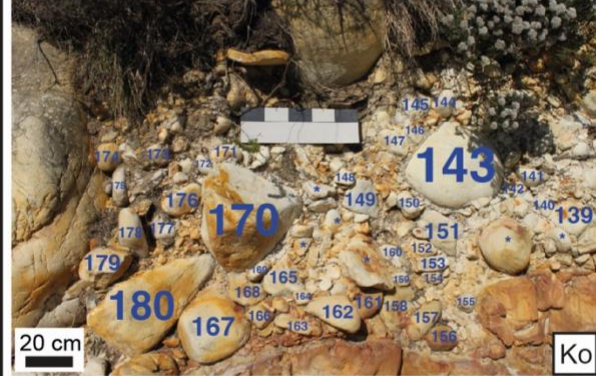
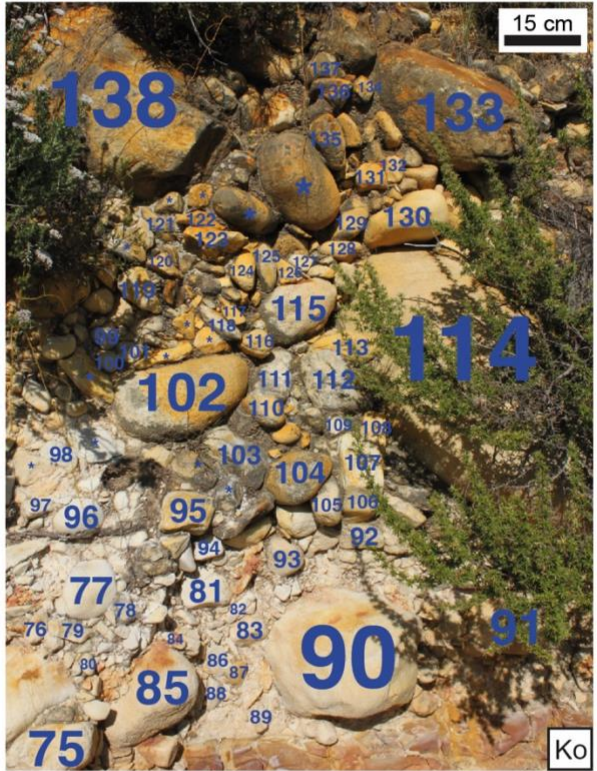


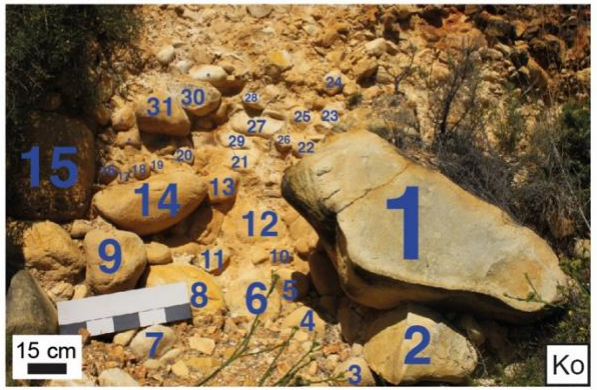
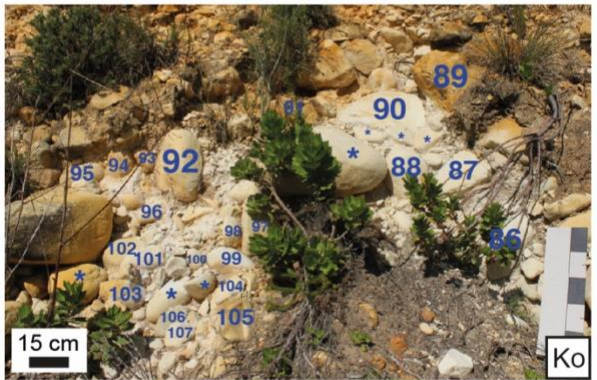
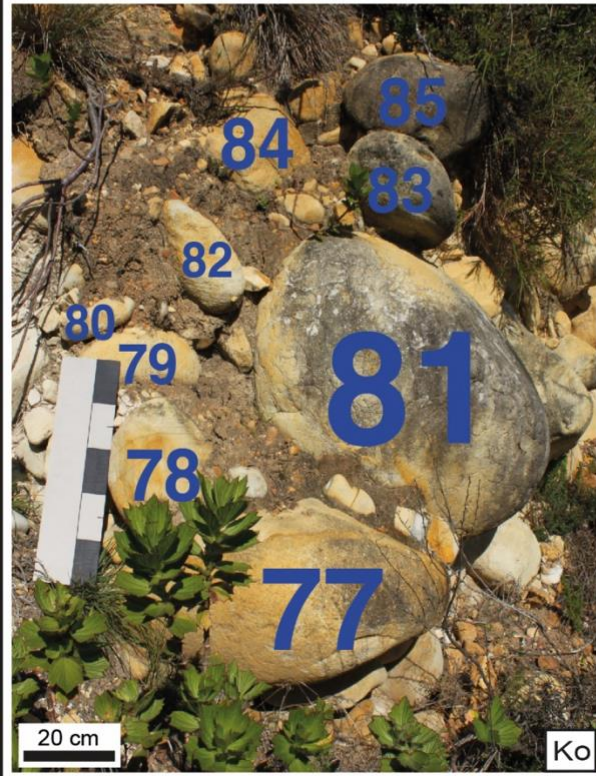
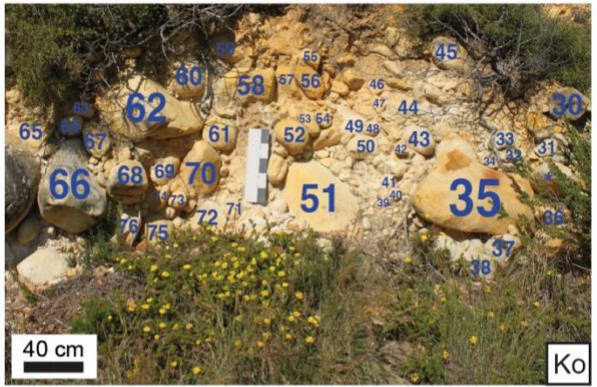


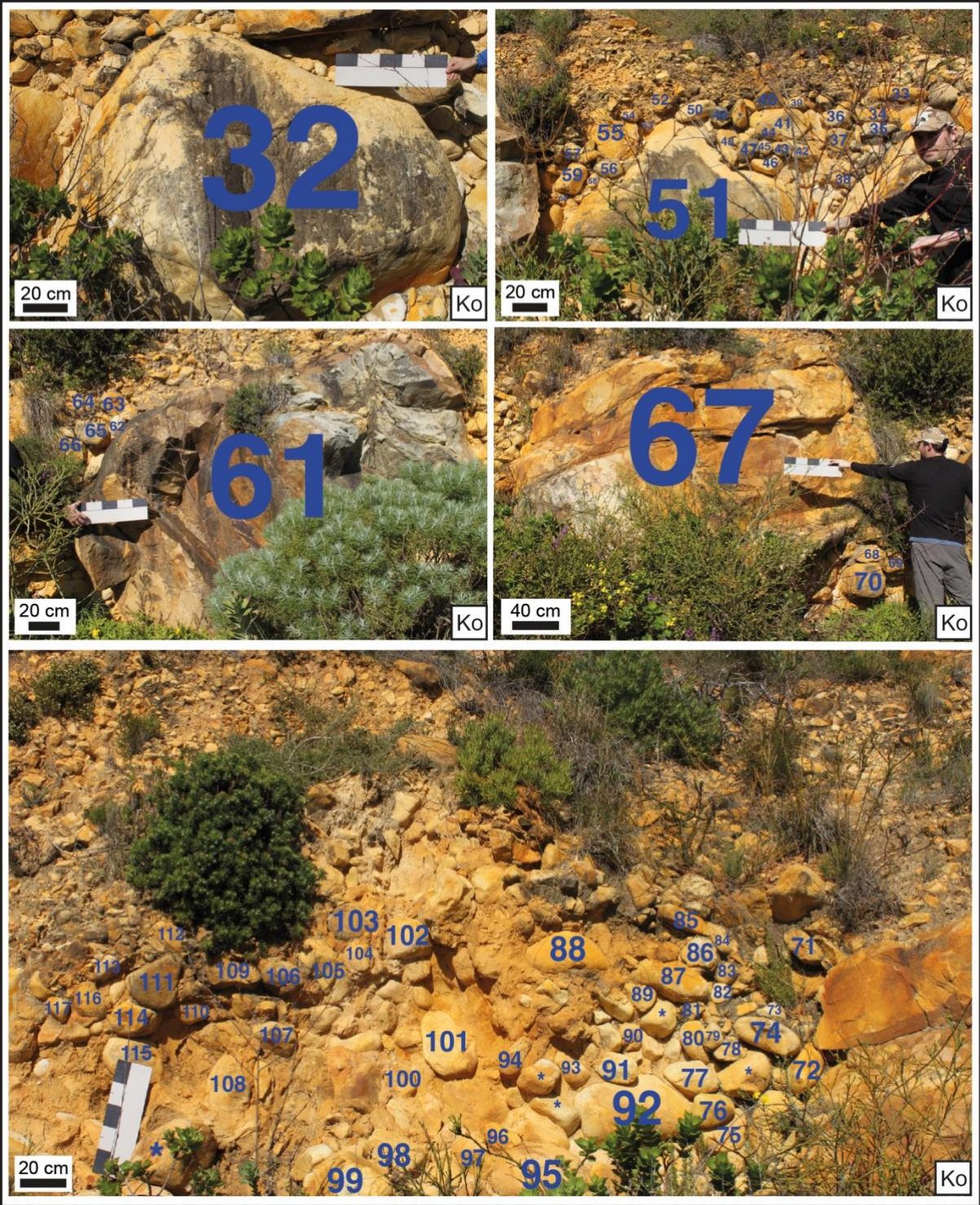












Appendix C. Standard deviation calculation for sorting

Table C1. Phi values found from the cumulative frequency curve for standard deviation calculation.

Site name	ϕ_5	ϕ_{16}	ϕ_{50}	ϕ_{84}	ϕ_{95}	Standard deviation (ϕ)
Kogel Bay	-9.15	-8.11	-7.06	-6.26	-5.81	0.97
Glencairn	-9.71	-9.12	-7.75	-6.95	-6.56	1.02
Karbonkelberg	-8.51	-7.99	-7.06	-6.39	-5.93	0.79
Misty Cliffs	-7.73	-7.22	-6.55	-5.85	-5.43	0.69

Appendix D. Hydraulic model calculations

Table D1. Hydraulic model formula and parameters and data of five clasts giving the five highest wave heights in four locations studied.

Sample number	a-axis (m)	b-axis (m)	c-axis (m)	Estimated volume (m³)	weight (t)	Nott (2003) Hs (m)	Pignatelli et al. (2009) Sm (m)
K.Bay-2069	3.21	2.3	2.3	16.98	44.31	27.78	3.29
K.Bay-1624	2.91	1.39	1.39	5.64	14.73	25.19	1.99
K.Bay-841	2.8	1.97	1.97	10.87	28.38	24.22	2.82
K.Bay-2063	2.71	1.67	1.67	7.56	19.73	23.46	2.39
K.Bay-308	2.38	0.93	0.93	2.04	5.34	20.58	1.33
G-231	1.89	0.42	0.42	0.33	0.87	16.39	0.6
G-211	1.55	0.51	0.51	0.40	1.05	13.46	0.73
G-232	1.55	0.49	0.49	0.38	0.98	13.4	0.7
G-49	1.33	0.68	0.68	0.61	1.58	11.48	0.97
G-131	1.3	0.93	0.93	1.12	2.92	11.24	1.33
K-102	0.59	0.41	0.41	0.10	0.26	5.1	0.59
K-110	0.54	0.23	0.23	0.27	0.07	4.67	0.32
K-122	0.52	0.44	0.44	0.10	0.26	4.48	0.63
K-3	0.51	0.49	0.49	0.12	0.32	4.44	0.7
K-9	0.45	0.24	0.24	0.03	0.07	3.86	0.34
M-75	0.5	0.33	0.33	0.05	0.14	4.3	0.47
M-2	0.48	0.25	0.25	0.03	0.08	4.12	0.36
M-104	0.45	0.18	0.18	0.01	0.04	3.86	0.25
M-113	0.39	0.25	0.25	0.02	0.06	3.37	0.35
M-150	0.35	0.08	0.08	0.00	0.01	3.03	0.12

Appendix E. SAWS data

Table E1. Wind speeds in m/s taken from SAWS's Slankop, Molteno Reservoir and Kirstenbosch stations at three different times a day from December 2020 to December 2022.

Slangkop Measured at 08.00

Year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
2020												4.5
2021	4	4.6	4.9	3.3	3.7	5	5.9	4.9	5.4	5.2	5.1	4.7
2022	4.3	3.9	4.4	4.2	3.5	4.6	5	5.4	3.6	4.2	4	4.4

Slangkop Measured at 14.00

Year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
2020												5.7
2021	6.6	6	5.9	5.3	4.8	6.2	6.4	5.6	6.7	6.7	6.4	6.8
2022	6.6	5.5	6.5	5.4	5	5.3	6.2	7.1	5.6	6.2	5.5	5.9

Slangkop Measured at 20.00

Year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
2020												6.4
2021	7.2	6.1	4.5	3.6	3.6	4.8	5.4	4.6	6.1	5	6.1	6.2
2022	5.8	4.6	6.1	5	3.9	3.8	4.2	5.2	3.9	5.8	4.7	5.4

Molteno Reservoir Measured at 08.00

Year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
2020												1.7
2021	1.3	1.7	1.6	0.7	0.9	1.3	1.3	1.3	1.9	1.5	1.9	1.5
2022	0.7	1.1	1.2	1.4	0.6	1.1	1.1	1.5	0.8	1.3	1.8	1.9

Molteno Reservoir Measured at 14.00

Year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
2020												3.5
2021	3.1	3.3	2.7	2.5	2.4	2.2	2.3	2.7	3.1	2.9	3.4	2.9
2022	2.7	2.8	2.7	2.6	2.3	2.2	2.3	2.8	3.1	2.9	3.3	3.5

Molteno Reservoir Measured at 20.00

Year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
2020												3.2
2021	3.5	3.1	2.6	1.5	1.7	1.2	1.6	2.1	2.6	2.3	2.7	3.1
2022	2.7	2.4	2.7	2.2	1.6	1	1.5	2.1	1.8	2.6	2.7	2.9

Table E1. continued.

Kirstenbosch Measured at 08.00												
Year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
2020												1.2
2021	0.9	1.1	1.3	1.6	1.7	2.1	2	1.9	1.5	1.4	1.5	1.2
2022	1.1	1.1	1.6	1.9	1.7	2.3	1.9	1.7	1.2	0.8	1.2	1.3
Kirstenbosch Measured at 14.00												
Year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
2020												2.5
2021	2.7	2.6	2.1	2	1.8	2.2	1.7	1.9	2.4	2.3	2.7	2.4
2022	2.4	2.3	2.6	2.1	1.4	1.9	1.8	2.1	2.2	2.1	2.5	2.5
Kirstenbosch Measured at 20.00												
Year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
2020												2.1
2021	2	1.6	2	1.9	1.8	2	2.2	2	2.1	1.9	1.9	1.7
2022	1.6	1.7	2	1.9	2.1	2.2	2	2.3	2.1	1.8	1.9	1.8

Table E2. Wind speeds in m/s taken from SAWS's Slankop, Molteno Reservoir and Kirstenbosch stations at three different times a day on 19 and 20 January 2022, when the Antipolis wreck washed ashore.

Slangkop	at 08.00	at 14.00	at 20.00
19-Jan	1.7	5	6
20-Jan	2.3	5.2	5.3
Molteno Reservoir	at 08.00	at 14.00	at 20.00
19-Jan	1.3	2.1	1.3
20-Jan	0	2.6	2.2
Kirstenbosch	at 08.00	at 14.00	at 20.00
19-Jan	0	2	1.3
20-Jan	1.2	2.2	1.3

Clast id	Site name	Axes			Adjusted V(m3)	density(Kg /m3)	Adjusted mass (t)	Pignatelli et al.	Nott (2003)
		A(m)	B(m)	C(m)				(2009) (density =2610 Kg/m3)	(density= 2610 Kg/m3)
							Sm	Hs=	
1	Karbonkelberg	0.1535	0.13503	0.13503	0.002798781	2610	0.007304818	0.193183416	1.328627778
2	Karbonkelberg	0.14253	0.05317	0.05317	0.000402939	2610	0.001051672	0.076068742	1.233676333
3	Karbonkelberg	0.51241	0.48978	0.48978	0.12291919	2610	0.320819086	0.700713719	4.435193222
4	Karbonkelberg	0.15068	0.06409	0.06409	0.000618922	2610	0.001615387	0.091691662	1.304219111
5	Karbonkelberg	0.40884	0.23356	0.23356	0.022302334	2610	0.058209091	0.334147365	3.538737333
6	Karbonkelberg	0.06852	0.06931	0.06931	0.000329162	2610	0.000859112	0.099159761	0.593078667
7	Karbonkelberg	0.16324	0.12491	0.12491	0.002546953	2610	0.006647548	0.178705032	1.412932889
8	Karbonkelberg	0.35945	0.28976	0.28976	0.03017973	2610	0.078769096	0.414551038	3.111239444
9	Karbonkelberg	0.44634	0.23866	0.23866	0.0254229	2610	0.066353768	0.341443783	3.863320667
10	Karbonkelberg	0.15756	0.08164	0.08164	0.001050152	2610	0.002740895	0.116799927	1.363769333
11	Karbonkelberg	0.17841	0.11335	0.11335	0.002292251	2610	0.005982776	0.162166483	1.544237667
12	Karbonkelberg	0.26543	0.21005	0.21005	0.011711038	2610	0.030565808	0.300512305	2.297444111
13	Karbonkelberg	0.32819	0.22185	0.22185	0.016152666	2610	0.042158458	0.317394215	2.840666778
14	Karbonkelberg	0.33904	0.19534	0.19534	0.012936992	2610	0.033765549	0.279467144	2.934579556
15	Karbonkelberg	0.16534	0.05478	0.05478	0.00049616	2610	0.001294978	0.078372121	1.431109556
16	Karbonkelberg	0.05104	0.03435	0.03435	6.02232E-05	2610	0.000157183	0.049143526	0.441779556
17	Karbonkelberg	0.0971	0.02824	0.02824	7.7437E-05	2610	0.000202111	0.04040213	0.840454444
18	Karbonkelberg	0.03474	0.02648	0.02648	2.43594E-05	2610	6.35779E-05	0.037884151	0.300694
19	Karbonkelberg	0.06326	0.05735	0.05735	0.000208064	2610	0.000543046	0.082048944	0.547550444
20	Karbonkelberg	0.11028	0.05586	0.05586	0.000344111	2610	0.00089813	0.079917245	0.954534667
21	Karbonkelberg	0.10678	0.09786	0.09786	0.001022587	2610	0.002668953	0.140005399	0.924240222
22	Karbonkelberg	0.11951	0.066	0.066	0.000520586	2610	0.001358728	0.094424242	1.034425444
23	Karbonkelberg	0.10412	0.07709	0.07709	0.000618771	2610	0.001614993	0.110290376	0.901216444
24	Karbonkelberg	0.15175	0.05016	0.05016	0.000381807	2610	0.000996516	0.071762424	1.313480556
25	Karbonkelberg	0.1231	0.07609	0.07609	0.000712711	2610	0.001860175	0.108859706	1.065498889
26	Karbonkelberg	0.32662	0.2005	0.2005	0.013130206	2610	0.034269837	0.286849403	2.827077556
27	Karbonkelberg	0.11202	0.04406	0.04406	0.000217463	2610	0.000567577	0.063035335	0.969595333
28	Karbonkelberg	0.08345	0.07924	0.07924	0.000523981	2610	0.00136759	0.113366318	0.722306111
29	Karbonkelberg	0.13349	0.08761	0.08761	0.001024604	2610	0.002674217	0.125341028	1.155430111
30	Karbonkelberg	0.20922	0.10615	0.10615	0.002357454	2610	0.006152954	0.151865657	1.810915333
31	Karbonkelberg	0.07927	0.06642	0.06642	0.000349709	2610	0.00091274	0.095025124	0.686125889
32	Karbonkelberg	0.12219	0.06694	0.06694	0.000547529	2610	0.001429051	0.095769073	1.057622333
33	Karbonkelberg	0.06078	0.04949	0.04949	0.000148866	2610	0.00038854	0.070803875	0.526084667
34	Karbonkelberg	0.16725	0.1114	0.1114	0.002075566	2610	0.005417227	0.159376676	1.447641667
35	Karbonkelberg	0.07902	0.06496	0.06496	0.000333449	2610	0.000870301	0.092936345	0.683962
36	Karbonkelberg	0.33659	0.08796	0.08796	0.002604184	2610	0.00679692	0.125841763	2.913373444
37	Karbonkelberg	0.34028	0.2721	0.2721	0.02519379	2610	0.065755792	0.389285399	2.945312444
38	Karbonkelberg	0.34649	0.118	0.118	0.004824527	2610	0.012592015	0.1688191	2.999063444
39	Karbonkelberg	0.13038	0.05967	0.05967	0.000464219	2610	0.001211612	0.085368099	1.128511333
40	Karbonkelberg	0.08152	0.0678	0.0678	0.000374734	2610	0.000978057	0.096999449	0.705600889
41	Karbonkelberg	0.06861	0.04212	0.04212	0.000121721	2610	0.000317691	0.060259835	0.593857667
42	Karbonkelberg	0.34749	0.16297	0.16297	0.009229064	2610	0.024087856	0.233156345	3.007719
43	Karbonkelberg	0.06189	0.03425	0.03425	7.26008E-05	2610	0.000189488	0.049000459	0.535692333
44	Karbonkelberg	0.05393	0.05236	0.05236	0.000147853	2610	0.000385896	0.074909899	0.466794111
45	Karbonkelberg	0.12518	0.07122	0.07122	0.000634949	2610	0.001657217	0.101892342	1.083502444
46	Karbonkelberg	0.09694	0.03839	0.03839	0.000142869	2610	0.000372889	0.054923434	0.839069556
47	Karbonkelberg	0.2063	0.13572	0.13572	0.003800029	2610	0.009918076	0.194170579	1.785641111
48	Karbonkelberg	0.07915	0.04194	0.04194	0.000139222	2610	0.000363369	0.060002314	0.685087222

49	Karbonkelberg	0.11414	0.07438	0.07438	0.000631466	2610	0.001648127	0.10641326	0.987945111
50	Karbonkelberg	0.1535	0.09324	0.09324	0.001334483	2610	0.003483	0.133395702	1.328627778
51	Karbonkelberg	0.20886	0.12334	0.12334	0.003177336	2610	0.008292847	0.17645888	1.807799333
52	Karbonkelberg	0.22258	0.36848	0.36848	0.030221358	2610	0.078877745	0.527173407	1.926553556
53	Karbonkelberg	0.15044	0.10864	0.10864	0.001775591	2610	0.004634291	0.155428026	1.302141778
54	Karbonkelberg	0.12852	0.08718	0.08718	0.000976797	2610	0.002549441	0.12472584	1.112412
55	Karbonkelberg	0.13299	0.05623	0.05623	0.000420489	2610	0.001097478	0.080446593	1.151102333
56	Karbonkelberg	0.10298	0.09308	0.09308	0.000892207	2610	0.00232866	0.133166795	0.891349111
57	Karbonkelberg	0.11587	0.09633	0.09633	0.001075212	2610	0.002806303	0.137816474	1.002919222
58	Karbonkelberg	0.09891	0.0578	0.0578	0.000330442	2610	0.000862455	0.082692746	0.856121
59	Karbonkelberg	0.2203	0.13557	0.13557	0.004048943	2610	0.010567742	0.193955978	1.906818889
60	Karbonkelberg	0.25007	0.2127	0.2127	0.011313489	2610	0.029528207	0.304303581	2.164494778
61	Karbonkelberg	0.1489	0.08936	0.08936	0.001188998	2610	0.003103284	0.127844702	1.288812222
62	Karbonkelberg	0.09444	0.07186	0.07186	0.000487675	2610	0.001272831	0.102807971	0.817430667
63	Karbonkelberg	0.05232	0.04714	0.04714	0.000116264	2610	0.00030345	0.0674418	0.452858667
64	Karbonkelberg	0.27705	0.11499	0.11499	0.003663349	2610	0.009561341	0.164512782	2.398021667
65	Karbonkelberg	0.13375	0.07113	0.07113	0.000676705	2610	0.0017662	0.101763581	1.157680556
66	Karbonkelberg	0.20225	0.1969	0.1969	0.007841154	2610	0.020465411	0.28169899	1.750586111
67	Karbonkelberg	0.23904	0.08534	0.08534	0.001740908	2610	0.00454377	0.122093407	2.069024
68	Karbonkelberg	0.3075	0.1635	0.1635	0.008220167	2610	0.021454636	0.233914601	2.661583333
69	Karbonkelberg	0.23288	0.12833	0.12833	0.003835205	2610	0.010009885	0.183597925	2.015705778
70	Karbonkelberg	0.10233	0.05631	0.05631	0.00032447	2610	0.000846866	0.080561047	0.885723
71	Karbonkelberg	0.11901	0.04365	0.04365	0.000226752	2610	0.000591824	0.06244876	1.030097667
72	Karbonkelberg	0.20155	0.11818	0.11818	0.002814951	2610	0.007347021	0.169076621	1.744527222
73	Karbonkelberg	0.14808	0.07439	0.07439	0.000819456	2610	0.00213878	0.106427567	1.281714667
74	Karbonkelberg	0.08951	0.05842	0.05842	0.000305488	2610	0.000797325	0.083579761	0.774758778
75	Karbonkelberg	0.13338	0.0686	0.0686	0.000627681	2610	0.001638247	0.098143985	1.154478
76	Karbonkelberg	0.08385	0.03905	0.03905	0.000127863	2610	0.000333723	0.055867677	0.725768333
77	Karbonkelberg	0.06447	0.036	0.036	8.35531E-05	2610	0.000218074	0.051504132	0.558023667
78	Karbonkelberg	0.05632	0.04337	0.04337	0.000105935	2610	0.000276492	0.062048173	0.487480889
79	Karbonkelberg	0.12659	0.11156	0.11156	0.001575493	2610	0.004112036	0.159605583	1.095706778
80	Karbonkelberg	0.1143	0.10303	0.10303	0.001213315	2610	0.003166753	0.147401965	0.98933
81	Karbonkelberg	0.08801	0.04901	0.04901	0.000211398	2610	0.000551749	0.070117153	0.761775444
82	Karbonkelberg	0.14837	0.09932	0.09932	0.00146359	2610	0.003819971	0.142094178	1.284224778
83	Karbonkelberg	0.20392	0.13523	0.13523	0.003729116	2610	0.009732993	0.19346955	1.765040889
84	Karbonkelberg	0.18592	0.07548	0.07548	0.001059229	2610	0.002764588	0.107986997	1.609240889
85	Karbonkelberg	0.11541	0.06374	0.06374	0.000468886	2610	0.001223793	0.091190927	0.998937667
86	Karbonkelberg	0.11258	0.07266	0.07266	0.000594363	2610	0.001551288	0.103952507	0.974442444
87	Karbonkelberg	0.13127	0.10767	0.10767	0.001521791	2610	0.003971874	0.154040275	1.136214778
88	Karbonkelberg	0.1419	0.09944	0.09944	0.001403152	2610	0.003662226	0.142265859	1.228223333
89	Karbonkelberg	0.0964	0.05338	0.05338	0.000274685	2610	0.000716927	0.076369183	0.834395556
90	Karbonkelberg	0.172	0.11572	0.11572	0.002303272	2610	0.006011541	0.165557172	1.488755556
91	Karbonkelberg	0.14292	0.06123	0.06123	0.000535823	2610	0.001398499	0.087599945	1.237052
92	Karbonkelberg	0.14247	0.05657	0.05657	0.000455927	2610	0.001189971	0.080933021	1.233157
93	Karbonkelberg	0.07262	0.05264	0.05264	0.000201228	2610	0.000525205	0.075310487	0.628566444
94	Karbonkelberg	0.16835	0.08757	0.08757	0.001290993	2610	0.003369491	0.125283802	1.457162778
95	Karbonkelberg	0.34699	0.20668	0.20668	0.014822241	2610	0.038686049	0.295690946	3.003391222
96	Karbonkelberg	0.23328	0.21946	0.21946	0.011235393	2610	0.029324375	0.313974913	2.019168
97	Karbonkelberg	0.13035	0.03989	0.03989	0.000207414	2610	0.000541352	0.05706944	1.128251667
98	Karbonkelberg	0.22043	0.05171	0.05171	0.000589413	2610	0.001538368	0.073979963	1.907944111
99	Karbonkelberg	0.19327	0.087	0.087	0.001462861	2610	0.003818066	0.12446832	1.672859222
100	Karbonkelberg	0.09234	0.03004	0.03004	8.33278E-05	2610	0.000217485	0.042977337	0.799254

101	Karbonkelberg	0.12323	0.09777	0.09777	0.001177952	2610	0.003074455	0.139876639	1.066624111
102	Karbonkelberg	0.58904	0.41308	0.41308	0.100510891	2610	0.262333426	0.590981304	5.098468444
103	Karbonkelberg	0.11928	0.05302	0.05302	0.00033531	2610	0.00087516	0.075854141	1.032434667
104	Karbonkelberg	0.0966	0.08139	0.08139	0.00063991	2610	0.001670166	0.116442259	0.836126667
105	Karbonkelberg	0.12218	0.05473	0.05473	0.000365975	2610	0.000955194	0.078300588	1.057535778
106	Karbonkelberg	0.10812	0.06819	0.06819	0.000502745	2610	0.001312163	0.09755741	0.935838667
107	Karbonkelberg	0.10065	0.07285	0.07285	0.000534162	2610	0.001394163	0.104224334	0.871181667
108	Karbonkelberg	0.11565	0.09552	0.09552	0.001055199	2610	0.002754069	0.136657631	1.001015
109	Karbonkelberg	0.16418	0.14598	0.14598	0.003498702	2610	0.009131613	0.208849256	1.421069111
110	Karbonkelberg	0.53948	0.22504	0.22504	0.027320887	2610	0.071307514	0.321958053	4.669499111
111	Karbonkelberg	0.18181	0.12007	0.12007	0.002621119	2610	0.006841121	0.171780588	1.573666556
112	Karbonkelberg	0.33475	0.12185	0.12185	0.004970175	2610	0.012972156	0.174327181	2.897447222
113	Karbonkelberg	0.06109	0.0486	0.0486	0.000144292	2610	0.000376602	0.069530579	0.528767889
114	Karbonkelberg	0.07395	0.03725	0.03725	0.00010261	2610	0.000267813	0.05329247	0.640078333
115	Karbonkelberg	0.12003	0.08098	0.08098	0.000787128	2610	0.002054404	0.115855684	1.038926333
116	Karbonkelberg	0.30401	0.15436	0.15436	0.007243649	2610	0.018905924	0.220838274	2.631375444
117	Karbonkelberg	0.2193	0.0779	0.0779	0.001330802	2610	0.003473394	0.111449219	1.898163333
118	Karbonkelberg	0.15957	0.12386	0.12386	0.002448011	2610	0.006389309	0.177202828	1.381167
119	Karbonkelberg	0.11979	0.07152	0.07152	0.000612739	2610	0.001599249	0.102321543	1.036849
120	Karbonkelberg	0.1462	0.07474	0.07474	0.000816683	2610	0.002131543	0.106928301	1.265442222
121	Karbonkelberg	0.30533	0.16447	0.16447	0.008259293	2610	0.021556754	0.235302351	2.642800778
122	Karbonkelberg	0.51764	0.43826	0.43826	0.099424061	2610	0.259496799	0.627005583	4.480461778
123	Karbonkelberg	0.16782	0.06036	0.06036	0.000611424	2610	0.001595816	0.086355262	1.452575333
124	Karbonkelberg	0.41435	0.28557	0.28557	0.033790336	2610	0.088192776	0.408556529	3.586429444
125	Karbonkelberg	0.14601	0.07342	0.07342	0.000787066	2610	0.002054243	0.105039816	1.263797667
126	Karbonkelberg	0.1322	0.05564	0.05564	0.000409266	2610	0.001068184	0.079602498	1.144264444
127	Karbonkelberg	0.25575	0.19929	0.19929	0.010157496	2610	0.026511064	0.285118292	2.213658333
128	Karbonkelberg	0.22809	0.19159	0.19159	0.008372438	2610	0.021852062	0.27410213	1.974245667
129	Karbonkelberg	0.06724	0.06686	0.06686	0.00030058	2610	0.000784514	0.095654619	0.581999556
130	Karbonkelberg	0.08598	0.03699	0.03699	0.000117643	2610	0.000307048	0.052920496	0.744204667
131	Karbonkelberg	0.32629	0.1791	0.1791	0.010466342	2610	0.027317153	0.256233058	2.824221222
132	Karbonkelberg	0.15814	0.05394	0.05394	0.000460112	2610	0.001200892	0.077170358	1.368789556
133	Karbonkelberg	0.22703	0.08691	0.08691	0.001714837	2610	0.004475724	0.124339559	1.965070778
134	Karbonkelberg	0.10985	0.06863	0.06863	0.000517402	2610	0.001350419	0.098186905	0.950812778
135	Karbonkelberg	0.12267	0.0599	0.0599	0.000440141	2610	0.001148768	0.085697153	1.061777
136	Karbonkelberg	0.10571	0.05432	0.05432	0.000311915	2610	0.000814097	0.077714013	0.914978778
137	Karbonkelberg	0.11679	0.0502	0.0502	0.000294315	2610	0.000768163	0.071819651	1.010882333
138	Karbonkelberg	0.14551	0.05246	0.05246	0.000400451	2610	0.001045177	0.075052966	1.259469889
139	Karbonkelberg	0.12009	0.07998	0.07998	0.000768192	2610	0.00200498	0.114425014	1.039445667
140	Karbonkelberg	0.22883	0.19547	0.19547	0.008743256	2610	0.022819898	0.279653131	1.980650778
141	Karbonkelberg	0.08785	0.04366	0.04366	0.000167459	2610	0.000437069	0.062463067	0.760390556
142	Karbonkelberg	0.24127	0.11504	0.11504	0.003193016	2610	0.008333771	0.164584316	2.088325889
143	Karbonkelberg	0.04601	0.02987	0.02987	4.10509E-05	2610	0.000107143	0.042734123	0.398242111
144	Karbonkelberg	0.08486	0.08112	0.08112	0.000558417	2610	0.001457469	0.116055978	0.734510444
145	Karbonkelberg	0.06175	0.02982	0.02982	5.49101E-05	2610	0.000143315	0.04266259	0.534480556
146	Karbonkelberg	0.07383	0.04129	0.04129	0.00012587	2610	0.000328521	0.059072378	0.639039667
147	Karbonkelberg	0.08808	0.06455	0.06455	0.000367003	2610	0.000957878	0.09234977	0.762381333
148	Karbonkelberg	0.23242	0.158	0.158	0.005802133	2610	0.015143567	0.226045914	2.011724222
1	Glencairn	0.9625	0.52687	0.52687	0.267182297	2610	0.697345795	0.753777282	8.330972222
2	Glencairn	0.70037	0.64154	0.64154	0.288253782	2610	0.752342372	0.91783225	6.062091444
3	Glencairn	0.50305	0.24969	0.24969	0.031362701	2610	0.081856649	0.357224077	4.354177222
4	Glencairn	0.17735	0.04979	0.04979	0.000439658	2610	0.001147509	0.071233076	1.535062778

5	Glencairn	0.09501	0.07647	0.07647	0.000555586	2610	0.00145008	0.109403361	0.822364333
6	Glencairn	0.18362	0.08258	0.08258	0.001252189	2610	0.003268212	0.118144757	1.589333111
7	Glencairn	0.22636	0.10744	0.10744	0.002612954	2610	0.006819809	0.153711221	1.959271556
8	Glencairn	0.15905	0.04932	0.04932	0.000386883	2610	0.001009765	0.070560661	1.376666111
9	Glencairn	0.16211	0.07834	0.07834	0.000994894	2610	0.002596674	0.112078714	1.403152111
10	Glencairn	0.10282	0.06715	0.06715	0.000463628	2610	0.001210069	0.096069513	0.889964222
11	Glencairn	0.10683	0.09176	0.09176	0.000899498	2610	0.002347689	0.13127831	0.924673
12	Glencairn	0.65131	0.36873	0.36873	0.088553288	2610	0.231124083	0.527531074	5.637449889
13	Glencairn	0.30124	0.186	0.186	0.010421699	2610	0.027200634	0.266104683	2.607399556
14	Glencairn	0.69136	0.29174	0.29174	0.05884319	2610	0.153580725	0.417383765	5.984104889
15	Glencairn	0.1471	0.07958	0.07958	0.000931581	2610	0.002431426	0.113852746	1.273232222
16	Glencairn	0.19926	0.15611	0.15611	0.004856032	2610	0.012674244	0.223341947	1.724706
17	Glencairn	0.33081	0.1442254	0.1442254	0.006881167	2610	0.017959847	0.206338999	2.863344333
18	Glencairn	0.33056	0.05514	0.05514	0.001005041	2610	0.002623157	0.078887163	2.861180444
19	Glencairn	0.09807	0.06423	0.06423	0.000404587	2610	0.001055972	0.091891956	0.848850333
20	Glencairn	0.586	0.50118	0.50118	0.147192296	2610	0.384171892	0.717023361	5.072155556
21	Glencairn	0.19357	0.19077	0.19077	0.00704463	2610	0.018386485	0.272928981	1.675455889
22	Glencairn	0.312	0.08029	0.08029	0.002011303	2610	0.005249501	0.114868522	2.700533333
23	Glencairn	1.01379	0.78244	0.78244	0.620654762	2610	1.619908929	1.119413701	8.774915667
24	Glencairn	0.47671	0.3287	0.3287	0.051505507	2610	0.134429374	0.470261341	4.126189889
25	Glencairn	0.697	0.31918	0.31918	0.071007483	2610	0.185329531	0.456641359	6.032922222
26	Glencairn	0.31491	0.03988	0.03988	0.000500837	2610	0.001307186	0.057055133	2.725721
27	Glencairn	0.18827	0.13541	0.13541	0.003452094	2610	0.009009965	0.193727071	1.629581444
28	Glencairn	0.78723	0.26799	0.26799	0.056537788	2610	0.147563627	0.383405344	6.813913
29	Glencairn	0.1994	0.08117	0.08117	0.001313761	2610	0.003428915	0.116127511	1.725917778
30	Glencairn	0.30641	0.13886	0.13886	0.005908228	2610	0.015420475	0.198662883	2.652148778
31	Glencairn	0.18395	0.2233	0.2233	0.009172279	2610	0.023939647	0.319468687	1.592189444
32	Glencairn	0.25444	0.17041	0.17041	0.007388828	2610	0.01928484	0.243800533	2.202319556
33	Glencairn	0.46729	0.35932	0.35932	0.060332215	2610	0.157467081	0.514068466	4.044654556
34	Glencairn	0.54256	0.40669	0.40669	0.089737664	2610	0.234215303	0.58183932	4.696158222
35	Glencairn	0.35501	0.29388	0.29388	0.0306606	2610	0.080024166	0.420445399	3.072808778
36	Glencairn	0.41543	0.30586	0.30586	0.038863618	2610	0.101434042	0.43758483	3.595777444
37	Glencairn	0.42887	0.36409	0.36409	0.056851663	2610	0.148382839	0.520892764	3.712108111
38	Glencairn	0.687	0.26342	0.26342	0.047670996	2610	0.1244213	0.376867181	5.946366667
39	Glencairn	0.59056	0.33453	0.33453	0.066089759	2610	0.172494271	0.478602149	5.111624889
40	Glencairn	0.2535	0.10167	0.10167	0.002620376	2610	0.006839181	0.145456253	2.194183333
41	Glencairn	0.56016	0.45624	0.45624	0.11660007	2610	0.304326182	0.652729036	4.848496
42	Glencairn	0.19347	0.08933	0.08933	0.001543861	2610	0.004029478	0.127801781	1.674590333
43	Glencairn	0.52893	0.26187	0.26187	0.036271849	2610	0.094669526	0.374649642	4.578183
44	Glencairn	0.26638	0.14457	0.14457	0.005567471	2610	0.0145311	0.206832011	2.305666889
45	Glencairn	0.71633	0.39176	0.39176	0.10993939	2610	0.286941807	0.560479412	6.200234111
46	Glencairn	0.55668	0.21419	0.21419	0.025539007	2610	0.066656807	0.30643528	4.818374667
47	Glencairn	0.24053	0.16562	0.16562	0.006597734	2610	0.017220086	0.236947622	2.081920778
48	Glencairn	0.6515	0.52054	0.52054	0.176531672	2610	0.460747665	0.744721139	5.639094444
49	Glencairn	1.32684	0.67574	0.67574	0.605867715	2610	1.581314735	0.966761175	11.48453733
50	Glencairn	0.42963	0.2479	0.2479	0.026402658	2610	0.068910938	0.354663177	3.718686333
51	Glencairn	0.20022	0.17782	0.17782	0.006330947	2610	0.016523771	0.2544018	1.733015333
52	Glencairn	0.14987	0.1071	0.1071	0.00171907	2610	0.004486774	0.153224793	1.297208111
53	Glencairn	0.30223	0.24714	0.24714	0.018459658	2610	0.048179708	0.353575868	2.615968556
54	Glencairn	0.71482	0.4087	0.4087	0.119400452	2610	0.31163518	0.584714968	6.187164222
55	Glencairn	0.1328	0.14232	0.14232	0.002689862	2610	0.007020539	0.203613003	1.149457778
56	Glencairn	0.28766	0.13472	0.13472	0.005220879	2610	0.013626494	0.192739908	2.489857111

57	Glencairn	0.25609	0.11607	0.11607	0.003450107	2610	0.00900478	0.166057906	2.216601222
58	Glencairn	0.21235	0.16471	0.16471	0.005760925	2610	0.015036014	0.235645712	1.838007222
59	Glencairn	0.30557	0.21007	0.21007	0.013484622	2610	0.035194864	0.300540918	2.644878111
60	Glencairn	0.24926	0.17142	0.17142	0.007324459	2610	0.019116839	0.24524551	2.157483778
61	Glencairn	0.60673	0.59722	0.59722	0.216403438	2610	0.564812973	0.85442494	5.251585222
62	Glencairn	0.47389	0.32486	0.32486	0.050011517	2610	0.130530058	0.464767567	4.101781222
63	Glencairn	0.25924	0.23296	0.23296	0.014069049	2610	0.036720217	0.333288962	2.243866222
64	Glencairn	0.70122	0.34584	0.34584	0.083869632	2610	0.218899741	0.49478303	6.069448667
65	Glencairn	0.48138	0.21228	0.21228	0.02169233	2610	0.056616981	0.3037027	4.166611333
66	Glencairn	0.16497	0.16394	0.16394	0.004433787	2610	0.011572184	0.234544096	1.427907
67	Glencairn	0.09792	0.07738	0.07738	0.000586312	2610	0.001530275	0.110705271	0.847552
68	Glencairn	0.16733	0.10964	0.10964	0.002011462	2610	0.005249916	0.156858696	1.448334111
69	Glencairn	0.41059	0.39147	0.39147	0.062922409	2610	0.164227487	0.560064518	3.553884556
70	Glencairn	0.16025	0.15802	0.15802	0.004001494	2610	0.010443899	0.226074527	1.387052778
71	Glencairn	0.12238	0.11383	0.11383	0.001585711	2610	0.004138705	0.162853205	1.059266889
72	Glencairn	0.35174	0.29063	0.29063	0.029709999	2610	0.077543098	0.415795721	3.044505111
73	Glencairn	0.126	0.07671	0.07671	0.000741437	2610	0.001935152	0.109746722	1.0906
74	Glencairn	0.20115	0.05875	0.05875	0.000694282	2610	0.001812075	0.084051882	1.741065
75	Glencairn	0.12879	0.10775	0.10775	0.00149526	2610	0.003902628	0.154154729	1.114749
76	Glencairn	0.1587	0.08236	0.08236	0.001076489	2610	0.002809636	0.117830009	1.373636667
77	Glencairn	0.1926	0.09604	0.09604	0.001776481	2610	0.004636616	0.137401579	1.66706
78	Glencairn	0.14389	0.06729	0.06729	0.000651526	2610	0.001700483	0.096269807	1.245447889
79	Glencairn	0.2041	0.1494	0.1494	0.004555585	2610	0.011890078	0.213742149	1.766598889
80	Glencairn	0.21235	0.16797	0.16797	0.005991226	2610	0.0156371	0.240309697	1.838007222
81	Glencairn	0.33657	0.15917	0.15917	0.008527031	2610	0.022255551	0.227719798	2.913200333
82	Glencairn	0.21896	0.1626	0.1626	0.005789031	2610	0.015109371	0.232626997	1.895220444
83	Glencairn	0.62543	0.26918	0.26918	0.045317327	2610	0.118278224	0.385107842	5.413444111
84	Glencairn	0.27036	0.16214	0.16214	0.007107597	2610	0.018550827	0.231968889	2.340116
85	Glencairn	0.09519	0.09223	0.09223	0.000809722	2610	0.002113373	0.131950725	0.823922333
86	Glencairn	0.14499	0.08549	0.08549	0.001059665	2610	0.002765726	0.122308007	1.254969
87	Glencairn	0.11289	0.06165	0.06165	0.000429064	2610	0.001119856	0.088200826	0.977125667
88	Glencairn	0.1142	0.11388	0.11388	0.00148102	2610	0.003865463	0.162924738	0.988464444
89	Glencairn	0.52051	0.50578	0.50578	0.133153437	2610	0.347530471	0.723604444	4.505303222
90	Glencairn	0.34203	0.15112	0.15112	0.007811026	2610	0.020386778	0.216202902	2.960459667
91	Glencairn	0.14232	0.11751	0.11751	0.00196524	2610	0.005129276	0.168118072	1.231858667
92	Glencairn	0.23755	0.23664	0.23664	0.013302441	2610	0.034719372	0.338553829	2.056127222
93	Glencairn	0.16621	0.07798	0.07798	0.001010703	2610	0.002637935	0.111563673	1.438639889
94	Glencairn	0.13747	0.11087	0.11087	0.001689803	2610	0.004410385	0.158618421	1.189879222
95	Glencairn	0.20254	0.10167	0.10167	0.002093613	2610	0.005464331	0.145456253	1.753096222
96	Glencairn	0.11453	0.09032	0.09032	0.000934302	2610	0.002438527	0.129218145	0.991320778
97	Glencairn	0.07893	0.06056	0.06056	0.000289477	2610	0.000755535	0.086641396	0.683183
98	Glencairn	0.14415	0.13023	0.13023	0.002444763	2610	0.006380831	0.186316198	1.247698333
99	Glencairn	0.08144	0.05446	0.05446	0.000241542	2610	0.000630425	0.077914307	0.704908444
100	Glencairn	0.12644	0.05939	0.05939	0.000445976	2610	0.001163996	0.084967511	1.094408444
101	Glencairn	0.09419	0.0714	0.0714	0.000480177	2610	0.001253262	0.102149862	0.815266778
102	Glencairn	0.13487	0.0832	0.0832	0.000933603	2610	0.002436703	0.119031772	1.167374778
103	Glencairn	0.16323	0.11465	0.11465	0.002145597	2610	0.005600007	0.164026354	1.412846333
104	Glencairn	0.13777	0.07037	0.07037	0.000682228	2610	0.001780616	0.100676272	1.192475889
105	Glencairn	0.13298	0.10794	0.10794	0.001549356	2610	0.004043819	0.154426556	1.151015778
106	Glencairn	0.27379	0.14875	0.14875	0.006058032	2610	0.015811462	0.212812213	2.369804556
107	Glencairn	0.18896	0.11875	0.11875	0.002664631	2610	0.006954688	0.169892103	1.635553778
108	Glencairn	0.12854	0.09754	0.09754	0.001222936	2610	0.003191863	0.139547585	1.112585111

109	Glencairn	0.15458	0.06745	0.06745	0.000703262	2610	0.001835514	0.096498714	1.337975778
110	Glencairn	0.12818	0.06374	0.06374	0.000520768	2610	0.001359205	0.091190927	1.109469111
111	Glencairn	0.15122	0.07296	0.07296	0.000804968	2610	0.002100968	0.104381708	1.308893111
112	Glencairn	0.19561	0.13747	0.13747	0.003696638	2610	0.009648225	0.196674252	1.693113222
113	Glencairn	0.20374	0.07769	0.07769	0.001229721	2610	0.003209571	0.111148779	1.763482889
114	Glencairn	0.24945	0.09024	0.09024	0.002031336	2610	0.005301786	0.129103691	2.159128333
115	Glencairn	0.61812	0.47468	0.47468	0.13927548	2610	0.363509002	0.679110597	5.350172
116	Glencairn	0.41204	0.38097	0.38097	0.05980272	2610	0.156085098	0.545042479	3.566435111
117	Glencairn	1.21344	0.68596	0.68596	0.570973419	2610	1.490240623	0.981382626	10.50299733
118	Glencairn	0.25519	0.16553	0.16553	0.006992252	2610	0.018249778	0.236818861	2.208811222
119	Glencairn	0.4499	0.13023	0.13023	0.007630238	2610	0.019914921	0.186316198	3.894134444
120	Glencairn	0.59001	0.22858	0.22858	0.030827324	2610	0.080459316	0.327022626	5.106864333
121	Glencairn	0.53634	0.20529	0.20529	0.022603504	2610	0.058995147	0.293702314	4.642320667
122	Glencairn	0.19739	0.14659	0.14659	0.00424164	2610	0.011070681	0.209721965	1.708520111
123	Glencairn	0.42258	0.37363	0.37363	0.058991905	2610	0.153968871	0.534541359	3.657664667
124	Glencairn	0.38414	0.33867	0.33867	0.044059847	2610	0.114996201	0.484525124	3.324945111
125	Glencairn	0.51561	0.27084	0.27084	0.037822214	2610	0.098715977	0.387482755	4.462891
126	Glencairn	0.84553	0.27392	0.27392	0.063441948	2610	0.165583483	0.391889219	7.318531889
127	Glencairn	0.23884	0.10235	0.10235	0.002501974	2610	0.006530152	0.146429109	2.067292889
128	Glencairn	0.15156	0.12692	0.12692	0.002441433	2610	0.006372139	0.18158068	1.311836
129	Glencairn	0.13278	0.04902	0.04902	0.000319065	2610	0.00083276	0.07013146	1.149284667
130	Glencairn	0.61823	0.23231	0.23231	0.033364597	2610	0.087081599	0.332359027	5.351124111
131	Glencairn	1.29911	0.92737	0.92737	1.117254239	2610	2.916033563	1.326760753	11.24451878
132	Glencairn	0.18969	0.10989	0.10989	0.002290661	2610	0.005978625	0.157216364	1.641872333
133	Glencairn	0.26091	0.21665	0.21665	0.012246391	2610	0.03196308	0.309954729	2.258321
134	Glencairn	0.18326	0.14591	0.14591	0.003901556	2610	0.01018306	0.208749109	1.586217111
135	Glencairn	0.37661	0.35043	0.35043	0.046248154	2610	0.120707683	0.501349807	3.259768778
136	Glencairn	0.12143	0.06841	0.06841	0.000568284	2610	0.00148322	0.097872158	1.051044111
137	Glencairn	0.10646	0.07045	0.07045	0.000528383	2610	0.001379078	0.100790725	0.921470444
138	Glencairn	0.11178	0.09057	0.09057	0.000916923	2610	0.002393169	0.129575813	0.967518
139	Glencairn	0.0889	0.06762	0.06762	0.000406492	2610	0.001060944	0.096741928	0.769478889
140	Glencairn	0.89961	0.35864	0.35864	0.115710222	2610	0.302003679	0.513095611	7.786624333
141	Glencairn	0.12041	0.10205	0.10205	0.001253974	2610	0.003272872	0.145999908	1.042215444
142	Glencairn	0.16773	0.1275	0.1275	0.002726661	2610	0.007116585	0.182410468	1.451796333
143	Glencairn	0.13685	0.10712	0.10712	0.001570312	2610	0.004098514	0.153253407	1.184512778
144	Glencairn	0.13877	0.0653	0.0653	0.000591728	2610	0.001544409	0.093422773	1.201131444
145	Glencairn	0.18573	0.10188	0.10188	0.001927791	2610	0.005031534	0.145756694	1.607596333
146	Glencairn	0.16173	0.09126	0.09126	0.00134695	2610	0.00351554	0.130562975	1.399863
147	Glencairn	0.16074	0.12732	0.12732	0.002605657	2610	0.006800764	0.182152948	1.391294
148	Glencairn	0.12449	0.10611	0.10611	0.001401674	2610	0.00365837	0.15180843	1.077530111
149	Glencairn	0.24937	0.14579	0.14579	0.005300291	2610	0.013833758	0.208577429	2.158435889
150	Glencairn	0.21878	0.21734	0.21734	0.01033444	2610	0.026972888	0.310941892	1.893662444
151	Glencairn	0.26511	0.1364	0.1364	0.004932361	2610	0.012873462	0.195143434	2.294674333
152	Glencairn	0.2096	0.07712	0.07712	0.001246595	2610	0.003253612	0.110333297	1.814204444
153	Glencairn	0.15819	0.14104	0.14104	0.00314676	2610	0.008213044	0.201781745	1.369222333
154	Glencairn	0.44477	0.23509	0.23509	0.024581241	2610	0.064157038	0.33633629	3.849731444
155	Glencairn	0.11787	0.0682	0.0682	0.000548242	2610	0.001430911	0.097571717	1.020230333
156	Glencairn	0.07028	0.06132	0.06132	0.000264263	2610	0.000689726	0.087728705	0.608312444
157	Glencairn	0.07904	0.04937	0.04937	0.000192652	2610	0.000502821	0.070632195	0.684135111
158	Glencairn	0.07395	0.05808	0.05808	0.000249455	2610	0.000651076	0.083093333	0.640078333
159	Glencairn	0.10614	0.05462	0.05462	0.000316652	2610	0.000826462	0.078143214	0.918700667
160	Glencairn	0.14835	0.03101	0.03101	0.000142656	2610	0.000372333	0.044365087	1.284051667

161	Glencairn	0.44334	0.33429	0.33429	0.049543158	2610	0.129307643	0.478258788	3.837354
162	Glencairn	0.40645	0.25554	0.25554	0.026541466	2610	0.069273227	0.365593499	3.518050556
163	Glencairn	0.24021	0.22858	0.22858	0.012550688	2610	0.032757296	0.327022626	2.079151
164	Glencairn	0.08802	0.06006	0.06006	0.000317506	2610	0.000828691	0.085926061	0.761862
165	Glencairn	0.14614	0.07243	0.07243	0.000766666	2610	0.002000998	0.103623453	1.264922889
166	Glencairn	0.36759	0.17273	0.17273	0.010967288	2610	0.028624621	0.247119688	3.181695667
167	Glencairn	0.18166	0.09836	0.09836	0.001757504	2610	0.004587086	0.140720735	1.572368222
168	Glencairn	0.20207	0.10785	0.10785	0.002350402	2610	0.006134549	0.154297796	1.749028111
169	Glencairn	0.34087	0.08846	0.08846	0.002667366	2610	0.006961826	0.126557098	2.950419222
170	Glencairn	0.29652	0.09561	0.09561	0.00271057	2610	0.007074588	0.136786391	2.566545333
171	Glencairn	0.21789	0.15384	0.15384	0.005156747	2610	0.01345911	0.220094325	1.885959
172	Glencairn	0.11088	0.10936	0.10936	0.001326082	2610	0.003461073	0.156458108	0.959728
173	Glencairn	0.19144	0.12435	0.12435	0.002960222	2610	0.007726179	0.177903857	1.657019556
174	Glencairn	0.15864	0.12169	0.12169	0.002349213	2610	0.006131447	0.174098274	1.373117333
175	Glencairn	0.2054	0.13609	0.13609	0.003804108	2610	0.009928723	0.194699927	1.777851111
176	Glencairn	0.19916	0.10573	0.10573	0.002226376	2610	0.005810842	0.151264775	1.723840444
177	Glencairn	0.11805	0.09764	0.09764	0.001125438	2610	0.002937393	0.139690652	1.021788333
178	Glencairn	0.08908	0.06774	0.06774	0.000408762	2610	0.001066869	0.096913609	0.771036889
179	Glencairn	0.11482	0.06121	0.06121	0.000430192	2610	0.001122801	0.087571331	0.993830889
180	Glencairn	0.09788	0.0681	0.0681	0.000453929	2610	0.001184755	0.09742865	0.847205778
181	Glencairn	0.09104	0.06006	0.06006	0.0003284	2610	0.000857124	0.085926061	0.788001778
182	Glencairn	0.3404	0.06301	0.06301	0.001351477	2610	0.003527354	0.090146538	2.946351111
183	Glencairn	0.14277	0.12479	0.12479	0.002223292	2610	0.005802792	0.178533352	1.235753667
184	Glencairn	0.2374	0.10323	0.10323	0.002529837	2610	0.006602875	0.147688099	2.054828889
185	Glencairn	1.04595	0.62364	0.62364	0.406798038	2610	1.06174288	0.892223251	9.053278333
186	Glencairn	0.25701	0.17073	0.17073	0.007491516	2610	0.019552856	0.244258347	2.224564333
187	Glencairn	0.16899	0.08938	0.08938	0.001350025	2610	0.003523564	0.127873315	1.462702333
188	Glencairn	0.14387	0.06617	0.06617	0.00062993	2610	0.001644118	0.094667456	1.245274778
189	Glencairn	0.10341	0.10018	0.10018	0.001037826	2610	0.002708726	0.143324555	0.895071
190	Glencairn	0.12713	0.04149	0.04149	0.000218844	2610	0.000571183	0.059358512	1.100380778
191	Glencairn	0.63762	0.22356	0.22356	0.031867657	2610	0.083174585	0.319840661	5.518955333
192	Glencairn	0.14103	0.06023	0.06023	0.000511608	2610	0.001335297	0.086169275	1.220693
193	Glencairn	0.2228	0.20075	0.20075	0.008978965	2610	0.023435099	0.287207071	1.928457778
194	Glencairn	0.48646	0.31397	0.31397	0.047953846	2610	0.125159537	0.449187567	4.210581556
195	Glencairn	0.72078	0.3141	0.3141	0.071111297	2610	0.185600485	0.449373554	6.238751333
196	Glencairn	0.21198	0.10893	0.10893	0.002515301	2610	0.006564935	0.15584292	1.834804667
197	Glencairn	0.22753	0.10203	0.10203	0.002368615	2610	0.006182085	0.145971295	1.969398556
198	Glencairn	0.36882	0.14655	0.14655	0.007921111	2610	0.0206741	0.209664738	3.192342
199	Glencairn	0.20077	0.11668	0.11668	0.002733327	2610	0.007133985	0.166930615	1.737775889
200	Glencairn	0.26346	0.11791	0.11791	0.003662823	2610	0.009559969	0.16869034	2.280392667
201	Glencairn	0.19033	0.12601	0.12601	0.003022159	2610	0.007887834	0.18027877	1.647411889
202	Glencairn	0.11588	0.0563	0.0563	0.000367304	2610	0.000958663	0.08054674	1.003005778
203	Glencairn	0.08311	0.06541	0.06541	0.000355583	2610	0.000928073	0.093580147	0.719363222
204	Glencairn	0.18303	0.12118	0.12118	0.002687721	2610	0.007014952	0.173368632	1.584226333
205	Glencairn	0.21815	0.05783	0.05783	0.000729561	2610	0.001904154	0.082735666	1.888209444
206	Glencairn	0.11473	0.10187	0.10187	0.00119061	2610	0.003107493	0.145742388	0.993051889
207	Glencairn	0.08922	0.04176	0.04176	0.000155591	2610	0.000406091	0.059744793	0.772248667
208	Glencairn	0.11034	0.04639	0.04639	0.000237455	2610	0.000619758	0.066368797	0.955054
209	Glencairn	0.25142	0.18341	0.18341	0.008457575	2610	0.02207427	0.262399247	2.176179778
210	Glencairn	0.09421	0.04776	0.04776	0.000214895	2610	0.000560875	0.068328815	0.815439889
211	Glencairn	1.55469	0.50913	0.50913	0.402996414	2610	1.05182064	0.72839719	13.45670567
212	Glencairn	0.43036	0.2015	0.2015	0.017473584	2610	0.045606055	0.288280073	3.725004889

213	Glencairn	0.2015	0.11286	0.11286	0.002566582	2610	0.006698779	0.161465455	1.744094444
214	Glencairn	0.12479	0.09594	0.09594	0.001148628	2610	0.002997918	0.137258512	1.080126778
215	Glencairn	0.19441	0.09266	0.09266	0.00166918	2610	0.00435656	0.132565914	1.682726556
216	Glencairn	0.2385	0.16549	0.16549	0.006531785	2610	0.017047959	0.236761635	2.06435
217	Glencairn	0.31619	0.13802	0.13802	0.006023268	2610	0.015720729	0.19746112	2.736800111
218	Glencairn	0.71322	0.68626	0.68626	0.335892947	2610	0.876680592	0.981811827	6.173315333
219	Glencairn	0.34293	0.18293	0.18293	0.011475599	2610	0.029951312	0.261712525	2.968249667
220	Glencairn	0.17524	0.12241	0.12241	0.002625833	2610	0.006853423	0.175128356	1.516799556
221	Glencairn	0.51491	0.43525	0.43525	0.09754587	2610	0.25459472	0.622699265	4.456832111
222	Glencairn	0.42953	0.24363	0.24363	0.025495001	2610	0.066541952	0.348554215	3.717820778
223	Glencairn	0.35091	0.10085	0.10085	0.003569008	2610	0.009315111	0.144283104	3.037321
224	Glencairn	0.26769	0.25348	0.25348	0.017199647	2610	0.04489108	0.362646318	2.317005667
225	Glencairn	0.61309	0.14146	0.14146	0.012268502	2610	0.03202079	0.202382626	5.306634556
226	Glencairn	0.18295	0.17997	0.17997	0.005925604	2610	0.015465827	0.257477741	1.583533889
227	Glencairn	0.84897	0.44658	0.44658	0.169313225	2610	0.441907518	0.63890876	7.348307
228	Glencairn	0.58615	0.55808	0.55808	0.182558344	2610	0.476477277	0.798428503	5.073453889
229	Glencairn	0.80986	0.29214	0.29214	0.069118133	2610	0.180398327	0.417956033	7.009788222
230	Glencairn	0.4046	0.23224	0.23224	0.02182227	2610	0.056956125	0.33225888	3.502037778
231	Glencairn	1.89394	0.41681	0.41681	0.329035287	2610	0.8587821	0.596317704	16.39310289
232	Glencairn	1.54787	0.49239	0.49239	0.37527785	2610	0.979475188	0.704447769	13.39767478
233	Glencairn	0.6082	0.34263	0.34263	0.071399832	2610	0.186353561	0.490190579	5.264308889
234	Glencairn	0.43711	0.24171	0.24171	0.025537594	2610	0.06665312	0.345807328	3.783429889
1	Misty Cliff	0.15942	0.13737	0.13737	0.003008338	2610	0.007851762	0.196531185	1.379868667
2	Misty Cliff	0.47593	0.25362	0.25362	0.030613295	2610	0.0799007	0.362846612	4.119438556
3	Misty Cliff	0.2104	0.11253	0.11253	0.002664295	2610	0.006953811	0.160993333	1.821128889
4	Misty Cliff	0.15984	0.10887	0.10887	0.001894532	2610	0.004944728	0.15575708	1.383504
5	Misty Cliff	0.20051	0.15468	0.15468	0.004797383	2610	0.012521169	0.221296088	1.735525444
6	Misty Cliff	0.08079	0.04566	0.04566	0.000168434	2610	0.000439612	0.065324408	0.699282333
7	Misty Cliff	0.29062	0.11068	0.11068	0.003560113	2610	0.009291895	0.158346593	2.515477556
8	Misty Cliff	0.10383	0.08998	0.08998	0.000840649	2610	0.002194095	0.128731717	0.898706333
9	Misty Cliff	0.0872	0.08598	0.08598	0.000644631	2610	0.001682488	0.123009036	0.754764444
10	Misty Cliff	0.128	0.06472	0.06472	0.000536151	2610	0.001399354	0.092592984	1.107911111
11	Misty Cliff	0.09383	0.04941	0.04941	0.000229072	2610	0.000597877	0.070689421	0.812150778
12	Misty Cliff	0.0733	0.05898	0.05898	0.000254984	2610	0.000665509	0.084380937	0.634452222
13	Misty Cliff	0.10397	0.08407	0.08407	0.000734836	2610	0.001917921	0.120276455	0.899918111
14	Misty Cliff	0.11106	0.08724	0.08724	0.000845257	2610	0.002206122	0.12481168	0.961286
15	Misty Cliff	0.12705	0.03861	0.03861	0.000189398	2610	0.000494328	0.055238182	1.099688333
16	Misty Cliff	0.09614	0.06547	0.06547	0.000412087	2610	0.001075547	0.093665987	0.832145111
17	Misty Cliff	0.07613	0.04499	0.04499	0.000154095	2610	0.000402187	0.064365859	0.658947444
18	Misty Cliff	0.04652	0.04229	0.04229	8.31984E-05	2610	0.000217148	0.060503049	0.402656444
19	Misty Cliff	0.06895	0.0438	0.0438	0.000132276	2610	0.000345242	0.062663361	0.596800556
20	Misty Cliff	0.04691	0.04042	0.04042	7.66405E-05	2610	0.000200032	0.057827695	0.406032111
21	Misty Cliff	0.03374	0.02255	0.02255	1.71569E-05	2610	4.47794E-05	0.032261616	0.292038444
22	Misty Cliff	0.05532	0.02809	0.02809	4.36501E-05	2610	0.000113927	0.04018753	0.478825333
23	Misty Cliff	0.03189	0.0313	0.0313	3.12423E-05	2610	8.15424E-05	0.044779982	0.276025667
24	Misty Cliff	0.07017	0.03609	0.03609	9.13956E-05	2610	0.000238542	0.051632893	0.607360333
25	Misty Cliff	0.09023	0.02672	0.02672	6.44205E-05	2610	0.000168137	0.038227511	0.780990778
26	Misty Cliff	0.0556	0.02004	0.02004	2.2329E-05	2610	5.82788E-05	0.028670634	0.481248889
27	Misty Cliff	0.03131	0.02232	0.02232	1.55981E-05	2610	4.0711E-05	0.031932562	0.271005444
28	Misty Cliff	0.02814	0.01639	0.01639	7.55931E-06	2610	1.97298E-05	0.023448687	0.243567333
29	Misty Cliff	0.04253	0.02756	0.02756	3.23038E-05	2610	8.4313E-05	0.039429275	0.368120778
30	Misty Cliff	0.0283	0.02515	0.02515	1.79004E-05	2610	4.672E-05	0.035981359	0.244952222

31 Misty Cliff	0.05631	0.02017	0.02017	2.29085E-05	2610	5.97913E-05	0.028856621	0.487394333
32 Misty Cliff	0.04444	0.02461	0.02461	2.69152E-05	2610	7.02486E-05	0.035208797	0.384652889
33 Misty Cliff	0.33718	0.23404	0.23404	0.018468941	2610	0.048203935	0.334834086	2.918480222
34 Misty Cliff	0.24567	0.20248	0.20248	0.010072016	2610	0.026287961	0.28968213	2.126410333
35 Misty Cliff	0.13396	0.11674	0.11674	0.001825637	2610	0.004764914	0.167016455	1.159498222
36 Misty Cliff	0.13058	0.08403	0.08403	0.000922031	2610	0.0024065	0.120219229	1.130242444
37 Misty Cliff	0.06846	0.02929	0.02929	5.87321E-05	2610	0.000153291	0.041904334	0.592559333
38 Misty Cliff	0.0562	0.0607	0.0607	0.000207068	2610	0.000540448	0.08684169	0.486442222
39 Misty Cliff	0.12526	0.05032	0.05032	0.000317171	2610	0.000827817	0.071991331	1.084194889
40 Misty Cliff	0.11768	0.11598	0.11598	0.001582956	2610	0.004131515	0.165929146	1.018585778
41 Misty Cliff	0.09169	0.03806	0.03806	0.000132819	2610	0.000346657	0.054451313	0.793627889
42 Misty Cliff	0.10272	0.05275	0.05275	0.000285825	2610	0.000746003	0.07546786	0.889098667
43 Misty Cliff	0.19738	0.16188	0.16188	0.005172369	2610	0.013499884	0.231596915	1.708433556
44 Misty Cliff	0.12747	0.06254	0.06254	0.000498567	2610	0.001301261	0.089474123	1.103323667
45 Misty Cliff	0.07577	0.03593	0.03593	9.78164E-05	2610	0.000255301	0.051403985	0.655831444
46 Misty Cliff	0.10764	0.07922	0.07922	0.000675528	2610	0.001763128	0.113337704	0.931684
47 Misty Cliff	0.1426	0.11049	0.11049	0.001740867	2610	0.004543662	0.158074766	1.234282222
48 Misty Cliff	0.15865	0.09891	0.09891	0.001552103	2610	0.004050988	0.141507603	1.373203889
49 Misty Cliff	0.14681	0.10893	0.10893	0.00174201	2610	0.004546646	0.15584292	1.270722111
50 Misty Cliff	0.25365	0.19378	0.19378	0.009524732	2610	0.024859551	0.277235298	2.195481667
51 Misty Cliff	0.24071	0.12799	0.12799	0.003943176	2610	0.010291691	0.183111497	2.083478778
52 Misty Cliff	0.13235	0.11326	0.11326	0.001697763	2610	0.004431161	0.162037723	1.145562778
53 Misty Cliff	0.20108	0.11496	0.11496	0.002657433	2610	0.006935901	0.164469862	1.740459111
54 Misty Cliff	0.12951	0.0605	0.0605	0.000474039	2610	0.001237242	0.086555556	1.120981
55 Misty Cliff	0.06266	0.03651	0.03651	8.35245E-05	2610	0.000217999	0.052233774	0.542357111
56 Misty Cliff	0.20699	0.12373	0.12373	0.003168833	2610	0.008270655	0.177016841	1.791613444
57 Misty Cliff	0.17865	0.07417	0.07417	0.000982787	2610	0.002565075	0.106112819	1.546315
58 Misty Cliff	0.12821	0.11723	0.11723	0.001761974	2610	0.004598751	0.167717484	1.109728778
59 Misty Cliff	0.08457	0.06739	0.06739	0.000384067	2610	0.001002415	0.096412874	0.732000333
60 Misty Cliff	0.11407	0.06167	0.06167	0.00043383	2610	0.001132296	0.08822944	0.987339222
61 Misty Cliff	0.08553	0.04922	0.04922	0.000207206	2610	0.000540807	0.070417594	0.740309667
62 Misty Cliff	0.10814	0.04798	0.04798	0.000248947	2610	0.000649752	0.068643563	0.936011778
63 Misty Cliff	0.07427	0.03788	0.03788	0.00010657	2610	0.000278147	0.054193792	0.642848111
64 Misty Cliff	0.06701	0.06245	0.06245	0.000261339	2610	0.000682095	0.089345363	0.580008778
65 Misty Cliff	0.15796	0.05082	0.05082	0.000407959	2610	0.001064773	0.072706667	1.367231556
66 Misty Cliff	0.15758	0.09873	0.09873	0.001536029	2610	0.004009035	0.141250083	1.363942444
67 Misty Cliff	0.15931	0.09729	0.09729	0.001507924	2610	0.003935682	0.139189917	1.378916556
68 Misty Cliff	0.10498	0.06565	0.06565	0.000452456	2610	0.001180909	0.093923508	0.908660222
69 Misty Cliff	0.13573	0.05096	0.05096	0.00035248	2610	0.000919973	0.072906961	1.174818556
70 Misty Cliff	0.1072	0.08456	0.08456	0.000766522	2610	0.002000623	0.120977484	0.927875556
71 Misty Cliff	0.13177	0.12601	0.12601	0.002092313	2610	0.005460936	0.18027877	1.140542556
72 Misty Cliff	0.20045	0.0959	0.0959	0.001843501	2610	0.004811536	0.137201286	1.735006111
73 Misty Cliff	0.22086	0.07465	0.07465	0.001230769	2610	0.003212308	0.106799541	1.911666
74 Misty Cliff	0.08528	0.06164	0.06164	0.00032402	2610	0.000845693	0.08818652	0.738145778
75 Misty Cliff	0.49774	0.32912	0.32912	0.053915184	2610	0.14071863	0.470862222	4.308216222
76 Misty Cliff	0.17615	0.07323	0.07323	0.000944628	2610	0.002465479	0.104767989	1.524676111
77 Misty Cliff	0.07224	0.04305	0.04305	0.000133883	2610	0.000349434	0.061590358	0.625277333
78 Misty Cliff	0.09698	0.03715	0.03715	0.000133844	2610	0.000349334	0.053149403	0.839415778
79 Misty Cliff	0.12668	0.06613	0.06613	0.000553994	2610	0.001445924	0.09461023	1.096485778
80 Misty Cliff	0.07479	0.06339	0.06339	0.000300528	2610	0.000784378	0.090690193	0.647349
81 Misty Cliff	0.14365	0.1054	0.1054	0.001595831	2610	0.004165118	0.150792654	1.243370556
82 Misty Cliff	0.10063	0.05499	0.05499	0.000304295	2610	0.00079421	0.078672562	0.871008556

83 Misty Cliff	0.16364	0.15602	0.15602	0.003983364	2610	0.010396581	0.223213186	1.416395111
84 Misty Cliff	0.18972	0.13085	0.13085	0.003248333	2610	0.00847815	0.187203214	1.642132
85 Misty Cliff	0.09345	0.03897	0.03897	0.000141919	2610	0.000370408	0.055753223	0.808861667
86 Misty Cliff	0.11276	0.02816	0.02816	8.94171E-05	2610	0.000233379	0.040287677	0.976000444
87 Misty Cliff	0.07572	0.02183	0.02183	3.60843E-05	2610	9.418E-05	0.031231534	0.655398667
88 Misty Cliff	0.105	0.05308	0.05308	0.000295836	2610	0.000772132	0.075939982	0.908833333
89 Misty Cliff	0.07153	0.02951	0.02951	6.22912E-05	2610	0.00016258	0.042219082	0.619131889
90 Misty Cliff	0.03894	0.02614	0.02614	2.66077E-05	2610	6.94461E-05	0.037397723	0.337047333
91 Misty Cliff	0.09996	0.03595	0.03595	0.000129189	2610	0.000337182	0.051432599	0.865209333
92 Misty Cliff	0.10456	0.02353	0.02353	5.78908E-05	2610	0.000151095	0.033663673	0.905024889
93 Misty Cliff	0.09389	0.03971	0.03971	0.000148054	2610	0.00038642	0.056811919	0.812670111
94 Misty Cliff	0.10622	0.04446	0.04446	0.000209964	2610	0.000548007	0.063607603	0.919393111
95 Misty Cliff	0.1336	0.08955	0.08955	0.001071365	2610	0.002796264	0.128116529	1.156382222
96 Misty Cliff	0.14113	0.09646	0.09646	0.001313149	2610	0.003427318	0.138002461	1.221558556
97 Misty Cliff	0.08952	0.06978	0.06978	0.000435895	2610	0.001137686	0.099832176	0.774845333
98 Misty Cliff	0.11511	0.08353	0.08353	0.000803153	2610	0.002096228	0.119503893	0.996341
99 Misty Cliff	0.21243	0.07987	0.07987	0.001355137	2610	0.003536908	0.11426764	1.838699667
100 Misty Cliff	0.25162	0.16911	0.16911	0.007195877	2610	0.018781239	0.241940661	2.177910889
101 Misty Cliff	0.13563	0.10204	0.10204	0.001412201	2610	0.003685846	0.145985601	1.173953
102 Misty Cliff	0.15205	0.05103	0.05103	0.000395947	2610	0.001033423	0.073007107	1.316077222
103 Misty Cliff	0.14401	0.09917	0.09917	0.001416294	2610	0.003696526	0.141879578	1.246486556
104 Misty Cliff	0.44575	0.17818	0.17818	0.014151721	2610	0.036935992	0.254916841	3.858213889
105 Misty Cliff	0.06878	0.05304	0.05304	0.000193495	2610	0.000505021	0.075882755	0.595329111
106 Misty Cliff	0.15407	0.06731	0.06731	0.000698035	2610	0.001821872	0.096298421	1.333561444
107 Misty Cliff	0.16842	0.1677	0.1677	0.004736525	2610	0.012362329	0.239923416	1.457768667
108 Misty Cliff	0.16148	0.06954	0.06954	0.000780887	2610	0.002038115	0.099488815	1.397699111
109 Misty Cliff	0.12667	0.06267	0.06267	0.0004975	2610	0.001298475	0.08966011	1.096399222
110 Misty Cliff	0.06079	0.04814	0.04814	0.000140878	2610	0.000367693	0.06887247	0.526171222
111 Misty Cliff	0.1128	0.05673	0.05673	0.000363023	2610	0.000947491	0.081161928	0.976346667
112 Misty Cliff	0.27629	0.24752	0.24752	0.016927225	2610	0.044180056	0.354119522	2.391443444
113 Misty Cliff	0.38982	0.24659	0.24659	0.02370364	2610	0.0618665	0.352788999	3.374108667
114 Misty Cliff	0.23123	0.16076	0.16076	0.005975857	2610	0.015596986	0.229994564	2.001424111
115 Misty Cliff	0.10114	0.06382	0.06382	0.000411942	2610	0.00107517	0.091305381	0.875422889
116 Misty Cliff	0.34718	0.17052	0.17052	0.010094977	2610	0.026347891	0.243957906	3.005035778
117 Misty Cliff	0.14273	0.1237	0.1237	0.00218401	2610	0.005700267	0.176973921	1.235407444
118 Misty Cliff	0.12581	0.12107	0.12107	0.001844116	2610	0.004813143	0.173211258	1.088955444
119 Misty Cliff	0.10827	0.10277	0.10277	0.001143512	2610	0.002984567	0.147029991	0.937137
120 Misty Cliff	0.14539	0.08848	0.08848	0.001138216	2610	0.002970744	0.126585712	1.258431222
121 Misty Cliff	0.12104	0.06309	0.06309	0.000481781	2610	0.001257449	0.090260992	1.047668444
122 Misty Cliff	0.19869	0.10153	0.10153	0.002048164	2610	0.005345709	0.14525596	1.719772333
123 Misty Cliff	0.25101	0.13564	0.13564	0.004618135	2610	0.012053331	0.194056125	2.172631
124 Misty Cliff	0.07824	0.07673	0.07673	0.000460637	2610	0.001202264	0.109775335	0.677210667
125 Misty Cliff	0.19317	0.09824	0.09824	0.001864303	2610	0.00486583	0.140549054	1.671993667
126 Misty Cliff	0.08339	0.0318	0.0318	8.43273E-05	2610	0.000220094	0.045495317	0.721786778
127 Misty Cliff	0.09619	0.04387	0.04387	0.000185125	2610	0.000483176	0.062763508	0.832577889
128 Misty Cliff	0.16588	0.14562	0.14562	0.003517516	2610	0.009180717	0.208334215	1.435783556
129 Misty Cliff	0.13926	0.0945	0.0945	0.001243627	2610	0.003245865	0.135198347	1.205372667
130 Misty Cliff	0.13805	0.06812	0.06812	0.000640598	2610	0.001671961	0.097457264	1.194899444
131 Misty Cliff	0.14457	0.06361	0.06361	0.000584964	2610	0.001526755	0.09100494	1.251333667
132 Misty Cliff	0.0705	0.06474	0.06474	0.000295484	2610	0.000771214	0.092621598	0.610216667
133 Misty Cliff	0.1633	0.03261	0.03261	0.000173655	2610	0.00045324	0.04665416	1.413452222
134 Misty Cliff	0.21344	0.12664	0.12664	0.003423084	2610	0.00893425	0.181180092	1.847441778

135 Misty Cliff	0.12814	0.12275	0.12275	0.001930757	2610	0.005039277	0.175614784	1.109122889
136 Misty Cliff	0.07456	0.05087	0.05087	0.000192943	2610	0.000503582	0.0727782	0.645358222
137 Misty Cliff	0.15852	0.08245	0.08245	0.001077619	2610	0.002812587	0.11795877	1.372078667
138 Misty Cliff	0.10648	0.04956	0.04956	0.000261535	2610	0.000682608	0.070904022	0.921643556
139 Misty Cliff	0.13164	0.05716	0.05716	0.000430103	2610	0.001122568	0.081777117	1.139417333
140 Misty Cliff	0.0922	0.04414	0.04414	0.000179637	2610	0.000468852	0.063149789	0.798042222
141 Misty Cliff	0.10245	0.05417	0.05417	0.000300628	2610	0.000784639	0.077499412	0.886761667
142 Misty Cliff	0.19729	0.17467	0.17467	0.006019241	2610	0.015710218	0.249895188	1.707654556
143 Misty Cliff	0.09249	0.07136	0.07136	0.000470982	2610	0.001229263	0.102092635	0.800552333
144 Misty Cliff	0.09508	0.05733	0.05733	0.000312502	2610	0.000815631	0.082020331	0.822970222
145 Misty Cliff	0.16563	0.10276	0.10276	0.001748989	2610	0.004564862	0.147015684	1.433619667
146 Misty Cliff	0.16443	0.0863	0.0863	0.001224624	2610	0.003196268	0.12346685	1.423233
147 Misty Cliff	0.09099	0.02501	0.02501	5.69143E-05	2610	0.000148546	0.035781065	0.787569
148 Misty Cliff	0.06722	0.03067	0.03067	6.32304E-05	2610	0.000165031	0.043878659	0.581826444
149 Misty Cliff	0.13539	0.05887	0.05887	0.000469218	2610	0.001224659	0.084223563	1.171875667
150 Misty Cliff	0.34952	0.08095	0.08095	0.00229037	2610	0.005977867	0.115812764	3.025289778
151 Misty Cliff	0.10875	0.0516	0.0516	0.000289553	2610	0.000755734	0.07382259	0.941291667
152 Misty Cliff	0.09378	0.05653	0.05653	0.000299687	2610	0.000782184	0.080875794	0.811718
153 Misty Cliff	0.05817	0.03703	0.03703	7.97639E-05	2610	0.000208184	0.052977723	0.503493667
154 Misty Cliff	0.14986	0.06256	0.06256	0.000586515	2610	0.001530804	0.089502736	1.297121556
155 Misty Cliff	0.11714	0.06238	0.06238	0.000455823	2610	0.001189697	0.089245216	1.013911778
156 Misty Cliff	0.1326	0.03905	0.03905	0.000202202	2610	0.000527747	0.055867677	1.147726667
157 Misty Cliff	0.07131	0.0316	0.0316	7.12073E-05	2610	0.000185851	0.045209183	0.617227667
158 Misty Cliff	0.06483	0.04859	0.04859	0.000153063	2610	0.000399494	0.069516272	0.561139667
159 Misty Cliff	0.20497	0.15258	0.15258	0.004771836	2610	0.012454492	0.21829168	1.774129222
160 Misty Cliff	0.05937	0.03988	0.03988	9.44229E-05	2610	0.000246444	0.057055133	0.513880333
161 Misty Cliff	0.04712	0.04347	0.04347	8.90399E-05	2610	0.000232394	0.06219124	0.407849778
162 Misty Cliff	0.08957	0.03023	0.03023	8.18538E-05	2610	0.000213638	0.043249164	0.775278111
163 Misty Cliff	0.1343	0.08253	0.08253	0.000914744	2610	0.002387483	0.118073223	1.162441111
164 Misty Cliff	0.09042	0.04989	0.04989	0.000225056	2610	0.000587397	0.071376143	0.782635333
165 Misty Cliff	0.05056	0.02817	0.02817	4.01218E-05	2610	0.000104718	0.040301983	0.437624889
166 Misty Cliff	0.13208	0.1253	0.1253	0.002073668	2610	0.005412273	0.179262994	1.143225778
167 Misty Cliff	0.09801	0.08024	0.08024	0.000631033	2610	0.001646997	0.114796988	0.848331
168 Misty Cliff	0.08729	0.07106	0.07106	0.000440773	2610	0.001150417	0.101663434	0.755543444
169 Misty Cliff	0.11082	0.09225	0.09225	0.000943085	2610	0.002461452	0.131979339	0.959208667
170 Misty Cliff	0.09242	0.0857	0.0857	0.000678778	2610	0.00177161	0.122608448	0.799946444
171 Misty Cliff	0.14457	0.06738	0.06738	0.000656357	2610	0.001713092	0.096398567	1.251333667
172 Misty Cliff	0.07915	0.05809	0.05809	0.000267088	2610	0.000697099	0.08310764	0.685087222
173 Misty Cliff	0.0479	0.03826	0.03826	7.01173E-05	2610	0.000183006	0.054737447	0.414601111
174 Misty Cliff	0.13046	0.0588	0.0588	0.000451058	2610	0.00117726	0.084123416	1.129203778
175 Misty Cliff	0.08505	0.04976	0.04976	0.000210589	2610	0.000549637	0.071190156	0.736155
176 Misty Cliff	0.1053	0.05805	0.05805	0.00035484	2610	0.000926133	0.083050413	0.91143
177 Misty Cliff	0.1367	0.1035	0.1035	0.001464365	2610	0.003821992	0.14807438	1.183214444
178 Misty Cliff	0.07453	0.07122	0.07122	0.000378038	2610	0.000986678	0.101892342	0.645098556
179 Misty Cliff	0.05015	0.03985	0.03985	7.96393E-05	2610	0.000207859	0.057012213	0.434076111
180 Misty Cliff	0.0441	0.03936	0.03936	6.83201E-05	2610	0.000178316	0.056311185	0.38171
181 Misty Cliff	0.16535	0.04705	0.04705	0.000366036	2610	0.000955353	0.067313039	1.431196111
182 Misty Cliff	0.13029	0.08722	0.08722	0.000991159	2610	0.002586925	0.124783067	1.127732333
183 Misty Cliff	0.0939	0.09017	0.09017	0.000763466	2610	0.001992646	0.129003545	0.812756667
184 Misty Cliff	0.08701	0.06256	0.06256	0.000340536	2610	0.000888798	0.089502736	0.753119889
185 Misty Cliff	0.06139	0.05624	0.05624	0.000194173	2610	0.000506791	0.0804609	0.531364556
186 Misty Cliff	0.19217	0.06065	0.06065	0.000706882	2610	0.001844963	0.086770156	1.663338111

187 Misty Cliff	0.13673	0.06826	0.06826	0.000637084	2610	0.001662788	0.097657557	1.183474111
188 Misty Cliff	0.15004	0.03361	0.03361	0.00016949	2610	0.000442369	0.04808483	1.298679556
189 Misty Cliff	0.06426	0.0356	0.0356	8.14406E-05	2610	0.00021256	0.050931864	0.556206
190 Misty Cliff	0.20389	0.18943	0.18943	0.007316333	2610	0.019095628	0.271011882	1.764781222
191 Misty Cliff	0.08708	0.04351	0.04351	0.000164853	2610	0.000430266	0.062248466	0.753725778
192 Misty Cliff	0.07693	0.05165	0.05165	0.000205228	2610	0.000535645	0.073894123	0.665871889
193 Misty Cliff	0.11024	0.03203	0.03203	0.000113098	2610	0.000295185	0.045824371	0.954188444
194 Misty Cliff	0.12026	0.10661	0.10661	0.001366838	2610	0.003567448	0.152523765	1.040917111
195 Misty Cliff	0.10385	0.07204	0.07204	0.000538957	2610	0.001406677	0.103065491	0.898879444
196 Misty Cliff	0.13597	0.09158	0.09158	0.001140366	2610	0.002976356	0.13102079	1.176895889
197 Misty Cliff	0.18821	0.08932	0.08932	0.001501551	2610	0.003919048	0.127787475	1.629062111
198 Misty Cliff	0.13066	0.12027	0.12027	0.00188998	2610	0.004932849	0.172066722	1.130934889
199 Misty Cliff	0.2723	0.26525	0.26525	0.019158364	2610	0.050003331	0.379485308	2.356907778
200 Misty Cliff	0.08988	0.05538	0.05538	0.000275657	2610	0.000719465	0.079230523	0.777961333
201 Misty Cliff	0.1011	0.02831	0.02831	8.10272E-05	2610	0.000211481	0.040502277	0.875076667
202 Misty Cliff	0.04812	0.03646	0.03646	6.39674E-05	2610	0.000166955	0.052162241	0.416505333
203 Misty Cliff	0.15055	0.06552	0.06552	0.000646292	2610	0.001686821	0.093737521	1.303093889
204 Misty Cliff	0.08794	0.07496	0.07496	0.000494135	2610	0.001289692	0.107243049	0.761169556
205 Misty Cliff	0.13366	0.0345	0.0345	0.000159089	2610	0.000415222	0.049358127	1.156901556
206 Misty Cliff	0.07013	0.06541	0.06541	0.000300049	2610	0.000783128	0.093580147	0.607014111
207 Misty Cliff	0.13772	0.05899	0.05899	0.000479241	2610	0.001250819	0.084395243	1.192043111
208 Misty Cliff	0.06152	0.05682	0.05682	0.000198618	2610	0.000518393	0.081290689	0.532489778
209 Misty Cliff	0.12001	0.10419	0.10419	0.001302775	2610	0.003400244	0.149061543	1.038753222
210 Misty Cliff	0.12575	0.05706	0.05706	0.000409422	2610	0.001068592	0.08163405	1.088436111
211 Misty Cliff	0.07751	0.06137	0.06137	0.000291924	2610	0.000761922	0.087800239	0.670892111
212 Misty Cliff	0.05224	0.03916	0.03916	8.01103E-05	2610	0.000209088	0.056025051	0.452166222
213 Misty Cliff	0.09373	0.04971	0.04971	0.000231615	2610	0.000604514	0.071118623	0.811285222
214 Misty Cliff	0.05948	0.03012	0.03012	5.39611E-05	2610	0.000140839	0.043091791	0.514832444
215 Misty Cliff	0.06632	0.0522	0.0522	0.000180711	2610	0.000471657	0.074680992	0.574036444
216 Misty Cliff	0.08644	0.07014	0.07014	0.000425252	2610	0.001109908	0.100347218	0.748186222
217 Misty Cliff	0.16268	0.12518	0.12518	0.002549201	2610	0.006653414	0.179091313	1.408085778
218 Misty Cliff	0.10042	0.08566	0.08566	0.000736845	2610	0.001923166	0.122551221	0.869190889
219 Misty Cliff	0.07101	0.04628	0.04628	0.000152092	2610	0.00039696	0.066211423	0.614631
220 Misty Cliff	0.06943	0.05229	0.05229	0.000189839	2610	0.000495479	0.074809752	0.600955222
221 Misty Cliff	0.0727	0.03064	0.03064	6.82515E-05	2610	0.000178136	0.043835739	0.629258889
222 Misty Cliff	0.06632	0.0504	0.0504	0.000168463	2610	0.00043969	0.072105785	0.574036444
223 Misty Cliff	0.09921	0.0226	0.0226	5.06725E-05	2610	0.000132255	0.03233315	0.858717667
224 Misty Cliff	0.07568	0.03453	0.03453	9.02348E-05	2610	0.000235513	0.049401047	0.655052444
225 Misty Cliff	0.06295	0.0288	0.0288	5.22132E-05	2610	0.000136277	0.041203306	0.544867222
226 Misty Cliff	0.13655	0.0714	0.0714	0.000696126	2610	0.00181689	0.102149862	1.181916111
227 Misty Cliff	0.25458	0.10396	0.10396	0.00275142	2610	0.007181205	0.148732489	2.203531333
228 Misty Cliff	0.07424	0.01947	0.01947	2.8143E-05	2610	7.34531E-05	0.027855152	0.642588444
229 Misty Cliff	0.09078	0.04512	0.04512	0.000184811	2610	0.000482357	0.064551846	0.785751333
230 Misty Cliff	0.08145	0.04508	0.04508	0.000165523	2610	0.000432016	0.064494619	0.704995
231 Misty Cliff	0.07721	0.02693	0.02693	5.59946E-05	2610	0.000146146	0.038527952	0.668295444
232 Misty Cliff	0.04207	0.02029	0.02029	1.73196E-05	2610	4.5204E-05	0.029028301	0.364139222
233 Misty Cliff	0.05387	0.02366	0.02366	3.01562E-05	2610	7.87077E-05	0.03384966	0.466274778
234 Misty Cliff	0.04349	0.01707	0.01707	1.26723E-05	2610	3.30748E-05	0.024421543	0.376430111
235 Misty Cliff	0.05752	0.02577	0.02577	3.81986E-05	2610	9.96984E-05	0.036868375	0.497867556
236 Misty Cliff	0.07908	0.05898	0.05898	0.000275091	2610	0.000717987	0.084380937	0.684481333
237 Misty Cliff	0.101	0.06699	0.06699	0.000453254	2610	0.001182992	0.095840606	0.874211111
238 Misty Cliff	0.05534	0.04576	0.04576	0.000115881	2610	0.000302449	0.065467475	0.478998444

239 Misty Cliff	0.14437	0.07236	0.07236	0.000755917	2610	0.001972943	0.103523306	1.249602556
240 Misty Cliff	0.06813	0.04853	0.04853	0.000160457	2610	0.000418793	0.069430432	0.589703
241 Misty Cliff	0.10042	0.04316	0.04316	0.000187061	2610	0.000488229	0.061747732	0.869190889
242 Misty Cliff	0.09252	0.04582	0.04582	0.000194243	2610	0.000506975	0.065553315	0.800812
243 Misty Cliff	0.12405	0.07446	0.07446	0.000687769	2610	0.001795078	0.106527713	1.073721667
244 Misty Cliff	0.11716	0.04567	0.04567	0.000244366	2610	0.000637796	0.065338714	1.014084889
245 Misty Cliff	0.08623	0.05847	0.05847	0.000294798	2610	0.000769423	0.083651295	0.746368556
246 Misty Cliff	0.06365	0.05886	0.05886	0.000220515	2610	0.000575545	0.084209256	0.550926111
247 Misty Cliff	0.06224	0.05024	0.05024	0.000157097	2610	0.000410024	0.071876878	0.538721778
248 Misty Cliff	0.05168	0.04952	0.04952	0.000126731	2610	0.000330769	0.070846795	0.447319111
249 Misty Cliff	0.05546	0.03997	0.03997	8.86029E-05	2610	0.000231254	0.057183893	0.480037111
250 Misty Cliff	0.04771	0.02093	0.02093	2.09001E-05	2610	5.45492E-05	0.02994393	0.412956556
251 Misty Cliff	0.09841	0.04009	0.04009	0.000158165	2610	0.000412812	0.057355574	0.851793222
252 Misty Cliff	0.05547	0.02709	0.02709	4.07077E-05	2610	0.000106247	0.03875686	0.480123667
253 Misty Cliff	0.11881	0.06296	0.06296	0.000470958	2610	0.001229201	0.090075005	1.028366556
254 Misty Cliff	0.04451	0.01433	0.01433	9.14008E-06	2610	2.38556E-05	0.020501506	0.385258778
255 Misty Cliff	0.06641	0.02178	0.02178	3.15028E-05	2610	8.22223E-05	0.03116	0.574815444
256 Misty Cliff	0.03142	0.02938	0.02938	2.71213E-05	2610	7.07865E-05	0.042033095	0.271957556
257 Misty Cliff	0.09051	0.05837	0.05837	0.000308373	2610	0.000804853	0.083508228	0.783414333
258 Misty Cliff	0.0674	0.07678	0.07678	0.000397334	2610	0.001037043	0.109846869	0.583384444
259 Misty Cliff	0.06438	0.0269	0.0269	4.6586E-05	2610	0.000121589	0.038485032	0.557244667
260 Misty Cliff	0.05956	0.05296	0.05296	0.000167052	2610	0.000436005	0.075768301	0.515524889
261 Misty Cliff	0.06183	0.04598	0.04598	0.000130719	2610	0.000341175	0.065782222	0.535173
262 Misty Cliff	0.13066	0.0871	0.0871	0.00099124	2610	0.002587137	0.124611387	1.130934889
263 Misty Cliff	0.06728	0.03731	0.03731	9.36562E-05	2610	0.000244443	0.05337831	0.582345778
264 Misty Cliff	0.09156	0.05928	0.05928	0.000321753	2610	0.000839774	0.084810138	0.792502667
265 Misty Cliff	0.25686	0.12672	0.12672	0.004124647	2610	0.010765329	0.181294545	2.223266
266 Misty Cliff	0.10247	0.06292	0.06292	0.000405671	2610	0.001058802	0.090017778	0.886934778
267 Misty Cliff	0.08241	0.04617	0.04617	0.000175671	2610	0.000458501	0.06605405	0.713304333
268 Misty Cliff	0.11063	0.05758	0.05758	0.000366789	2610	0.000957319	0.082377998	0.957564111
269 Misty Cliff	0.13764	0.05568	0.05568	0.00042672	2610	0.00111374	0.079659725	1.191350667
270 Misty Cliff	0.10008	0.0423	0.0423	0.000179072	2610	0.000467378	0.060517355	0.866248
271 Misty Cliff	0.17504	0.11055	0.11055	0.002139217	2610	0.005583356	0.158160606	1.515068444
272 Misty Cliff	0.10079	0.06837	0.06837	0.000471139	2610	0.001229672	0.097814931	0.872393444
273 Misty Cliff	0.07966	0.06522	0.06522	0.000338846	2610	0.000884387	0.09330832	0.689501556
274 Misty Cliff	0.12039	0.05323	0.05323	0.000341117	2610	0.000890315	0.076154582	1.042042333
275 Misty Cliff	0.14369	0.04974	0.04974	0.000355499	2610	0.000927852	0.071161543	1.243716778
276 Misty Cliff	0.07574	0.0539	0.0539	0.000220041	2610	0.000574306	0.077113131	0.655571778
277 Misty Cliff	0.07046	0.06088	0.06088	0.000261151	2610	0.000681604	0.08709921	0.609870444
278 Misty Cliff	0.09552	0.06224	0.06224	0.000370027	2610	0.000965771	0.089044922	0.826778667
279 Misty Cliff	0.16078	0.06348	0.06348	0.000647897	2610	0.001691011	0.090818953	1.391640222
280 Misty Cliff	0.0699	0.05898	0.05898	0.000243157	2610	0.00063464	0.084380937	0.605023333
281 Misty Cliff	0.09447	0.03758	0.03758	0.000133416	2610	0.000348215	0.053764591	0.817690333
282 Misty Cliff	0.05092	0.0404	0.0404	8.31096E-05	2610	0.000216916	0.057799082	0.440740889
283 Misty Cliff	0.08337	0.06492	0.06492	0.000351372	2610	0.00091708	0.092879118	0.721613667
284 Misty Cliff	0.10162	0.07784	0.07784	0.000615722	2610	0.001607035	0.111363379	0.879577556
285 Misty Cliff	0.08477	0.05187	0.05187	0.000228073	2610	0.000595272	0.074208871	0.733731444
286 Misty Cliff	0.09212	0.06336	0.06336	0.000369815	2610	0.000965217	0.090647273	0.797349778
287 Misty Cliff	0.12066	0.05248	0.05248	0.000332316	2610	0.000867344	0.075081579	1.044379333
288 Misty Cliff	0.09936	0.06092	0.06092	0.000368749	2610	0.000962436	0.087156437	0.860016
289 Misty Cliff	0.10825	0.07587	0.07587	0.000623115	2610	0.00162633	0.108544959	0.936963889
290 Misty Cliff	0.1211	0.04429	0.04429	0.00023755	2610	0.000620006	0.063364389	1.048187778

291 Misty Cliff	0.11627	0.09059	0.09059	0.000954175	2610	0.002490398	0.129604426	1.006381444
292 Misty Cliff	0.06443	0.05978	0.05978	0.00023025	2610	0.000600953	0.085525473	0.557677444
293 Misty Cliff	0.08401	0.0715	0.0715	0.00042948	2610	0.001120943	0.102292929	0.727153222
294 Misty Cliff	0.08329	0.06473	0.06473	0.000348983	2610	0.000910845	0.092607291	0.720921222
295 Misty Cliff	0.04201	0.03674	0.03674	5.67063E-05	2610	0.000148003	0.052562828	0.363619889
296 Misty Cliff	0.10851	0.06124	0.06124	0.000406949	2610	0.001062137	0.087614252	0.939214333
297 Misty Cliff	0.0639	0.05099	0.05099	0.000166139	2610	0.000433622	0.072949881	0.55309
298 Misty Cliff	0.04671	0.02944	0.02944	4.04842E-05	2610	0.000105664	0.042118935	0.404301
299 Misty Cliff	0.09177	0.09082	0.09082	0.000756944	2610	0.001975624	0.12993348	0.794320333
300 Misty Cliff	0.13093	0.05969	0.05969	0.00046649	2610	0.001217539	0.085396713	1.133271889
301 Misty Cliff	0.16232	0.12057	0.12057	0.002359666	2610	0.006158729	0.172495923	1.404969778
302 Misty Cliff	0.10836	0.07324	0.07324	0.000581254	2610	0.001517072	0.104782296	0.937916
303 Misty Cliff	0.12276	0.0812	0.0812	0.000809411	2610	0.002112562	0.116170432	1.062556
304 Misty Cliff	0.11526	0.0885	0.0885	0.000902745	2610	0.002356165	0.126614325	0.997639333
305 Misty Cliff	0.07431	0.059	0.059	0.000258673	2610	0.000675137	0.08440955	0.643194333
306 Misty Cliff	0.1311	0.06776	0.06776	0.000601935	2610	0.00157105	0.096942222	1.134743333
307 Misty Cliff	0.10646	0.02199	0.02199	5.14798E-05	2610	0.000134362	0.031460441	0.921470444
308 Misty Cliff	0.07886	0.0525	0.0525	0.000217358	2610	0.000567304	0.075110193	0.682577111
309 Misty Cliff	0.16128	0.12759	0.12759	0.002625511	2610	0.006852583	0.182539229	1.395968
310 Misty Cliff	0.16455	0.11256	0.11256	0.002084808	2610	0.005441349	0.161036253	1.424271667
311 Misty Cliff	0.11649	0.03673	0.03673	0.000157156	2610	0.000410177	0.052548522	1.008285667
312 Misty Cliff	0.05643	0.03834	0.03834	8.29496E-05	2610	0.000216498	0.054851901	0.488433
313 Misty Cliff	0.08589	0.02766	0.02766	6.57123E-05	2610	0.000171509	0.039572342	0.743425667
314 Misty Cliff	0.04575	0.04123	0.04123	7.7771E-05	2610	0.000202982	0.058986538	0.395991667
315 Misty Cliff	0.12969	0.05693	0.05693	0.000420329	2610	0.001097057	0.081448062	1.122539
316 Misty Cliff	0.14936	0.0917	0.0917	0.001255952	2610	0.003278034	0.13119247	1.292793778
317 Misty Cliff	0.11404	0.06761	0.06761	0.00052129	2610	0.001360566	0.096727622	0.987079556
318 Misty Cliff	0.07267	0.04292	0.04292	0.000133867	2610	0.000349394	0.061404371	0.628999222
319 Misty Cliff	0.08032	0.04048	0.04048	0.000131615	2610	0.000343515	0.057913535	0.695214222
320 Misty Cliff	0.11852	0.06822	0.06822	0.000551588	2610	0.001439646	0.097600331	1.025856444
321 Misty Cliff	0.03772	0.01971	0.01971	1.46536E-05	2610	3.82459E-05	0.028198512	0.326487556
322 Misty Cliff	0.04938	0.01935	0.01935	1.8489E-05	2610	4.82562E-05	0.027683471	0.427411333
323 Misty Cliff	0.03797	0.02099	0.02099	1.67288E-05	2610	4.36622E-05	0.03002977	0.328651444
324 Misty Cliff	0.08409	0.05502	0.05502	0.000254557	2610	0.000664395	0.078715482	0.727845667
325 Misty Cliff	0.06197	0.0425	0.0425	0.000111933	2610	0.000292146	0.060803489	0.536384778
326 Misty Cliff	0.06343	0.03505	0.03505	7.79239E-05	2610	0.000203381	0.050144995	0.549021889
327 Misty Cliff	0.05848	0.04112	0.04112	9.88812E-05	2610	0.00025808	0.058829164	0.506176889
328 Misty Cliff	0.09594	0.05766	0.05766	0.000318969	2610	0.00083251	0.082492452	0.830414
329 Misty Cliff	0.081	0.03717	0.03717	0.00011191	2610	0.000292086	0.053178017	0.7011
330 Misty Cliff	0.10283	0.04629	0.04629	0.00022034	2610	0.000575089	0.06622573	0.890050778
331 Misty Cliff	0.10107	0.07244	0.07244	0.00053037	2610	0.001384266	0.103637759	0.874817
332 Misty Cliff	0.05357	0.03973	0.03973	8.45588E-05	2610	0.000220698	0.056840533	0.463678111
333 Misty Cliff	0.07785	0.03714	0.03714	0.000107385	2610	0.000280274	0.053135096	0.673835
334 Misty Cliff	0.07144	0.04404	0.04404	0.000138559	2610	0.00036164	0.063006722	0.618352889
335 Misty Cliff	0.07495	0.03181	0.03181	7.58401E-05	2610	0.000197943	0.045509624	0.648733889
336 Misty Cliff	0.04504	0.03339	0.03339	5.02147E-05	2610	0.00013106	0.047770083	0.389846222
337 Misty Cliff	0.06778	0.04488	0.04488	0.000136523	2610	0.000356326	0.064208485	0.586673556
338 Misty Cliff	0.05616	0.04122	0.04122	9.54208E-05	2610	0.000249048	0.058972231	0.486096
339 Misty Cliff	0.04613	0.02384	0.02384	2.62178E-05	2610	6.84284E-05	0.034107181	0.399280778
340 Misty Cliff	0.03531	0.03289	0.03289	3.81967E-05	2610	9.96933E-05	0.047054747	0.305627667
341 Misty Cliff	0.08446	0.05777	0.05777	0.000281875	2610	0.000735692	0.082649826	0.731048222
342 Misty Cliff	0.05585	0.03632	0.03632	7.36741E-05	2610	0.000192289	0.051961947	0.483412778

343 Misty Cliff	0.14329	0.07567	0.07567	0.000820471	2610	0.00214143	0.108258825	1.240254556
344 Misty Cliff	0.04563	0.01715	0.01715	1.34208E-05	2610	3.50283E-05	0.024535996	0.394953
345 Misty Cliff	0.04296	0.02272	0.02272	2.21759E-05	2610	5.78791E-05	0.03250483	0.371842667
346 Misty Cliff	0.08803	0.03369	0.03369	9.99155E-05	2610	0.000260779	0.048199284	0.761948556
347 Misty Cliff	0.04684	0.01108	0.01108	5.75038E-06	2610	1.50085E-05	0.015851827	0.405426222
348 Misty Cliff	0.08977	0.05341	0.05341	0.00025608	2610	0.00066837	0.076412103	0.777009222
349 Misty Cliff	0.07346	0.05508	0.05508	0.000222863	2610	0.000581674	0.078801322	0.635837111
350 Misty Cliff	0.15037	0.05247	0.05247	0.000413984	2610	0.001080498	0.075067273	1.301535889
351 Misty Cliff	0.07354	0.0651	0.0651	0.000311663	2610	0.000813441	0.093136639	0.636529556
352 Misty Cliff	0.12499	0.07301	0.07301	0.000666254	2610	0.001738923	0.104453242	1.081857889
353 Misty Cliff	0.05977	0.02511	0.02511	3.76857E-05	2610	9.83597E-05	0.035924132	0.517342556
354 Misty Cliff	0.09907	0.05141	0.05141	0.000261841	2610	0.000683405	0.073550762	0.857505889
355 Misty Cliff	0.06351	0.03708	0.03708	8.73216E-05	2610	0.000227909	0.053049256	0.549714333
356 Misty Cliff	0.06671	0.04954	0.04954	0.00016372	2610	0.00042731	0.070875409	0.577412111
357 Misty Cliff	0.06965	0.05027	0.05027	0.000176011	2610	0.000459388	0.071919798	0.602859444
358 Misty Cliff	0.14345	0.09544	0.09544	0.001306656	2610	0.003410373	0.136543177	1.241639444
359 Misty Cliff	0.09225	0.06185	0.06185	0.000352895	2610	0.000921057	0.088486961	0.798475
360 Misty Cliff	0.04808	0.03032	0.03032	4.42001E-05	2610	0.000115362	0.043377925	0.416159111
361 Misty Cliff	0.0937	0.03692	0.03692	0.000127721	2610	0.000333352	0.052820349	0.811025556
362 Misty Cliff	0.03988	0.02964	0.02964	3.50358E-05	2610	9.14433E-05	0.042405069	0.345183556
363 Misty Cliff	0.14714	0.04924	0.04924	0.000356752	2610	0.000931124	0.070446208	1.273578444
364 Misty Cliff	0.14146	0.07079	0.07079	0.000708888	2610	0.001850197	0.101277153	1.224414889
365 Misty Cliff	0.06591	0.03452	0.03452	7.85404E-05	2610	0.00020499	0.04938674	0.570487667
366 Misty Cliff	0.0775	0.04102	0.04102	0.000130405	2610	0.000340356	0.058686097	0.670805556
367 Misty Cliff	0.1097	0.10239	0.10239	0.001150063	2610	0.003001665	0.146486336	0.949514444
368 Misty Cliff	0.07324	0.03139	0.03139	7.21657E-05	2610	0.000188353	0.044908742	0.633932889
369 Misty Cliff	0.07669	0.03959	0.03959	0.000120201	2610	0.000313726	0.056640239	0.663794556
370 Misty Cliff	0.09742	0.04768	0.04768	0.000221473	2610	0.000578044	0.068214362	0.843224222
371 Misty Cliff	0.08506	0.04085	0.04085	0.000141942	2610	0.000370467	0.058442883	0.736241556
372 Misty Cliff	0.0433	0.02516	0.02516	2.741E-05	2610	7.15401E-05	0.035995666	0.374785556
373 Misty Cliff	0.09624	0.03048	0.03048	8.94099E-05	2610	0.00023336	0.043606832	0.833010667
374 Misty Cliff	0.17374	0.10999	0.10999	0.002101872	2610	0.005485885	0.157359431	1.503816222
375 Misty Cliff	0.05023	0.04129	0.04129	8.56353E-05	2610	0.000223508	0.059072378	0.434768556
376 Misty Cliff	0.04434	0.03504	0.03504	5.44407E-05	2610	0.00014209	0.050130689	0.383787333
377 Misty Cliff	0.02998	0.02536	0.02536	1.9281E-05	2610	5.03235E-05	0.0362818	0.259493556
378 Misty Cliff	0.03184	0.02488	0.02488	1.97094E-05	2610	5.14416E-05	0.035595078	0.275592889
379 Misty Cliff	0.11874	0.04177	0.04177	0.00020717	2610	0.000540713	0.0597591	1.027760667
380 Misty Cliff	0.06931	0.04985	0.04985	0.000172237	2610	0.000449538	0.071318916	0.599916556
381 Misty Cliff	0.07557	0.04373	0.04373	0.000144513	2610	0.00037718	0.062563214	0.654100333
382 Misty Cliff	0.10154	0.07079	0.07079	0.00050884	2610	0.001328072	0.101277153	0.878885111
383 Misty Cliff	0.04267	0.02217	0.02217	2.09727E-05	2610	5.47387E-05	0.031717961	0.369332556
384 Misty Cliff	0.05277	0.03302	0.03302	5.75362E-05	2610	0.00015017	0.047240735	0.456753667
385 Misty Cliff	0.14935	0.06084	0.06084	0.00055282	2610	0.00144286	0.087041983	1.292707222
386 Misty Cliff	0.11757	0.07939	0.07939	0.000741017	2610	0.001934054	0.113580918	1.017633667
387 Misty Cliff	0.03816	0.02814	0.02814	3.02174E-05	2610	7.88673E-05	0.040259063	0.330296
388 Misty Cliff	0.04929	0.01185	0.01185	6.92143E-06	2610	1.80649E-05	0.016953444	0.426632333
389 Misty Cliff	0.07294	0.03457	0.03457	8.71695E-05	2610	0.000227512	0.049458274	0.631336222
390 Misty Cliff	0.05571	0.03353	0.03353	6.26326E-05	2610	0.000163471	0.047970376	0.482201
391 Misty Cliff	0.1224	0.06081	0.06081	0.000452618	2610	0.001181332	0.086999063	1.05944
392 Misty Cliff	0.18876	0.08893	0.08893	0.001492817	2610	0.003896252	0.127229513	1.633822667
393 Misty Cliff	0.14159	0.04919	0.04919	0.000342599	2610	0.000894184	0.070374674	1.225540111
394 Misty Cliff	0.09053	0.08458	0.08458	0.000647631	2610	0.001690318	0.121006097	0.783587444

395 Misty Cliff	0.10204	0.06305	0.06305	0.00040564	2610	0.00105872	0.090203765	0.883212889
396 Misty Cliff	0.08876	0.08857	0.08857	0.000696291	2610	0.001817319	0.126714472	0.768267111
397 Misty Cliff	0.122	0.05586	0.05586	0.000380681	2610	0.000993579	0.079917245	1.055977778
398 Misty Cliff	0.05129	0.04885	0.04885	0.000122394	2610	0.00031945	0.069888246	0.443943444
399 Misty Cliff	0.06259	0.04955	0.04955	0.000153671	2610	0.000401082	0.070889715	0.541751222
400 Misty Cliff	0.07692	0.06057	0.06057	0.000282198	2610	0.000736538	0.086655702	0.665785333
401 Misty Cliff	0.0876	0.0643	0.0643	0.000362181	2610	0.000945293	0.091992103	0.758226667
402 Misty Cliff	0.11043	0.03389	0.03389	0.000126832	2610	0.000331033	0.048485418	0.955833
403 Misty Cliff	0.06122	0.01713	0.01713	1.79642E-05	2610	4.68866E-05	0.024507383	0.529893111
404 Misty Cliff	0.07783	0.04003	0.04003	0.000124715	2610	0.000325506	0.057269734	0.673661889
405 Misty Cliff	0.15361	0.094	0.094	0.001357298	2610	0.003542548	0.134483012	1.329579889
406 Misty Cliff	0.05116	0.04335	0.04335	9.6141E-05	2610	0.000250928	0.062019559	0.442818222
407 Misty Cliff	0.09519	0.05639	0.05639	0.000302688	2610	0.000790016	0.0806755	0.823922333
408 Misty Cliff	0.217	0.08926	0.08926	0.001728914	2610	0.004512467	0.127701635	1.878255556
409 Misty Cliff	0.06222	0.02631	0.02631	4.30697E-05	2610	0.000112412	0.037640937	0.538548667
410 Misty Cliff	0.0364	0.03394	0.03394	4.193E-05	2610	0.000109437	0.048556951	0.315062222
411 Misty Cliff	0.05017	0.03012	0.03012	4.55149E-05	2610	0.000118794	0.043091791	0.434249222
412 Misty Cliff	0.05438	0.03197	0.03197	5.55808E-05	2610	0.000145066	0.045738531	0.470689111
413 Misty Cliff	0.06377	0.02557	0.02557	4.16944E-05	2610	0.000108822	0.036582241	0.551964778
414 Misty Cliff	0.06367	0.04988	0.04988	0.000158412	2610	0.000413455	0.071361837	0.551099222
415 Misty Cliff	0.1011	0.06676	0.06676	0.000450592	2610	0.001176046	0.095511552	0.875076667
416 Misty Cliff	0.02728	0.02446	0.02446	1.63214E-05	2610	4.25988E-05	0.034994197	0.236123556
417 Misty Cliff	0.06001	0.0377	0.0377	8.52916E-05	2610	0.000222611	0.053936272	0.519419889
418 Misty Cliff	0.07201	0.04134	0.04134	0.000123065	2610	0.000321199	0.059143912	0.623286556
419 Misty Cliff	0.12397	0.05391	0.05391	0.000360293	2610	0.000940364	0.077127438	1.073029222
420 Misty Cliff	0.06732	0.02568	0.02568	4.4395E-05	2610	0.000115871	0.036739614	0.582692
421 Misty Cliff	0.14525	0.07687	0.07687	0.000858282	2610	0.002240115	0.109975629	1.257219444
422 Misty Cliff	0.18177	0.12653	0.12653	0.002910109	2610	0.007595384	0.181022718	1.573320333
423 Misty Cliff	0.08067	0.07871	0.07871	0.000499772	2610	0.001304405	0.112608062	0.698243667
424 Misty Cliff	0.11005	0.03686	0.03686	0.00014952	2610	0.000390248	0.052734509	0.952543889
425 Misty Cliff	0.1431	0.05916	0.05916	0.000500836	2610	0.001307183	0.084638457	1.23861
426 Misty Cliff	0.10026	0.06047	0.06047	0.000366613	2610	0.000956859	0.086512635	0.867806
427 Misty Cliff	0.14079	0.07301	0.07301	0.000750475	2610	0.001958741	0.104453242	1.218615667
428 Misty Cliff	0.15466	0.06981	0.06981	0.000753726	2610	0.001967224	0.099875096	1.338668222
429 Misty Cliff	0.08044	0.04637	0.04637	0.00017296	2610	0.000451426	0.066340184	0.696252889
430 Misty Cliff	0.07597	0.06341	0.06341	0.000305462	2610	0.000797257	0.090718806	0.657562556
431 Misty Cliff	0.07191	0.05695	0.05695	0.000233226	2610	0.00060872	0.081476676	0.622421
432 Misty Cliff	0.14834	0.05072	0.05072	0.000381607	2610	0.000995995	0.0725636	1.283965111
433 Misty Cliff	0.24259	0.12819	0.12819	0.003986403	2610	0.010404512	0.183397631	2.099751222
434 Misty Cliff	0.07411	0.03904	0.03904	0.000112953	2610	0.000294806	0.05585337	0.641463222
435 Misty Cliff	0.23062	0.18771	0.18771	0.008125906	2610	0.021208614	0.268551129	1.996144222
436 Misty Cliff	0.21264	0.11386	0.11386	0.002756686	2610	0.007194951	0.162896125	1.840517333
437 Misty Cliff	0.08982	0.06712	0.06712	0.000404648	2610	0.00105613	0.096026593	0.777442
438 Misty Cliff	0.15263	0.10412	0.10412	0.001654658	2610	0.004318657	0.148961396	1.321097444
439 Misty Cliff	0.06376	0.03822	0.03822	9.31386E-05	2610	0.000243092	0.05468022	0.551878222
440 Misty Cliff	0.04674	0.02045	0.02045	1.95468E-05	2610	5.10171E-05	0.029257208	0.404560667
441 Misty Cliff	0.05414	0.02455	0.02455	3.26303E-05	2610	8.51651E-05	0.035122957	0.468611778
442 Misty Cliff	0.07235	0.0275	0.0275	5.47147E-05	2610	0.000142805	0.039343434	0.626229444
443 Misty Cliff	0.11317	0.06286	0.06286	0.000447178	2610	0.001167134	0.089931938	0.979549222
444 Misty Cliff	0.10492	0.05758	0.05758	0.000347858	2610	0.000907909	0.082377998	0.908140889
445 Misty Cliff	0.10427	0.07898	0.07898	0.00065042	2610	0.001697595	0.112994343	0.902514778
446 Misty Cliff	0.06688	0.06344	0.06344	0.000269167	2610	0.000702527	0.090761726	0.578883556

447 Misty Cliff	0.0663	0.05153	0.05153	0.000176049	2610	0.000459488	0.073722443	0.573863333
448 Misty Cliff	0.10444	0.0812	0.0812	0.000688619	2610	0.001797295	0.116170432	0.903986222
449 Misty Cliff	0.09022	0.04298	0.04298	0.000166662	2610	0.000434987	0.061490211	0.780904222
450 Misty Cliff	0.07048	0.05806	0.05806	0.000237586	2610	0.000620098	0.08306472	0.610043556
451 Misty Cliff	0.09619	0.0537	0.0537	0.000277382	2610	0.000723967	0.076826997	0.832577889
452 Misty Cliff	0.07029	0.05221	0.05221	0.000191602	2610	0.000500082	0.074695298	0.608399
453 Misty Cliff	0.07594	0.04528	0.04528	0.000155698	2610	0.000406372	0.064780753	0.657302889
454 Misty Cliff	0.12709	0.08179	0.08179	0.000850182	2610	0.002218974	0.117014527	1.100034556
455 Misty Cliff	0.05184	0.04454	0.04454	0.000102841	2610	0.000268414	0.063722057	0.448704
456 Misty Cliff	0.09465	0.0762	0.0762	0.00054958	2610	0.001434403	0.10901708	0.819248333
457 Misty Cliff	0.12265	0.11099	0.11099	0.001510898	2610	0.003943445	0.158790101	1.061603889
458 Misty Cliff	0.09713	0.05842	0.05842	0.000331495	2610	0.000865201	0.083579761	0.840714111
459 Misty Cliff	0.0866	0.0545	0.0545	0.000257224	2610	0.000671354	0.077971534	0.749571111
460 Misty Cliff	0.15825	0.11228	0.11228	0.001995026	2610	0.005207017	0.160635666	1.369741667
461 Misty Cliff	0.10786	0.04977	0.04977	0.000267175	2610	0.000697327	0.071204463	0.933588222
462 Misty Cliff	0.04534	0.03684	0.03684	6.15348E-05	2610	0.000160606	0.052705895	0.392442889
463 Misty Cliff	0.05489	0.04	0.04	0.000087824	2610	0.000229221	0.057226814	0.475103444
464 Misty Cliff	0.04833	0.02678	0.02678	3.46607E-05	2610	9.04646E-05	0.038313352	0.418323
465 Misty Cliff	0.06857	0.03723	0.03723	9.5043E-05	2610	0.000248062	0.053263857	0.593511444
466 Misty Cliff	0.111	0.057	0.057	0.000360639	2610	0.000941268	0.081548209	0.960766667
467 Misty Cliff	0.11562	0.06207	0.06207	0.000445447	2610	0.001162618	0.088801708	1.000755333
468 Misty Cliff	0.05697	0.03597	0.03597	7.37101E-05	2610	0.000192383	0.051461212	0.493107
469 Misty Cliff	0.13241	0.0884	0.0884	0.001034726	2610	0.002700635	0.126471258	1.146082111
470 Misty Cliff	0.12202	0.07156	0.07156	0.000624844	2610	0.001630843	0.10237877	1.056150889
471 Misty Cliff	0.08583	0.02937	0.02937	7.40367E-05	2610	0.000193236	0.042018788	0.742906333
472 Misty Cliff	0.15999	0.06169	0.06169	0.000608867	2610	0.001589143	0.088258053	1.384802333
473 Misty Cliff	0.12734	0.04923	0.04923	0.00030862	2610	0.000805499	0.070431901	1.102198444
474 Misty Cliff	0.05311	0.04746	0.04746	0.000119628	2610	0.000312228	0.067899614	0.459696556
475 Misty Cliff	0.15328	0.14395	0.14395	0.003176207	2610	0.008289901	0.205944995	1.326723556
476 Misty Cliff	0.28284	0.27362	0.27362	0.021175638	2610	0.055268415	0.391460018	2.448137333
477 Misty Cliff	0.0784	0.07629	0.07629	0.000456301	2610	0.001190945	0.10914584	0.678595556
478 Misty Cliff	0.13833	0.08054	0.08054	0.000897304	2610	0.002341964	0.115226189	1.197323
479 Misty Cliff	0.18448	0.14165	0.14165	0.00370154	2610	0.009661019	0.202654454	1.596776889
480 Misty Cliff	0.07501	0.03756	0.03756	0.000105821	2610	0.000276192	0.053735978	0.649253222
481 Misty Cliff	0.1496	0.05427	0.05427	0.000440607	2610	0.001149984	0.077642479	1.294871111
482 Misty Cliff	0.11467	0.04992	0.04992	0.000285758	2610	0.000745829	0.071419063	0.992532556
483 Misty Cliff	0.07922	0.07197	0.07197	0.000410334	2610	0.001070973	0.102965344	0.685693111
484 Misty Cliff	0.07067	0.05118	0.05118	0.000185112	2610	0.000483144	0.073221708	0.611688111
485 Misty Cliff	0.13803	0.08539	0.08539	0.001006439	2610	0.002626806	0.12216494	1.194726333
486 Misty Cliff	0.08733	0.08197	0.08197	0.000586777	2610	0.001531489	0.117272048	0.755889667
487 Misty Cliff	0.08548	0.03172	0.03172	8.60064E-05	2610	0.000224477	0.045380863	0.739876889
488 Misty Cliff	0.08439	0.04926	0.04926	0.000204776	2610	0.000534466	0.070474821	0.730442333
489 Misty Cliff	0.12983	0.11245	0.11245	0.001641701	2610	0.004284839	0.16087888	1.123750778
490 Misty Cliff	0.12048	0.07438	0.07438	0.000666542	2610	0.001739674	0.10641326	1.042821333
491 Misty Cliff	0.09674	0.06287	0.06287	0.000382378	2610	0.000998007	0.089946244	0.837338444
492 Misty Cliff	0.07962	0.05788	0.05788	0.000266735	2610	0.000696177	0.082807199	0.689155333
493 Misty Cliff	0.13242	0.0541	0.0541	0.000387568	2610	0.001011553	0.077399265	1.146168667
494 Misty Cliff	0.07428	0.05884	0.05884	0.000257168	2610	0.000671209	0.084180643	0.642934667
495 Misty Cliff	0.07282	0.06573	0.06573	0.000314614	2610	0.000821142	0.094037961	0.630297556
496 Misty Cliff	0.06297	0.03243	0.03243	6.62259E-05	2610	0.000172849	0.046396639	0.545040333
497 Misty Cliff	0.0948	0.05341	0.05341	0.000270429	2610	0.00070582	0.076412103	0.820546667
498 Misty Cliff	0.06074	0.05535	0.05535	0.000186084	2610	0.00048568	0.079187603	0.525738444

499 Misty Cliff	0.12104	0.05098	0.05098	0.000314578	2610	0.000821049	0.072935574	1.047668444
500 Misty Cliff	0.05259	0.04768	0.04768	0.000119557	2610	0.000312044	0.068214362	0.455195667
501 Misty Cliff	0.14471	0.09164	0.09164	0.001215259	2610	0.003171825	0.13110663	1.252545444
502 Misty Cliff	0.21116	0.04239	0.04239	0.000379436	2610	0.000990328	0.060646116	1.827707111
503 Misty Cliff	0.09042	0.02794	0.02794	7.05858E-05	2610	0.000184229	0.039972929	0.782635333
504 Misty Cliff	0.0879	0.04966	0.04966	0.000216772	2610	0.000565774	0.071047089	0.760823333
505 Misty Cliff	0.04833	0.02746	0.02746	3.64433E-05	2610	9.5117E-05	0.039286208	0.418323
506 Misty Cliff	0.08286	0.03457	0.03457	9.90247E-05	2610	0.000258455	0.049458274	0.717199333
507 Misty Cliff	0.04099	0.04016	0.04016	6.61097E-05	2610	0.000172546	0.057455721	0.354791222
508 Misty Cliff	0.08004	0.06306	0.06306	0.000318284	2610	0.000830722	0.090218072	0.692790667
509 Misty Cliff	0.03436	0.02836	0.02836	2.76354E-05	2610	7.21284E-05	0.040573811	0.297404889
510 Misty Cliff	0.03478	0.03392	0.03392	4.00167E-05	2610	0.000104444	0.048528338	0.301040222
511 Misty Cliff	0.05928	0.03275	0.03275	6.35815E-05	2610	0.000165948	0.046854454	0.513101333
512 Misty Cliff	0.12841	0.0632	0.0632	0.0005129	2610	0.00133867	0.090418365	1.111459889
513 Misty Cliff	0.31677	0.27642	0.27642	0.024203767	2610	0.063171833	0.395465895	2.741820333
514 Misty Cliff	0.1434	0.06195	0.06195	0.000550341	2610	0.00143639	0.088630028	1.241206667
515 Misty Cliff	0.06369	0.04374	0.04374	0.000121851	2610	0.000318031	0.062577521	0.551272333
516 Misty Cliff	0.05602	0.0448	0.0448	0.000112434	2610	0.000293454	0.064094031	0.484884222
517 Misty Cliff	0.0855	0.06498	0.06498	0.000361015	2610	0.00094225	0.092964959	0.74005
518 Misty Cliff	0.04749	0.02742	0.02742	3.57057E-05	2610	9.31918E-05	0.039228981	0.411052333
519 Misty Cliff	0.06903	0.05822	0.05822	0.000233982	2610	0.000610693	0.083293627	0.597493
520 Misty Cliff	0.03306	0.02911	0.02911	2.80148E-05	2610	7.31186E-05	0.041646814	0.286152667
521 Misty Cliff	0.04254	0.04025	0.04025	6.89175E-05	2610	0.000179875	0.057584481	0.368207333
522 Misty Cliff	0.04972	0.01156	0.01156	6.64426E-06	2610	1.73415E-05	0.016538549	0.430354222
523 Misty Cliff	0.03355	0.01061	0.01061	3.77679E-06	2610	9.85743E-06	0.015179412	0.290393889
524 Misty Cliff	0.05269	0.02117	0.02117	2.3614E-05	2610	6.16326E-05	0.030287291	0.456061222
525 Misty Cliff	0.16919	0.1593	0.1593	0.004293448	2610	0.0112059	0.227905785	1.464433444
526 Misty Cliff	0.10028	0.05526	0.05526	0.000306222	2610	0.000799239	0.079058843	0.867979111
527 Misty Cliff	0.06007	0.04397	0.04397	0.000116137	2610	0.000303118	0.062906575	0.519939222
528 Misty Cliff	0.10064	0.0748	0.0748	0.000563085	2610	0.001469651	0.107014141	0.871095111
529 Misty Cliff	0.08416	0.05852	0.05852	0.000288214	2610	0.000752237	0.083722828	0.728451556
530 Misty Cliff	0.13243	0.0833	0.0833	0.000918917	2610	0.002398374	0.119174839	1.146255222
531 Misty Cliff	0.08207	0.05169	0.05169	0.000219279	2610	0.000572319	0.07395135	0.710361444
532 Misty Cliff	0.20927	0.13687	0.13687	0.003920338	2610	0.010232082	0.195815849	1.811348111
533 Misty Cliff	0.13006	0.06275	0.06275	0.000512119	2610	0.001336632	0.089774564	1.125741556
534 Misty Cliff	0.06212	0.03919	0.03919	9.54074E-05	2610	0.000249013	0.056067971	0.537683111
535 Misty Cliff	0.08005	0.05987	0.05987	0.000286933	2610	0.000748894	0.085654233	0.692877222
536 Misty Cliff	0.08722	0.0306	0.0306	8.16693E-05	2610	0.000213157	0.043778512	0.754937556
537 Misty Cliff	0.16598	0.13595	0.13595	0.003067709	2610	0.008006721	0.194499633	1.436649111
538 Misty Cliff	0.10089	0.06944	0.06944	0.000486483	2610	0.00126972	0.099345748	0.873259
539 Misty Cliff	0.12917	0.0615	0.0615	0.000488553	2610	0.001275124	0.087986226	1.118038111
540 Misty Cliff	0.15542	0.08999	0.08999	0.001258622	2610	0.003285004	0.128746024	1.345246444
541 Misty Cliff	0.15285	0.10978	0.10978	0.001842094	2610	0.004807867	0.15705899	1.323001667
1 Kogel Bay	1.00437	0.60741	0.60741	0.370559206	2610	0.967159528	0.869003471	8.693380333
2 Kogel Bay	0.07187	0.03458	0.03458	8.59404E-05	2610	0.000224305	0.04947258	0.622074778
3 Kogel Bay	0.07081	0.02814	0.02814	5.60716E-05	2610	0.000146347	0.040259063	0.612899889
4 Kogel Bay	0.14548	0.08228	0.08228	0.000984899	2610	0.002570587	0.117715556	1.259210222
5 Kogel Bay	0.29984	0.23886	0.23886	0.017107101	2610	0.044649534	0.341729917	2.595281778
6 Kogel Bay	0.26942	0.2075	0.2075	0.011600215	2610	0.030276561	0.296864096	2.331979778
7 Kogel Bay	0.2226	0.13928	0.13928	0.004318199	2610	0.0112705	0.199263765	1.926726667
8 Kogel Bay	0.04944	0.03588	0.03588	6.36478E-05	2610	0.000166121	0.051332452	0.427930667
9 Kogel Bay	0.06689	0.03781	0.03781	9.56257E-05	2610	0.000249583	0.054093646	0.578970111

10	Kogel Bay	0.07705	0.05087	0.05087	0.000199387	2610	0.000520399	0.0727782	0.666910556
11	Kogel Bay	0.05383	0.04187	0.04187	9.43692E-05	2610	0.000246304	0.059902167	0.465928556
12	Kogel Bay	0.27551	0.09718	0.09718	0.002601903	2610	0.0006790968	0.139032544	2.384692111
13	Kogel Bay	0.08392	0.0337	0.0337	9.53071E-05	2610	0.000248752	0.04821359	0.726374222
14	Kogel Bay	0.39305	0.31908	0.31908	0.040017225	2610	0.104444957	0.456498292	3.402066111
15	Kogel Bay	1.80371	1.05499	1.05499	2.007536265	2610	5.239669651	1.509342902	15.61211211
16	Kogel Bay	0.06897	0.05932	0.05932	0.000242696	2610	0.000633436	0.084867365	0.596973667
17	Kogel Bay	0.36219	0.10909	0.10909	0.004310288	2610	0.011249853	0.156071827	3.134955667
18	Kogel Bay	0.78195	0.49904	0.49904	0.194737549	2610	0.508265002	0.713961726	6.768211667
19	Kogel Bay	0.17236	0.17085	0.17085	0.005031141	2610	0.013131277	0.244430028	1.491871556
20	Kogel Bay	0.12409	0.05243	0.05243	0.000341112	2610	0.000890301	0.075010046	1.074067889
21	Kogel Bay	0.05054	0.03485	0.03485	6.1382E-05	2610	0.000160207	0.049858861	0.437451778
22	Kogel Bay	0.22382	0.16956	0.16956	0.006434958	2610	0.01679524	0.242584463	1.937286444
23	Kogel Bay	0.04399	0.03768	0.03768	6.24562E-05	2610	0.000163011	0.053907658	0.380757889
24	Kogel Bay	0.05736	0.04288	0.04288	0.000105468	2610	0.00027527	0.061347144	0.496482667
25	Kogel Bay	0.04614	0.02782	0.02782	3.57102E-05	2610	9.32035E-05	0.039801249	0.399367333
26	Kogel Bay	0.04779	0.03557	0.03557	6.04651E-05	2610	0.000157814	0.050888944	0.413649
27	Kogel Bay	0.23416	0.14098	0.14098	0.004654014	2610	0.012146978	0.201695904	2.026784889
28	Kogel Bay	0.05719	0.0316	0.0316	5.71076E-05	2610	0.000149051	0.045209183	0.495011222
29	Kogel Bay	0.1034	0.02599	0.02599	6.98446E-05	2610	0.000182295	0.037183122	0.894984444
30	Kogel Bay	0.83795	0.46819	0.46819	0.183680212	2610	0.479405354	0.669825546	7.252922778
31	Kogel Bay	0.15489	0.11891	0.11891	0.002190081	2610	0.005716111	0.17012101	1.340659
32	Kogel Bay	0.48491	0.35401	0.35401	0.060770415	2610	0.158610783	0.506471607	4.197165444
33	Kogel Bay	0.523	0.40736	0.40736	0.086787755	2610	0.22651604	0.58279787	4.526855556
34	Kogel Bay	0.13896	0.07011	0.07011	0.000683046	2610	0.001782749	0.100304298	1.202776
35	Kogel Bay	0.05117	0.04804	0.04804	0.000118092	2610	0.000308221	0.068729403	0.442904778
36	Kogel Bay	0.05875	0.04277	0.04277	0.00010747	2610	0.000280496	0.06118977	0.508513889
37	Kogel Bay	0.07871	0.03698	0.03698	0.000107638	2610	0.000280934	0.052906189	0.681278778
38	Kogel Bay	0.08915	0.07371	0.07371	0.000484367	2610	0.001264197	0.105454711	0.771642778
39	Kogel Bay	0.0771	0.03335	0.03335	8.57524E-05	2610	0.000223814	0.047712856	0.667343333
40	Kogel Bay	0.08536	0.04632	0.04632	0.000183143	2610	0.000478005	0.06626865	0.738838222
41	Kogel Bay	0.04967	0.03752	0.03752	6.9923E-05	2610	0.000182499	0.053678751	0.429921444
42	Kogel Bay	0.0716	0.04064	0.04064	0.000118255	2610	0.000308646	0.058142443	0.619737778
43	Kogel Bay	0.15024	0.05524	0.05524	0.000458451	2610	0.001196557	0.07903023	1.300410667
44	Kogel Bay	0.07958	0.04614	0.04614	0.000169418	2610	0.000442181	0.066011129	0.688809111
45	Kogel Bay	0.07076	0.03362	0.03362	7.99803E-05	2610	0.000208749	0.048099137	0.612467111
46	Kogel Bay	0.0436	0.03032	0.03032	4.00816E-05	2610	0.000104613	0.043377925	0.377382222
47	Kogel Bay	0.04735	0.0288	0.0288	3.9274E-05	2610	0.000102505	0.041203306	0.409840556
48	Kogel Bay	0.03943	0.03898	0.03898	5.99115E-05	2610	0.000156369	0.05576753	0.341288556
49	Kogel Bay	0.06772	0.04967	0.04967	0.000167073	2610	0.00043606	0.071061396	0.586154222
50	Kogel Bay	0.11526	0.05153	0.05153	0.000306055	2610	0.000798802	0.073722443	0.997639333
51	Kogel Bay	0.15722	0.04167	0.04167	0.000272995	2610	0.000712517	0.059616033	1.360826444
52	Kogel Bay	0.42919	0.23027	0.23027	0.022757488	2610	0.059397043	0.329440459	3.714877889
53	Kogel Bay	0.07519	0.06467	0.06467	0.00031446	2610	0.000820741	0.092521451	0.650811222
54	Kogel Bay	0.64351	0.25905	0.25905	0.043183963	2610	0.112710143	0.370615152	5.569936556
55	Kogel Bay	0.40707	0.08128	0.08128	0.002689283	2610	0.007019028	0.116284885	3.523417
56	Kogel Bay	0.27245	0.21097	0.21097	0.012126297	2610	0.031649636	0.301828522	2.358206111
57	Kogel Bay	1.11989	0.66548	0.66548	0.495958551	2610	1.294451818	0.952082498	9.693270111
58	Kogel Bay	0.18627	0.09384	0.09384	0.001640283	2610	0.00428114	0.134254105	1.612270333
59	Kogel Bay	0.21546	0.14628	0.14628	0.004610378	2610	0.012033087	0.209278457	1.864926
60	Kogel Bay	0.53783	0.19579	0.19579	0.020617027	2610	0.05381044	0.280110946	4.655217444
61	Kogel Bay	0.56249	0.48995	0.48995	0.135026288	2610	0.352418613	0.700956933	4.868663444

62	Kogel Bay	0.08104	0.04436	0.04436	0.000159471	2610	0.00041622	0.063464536	0.701446222
63	Kogel Bay	0.07335	0.06686	0.06686	0.000327894	2610	0.000855802	0.095654619	0.634885
64	Kogel Bay	0.30374	0.26319	0.26319	0.021039759	2610	0.05491377	0.376538127	2.629038444
65	Kogel Bay	0.07982	0.06093	0.06093	0.000296329	2610	0.000773419	0.087170744	0.690886444
66	Kogel Bay	0.10574	0.09139	0.09139	0.000883154	2610	0.002305033	0.130748962	0.915238444
67	Kogel Bay	0.07898	0.0676	0.0676	0.00036092	2610	0.000942	0.096713315	0.683615778
68	Kogel Bay	0.09222	0.03518	0.03518	0.000114134	2610	0.000297891	0.050330983	0.798215333
69	Kogel Bay	0.05986	0.05363	0.05363	0.000172168	2610	0.000449358	0.07672685	0.518121556
70	Kogel Bay	0.05956	0.02977	0.02977	5.27852E-05	2610	0.000137769	0.042591056	0.515524889
71	Kogel Bay	0.03933	0.03273	0.03273	4.21324E-05	2610	0.000109966	0.04682584	0.340423
72	Kogel Bay	0.13374	0.08902	0.08902	0.001059831	2610	0.002766158	0.127358274	1.157594
73	Kogel Bay	0.09771	0.05232	0.05232	0.00026747	2610	0.000698096	0.074852672	0.845734333
74	Kogel Bay	0.16511	0.04577	0.04577	0.000345888	2610	0.000902767	0.065481781	1.429118778
75	Kogel Bay	0.06386	0.03977	0.03977	0.000101004	2610	0.000263621	0.056897759	0.552743778
76	Kogel Bay	0.10937	0.07935	0.07935	0.00068864	2610	0.00179735	0.113523691	0.946658111
77	Kogel Bay	0.08771	0.03815	0.03815	0.000127655	2610	0.00033318	0.054580073	0.759178778
78	Kogel Bay	0.12185	0.04866	0.04866	0.000288516	2610	0.000753026	0.069616419	1.054679444
79	Kogel Bay	0.05343	0.02195	0.02195	2.57427E-05	2610	6.71885E-05	0.031403214	0.462466333
80	Kogel Bay	0.10579	0.05491	0.05491	0.000318968	2610	0.000832507	0.078558108	0.915671222
81	Kogel Bay	0.04719	0.02861	0.02861	3.86265E-05	2610	0.000100815	0.040931478	0.408455667
82	Kogel Bay	0.04297	0.03819	0.03819	6.26707E-05	2610	0.000163571	0.0546373	0.371929222
83	Kogel Bay	0.15993	0.10005	0.10005	0.0016009	2610	0.004178348	0.143138567	1.384283
84	Kogel Bay	0.46528	0.30205	0.30205	0.04244945	2610	0.110793064	0.432133976	4.027256889
85	Kogel Bay	0.19206	0.15468	0.15468	0.004595209	2610	0.011993495	0.221296088	1.662386
86	Kogel Bay	0.06305	0.03424	0.03424	7.39184E-05	2610	0.000192927	0.048986152	0.545732778
87	Kogel Bay	0.04216	0.01579	0.01579	1.05115E-05	2610	2.7435E-05	0.022590285	0.364918222
88	Kogel Bay	0.04339	0.03208	0.03208	4.46538E-05	2610	0.000116546	0.045895904	0.375564556
89	Kogel Bay	0.14086	0.07258	0.07258	0.00074203	2610	0.001936699	0.103838053	1.219221556
90	Kogel Bay	0.12694	0.09031	0.09031	0.001035309	2610	0.002702158	0.129203838	1.098736222
91	Kogel Bay	0.11436	0.04434	0.04434	0.000224836	2610	0.000586822	0.063435923	0.989849333
92	Kogel Bay	0.91025	0.56342	0.56342	0.288951668	2610	0.754163854	0.806068283	7.878719444
93	Kogel Bay	0.1458	0.09039	0.09039	0.001191237	2610	0.003109129	0.129318292	1.26198
94	Kogel Bay	0.27114	0.24999	0.24999	0.016944894	2610	0.044226174	0.357653278	2.346867333
95	Kogel Bay	0.11852	0.06427	0.06427	0.000489563	2610	0.001277758	0.091949183	1.025856444
96	Kogel Bay	0.08102	0.06771	0.06771	0.000371448	2610	0.000969479	0.096870689	0.701273111
97	Kogel Bay	0.20228	0.12457	0.12457	0.003138917	2610	0.008192574	0.178218604	1.750845778
98	Kogel Bay	0.216	0.19942	0.19942	0.008589961	2610	0.022419797	0.285304279	1.8696
99	Kogel Bay	0.89792	0.47124	0.47124	0.199398524	2610	0.520430148	0.674189091	7.771996444
100	Kogel Bay	1.05248	0.71081	0.71081	0.531766421	2610	1.387910359	1.016934784	9.109799111
101	Kogel Bay	0.95379	0.59044	0.59044	0.332509691	2610	0.867850295	0.844724995	8.255582333
102	Kogel Bay	0.09198	0.0549	0.0549	0.000277229	2610	0.000723567	0.078543802	0.796138
103	Kogel Bay	0.11881	0.04161	0.04161	0.000205707	2610	0.000536894	0.059530193	1.028366556
104	Kogel Bay	0.07516	0.05452	0.05452	0.000223408	2610	0.000583095	0.078000147	0.650551556
105	Kogel Bay	0.08591	0.04653	0.04653	0.000185999	2610	0.000485457	0.066569091	0.743598778
106	Kogel Bay	0.22801	0.20542	0.20542	0.009621424	2610	0.025111916	0.293888301	1.973553222
107	Kogel Bay	0.57166	0.41425	0.41425	0.098098607	2610	0.256037364	0.592655188	4.948034889
108	Kogel Bay	0.11619	0.1032	0.1032	0.001237451	2610	0.003229748	0.147645179	1.005689
109	Kogel Bay	0.11137	0.04386	0.04386	0.000214242	2610	0.000559173	0.062749201	0.963969222
110	Kogel Bay	0.14547	0.04911	0.04911	0.000350843	2610	0.000915701	0.07026022	1.259123667
111	Kogel Bay	0.15562	0.07541	0.07541	0.000884959	2610	0.002309744	0.10788685	1.346977556
112	Kogel Bay	0.07032	0.04837	0.04837	0.000164525	2610	0.000429409	0.069201524	0.608658667
113	Kogel Bay	0.05932	0.029	0.029	4.98881E-05	2610	0.000130208	0.04148944	0.513447556

114	Kogel Bay	0.22531	0.13294	0.13294	0.003981913	2610	0.010392794	0.190193315	1.950183222
115	Kogel Bay	0.05415	0.0347	0.0347	6.52015E-05	2610	0.000170176	0.049644261	0.468698333
116	Kogel Bay	0.07765	0.033	0.033	8.45609E-05	2610	0.000220704	0.047212121	0.672103889
117	Kogel Bay	0.64184	0.39291	0.39291	0.099086148	2610	0.258614845	0.562124683	5.555481778
118	Kogel Bay	0.07353	0.05269	0.05269	0.000204137	2610	0.000532797	0.07538202	0.636443
119	Kogel Bay	0.14063	0.07292	0.07292	0.000747776	2610	0.001951694	0.104324481	1.217230778
120	Kogel Bay	0.20107	0.14988	0.14988	0.004516839	2610	0.011788951	0.214428871	1.740372556
121	Kogel Bay	0.12648	0.08048	0.08048	0.000819215	2610	0.002138151	0.115140349	1.094754667
122	Kogel Bay	0.27555	0.22616	0.22616	0.014093927	2610	0.036785149	0.323560404	2.385038333
123	Kogel Bay	0.14701	0.04942	0.04942	0.000359048	2610	0.000937115	0.070703728	1.272453222
124	Kogel Bay	0.07429	0.06255	0.06255	0.00029066	2610	0.000758622	0.08948843	0.643021222
125	Kogel Bay	0.07275	0.05253	0.05253	0.000200746	2610	0.000523948	0.075153113	0.629691667
126	Kogel Bay	0.11539	0.06051	0.06051	0.000422496	2610	0.001102714	0.086569862	0.998764556
127	Kogel Bay	0.08663	0.06498	0.06498	0.000365787	2610	0.000954703	0.092964959	0.749830778
128	Kogel Bay	0.06284	0.03599	0.03599	8.13954E-05	2610	0.000212442	0.051489826	0.543915111
129	Kogel Bay	0.82613	0.60461	0.60461	0.301994508	2610	0.788205666	0.864997594	7.150614111
130	Kogel Bay	0.09193	0.06813	0.06813	0.000426711	2610	0.001113716	0.09747157	0.795705222
131	Kogel Bay	0.06975	0.06325	0.06325	0.000279039	2610	0.000728292	0.090489899	0.603725
132	Kogel Bay	0.09268	0.06162	0.06162	0.000351908	2610	0.00091848	0.088157906	0.802196889
133	Kogel Bay	0.16768	0.05681	0.05681	0.000541166	2610	0.001412444	0.081276382	1.451363556
134	Kogel Bay	0.0734	0.0238	0.0238	4.15767E-05	2610	0.000108515	0.034049954	0.635317778
135	Kogel Bay	0.11021	0.04323	0.04323	0.000205964	2610	0.000537566	0.061847879	0.953928778
136	Kogel Bay	0.13783	0.04724	0.04724	0.000307584	2610	0.000802794	0.067584867	1.192995222
137	Kogel Bay	0.12796	0.05385	0.05385	0.000371061	2610	0.00096847	0.077041598	1.107564889
138	Kogel Bay	0.8508	0.59574	0.59574	0.30195415	2610	0.788100332	0.852307548	7.364146667
139	Kogel Bay	0.1444	0.059	0.059	0.000502656	2610	0.001311933	0.08440955	1.249862222
140	Kogel Bay	0.15618	0.0694	0.0694	0.000752219	2610	0.001963292	0.099288522	1.351824667
141	Kogel Bay	0.05966	0.03822	0.03822	8.71494E-05	2610	0.00022746	0.05468022	0.516390444
142	Kogel Bay	0.06507	0.03593	0.03593	8.40031E-05	2610	0.000219248	0.051403985	0.563217
143	Kogel Bay	0.08541	0.04858	0.04858	0.000201569	2610	0.000526095	0.069501965	0.739271
144	Kogel Bay	0.07485	0.05066	0.05066	0.000192098	2610	0.000501375	0.072477759	0.647868333
145	Kogel Bay	0.07873	0.0321	0.0321	8.11242E-05	2610	0.000211734	0.045924518	0.681451889
146	Kogel Bay	0.07661	0.05028	0.05028	0.000193676	2610	0.000505495	0.071934105	0.663102111
147	Kogel Bay	0.09265	0.05855	0.05855	0.000317614	2610	0.000828972	0.083765748	0.801937222
148	Kogel Bay	0.08547	0.0346	0.0346	0.000102321	2610	0.000267059	0.049501194	0.739790333
149	Kogel Bay	0.08176	0.04116	0.04116	0.000138513	2610	0.00036152	0.058886391	0.707678222
150	Kogel Bay	0.08439	0.03015	0.03015	7.67124E-05	2610	0.000200219	0.043134711	0.730442333
151	Kogel Bay	0.08582	0.05297	0.05297	0.000240796	2610	0.000628476	0.075782608	0.742819778
152	Kogel Bay	0.08802	0.07207	0.07207	0.000457183	2610	0.001193249	0.103108411	0.761862
153	Kogel Bay	0.07581	0.04514	0.04514	0.000154472	2610	0.000403172	0.064580459	0.656177667
154	Kogel Bay	0.13511	0.05001	0.05001	0.00033791	2610	0.000881945	0.071547824	1.169452111
155	Kogel Bay	0.10788	0.07739	0.07739	0.000646116	2610	0.001686363	0.110719578	0.933761333
156	Kogel Bay	0.05578	0.05141	0.05141	0.000147426	2610	0.000384782	0.073550762	0.482806889
157	Kogel Bay	0.06866	0.03265	0.03265	7.31931E-05	2610	0.000191034	0.046711387	0.594290444
158	Kogel Bay	0.0671	0.04357	0.04357	0.000127379	2610	0.000332459	0.062334307	0.580787778
159	Kogel Bay	0.05404	0.04239	0.04239	9.71051E-05	2610	0.000253444	0.060646116	0.467746222
160	Kogel Bay	0.07827	0.03043	0.03043	7.24768E-05	2610	0.000189165	0.043535298	0.677470333
161	Kogel Bay	0.08788	0.06207	0.06207	0.000338574	2610	0.000883678	0.088801708	0.760650222
162	Kogel Bay	0.13541	0.03644	0.03644	0.000179807	2610	0.000469297	0.052133627	1.172048778
163	Kogel Bay	0.20745	0.14995	0.14995	0.004664514	2610	0.012174381	0.214529017	1.795595
164	Kogel Bay	0.30948	0.19059	0.19059	0.011241721	2610	0.029340892	0.27267146	2.678721333
165	Kogel Bay	0.11062	0.07275	0.07275	0.000585463	2610	0.001528059	0.104081267	0.957477556

166	Kogel Bay	0.05154	0.04626	0.04626	0.000110295	2610	0.00028787	0.06618281	0.446107333
167	Kogel Bay	0.07566	0.0341	0.0341	8.79782E-05	2610	0.000229623	0.048785859	0.654879333
168	Kogel Bay	0.0578	0.02976	0.02976	5.1191E-05	2610	0.000133609	0.042576749	0.500291111
169	Kogel Bay	0.11443	0.02888	0.02888	9.54408E-05	2610	0.000249101	0.041317759	0.990455222
170	Kogel Bay	0.05855	0.05468	0.05468	0.000175059	2610	0.000456903	0.078229054	0.506782778
171	Kogel Bay	0.07328	0.04418	0.04418	0.000143033	2610	0.000373317	0.063207016	0.634279111
172	Kogel Bay	0.77878	0.45898	0.45898	0.164059851	2610	0.428196211	0.656649073	6.740773556
173	Kogel Bay	0.20278	0.08019	0.08019	0.001303964	2610	0.003403346	0.114725455	1.755173556
174	Kogel Bay	0.23549	0.17158	0.17158	0.006932754	2610	0.018094488	0.245474417	2.038296778
175	Kogel Bay	0.16605	0.14203	0.14203	0.003349647	2610	0.008742579	0.203198108	1.437255
176	Kogel Bay	0.08669	0.06685	0.06685	0.000387411	2610	0.001011142	0.095640312	0.750350111
177	Kogel Bay	0.11639	0.10466	0.10466	0.001274903	2610	0.003327497	0.149733958	1.007420111
178	Kogel Bay	0.09352	0.03996	0.03996	0.000149333	2610	0.000389759	0.057169587	0.809467556
179	Kogel Bay	0.14255	0.05032	0.05032	0.000360951	2610	0.000942083	0.071991331	1.233849444
180	Kogel Bay	0.15003	0.05018	0.05018	0.00037778	2610	0.000986007	0.071791038	1.298593
181	Kogel Bay	0.09271	0.06775	0.06775	0.000425545	2610	0.001110672	0.096927916	0.802456556
182	Kogel Bay	0.05695	0.03071	0.03071	5.37098E-05	2610	0.000140183	0.043935886	0.492933889
183	Kogel Bay	0.07951	0.04803	0.04803	0.00018342	2610	0.000478726	0.068715096	0.688203222
184	Kogel Bay	0.0907	0.04695	0.04695	0.00019993	2610	0.000521818	0.067169972	0.785058889
185	Kogel Bay	0.09032	0.04533	0.04533	0.00018559	2610	0.000484391	0.064852287	0.781769778
186	Kogel Bay	0.098	0.09238	0.09238	0.000836338	2610	0.002182843	0.132165326	0.848244444
187	Kogel Bay	0.10918	0.03826	0.03826	0.000159821	2610	0.000417132	0.054737447	0.945013556
188	Kogel Bay	0.13737	0.11386	0.11386	0.001780878	2610	0.004648093	0.162896125	1.189013667
189	Kogel Bay	0.10302	0.03655	0.03655	0.000137625	2610	0.0003592	0.052291001	0.891695333
190	Kogel Bay	0.06119	0.03851	0.03851	9.0746E-05	2610	0.000236847	0.055095115	0.529633444
191	Kogel Bay	0.0746	0.06165	0.06165	0.000283534	2610	0.000740023	0.088200826	0.645704444
192	Kogel Bay	0.17992	0.07822	0.07822	0.001100817	2610	0.002873132	0.111907034	1.557307556
193	Kogel Bay	0.04019	0.03785	0.03785	5.75771E-05	2610	0.000150276	0.054150872	0.347866778
194	Kogel Bay	0.1788	0.08914	0.08914	0.001420734	2610	0.003708116	0.127529954	1.547613333
195	Kogel Bay	0.11773	0.03478	0.03478	0.000142412	2610	0.000371695	0.049758714	1.019018556
196	Kogel Bay	0.08544	0.05355	0.05355	0.000245008	2610	0.000639471	0.076612397	0.739530667
197	Kogel Bay	0.25859	0.0989	0.0989	0.002529323	2610	0.006601533	0.141493297	2.238240111
198	Kogel Bay	0.36825	0.21745	0.21745	0.017412518	2610	0.045446672	0.311099265	3.187408333
199	Kogel Bay	0.0709	0.05204	0.05204	0.000192009	2610	0.000501143	0.074452084	0.613678889
200	Kogel Bay	0.10001	0.09695	0.09695	0.000940024	2610	0.002453463	0.138703489	0.865642111
201	Kogel Bay	0.16747	0.07582	0.07582	0.00096273	2610	0.002512726	0.108473425	1.449545889
202	Kogel Bay	0.12622	0.07686	0.07686	0.00074564	2610	0.001946119	0.109961322	1.092504222
203	Kogel Bay	0.08417	0.05114	0.05114	0.00022013	2610	0.000574539	0.073164481	0.728538111
204	Kogel Bay	0.06556	0.05619	0.05619	0.000206994	2610	0.000540253	0.080389366	0.567458222
205	Kogel Bay	0.07243	0.06156	0.06156	0.000274483	2610	0.000716401	0.088072066	0.626921889
206	Kogel Bay	0.09694	0.06318	0.06318	0.000386957	2610	0.001009957	0.090389752	0.839069556
207	Kogel Bay	0.06996	0.06352	0.06352	0.000282274	2610	0.000736735	0.09087618	0.605542667
208	Kogel Bay	0.13178	0.03999	0.03999	0.000210743	2610	0.000550038	0.057212507	1.140629111
209	Kogel Bay	0.14791	0.068	0.068	0.000683936	2610	0.001785073	0.097285583	1.280243222
210	Kogel Bay	0.1901	0.04703	0.04703	0.000420467	2610	0.001097419	0.067284426	1.645421111
211	Kogel Bay	0.08925	0.04702	0.04702	0.000197321	2610	0.000515008	0.067270119	0.772508333
212	Kogel Bay	0.11501	0.0315	0.0315	0.000114119	2610	0.00029785	0.045066116	0.995475444
213	Kogel Bay	0.05482	0.04102	0.04102	9.22423E-05	2610	0.000240753	0.058686097	0.474497556
214	Kogel Bay	0.04966	0.03801	0.03801	7.17468E-05	2610	0.000187259	0.05437978	0.429834889
215	Kogel Bay	0.03614	0.03231	0.03231	3.77279E-05	2610	9.84697E-05	0.046224959	0.312811778
216	Kogel Bay	0.04309	0.03763	0.03763	6.10162E-05	2610	0.000159252	0.053836125	0.372967889
217	Kogel Bay	0.08422	0.02725	0.02725	6.25386E-05	2610	0.000163226	0.038985767	0.728970889

218	Kogel Bay	0.17961	0.11302	0.11302	0.002294252	2610	0.005987998	0.161694362	1.554624333
219	Kogel Bay	0.07403	0.06409	0.06409	0.00030408	2610	0.00079365	0.091691662	0.640770778
220	Kogel Bay	0.0696	0.04519	0.04519	0.000142133	2610	0.000370966	0.064651993	0.602426667
221	Kogel Bay	0.17528	0.0964	0.0964	0.00162887	2610	0.004251351	0.137916621	1.517145778
222	Kogel Bay	0.1552	0.0879	0.0879	0.001199139	2610	0.003129752	0.125755923	1.343342222
223	Kogel Bay	0.0425	0.0308	0.0308	4.03172E-05	2610	0.000105228	0.044064646	0.367861111
224	Kogel Bay	0.23694	0.16129	0.16129	0.006163867	2610	0.016087693	0.230752819	2.050847333
225	Kogel Bay	0.06309	0.03113	0.03113	6.11391E-05	2610	0.000159573	0.044536768	0.546079
226	Kogel Bay	0.09708	0.0391	0.0391	0.000148417	2610	0.000387368	0.05593921	0.840281333
227	Kogel Bay	0.11739	0.05608	0.05608	0.000369188	2610	0.00096358	0.080231993	1.016075667
228	Kogel Bay	0.14947	0.05465	0.05465	0.00044641	2610	0.001165131	0.078186134	1.293745889
229	Kogel Bay	0.07022	0.03421	0.03421	8.21802E-05	2610	0.00021449	0.048943232	0.607793111
230	Kogel Bay	0.15	0.08399	0.08399	0.001058148	2610	0.002761766	0.120162002	1.298333333
231	Kogel Bay	0.10118	0.09807	0.09807	0.000973121	2610	0.002539847	0.14030584	0.875769111
232	Kogel Bay	0.05022	0.04018	0.04018	8.10768E-05	2610	0.00021161	0.057484334	0.434682
233	Kogel Bay	0.04835	0.04797	0.04797	0.000111259	2610	0.000290387	0.068629256	0.418496111
234	Kogel Bay	0.08737	0.06061	0.06061	0.00032096	2610	0.000837706	0.086712929	0.756235889
235	Kogel Bay	0.34099	0.20699	0.20699	0.014609669	2610	0.038131236	0.296134454	2.951457889
236	Kogel Bay	0.27509	0.11931	0.11931	0.003915872	2610	0.010220426	0.170693278	2.381056778
237	Kogel Bay	0.24267	0.10651	0.10651	0.002752941	2610	0.007185175	0.152380698	2.100443667
238	Kogel Bay	0.33408	0.06729	0.06729	0.001512696	2610	0.003948135	0.096269807	2.891648
239	Kogel Bay	0.18106	0.15301	0.15301	0.004238988	2610	0.011063758	0.218906869	1.567174889
240	Kogel Bay	0.27598	0.10009	0.10009	0.00276477	2610	0.007216049	0.143195794	2.388760222
241	Kogel Bay	0.24599	0.21125	0.21125	0.010977688	2610	0.028651766	0.302229109	2.129180111
242	Kogel Bay	0.10662	0.10102	0.10102	0.001088061	2610	0.00283984	0.144526318	0.922855333
243	Kogel Bay	0.28731	0.14506	0.14506	0.006045693	2610	0.015779259	0.207533039	2.486827667
244	Kogel Bay	0.22448	0.14168	0.14168	0.004506037	2610	0.011760756	0.202697374	1.942999111
245	Kogel Bay	0.20534	0.09356	0.09356	0.001797438	2610	0.004691314	0.133853517	1.777331778
246	Kogel Bay	0.10218	0.05219	0.05219	0.000278317	2610	0.000726409	0.074666685	0.884424667
247	Kogel Bay	0.11671	0.08497	0.08497	0.000842635	2610	0.002199276	0.121564059	1.010189889
248	Kogel Bay	0.2623	0.24277	0.24277	0.015459247	2610	0.040348634	0.347323838	2.270352222
249	Kogel Bay	0.17187	0.08706	0.08706	0.001302679	2610	0.003399992	0.12455416	1.487630333
250	Kogel Bay	0.13449	0.10302	0.10302	0.001427359	2610	0.003725406	0.147387658	1.164085667
251	Kogel Bay	0.09767	0.0559	0.0559	0.0003052	2610	0.000796573	0.079974472	0.845388111
252	Kogel Bay	0.09044	0.07599	0.07599	0.000522244	2610	0.001363057	0.108716639	0.782808444
253	Kogel Bay	0.13213	0.09678	0.09678	0.001237578	2610	0.003230079	0.138460275	1.143658556
254	Kogel Bay	0.13104	0.08935	0.08935	0.001046148	2610	0.002730445	0.127830395	1.134224
255	Kogel Bay	0.12081	0.0811	0.0811	0.000794593	2610	0.002073887	0.116027365	1.045677667
256	Kogel Bay	0.25317	0.16775	0.16775	0.00712422	2610	0.018594213	0.239994949	2.191327
257	Kogel Bay	0.35688	0.17753	0.17753	0.011247752	2610	0.029356632	0.253986905	3.088994667
258	Kogel Bay	0.12581	0.05956	0.05956	0.000446298	2610	0.001164837	0.085210725	1.088955444
259	Kogel Bay	0.05611	0.04848	0.04848	0.000131876	2610	0.000344196	0.069358898	0.485663222
260	Kogel Bay	0.17536	0.10185	0.10185	0.001819083	2610	0.004747808	0.145713774	1.517838222
261	Kogel Bay	0.10458	0.05358	0.05358	0.000300023	2610	0.0007836	0.076655317	0.905198
262	Kogel Bay	0.23311	0.13464	0.13464	0.004225802	2610	0.011029342	0.192625455	2.017696556
263	Kogel Bay	0.24472	0.10971	0.10971	0.002945519	2610	0.007687806	0.156958843	2.118187556
264	Kogel Bay	0.11562	0.08556	0.08556	0.000846398	2610	0.002209098	0.122408154	1.000755333
265	Kogel Bay	0.17967	0.06598	0.06598	0.000782168	2610	0.002041459	0.094395629	1.555143667
266	Kogel Bay	0.06944	0.06852	0.06852	0.00032602	2610	0.000850913	0.098029532	0.601041778
267	Kogel Bay	0.09572	0.06919	0.06919	0.000458236	2610	0.001195996	0.098988081	0.828509778
268	Kogel Bay	0.17366	0.09016	0.09016	0.001411652	2610	0.003684411	0.128989238	1.503123778
269	Kogel Bay	0.18358	0.09881	0.09881	0.001792368	2610	0.00467808	0.141364536	1.588986889

270 Kogel Bay	0.80148	0.47856	0.47856	0.183554688	2610	0.479077736	0.684661598	6.937254667
271 Kogel Bay	0.20204	0.07185	0.07185	0.001043016	2610	0.002722271	0.102793664	1.748768444
272 Kogel Bay	0.07574	0.06612	0.06612	0.000331124	2610	0.000864234	0.094595923	0.655571778
273 Kogel Bay	0.09437	0.07129	0.07129	0.000479613	2610	0.001251791	0.101992489	0.816824778
274 Kogel Bay	0.20941	0.13037	0.13037	0.003559203	2610	0.00928952	0.186516492	1.812559889
275 Kogel Bay	0.1109	0.09135	0.09135	0.000925441	2610	0.002415401	0.130691736	0.959901111
276 Kogel Bay	0.10372	0.06794	0.06794	0.000478755	2610	0.001249551	0.097199743	0.897754222
277 Kogel Bay	0.32662	0.22287	0.22287	0.016223554	2610	0.042343476	0.318853499	2.827077556
278 Kogel Bay	0.11477	0.06834	0.06834	0.000536017	2610	0.001399004	0.097772011	0.993398111
279 Kogel Bay	0.08972	0.08331	0.08331	0.000622707	2610	0.001625264	0.119189146	0.776576444
280 Kogel Bay	0.09864	0.05517	0.05517	0.000300233	2610	0.000783609	0.078930083	0.853784
281 Kogel Bay	0.0974	0.05569	0.05569	0.000302074	2610	0.000788413	0.079674031	0.843051111
282 Kogel Bay	0.18756	0.08745	0.08745	0.001434366	2610	0.003743694	0.125112121	1.623436
283 Kogel Bay	0.14077	0.07938	0.07938	0.000887018	2610	0.002315116	0.113566612	1.218442556
284 Kogel Bay	0.15482	0.11613	0.11613	0.00208793	2610	0.005449497	0.166143747	1.340053111
285 Kogel Bay	0.20005	0.08104	0.08104	0.001313825	2610	0.003429082	0.115941524	1.731543889
286 Kogel Bay	0.11324	0.07671	0.07671	0.000666352	2610	0.001739179	0.109746722	0.980155111
287 Kogel Bay	0.30206	0.2359	0.2359	0.01680928	2610	0.04387222	0.337495133	2.614497111
288 Kogel Bay	0.10722	0.08075	0.08075	0.000699135	2610	0.001824742	0.11552663	0.928048667
289 Kogel Bay	0.18763	0.06976	0.06976	0.000913093	2610	0.002383174	0.099803563	1.624041889
290 Kogel Bay	0.15481	0.04318	0.04318	0.000288645	2610	0.000753364	0.061776345	1.339966556
291 Kogel Bay	0.19254	0.06038	0.06038	0.000701952	2610	0.001832094	0.086383875	1.666540667
292 Kogel Bay	0.15472	0.05462	0.05462	0.000461583	2610	0.001204732	0.078143214	1.339187556
293 Kogel Bay	0.12835	0.08789	0.08789	0.000991459	2610	0.002587708	0.125741616	1.110940556
294 Kogel Bay	0.10541	0.08844	0.08844	0.000824478	2610	0.002151889	0.126528485	0.912382111
295 Kogel Bay	0.13093	0.11543	0.11543	0.001744522	2610	0.004553204	0.165142277	1.133271889
296 Kogel Bay	0.21168	0.08521	0.08521	0.001536954	2610	0.004011451	0.12190742	1.832208
297 Kogel Bay	0.20861	0.14287	0.14287	0.004258113	2610	0.011113676	0.204399871	1.805635444
298 Kogel Bay	0.18975	0.07097	0.07097	0.000955722	2610	0.002494433	0.101534674	1.642391667
299 Kogel Bay	0.08468	0.05525	0.05525	0.000258491	2610	0.000674661	0.079044536	0.732952444
300 Kogel Bay	0.20596	0.07239	0.07239	0.001079295	2610	0.002816959	0.103566226	1.782698222
301 Kogel Bay	0.1677	0.13344	0.13344	0.002986105	2610	0.007793735	0.19090865	1.451536667
302 Kogel Bay	0.11816	0.07056	0.07056	0.000588285	2610	0.001535423	0.100948099	1.022740444
303 Kogel Bay	0.24549	0.10102	0.10102	0.002505235	2610	0.006538664	0.144526318	2.124852333
304 Kogel Bay	0.44053	0.22925	0.22925	0.023152302	2610	0.060427508	0.327981175	3.813031889
305 Kogel Bay	0.13985	0.07753	0.07753	0.000840624	2610	0.00219403	0.110919871	1.210479444
306 Kogel Bay	0.32691	0.18651	0.18651	0.011371885	2610	0.029680619	0.266834325	2.829587667
307 Kogel Bay	0.17986	0.11503	0.11503	0.00237989	2610	0.006211512	0.164570009	1.556788222
308 Kogel Bay	2.37739	0.92733	0.92733	2.044414965	2610	5.335923059	1.326703526	20.57763122
309 Kogel Bay	0.12247	0.04015	0.04015	0.000197424	2610	0.000515278	0.057441414	1.060045889
310 Kogel Bay	0.0686	0.05203	0.05203	0.000185708	2610	0.000484699	0.074437778	0.593771111
311 Kogel Bay	0.06636	0.06635	0.06635	0.000292138	2610	0.00076248	0.094924977	0.574382667
312 Kogel Bay	0.12677	0.06547	0.06547	0.000543377	2610	0.001418214	0.093665987	1.097264778
313 Kogel Bay	0.11454	0.09631	0.09631	0.001062429	2610	0.00277294	0.13778786	0.991407333
314 Kogel Bay	0.25861	0.161	0.161	0.00670343	2610	0.017495952	0.230337925	2.238413222
315 Kogel Bay	0.25316	0.20183	0.20183	0.010312561	2610	0.026915784	0.288752195	2.191240444
316 Kogel Bay	0.21861	0.09779	0.09779	0.002090542	2610	0.005456315	0.139905253	1.892191
317 Kogel Bay	0.16067	0.13621	0.13621	0.002980937	2610	0.007780245	0.194871607	1.390688111
318 Kogel Bay	0.13719	0.06213	0.06213	0.000529572	2610	0.001382183	0.088887548	1.187455667
319 Kogel Bay	0.16653	0.11868	0.11868	0.002345565	2610	0.006121926	0.169791956	1.441409667
320 Kogel Bay	0.21844	0.10806	0.10806	0.002550716	2610	0.006657369	0.154598237	1.890719556
321 Kogel Bay	0.18474	0.07423	0.07423	0.001017935	2610	0.002656809	0.106198659	1.599027333

322	Kogel Bay	0.17777	0.12764	0.12764	0.002896223	2610	0.007559143	0.182610762	1.538698111
323	Kogel Bay	0.13965	0.09135	0.09135	0.001165354	2610	0.003041575	0.130691736	1.208748333
324	Kogel Bay	0.128	0.10866	0.10866	0.001511295	2610	0.003944481	0.155456639	1.107911111
325	Kogel Bay	0.18145	0.08023	0.08023	0.001167967	2610	0.003048394	0.114782681	1.570550556
326	Kogel Bay	0.276	0.09902	0.09902	0.002706169	2610	0.007063101	0.141664977	2.388933333
327	Kogel Bay	0.12131	0.06531	0.06531	0.000517435	2610	0.001350506	0.09343708	1.050005444
328	Kogel Bay	0.12477	0.06029	0.06029	0.000453524	2610	0.001183699	0.086255115	1.079953667
329	Kogel Bay	0.15221	0.10034	0.10034	0.001532468	2610	0.003999741	0.143553462	1.317462111
330	Kogel Bay	0.07271	0.04082	0.04082	0.000121155	2610	0.000316214	0.058399963	0.629345444
331	Kogel Bay	0.17793	0.0833	0.0833	0.001234637	2610	0.003222402	0.119174839	1.540083
332	Kogel Bay	0.22874	0.1091	0.1091	0.002722649	2610	0.007106113	0.156086134	1.979871778
333	Kogel Bay	0.10073	0.07581	0.07581	0.000578911	2610	0.001510958	0.108459118	0.871874111
334	Kogel Bay	0.2061	0.12273	0.12273	0.003104413	2610	0.008102517	0.175586171	1.78391
335	Kogel Bay	0.2473	0.11489	0.11489	0.003264289	2610	0.008519794	0.164369715	2.140518889
336	Kogel Bay	0.1868	0.09245	0.09245	0.00159658	2610	0.004167074	0.132265473	1.616857778
337	Kogel Bay	0.13015	0.10124	0.10124	0.001333977	2610	0.003481681	0.144841065	1.126520556
338	Kogel Bay	0.12963	0.12847	0.12847	0.002139484	2610	0.005584052	0.183798219	1.122019667
339	Kogel Bay	0.13036	0.11177	0.11177	0.001628527	2610	0.004250454	0.159906024	1.128338222
340	Kogel Bay	0.10687	0.05384	0.05384	0.000309789	2610	0.000808549	0.077027291	0.925019222
341	Kogel Bay	0.08712	0.04779	0.04779	0.000198972	2610	0.000519317	0.068371736	0.754072
342	Kogel Bay	0.05169	0.04672	0.04672	0.000112827	2610	0.000294478	0.066840918	0.447405667
343	Kogel Bay	0.10839	0.06592	0.06592	0.000471003	2610	0.001229318	0.094309789	0.938175667
344	Kogel Bay	0.09057	0.05952	0.05952	0.000320856	2610	0.000837434	0.085153499	0.783933667
345	Kogel Bay	0.18682	0.05394	0.05394	0.000543557	2610	0.001418684	0.077170358	1.617030889
346	Kogel Bay	0.09547	0.08063	0.08063	0.000620669	2610	0.001619947	0.115354949	0.826345889
347	Kogel Bay	0.07727	0.05686	0.05686	0.000249819	2610	0.000652026	0.081347916	0.668814778
348	Kogel Bay	0.34674	0.11445	0.11445	0.004541879	2610	0.011854304	0.16374022	3.001227333
349	Kogel Bay	0.10839	0.06662	0.06662	0.000481059	2610	0.001255564	0.095311258	0.938175667
350	Kogel Bay	0.10423	0.06078	0.06078	0.000385047	2610	0.001004974	0.086956143	0.902168556
351	Kogel Bay	0.10679	0.05328	0.05328	0.000303151	2610	0.000791224	0.076226116	0.924326778
352	Kogel Bay	0.67928	0.20778	0.20778	0.029326235	2610	0.076541474	0.297264683	5.879545778
353	Kogel Bay	0.2158	0.12717	0.12717	0.003489963	2610	0.009108803	0.181938347	1.867868889
354	Kogel Bay	0.11117	0.07562	0.07562	0.000635713	2610	0.00165921	0.108187291	0.962238111
355	Kogel Bay	0.08938	0.06355	0.06355	0.00036097	2610	0.000942132	0.0909191	0.773633556
356	Kogel Bay	0.07148	0.0498	0.0498	0.000177273	2610	0.000462683	0.071247383	0.618699111
357	Kogel Bay	0.1252	0.09824	0.09824	0.001208317	2610	0.003153708	0.140549054	1.083675556
358	Kogel Bay	0.0741	0.07097	0.07097	0.000373223	2610	0.000974111	0.101534674	0.641376667
359	Kogel Bay	0.23043	0.12181	0.12181	0.003419046	2610	0.008923709	0.174269954	1.994499667
360	Kogel Bay	0.07718	0.04174	0.04174	0.000134465	2610	0.000350954	0.05971618	0.668035778
361	Kogel Bay	0.0775	0.05125	0.05125	0.000203559	2610	0.000531288	0.073321855	0.670805556
362	Kogel Bay	0.12705	0.08702	0.08702	0.000962084	2610	0.002511038	0.124496933	1.099688333
363	Kogel Bay	0.09357	0.07117	0.07117	0.000473948	2610	0.001237004	0.101820808	0.809900333
364	Kogel Bay	0.17928	0.12916	0.12916	0.002990804	2610	0.007805998	0.184785381	1.551768
365	Kogel Bay	0.08744	0.05663	0.05663	0.000280416	2610	0.000731887	0.081018861	0.756841778
366	Kogel Bay	0.11904	0.08292	0.08292	0.000818486	2610	0.00213625	0.118631185	1.030357333
367	Kogel Bay	0.22467	0.11198	0.11198	0.002817254	2610	0.007353033	0.160206465	1.944643667
368	Kogel Bay	0.17503	0.08443	0.08443	0.001247688	2610	0.003256466	0.120791497	1.514981889
369	Kogel Bay	0.08901	0.06158	0.06158	0.000337535	2610	0.000880965	0.08810068	0.770431
370	Kogel Bay	0.17915	0.07539	0.07539	0.001018226	2610	0.002657571	0.107858237	1.550642778
371	Kogel Bay	0.12822	0.10709	0.10709	0.001470461	2610	0.003837904	0.153210487	1.109815333
372	Kogel Bay	0.13285	0.09704	0.09704	0.001251017	2610	0.003265154	0.13883225	1.149890556
373	Kogel Bay	0.09651	0.06083	0.06083	0.000357115	2610	0.00093207	0.087027677	0.835347667

374	Kogel Bay	0.08482	0.04953	0.04953	0.000208082	2610	0.000543095	0.070861102	0.734164222
375	Kogel Bay	0.06697	0.03923	0.03923	0.000103066	2610	0.000269003	0.056125197	0.579662556
376	Kogel Bay	0.07372	0.03285	0.03285	7.95529E-05	2610	0.000207633	0.046997521	0.638087556
377	Kogel Bay	0.15101	0.1089	0.1089	0.001790859	2610	0.004674143	0.1558	1.307075444
378	Kogel Bay	0.07711	0.06655	0.06655	0.000341513	2610	0.000891348	0.095211111	0.667429889
379	Kogel Bay	0.78254	0.57814	0.57814	0.261560755	2610	0.68267357	0.82712775	6.773318444
380	Kogel Bay	0.31184	0.28079	0.28079	0.024586409	2610	0.064170527	0.401717925	2.699148444
381	Kogel Bay	0.09445	0.04233	0.04233	0.000169238	2610	0.000441712	0.060560275	0.817517222
382	Kogel Bay	0.12231	0.04951	0.04951	0.000299811	2610	0.000782507	0.070832489	1.058661
383	Kogel Bay	0.16265	0.06842	0.06842	0.000761413	2610	0.001987288	0.097886465	1.407826111
384	Kogel Bay	0.18483	0.0961	0.0961	0.001706944	2610	0.004455123	0.13748742	1.599806333
385	Kogel Bay	0.20813	0.0837	0.0837	0.001458094	2610	0.003805626	0.119747107	1.801480778
386	Kogel Bay	0.08254	0.06908	0.06908	0.000393885	2610	0.001028039	0.098830707	0.714429556
387	Kogel Bay	0.06012	0.05251	0.05251	0.000165769	2610	0.000432657	0.0751245	0.520372
388	Kogel Bay	0.06155	0.05658	0.05658	0.00019704	2610	0.000514274	0.080947328	0.532749444
389	Kogel Bay	0.10099	0.05476	0.05476	0.000302834	2610	0.000790398	0.078343508	0.874124556
390	Kogel Bay	0.12371	0.09389	0.09389	0.001090545	2610	0.002846322	0.134325638	1.070778778
391	Kogel Bay	0.05208	0.04858	0.04858	0.000122291	2610	0.000320794	0.069501965	0.450781333
392	Kogel Bay	0.09249	0.02457	0.02457	5.58348E-05	2610	0.000145729	0.03515157	0.800552333
393	Kogel Bay	0.12371	0.08887	0.08887	0.000977046	2610	0.002550091	0.127143673	1.070778778
394	Kogel Bay	0.10408	0.05674	0.05674	0.000335078	2610	0.000874554	0.081176235	0.900870222
395	Kogel Bay	0.06934	0.0482	0.0482	0.000161093	2610	0.000420454	0.06895831	0.600176222
396	Kogel Bay	0.07165	0.05035	0.05035	0.000181642	2610	0.000474084	0.072034252	0.620170556
397	Kogel Bay	0.13557	0.05938	0.05938	0.000478018	2610	0.001247626	0.084953205	1.173433667
398	Kogel Bay	0.05101	0.03402	0.03402	5.9037E-05	2610	0.000154086	0.048671405	0.441519889
399	Kogel Bay	0.10323	0.05698	0.05698	0.000335159	2610	0.000874765	0.081519596	0.893513
400	Kogel Bay	0.07457	0.0459	0.0459	0.000157105	2610	0.000410044	0.065667769	0.645444778
401	Kogel Bay	0.11201	0.05703	0.05703	0.000364304	2610	0.000950833	0.081591129	0.969508778
402	Kogel Bay	0.05549	0.04462	0.04462	0.000110478	2610	0.000288346	0.063836511	0.480296778
403	Kogel Bay	0.11004	0.06305	0.06305	0.000437442	2610	0.001141724	0.090203765	0.952457333
404	Kogel Bay	0.11356	0.08561	0.08561	0.000832289	2610	0.002172275	0.122479688	0.982924889
405	Kogel Bay	0.08135	0.07456	0.07456	0.00045224	2610	0.001180347	0.106670781	0.704129444
406	Kogel Bay	0.07129	0.05501	0.05501	0.000215731	2610	0.000563057	0.078701175	0.617054556
407	Kogel Bay	0.10433	0.05133	0.05133	0.000274885	2610	0.000717451	0.073436309	0.903034111
408	Kogel Bay	0.07808	0.05386	0.05386	0.000226502	2610	0.000591171	0.077055904	0.675825778
409	Kogel Bay	0.05628	0.0406	0.0406	9.27697E-05	2610	0.000242129	0.058085216	0.487134667
410	Kogel Bay	0.08162	0.0485	0.0485	0.000191991	2610	0.000501096	0.069387511	0.706466444
411	Kogel Bay	0.19404	0.06226	0.06226	0.000752159	2610	0.001963134	0.089073535	1.679524
412	Kogel Bay	0.07991	0.06916	0.06916	0.000382218	2610	0.000997589	0.098945161	0.691665444
413	Kogel Bay	0.10969	0.0735	0.0735	0.000592573	2610	0.001546615	0.10515427	0.949427889
414	Kogel Bay	0.12692	0.06242	0.06242	0.000494513	2610	0.001290679	0.089302443	1.098563111
415	Kogel Bay	0.20305	0.11908	0.11908	0.002879258	2610	0.007514864	0.170364224	1.757510556
416	Kogel Bay	0.08723	0.05502	0.05502	0.000264063	2610	0.000689204	0.078715482	0.755024111
417	Kogel Bay	0.06291	0.05837	0.05837	0.000214338	2610	0.000559422	0.083508228	0.544521
418	Kogel Bay	0.12426	0.06387	0.06387	0.000506903	2610	0.001323018	0.091376915	1.075539333
419	Kogel Bay	0.12245	0.08114	0.08114	0.000806174	2610	0.002104114	0.116084591	1.059872778
420	Kogel Bay	0.10008	0.0439	0.0439	0.000192875	2610	0.000503404	0.062806428	0.866248
421	Kogel Bay	0.06615	0.06068	0.06068	0.000243568	2610	0.000635714	0.086813076	0.572565
422	Kogel Bay	0.0866	0.04464	0.04464	0.00017257	2610	0.000450409	0.063865124	0.749571111
423	Kogel Bay	0.09994	0.0474	0.0474	0.000224541	2610	0.000586053	0.067813774	0.865036222
424	Kogel Bay	0.10099	0.083	0.083	0.00069572	2610	0.001815829	0.118745638	0.874124556
425	Kogel Bay	0.23395	0.13443	0.13443	0.00422781	2610	0.011034584	0.192325014	2.024967222

426	Kogel Bay	0.14292	0.10241	0.10241	0.001498918	2610	0.003912175	0.146514949	1.237052
427	Kogel Bay	0.09845	0.09084	0.09084	0.0008124	2610	0.002120364	0.129962094	0.852139444
428	Kogel Bay	0.86374	0.51434	0.51434	0.228498647	2610	0.596381469	0.735850983	7.476149556
429	Kogel Bay	1.59803	1.12321	1.12321	2.016075773	2610	5.261957768	1.606943232	13.83183744
430	Kogel Bay	0.16553	0.14794	0.14794	0.00362283	2610	0.009455586	0.21165337	1.432754111
431	Kogel Bay	0.05582	0.04756	0.04756	0.000126262	2610	0.000329544	0.068042681	0.483153111
432	Kogel Bay	0.11405	0.05304	0.05304	0.00032085	2610	0.000837419	0.075882755	0.987166111
433	Kogel Bay	0.06243	0.05869	0.05869	0.000215041	2610	0.000561257	0.083966042	0.540366333
434	Kogel Bay	0.06664	0.06215	0.06215	0.000257405	2610	0.000671827	0.088916162	0.576806222
435	Kogel Bay	0.15678	0.09976	0.09976	0.001560284	2610	0.00407234	0.142723673	1.357018
436	Kogel Bay	0.13701	0.04711	0.04711	0.000304073	2610	0.000793632	0.06739888	1.185897667
437	Kogel Bay	0.104	0.04207	0.04207	0.000184068	2610	0.000480418	0.060188301	0.900177778
438	Kogel Bay	0.20154	0.13108	0.13108	0.003462854	2610	0.009038048	0.187532268	1.744440667
439	Kogel Bay	0.17116	0.07538	0.07538	0.000972556	2610	0.002538371	0.10784393	1.481484889
440	Kogel Bay	0.08682	0.05674	0.05674	0.000279511	2610	0.000729523	0.081176235	0.751475333
441	Kogel Bay	0.17104	0.08481	0.08481	0.001230246	2610	0.003210941	0.121335152	1.480446222
442	Kogel Bay	0.12535	0.07161	0.07161	0.000642794	2610	0.001677692	0.102450303	1.084973889
443	Kogel Bay	0.17239	0.1074	0.1074	0.001988477	2610	0.005189926	0.153653994	1.492131222
444	Kogel Bay	0.31232	0.1477	0.1477	0.006813351	2610	0.017782847	0.211310009	2.703303111
445	Kogel Bay	0.40193	0.11179	0.11179	0.005022921	2610	0.013109823	0.159934637	3.478927444
446	Kogel Bay	0.09091	0.05658	0.05658	0.00029103	2610	0.000759588	0.080947328	0.786876556
447	Kogel Bay	0.22479	0.05784	0.05784	0.000752027	2610	0.001962791	0.082749972	1.945682333
448	Kogel Bay	0.09079	0.04829	0.04829	0.000211715	2610	0.000552577	0.069087071	0.785837889
449	Kogel Bay	0.09999	0.09417	0.09417	0.00088671	2610	0.002314314	0.134726226	0.865469
450	Kogel Bay	0.10643	0.05405	0.05405	0.000310925	2610	0.000811514	0.077327732	0.921210778
451	Kogel Bay	0.07435	0.04431	0.04431	0.000145977	2610	0.000381	0.063393003	0.643540556
452	Kogel Bay	0.17412	0.07383	0.07383	0.000949105	2610	0.002477165	0.105626391	1.507105333
453	Kogel Bay	0.10746	0.07721	0.07721	0.00064061	2610	0.001671993	0.110462057	0.930126
454	Kogel Bay	0.09527	0.0593	0.0593	0.000335016	2610	0.000874392	0.084838751	0.824614778
455	Kogel Bay	0.11143	0.11051	0.11051	0.001360834	2610	0.003551778	0.158103379	0.964488556
456	Kogel Bay	0.21262	0.07807	0.07807	0.001295903	2610	0.003382307	0.111692433	1.840344222
457	Kogel Bay	0.10818	0.05103	0.05103	0.000281707	2610	0.000735256	0.073007107	0.936358
458	Kogel Bay	0.08896	0.07387	0.07387	0.000485435	2610	0.001266985	0.105683618	0.769998222
459	Kogel Bay	0.06844	0.03607	0.03607	8.90435E-05	2610	0.000232404	0.051604279	0.592386222
460	Kogel Bay	0.07991	0.05021	0.05021	0.000201457	2610	0.000525802	0.071833958	0.691665444
461	Kogel Bay	0.11207	0.04057	0.04057	0.000184459	2610	0.000481437	0.058042296	0.970028111
462	Kogel Bay	0.08764	0.03903	0.03903	0.000133506	2610	0.00034845	0.055839063	0.758572889
463	Kogel Bay	0.07041	0.04257	0.04257	0.000127597	2610	0.000333029	0.060903636	0.609437667
464	Kogel Bay	0.27353	0.11031	0.11031	0.003328394	2610	0.008687108	0.157817245	2.367554111
465	Kogel Bay	0.20305	0.08065	0.08065	0.001320723	2610	0.003447087	0.115383563	1.757510556
466	Kogel Bay	0.07732	0.03458	0.03458	9.24574E-05	2610	0.000241314	0.04947258	0.669247556
467	Kogel Bay	0.1481	0.03548	0.03548	0.000186433	2610	0.00048659	0.050760184	1.281887778
468	Kogel Bay	0.15398	0.09463	0.09463	0.001378866	2610	0.00359884	0.135384334	1.332782444
469	Kogel Bay	0.10184	0.06429	0.06429	0.000420926	2610	0.001098616	0.091977796	0.881481778
470	Kogel Bay	0.10216	0.0923	0.0923	0.000870331	2610	0.002271563	0.132050872	0.884251556
471	Kogel Bay	0.08958	0.0466	0.0466	0.000194528	2610	0.000507719	0.066669238	0.775364667
472	Kogel Bay	0.19966	0.09878	0.09878	0.00194818	2610	0.00508475	0.141321616	1.728168222
473	Kogel Bay	0.13319	0.07896	0.07896	0.000830397	2610	0.002167337	0.11296573	1.152833444
474	Kogel Bay	0.10612	0.10129	0.10129	0.001088756	2610	0.002841652	0.144912599	0.918527556
475	Kogel Bay	0.15119	0.10154	0.10154	0.001558825	2610	0.004068533	0.145270266	1.308633444
476	Kogel Bay	0.07207	0.05555	0.05555	0.000222394	2610	0.000580448	0.079473737	0.623805889
477	Kogel Bay	0.11717	0.07263	0.07263	0.000618085	2610	0.001613203	0.103909587	1.014171444

478	Kogel Bay	0.08702	0.04651	0.04651	0.00018824	2610	0.000491306	0.066540478	0.753206444
479	Kogel Bay	0.09902	0.09612	0.09612	0.000914851	2610	0.002387762	0.137516033	0.857073111
480	Kogel Bay	0.37127	0.19865	0.19865	0.014650991	2610	0.038239086	0.284202663	3.213548111
481	Kogel Bay	0.18087	0.12159	0.12159	0.002674005	2610	0.006979154	0.173955207	1.565530333
482	Kogel Bay	0.34956	0.31281	0.31281	0.03420448	2610	0.089273692	0.447527989	3.025636
483	Kogel Bay	0.31893	0.09977	0.09977	0.003174646	2610	0.008285826	0.14273798	2.760516333
484	Kogel Bay	0.73134	0.38934	0.38934	0.110860639	2610	0.289346267	0.55701719	6.330154
485	Kogel Bay	0.14102	0.11365	0.11365	0.00182146	2610	0.00475401	0.162595684	1.220606444
486	Kogel Bay	0.17683	0.09932	0.09932	0.001744333	2610	0.004552709	0.142094178	1.530561889
487	Kogel Bay	0.19679	0.08912	0.08912	0.00156298	2610	0.004079377	0.127501341	1.703326778
488	Kogel Bay	0.21627	0.13118	0.13118	0.003721616	2610	0.009713417	0.187675335	1.871937
489	Kogel Bay	0.45713	0.2276	0.2276	0.023680139	2610	0.061805162	0.325620569	3.956714111
490	Kogel Bay	0.31557	0.27444	0.27444	0.023767885	2610	0.062034179	0.392633168	2.731433667
491	Kogel Bay	0.23457	0.16515	0.16515	0.006397785	2610	0.016698218	0.236275207	2.030333667
492	Kogel Bay	0.41195	0.27874	0.27874	0.032006862	2610	0.08353791	0.398785051	3.565656111
493	Kogel Bay	0.15328	0.10285	0.10285	0.001621415	2610	0.004231892	0.147144444	1.326723556
494	Kogel Bay	0.42058	0.21245	0.21245	0.018982879	2610	0.049545315	0.303945914	3.640353556
495	Kogel Bay	0.54199	0.53924	0.53924	0.157599732	2610	0.4113353	0.771474674	4.691224556
496	Kogel Bay	0.08138	0.06124	0.06124	0.000305202	2610	0.000796578	0.087614252	0.704389111
497	Kogel Bay	0.11479	0.04823	0.04823	0.000267017	2610	0.000696914	0.06900123	0.993571222
498	Kogel Bay	0.10838	0.04396	0.04396	0.000209442	2610	0.000546645	0.062892268	0.938089111
499	Kogel Bay	0.15065	0.11916	0.11916	0.002139095	2610	0.005583039	0.170478678	1.303959444
500	Kogel Bay	0.16004	0.10671	0.10671	0.001822379	2610	0.00475641	0.152666832	1.385235111
501	Kogel Bay	0.26718	0.10128	0.10128	0.002740636	2610	0.00715306	0.144898292	2.312591333
502	Kogel Bay	0.07532	0.04718	0.04718	0.000167659	2610	0.000437589	0.067499027	0.651936444
503	Kogel Bay	0.10548	0.07053	0.07053	0.000524708	2610	0.001369489	0.100905179	0.912988
504	Kogel Bay	0.27975	0.26684	0.26684	0.019919203	2610	0.05198912	0.381760073	2.421391667
505	Kogel Bay	0.27165	0.15139	0.15139	0.006225928	2610	0.016249672	0.216589183	2.351281667
506	Kogel Bay	0.19098	0.14078	0.14078	0.003785034	2610	0.009878939	0.20140977	1.653038
507	Kogel Bay	0.22742	0.0966	0.0966	0.002122183	2610	0.005538899	0.138202755	1.968446444
508	Kogel Bay	0.334	0.1718	0.1718	0.00985809	2610	0.025729615	0.245789164	2.890955556
509	Kogel Bay	0.60934	0.4593	0.4593	0.128544228	2610	0.335500434	0.657106887	5.274176222
510	Kogel Bay	0.73854	0.56939	0.56939	0.23943834	2610	0.624934068	0.814609385	6.392474
511	Kogel Bay	0.45764	0.366	0.366	0.061303624	2610	0.160002458	0.523625344	3.961128444
512	Kogel Bay	0.24785	0.14719	0.14719	0.005369644	2610	0.014014772	0.210580367	2.145279444
513	Kogel Bay	0.2737	0.19728	0.19728	0.010652239	2610	0.027802345	0.282242645	2.369025556
514	Kogel Bay	0.22978	0.17174	0.17174	0.006777276	2610	0.017688689	0.245703324	1.988873556
515	Kogel Bay	0.72832	0.31837	0.31837	0.07382212	2610	0.192675732	0.455482516	6.304014222
516	Kogel Bay	0.33544	0.19797	0.19797	0.013146605	2610	0.034312639	0.283229807	2.903419556
517	Kogel Bay	0.34957	0.19083	0.19083	0.012729972	2610	0.033225227	0.273014821	3.025722556
1	Kogel Bay	0.27293	0.19446	0.19446	0.010320764	2610	0.026937193	0.278208154	2.362360778
2	Kogel Bay	0.28409	0.18219	0.18219	0.009429855	2610	0.024611922	0.260653829	2.458956778
3	Kogel Bay	0.18066	0.11253	0.11253	0.002287698	2610	0.005970891	0.160993333	1.563712667
4	Kogel Bay	0.18771	0.11156	0.11156	0.00233617	2610	0.006097403	0.159605583	1.624734333
5	Kogel Bay	0.26204	0.177	0.177	0.008209451	2610	0.021426668	0.25322865	2.268101778
6	Kogel Bay	0.17564	0.09846	0.09846	0.001702719	2610	0.004444098	0.140863802	1.520261778
7	Kogel Bay	0.27104	0.14119	0.14119	0.005403078	2610	0.014102034	0.201996345	2.346001778
8	Kogel Bay	0.39153	0.2882	0.2882	0.032520184	2610	0.084877681	0.412319192	3.388909667
9	Kogel Bay	0.12235	0.08811	0.08811	0.000949849	2610	0.002479105	0.126056364	1.059007222
10	Kogel Bay	0.24877	0.14404	0.14404	0.005161361	2610	0.013471152	0.206073756	2.153242556
11	Kogel Bay	0.76769	0.59677	0.59677	0.273400843	2610	0.7135762	0.853781139	6.644783444
12	Kogel Bay	0.23608	0.13852	0.13852	0.004529854	2610	0.011822918	0.198176455	2.043403556

13	Kogel Bay	0.33816	0.20289	0.20289	0.013920137	2610	0.036331558	0.290268705	2.926962667
14	Kogel Bay	1.16123	0.65949	0.65949	0.50505035	2610	1.318181413	0.943512782	10.05109078
15	Kogel Bay	1.40031	0.5633	0.5633	0.444328011	2610	1.159696109	0.805896602	12.120461
16	Kogel Bay	0.93282	0.53832	0.53832	0.270320436	2610	0.705536338	0.770158457	8.074075333
17	Kogel Bay	0.21366	0.09503	0.09503	0.0019295	2610	0.005035994	0.135956602	1.849346
18	Kogel Bay	0.15367	0.07548	0.07548	0.000875493	2610	0.002285038	0.107986997	1.330099222
19	Kogel Bay	0.09625	0.0639	0.0639	0.000393009	2610	0.001025753	0.091419835	0.833097222
20	Kogel Bay	0.17729	0.08203	0.08203	0.00119297	2610	0.003113653	0.117357888	1.534543444
21	Kogel Bay	0.25906	0.14394	0.14394	0.005367393	2610	0.014008895	0.205930689	2.242308222
22	Kogel Bay	0.11338	0.06268	0.06268	0.000445445	2610	0.001162612	0.089674417	0.981366889
23	Kogel Bay	0.17788	0.05859	0.05859	0.000610624	2610	0.00159373	0.083822975	1.539650222
24	Kogel Bay	0.2411	0.11621	0.11621	0.003255999	2610	0.008498156	0.1662582	2.086854444
25	Kogel Bay	0.17998	0.05907	0.05907	0.000627998	2610	0.001639075	0.084509697	1.557826889
26	Kogel Bay	0.0568	0.04546	0.04546	0.000117384	2610	0.000306371	0.065038274	0.491635556
27	Kogel Bay	0.09606	0.07053	0.07053	0.000477849	2610	0.001247185	0.100905179	0.831452667
28	Kogel Bay	0.09341	0.06573	0.06573	0.000403572	2610	0.001053322	0.094037961	0.808515444
29	Kogel Bay	0.17806	0.0922	0.0922	0.00151366	2610	0.003950651	0.131907805	1.541208222
30	Kogel Bay	0.08033	0.07153	0.07153	0.000411012	2610	0.001072741	0.102335849	0.695300778
31	Kogel Bay	1.06885	0.41818	0.41818	0.186914623	2610	0.487847165	0.598277723	9.251490556
32	Kogel Bay	0.27872	0.13258	0.13258	0.004899189	2610	0.012786882	0.189678274	2.412476444
33	Kogel Bay	0.48899	0.34628	0.34628	0.058634712	2610	0.153036598	0.495412525	4.232480111
34	Kogel Bay	0.50822	0.32002	0.32002	0.052048233	2610	0.135845889	0.457843122	4.398926444
35	Kogel Bay	0.56433	0.11631	0.11631	0.007634265	2610	0.019925433	0.166401267	4.884589667
36	Kogel Bay	0.18616	0.1261	0.1261	0.002960169	2610	0.007726042	0.18040753	1.611318222
37	Kogel Bay	0.23028	0.12576	0.12576	0.003642011	2610	0.009505649	0.179921102	1.993201333
38	Kogel Bay	0.29231	0.25633	0.25633	0.019206249	2610	0.050128309	0.366723728	2.530105444
39	Kogel Bay	0.37932	0.24141	0.24141	0.02210631	2610	0.057697469	0.345378127	3.283225333
40	Kogel Bay	0.07787	0.05916	0.05916	0.000272538	2610	0.000711323	0.084638457	0.674008111
41	Kogel Bay	0.17346	0.12475	0.12475	0.002699482	2610	0.007045648	0.178476125	1.501392667
42	Kogel Bay	0.19076	0.093	0.093	0.001649883	2610	0.004306195	0.133052342	1.651133778
43	Kogel Bay	0.22253	0.09747	0.09747	0.002114124	2610	0.005517864	0.139447438	1.926120778
44	Kogel Bay	0.09193	0.04986	0.04986	0.00022854	2610	0.000596489	0.071333223	0.795705222
45	Kogel Bay	0.11256	0.07382	0.07382	0.000613384	2610	0.001600931	0.105612084	0.974269333
46	Kogel Bay	0.09193	0.08214	0.08214	0.00062025	2610	0.001618852	0.117515262	0.795705222
47	Kogel Bay	0.10362	0.06782	0.06782	0.000476606	2610	0.001243941	0.097028062	0.896888667
48	Kogel Bay	0.09037	0.07915	0.07915	0.000566143	2610	0.001477633	0.113237557	0.782202556
49	Kogel Bay	0.30051	0.09972	0.09972	0.002988295	2610	0.00779945	0.142666446	2.601081
50	Kogel Bay	0.11627	0.07882	0.07882	0.000722338	2610	0.001885302	0.112765436	1.006381444
51	Kogel Bay	0.09382	0.07726	0.07726	0.000560022	2610	0.001461657	0.11053359	0.812064222
52	Kogel Bay	0.13461	0.03879	0.03879	0.000202543	2610	0.000528637	0.055495702	1.165124333
53	Kogel Bay	0.13413	0.06288	0.06288	0.000530336	2610	0.001384177	0.089960551	1.160969667
54	Kogel Bay	1.78089	1.50427	1.50427	4.029848172	2610	10.51790373	2.152114472	15.41459233
55	Kogel Bay	0.9749	0.49425	0.49425	0.238151558	2610	0.621575565	0.707108815	8.438301111
56	Kogel Bay	0.2491	0.1596	0.1596	0.006345115	2610	0.01656075	0.228334986	2.156098889
57	Kogel Bay	0.16826	0.06905	0.06905	0.000802247	2610	0.002093865	0.098787787	1.456383778
58	Kogel Bay	0.1935	0.13397	0.13397	0.00347293	2610	0.009064348	0.191666905	1.67485
59	Kogel Bay	0.32868	0.28816	0.28816	0.027292333	2610	0.07123299	0.412261965	2.844908
60	Kogel Bay	0.60293	0.26723	0.26723	0.043056361	2610	0.112377101	0.382318035	5.218694111
61	Kogel Bay	0.20672	0.06859	0.06859	0.000972532	2610	0.00253831	0.098129679	1.789276444
62	Kogel Bay	0.08899	0.05901	0.05901	0.000309879	2610	0.000808785	0.084423857	0.770257889
63	Kogel Bay	0.07926	0.05109	0.05109	0.000206884	2610	0.000539966	0.073092948	0.686039333
64	Kogel Bay	0.14001	0.12734	0.12734	0.002270329	2610	0.005925558	0.182181561	1.211864333

65	Kogel Bay	0.09567	0.06909	0.06909	0.000456674	2610	0.001191919	0.098845014	0.828077
66	Kogel Bay	0.11627	0.06791	0.06791	0.00053621	2610	0.001399509	0.097156823	1.006381444
67	Kogel Bay	0.12691	0.0663	0.0663	0.000557857	2610	0.001456007	0.094853444	1.098476556
68	Kogel Bay	0.17441	0.07051	0.07051	0.000867107	2610	0.00226315	0.100876566	1.509615444
69	Kogel Bay	0.11239	0.05321	0.05321	0.00031821	2610	0.000830529	0.076125969	0.972797889
70	Kogel Bay	0.08906	0.05372	0.05372	0.000257013	2610	0.000670803	0.076855611	0.770863778
71	Kogel Bay	0.07199	0.05097	0.05097	0.000187026	2610	0.000488137	0.072921267	0.623113444
72	Kogel Bay	0.15045	0.03525	0.03525	0.000186944	2610	0.000487923	0.050431129	1.302228333
73	Kogel Bay	0.15328	0.03631	0.03631	0.000202087	2610	0.000527447	0.05194764	1.326723556
74	Kogel Bay	0.08371	0.05901	0.05901	0.000291493	2610	0.000760798	0.084423857	0.724556556
75	Kogel Bay	0.13861	0.08457	0.08457	0.00099135	2610	0.002587425	0.120991791	1.199746556
76	Kogel Bay	0.07247	0.05908	0.05908	0.000252953	2610	0.000660206	0.084524004	0.627268111
77	Kogel Bay	0.07399	0.06787	0.06787	0.000340823	2610	0.000889548	0.097099596	0.640424556
78	Kogel Bay	0.08478	0.07003	0.07003	0.000415778	2610	0.001085181	0.100189844	0.733818
79	Kogel Bay	0.12582	0.10428	0.10428	0.001368207	2610	0.00357102	0.149190303	1.089042
80	Kogel Bay	0.13268	0.10335	0.10335	0.001417185	2610	0.003698852	0.14785978	1.148419111
81	Kogel Bay	0.16785	0.0784	0.0784	0.0010317	2610	0.002692737	0.112164555	1.452835
82	Kogel Bay	0.15486	0.10111	0.10111	0.00158317	2610	0.004132073	0.144655078	1.340399333
83	Kogel Bay	0.16755	0.10845	0.10845	0.001970623	2610	0.005143326	0.155156198	1.450238333
84	Kogel Bay	0.31613	0.2429	0.2429	0.0186518	2610	0.048681197	0.347509826	2.736280778
85	Kogel Bay	0.27407	0.11866	0.11866	0.003858959	2610	0.010071884	0.169763343	2.372228111
86	Kogel Bay	0.11464	0.07843	0.07843	0.000705181	2610	0.001840522	0.112207475	0.992272889
87	Kogel Bay	0.09795	0.07802	0.07802	0.000596233	2610	0.001556169	0.1116209	0.847811667
88	Kogel Bay	0.13335	0.08579	0.08579	0.000981446	2610	0.002561574	0.122737208	1.154218333
89	Kogel Bay	0.09382	0.06227	0.06227	0.000363792	2610	0.000949497	0.089087842	0.812064222
90	Kogel Bay	0.44306	0.24323	0.24323	0.026211799	2610	0.068412794	0.347981947	3.834930444
91	Kogel Bay	0.07707	0.08096	0.08096	0.000505157	2610	0.00131846	0.115827071	0.667083667
92	Kogel Bay	0.11456	0.07662	0.07662	0.000672539	2610	0.001755326	0.109617961	0.991580444
93	Kogel Bay	0.18795	0.1369	0.1369	0.003522486	2610	0.009193687	0.19585877	1.626811667
94	Kogel Bay	0.24443	0.1798	0.1798	0.007901943	2610	0.020624071	0.257234527	2.115677444
95	Kogel Bay	0.07859	0.06057	0.06057	0.000288325	2610	0.000752528	0.086655702	0.680240111
96	Kogel Bay	0.05143	0.03462	0.03462	6.16411E-05	2610	0.000160883	0.049529807	0.445155222
97	Kogel Bay	0.13371	0.0437	0.0437	0.000255345	2610	0.00066645	0.062520294	1.157334333
98	Kogel Bay	0.05931	0.04572	0.04572	0.000123977	2610	0.000323579	0.065410248	0.513361
99	Kogel Bay	0.08714	0.08665	0.08665	0.000654267	2610	0.001707636	0.123967585	0.754245111
100	Kogel Bay	0.57103	0.32858	0.32858	0.061651149	2610	0.160909499	0.47008966	4.942581889
101	Kogel Bay	0.13517	0.08302	0.08302	0.000931635	2610	0.002431567	0.118774252	1.169971444
102	Kogel Bay	0.14311	0.09182	0.09182	0.001206548	2610	0.00314909	0.131364151	1.238696556
103	Kogel Bay	0.43684	0.26747	0.26747	0.031251621	2610	0.081566732	0.382661396	3.781092889
104	Kogel Bay	0.5601	0.38556	0.38556	0.083262513	2610	0.21731516	0.551609256	4.847976667
105	Kogel Bay	0.25686	0.21764	0.21764	0.012166731	2610	0.031755168	0.311371093	2.223266
106	Kogel Bay	0.23188	0.12171	0.12171	0.003434914	2610	0.008965124	0.174126887	2.007050222
107	Kogel Bay	0.34811	0.1724	0.1724	0.010346442	2610	0.027004213	0.246647567	3.013085444
108	Kogel Bay	0.5584	0.37514	0.37514	0.078583643	2610	0.205103308	0.536701671	4.833262222
109	Kogel Bay	0.36342	0.24907	0.24907	0.022545074	2610	0.058842643	0.356337062	3.145602
110	Kogel Bay	0.06245	0.04069	0.04069	0.000103397	2610	0.000269866	0.058213976	0.540539444
111	Kogel Bay	0.08964	0.05401	0.05401	0.000261487	2610	0.000682481	0.077270505	0.775884
112	Kogel Bay	0.1431	0.12129	0.12129	0.002105182	2610	0.005494525	0.173526006	1.23861
113	Kogel Bay	0.1279	0.04876	0.04876	0.000304087	2610	0.000793667	0.069759486	1.107045556
114	Kogel Bay	0.07214	0.04108	0.04108	0.000121741	2610	0.000317744	0.058771938	0.624411778
115	Kogel Bay	0.32203	0.12468	0.12468	0.005005989	2610	0.013065632	0.178375978	2.787348556
116	Kogel Bay	0.10984	0.03618	0.03618	0.00014378	2610	0.000375265	0.051761653	0.950726222

117	Kogel Bay	0.42719	0.21497	0.21497	0.019741347	2610	0.051524917	0.307551203	3.697566778
118	Kogel Bay	0.15514	0.09453	0.09453	0.001386319	2610	0.003618292	0.135241267	1.342822889
119	Kogel Bay	0.11688	0.09664	0.09664	0.001091576	2610	0.002849014	0.138259982	1.011661333
120	Kogel Bay	0.06841	0.05158	0.05158	0.000182005	2610	0.000475032	0.073793976	0.592126556
121	Kogel Bay	0.93522	0.62858	0.62858	0.369517408	2610	0.964440435	0.899290762	8.094848667
122	Kogel Bay	0.32323	0.1389	0.1389	0.006236144	2610	0.016276337	0.19872011	2.797735222
123	Kogel Bay	0.18858	0.11804	0.11804	0.002627568	2610	0.006857954	0.168876327	1.632264667
124	Kogel Bay	0.07497	0.06511	0.06511	0.000317821	2610	0.000829513	0.093150946	0.648907
125	Kogel Bay	0.11233	0.04597	0.04597	0.00023738	2610	0.000619563	0.065767916	0.972278556
126	Kogel Bay	0.0954	0.05443	0.05443	0.000282634	2610	0.000737676	0.077871387	0.82574
127	Kogel Bay	0.10341	0.07973	0.07973	0.000657364	2610	0.001715721	0.114067346	0.895071
128	Kogel Bay	0.27211	0.17894	0.17894	0.008712833	2610	0.022740493	0.256004151	2.355263222
129	Kogel Bay	0.15221	0.10026	0.10026	0.001530025	2610	0.003993366	0.143439008	1.317462111
130	Kogel Bay	0.2631	0.16951	0.16951	0.007559821	2610	0.019731132	0.242512929	2.277276667
131	Kogel Bay	0.32507	0.31515	0.31515	0.032285797	2610	0.084265931	0.450875758	2.813661444
132	Kogel Bay	0.40266	0.18497	0.18497	0.013776569	2610	0.035956846	0.264631093	3.485246
133	Kogel Bay	0.81805	0.36688	0.36688	0.110110294	2610	0.287387868	0.524884334	7.080677222
134	Kogel Bay	0.3052	0.25396	0.25396	0.019684082	2610	0.051375454	0.363333039	2.641675556
135	Kogel Bay	0.59542	0.27928	0.27928	0.046441163	2610	0.121211436	0.399557612	5.153690889
136	Kogel Bay	0.39723	0.16436	0.16436	0.010730854	2610	0.02800753	0.235144977	3.438246333
137	Kogel Bay	0.48036	0.21514	0.21514	0.022233568	2610	0.058029613	0.307794417	4.157782667
138	Kogel Bay	0.90348	0.21496	0.21496	0.041747825	2610	0.108961822	0.307536896	7.820121333
139	Kogel Bay	0.35156	0.19465	0.19465	0.013320124	2610	0.034765524	0.278479982	3.042947111
140	Kogel Bay	0.82924	0.67167	0.67167	0.374103822	2610	0.976410975	0.960938347	7.177532889
141	Kogel Bay	0.77178	0.26249	0.26249	0.053176414	2610	0.13879044	0.375536657	6.680184667
142	Kogel Bay	0.30885	0.14858	0.14858	0.006818178	2610	0.017795444	0.212568999	2.673268333
143	Kogel Bay	0.34957	0.28051	0.28051	0.027506216	2610	0.071791224	0.401317337	3.025722556
144	Kogel Bay	0.18081	0.14085	0.14085	0.003587039	2610	0.009362173	0.201509917	1.565011
145	Kogel Bay	0.44941	0.39115	0.39115	0.068758976	2610	0.179460928	0.559606703	3.889893222
146	Kogel Bay	0.17842	0.09135	0.09135	0.001488883	2610	0.003885985	0.130691736	1.544324222
147	Kogel Bay	0.1286	0.09956	0.09956	0.001274708	2610	0.003326988	0.142437539	1.113104444
148	Kogel Bay	0.09278	0.08213	0.08213	0.000625832	2610	0.001633422	0.117500955	0.803062444
149	Kogel Bay	0.18818	0.09034	0.09034	0.001535796	2610	0.004008429	0.129246758	1.628802444
150	Kogel Bay	0.15314	0.1007	0.1007	0.001552915	2610	0.004053107	0.144068503	1.325511778
151	Kogel Bay	0.42602	0.22558	0.22558	0.021678597	2610	0.056581138	0.322730615	3.687439778
152	Kogel Bay	0.20894	0.18895	0.18895	0.007459597	2610	0.019469549	0.270325161	1.808491778
153	Kogel Bay	0.19845	0.08196	0.08196	0.001333076	2610	0.003479329	0.117257741	1.717695
154	Kogel Bay	0.10591	0.06189	0.06189	0.000405675	2610	0.001058811	0.088544187	0.916709889
155	Kogel Bay	0.11818	0.09533	0.09533	0.001073997	2610	0.002803133	0.136385803	1.022913556
156	Kogel Bay	0.3201	0.15042	0.15042	0.007242639	2610	0.018903288	0.215201433	2.770643333
157	Kogel Bay	0.14086	0.07953	0.07953	0.000890942	2610	0.00232536	0.113781212	1.219221556
158	Kogel Bay	0.1766	0.06725	0.06725	0.000798685	2610	0.002084567	0.09621258	1.528571111
159	Kogel Bay	0.18185	0.1456	0.1456	0.003855104	2610	0.01006182	0.208305601	1.574012778
160	Kogel Bay	0.37114	0.20073	0.20073	0.014954171	2610	0.039030385	0.287178457	3.212422889
161	Kogel Bay	0.28998	0.15988	0.15988	0.007412357	2610	0.019346252	0.228735574	2.509938
162	Kogel Bay	0.08905	0.04333	0.04333	0.00016719	2610	0.000436367	0.061990946	0.770777222
163	Kogel Bay	1.08587	0.3083	0.3083	0.103210738	2610	0.269380027	0.441075666	9.398808111
164	Kogel Bay	0.35417	0.11443	0.11443	0.004637582	2610	0.012104088	0.163711607	3.065538111
165	Kogel Bay	0.18752	0.15786	0.15786	0.004672957	2610	0.012196418	0.22584562	1.623089778
166	Kogel Bay	0.17178	0.14849	0.14849	0.003787625	2610	0.009885702	0.212440239	1.486851333
167	Kogel Bay	0.90143	0.47474	0.47474	0.203162551	2610	0.530254259	0.679196437	7.802377444
168	Kogel Bay	0.24611	0.09129	0.09129	0.002051047	2610	0.005353233	0.130605895	2.130218778

169	Kogel Bay	0.18171	0.1288	0.1288	0.003014467	2610	0.007867759	0.18427034	1.572801
170	Kogel Bay	0.10912	0.05272	0.05272	0.000303288	2610	0.000791582	0.07542494	0.944494222
171	Kogel Bay	0.07194	0.05208	0.05208	0.000195125	2610	0.000509276	0.074509311	0.622680667
172	Kogel Bay	0.08046	0.04289	0.04289	0.00014801	2610	0.000386307	0.061361451	0.696426
173	Kogel Bay	0.05917	0.05258	0.05258	0.000163585	2610	0.000426956	0.075224646	0.512149222
174	Kogel Bay	0.17446	0.05653	0.05653	0.000557512	2610	0.001455105	0.080875794	1.510048222
175	Kogel Bay	0.10956	0.09445	0.09445	0.000977363	2610	0.002550918	0.135126814	0.948302667
176	Kogel Bay	0.04649	0.04642	0.04642	0.000100177	2610	0.000261463	0.066411717	0.402396778
177	Kogel Bay	0.19654	0.10143	0.10143	0.002022012	2610	0.005277452	0.145112893	1.701162889
178	Kogel Bay	0.33939	0.13784	0.13784	0.006448364	2610	0.016830231	0.1972036	2.937609
179	Kogel Bay	0.29524	0.1553	0.1553	0.007120625	2610	0.018584831	0.222183104	2.555466222
180	Kogel Bay	0.17727	0.10346	0.10346	0.001897493	2610	0.004952457	0.148017153	1.534370333
181	Kogel Bay	0.15028	0.11374	0.11374	0.00194414	2610	0.005074207	0.162724444	1.300756889
182	Kogel Bay	0.15604	0.11644	0.11644	0.002115633	2610	0.005521802	0.166587254	1.350612889
183	Kogel Bay	0.27599	0.13563	0.13563	0.005076973	2610	0.0132509	0.194041818	2.388846778
184	Kogel Bay	0.13968	0.12929	0.12929	0.002334877	2610	0.00609403	0.184971368	1.209008
185	Kogel Bay	0.8785	0.84964	0.84964	0.634178722	2610	1.655206464	1.215554747	7.603905556
186	Kogel Bay	0.66055	0.16398	0.16398	0.01776182	2610	0.04635835	0.234601322	5.717427222
187	Kogel Bay	0.15283	0.11047	0.11047	0.001865079	2610	0.004867857	0.158046152	1.322828556
188	Kogel Bay	0.25001	0.18387	0.18387	0.008452382	2610	0.022060718	0.263057355	2.163975444
189	Kogel Bay	0.11667	0.0637	0.0637	0.000473411	2610	0.001235602	0.091133701	1.009843667
190	Kogel Bay	0.12035	0.06757	0.06757	0.000549483	2610	0.00143415	0.096670395	1.041696111
191	Kogel Bay	0.15101	0.12228	0.12228	0.002257962	2610	0.00589328	0.174942369	1.307075444
192	Kogel Bay	0.2705	0.15451	0.15451	0.006457738	2610	0.016854697	0.221052874	2.341327778
193	Kogel Bay	0.21226	0.12904	0.12904	0.00353441	2610	0.009224809	0.184613701	1.837228222
194	Kogel Bay	0.12088	0.07448	0.07448	0.000670554	2610	0.001750146	0.106556327	1.046283556
195	Kogel Bay	0.21678	0.10413	0.10413	0.002350558	2610	0.006134956	0.148975702	1.876351333
196	Kogel Bay	0.36343	0.33936	0.33936	0.041854492	2610	0.109240224	0.485512287	3.145688556
197	Kogel Bay	0.3213	0.2744	0.2744	0.024192399	2610	0.063142162	0.392575941	2.78103
198	Kogel Bay	0.31969	0.21458	0.21458	0.014719991	2610	0.038419176	0.306993242	2.767094556
199	Kogel Bay	0.22252	0.20755	0.20755	0.009585495	2610	0.025018141	0.296935629	1.926034222
200	Kogel Bay	0.11074	0.08009	0.08009	0.000710332	2610	0.001853965	0.114582388	0.958516222
201	Kogel Bay	0.5933	0.4903	0.4903	0.142625814	2610	0.372253373	0.701457668	5.135341111
202	Kogel Bay	0.09576	0.09494	0.09494	0.000863143	2610	0.002252802	0.135827842	0.828856
203	Kogel Bay	0.13199	0.12596	0.12596	0.002094143	2610	0.005465713	0.180207236	1.142446778
204	Kogel Bay	0.22	0.20604	0.20604	0.009339546	2610	0.024376215	0.294775317	1.904222222
205	Kogel Bay	2.09	1.40703	1.40703	4.13764285	2610	10.79924784	2.012996088	18.09011111
206	Kogel Bay	0.13	0.08655	0.08655	0.000973817	2610	0.002541663	0.123824518	1.125222222
207	Kogel Bay	0.07	0.03235	0.03235	7.32566E-05	2610	0.0001912	0.046282185	0.605888889
208	Kogel Bay	0.09	0.07539	0.07539	0.000511529	2610	0.00133509	0.107858237	0.779
209	Kogel Bay	0.09	0.06123	0.06123	0.00033742	2610	0.000880667	0.087599945	0.779
210	Kogel Bay	0.08	0.03556	0.03556	0.000101161	2610	0.00026403	0.050874637	0.692444444
211	Kogel Bay	0.08	0.04782	0.04782	0.00018294	2610	0.000477474	0.068414656	0.692444444
212	Kogel Bay	0.1	0.07329	0.07329	0.000537142	2610	0.001401942	0.104853829	0.865555556
213	Kogel Bay	0.07	0.04162	0.04162	0.000121256	2610	0.000316477	0.0595445	0.605888889
214	Kogel Bay	0.05	0.02405	0.02405	2.89201E-05	2610	7.54815E-05	0.034407622	0.432777778
215	Kogel Bay	0.18	0.12286	0.12286	0.002717024	2610	0.007091433	0.175772158	1.558
216	Kogel Bay	0.23	0.13234	0.13234	0.004028191	2610	0.01051358	0.189334913	1.990777778
217	Kogel Bay	0.22	0.14925	0.14925	0.004900624	2610	0.012790628	0.213527548	1.904222222
218	Kogel Bay	0.11	0.06063	0.06063	0.00040436	2610	0.001055379	0.086741543	0.952111111
219	Kogel Bay	0.27	0.10007	0.10007	0.002703781	2610	0.007056869	0.143167181	2.337
220	Kogel Bay	0.11	0.0532	0.0532	0.000311326	2610	0.000812562	0.076111662	0.952111111

221	Kogel Bay	0.82	0.53254	0.53254	0.232551058	2610	0.606958262	0.761889183	7.097555556
222	Kogel Bay	0.76	0.68821	0.68821	0.359961083	2610	0.939498427	0.984601635	6.578222222
223	Kogel Bay	0.15	0.10286	0.10286	0.001587027	2610	0.00414214	0.147158751	1.298333333
224	Kogel Bay	0.1	0.056	0.056	0.0003136	2610	0.000818496	0.080117539	0.865555556
225	Kogel Bay	0.12	0.0968	0.0968	0.001124429	2610	0.002934759	0.138488889	1.038666667
226	Kogel Bay	0.07	0.03119	0.03119	6.80971E-05	2610	0.000177734	0.044622608	0.605888889
227	Kogel Bay	0.15	0.07607	0.07607	0.000867997	2610	0.002265471	0.108831093	1.298333333
228	Kogel Bay	0.16	0.06409	0.06409	0.000657204	2610	0.001715304	0.091691662	1.384888889
229	Kogel Bay	0.39	0.23642	0.23642	0.021798822	2610	0.056894926	0.338239082	3.375666667
230	Kogel Bay	0.06	0.04258	0.04258	0.000108783	2610	0.000283925	0.060917943	0.519333333
231	Kogel Bay	0.21	0.06684	0.06684	0.000938193	2610	0.002448684	0.095626006	1.817666667
232	Kogel Bay	0.6	0.33183	0.33183	0.066066689	2610	0.172434059	0.474739339	5.193333333
233	Kogel Bay	0.22	0.09503	0.09503	0.001986754	2610	0.005185428	0.135956602	1.904222222
234	Kogel Bay	0.23	0.11814	0.11814	0.003210124	2610	0.008378423	0.169019394	1.990777778
235	Kogel Bay	0.23	0.15561	0.15561	0.005569329	2610	0.014535948	0.222626612	1.990777778
236	Kogel Bay	0.33	0.22725	0.22725	0.017042046	2610	0.044479739	0.325119835	2.856333333
237	Kogel Bay	0.26	0.19496	0.19496	0.009882444	2610	0.02579318	0.278923489	2.250444444
238	Kogel Bay	0.15	0.14917	0.14917	0.003337753	2610	0.008711536	0.213413095	1.298333333
239	Kogel Bay	0.21	0.12864	0.12864	0.003475132	2610	0.009070096	0.184041433	1.817666667
240	Kogel Bay	0.12	0.09287	0.09287	0.00103498	2610	0.002701299	0.132866354	1.038666667
241	Kogel Bay	0.17	0.12039	0.12039	0.002463938	2610	0.006430878	0.172238402	1.471444444
242	Kogel Bay	0.29	0.24848	0.24848	0.01790527	2610	0.046732755	0.355492966	2.510111111
243	Kogel Bay	0.16	0.15167	0.15167	0.003680606	2610	0.009606382	0.21698977	1.384888889
244	Kogel Bay	0.14	0.09749	0.09749	0.001330602	2610	0.003472871	0.139476051	1.211777778
245	Kogel Bay	0.38	0.18014	0.18014	0.012331159	2610	0.032184326	0.257720955	3.289111111
246	Kogel Bay	0.09	0.05891	0.05891	0.000312335	2610	0.000815194	0.08428079	0.779
247	Kogel Bay	0.18	0.1095	0.1095	0.002158245	2610	0.005633019	0.156658402	1.558
248	Kogel Bay	0.17	0.08312	0.08312	0.001174519	2610	0.003065494	0.118917319	1.471444444
249	Kogel Bay	0.2	0.10615	0.10615	0.002253565	2610	0.005881803	0.151865657	1.731111111
250	Kogel Bay	0.09	0.06884	0.06884	0.000426505	2610	0.001113178	0.098487346	0.779
251	Kogel Bay	0.19	0.09408	0.09408	0.001681699	2610	0.004389234	0.134597466	1.644555556
252	Kogel Bay	0.09	0.07604	0.07604	0.000520387	2610	0.001358211	0.108788173	0.779
253	Kogel Bay	0.12	0.07885	0.07885	0.000746079	2610	0.001947265	0.112808356	1.038666667
254	Kogel Bay	0.1	0.05495	0.05495	0.00030195	2610	0.00078809	0.078615335	0.865555556
255	Kogel Bay	0.1	0.07718	0.07718	0.000595675	2610	0.001554712	0.110419137	0.865555556
256	Kogel Bay	0.11	0.04938	0.04938	0.000268222	2610	0.00070006	0.070646501	0.952111111
257	Kogel Bay	0.11	0.07065	0.07065	0.000549056	2610	0.001433037	0.10107686	0.952111111
258	Kogel Bay	0.09	0.04736	0.04736	0.000201867	2610	0.000526874	0.067756547	0.779
259	Kogel Bay	0.19	0.14728	0.14728	0.004121366	2610	0.010756764	0.210709128	1.644555556
260	Kogel Bay	0.14	0.06886	0.06886	0.000663838	2610	0.001732617	0.09851596	1.211777778
261	Kogel Bay	0.37	0.36723	0.36723	0.049897413	2610	0.130232248	0.525385069	3.202555556
262	Kogel Bay	0.19	0.08484	0.08484	0.001367587	2610	0.003569402	0.121378072	1.644555556
263	Kogel Bay	0.15	0.0534	0.0534	0.000427734	2610	0.001116386	0.076397796	1.298333333
264	Kogel Bay	0.13	0.12347	0.12347	0.001981829	2610	0.005172575	0.176644867	1.125222222
265	Kogel Bay	0.9	0.80541	0.80541	0.583816741	2610	1.523761695	1.152276198	7.79
266	Kogel Bay	0.09	0.03617	0.03617	0.000117744	2610	0.000307312	0.051747346	0.779
267	Kogel Bay	0.09	0.06356	0.06356	0.000363589	2610	0.000948966	0.090933407	0.779
268	Kogel Bay	0.12	0.05253	0.05253	0.000331128	2610	0.000864244	0.075153113	1.038666667
269	Kogel Bay	0.53	0.39594	0.39594	0.083087296	2610	0.216857843	0.566459614	4.587444444
270	Kogel Bay	0.32	0.19679	0.19679	0.012392417	2610	0.032344209	0.281541616	2.769777778
271	Kogel Bay	0.12	0.09085	0.09085	0.000990447	2610	0.002585066	0.1299764	1.038666667
272	Kogel Bay	0.17	0.13039	0.13039	0.002890264	2610	0.007543589	0.186545106	1.471444444

273	Kogel Bay	0.14	0.04989	0.04989	0.000348462	2610	0.000909485	0.071376143	1.211777778
274	Kogel Bay	0.2	0.08679	0.08679	0.001506501	2610	0.003931967	0.124167879	1.731111111
275	Kogel Bay	0.1	0.09303	0.09303	0.000865458	2610	0.002258846	0.133095262	0.865555556
276	Kogel Bay	0.43	0.15278	0.15278	0.010036943	2610	0.026196422	0.218577815	3.721888889
277	Kogel Bay	0.39	0.15432	0.15432	0.009287718	2610	0.024240945	0.220781047	3.375666667
278	Kogel Bay	0.19	0.17758	0.17758	0.005991585	2610	0.015638036	0.254058439	1.644555556
279	Kogel Bay	0.35	0.33922	0.33922	0.040274573	2610	0.105116635	0.485311993	3.029444444
280	Kogel Bay	0.15	0.14612	0.14612	0.003202658	2610	0.008358938	0.20904955	1.298333333
281	Kogel Bay	0.15	0.14862	0.14862	0.003313186	2610	0.008647415	0.212626226	1.298333333
3)1	Kogel Bay	0.1887	0.1247	0.1247	0.002934302	2610	0.007658528	0.178404591	1.633303333
2	Kogel Bay	0.2866	0.1751	0.1751	0.008787159	2610	0.022934485	0.250510376	2.480682222
3	Kogel Bay	0.8337	0.5326	0.5326	0.236489643	2610	0.617237968	0.761975023	7.216136667
4	Kogel Bay	0.2305	0.1697	0.1697	0.00663796	2610	0.017325075	0.242784757	1.995105556
5	Kogel Bay	0.1033	0.052	0.052	0.000279323	2610	0.000729034	0.074394858	0.894118889
6	Kogel Bay	0.1115	0.0987	0.0987	0.001086198	2610	0.002834978	0.141207163	0.965094444
7	Kogel Bay	0.1023	0.0596	0.0596	0.000363386	2610	0.000948437	0.085267952	0.885463333
8	Kogel Bay	0.111	0.0424	0.0424	0.000199551	2610	0.000520829	0.060660422	0.960766667
9	Kogel Bay	0.2235	0.1898	0.1898	0.008051373	2610	0.021014083	0.27154123	1.934516667
10	Kogel Bay	1.115	1.0316	1.0316	1.186581394	2610	3.096977439	1.475879522	9.650944444
11	Kogel Bay	0.3626	0.2454	0.2454	0.021836193	2610	0.056992463	0.351086501	3.138504444
12	Kogel Bay	0.3467	0.1957	0.1957	0.013278086	2610	0.034655806	0.279982185	3.000881111
13	Kogel Bay	0.2156	0.1012	0.1012	0.002208054	2610	0.005763022	0.144783838	1.866137778
14	Kogel Bay	0.1537	0.1109	0.1109	0.001890327	2610	0.004933754	0.158661341	1.330358889
15	Kogel Bay	0.1161	0.0882	0.0882	0.00090317	2610	0.002357273	0.126185124	1.00491
16	Kogel Bay	0.2072	0.0889	0.0889	0.001637545	2610	0.004273993	0.127186593	1.793431111
17	Kogel Bay	0.1347	0.0662	0.0662	0.000590315	2610	0.001540721	0.094710376	1.165903333
18	Kogel Bay	0.3284	0.1818	0.1818	0.010854027	2610	0.028329011	0.260095868	2.842484444
19	Kogel Bay	0.1221	0.1164	0.1164	0.001654328	2610	0.004317796	0.166530028	1.056843333
20	Kogel Bay	0.3459	0.2462	0.2462	0.020966535	2610	0.054722656	0.352231038	2.993956667
21	Kogel Bay	0.2965	0.2242	0.2242	0.014903762	2610	0.038898819	0.32075629	2.566372222
22	Kogel Bay	0.3943	0.2984	0.2984	0.035109481	2610	0.091635746	0.426912029	3.412885556
23	Kogel Bay	0.2566	0.2003	0.2003	0.010294815	2610	0.026869467	0.286563269	2.221015556
24	Kogel Bay	0.2115	0.21	0.21	0.00932715	2610	0.024343862	0.300440771	1.83065
25	Kogel Bay	0.1284	0.1051	0.1051	0.001418308	2610	0.003701783	0.150363453	1.111373333
26	Kogel Bay	0.1279	0.1002	0.1002	0.001284121	2610	0.003351556	0.143353168	1.107045556
27	Kogel Bay	0.2778	0.1384	0.1384	0.005321137	2610	0.013888167	0.198004775	2.404513333
28	Kogel Bay	0.1502	0.0613	0.0613	0.000564405	2610	0.001473097	0.087700092	1.300064444
29	Kogel Bay	0.1483	0.0574	0.0574	0.000488613	2610	0.00127528	0.082120478	1.283618889
30	Kogel Bay	0.1659	0.0909	0.0909	0.0013708	2610	0.003577788	0.130047934	1.435956667
31	Kogel Bay	0.1458	0.1141	0.1141	0.001898142	2610	0.004954152	0.163239486	1.26198
32	Kogel Bay	0.2245	0.1908	0.1908	0.008172842	2610	0.021331117	0.272971901	1.943172222
33	Kogel Bay	0.235	0.2073	0.2073	0.010098723	2610	0.026357667	0.296577961	2.034055556
34	Kogel Bay	0.581	0.2025	0.2025	0.023824631	2610	0.062182288	0.289710744	5.028877778
35	Kogel Bay	1.2206	0.7571	0.7571	0.69964842	2610	1.826082377	1.083160514	10.56497111
36	Kogel Bay	0.1498	0.1467	0.1467	0.003223829	2610	0.008414195	0.209879339	1.296602222
37	Kogel Bay	0.1223	0.1223	0.1223	0.001829277	2610	0.004774412	0.174970983	1.058574444
38	Kogel Bay	0.1926	0.1244	0.1244	0.002980554	2610	0.007779247	0.17797539	1.66706
39	Kogel Bay	0.5004	0.2751	0.2751	0.037870277	2610	0.098841423	0.39357741	4.33124
40	Kogel Bay	0.3162	0.1887	0.1887	0.011259152	2610	0.029386386	0.269967493	2.736886667
41	Kogel Bay	0.5593	0.3292	0.3292	0.060612818	2610	0.158199454	0.470976676	4.841052222
42	Kogel Bay	0.2688	0.1497	0.1497	0.006023832	2610	0.015722202	0.21417135	2.326613333
43	Kogel Bay	2.7984	1.9713	1.9713	10.87464869	2610	28.38283309	2.820280441	24.22170667

44	Kogel Bay	0.4322	0.1602	0.1602	0.011091998	2610	0.028950115	0.229193388	3.740931111
45	Kogel Bay	0.44	0.242	0.242	0.02576816	2610	0.067254898	0.346222222	3.808444444
46	Kogel Bay	0.2538	0.1755	0.1755	0.007817103	2610	0.02040264	0.251082645	2.19678
47	Kogel Bay	0.2863	0.1469	0.1469	0.006178242	2610	0.016125213	0.210165473	2.478085556
48	Kogel Bay	0.3103	0.176	0.176	0.009611853	2610	0.025086936	0.25179798	2.685818889
49	Kogel Bay	0.1918	0.1709	0.1709	0.005601866	2610	0.014620871	0.244501561	1.660135556
50	Kogel Bay	0.4862	0.3836	0.3836	0.071543824	2610	0.186729382	0.548805142	4.208331111
51	Kogel Bay	0.4163	0.4149	0.4149	0.071662719	2610	0.187039696	0.593585124	3.603307778
52	Kogel Bay	0.7611	0.6532	0.6532	0.32473872	2610	0.847568058	0.934513866	6.587743333
53	Kogel Bay	0.5446	0.5404	0.5404	0.159040714	2610	0.415096264	0.773134252	4.713815556
54	Kogel Bay	0.0755	0.0659	0.0659	0.000327882	2610	0.000855772	0.094281175	0.653494444
55	Kogel Bay	0.2599	0.2194	0.2194	0.01251064	2610	0.03265277	0.313889073	2.249578889
56	Kogel Bay	0.1236	0.0718	0.0718	0.000637188	2610	0.00166306	0.10272213	1.069826667
57	Kogel Bay	0.1808	0.1399	0.1399	0.003538619	2610	0.009235797	0.200150781	1.564924444
58	Kogel Bay	0.4268	0.3536	0.3536	0.053364067	2610	0.139280216	0.505885032	3.694191111
59	Kogel Bay	0.2985	0.1953	0.1953	0.011385414	2610	0.02971593	0.279409917	2.583683333
60	Kogel Bay	0.218	0.1276	0.1276	0.003549424	2610	0.009263996	0.182553535	1.886911111
61	Kogel Bay	0.0798	0.0787	0.0787	0.000494256	2610	0.001290009	0.112593756	0.690713333
62	Kogel Bay	0.134	0.0809	0.0809	0.000877005	2610	0.002288982	0.11574123	1.159844444
63	Kogel Bay	0.1286	0.0682	0.0682	0.000598149	2610	0.00156117	0.097571717	1.113104444
64	Kogel Bay	0.314	0.232	0.232	0.016900736	2610	0.044110921	0.331915519	2.717844444
65	Kogel Bay	0.1681	0.0688	0.0688	0.000795691	2610	0.002076754	0.098430119	1.454998889
66	Kogel Bay	0.5472	0.2785	0.2785	0.042442063	2610	0.110773785	0.39844169	4.73632
67	Kogel Bay	0.0882	0.06	0.06	0.00031752	2610	0.000828727	0.08584022	0.76342
68	Kogel Bay	0.077	0.0712	0.0712	0.000390347	2610	0.001018805	0.101863728	0.666477778
69	Kogel Bay	0.2758	0.1945	0.1945	0.010433583	2610	0.027231651	0.278265381	2.387202222
70	Kogel Bay	0.2273	0.0931	0.0931	0.001970148	2610	0.005142086	0.133195409	1.967407778
71	Kogel Bay	0.8286	0.568	0.568	0.267326246	2610	0.697721503	0.812620753	7.171993333
72	Kogel Bay	0.1716	0.0965	0.0965	0.001597982	2610	0.004170733	0.138059688	1.485293333
73	Kogel Bay	0.1946	0.1212	0.1212	0.002858565	2610	0.007460855	0.173397245	1.684371111
74	Kogel Bay	0.1146	0.0774	0.0774	0.000686541	2610	0.001791872	0.110733884	0.991926667
75	Kogel Bay	0.096	0.049	0.049	0.000230496	2610	0.000601595	0.070102847	0.830933333
76	Kogel Bay	0.046	0.0349	0.0349	5.60285E-05	2610	0.000146234	0.049930395	0.398155556
77	Kogel Bay	0.0885	0.0471	0.0471	0.000196329	2610	0.000512419	0.067384573	0.766016667
78	Kogel Bay	0.1443	0.0517	0.0517	0.000385698	2610	0.001006672	0.073965657	1.248996667
79	Kogel Bay	0.1225	0.0939	0.0939	0.001080108	2610	0.002819082	0.134339945	1.060305556
80	Kogel Bay	0.6428	0.475	0.475	0.14503175	2610	0.378532868	0.679568411	5.563791111
81	Kogel Bay	0.2194	0.1696	0.1696	0.006310857	2610	0.016471336	0.24264169	1.899028889
82	Kogel Bay	0.6142	0.3244	0.3244	0.064635558	2610	0.168698807	0.464109458	5.316242222
83	Kogel Bay	0.1648	0.1565	0.1565	0.004036323	2610	0.010534803	0.223899908	1.426435556
84	Kogel Bay	0.1262	0.1127	0.1127	0.001602903	2610	0.004183576	0.161236547	1.092331111
85	Kogel Bay	0.2512	0.1858	0.1858	0.008671836	2610	0.022633492	0.265818549	2.174275556
86	Kogel Bay	0.0452	0.0445	0.0445	8.95073E-05	2610	0.000233614	0.06366483	0.391231111
87	Kogel Bay	0.0427	0.0368	0.0368	5.7826E-05	2610	0.000150926	0.052648669	0.369592222
88	Kogel Bay	0.0679	0.0335	0.0335	7.62008E-05	2610	0.000198884	0.047927456	0.587712222
89	Kogel Bay	0.0853	0.0394	0.0394	0.000132416	2610	0.000345607	0.056368411	0.738318889
90	Kogel Bay	0.0789	0.0664	0.0664	0.000347867	2610	0.000907933	0.094996511	0.682923333
91	Kogel Bay	0.0898	0.0521	0.0521	0.000243754	2610	0.000636198	0.074537925	0.777268889
92	Kogel Bay	0.0526	0.033	0.033	5.72814E-05	2610	0.000149504	0.047212121	0.455282222
93	Kogel Bay	0.054	0.0297	0.0297	4.76329E-05	2610	0.000124322	0.042490909	0.4674
94	Kogel Bay	0.0575	0.0365	0.0365	7.66044E-05	2610	0.000199937	0.052219467	0.497694444
95	Kogel Bay	0.214	0.1612	0.1612	0.005560884	2610	0.014513908	0.230624059	1.852288889

96	Kogel Bay	0.5912	0.3396	0.3396	0.068182008	2610	0.177955041	0.485855647	5.117164444
97	Kogel Bay	0.1353	0.1268	0.1268	0.002175386	2610	0.005677757	0.181408999	1.171096667
98	Kogel Bay	0.6014	0.5039	0.5039	0.152704607	2610	0.398559025	0.720914784	5.205451111
99	Kogel Bay	0.1243	0.1208	0.1208	0.001813865	2610	0.004734188	0.172824977	1.075885556
100	Kogel Bay	0.1022	0.0875	0.0875	0.000782469	2610	0.002042243	0.125183655	0.884597778
101	Kogel Bay	0.2285	0.1723	0.1723	0.006783546	2610	0.017705054	0.2465045	1.977794444
102	Kogel Bay	0.3667	0.3502	0.3502	0.044972103	2610	0.117377188	0.501020753	3.173992222
103	Kogel Bay	0.6127	0.4669	0.4669	0.13356591	2610	0.348607026	0.667979982	5.303258889
104	Kogel Bay	0.7846	0.6553	0.6553	0.336921433	2610	0.879364941	0.937518274	6.791148889
105	Kogel Bay	0.1223	0.1189	0.1189	0.001728981	2610	0.00451264	0.170106703	1.058574444
106	Kogel Bay	0.496	0.4773	0.4773	0.112996384	2610	0.294920562	0.682858953	4.293155556
107	Kogel Bay	0.1147	0.101	0.101	0.001170055	2610	0.003053843	0.144497704	0.992792222
108	Kogel Bay	0.1268	0.0856	0.0856	0.000929109	2610	0.002424975	0.122465381	1.097524444
109	Kogel Bay	0.5673	0.2404	0.2404	0.032785492	2610	0.085570135	0.34393315	4.910296667
110	Kogel Bay	0.1008	0.0265	0.0265	7.07868E-05	2610	0.000184754	0.037912764	0.87248
111	Kogel Bay	0.0982	0.0823	0.0823	0.000665137	2610	0.001736008	0.117744169	0.849975556
112	Kogel Bay	0.2653	0.1114	0.1114	0.003292362	2610	0.008593066	0.159376676	2.296318889
113	Kogel Bay	0.3141	0.1573	0.1573	0.007771867	2610	0.020284574	0.225044444	2.71871
114	Kogel Bay	0.0907	0.087	0.087	0.000686508	2610	0.001791787	0.12446832	0.785058889
115	Kogel Bay	0.1288	0.1067	0.1067	0.001466374	2610	0.003827236	0.152652525	1.114835556
116	Kogel Bay	0.0905	0.0513	0.0513	0.000238168	2610	0.000621618	0.073393388	0.783327778
117	Kogel Bay	0.0637	0.0518	0.0518	0.000170922	2610	0.000446107	0.074108724	0.551358889
118	Kogel Bay	0.1054	0.0539	0.0539	0.000306209	2610	0.000799206	0.077113131	0.912295556
119	Kogel Bay	0.1651	0.0465	0.0465	0.000356987	2610	0.000931737	0.066526171	1.429032222
120	Kogel Bay	0.0816	0.0802	0.0802	0.000524854	2610	0.00136987	0.114739761	0.706293333
121	Kogel Bay	0.2775	0.1329	0.1329	0.004901319	2610	0.012792442	0.190136088	2.401916667
122	Kogel Bay	0.1428	0.0593	0.0593	0.000502155	2610	0.001310624	0.084838751	1.236013333
123	Kogel Bay	0.2103	0.1365	0.1365	0.003918362	2610	0.010226925	0.195286501	1.820263333
124	Kogel Bay	0.0943	0.101	0.101	0.000961954	2610	0.002510701	0.144497704	0.816218889
125	Kogel Bay	0.1679	0.122	0.122	0.002499024	2610	0.006522452	0.174541781	1.453267778
126	Kogel Bay	0.1057	0.0537	0.0537	0.000304806	2610	0.000795544	0.076826997	0.914892222
127	Kogel Bay	0.0596	0.0461	0.0461	0.000126663	2610	0.000330589	0.065953903	0.515871111
128	Kogel Bay	0.057	0.0366	0.0366	7.63549E-05	2610	0.000199286	0.052362534	0.493366667
129	Kogel Bay	0.0999	0.062	0.062	0.000384016	2610	0.001002281	0.088701561	0.86469
130	Kogel Bay	0.0883	0.0382	0.0382	0.000128851	2610	0.000336301	0.054651607	0.764285556
131	Kogel Bay	0.0964	0.0544	0.0544	0.000285282	2610	0.000744587	0.077828466	0.834395556
132	Kogel Bay	0.1548	0.0894	0.0894	0.001237217	2610	0.003229137	0.127901928	1.33988
133	Kogel Bay	0.201	0.168	0.168	0.005673024	2610	0.014806593	0.240352617	1.739766667
134	Kogel Bay	0.1247	0.0642	0.0642	0.000513969	2610	0.001341458	0.091849036	1.079347778
135	Kogel Bay	0.2092	0.119	0.119	0.002962481	2610	0.007732076	0.17024977	1.810742222
136	Kogel Bay	0.1852	0.1124	0.1124	0.002339772	2610	0.006106806	0.160807346	1.603008889
137	Kogel Bay	0.0892	0.0459	0.0459	0.000187927	2610	0.000490491	0.065667769	0.772075556
138	Kogel Bay	0.1861	0.1173	0.1173	0.002560604	2610	0.006683176	0.167817631	1.610798889
139	Kogel Bay	1.5607	0.5298	0.5298	0.438069824	2610	1.143362241	0.757969146	13.50872556
140	Kogel Bay	0.2222	0.1769	0.1769	0.00695344	2610	0.018148479	0.253085583	1.923264444
141	Kogel Bay	0.2547	0.1273	0.1273	0.004127487	2610	0.010772742	0.182124334	2.20457
142	Kogel Bay	0.176	0.1006	0.1006	0.001781183	2610	0.004648889	0.143925436	1.523377778
143	Kogel Bay	0.0705	0.0577	0.0577	0.000234715	2610	0.000612606	0.082549679	0.610216667
144	Kogel Bay	0.0925	0.073	0.073	0.000492933	2610	0.001286554	0.104438935	0.800638889
145	Kogel Bay	0.069	0.0624	0.0624	0.000268669	2610	0.000701227	0.089273829	0.597233333
146	Kogel Bay	0.102	0.0698	0.0698	0.000496948	2610	0.001297034	0.09986079	0.882866667
147	Kogel Bay	0.0894	0.0634	0.0634	0.000359349	2610	0.0009379	0.0907045	0.773806667

148	Kogel Bay	0.137	0.0732	0.0732	0.000734079	2610	0.001915946	0.104725069	1.185811111
149	Kogel Bay	0.0769	0.0671	0.0671	0.000346235	2610	0.000903674	0.09599798	0.665612222
150	Kogel Bay	0.0812	0.0479	0.0479	0.000186306	2610	0.000486259	0.068529109	0.702831111
151	Kogel Bay	0.183	0.0885	0.0885	0.001433302	2610	0.003740918	0.126614325	1.583966667
152	Kogel Bay	0.2658	0.1926	0.1926	0.009859787	2610	0.025734045	0.275547107	2.300646667
153	Kogel Bay	0.1253	0.0865	0.0865	0.000937526	2610	0.002446943	0.123752984	1.084541111
154	Kogel Bay	0.2127	0.0732	0.0732	0.001139698	2610	0.002974611	0.104725069	1.841036667
155	Kogel Bay	0.0942	0.0631	0.0631	0.000375068	2610	0.000978927	0.090275298	0.815353333
156	Kogel Bay	0.1709	0.0821	0.0821	0.001151936	2610	0.003006553	0.117458035	1.479234444
157	Kogel Bay	0.17	0.1062	0.1062	0.001917335	2610	0.005004244	0.15193719	1.471444444
158	Kogel Bay	0.0878	0.0513	0.0513	0.000231062	2610	0.000603073	0.073393388	0.759957778
159	Kogel Bay	0.0706	0.045	0.045	0.000142965	2610	0.000373139	0.064380165	0.611082222
160	Kogel Bay	0.0809	0.0502	0.0502	0.000203871	2610	0.000532104	0.071819651	0.700234444
161	Kogel Bay	0.2914	0.1693	0.1693	0.00835225	2610	0.021799371	0.242212489	2.522228889
162	Kogel Bay	0.3047	0.14	0.14	0.00597212	2610	0.015587233	0.200293848	2.637347778
163	Kogel Bay	0.0662	0.0518	0.0518	0.00017763	2610	0.000463616	0.074108724	0.572997778
164	Kogel Bay	0.1935	0.1422	0.1422	0.003912733	2610	0.010212232	0.203441322	1.67485
165	Kogel Bay	0.2553	0.1393	0.1393	0.004953966	2610	0.012929852	0.199292378	2.209763333
166	Kogel Bay	0.3183	0.2183	0.2183	0.015168551	2610	0.039589919	0.312315335	2.755063333
4)1	Kogel Bay	0.5251	0.3422	0.3422	0.061489651	2610	0.160487989	0.48957539	4.545032222
2	Kogel Bay	0.5347	0.4656	0.4656	0.115914063	2610	0.302535703	0.66612011	4.628125556
3	Kogel Bay	0.1068	0.0577	0.0577	0.000355568	2610	0.000928033	0.082549679	0.924413333
4	Kogel Bay	0.1376	0.1348	0.1348	0.002500335	2610	0.006525875	0.192854362	1.191004444
5	Kogel Bay	0.6923	0.5959	0.5959	0.245833522	2610	0.641625491	0.852536455	5.992241111
6	Kogel Bay	0.2134	0.1649	0.1649	0.005802775	2610	0.015145243	0.235917539	1.847095556
7	Kogel Bay	0.1704	0.1531	0.1531	0.00399411	2610	0.010424626	0.219035629	1.474906667
8	Kogel Bay	0.1814	0.0905	0.0905	0.001485711	2610	0.003877707	0.129475666	1.570117778
9	Kogel Bay	0.0786	0.0599	0.0599	0.000282018	2610	0.000736066	0.085697153	0.680326667
10	Kogel Bay	0.0979	0.0576	0.0576	0.000324809	2610	0.000847751	0.082406612	0.847378889
11	Kogel Bay	0.1215	0.0691	0.0691	0.000580139	2610	0.001514164	0.09885932	1.05165
12	Kogel Bay	0.1761	0.0724	0.0724	0.000923074	2610	0.002409223	0.103580533	1.524243333
13	Kogel Bay	0.4478	0.4449	0.4449	0.088635745	2610	0.231339295	0.636505234	3.875957778
14	Kogel Bay	0.1725	0.1407	0.1407	0.003414895	2610	0.008912875	0.201295317	1.493083333
15	Kogel Bay	0.295	0.2401	0.2401	0.017006163	2610	0.044386085	0.343503949	2.553388889
16	Kogel Bay	0.142	0.0716	0.0716	0.000727972	2610	0.001900006	0.102435996	1.229088889
17	Kogel Bay	0.1124	0.0513	0.0513	0.000295802	2610	0.000772043	0.073393388	0.972884444
18	Kogel Bay	0.0561	0.054	0.054	0.000163588	2610	0.000426964	0.077256198	0.485576667
19	Kogel Bay	0.0599	0.0454	0.0454	0.000123463	2610	0.00032224	0.064952433	0.518467778
20	Kogel Bay	0.0702	0.0396	0.0396	0.000110085	2610	0.000287321	0.056654545	0.60762
21	Kogel Bay	0.1168	0.0383	0.0383	0.000171333	2610	0.000447178	0.054794674	1.010968889
22	Kogel Bay	0.1109	0.0573	0.0573	0.000364117	2610	0.000950345	0.08197741	0.959901111
23	Kogel Bay	0.0727	0.0529	0.0529	0.000203444	2610	0.00053099	0.075682461	0.629258889
24	Kogel Bay	0.0735	0.0564	0.0564	0.000233801	2610	0.000610219	0.080689807	0.636183333
25	Kogel Bay	0.1927	0.122	0.122	0.002868147	2610	0.007485863	0.174541781	1.667925556
26	Kogel Bay	0.1102	0.0643	0.0643	0.000455621	2610	0.00118917	0.091992103	0.953842222
27	Kogel Bay	0.1758	0.0848	0.0848	0.001264185	2610	0.003299522	0.121320845	1.521646667
28	Kogel Bay	0.0684	0.038	0.038	9.87696E-05	2610	0.000257789	0.054365473	0.59204
29	Kogel Bay	0.0547	0.0437	0.0437	0.00010446	2610	0.000272641	0.062520294	0.473458889
30	Kogel Bay	0.0779	0.0457	0.0457	0.000162693	2610	0.00042463	0.065381635	0.674267778
31	Kogel Bay	0.0462	0.0413	0.0413	7.88029E-05	2610	0.000205676	0.059086685	0.399886667
32	Kogel Bay	0.0627	0.0435	0.0435	0.000118644	2610	0.000309661	0.06223416	0.542703333
33	Kogel Bay	0.0546	0.0391	0.0391	8.3473E-05	2610	0.000217865	0.05593921	0.472593333

34 Kogel Bay	0.0556	0.0355	0.0355	7.00699E-05	2610	0.000182882	0.050788797	0.481248889
35 Kogel Bay	0.0548	0.0284	0.0284	4.41995E-05	2610	0.000115361	0.040631038	0.474324444
36 Kogel Bay	0.0542	0.0485	0.0485	0.000127492	2610	0.000332754	0.069387511	0.469131111
37 Kogel Bay	0.0658	0.0406	0.0406	0.000108462	2610	0.000283086	0.058085216	0.569535556
38 Kogel Bay	0.0864	0.0452	0.0452	0.000176519	2610	0.000460714	0.064666299	0.74784
39 Kogel Bay	0.1172	0.0732	0.0732	0.000627986	2610	0.001639043	0.104725069	1.014431111
40 Kogel Bay	0.0991	0.0787	0.0787	0.000613795	2610	0.001602004	0.112593756	0.857765556
41 Kogel Bay	0.1103	0.0852	0.0852	0.000800672	2610	0.002089754	0.121893113	0.954707778
42 Kogel Bay	0.1084	0.0633	0.0633	0.000434347	2610	0.001133645	0.090561433	0.938262222
43 Kogel Bay	0.0749	0.0717	0.0717	0.000385053	2610	0.001004987	0.102579063	0.648301111
44 Kogel Bay	0.07	0.0624	0.0624	0.000272563	2610	0.00071139	0.089273829	0.605888889
45 Kogel Bay	0.0936	0.0797	0.0797	0.000594556	2610	0.00155179	0.114024426	0.81016
46 Kogel Bay	0.1527	0.0825	0.0825	0.001039314	2610	0.002712611	0.118030303	1.321703333
47 Kogel Bay	0.1738	0.1505	0.1505	0.003936613	2610	0.010274561	0.215315886	1.504335556
48 Kogel Bay	0.1299	0.1033	0.1033	0.001386149	2610	0.003617848	0.147788246	1.124356667
49 Kogel Bay	0.2971	0.2954	0.2954	0.025925291	2610	0.067665009	0.422620018	2.571565556
50 Kogel Bay	0.8686	0.5492	0.5492	0.261987688	2610	0.683787865	0.785724151	7.518215556
51 Kogel Bay	0.241	0.2109	0.2109	0.010719393	2610	0.027977616	0.301728375	2.085988889
52 Kogel Bay	0.1227	0.111	0.111	0.001511787	2610	0.003945763	0.158804408	1.062036667
53 Kogel Bay	0.1502	0.1133	0.1133	0.001928101	2610	0.005032343	0.162094949	1.300064444
54 Kogel Bay	0.35	0.2244	0.2244	0.017624376	2610	0.045999621	0.321042424	3.029444444
55 Kogel Bay	0.1291	0.0627	0.0627	0.00050753	2610	0.001324652	0.08970303	1.117432222
56 Kogel Bay	0.1215	0.0675	0.0675	0.000553584	2610	0.001444855	0.096570248	1.05165
57 Kogel Bay	0.3014	0.2592	0.2592	0.02024945	2610	0.052851066	0.370829752	2.608784444
58 Kogel Bay	0.0921	0.0848	0.0848	0.000662295	2610	0.001728589	0.121320845	0.797176667
59 Kogel Bay	0.0526	0.0466	0.0466	0.000114224	2610	0.000298125	0.066669238	0.455282222
60 Kogel Bay	0.1602	0.1153	0.1153	0.002129713	2610	0.005558551	0.16495629	1.38662
61 Kogel Bay	0.0803	0.035	0.035	9.83675E-05	2610	0.000256739	0.050073462	0.695041111
62 Kogel Bay	0.1538	0.0513	0.0513	0.000404754	2610	0.001056408	0.073393388	1.331224444
63 Kogel Bay	0.3129	0.2104	0.2104	0.013851507	2610	0.036152434	0.301013039	2.708323333
64 Kogel Bay	0.0706	0.0291	0.0291	5.97848E-05	2610	0.000156038	0.041632507	0.611082222
65 Kogel Bay	0.048	0.0288	0.0288	3.98131E-05	2610	0.000103912	0.041203306	0.415466667
66 Kogel Bay	0.0909	0.0802	0.0802	0.000584672	2610	0.001525995	0.114739761	0.78679
67 Kogel Bay	0.0803	0.0315	0.0315	7.96777E-05	2610	0.000207959	0.045066116	0.695041111
68 Kogel Bay	0.1984	0.1691	0.1691	0.00567321	2610	0.014807079	0.241926354	1.717262222
69 Kogel Bay	0.2698	0.1436	0.1436	0.005563535	2610	0.014520826	0.205444261	2.335268889
70 Kogel Bay	0.0777	0.0466	0.0466	0.00016873	2610	0.000440386	0.066669238	0.672536667
71 Kogel Bay	0.0998	0.0551	0.0551	0.000302994	2610	0.000790814	0.078829936	0.863824444
72 Kogel Bay	0.1107	0.0407	0.0407	0.000183373	2610	0.000478605	0.058228283	0.95817
73 Kogel Bay	0.1737	0.0739	0.0739	0.000948612	2610	0.002475878	0.105726538	1.50347
74 Kogel Bay	0.5135	0.4258	0.4258	0.093100446	2610	0.242992164	0.609179431	4.444627778
75 Kogel Bay	0.2221	0.055	0.055	0.000671853	2610	0.001753535	0.078686869	1.922398889
76 Kogel Bay	0.0726	0.0563	0.0563	0.000230119	2610	0.000600612	0.08054674	0.628393333
77 Kogel Bay	0.094	0.0641	0.0641	0.000386228	2610	0.001008055	0.091705969	0.813622222
78 Kogel Bay	0.0705	0.0465	0.0465	0.000152439	2610	0.000397865	0.066526171	0.610216667
79 Kogel Bay	0.0534	0.036	0.036	6.92064E-05	2610	0.000180629	0.051504132	0.462206667
80 Kogel Bay	0.108	0.0825	0.0825	0.000735075	2610	0.001918546	0.118030303	0.9348
81 Kogel Bay	0.219	0.111	0.111	0.002698299	2610	0.00704256	0.158804408	1.895566667
82 Kogel Bay	0.0432	0.0249	0.0249	2.67844E-05	2610	6.99074E-05	0.035623691	0.37392
83 Kogel Bay	0.102	0.0481	0.0481	0.000235988	2610	0.000615929	0.068815243	0.882866667
84 Kogel Bay	0.0952	0.0587	0.0587	0.00032803	2610	0.000856157	0.083980349	0.824008889
85 Kogel Bay	0.2504	0.0706	0.0706	0.001248084	2610	0.003257499	0.101005326	2.167351111

86 Kogel Bay	0.1165	0.0627	0.0627	0.000457995	2610	0.001195368	0.08970303	1.008372222
87 Kogel Bay	0.1465	0.1084	0.1084	0.001721457	2610	0.004493003	0.155084665	1.268038889
88 Kogel Bay	0.1041	0.0889	0.0889	0.000822724	2610	0.00214731	0.127186593	0.901043333
89 Kogel Bay	0.1436	0.0777	0.0777	0.000866955	2610	0.002262752	0.111163085	1.242937778
90 Kogel Bay	0.0692	0.0415	0.0415	0.00011918	2610	0.000311059	0.059372819	0.598964444
91 Kogel Bay	0.1916	0.0691	0.0691	0.000914854	2610	0.002387768	0.09885932	1.658404444
92 Kogel Bay	0.1885	0.0656	0.0656	0.000811183	2610	0.002117189	0.093851974	1.631572222
93 Kogel Bay	0.2039	0.1511	0.1511	0.004655284	2610	0.012150291	0.216174288	1.764867778
94 Kogel Bay	0.1256	0.068	0.068	0.000580774	2610	0.001515821	0.097285583	1.087137778
95 Kogel Bay	0.1756	0.0812	0.0812	0.001157808	2610	0.003021879	0.116170432	1.519915556
96 Kogel Bay	0.2868	0.1643	0.1643	0.00774202	2610	0.020206672	0.235059137	2.482413333
97 Kogel Bay	0.392	0.2125	0.2125	0.01770125	2610	0.046200263	0.304017447	3.392977778
98 Kogel Bay	0.6739	0.7799	0.7799	0.409895638	2610	1.069827616	1.115779798	5.832978889
99 Kogel Bay	0.953	0.8461	0.8461	0.682238605	2610	1.780642759	1.210490174	8.248744444
100 Kogel Bay	0.0643	0.0288	0.0288	5.3333E-05	2610	0.000139199	0.041203306	0.556552222
101 Kogel Bay	0.0527	0.0508	0.0508	0.000136	2610	0.000354959	0.072678053	0.456147778
102 Kogel Bay	0.0705	0.0263	0.0263	4.87641E-05	2610	0.000127274	0.03762663	0.610216667
103 Kogel Bay	0.1928	0.1598	0.1598	0.004923349	2610	0.01284994	0.22862112	1.668791111
104 Kogel Bay	0.1213	0.1185	0.1185	0.001703325	2610	0.004445678	0.169534435	1.049918889
105 Kogel Bay	0.2454	0.2395	0.2395	0.014076205	2610	0.036738896	0.342645546	2.124073333
106 Kogel Bay	0.1363	0.076	0.076	0.000787269	2610	0.002054772	0.108730946	1.179752222
107 Kogel Bay	0.09	0.0804	0.0804	0.000581774	2610	0.001518431	0.115025895	0.779
108 Kogel Bay	0.1212	0.0751	0.0751	0.000683569	2610	0.001784116	0.107443343	1.049053333
109 Kogel Bay	0.1668	0.0938	0.0938	0.00146758	2610	0.003830383	0.134196878	1.443746667
110 Kogel Bay	0.1355	0.1238	0.1238	0.002076733	2610	0.005420272	0.177116988	1.172827778
111 Kogel Bay	0.0638	0.0608	0.0608	0.000235846	2610	0.000615557	0.086984757	0.552224444
112 Kogel Bay	0.0467	0.0374	0.0374	6.53221E-05	2610	0.000170491	0.053507071	0.404214444
113 Kogel Bay	0.0385	0.0304	0.0304	3.55802E-05	2610	9.28642E-05	0.043492378	0.333238889
114 Kogel Bay	0.5724	0.525	0.525	0.15776775	2610	0.411773828	0.751101928	4.95444
115 Kogel Bay	0.8059	0.747	0.747	0.449699453	2610	1.173715573	1.068710744	6.975512222
116 Kogel Bay	0.2617	0.1698	0.1698	0.007545345	2610	0.01969335	0.242927824	2.265158889
117 Kogel Bay	0.065	0.0363	0.0363	8.56499E-05	2610	0.000223546	0.051933333	0.562611111
118 Kogel Bay	0.0591	0.0392	0.0392	9.08154E-05	2610	0.000237028	0.056082277	0.511543333
119 Kogel Bay	0.1253	0.0943	0.0943	0.001114229	2610	0.002908138	0.134912213	1.084541111
120 Kogel Bay	0.0972	0.0619	0.0619	0.000372432	2610	0.000972049	0.088558494	0.84132
121 Kogel Bay	0.0989	0.0553	0.0553	0.000302445	2610	0.000789382	0.07911607	0.856034444
122 Kogel Bay	0.0929	0.0854	0.0854	0.000677535	2610	0.001768365	0.122179247	0.804101111
123 Kogel Bay	0.1329	0.0981	0.0981	0.001278978	2610	0.003338132	0.14034876	1.150323333
124 Kogel Bay	0.1366	0.0617	0.0617	0.000520021	2610	0.001357255	0.08827236	1.182348889
125 Kogel Bay	0.1083	0.0881	0.0881	0.000840582	2610	0.00219392	0.126042057	0.937396667
126 Kogel Bay	0.6278	0.2421	0.2421	0.036796871	2610	0.096039833	0.346365289	5.433957778
127 Kogel Bay	0.0606	0.045	0.045	0.000122715	2610	0.000320286	0.064380165	0.524526667
128 Kogel Bay	0.0925	0.0398	0.0398	0.000146524	2610	0.000382427	0.05694068	0.800638889
129 Kogel Bay	0.2507	0.1137	0.1137	0.003240972	2610	0.008458937	0.162667218	2.169947778
130 Kogel Bay	0.1363	0.0701	0.0701	0.00066978	2610	0.001748125	0.100289991	1.179752222
131 Kogel Bay	0.1585	0.0604	0.0604	0.000578233	2610	0.001509189	0.086412489	1.371905556
132 Kogel Bay	0.0845	0.0839	0.0839	0.000594813	2610	0.001552463	0.120033242	0.731394444
133 Kogel Bay	0.126	0.0673	0.0673	0.000570691	2610	0.001489502	0.096284114	1.0906
134 Kogel Bay	0.1109	0.1079	0.1079	0.001291143	2610	0.003369884	0.15436933	0.959901111
135 Kogel Bay	0.1809	0.0892	0.0892	0.001439356	2610	0.00375672	0.127615794	1.56579
136 Kogel Bay	0.1212	0.1053	0.1053	0.001343877	2610	0.003507518	0.150649587	1.049053333
137 Kogel Bay	0.0927	0.0708	0.0708	0.000464672	2610	0.001212793	0.10129146	0.80237

138	Kogel Bay	0.1336	0.0693	0.0693	0.000641613	2610	0.001674609	0.099145455	1.156382222
139	Kogel Bay	0.0801	0.0517	0.0517	0.000214098	2610	0.000558797	0.073965657	0.69331
140	Kogel Bay	0.0808	0.0803	0.0803	0.000521006	2610	0.001359825	0.114882828	0.699368889
141	Kogel Bay	0.0955	0.0526	0.0526	0.000264226	2610	0.000689629	0.07525326	0.826605556
142	Kogel Bay	0.332	0.1327	0.1327	0.005846284	2610	0.015258802	0.189849954	2.873644444
143	Kogel Bay	0.0673	0.0542	0.0542	0.000197703	2610	0.000516005	0.077542332	0.582518889
144	Kogel Bay	0.4371	0.3056	0.3056	0.040821363	2610	0.106543759	0.437212856	3.783343333
145	Kogel Bay	0.1806	0.063	0.063	0.000716801	2610	0.001870852	0.090132231	1.563193333
146	Kogel Bay	0.1066	0.041	0.041	0.000179195	2610	0.000467698	0.058657484	0.922682222
147	Kogel Bay	0.1437	0.0949	0.0949	0.001294164	2610	0.003377767	0.135770615	1.243803333
148	Kogel Bay	0.1713	0.1105	0.1105	0.002091616	2610	0.005459117	0.158089073	1.482696667
149	Kogel Bay	0.3011	0.2678	0.2678	0.021593941	2610	0.056360185	0.383133517	2.606187778
150	Kogel Bay	0.145	0.0894	0.0894	0.001158892	2610	0.003024709	0.127901928	1.255055556
151	Kogel Bay	0.5422	0.2707	0.2707	0.039731597	2610	0.103699469	0.387282461	4.693042222
152	Kogel Bay	0.4058	0.2321	0.2321	0.021860612	2610	0.057056198	0.332058586	3.512424444
153	Kogel Bay	0.1207	0.0824	0.0824	0.000819524	2610	0.002138958	0.117887236	1.044725556
154	Kogel Bay	0.1402	0.05	0.05	0.0003505	2610	0.000914805	0.071533517	1.213508889
155	Kogel Bay	0.0985	0.0606	0.0606	0.000361727	2610	0.000944109	0.086698623	0.852572222
156	Kogel Bay	0.1345	0.0692	0.0692	0.000644072	2610	0.001681028	0.099002388	1.164172222
157	Kogel Bay	0.2067	0.124	0.124	0.003178219	2610	0.008295152	0.177403122	1.789103333
158	Kogel Bay	0.1034	0.0664	0.0664	0.000455886	2610	0.001189864	0.094996511	0.894984444
159	Kogel Bay	0.1	0.067	0.067	0.0004489	2610	0.001171629	0.095854913	0.865555556
160	Kogel Bay	0.2139	0.0936	0.0936	0.001873969	2610	0.00489106	0.133910744	1.851423333
161	Kogel Bay	0.1012	0.0419	0.0419	0.000177668	2610	0.000463713	0.059945087	0.875942222
162	Kogel Bay	0.1551	0.064	0.064	0.00063529	2610	0.001658106	0.091562902	1.342476667
163	Kogel Bay	0.1051	0.077	0.077	0.000623138	2610	0.00162639	0.110161616	0.909698889
164	Kogel Bay	0.0929	0.0879	0.0879	0.000717783	2610	0.001873415	0.125755923	0.804101111
165	Kogel Bay	0.0633	0.0562	0.0562	0.000199929	2610	0.000521815	0.080403673	0.547896667
166	Kogel Bay	0.1276	0.1021	0.1021	0.001330155	2610	0.003471704	0.146071442	1.104448889
167	Kogel Bay	0.0645	0.0626	0.0626	0.00025276	2610	0.000659704	0.089559963	0.558283333
168	Kogel Bay	0.168	0.1558	0.1558	0.004077972	2610	0.010643506	0.222898439	1.454133333
169	Kogel Bay	0.087	0.0592	0.0592	0.000304904	2610	0.000795799	0.084695684	0.753033333
170	Kogel Bay	0.1057	0.069	0.069	0.000503238	2610	0.00131345	0.098716253	0.914892222
171	Kogel Bay	0.0813	0.0499	0.0499	0.000202438	2610	0.000528363	0.07139045	0.703696667
172	Kogel Bay	0.0887	0.0837	0.0837	0.000621405	2610	0.001621866	0.119747107	0.767747778
173	Kogel Bay	0.2086	0.1236	0.1236	0.003186774	2610	0.00831748	0.176830854	1.805548889
174	Kogel Bay	0.0989	0.0663	0.0663	0.000434734	2610	0.001134655	0.094853444	0.856034444
175	Kogel Bay	0.6133	0.4521	0.4521	0.125355092	2610	0.327176789	0.646806061	5.308452222
176	Kogel Bay	0.1353	0.0701	0.0701	0.000664866	2610	0.001735299	0.100289991	1.171096667
177	Kogel Bay	0.123	0.0936	0.0936	0.001077598	2610	0.002812531	0.133910744	1.064633333
178	Kogel Bay	0.5163	0.3874	0.3874	0.077485664	2610	0.202237582	0.55424169	4.468863333
179	Kogel Bay	0.3979	0.2378	0.2378	0.022500783	2610	0.058727045	0.340213407	3.444045556
180	Kogel Bay	0.258	0.1734	0.1734	0.00775743	2610	0.020246894	0.248078237	2.233133333
181	Kogel Bay	0.0941	0.0752	0.0752	0.000532139	2610	0.001388883	0.10758641	0.814487778
182	Kogel Bay	0.1526	0.0827	0.0827	0.001043676	2610	0.002723993	0.118316437	1.320837778
5)1	Kogel Bay	0.56517	0.46822	0.46822	0.123902201	2610	0.323384745	0.669868466	4.891860333
2	Kogel Bay	0.33738	0.16743	0.16743	0.009457708	2610	0.024684617	0.239537135	2.920211333
3	Kogel Bay	0.21653	0.10471	0.10471	0.002374075	2610	0.006196335	0.149805491	1.874187444
4	Kogel Bay	0.15038	0.03678	0.03678	0.000203429	2610	0.000530951	0.052620055	1.301622444
5	Kogel Bay	0.13407	0.0762	0.0762	0.000778469	2610	0.002031805	0.10901708	1.160450333
6	Kogel Bay	0.05481	0.04313	0.04313	0.000101957	2610	0.000266109	0.061704812	0.474411
7	Kogel Bay	0.06909	0.06282	0.06282	0.000272653	2610	0.000711626	0.089874711	0.598012333

8	Kogel Bay	0.13689	0.10128	0.10128	0.001404168	2610	0.003664879	0.144898292	1.184859
9	Kogel Bay	0.07533	0.06299	0.06299	0.00029889	2610	0.000780103	0.090117925	0.652023
10	Kogel Bay	0.60486	0.1687	0.1687	0.017214128	2610	0.044928874	0.241354086	5.235399333
11	Kogel Bay	0.03986	0.03487	0.03487	4.84664E-05	2610	0.000126497	0.049887475	0.345010444
12	Kogel Bay	0.05153	0.05018	0.05018	0.000129754	2610	0.000338658	0.071791038	0.446020778
13	Kogel Bay	0.08603	0.06549	0.06549	0.000368978	2610	0.000963031	0.093694601	0.744637444
14	Kogel Bay	0.04796	0.02808	0.02808	3.78158E-05	2610	9.86993E-05	0.040173223	0.415120444
15	Kogel Bay	0.06325	0.03119	0.03119	6.15306E-05	2610	0.000160595	0.044622608	0.547463889
16	Kogel Bay	0.06761	0.04338	0.04338	0.00012723	2610	0.000332071	0.062062479	0.585202111
17	Kogel Bay	0.0395	0.03012	0.03012	3.5835E-05	2610	9.35293E-05	0.043091791	0.341894444
18	Kogel Bay	0.10954	0.05224	0.05224	0.000298937	2610	0.000780224	0.074738219	0.948129556
19	Kogel Bay	0.07106	0.03283	0.03283	7.65891E-05	2610	0.000199898	0.046968907	0.615063778
20	Kogel Bay	0.1087	0.08313	0.08313	0.000751182	2610	0.001960585	0.118931625	0.940858889
21	Kogel Bay	0.10021	0.05524	0.05524	0.000305787	2610	0.000798103	0.07903023	0.867373222
22	Kogel Bay	0.1929	0.06895	0.06895	0.000917066	2610	0.002393543	0.09864472	1.669656667
23	Kogel Bay	0.11048	0.07591	0.07591	0.000636622	2610	0.001661583	0.108602185	0.956265778
24	Kogel Bay	0.08378	0.04454	0.04454	0.000166204	2610	0.000433792	0.063722057	0.725162444
25	Kogel Bay	0.06284	0.05622	0.05622	0.000198618	2610	0.000518392	0.080432287	0.543915111
26	Kogel Bay	0.0568	0.04869	0.04869	0.000134657	2610	0.000351454	0.069659339	0.491635556
27	Kogel Bay	0.13471	0.0832	0.0832	0.000932495	2610	0.002433812	0.119031772	1.165989889
28	Kogel Bay	0.15712	0.1057	0.1057	0.001755422	2610	0.00458165	0.151221855	1.359960889
29	Kogel Bay	0.13863	0.09211	0.09211	0.001176172	2610	0.003069809	0.131779045	1.199919667
30	Kogel Bay	0.08627	0.04885	0.04885	0.000205868	2610	0.000537316	0.069888246	0.746714778
31	Kogel Bay	0.06145	0.03248	0.03248	6.48267E-05	2610	0.000169198	0.046468173	0.531883889
32	Kogel Bay	0.08058	0.02489	0.02489	4.99203E-05	2610	0.000130292	0.035609385	0.697464667
33	Kogel Bay	0.09802	0.03909	0.03909	0.000149777	2610	0.000390919	0.055924904	0.848417556
34	Kogel Bay	0.13081	0.04136	0.04136	0.00022377	2610	0.00058404	0.059172525	1.132233222
35	Kogel Bay	0.05978	0.02641	0.02641	4.16958E-05	2610	0.000108826	0.037784004	0.517429111
36	Kogel Bay	0.07765	0.03642	0.03642	0.000102996	2610	0.00026882	0.052105014	0.672103889
37	Kogel Bay	0.11254	0.0899	0.0899	0.000909549	2610	0.002373924	0.128617264	0.974096222
38	Kogel Bay	0.07972	0.07818	0.07818	0.000487258	2610	0.001271742	0.111849807	0.690020889
39	Kogel Bay	0.16768	0.18182	0.18182	0.005543251	2610	0.014467886	0.260124481	1.451363556
40	Kogel Bay	0.09591	0.07423	0.07423	0.000528473	2610	0.001379315	0.106198659	0.830154333
41	Kogel Bay	0.56934	0.34789	0.34789	0.06890577	2610	0.179844059	0.497715904	4.927954
42	Kogel Bay	0.10365	0.0667	0.0667	0.000461127	2610	0.001203543	0.095425712	0.897148333
43	Kogel Bay	0.59472	0.40415	0.40415	0.097139913	2610	0.253535173	0.578205418	5.147632
44	Kogel Bay	0.31027	0.14458	0.14458	0.006485691	2610	0.016927652	0.206846318	2.685559222
45	Kogel Bay	0.53512	0.51362	0.51362	0.141167602	2610	0.36844744	0.7348209	4.631760889
46	Kogel Bay	0.14626	0.06116	0.06116	0.000547092	2610	0.001427911	0.087499798	1.265961556
47	Kogel Bay	0.23383	0.20805	0.20805	0.010121285	2610	0.026416555	0.297650964	2.023928556
48	Kogel Bay	1.06819	0.5905	0.5905	0.372467438	2610	0.972140014	0.844810836	9.245777889
49	Kogel Bay	0.15022	0.07497	0.07497	0.000844312	2610	0.002203653	0.107257355	1.300237556
50	Kogel Bay	0.08387	0.07771	0.07771	0.000506478	2610	0.001321907	0.111177392	0.725941444
51	Kogel Bay	0.15335	0.07936	0.07936	0.0009658	2610	0.002520737	0.113537998	1.327329444
52	Kogel Bay	0.22542	0.16267	0.16267	0.005964958	2610	0.01556854	0.232727144	1.951135333
53	Kogel Bay	0.10914	0.05301	0.05301	0.00030669	2610	0.000800461	0.075839835	0.944667333
54	Kogel Bay	0.10496	0.0581	0.0581	0.000354304	2610	0.000924734	0.083121947	0.908487111
55	Kogel Bay	0.0635	0.04489	0.04489	0.00012796	2610	0.000333975	0.064222792	0.549627778
56	Kogel Bay	0.17374	0.08715	0.08715	0.001319577	2610	0.003444095	0.12468292	1.503816222
57	Kogel Bay	0.13684	0.07623	0.07623	0.000795179	2610	0.002075417	0.10906	1.184426222
58	Kogel Bay	0.58105	0.48939	0.48939	0.13916297	2610	0.36321535	0.700155758	5.029310556
59	Kogel Bay	0.20822	0.09049	0.09049	0.001704997	2610	0.004450042	0.129461359	1.802259778

60	Kogel Bay	0.08377	0.05835	0.05835	0.000285214	2610	0.000744408	0.083479614	0.725075889
61	Kogel Bay	0.102	0.05555	0.05555	0.000314752	2610	0.000821502	0.079473737	0.882866667
62	Kogel Bay	0.10721	0.04795	0.04795	0.000246498	2610	0.000643358	0.068600643	0.927962111
63	Kogel Bay	0.46447	0.34353	0.34353	0.054813434	2610	0.143063061	0.491478182	4.020245889
64	Kogel Bay	0.06875	0.03899	0.03899	0.000104515	2610	0.000272784	0.055781837	0.595069444
65	Kogel Bay	0.12575	0.06878	0.06878	0.000594884	2610	0.001552647	0.098401506	1.088436111
66	Kogel Bay	0.12995	0.0884	0.0884	0.001015502	2610	0.00265046	0.126471258	1.124789444
67	Kogel Bay	0.13424	0.0583	0.0583	0.000456267	2610	0.001190857	0.083408081	1.161921778
68	Kogel Bay	0.10088	0.052	0.052	0.00027278	2610	0.000711955	0.074394858	0.873172444
69	Kogel Bay	0.14321	0.10519	0.10519	0.001584609	2610	0.004135831	0.150492213	1.239562111
70	Kogel Bay	0.09936	0.06512	0.06512	0.000421347	2610	0.001099717	0.093165253	0.860016
71	Kogel Bay	0.08633	0.05433	0.05433	0.000254824	2610	0.000665092	0.07772832	0.747234111
72	Kogel Bay	0.08875	0.04342	0.04342	0.00016732	2610	0.000436705	0.062119706	0.768180556
73	Kogel Bay	0.12457	0.10767	0.10767	0.001444119	2610	0.00376915	0.154040275	1.078222556
74	Kogel Bay	0.10312	0.06903	0.06903	0.000491381	2610	0.001282505	0.098759174	0.892560889
75	Kogel Bay	0.12097	0.07995	0.07995	0.000773241	2610	0.002018158	0.114382094	1.047062556
76	Kogel Bay	0.19646	0.07844	0.07844	0.001208786	2610	0.003154931	0.112221781	1.700470444
77	Kogel Bay	0.27697	0.13247	0.13247	0.004860353	2610	0.012685521	0.1895209	2.397329222
78	Kogel Bay	0.11609	0.05164	0.05164	0.000309576	2610	0.000807993	0.073879816	1.004823444
79	Kogel Bay	0.08651	0.04568	0.04568	0.000180517	2610	0.00047115	0.065353021	0.748792111
80	Kogel Bay	0.06541	0.04078	0.04078	0.000108777	2610	0.000283909	0.058342736	0.566159889
81	Kogel Bay	0.158	0.05956	0.05956	0.000560488	2610	0.001462874	0.085210725	1.367577778
82	Kogel Bay	0.14195	0.08437	0.08437	0.001010442	2610	0.002637254	0.120705657	1.228656111
83	Kogel Bay	0.10499	0.06023	0.06023	0.000380867	2610	0.000994064	0.086169275	0.908746778
84	Kogel Bay	0.09805	0.07486	0.07486	0.000549474	2610	0.001434127	0.107099982	0.848677222
85	Kogel Bay	0.15285	0.06416	0.06416	0.000629208	2610	0.001642233	0.091791809	1.323001667
86	Kogel Bay	0.11184	0.0913	0.0913	0.000932264	2610	0.002433208	0.130620202	0.968037333
87	Kogel Bay	0.12233	0.06801	0.06801	0.00056582	2610	0.001476791	0.09729989	1.058834111
88	Kogel Bay	0.2047	0.08474	0.08474	0.001469924	2610	0.003836501	0.121235005	1.771792222
89	Kogel Bay	0.12839	0.08099	0.08099	0.000842159	2610	0.002198034	0.115869991	1.111286778
90	Kogel Bay	0.13561	0.10399	0.10399	0.001466476	2610	0.003827502	0.148775409	1.173779889
91	Kogel Bay	0.2237	0.13109	0.13109	0.003844192	2610	0.010033342	0.187546575	1.936247778
92	Kogel Bay	0.09596	0.0758	0.0758	0.000551352	2610	0.001439028	0.108444812	0.830587111
93	Kogel Bay	0.5799	0.32576	0.32576	0.061538743	2610	0.160616119	0.46605517	5.019356667
94	Kogel Bay	0.13332	0.11032	0.11032	0.001622571	2610	0.004234911	0.157831552	1.153958667
95	Kogel Bay	0.15335	0.14229	0.14229	0.003104792	2610	0.008103508	0.203570083	1.327329444
96	Kogel Bay	0.06274	0.05585	0.05585	0.0001957	2610	0.000510777	0.079902938	0.543049556
97	Kogel Bay	0.22976	0.11262	0.11262	0.002914107	2610	0.007605819	0.161122094	1.988700444
98	Kogel Bay	0.09607	0.06741	0.06741	0.000436552	2610	0.001139402	0.096441488	0.831539222
99	Kogel Bay	0.16173	0.12478	0.12478	0.002518144	2610	0.006572356	0.178519045	1.399863
100	Kogel Bay	0.20539	0.1395	0.1395	0.003996941	2610	0.010432015	0.199578512	1.777764556
101	Kogel Bay	0.07427	0.05273	0.05273	0.000206504	2610	0.000538976	0.075439247	0.642848111
102	Kogel Bay	0.30354	0.21293	0.21293	0.013762256	2610	0.035919489	0.304632635	2.627307333
103	Kogel Bay	0.22877	0.22369	0.22369	0.011447014	2610	0.029876706	0.320026648	1.980131444
104	Kogel Bay	0.09426	0.07957	0.07957	0.000596796	2610	0.001557638	0.113838439	0.815872667
105	Kogel Bay	0.16987	0.16247	0.16247	0.004483974	2610	0.011703171	0.23244101	1.470319222
106	Kogel Bay	0.11226	0.06415	0.06415	0.000461975	2610	0.001205754	0.091777502	0.971672667
107	Kogel Bay	0.05577	0.03424	0.03424	6.53835E-05	2610	0.000170651	0.048986152	0.482720333
108	Kogel Bay	0.04563	0.0403	0.0403	7.41072E-05	2610	0.00019342	0.057656015	0.394953
109	Kogel Bay	0.20755	0.16168	0.16168	0.005425445	2610	0.014160411	0.231310781	1.796460556
110	Kogel Bay	0.10933	0.08704	0.08704	0.00082828	2610	0.00216181	0.124525546	0.946311889
111	Kogel Bay	0.15095	0.05377	0.05377	0.000436429	2610	0.001139079	0.076927144	1.306556111

112	Kogel Bay	0.1806	0.05388	0.05388	0.000524292	2610	0.001368401	0.077084518	1.563193333
113	Kogel Bay	0.18436	0.14855	0.14855	0.004068291	2610	0.01061824	0.212526079	1.595738222
114	Kogel Bay	0.14021	0.07107	0.07107	0.000708193	2610	0.001848384	0.101677741	1.213595444
115	Kogel Bay	0.07021	0.06438	0.06438	0.000291005	2610	0.000759524	0.092106556	0.607706556
116	Kogel Bay	0.15652	0.13009	0.13009	0.002648852	2610	0.006913503	0.186115904	1.354767556
117	Kogel Bay	0.24417	0.16754	0.16754	0.006853767	2610	0.017888331	0.239694509	2.113427
118	Kogel Bay	0.56906	0.50871	0.50871	0.147264684	2610	0.384360825	0.727796309	4.925530444
119	Kogel Bay	0.11552	0.09829	0.09829	0.00111603	2610	0.002912838	0.140620588	0.999889778
120	Kogel Bay	0.3367	0.19467	0.19467	0.012759721	2610	0.033302871	0.278508595	2.914325556
121	Kogel Bay	0.11556	0.08467	0.08467	0.000828451	2610	0.002162256	0.121134858	1.000236
122	Kogel Bay	0.12252	0.06977	0.06977	0.000596409	2610	0.001556628	0.09981787	1.060478667
123	Kogel Bay	0.3381	0.21928	0.21928	0.016257105	2610	0.042431045	0.313717392	2.926443333
124	Kogel Bay	0.13651	0.08368	0.08368	0.00095589	2610	0.002494872	0.119718494	1.181569889
125	Kogel Bay	0.05744	0.04599	0.04599	0.00012149	2610	0.000317089	0.065796529	0.497175111
126	Kogel Bay	0.09106	0.06454	0.06454	0.000379302	2610	0.000989979	0.092335464	0.788174889
127	Kogel Bay	0.07631	0.07045	0.07045	0.000378742	2610	0.000988517	0.100790725	0.660505444
128	Kogel Bay	0.09743	0.08429	0.08429	0.000692221	2610	0.001806697	0.120591203	0.843310778
129	Kogel Bay	0.13368	0.06026	0.06026	0.000485428	2610	0.001266967	0.086212195	1.157074667
130	Kogel Bay	0.05118	0.03493	0.03493	6.2445E-05	2610	0.000162981	0.049973315	0.442991333
131	Kogel Bay	0.19156	0.14114	0.14114	0.003815971	2610	0.009959684	0.201924812	1.658058222
132	Kogel Bay	0.17326	0.09091	0.09091	0.001431929	2610	0.003737336	0.130062241	1.499661556
133	Kogel Bay	0.13859	0.04865	0.04865	0.000328018	2610	0.000856127	0.069602112	1.199573444
134	Kogel Bay	0.25538	0.23712	0.23712	0.014358969	2610	0.037476909	0.339240551	2.210455778
135	Kogel Bay	0.25245	0.08455	0.08455	0.00180469	2610	0.004710241	0.120963177	2.185095
136	Kogel Bay	0.43259	0.14984	0.14984	0.009712522	2610	0.025349682	0.214371644	3.744306778
137	Kogel Bay	0.10021	0.07785	0.07785	0.000607335	2610	0.001585144	0.111377686	0.867373222
138	Kogel Bay	0.80869	0.51826	0.51826	0.217208819	2610	0.566915018	0.74145921	6.999661222
139	Kogel Bay	0.08393	0.05855	0.05855	0.000287721	2610	0.000750951	0.083765748	0.726460778
140	Kogel Bay	0.07056	0.06556	0.06556	0.000303275	2610	0.000791547	0.093794747	0.610736
141	Kogel Bay	0.13222	0.03223	0.03223	0.000137347	2610	0.000358475	0.046110505	1.144437556
142	Kogel Bay	0.1832	0.08578	0.08578	0.001348024	2610	0.003518342	0.122722902	1.585697778
143	Kogel Bay	0.12115	0.1092	0.1092	0.00144467	2610	0.003770589	0.156229201	1.048620556
144	Kogel Bay	0.14049	0.08855	0.08855	0.001101596	2610	0.002875167	0.126685859	1.216019
145	Kogel Bay	0.05454	0.04565	0.04565	0.000113657	2610	0.000296645	0.065310101	0.472074
146	Kogel Bay	0.07575	0.04764	0.04764	0.00017192	2610	0.000448711	0.068157135	0.655658333
147	Kogel Bay	0.09109	0.04183	0.04183	0.000159385	2610	0.000415994	0.05984494	0.788434556
148	Kogel Bay	0.12653	0.09189	0.09189	0.00106839	2610	0.002788499	0.131464298	1.095187444
149	Kogel Bay	0.1317	0.08917	0.08917	0.001047185	2610	0.002733152	0.127572874	1.139936667
150	Kogel Bay	0.19272	0.10419	0.10419	0.002092083	2610	0.005460336	0.149061543	1.668098667
151	Kogel Bay	0.12553	0.06889	0.06889	0.000595744	2610	0.001554893	0.09855888	1.086531889
152	Kogel Bay	0.12138	0.09732	0.09732	0.001149612	2610	0.003000488	0.139232837	1.050611333
153	Kogel Bay	0.08254	0.06502	0.06502	0.000348946	2610	0.000910749	0.093022185	0.714429556
154	Kogel Bay	0.21715	0.14694	0.14694	0.004688565	2610	0.012237154	0.2102227	1.879553889
155	Kogel Bay	0.16872	0.15573	0.15573	0.004091769	2610	0.010679518	0.222798292	1.460365333
156	Kogel Bay	0.24357	0.13721	0.13721	0.004585591	2610	0.011968393	0.196302277	2.108233667
157	Kogel Bay	0.11511	0.05935	0.05935	0.000405466	2610	0.001058266	0.084910285	0.996341
158	Kogel Bay	0.09331	0.05314	0.05314	0.000263494	2610	0.00068772	0.076025822	0.807649889
159	Kogel Bay	0.37356	0.33137	0.33137	0.041019158	2610	0.107060003	0.47408123	3.233369333
160	Kogel Bay	0.25629	0.1022	0.1022	0.002676908	2610	0.00698673	0.146214509	2.218332333
6)1	Kogel Bay	0.10583	0.0524	0.0524	0.000290584	2610	0.000758424	0.074967126	0.916017444
2	Kogel Bay	0.07433	0.05231	0.05231	0.000203392	2610	0.000530853	0.074838365	0.643367444
3	Kogel Bay	0.05512	0.047	0.047	0.00012176	2610	0.000317794	0.067241506	0.477094222

4 Kogel Bay	0.04936	0.03179	0.03179	4.98834E-05	2610	0.000130196	0.04548101	0.427238222
5 Kogel Bay	0.04974	0.03899	0.03899	7.56157E-05	2610	0.000197357	0.055781837	0.430527333
6 Kogel Bay	0.09391	0.07057	0.07057	0.000467684	2610	0.001220654	0.100962406	0.812843222
7 Kogel Bay	1.08847	0.74633	0.74633	0.606287008	2610	1.582409091	1.067752195	9.421312556
8 Kogel Bay	0.16491	0.12362	0.12362	0.002520139	2610	0.006577562	0.176859467	1.427387667
9 Kogel Bay	0.07481	0.0744	0.0744	0.0004141	2610	0.001080802	0.106441873	0.647522111
10 Kogel Bay	0.10187	0.06676	0.06676	0.000454024	2610	0.001185003	0.095511552	0.881741444
11 Kogel Bay	0.1451	0.12216	0.12216	0.002165337	2610	0.005651529	0.174770689	1.255921111
12 Kogel Bay	0.07215	0.04472	0.04472	0.000144291	2610	0.0003766	0.063979578	0.624498333
13 Kogel Bay	0.14614	0.09354	0.09354	0.001278686	2610	0.00333737	0.133824904	1.264922889
14 Kogel Bay	0.85019	0.39021	0.39021	0.129453198	2610	0.337872846	0.558261873	7.358866778
15 Kogel Bay	0.05775	0.0391	0.0391	8.82888E-05	2610	0.000230434	0.05593921	0.499858333
16 Kogel Bay	0.07128	0.04049	0.04049	0.000116859	2610	0.000305003	0.057927842	0.616968
17 Kogel Bay	0.5066	0.27763	0.27763	0.039047926	2610	0.101915087	0.397197006	4.384904444
18 Kogel Bay	0.15222	0.12449	0.12449	0.002359069	2610	0.00615717	0.178104151	1.317548667
19 Kogel Bay	0.56798	0.34951	0.34951	0.069382869	2610	0.181089289	0.50003359	4.916182444
20 Kogel Bay	0.07527	0.07139	0.07139	0.000383616	2610	0.001001238	0.102135556	0.651503667
21 Kogel Bay	0.06776	0.05215	0.05215	0.000184282	2610	0.000480975	0.074609458	0.586500444
22 Kogel Bay	0.17024	0.11811	0.11811	0.002374843	2610	0.006198341	0.168976474	1.473521778
23 Kogel Bay	0.08181	0.04803	0.04803	0.000188726	2610	0.000492575	0.068715096	0.708111
24 Kogel Bay	0.11525	0.11333	0.11333	0.001480235	2610	0.003863414	0.16213787	0.997552778
25 Kogel Bay	0.1267	0.11783	0.11783	0.001759091	2610	0.004591228	0.168575886	1.096658889
26 Kogel Bay	0.22674	0.18021	0.18021	0.007363528	2610	0.019218807	0.257821102	1.962560667
27 Kogel Bay	0.07478	0.04281	0.04281	0.000137049	2610	0.000357698	0.061246997	0.647262444
28 Kogel Bay	0.05605	0.03595	0.03595	7.24392E-05	2610	0.000189066	0.051432599	0.485143889
29 Kogel Bay	0.11743	0.03589	0.03589	0.000151261	2610	0.00039479	0.051346758	1.016421889
30 Kogel Bay	0.1881	0.12616	0.12616	0.002993865	2610	0.007813987	0.18049337	1.62811
31 Kogel Bay	0.05667	0.04138	0.04138	9.70363E-05	2610	0.000253265	0.059201139	0.490510333
32 Kogel Bay	0.34925	0.25707	0.25707	0.023080181	2610	0.060239272	0.367782424	3.022952778
33 Kogel Bay	0.04483	0.01333	0.01333	7.96579E-06	2610	2.07907E-05	0.019070836	0.388028556
34 Kogel Bay	0.06473	0.04099	0.04099	0.000108758	2610	0.000283859	0.058643177	0.560274111
35 Kogel Bay	0.08822	0.03886	0.03886	0.000133221	2610	0.000347707	0.055595849	0.763593111
36 Kogel Bay	0.04923	0.04565	0.04565	0.000102592	2610	0.000267764	0.065310101	0.426113
37 Kogel Bay	0.07229	0.04376	0.04376	0.000138431	2610	0.000361304	0.062606134	0.625710111
38 Kogel Bay	0.06359	0.05111	0.05111	0.000166112	2610	0.000433552	0.073121561	0.550406778
39 Kogel Bay	0.10705	0.08829	0.08829	0.000834468	2610	0.002177962	0.126313884	0.926577222
40 Kogel Bay	0.07309	0.04301	0.04301	0.000135206	2610	0.000352888	0.061533131	0.632634556
41 Kogel Bay	0.29812	0.264	0.264	0.020777772	2610	0.054229984	0.37769697	2.580394222
42 Kogel Bay	0.06806	0.0372	0.0372	9.41842E-05	2610	0.000245821	0.053220937	0.589097111
43 Kogel Bay	0.04691	0.02575	0.02575	3.11043E-05	2610	8.11821E-05	0.036839761	0.406032111
44 Kogel Bay	0.10215	0.04381	0.04381	0.000196058	2610	0.000511712	0.062677668	0.884165
45 Kogel Bay	0.03232	0.01796	0.01796	1.04252E-05	2610	2.72097E-05	0.025694839	0.279747556
46 Kogel Bay	0.06986	0.0439	0.0439	0.000134635	2610	0.000351397	0.062806428	0.604677111
47 Kogel Bay	0.10218	0.04864	0.04864	0.000241743	2610	0.000630948	0.069587805	0.884424667
48 Kogel Bay	0.08991	0.04343	0.04343	0.000169585	2610	0.000442617	0.062134013	0.778221
49 Kogel Bay	0.14484	0.06621	0.06621	0.000634944	2610	0.001657205	0.094724683	1.253670667
50 Kogel Bay	0.03818	0.01523	0.01523	8.85596E-06	2610	2.31141E-05	0.021789109	0.330469111
51 Kogel Bay	0.06288	0.06054	0.06054	0.000230461	2610	0.000601503	0.086612782	0.544261333
52 Kogel Bay	0.09865	0.08161	0.08161	0.000657028	2610	0.001714843	0.116757006	0.853870556
53 Kogel Bay	0.16146	0.08642	0.08642	0.001205851	2610	0.00314727	0.123638531	1.397526
54 Kogel Bay	0.05601	0.03669	0.03669	7.53982E-05	2610	0.000196789	0.052491295	0.484797667
55 Kogel Bay	0.21059	0.12737	0.12737	0.003416426	2610	0.008916872	0.182224481	1.822773444

56 Kogel Bay	0.1821	0.16359	0.16359	0.004873303	2610	0.012719322	0.234043361	1.576176667
57 Kogel Bay	0.06266	0.03681	0.03681	8.49028E-05	2610	0.000221596	0.052662975	0.542357111
58 Kogel Bay	0.10856	0.06328	0.06328	0.000434713	2610	0.001134601	0.090532819	0.939647111
59 Kogel Bay	0.11541	0.0679	0.0679	0.000532087	2610	0.001388748	0.097142516	0.998937667
60 Kogel Bay	0.09263	0.04471	0.04471	0.000185166	2610	0.000483283	0.063965271	0.801764111
61 Kogel Bay	0.04968	0.04144	0.04144	8.53142E-05	2610	0.00022267	0.059286979	0.430008
62 Kogel Bay	0.45314	0.32805	0.32805	0.048765478	2610	0.127277897	0.469331405	3.922178444
63 Kogel Bay	0.04612	0.03396	0.03396	5.31893E-05	2610	0.000138824	0.048585565	0.399194222
64 Kogel Bay	0.06185	0.03314	0.03314	6.79274E-05	2610	0.00017729	0.047412415	0.535346111
65 Kogel Bay	0.04834	0.03589	0.03589	6.22664E-05	2610	0.000162515	0.051346758	0.418409556
66 Kogel Bay	0.05097	0.04443	0.04443	0.000100616	2610	0.000262608	0.063564683	0.441173667
67 Kogel Bay	0.05264	0.01525	0.01525	1.22421E-05	2610	3.19519E-05	0.021817723	0.455628444
68 Kogel Bay	0.07449	0.04562	0.04562	0.000155027	2610	0.000404622	0.065267181	0.644752333
69 Kogel Bay	0.06845	0.05977	0.05977	0.000244534	2610	0.000638235	0.085511166	0.592472778
70 Kogel Bay	0.04634	0.04179	0.04179	8.09284E-05	2610	0.000211223	0.059787713	0.401098444
71 Kogel Bay	0.10189	0.06541	0.06541	0.000435933	2610	0.001137785	0.093580147	0.881914556
72 Kogel Bay	0.06158	0.02689	0.02689	4.45268E-05	2610	0.000116215	0.038470725	0.533009111
73 Kogel Bay	0.0499	0.03115	0.03115	4.84191E-05	2610	0.000126374	0.044565381	0.431912222
74 Kogel Bay	0.07244	0.03392	0.03392	8.3347E-05	2610	0.000217536	0.048528338	0.627008444
75 Kogel Bay	0.11944	0.08833	0.08833	0.000931893	2610	0.002432242	0.126371111	1.033819556
76 Kogel Bay	0.17074	0.09767	0.09767	0.001628762	2610	0.004251069	0.139733572	1.477849556
77 Kogel Bay	0.09247	0.07775	0.07775	0.000558987	2610	0.001458956	0.111234619	0.800379222
78 Kogel Bay	0.08541	0.07272	0.07272	0.000451665	2610	0.001178846	0.104038347	0.739271
79 Kogel Bay	0.08172	0.07514	0.07514	0.000461393	2610	0.001204235	0.107500569	0.707332
80 Kogel Bay	0.06048	0.01783	0.01783	1.92271E-05	2610	5.01828E-05	0.025508852	0.523488
81 Kogel Bay	0.08199	0.0536	0.0536	0.000235554	2610	0.000614796	0.07668393	0.709669
82 Kogel Bay	0.08142	0.06878	0.06878	0.000385173	2610	0.001005301	0.098401506	0.704735333
83 Kogel Bay	0.10501	0.03696	0.03696	0.000143448	2610	0.000374399	0.052877576	0.908919889
84 Kogel Bay	0.1007	0.07089	0.07089	0.000506057	2610	0.001320809	0.10142022	0.871614444
85 Kogel Bay	0.04975	0.04245	0.04245	8.96496E-05	2610	0.000233986	0.060731956	0.430613889
86 Kogel Bay	0.08017	0.04048	0.04048	0.000131369	2610	0.000342873	0.057913535	0.693915889
87 Kogel Bay	0.05871	0.02556	0.02556	3.8356E-05	2610	0.000100109	0.036567934	0.508167667
88 Kogel Bay	0.10785	0.05061	0.05061	0.000276244	2610	0.000720997	0.072406226	0.933501667
89 Kogel Bay	0.17003	0.08695	0.08695	0.001285478	2610	0.003355098	0.124396786	1.471704111
90 Kogel Bay	0.06508	0.0519	0.0519	0.0001753	2610	0.000457533	0.074251791	0.563303556
91 Kogel Bay	0.09551	0.07276	0.07276	0.000505632	2610	0.001319699	0.104095574	0.826692111
92 Kogel Bay	0.07431	0.04413	0.04413	0.000144716	2610	0.000377708	0.063135482	0.643194333
93 Kogel Bay	0.04458	0.03032	0.03032	4.09825E-05	2610	0.000106964	0.043377925	0.385864667
94 Kogel Bay	0.06127	0.04122	0.04122	0.000104103	2610	0.000271709	0.058972231	0.530325889
95 Kogel Bay	0.24105	0.23827	0.23827	0.013685034	2610	0.035717937	0.340885822	2.086421667
96 Kogel Bay	0.05789	0.05573	0.05573	0.000179797	2610	0.000469269	0.079731258	0.501070111
97 Kogel Bay	0.06109	0.05349	0.05349	0.000174789	2610	0.000456201	0.076526556	0.528767889
98 Kogel Bay	0.07174	0.0485	0.0485	0.00016875	2610	0.000440439	0.069387511	0.620949556
99 Kogel Bay	0.15259	0.1381	0.1381	0.002910137	2610	0.007595457	0.197575574	1.320751222
100 Kogel Bay	0.21047	0.07051	0.07051	0.001046385	2610	0.002731066	0.100876566	1.821734778
101 Kogel Bay	0.07553	0.04417	0.04417	0.000147358	2610	0.000384605	0.063192709	0.653754111
102 Kogel Bay	0.07489	0.02936	0.02936	6.45559E-05	2610	0.000168491	0.042004481	0.648214556
103 Kogel Bay	0.09593	0.08796	0.08796	0.000742207	2610	0.00193716	0.125841763	0.830327444
104 Kogel Bay	0.08821	0.05046	0.05046	0.000224601	2610	0.000586209	0.072191625	0.763506556
105 Kogel Bay	0.08432	0.03874	0.03874	0.000126546	2610	0.000330286	0.055424169	0.729836444
106 Kogel Bay	0.70277	0.46788	0.46788	0.153844571	2610	0.401534332	0.669382039	6.082864778
107 Kogel Bay	0.21539	0.19243	0.19243	0.007975742	2610	0.020816687	0.275303893	1.864320111

108	Kogel Bay	0.09481	0.08657	0.08657	0.000710541	2610	0.001854511	0.123853131	0.820633222
109	Kogel Bay	0.11292	0.07015	0.07015	0.000555682	2610	0.00145033	0.100361524	0.977385333
110	Kogel Bay	0.12793	0.05214	0.05214	0.000347788	2610	0.000907726	0.074595152	1.107305222
111	Kogel Bay	0.45099	0.24652	0.24652	0.027407614	2610	0.071533873	0.352688852	3.903569
112	Kogel Bay	0.14779	0.04924	0.04924	0.000358328	2610	0.000935237	0.070446208	1.279204556
113	Kogel Bay	0.23991	0.10646	0.10646	0.002719076	2610	0.007096787	0.152309164	2.076554333
114	Kogel Bay	0.17453	0.1574	0.1574	0.004323939	2610	0.01128548	0.225187511	1.510654111
115	Kogel Bay	0.28365	0.20086	0.20086	0.011443785	2610	0.02986828	0.287364444	2.455148333
116	Kogel Bay	0.49064	0.28095	0.28095	0.038727639	2610	0.101079139	0.401946832	4.246761778
117	Kogel Bay	0.19076	0.12951	0.12951	0.003199587	2610	0.008350922	0.185286116	1.651133778
118	Kogel Bay	0.11632	0.09577	0.09577	0.001066875	2610	0.002784543	0.137015298	1.006814222
119	Kogel Bay	0.07979	0.07257	0.07257	0.000420206	2610	0.001096739	0.103823747	0.690626778
120	Kogel Bay	0.1944	0.07443	0.07443	0.001076942	2610	0.002810819	0.106484793	1.68264
121	Kogel Bay	0.13788	0.06745	0.06745	0.000627285	2610	0.001637215	0.096498714	1.193428
122	Kogel Bay	0.14453	0.08629	0.08629	0.001076165	2610	0.002808791	0.123452544	1.250987444
123	Kogel Bay	0.11603	0.08923	0.08923	0.00092383	2610	0.002411196	0.127658714	1.004304111
124	Kogel Bay	0.11946	0.09553	0.09553	0.00109019	2610	0.002845395	0.136671938	1.033992667
125	Kogel Bay	0.1656	0.08525	0.08525	0.001203508	2610	0.003141157	0.121964646	1.43336
126	Kogel Bay	0.29858	0.13088	0.13088	0.005114548	2610	0.013348971	0.187246134	2.584375778
127	Kogel Bay	0.09369	0.05612	0.05612	0.000295072	2610	0.000770139	0.080289219	0.810939
128	Kogel Bay	0.31643	0.11362	0.11362	0.004084954	2610	0.010661731	0.162552764	2.738877444
129	Kogel Bay	0.61006	0.5261	0.5261	0.168853145	2610	0.440706708	0.752675666	5.280408222
130	Kogel Bay	0.07034	0.05204	0.05204	0.000190492	2610	0.000497184	0.074452084	0.608831778
131	Kogel Bay	0.28802	0.12529	0.12529	0.004521218	2610	0.011800379	0.179248687	2.492973111
132	Kogel Bay	0.12111	0.05339	0.05339	0.000345223	2610	0.000901032	0.076383489	1.048274333
133	Kogel Bay	0.09694	0.07553	0.07553	0.000553021	2610	0.001443386	0.108058531	0.839069556
134	Kogel Bay	0.10149	0.05296	0.05296	0.000284655	2610	0.00074295	0.075768301	0.878452333
135	Kogel Bay	0.23134	0.11699	0.11699	0.003166272	2610	0.00826397	0.167374123	2.002376222
136	Kogel Bay	0.17173	0.12142	0.12142	0.002531784	2610	0.006607956	0.173711993	1.486418556
137	Kogel Bay	0.28713	0.26703	0.26703	0.020473811	2610	0.053436646	0.382031901	2.485269667
138	Kogel Bay	0.09104	0.07747	0.07747	0.000546386	2610	0.001426067	0.110834031	0.788001778
139	Kogel Bay	0.08811	0.06915	0.06915	0.000421318	2610	0.001099639	0.098930854	0.762641
140	Kogel Bay	0.23369	0.11413	0.11413	0.003043966	2610	0.007944751	0.163282406	2.022716778
141	Kogel Bay	0.11328	0.07446	0.07446	0.000628057	2610	0.00163923	0.106527713	0.980501333
142	Kogel Bay	0.09869	0.0934	0.0934	0.000860928	2610	0.002247022	0.13362461	0.854216778
143	Kogel Bay	0.1413	0.04796	0.04796	0.000325013	2610	0.000848283	0.068614949	1.22303
144	Kogel Bay	0.1312	0.12885	0.12885	0.002178225	2610	0.005685166	0.184341873	1.135608889
145	Kogel Bay	0.22724	0.08321	0.08321	0.001573388	2610	0.004106543	0.119046079	1.966888444
146	Kogel Bay	0.43677	0.15255	0.15255	0.010164294	2610	0.026528808	0.21824876	3.780487
147	Kogel Bay	0.28662	0.15839	0.15839	0.007190548	2610	0.018767331	0.226603875	2.480855333
148	Kogel Bay	0.16878	0.13926	0.13926	0.003273209	2610	0.008543076	0.199235152	1.460884667
149	Kogel Bay	0.34017	0.19492	0.19492	0.012924353	2610	0.033732562	0.278866263	2.944360333
150	Kogel Bay	0.25922	0.09163	0.09163	0.002176426	2610	0.005680472	0.131092323	2.243693111
151	Kogel Bay	0.48333	0.27026	0.27026	0.035302649	2610	0.092139914	0.386652966	4.183489667
152	Kogel Bay	0.50236	0.34357	0.34357	0.059298748	2610	0.154769731	0.491535409	4.348204889
153	Kogel Bay	0.07705	0.07567	0.07567	0.000441184	2610	0.001151491	0.108258825	0.666910556
154	Kogel Bay	0.16521	0.09572	0.09572	0.001513707	2610	0.003950774	0.136943765	1.429984333
155	Kogel Bay	0.11633	0.08102	0.08102	0.000763618	2610	0.001993043	0.115912911	1.006900778
156	Kogel Bay	0.14955	0.07506	0.07506	0.000842565	2610	0.002199095	0.107386116	1.294438333
157	Kogel Bay	0.12061	0.02847	0.02847	9.77593E-05	2610	0.000255152	0.040731185	1.043946556
158	Kogel Bay	0.25742	0.1303	0.1303	0.0043705	2610	0.011407005	0.186416345	2.228113111
159	Kogel Bay	0.10741	0.05733	0.05733	0.000353028	2610	0.000921402	0.082020331	0.929693222

160	Kogel Bay	0.22537	0.21595	0.21595	0.010509995	2610	0.027431088	0.30895326	1.950702556
161	Kogel Bay	0.23424	0.17654	0.17654	0.007300411	2610	0.019054072	0.252570542	2.027477333
162	Kogel Bay	0.28308	0.21771	0.21771	0.013417325	2610	0.035019218	0.31147124	2.450214667
163	Kogel Bay	0.14399	0.05952	0.05952	0.000510103	2610	0.00133137	0.085153499	1.246313444
164	Kogel Bay	0.16772	0.07565	0.07565	0.000959849	2610	0.002505205	0.108230211	1.451709778
165	Kogel Bay	0.15731	0.09144	0.09144	0.001315312	2610	0.003432964	0.130820496	1.361605444
166	Kogel Bay	0.15769	0.11554	0.11554	0.002105081	2610	0.005494262	0.165299651	1.364894556
7)1	Kogel Bay	0.2761	0.2075	0.2075	0.011887831	2610	0.031027238	0.296864096	2.389798889
2	Kogel Bay	0.2108	0.1806	0.1806	0.006875529	2610	0.01794513	0.258379063	1.824591111
3	Kogel Bay	0.1402	0.1163	0.1163	0.001896302	2610	0.004949348	0.166386961	1.213508889
4	Kogel Bay	0.2348	0.1473	0.1473	0.005094524	2610	0.013296707	0.210737741	2.032324444
5	Kogel Bay	0.2761	0.1574	0.1574	0.006840311	2610	0.017853212	0.225187511	2.389798889
6	Kogel Bay	0.1363	0.1125	0.1125	0.001725047	2610	0.004502372	0.160950413	1.179752222
7	Kogel Bay	0.2216	0.1607	0.1607	0.005722707	2610	0.014936265	0.229908724	1.918071111
8	Kogel Bay	0.5538	0.3148	0.3148	0.054881048	2610	0.143239536	0.450375023	4.793446667
9	Kogel Bay	0.2363	0.1519	0.1519	0.005452294	2610	0.014230487	0.217318825	2.045307778
10	Kogel Bay	0.2938	0.2642	0.2642	0.020507722	2610	0.053525154	0.377983104	2.543002222
11	Kogel Bay	0.2017	0.0979	0.0979	0.001933175	2610	0.005045588	0.140062626	1.745825556
12	Kogel Bay	0.2433	0.0584	0.0584	0.000829789	2610	0.00216575	0.083551148	2.105896667
13	Kogel Bay	0.2446	0.1292	0.1292	0.00408302	2610	0.010656682	0.184842608	2.117148889
14	Kogel Bay	0.2986	0.2146	0.2146	0.013751474	2610	0.035891346	0.307021855	2.584548889
15	Kogel Bay	0.185	0.0902	0.0902	0.001505167	2610	0.003928487	0.129046465	1.601277778
16	Kogel Bay	0.2259	0.096	0.096	0.002081894	2610	0.005433744	0.137344353	1.95529
17	Kogel Bay	0.1938	0.0607	0.0607	0.000714054	2610	0.001863681	0.08684169	1.677446667
18	Kogel Bay	0.1163	0.0739	0.0739	0.000635139	2610	0.001657712	0.105726538	1.006641111
19	Kogel Bay	0.1096	0.0822	0.0822	0.00074055	2610	0.001932835	0.117601102	0.948648889
20	Kogel Bay	0.0972	0.0609	0.0609	0.000360496	2610	0.000940895	0.087127824	0.84132
21	Kogel Bay	0.2009	0.1218	0.1218	0.0029804	2610	0.007778843	0.174255647	1.738901111
22	Kogel Bay	0.1488	0.09	0.09	0.00120528	2610	0.003145781	0.128760331	1.287946667
23	Kogel Bay	0.1233	0.1116	0.1116	0.001535647	2610	0.004008039	0.15966281	1.06723
24	Kogel Bay	0.1492	0.0998	0.0998	0.001486038	2610	0.003878559	0.1427809	1.291408889
25	Kogel Bay	0.137	0.0705	0.0705	0.000680924	2610	0.001777212	0.100862259	1.185811111
26	Kogel Bay	0.104	0.0556	0.0556	0.000321501	2610	0.000839119	0.079545271	0.900177778
27	Kogel Bay	0.112	0.1015	0.1015	0.001153852	2610	0.003011554	0.145213039	0.969422222
28	Kogel Bay	0.1801	0.0646	0.0646	0.000751586	2610	0.00196164	0.092421304	1.558865556
29	Kogel Bay	0.1332	0.0646	0.0646	0.000555865	2610	0.001450807	0.092421304	1.15292
30	Kogel Bay	0.1326	0.076	0.076	0.000765898	2610	0.001998993	0.108730946	1.147726667
31	Kogel Bay	0.128	0.0816	0.0816	0.000852296	2610	0.002224492	0.1167427	1.107911111
32	Kogel Bay	0.1229	0.1003	0.1003	0.001236385	2610	0.003226965	0.143496235	1.063767778
33	Kogel Bay	0.1124	0.0642	0.0642	0.000463272	2610	0.001209141	0.091849036	0.972884444
34	Kogel Bay	0.2076	0.1272	0.1272	0.003358935	2610	0.00876682	0.181981267	1.796893333
35	Kogel Bay	0.0757	0.0464	0.0464	0.000162979	2610	0.000425375	0.066383104	0.655225556
36	Kogel Bay	0.2163	0.0986	0.0986	0.00210286	2610	0.005488464	0.141064096	1.872196667
37	Kogel Bay	0.0484	0.041	0.041	8.13604E-05	2610	0.000212351	0.058657484	0.418928889
38	Kogel Bay	0.0653	0.0529	0.0529	0.000182736	2610	0.000476941	0.075682461	0.565207778
39	Kogel Bay	0.0768	0.054	0.054	0.000223949	2610	0.000584506	0.077256198	0.664746667
40	Kogel Bay	0.0894	0.0289	0.0289	7.46678E-05	2610	0.000194883	0.041346373	0.773806667
41	Kogel Bay	0.1453	0.1023	0.1023	0.001520607	2610	0.003968783	0.146357576	1.257652222
42	Kogel Bay	0.0886	0.0705	0.0705	0.000440364	2610	0.00114935	0.100862259	0.766882222
43	Kogel Bay	0.0945	0.0601	0.0601	0.000341335	2610	0.000890884	0.085983287	0.81795
44	Kogel Bay	0.0609	0.0514	0.0514	0.000160895	2610	0.000419937	0.073536455	0.527123333
45	Kogel Bay	0.0812	0.0737	0.0737	0.000441053	2610	0.001151149	0.105440404	0.702831111

46 Kogel Bay	0.0849	0.0506	0.0506	0.000217375	2610	0.000567348	0.072391919	0.734856667
47 Kogel Bay	0.0652	0.052	0.052	0.000176301	2610	0.000460145	0.074394858	0.564342222
48 Kogel Bay	0.1047	0.1031	0.1031	0.00111292	2610	0.002904722	0.147502112	0.906236667
49 Kogel Bay	0.0886	0.0321	0.0321	9.12943E-05	2610	0.000238278	0.045924518	0.766882222
50 Kogel Bay	0.0662	0.047	0.047	0.000146236	2610	0.000381675	0.067241506	0.572997778
51 Kogel Bay	0.1637	0.1239	0.1239	0.002512993	2610	0.006558912	0.177260055	1.416914444
52 Kogel Bay	0.1398	0.0892	0.0892	0.001112338	2610	0.002903203	0.127615794	1.210046667
53 Kogel Bay	0.2331	0.1817	0.1817	0.007695771	2610	0.020085962	0.259952801	2.01761
54 Kogel Bay	0.185	0.1746	0.1746	0.005639755	2610	0.01471976	0.249795041	1.601277778
55 Kogel Bay	0.0958	0.0891	0.0891	0.000760538	2610	0.001985004	0.127472727	0.829202222
56 Kogel Bay	0.1262	0.1043	0.1043	0.001372865	2610	0.003583179	0.149218916	1.092331111
57 Kogel Bay	0.1541	0.1145	0.1145	0.00202029	2610	0.005272956	0.163811754	1.333821111
58 Kogel Bay	0.167	0.0876	0.0876	0.001281518	2610	0.003344762	0.125326722	1.445477778
59 Kogel Bay	0.1475	0.1324	0.1324	0.00258564	2610	0.006748519	0.189420753	1.276694444
60 Kogel Bay	0.0823	0.0532	0.0532	0.000232929	2610	0.000607944	0.076111662	0.712352222
61 Kogel Bay	0.1242	0.099	0.099	0.001217284	2610	0.003177112	0.141636364	1.07502
62 Kogel Bay	0.1308	0.0928	0.0928	0.001126429	2610	0.002939979	0.132766208	1.132146667
63 Kogel Bay	0.1145	0.068	0.068	0.000529448	2610	0.001381859	0.097285583	0.991061111
64 Kogel Bay	0.113	0.0619	0.0619	0.000432972	2610	0.001130057	0.088558494	0.978077778
65 Kogel Bay	0.1422	0.08	0.08	0.00091008	2610	0.002375309	0.114453627	1.23082
66 Kogel Bay	0.0867	0.0478	0.0478	0.000198096	2610	0.00051703	0.068386042	0.750436667
67 Kogel Bay	0.1138	0.0632	0.0632	0.000454545	2610	0.001186361	0.090418365	0.985002222
68 Kogel Bay	0.1235	0.0756	0.0756	0.000705847	2610	0.001842261	0.108158678	1.068961111
69 Kogel Bay	0.5967	0.5415	0.5415	0.174965717	2610	0.45666052	0.774707989	5.16477
70 Kogel Bay	0.4623	0.3603	0.3603	0.060013978	2610	0.156636484	0.515470523	4.001463333
71 Kogel Bay	0.2076	0.1344	0.1344	0.003749954	2610	0.009787379	0.192282094	1.796893333
72 Kogel Bay	0.1134	0.0785	0.0785	0.000698799	2610	0.001823866	0.112307622	0.98154
73 Kogel Bay	0.0907	0.0891	0.0891	0.00072005	2610	0.001879331	0.127472727	0.785058889
74 Kogel Bay	0.9054	0.7522	0.7522	0.512279702	2610	1.337050023	1.07615023	7.83674
75 Kogel Bay	0.5247	0.3518	0.3518	0.064938572	2610	0.169489673	0.503309826	4.54157
76 Kogel Bay	0.185	0.105	0.105	0.002039625	2610	0.005323421	0.150220386	1.601277778
77 Kogel Bay	0.2101	0.1192	0.1192	0.002985235	2610	0.007791464	0.170535904	1.818532222
78 Kogel Bay	0.1101	0.0991	0.0991	0.001081271	2610	0.002822118	0.141779431	0.952976667
79 Kogel Bay	0.081	0.0416	0.0416	0.000140175	2610	0.000365858	0.059515886	0.7011
80 Kogel Bay	0.1612	0.0557	0.0557	0.000500121	2610	0.001305317	0.079688338	1.395275556
81 Kogel Bay	0.1159	0.0552	0.0552	0.000353152	2610	0.000921727	0.078973003	1.003178889
82 Kogel Bay	0.1749	0.1239	0.1239	0.002684927	2610	0.007007659	0.177260055	1.513856667
83 Kogel Bay	0.0594	0.0406	0.0406	9.79126E-05	2610	0.000255552	0.058085216	0.51414
84 Kogel Bay	0.0738	0.0541	0.0541	0.000215999	2610	0.000563756	0.077399265	0.63878
85 Kogel Bay	0.0987	0.0593	0.0593	0.000347078	2610	0.000905872	0.084838751	0.854303333
86 Kogel Bay	0.1093	0.0758	0.0758	0.000627998	2610	0.001639076	0.108444812	0.946052222
87 Kogel Bay	0.0816	0.0661	0.0661	0.000356528	2610	0.000930537	0.094567309	0.706293333
88 Kogel Bay	0.0825	0.063	0.063	0.000327443	2610	0.000854625	0.090132231	0.714083333
89 Kogel Bay	0.0812	0.067	0.067	0.000364507	2610	0.000951363	0.095854913	0.702831111
90 Kogel Bay	0.0759	0.046	0.046	0.000160604	2610	0.000419177	0.065810836	0.656956667
91 Kogel Bay	0.0781	0.07	0.07	0.00038269	2610	0.000998821	0.100146924	0.675998889
92 Kogel Bay	0.061	0.0528	0.0528	0.000170058	2610	0.000443852	0.075539394	0.527988889
93 Kogel Bay	0.0932	0.0608	0.0608	0.000344527	2610	0.000899215	0.086984757	0.806697778
94 Kogel Bay	0.1085	0.0874	0.0874	0.000828805	2610	0.002163182	0.125040588	0.939127778
95 Kogel Bay	0.1408	0.0546	0.0546	0.000419747	2610	0.001095541	0.078114601	1.218702222
96 Kogel Bay	0.1608	0.0949	0.0949	0.001448166	2610	0.003779714	0.135770615	1.391813333
97 Kogel Bay	0.0974	0.0721	0.0721	0.000506325	2610	0.001321509	0.103151331	0.843051111

98 Kogel Bay	0.1315	0.0478	0.0478	0.000300456	2610	0.000784191	0.068386042	1.138205556
99 Kogel Bay	0.1292	0.1273	0.1273	0.002093723	2610	0.005464618	0.182124334	1.118297778
100 Kogel Bay	0.2022	0.1881	0.1881	0.007154162	2610	0.018672362	0.269109091	1.750153333
101 Kogel Bay	0.0881	0.0595	0.0595	0.000311896	2610	0.000814049	0.085124885	0.762554444
102 Kogel Bay	0.1985	0.1586	0.1586	0.004993061	2610	0.013031889	0.226904316	1.718127778
103 Kogel Bay	0.0937	0.0788	0.0788	0.000581825	2610	0.001518562	0.112736823	0.811025556
104 Kogel Bay	0.15	0.1494	0.1494	0.003348054	2610	0.008738421	0.213742149	1.298333333
105 Kogel Bay	0.1148	0.0698	0.0698	0.00055931	2610	0.0014598	0.09986079	0.993657778
106 Kogel Bay	0.208	0.093	0.093	0.001798992	2610	0.004695369	0.133052342	1.800355556
107 Kogel Bay	0.2306	0.1504	0.1504	0.005216209	2610	0.013614305	0.215172819	1.995971111
108 Kogel Bay	0.1299	0.0646	0.0646	0.000542093	2610	0.001414864	0.092421304	1.124356667
109 Kogel Bay	0.1158	0.0814	0.0814	0.000767286	2610	0.002002617	0.116456566	1.002313333
110 Kogel Bay	0.1154	0.095	0.095	0.001041485	2610	0.002718276	0.135913682	0.998851111
111 Kogel Bay	0.1198	0.0795	0.0795	0.000757166	2610	0.001976203	0.113738292	1.036935556
112 Kogel Bay	0.1376	0.0491	0.0491	0.000331727	2610	0.000865809	0.070245914	1.191004444
113 Kogel Bay	0.2167	0.1548	0.1548	0.005192791	2610	0.013553184	0.221467769	1.875658889
114 Kogel Bay	0.2095	0.1468	0.1468	0.004514775	2610	0.011783563	0.210022406	1.813338889
115 Kogel Bay	0.3375	0.2127	0.2127	0.015268935	2610	0.039851921	0.304303581	2.92125
116 Kogel Bay	0.0972	0.0875	0.0875	0.000744188	2610	0.001942329	0.125183655	0.84132
117 Kogel Bay	0.1253	0.0732	0.0732	0.000671387	2610	0.001752321	0.104725069	1.084541111
118 Kogel Bay	0.1836	0.1584	0.1584	0.004606627	2610	0.012023296	0.226618182	1.58916
119 Kogel Bay	0.1947	0.1519	0.1519	0.004492432	2610	0.011725247	0.217318825	1.685236667
120 Kogel Bay	0.1138	0.0836	0.0836	0.000795344	2610	0.002075847	0.11960404	0.985002222
121 Kogel Bay	0.1912	0.1249	0.1249	0.002982722	2610	0.007784904	0.178690725	1.654942222
122 Kogel Bay	0.1166	0.0612	0.0612	0.000436718	2610	0.001139835	0.087557025	1.009237778
123 Kogel Bay	0.3018	0.2548	0.2548	0.019593773	2610	0.051139749	0.364534803	2.612246667
124 Kogel Bay	0.1198	0.0946	0.0946	0.001072109	2610	0.002798205	0.135341414	1.036935556
125 Kogel Bay	0.2068	0.1744	0.1744	0.006289896	2610	0.01641663	0.249508907	1.789968889
126 Kogel Bay	0.6937	0.5714	0.5714	0.226491635	2610	0.591143167	0.817485032	6.004358889
127 Kogel Bay	0.0908	0.0544	0.0544	0.00026871	2610	0.000701333	0.077828466	0.785924444
128 Kogel Bay	0.1345	0.0782	0.0782	0.0008225	2610	0.002146724	0.111878421	1.164172222
129 Kogel Bay	0.1428	0.0951	0.0951	0.001291485	2610	0.003370775	0.136056749	1.236013333
130 Kogel Bay	0.1157	0.0436	0.0436	0.000219941	2610	0.000574046	0.062377227	1.001447778
131 Kogel Bay	0.0799	0.0447	0.0447	0.000159647	2610	0.00041668	0.063950964	0.691578889
132 Kogel Bay	0.1049	0.0655	0.0655	0.000450047	2610	0.001174623	0.093708907	0.907967778
133 Kogel Bay	0.1115	0.1073	0.1073	0.001283732	2610	0.00335054	0.153510927	0.965094444
134 Kogel Bay	0.1017	0.0434	0.0434	0.000191558	2610	0.000499967	0.062091093	0.88027
135 Kogel Bay	0.1179	0.1116	0.1116	0.001468393	2610	0.003832505	0.15966281	1.02049
136 Kogel Bay	0.2317	0.1337	0.1337	0.004141797	2610	0.010810091	0.191280624	2.005492222
137 Kogel Bay	0.103	0.0856	0.0856	0.000754718	2610	0.001969814	0.122465381	0.891522222
138 Kogel Bay	0.121	0.0719	0.0719	0.000625523	2610	0.001632615	0.102865197	1.047322222
139 Kogel Bay	0.0776	0.0475	0.0475	0.000175085	2610	0.000456972	0.067956841	0.671671111
140 Kogel Bay	0.1503	0.0913	0.0913	0.001252854	2610	0.003269949	0.130620202	1.30093
141 Kogel Bay	0.1125	0.0769	0.0769	0.000665281	2610	0.001736384	0.110018549	0.97375
142 Kogel Bay	0.2437	0.1762	0.1762	0.007566017	2610	0.019747305	0.252084114	2.109358889
143 Kogel Bay	0.2307	0.221	0.221	0.011267619	2610	0.029408485	0.316178145	1.996836667
144 Kogel Bay	0.2165	0.1734	0.1734	0.006509627	2610	0.016990126	0.248078237	1.873927778
145 Kogel Bay	0.3087	0.1688	0.1688	0.008795925	2610	0.022957364	0.241497153	2.67197
146 Kogel Bay	0.1203	0.0571	0.0571	0.000392227	2610	0.001023713	0.081691276	1.041263333
147 Kogel Bay	0.0835	0.0528	0.0528	0.000232785	2610	0.000607568	0.075539394	0.722738889
148 Kogel Bay	0.1087	0.0938	0.0938	0.00095639	2610	0.002496179	0.134196878	0.940858889
149 Kogel Bay	0.1585	0.1248	0.1248	0.002468644	2610	0.00644316	0.178547658	1.371905556

150 Kogel Bay	0.1981	0.1718	0.1718	0.005846969	2610	0.015260589	0.245789164	1.714665556
151 Kogel Bay	0.1777	0.1235	0.1235	0.002710325	2610	0.007073948	0.176687787	1.538092222
152 Kogel Bay	2.9102	1.3926	1.3926	5.643852019	2610	14.73045377	1.992351515	25.18939778
153 Kogel Bay	0.3803	0.2873	0.2873	0.031390453	2610	0.081929081	0.411031589	3.291707778
154 Kogel Bay	0.153	0.1022	0.1022	0.001598061	2610	0.004170938	0.146214509	1.3243
155 Kogel Bay	0.237	0.1987	0.1987	0.009357161	2610	0.024422189	0.284274197	2.051366667
156 Kogel Bay	0.1501	0.125	0.125	0.002345313	2610	0.006121266	0.178833792	1.299198889
157 Kogel Bay	0.1166	0.1098	0.1098	0.001405734	2610	0.003668966	0.157087603	1.009237778
158 Kogel Bay	0.2454	0.2143	0.2143	0.01126987	2610	0.02941436	0.306592654	2.124073333
159 Kogel Bay	0.4847	0.2137	0.2137	0.022135129	2610	0.057772688	0.305734252	4.195347778
160 Kogel Bay	0.2652	0.1933	0.1933	0.009909169	2610	0.025862931	0.276548577	2.295453333
161 Kogel Bay	0.1486	0.1216	0.1216	0.002197283	2610	0.005734908	0.173969513	1.286215556
162 Kogel Bay	0.3146	0.1045	0.1045	0.003435511	2610	0.008966683	0.149505051	2.723037778
163 Kogel Bay	0.1035	0.0906	0.0906	0.000849565	2610	0.002217365	0.129618733	0.89585
164 Kogel Bay	0.1039	0.0745	0.0745	0.000576671	2610	0.001505111	0.10658494	0.899312222
165 Kogel Bay	0.1353	0.0635	0.0635	0.000545563	2610	0.001423921	0.090847567	1.171096667
166 Kogel Bay	0.2514	0.1116	0.1116	0.003131076	2610	0.008172109	0.15966281	2.176006667
167 Kogel Bay	0.3623	0.214	0.214	0.016591891	2610	0.043304835	0.306163453	3.135907778
168 Kogel Bay	0.2676	0.2316	0.2316	0.014353679	2610	0.037463101	0.331343251	2.316226667
169 Kogel Bay	0.1516	0.0888	0.0888	0.001195433	2610	0.003120079	0.127043526	1.312182222
170 Kogel Bay	0.1123	0.1111	0.1111	0.001386142	2610	0.003617832	0.158947475	0.972018889
171 Kogel Bay	0.1202	0.0847	0.0847	0.000862326	2610	0.00225067	0.121177778	1.040397778
172 Kogel Bay	0.1647	0.1252	0.1252	0.002581679	2610	0.006738182	0.179119927	1.42557
173 Kogel Bay	0.2573	0.1996	0.1996	0.010250873	2610	0.026754779	0.2855618	2.227074444
174 Kogel Bay	0.2494	0.2296	0.2296	0.01314741	2610	0.034314741	0.32848191	2.158695556
175 Kogel Bay	0.115	0.0625	0.0625	0.000449219	2610	0.001172461	0.089416896	0.995388889
176 Kogel Bay	0.1249	0.1016	0.1016	0.001289288	2610	0.003365041	0.145356107	1.081078889
177 Kogel Bay	0.1802	0.1296	0.1296	0.003026668	2610	0.007899604	0.185414876	1.559731111
178 Kogel Bay	0.1374	0.0703	0.0703	0.000679043	2610	0.001772303	0.100576125	1.189273333
179 Kogel Bay	0.259	0.1597	0.1597	0.006605559	2610	0.01724051	0.228478053	2.241788889
180 Kogel Bay	0.3316	0.1957	0.1957	0.012699779	2610	0.033146424	0.279982185	2.870182222
181 Kogel Bay	0.2155	0.0945	0.0945	0.001924469	2610	0.005022864	0.135198347	1.865272222
182 Kogel Bay	0.1814	0.0896	0.0896	0.001456308	2610	0.003800964	0.128188062	1.570117778
183 Kogel Bay	0.1123	0.1006	0.1006	0.001136516	2610	0.002966308	0.143925436	0.972018889
184 Kogel Bay	0.0824	0.0581	0.0581	0.00027815	2610	0.000725972	0.083121947	0.713217778
185 Kogel Bay	0.8967	0.5522	0.5522	0.273426104	2610	0.713642132	0.790016162	7.761436667
186 Kogel Bay	0.2229	0.1322	0.1322	0.003895588	2610	0.010167484	0.189134619	1.929323333
187 Kogel Bay	0.1965	0.0772	0.0772	0.001171109	2610	0.003056593	0.11044775	1.700816667
188 Kogel Bay	0.4861	0.2991	0.2991	0.0434869	2610	0.113500808	0.427913499	4.207465556
189 Kogel Bay	0.1587	0.0975	0.0975	0.001508642	2610	0.003937555	0.139490358	1.373636667
190 Kogel Bay	0.2115	0.1037	0.1037	0.002274405	2610	0.005936198	0.148360514	1.83065
191 Kogel Bay	0.0596	0.0355	0.0355	7.51109E-05	2610	0.000196039	0.050788797	0.515871111
192 Kogel Bay	0.1619	0.0966	0.0966	0.00151078	2610	0.003943135	0.138202755	1.401334444
193 Kogel Bay	0.0748	0.0552	0.0552	0.000227919	2610	0.000594868	0.078973003	0.647435556
194 Kogel Bay	0.0764	0.0565	0.0565	0.000243888	2610	0.000636547	0.080832874	0.661284444
195 Kogel Bay	0.0852	0.0521	0.0521	0.000231268	2610	0.000603609	0.074537925	0.737453333
196 Kogel Bay	0.1007	0.0805	0.0805	0.000652561	2610	0.001703185	0.115168962	0.871614444
197 Kogel Bay	0.0696	0.0414	0.0414	0.000119292	2610	0.000311351	0.059229752	0.602426667
198 Kogel Bay	0.0639	0.0331	0.0331	7.00095E-05	2610	0.000182725	0.047355188	0.55309
199 Kogel Bay	0.0651	0.0635	0.0635	0.000262499	2610	0.000685124	0.090847567	0.563476667
200 Kogel Bay	0.1039	0.0595	0.0595	0.000367832	2610	0.000960041	0.085124885	0.899312222
201 Kogel Bay	0.1965	0.0614	0.0614	0.000740797	2610	0.001933481	0.087843159	1.700816667

202	Kogel Bay	0.1973	0.1168	0.1168	0.002691614	2610	0.007025112	0.167102296	1.707741111
203	Kogel Bay	0.1631	0.0795	0.0795	0.001030833	2610	0.002690474	0.113738292	1.411721111
204	Kogel Bay	0.0921	0.0905	0.0905	0.000754322	2610	0.00196878	0.129475666	0.797176667
205	Kogel Bay	0.0624	0.044	0.044	0.000120806	2610	0.000315305	0.062949495	0.540106667
206	Kogel Bay	0.1014	0.0416	0.0416	0.000175479	2610	0.000458	0.059515886	0.877673333
207	Kogel Bay	0.0692	0.0433	0.0433	0.000129742	2610	0.000338628	0.061948026	0.598964444
208	Kogel Bay	0.1167	0.1377	0.1377	0.002212783	2610	0.005775362	0.197003306	1.010103333
209	Kogel Bay	0.1049	0.0655	0.0655	0.000450047	2610	0.001174623	0.093708907	0.907967778
210	Kogel Bay	0.105	0.0532	0.0532	0.000297175	2610	0.000775627	0.076111662	0.908833333
211	Kogel Bay	0.103	0.058	0.058	0.000346492	2610	0.000904344	0.08297888	0.891522222
212	Kogel Bay	0.1792	0.088	0.088	0.001387725	2610	0.003621962	0.12589899	1.551075556
213	Kogel Bay	0.0686	0.0564	0.0564	0.000218214	2610	0.000569538	0.080689807	0.593771111
214	Kogel Bay	0.0909	0.0514	0.0514	0.000240154	2610	0.000626802	0.073536455	0.78679
215	Kogel Bay	0.1019	0.0726	0.0726	0.00053709	2610	0.001401806	0.103866667	0.882001111
216	Kogel Bay	0.1363	0.0735	0.0735	0.000736327	2610	0.001921813	0.10515427	1.179522222
217	Kogel Bay	0.12	0.1101	0.1101	0.001454641	2610	0.003796614	0.157516804	1.038666667
218	Kogel Bay	0.0789	0.0561	0.0561	0.000248315	2610	0.000648102	0.080260606	0.682923333
219	Kogel Bay	0.0819	0.034	0.034	9.46764E-05	2610	0.000247105	0.048642792	0.70889
220	Kogel Bay	0.0639	0.0537	0.0537	0.000184268	2610	0.000480939	0.076826997	0.55309
221	Kogel Bay	0.0764	0.0488	0.0488	0.000181942	2610	0.000474869	0.069816713	0.661284444
222	Kogel Bay	0.063	0.0616	0.0616	0.000239057	2610	0.00062394	0.088129293	0.5453
223	Kogel Bay	0.0828	0.032	0.032	8.47872E-05	2610	0.000221295	0.045781451	0.71668
224	Kogel Bay	0.0814	0.0534	0.0534	0.000232117	2610	0.000605825	0.076397796	0.704562222
225	Kogel Bay	0.0638	0.0515	0.0515	0.000169214	2610	0.000441647	0.073679522	0.552224444
226	Kogel Bay	0.112	0.0553	0.0553	0.000342506	2610	0.000893941	0.07911607	0.969422222
227	Kogel Bay	0.1026	0.0444	0.0444	0.000202262	2610	0.000527903	0.063521763	0.88806
228	Kogel Bay	0.0581	0.038	0.038	8.38964E-05	2610	0.00021897	0.054365473	0.502887778
229	Kogel Bay	0.0473	0.0452	0.0452	9.66358E-05	2610	0.000252219	0.064666299	0.409407778
230	Kogel Bay	0.0984	0.0415	0.0415	0.000169469	2610	0.000442315	0.059372819	0.851706667
231	Kogel Bay	0.0647	0.0486	0.0486	0.000152819	2610	0.000398857	0.069530579	0.560014444
232	Kogel Bay	0.1759	0.0625	0.0625	0.000687109	2610	0.001793355	0.089416896	1.522512222
233	Kogel Bay	1.0308	0.5703	0.5703	0.335259546	2610	0.875027416	0.815911295	8.922146667
234	Kogel Bay	0.1596	0.1187	0.1187	0.002248715	2610	0.005869145	0.169820569	1.381426667
235	Kogel Bay	0.2581	0.0969	0.0969	0.002423458	2610	0.006325226	0.138631956	2.233998889
236	Kogel Bay	0.1206	0.0502	0.0502	0.000303917	2610	0.000793223	0.071819651	1.04386
8)1	Kogel Bay	0.10784	0.05058	0.05058	0.000275891	2610	0.000720076	0.072363306	0.933415111
2	Kogel Bay	0.2336	0.21808	0.21808	0.011109756	2610	0.028996463	0.312000588	2.021937778
3	Kogel Bay	0.1188	0.08049	0.08049	0.000769662	2610	0.002008819	0.115154656	1.02828
4	Kogel Bay	0.80576	0.48111	0.48111	0.186506715	2610	0.486782525	0.688309807	6.974300444
5	Kogel Bay	0.1013	0.08584	0.08584	0.00074643	2610	0.001948181	0.122808742	0.876807778
6	Kogel Bay	0.13118	0.08765	0.08765	0.001007793	2610	0.002630341	0.125398255	1.135435778
7	Kogel Bay	0.07138	0.06267	0.06267	0.000280347	2610	0.000731706	0.08966011	0.617833556
8	Kogel Bay	0.09682	0.05285	0.05285	0.00027043	2610	0.000705823	0.075610927	0.838030889
9	Kogel Bay	0.15026	0.06865	0.06865	0.000708149	2610	0.001848268	0.098215519	1.300583778
10	Kogel Bay	0.12097	0.07325	0.07325	0.000649072	2610	0.001694078	0.104796602	1.047062556
11	Kogel Bay	0.07016	0.03778	0.03778	0.000100141	2610	0.000261369	0.054050725	0.607273778
12	Kogel Bay	0.10779	0.06557	0.06557	0.000463435	2610	0.001209565	0.093809054	0.932982333
13	Kogel Bay	0.72061	0.27821	0.27821	0.055775793	2610	0.145574821	0.398026795	6.237279889
14	Kogel Bay	0.29367	0.16712	0.16712	0.008201937	2610	0.021407056	0.239093627	2.541877
15	Kogel Bay	0.09361	0.04488	0.04488	0.000188551	2610	0.000492117	0.064208485	0.810246556
16	Kogel Bay	0.22887	0.21293	0.21293	0.010376779	2610	0.027083394	0.304632635	1.980997
17	Kogel Bay	0.08018	0.05241	0.05241	0.000220239	2610	0.000574824	0.074981433	0.694002444

18	Kogel Bay	0.06807	0.06699	0.06699	0.000305475	2610	0.00079729	0.095840606	0.589183667
19	Kogel Bay	0.69448	0.28068	0.28068	0.054712011	2610	0.142798349	0.401560551	6.011110222
20	Kogel Bay	0.14171	0.06808	0.06808	0.00065681	2610	0.001714273	0.097400037	1.226578778
21	Kogel Bay	0.20148	0.09088	0.09088	0.001664058	2610	0.004343193	0.13001932	1.743921333
22	Kogel Bay	0.23149	0.13065	0.13065	0.003951401	2610	0.010313156	0.18691708	2.003674556
23	Kogel Bay	0.50597	0.2667	0.2667	0.035989084	2610	0.09393151	0.38155978	4.379451444
24	Kogel Bay	0.1342	0.07374	0.07374	0.000729724	2610	0.00190458	0.105497631	1.161575556
25	Kogel Bay	0.07105	0.04309	0.04309	0.000131922	2610	0.000344316	0.061647585	0.614977222
26	Kogel Bay	0.15136	0.09734	0.09734	0.001434147	2610	0.003743125	0.139261451	1.310104889
27	Kogel Bay	0.19079	0.05602	0.05602	0.000598745	2610	0.001562724	0.080146152	1.651393444
28	Kogel Bay	0.05604	0.04303	0.04303	0.000103763	2610	0.00027082	0.061561745	0.485057333
29	Kogel Bay	0.15754	0.06985	0.06985	0.000768641	2610	0.002006154	0.099932323	1.363596222
30	Kogel Bay	0.33057	0.31258	0.31258	0.032298757	2610	0.084299756	0.447198935	2.861267
31	Kogel Bay	0.09821	0.05809	0.05809	0.000331405	2610	0.000864966	0.08310764	0.850062111
32	Kogel Bay	0.07939	0.03729	0.03729	0.000110395	2610	0.000288132	0.053349697	0.687164556
33	Kogel Bay	0.19588	0.14854	0.14854	0.004321922	2610	0.011280217	0.212511772	1.695450222
34	Kogel Bay	0.13158	0.08015	0.08015	0.000845273	2610	0.002206162	0.114668228	1.138898
35	Kogel Bay	0.20862	0.09399	0.09399	0.001842974	2610	0.004810162	0.134468705	1.805722
36	Kogel Bay	0.14705	0.07293	0.07293	0.000782127	2610	0.002041352	0.104338788	1.272799444
37	Kogel Bay	0.2005	0.15238	0.15238	0.004655543	2610	0.012150966	0.218005546	1.735438889
38	Kogel Bay	0.06314	0.04313	0.04313	0.000117453	2610	0.000306552	0.061704812	0.546511778
39	Kogel Bay	0.05636	0.04934	0.04934	0.000137205	2610	0.000358105	0.070589275	0.487827111
40	Kogel Bay	0.12019	0.0492	0.0492	0.000290937	2610	0.000759345	0.070388981	1.040311222
41	Kogel Bay	0.05234	0.05149	0.05149	0.000138765	2610	0.000362176	0.073665216	0.453031778
42	Kogel Bay	0.07599	0.05576	0.05576	0.000236266	2610	0.000616655	0.079774178	0.657735667
43	Kogel Bay	0.04587	0.04187	0.04187	8.04146E-05	2610	0.000209882	0.059902167	0.397030333
44	Kogel Bay	0.11026	0.09769	0.09769	0.001052248	2610	0.002746368	0.139762185	0.954361556
45	Kogel Bay	0.83816	0.53804	0.53804	0.242636459	2610	0.633281157	0.76975787	7.254740444
46	Kogel Bay	0.09316	0.03861	0.03861	0.000138877	2610	0.000362468	0.055238182	0.806351556
47	Kogel Bay	0.08712	0.03847	0.03847	0.000128932	2610	0.000336514	0.055037888	0.754072
48	Kogel Bay	0.17688	0.13113	0.13113	0.003041465	2610	0.007938224	0.187603802	1.530994667
49	Kogel Bay	0.06171	0.04524	0.04524	0.000126299	2610	0.000329641	0.064723526	0.534134333
50	Kogel Bay	0.08864	0.04649	0.04649	0.000191579	2610	0.000500022	0.066511864	0.767228444
51	Kogel Bay	0.17366	0.0883	0.0883	0.001354008	2610	0.003533961	0.126328191	1.503123778
52	Kogel Bay	0.16678	0.06796	0.06796	0.000770284	2610	0.00201044	0.097228356	1.443573556
53	Kogel Bay	0.21227	0.11724	0.11724	0.002917697	2610	0.00761519	0.167731791	1.837314778
54	Kogel Bay	0.10462	0.06331	0.06331	0.000419333	2610	0.00109446	0.090575739	0.905544222
55	Kogel Bay	0.09573	0.04778	0.04778	0.000218545	2610	0.000570402	0.068357429	0.828596333
56	Kogel Bay	0.0738	0.06297	0.06297	0.000292633	2610	0.000763773	0.090089311	0.63878
57	Kogel Bay	0.10814	0.04009	0.04009	0.000173803	2610	0.000453627	0.057355574	0.936011778
58	Kogel Bay	0.13071	0.05472	0.05472	0.000391382	2610	0.001021507	0.078286281	1.131367667
59	Kogel Bay	0.14452	0.08405	0.08405	0.001020947	2610	0.002664673	0.120247842	1.250900889
60	Kogel Bay	0.09997	0.06784	0.06784	0.000460088	2610	0.001200831	0.097056676	0.865295889
61	Kogel Bay	0.08813	0.04297	0.04297	0.000162725	2610	0.000424712	0.061475904	0.762814111
62	Kogel Bay	0.09709	0.09213	0.09213	0.000824094	2610	0.002150885	0.131807658	0.840367889
63	Kogel Bay	0.23072	0.13763	0.13763	0.004370302	2610	0.011406489	0.196903159	1.997009778
64	Kogel Bay	0.11344	0.06435	0.06435	0.000469746	2610	0.001226038	0.092063636	0.981886222
65	Kogel Bay	0.10986	0.09303	0.09303	0.000950792	2610	0.002481568	0.133095262	0.950899333
66	Kogel Bay	0.07719	0.06722	0.06722	0.000348785	2610	0.000910329	0.09616966	0.668122333
67	Kogel Bay	0.08456	0.04126	0.04126	0.000143954	2610	0.00037572	0.059029458	0.731913778
68	Kogel Bay	0.05162	0.04945	0.04945	0.000126227	2610	0.000329451	0.070746648	0.446799778
69	Kogel Bay	0.32909	0.17428	0.17428	0.009995621	2610	0.026088571	0.249337227	2.848456778

70	Kogel Bay	0.48887	0.28783	0.28783	0.040500977	2610	0.105707551	0.411789844	4.231441444
71	Kogel Bay	0.40593	0.2106	0.2106	0.018003953	2610	0.046990319	0.301299174	3.513549667
72	Kogel Bay	0.49532	0.32467	0.32467	0.052211983	2610	0.136273275	0.464495739	4.287269778
73	Kogel Bay	0.11689	0.0809	0.0809	0.000765023	2610	0.00199671	0.11574123	1.011747889
74	Kogel Bay	0.22041	0.1766	0.1766	0.00687405	2610	0.017941271	0.252656382	1.907771
75	Kogel Bay	0.169	0.0965	0.0965	0.00157377	2610	0.00410754	0.138059688	1.462788889
76	Kogel Bay	0.07565	0.04135	0.04135	0.000129348	2610	0.000337598	0.059158219	0.654792778
77	Kogel Bay	0.12151	0.10763	0.10763	0.001407598	2610	0.003673831	0.153983049	1.051736556
78	Kogel Bay	0.05855	0.03696	0.03696	7.99817E-05	2610	0.000208752	0.052877576	0.506782778
79	Kogel Bay	0.07837	0.0264	0.0264	5.46208E-05	2610	0.00014256	0.037769697	0.678335889
80	Kogel Bay	0.04688	0.0286	0.0286	3.8346E-05	2610	0.000100083	0.040917172	0.405772444
81	Kogel Bay	0.1	0.07486	0.07486	0.000560402	2610	0.001462649	0.107099982	0.865555556
82	Kogel Bay	0.07871	0.01708	0.01708	2.29618E-05	2610	5.99303E-05	0.024435849	0.681278778
83	Kogel Bay	0.0718	0.0318	0.0318	7.2607E-05	2610	0.000189504	0.045495317	0.621468889
84	Kogel Bay	0.05289	0.02234	0.02234	2.63961E-05	2610	6.88938E-05	0.031961175	0.457792333
85	Kogel Bay	0.22469	0.13129	0.13129	0.003872996	2610	0.010108519	0.187832709	1.944816778
86	Kogel Bay	0.06563	0.04089	0.04089	0.000109733	2610	0.000286403	0.05850011	0.568064111
87	Kogel Bay	0.0423	0.03501	0.03501	5.18471E-05	2610	0.000135321	0.050087769	0.36613
88	Kogel Bay	0.06902	0.03081	0.03081	6.55177E-05	2610	0.000171001	0.044078953	0.597406444
89	Kogel Bay	0.06462	0.02976	0.02976	5.72312E-05	2610	0.000149373	0.042576749	0.559322
90	Kogel Bay	0.31017	0.26581	0.26581	0.021915048	2610	0.057198275	0.380286483	2.684693667
91	Kogel Bay	0.17334	0.12616	0.12616	0.002758939	2610	0.007200832	0.18049337	1.500354
92	Kogel Bay	0.08941	0.03376	0.03376	0.000101904	2610	0.000265969	0.048299431	0.773893222
93	Kogel Bay	0.06878	0.05732	0.05732	0.000225982	2610	0.000589814	0.082006024	0.595329111
94	Kogel Bay	0.06018	0.04591	0.04591	0.000126843	2610	0.00033106	0.065682075	0.520891333
95	Kogel Bay	0.10317	0.08517	0.08517	0.000748388	2610	0.001953292	0.121850193	0.892993667
96	Kogel Bay	0.10369	0.08435	0.08435	0.000737746	2610	0.001925518	0.120677043	0.897494556
97	Kogel Bay	0.06154	0.03297	0.03297	6.68953E-05	2610	0.000174597	0.047169201	0.532662889
98	Kogel Bay	0.074	0.04046	0.04046	0.000121139	2610	0.000316172	0.057884922	0.640511111
99	Kogel Bay	0.04975	0.04919	0.04919	0.000120378	2610	0.000314186	0.070374674	0.430613889
100	Kogel Bay	0.04546	0.0377	0.0377	6.46118E-05	2610	0.000168637	0.053936272	0.393481556
101	Kogel Bay	0.05495	0.04233	0.04233	9.8461E-05	2610	0.000256983	0.060560275	0.475622778
102	Kogel Bay	0.27973	0.15559	0.15559	0.006771773	2610	0.017674328	0.222597998	2.421218556
103	Kogel Bay	0.15277	0.07926	0.07926	0.000959724	2610	0.002504879	0.113394931	1.322309222
104	Kogel Bay	0.13775	0.09775	0.09775	0.00131621	2610	0.003435308	0.139848026	1.192302778
105	Kogel Bay	0.07998	0.05645	0.05645	0.000254864	2610	0.000665196	0.080761341	0.692271333
106	Kogel Bay	0.06818	0.05239	0.05239	0.000187134	2610	0.000488421	0.074952819	0.590135778
107	Kogel Bay	0.11454	0.07842	0.07842	0.000704386	2610	0.001838448	0.112193168	0.991407333
108	Kogel Bay	0.04638	0.0467	0.0467	0.00010115	2610	0.000264001	0.066812305	0.401444667
109	Kogel Bay	0.04795	0.03717	0.03717	6.62481E-05	2610	0.000172908	0.053178017	0.415033889
110	Kogel Bay	0.09129	0.06678	0.06678	0.000407114	2610	0.001062568	0.095540165	0.790165667
111	Kogel Bay	0.08306	0.07746	0.07746	0.000498364	2610	0.001300731	0.110819725	0.718930444
112	Kogel Bay	0.12802	0.10105	0.10105	0.001307225	2610	0.003411858	0.144569238	1.108084222
113	Kogel Bay	0.13781	0.07288	0.07288	0.000731977	2610	0.00191046	0.104267254	1.192822111
114	Kogel Bay	0.67087	0.38935	0.38935	0.101699479	2610	0.265435641	0.557031497	5.806752556
115	Kogel Bay	0.16233	0.11949	0.11949	0.002317725	2610	0.006049262	0.170950799	1.405056333
116	Kogel Bay	0.07117	0.05632	0.05632	0.000225747	2610	0.0005892	0.080575354	0.616015889
117	Kogel Bay	0.07291	0.03259	0.03259	7.74383E-05	2610	0.000202114	0.046625546	0.631076556
118	Kogel Bay	0.10488	0.03229	0.03229	0.000109353	2610	0.00028541	0.046196345	0.907794667
119	Kogel Bay	0.10801	0.06515	0.06515	0.000458451	2610	0.001196557	0.093208173	0.934886556
120	Kogel Bay	0.07813	0.03031	0.03031	7.17777E-05	2610	0.00018734	0.043363618	0.676258556
121	Kogel Bay	0.09824	0.04092	0.04092	0.000164498	2610	0.000429339	0.05854303	0.850321778

122	Kogel Bay	0.09705	0.03599	0.03599	0.000125707	2610	0.000328095	0.051489826	0.840021667
123	Kogel Bay	0.1236	0.03733	0.03733	0.00017224	2610	0.000449547	0.053406924	1.069826667
124	Kogel Bay	0.08431	0.05231	0.05231	0.0002307	2610	0.000602128	0.074838365	0.729749889
125	Kogel Bay	0.09921	0.04323	0.04323	0.000185407	2610	0.000483912	0.061847879	0.858717667
126	Kogel Bay	0.04942	0.04119	0.04119	8.38468E-05	2610	0.00021884	0.058929311	0.427757556
127	Kogel Bay	0.04602	0.03236	0.03236	4.81907E-05	2610	0.000125778	0.046296492	0.398328667
128	Kogel Bay	0.05813	0.03595	0.03595	7.51274E-05	2610	0.000196082	0.051432599	0.503147444
129	Kogel Bay	0.07038	0.06874	0.06874	0.000332559	2610	0.000867978	0.098344279	0.609178
130	Kogel Bay	0.17869	0.10376	0.10376	0.001923801	2610	0.005021121	0.148446354	1.546661222
131	Kogel Bay	0.06446	0.0427	0.0427	0.000117529	2610	0.000306751	0.061089624	0.557937111
132	Kogel Bay	0.05307	0.03349	0.03349	5.95223E-05	2610	0.000155353	0.04791315	0.459350333
133	Kogel Bay	0.35573	0.20235	0.20235	0.014565551	2610	0.038016087	0.289496143	3.079040778
134	Kogel Bay	0.04258	0.03398	0.03398	4.91646E-05	2610	0.00012832	0.048614178	0.368553556
135	Kogel Bay	0.11556	0.06462	0.06462	0.000482549	2610	0.001259453	0.092449917	1.000236
136	Kogel Bay	0.07939	0.05798	0.05798	0.000266884	2610	0.000696567	0.082950266	0.687164556
137	Kogel Bay	0.0835	0.05184	0.05184	0.000224397	2610	0.000585675	0.07416595	0.722738889
138	Kogel Bay	0.40658	0.31192	0.31192	0.03955783	2610	0.103245935	0.446254692	3.519175778
139	Kogel Bay	0.17965	0.16803	0.16803	0.005072253	2610	0.013238579	0.240395537	1.554970556
140	Kogel Bay	0.0914	0.05814	0.05814	0.000308956	2610	0.000806374	0.083179174	0.791117778
141	Kogel Bay	0.11162	0.07578	0.07578	0.00064099	2610	0.001672984	0.108416198	0.966133111
142	Kogel Bay	0.09113	0.05568	0.05568	0.000282527	2610	0.000737395	0.079659725	0.788780778
143	Kogel Bay	0.38518	0.30906	0.30906	0.036791655	2610	0.096026221	0.442162975	3.333946889
144	Kogel Bay	0.12155	0.07182	0.07182	0.000626969	2610	0.001636388	0.102750744	1.052082778
145	Kogel Bay	0.13455	0.12021	0.12021	0.001944307	2610	0.005074642	0.171980882	1.164605
146	Kogel Bay	0.0991	0.07883	0.07883	0.000615824	2610	0.001607301	0.112779743	0.857765556
147	Kogel Bay	0.145	0.10719	0.10719	0.001666006	2610	0.004348275	0.153353554	1.255055556
148	Kogel Bay	0.07682	0.07567	0.07567	0.000439867	2610	0.001148054	0.108258825	0.664919778
149	Kogel Bay	0.16806	0.14288	0.14288	0.003430894	2610	0.008954632	0.204414178	1.454652667
150	Kogel Bay	0.10695	0.07735	0.07735	0.000639884	2610	0.001670098	0.110662351	0.925711667
151	Kogel Bay	0.1913	0.14004	0.14004	0.003751623	2610	0.009791736	0.200351074	1.655807778
152	Kogel Bay	0.12162	0.06856	0.06856	0.000571672	2610	0.001492063	0.098086758	1.052688667
153	Kogel Bay	0.13306	0.06235	0.06235	0.000517274	2610	0.001350084	0.089202296	1.151708222
154	Kogel Bay	0.09562	0.03912	0.03912	0.000146334	2610	0.000381933	0.055967824	0.827644222
155	Kogel Bay	0.08693	0.07622	0.07622	0.000505019	2610	0.001318099	0.109045693	0.752427444
156	Kogel Bay	0.1362	0.11319	0.11319	0.001744991	2610	0.004554427	0.161937576	1.178886667
157	Kogel Bay	0.18105	0.08402	0.08402	0.001278097	2610	0.003335834	0.120204922	1.567088333
158	Kogel Bay	0.19361	0.12442	0.12442	0.002997148	2610	0.007822556	0.178004004	1.675802111
159	Kogel Bay	0.07286	0.05459	0.05459	0.000217128	2610	0.000566703	0.078100294	0.630643778
160	Kogel Bay	0.13769	0.06534	0.06534	0.000587842	2610	0.001534268	0.09348	1.191783444
161	Kogel Bay	0.13292	0.10682	0.10682	0.001516685	2610	0.003958549	0.152824206	1.150496444
162	Kogel Bay	0.24157	0.14229	0.14229	0.004890934	2610	0.012765336	0.203570083	2.090922556
163	Kogel Bay	0.2137	0.06329	0.06329	0.000856002	2610	0.002234165	0.090547126	1.849692222
164	Kogel Bay	0.06829	0.06091	0.06091	0.000253358	2610	0.000661264	0.08714213	0.591087889
165	Kogel Bay	0.17383	0.1363	0.1363	0.00322936	2610	0.008428629	0.195000367	1.504595222
166	Kogel Bay	0.10303	0.09464	0.09464	0.000922812	2610	0.002408539	0.135398641	0.891781889
167	Kogel Bay	0.30799	0.29556	0.29556	0.026904686	2610	0.070221231	0.422848926	2.665824556
168	Kogel Bay	0.18773	0.10332	0.10332	0.002004022	2610	0.005230497	0.14781686	1.624907444
169	Kogel Bay	0.11378	0.05243	0.05243	0.00031277	2610	0.000816331	0.075010046	0.984829111
170	Kogel Bay	0.42915	0.42892	0.42892	0.078951741	2610	0.206064044	0.613643122	3.714531667
171	Kogel Bay	0.14076	0.06412	0.06412	0.000578717	2610	0.001510452	0.091734582	1.218356
172	Kogel Bay	0.09488	0.05666	0.05666	0.000304599	2610	0.000795002	0.081061781	0.821239111
173	Kogel Bay	0.09899	0.08167	0.08167	0.000660262	2610	0.001723284	0.116842847	0.856813444

174	Kogel Bay	0.11389	0.10409	0.10409	0.001233967	2610	0.003220654	0.148918476	0.985781222
175	Kogel Bay	0.18061	0.06194	0.06194	0.000692922	2610	0.001808526	0.088615721	1.563279889
176	Kogel Bay	0.18627	0.10256	0.10256	0.001959291	2610	0.005113749	0.14672955	1.612270333
177	Kogel Bay	0.11245	0.10111	0.10111	0.001149602	2610	0.003000462	0.144655078	0.973317222
178	Kogel Bay	0.22358	0.11322	0.11322	0.00286602	2610	0.007480313	0.161980496	1.935209111
179	Kogel Bay	0.1871	0.16553	0.16553	0.005126574	2610	0.013380358	0.236818861	1.619454444
180	Kogel Bay	0.58524	0.31	0.31	0.056241564	2610	0.146790482	0.443507805	5.065577333
181	Kogel Bay	0.99221	0.82258	0.82258	0.671366847	2610	1.752267472	1.176840808	8.588128778
182	Kogel Bay	0.07163	0.06	0.06	0.000257868	2610	0.000673035	0.08584022	0.619997444
183	Kogel Bay	0.07205	0.07	0.07	0.000353045	2610	0.000921447	0.100146924	0.623632778
184	Kogel Bay	0.26576883	0.18847877	0.1884788	0.009441237	2610	0.024641629	0.269650983	2.300376867
185	Kogel Bay	0.26957571	0.19117193	0.1911719	0.009852104	2610	0.025713991	0.273504006	2.333327511
186	Kogel Bay	0.27338259	0.19386509	0.1938651	0.010274721	2610	0.026817022	0.277357028	2.366278156
187	Kogel Bay	0.27718946	0.19655824	0.1965582	0.010709255	2610	0.027951155	0.28121005	2.3992288
9)1	Kogel Bay	0.9372	0.6441	0.6441	0.3888113	2610	1.014797493	0.921494766	8.111986667
2	Kogel Bay	0.1324	0.1165	0.1165	0.001796966	2610	0.004690081	0.166673095	1.145995556
3	Kogel Bay	0.1108	0.0492	0.0492	0.000268207	2610	0.00070002	0.070388981	0.959035556
4	Kogel Bay	0.1143	0.0932	0.0932	0.000992837	2610	0.002591305	0.133338476	0.98933
5	Kogel Bay	0.1202	0.0691	0.0691	0.000573932	2610	0.001497963	0.09885932	1.040397778
6	Kogel Bay	0.076	0.0599	0.0599	0.000272689	2610	0.000711718	0.085697153	0.657822222
7	Kogel Bay	0.058	0.0321	0.0321	5.97638E-05	2610	0.000155983	0.045924518	0.502022222
8	Kogel Bay	0.0833	0.0799	0.0799	0.000531788	2610	0.001387967	0.11431056	0.721007778
9	Kogel Bay	0.091	0.0517	0.0517	0.000243233	2610	0.000634838	0.073965657	0.787655556
10	Kogel Bay	0.1519	0.0427	0.0427	0.000276958	2610	0.00072286	0.061089624	1.314778889
11	Kogel Bay	0.0541	0.027	0.027	3.94389E-05	2610	0.000102936	0.038628099	0.468265556
12	Kogel Bay	0.046	0.0391	0.0391	7.03253E-05	2610	0.000183549	0.05593921	0.398155556
13	Kogel Bay	0.0764	0.0455	0.0455	0.000158167	2610	0.000412816	0.0650955	0.661284444
14	Kogel Bay	0.0762	0.0549	0.0549	0.000229668	2610	0.000599432	0.078543802	0.659553333
15	Kogel Bay	0.1301	0.0729	0.0729	0.000691405	2610	0.001804566	0.104295868	1.126087778
16	Kogel Bay	0.0412	0.0257	0.0257	2.72122E-05	2610	7.10238E-05	0.036768228	0.356608889
17	Kogel Bay	0.2183	0.1212	0.1212	0.003206705	2610	0.008369499	0.173397245	1.889507778
18	Kogel Bay	0.2192	0.2244	0.2244	0.011037895	2610	0.028808906	0.321042424	1.897297778
19	Kogel Bay	0.9681	0.9847	0.9847	0.938702763	2610	2.45001421	1.408781084	8.379443333
20	Kogel Bay	0.2167	0.0802	0.0802	0.001393823	2610	0.003637878	0.114739761	1.875658889
21	Kogel Bay	0.0989	0.0695	0.0695	0.000477712	2610	0.001246828	0.099431589	0.856034444
22	Kogel Bay	0.1614	0.1337	0.1337	0.002885136	2610	0.007530206	0.191280624	1.397006667
23	Kogel Bay	0.1822	0.0993	0.0993	0.001796581	2610	0.004689077	0.142065565	1.577042222
24	Kogel Bay	0.1312	0.0553	0.0553	0.000401221	2610	0.001047188	0.07911607	1.135608889
25	Kogel Bay	0.1215	0.0645	0.0645	0.00050547	2610	0.001319278	0.092278237	1.05165
26	Kogel Bay	1.6924	0.9657	0.9657	1.578292452	2610	4.119343299	1.381598347	14.64866222
27	Kogel Bay	0.3446	0.2781	0.2781	0.02665123	2610	0.069559709	0.397869421	2.982704444
28	Kogel Bay	0.163	0.0974	0.0974	0.001546342	2610	0.004035952	0.139347291	1.410855556
29	Kogel Bay	0.1298	0.0888	0.0888	0.00102353	2610	0.002671414	0.127043526	1.123491111
30	Kogel Bay	0.2943	0.2257	0.2257	0.014991786	2610	0.039128562	0.322902296	2.54733
31	Kogel Bay	0.1831	0.1099	0.1099	0.002211484	2610	0.005771972	0.15723067	1.584832222
32	Kogel Bay	0.1922	0.0839	0.0839	0.001352936	2610	0.003531163	0.120033242	1.663597778
33	Kogel Bay	0.2107	0.1154	0.1154	0.002805926	2610	0.007323466	0.165099357	1.823725556
34	Kogel Bay	0.1547	0.0591	0.0591	0.000540338	2610	0.001410281	0.084552617	1.339014444
35	Kogel Bay	0.9135	0.6288	0.6288	0.361188253	2610	0.942701341	0.89960551	7.90685
36	Kogel Bay	0.2563	0.1595	0.1595	0.006520336	2610	0.017018077	0.228191919	2.218418889
37	Kogel Bay	0.2277	0.1934	0.1934	0.008516791	2610	0.022228823	0.276691644	1.97087
38	Kogel Bay	0.2689	0.1965	0.1965	0.010382834	2610	0.027099197	0.281126722	2.327478889

39	Kogel Bay	0.0985	0.0651	0.0651	0.000417444	2610	0.001089529	0.093136639	0.852572222
40	Kogel Bay	0.0841	0.0737	0.0737	0.000456805	2610	0.001192261	0.105440404	0.727932222
41	Kogel Bay	0.1319	0.1005	0.1005	0.001332223	2610	0.003477102	0.143782369	1.141667778
42	Kogel Bay	0.1061	0.0647	0.0647	0.000444144	2610	0.001159216	0.092564371	0.918354444
43	Kogel Bay	0.2606	0.1708	0.1708	0.00760239	2610	0.019842238	0.244358494	2.255637778
44	Kogel Bay	0.3794	0.1228	0.1228	0.005721291	2610	0.01493257	0.175686318	3.283917778
45	Kogel Bay	0.2326	0.1611	0.1611	0.006036717	2610	0.01575583	0.230480992	2.013282222
46	Kogel Bay	0.1045	0.105	0.105	0.001152113	2610	0.003007014	0.150220386	0.904505556
47	Kogel Bay	0.1111	0.0724	0.0724	0.00058236	2610	0.001519958	0.103580533	0.961632222
48	Kogel Bay	0.1024	0.0887	0.0887	0.000805651	2610	0.00210275	0.126900459	0.886328889
49	Kogel Bay	0.1534	0.146	0.146	0.003269874	2610	0.008534372	0.20887787	1.327762222
50	Kogel Bay	0.2296	0.1127	0.1127	0.002916216	2610	0.007611324	0.161236547	1.987315556
51	Kogel Bay	0.5624	0.4407	0.4407	0.109227354	2610	0.285083394	0.630496419	4.867884444
52	Kogel Bay	0.2422	0.1726	0.1726	0.007215322	2610	0.018831991	0.246933701	2.096375556
53	Kogel Bay	0.2546	0.0713	0.0713	0.001294307	2610	0.003378143	0.102006795	2.203704444
54	Kogel Bay	0.1318	0.0984	0.0984	0.001276161	2610	0.003330781	0.140777961	1.140802222
55	Kogel Bay	0.1295	0.0768	0.0768	0.000763822	2610	0.001993576	0.109875482	1.120894444
56	Kogel Bay	0.253	0.141	0.141	0.005029893	2610	0.013128021	0.201724518	2.189855556
57	Kogel Bay	0.2541	0.0804	0.0804	0.001642543	2610	0.004287037	0.115025895	2.199376667
58	Kogel Bay	0.3761	0.2512	0.2512	0.023732452	2610	0.061941699	0.359384389	3.255354444
59	Kogel Bay	0.2516	0.1468	0.1468	0.00542204	2610	0.014151525	0.210022406	2.177737778
60	Kogel Bay	0.2574	0.2455	0.2455	0.015513562	2610	0.040490398	0.351229568	2.22794
61	Kogel Bay	0.2625	0.2148	0.2148	0.012111498	2610	0.03161101	0.307307989	2.272083333
62	Kogel Bay	0.4779	0.4129	0.4129	0.081475455	2610	0.212650938	0.590723783	4.13649
63	Kogel Bay	0.2256	0.0845	0.0845	0.00161084	2610	0.004204293	0.120891644	1.952693333
64	Kogel Bay	0.1761	0.1446	0.1446	0.003682103	2610	0.009610289	0.206874931	1.524243333
65	Kogel Bay	0.258	0.1648	0.1648	0.007007032	2610	0.018288354	0.235774472	2.233133333
66	Kogel Bay	0.4721	0.431	0.431	0.087697768	2610	0.228891175	0.616618916	4.086287778
67	Kogel Bay	0.2287	0.1726	0.1726	0.006813147	2610	0.017782313	0.246933701	1.979525556
68	Kogel Bay	0.2811	0.1713	0.1713	0.008248511	2610	0.021528614	0.245073829	2.433076667
69	Kogel Bay	0.242	0.1521	0.1521	0.005598527	2610	0.014612156	0.217604959	2.094644444
70	Kogel Bay	0.3596	0.2359	0.2359	0.020011312	2610	0.052229525	0.337495133	3.112537778
71	Kogel Bay	0.1482	0.1164	0.1164	0.002007956	2610	0.005240765	0.166530028	1.282753333
72	Kogel Bay	0.2107	0.2029	0.2029	0.008674184	2610	0.02263962	0.290283012	1.823725556
73	Kogel Bay	0.1433	0.1166	0.1166	0.001948244	2610	0.005084916	0.166816162	1.240341111
74	Kogel Bay	0.2037	0.0762	0.0762	0.001182772	2610	0.003087034	0.10901708	1.763136667
75	Kogel Bay	0.2448	0.2031	0.2031	0.010097905	2610	0.026355531	0.290569146	2.11888
76	Kogel Bay	0.2005	0.1386	0.1386	0.003851597	2610	0.010052668	0.198290909	1.735438889
77	Kogel Bay	0.5994	0.4036	0.4036	0.09763804	2610	0.254835285	0.577418549	5.18814
78	Kogel Bay	0.3569	0.2467	0.2467	0.021721252	2610	0.056692467	0.352946373	3.089167778
79	Kogel Bay	0.2932	0.1159	0.1159	0.0039385	2610	0.010279485	0.165814692	2.537808889
80	Kogel Bay	0.1938	0.0704	0.0704	0.000960504	2610	0.002506915	0.100719192	1.677446667
81	Kogel Bay	0.7949	0.5786	0.5786	0.266115	2610	0.694560151	0.827785859	6.880301111
82	Kogel Bay	0.2882	0.1461	0.1461	0.00615169	2610	0.01605591	0.209020937	2.494531111
83	Kogel Bay	0.2921	0.1626	0.1626	0.007722762	2610	0.020156408	0.232626997	2.528287778
84	Kogel Bay	0.2142	0.1791	0.1791	0.006870853	2610	0.017932926	0.256233058	1.85402
85	Kogel Bay	0.3654	0.213	0.213	0.016577833	2610	0.043268143	0.304732782	3.16274
86	Kogel Bay	0.2135	0.119	0.119	0.003023374	2610	0.007891005	0.17024977	1.847961111
87	Kogel Bay	0.216	0.1339	0.1339	0.003872709	2610	0.010107771	0.191566758	1.8696
88	Kogel Bay	0.1993	0.1635	0.1635	0.005327737	2610	0.013905395	0.233914601	1.725052222
89	Kogel Bay	0.2769	0.2301	0.2301	0.01466075	2610	0.038264558	0.329197245	2.396723333
90	Kogel Bay	0.2886	0.1665	0.1665	0.008000641	2610	0.020881674	0.238206612	2.497993333

91	Kogel Bay	0.1895	0.1127	0.1127	0.002406894	2610	0.006281995	0.161236547	1.640227778
92	Kogel Bay	0.2742	0.1691	0.1691	0.007840697	2610	0.020464219	0.241926354	2.373353333
93	Kogel Bay	0.0937	0.0574	0.0574	0.000308719	2610	0.000805757	0.082120478	0.811025556
94	Kogel Bay	0.0982	0.0969	0.0969	0.00092206	2610	0.002406576	0.138631956	0.849975556
95	Kogel Bay	0.1638	0.0761	0.0761	0.0009486	2610	0.002475847	0.108874013	1.41778
96	Kogel Bay	0.1167	0.0642	0.0642	0.000480995	2610	0.001255398	0.091849036	1.010103333
97	Kogel Bay	0.2239	0.1471	0.1471	0.00484484	2610	0.012645032	0.210451607	1.937978889
98	Kogel Bay	0.1117	0.0698	0.0698	0.000544207	2610	0.00142038	0.09986079	0.966825556
99	Kogel Bay	0.1712	0.0939	0.0939	0.001509506	2610	0.003939812	0.134339945	1.481831111
100	Kogel Bay	0.0783	0.056	0.056	0.000245549	2610	0.000640882	0.080117539	0.67773
101	Kogel Bay	0.1514	0.0842	0.0842	0.001073371	2610	0.0028015	0.120462443	1.310451111
102	Kogel Bay	0.1631	0.088	0.088	0.001263046	2610	0.003296551	0.12589899	1.411721111
103	Kogel Bay	0.1701	0.1019	0.1019	0.001766252	2610	0.004609918	0.145785308	1.47231
104	Kogel Bay	0.1289	0.0466	0.0466	0.000279914	2610	0.000730576	0.066669238	1.115701111
105	Kogel Bay	0.1696	0.1376	0.1376	0.003211166	2610	0.008381142	0.196860239	1.467982222
106	Kogel Bay	0.1502	0.0666	0.0666	0.000666221	2610	0.001738837	0.095282645	1.300064444
107	Kogel Bay	0.1152	0.0829	0.0829	0.000791702	2610	0.002066341	0.118602571	0.99712
10)1	Kogel Bay	1.04693	0.48367	0.48367	0.244915317	2610	0.639228977	0.691972323	9.061760778
2	Kogel Bay	0.42995	0.31553	0.31553	0.04280547	2610	0.111722276	0.451419412	3.721456111
3	Kogel Bay	0.17686	0.12972	0.12972	0.002976072	2610	0.007767549	0.185586556	1.530821556
4	Kogel Bay	0.14861	0.12869	0.12869	0.002461147	2610	0.006423595	0.184112966	1.286302111
5	Kogel Bay	0.167	0.12433	0.12433	0.002581477	2610	0.006737656	0.177875243	1.445477778
6	Kogel Bay	0.22144	0.17313	0.17313	0.006637442	2610	0.017323723	0.247691956	1.916686222
7	Kogel Bay	0.15802	0.12735	0.12735	0.002562772	2610	0.006688835	0.182195868	1.367750889
8	Kogel Bay	0.34035	0.17043	0.17043	0.009885937	2610	0.025802296	0.243829146	2.945918333
9	Kogel Bay	0.25025	0.23678	0.23678	0.014030208	2610	0.036618844	0.338754123	2.166052778
10	Kogel Bay	0.08444	0.08018	0.08018	0.000542851	2610	0.00141684	0.114711148	0.730875111
11	Kogel Bay	0.11686	0.06946	0.06946	0.000563813	2610	0.001471553	0.099374362	1.011488222
12	Kogel Bay	0.18659	0.14457	0.14457	0.003899821	2610	0.010178534	0.206832011	1.615040111
13	Kogel Bay	0.14892	0.10095	0.10095	0.001517629	2610	0.003961012	0.144426171	1.288985333
14	Kogel Bay	0.41391	0.17958	0.17958	0.013348174	2610	0.034838734	0.25691978	3.582621
15	Kogel Bay	0.39414	0.3269	0.3269	0.042119223	2610	0.109931173	0.467686134	3.411500667
16	Kogel Bay	0.10568	0.06834	0.06834	0.000493563	2610	0.0012882	0.097772011	0.914719111
17	Kogel Bay	0.07418	0.0382	0.0382	0.000108246	2610	0.000282523	0.054651607	0.642069111
18	Kogel Bay	0.0707	0.06	0.06	0.00025452	2610	0.000664297	0.08584022	0.611947778
19	Kogel Bay	0.07902	0.04	0.04	0.000126432	2610	0.000329988	0.057226814	0.683962
20	Kogel Bay	0.07296	0.05304	0.05304	0.000205254	2610	0.000535713	0.075882755	0.631509333
21	Kogel Bay	0.12273	0.08	0.08	0.000785472	2610	0.002050082	0.114453627	1.062296333
22	Kogel Bay	0.107	0.07	0.07	0.0005243	2610	0.001368423	0.100146924	0.926144444
23	Kogel Bay	0.07731	0.05	0.05	0.000193275	2610	0.000504448	0.071533517	0.669161
24	Kogel Bay	0.07961	0.07	0.07	0.000390089	2610	0.001018132	0.100146924	0.689068778
25	Kogel Bay	0.0985	0.05	0.05	0.00024625	2610	0.000642713	0.071533517	0.852572222
26	Kogel Bay	0.08175	0.04	0.04	0.0001308	2610	0.000341388	0.057226814	0.707591667
27	Kogel Bay	0.18527	0.08	0.08	0.001185728	2610	0.00309475	0.114453627	1.603614778
28	Kogel Bay	0.05827	0.04	0.04	0.000093232	2610	0.000243336	0.057226814	0.504359222
29	Kogel Bay	0.11197	0.06	0.06	0.000403092	2610	0.00105207	0.08584022	0.969162556
30	Kogel Bay	0.20581	0.1	0.1	0.0020581	2610	0.005371641	0.143067034	1.781399889
31	Kogel Bay	0.21165	0.11	0.11	0.002560965	2610	0.006684119	0.157373737	1.831948333
32	Kogel Bay	1.80298	1.43	1.43	3.686913802	2610	9.622845023	2.045858586	15.60579356
33	Kogel Bay	0.35889	0.09	0.09	0.002907009	2610	0.007587293	0.128760331	3.106392333
34	Kogel Bay	0.22243	0.07	0.07	0.001089907	2610	0.002844657	0.100146924	1.925255222
35	Kogel Bay	0.20434	0.08	0.08	0.001307776	2610	0.003413295	0.114453627	1.768676222

36	Kogel Bay	0.16952	0.096	0.096	0.001562296	2610	0.004077593	0.137344353	1.467289778
37	Kogel Bay	0.14991	0.14	0.14	0.002938236	2610	0.007668796	0.200293848	1.297554333
38	Kogel Bay	0.14692	0.07	0.07	0.000719908	2610	0.00187896	0.100146924	1.271674222
39	Kogel Bay	0.11422	0.06	0.06	0.000411192	2610	0.001073211	0.08584022	0.988637556
40	Kogel Bay	0.1262	0.1	0.1	0.001262	2610	0.00329382	0.143067034	1.092331111
41	Kogel Bay	0.35668	0.18	0.18	0.011556432	2610	0.030162288	0.257520661	3.087263556
42	Kogel Bay	0.13784	0.06	0.06	0.000496224	2610	0.001295145	0.08584022	1.193081778
43	Kogel Bay	0.12687	0.09	0.09	0.001027647	2610	0.002682159	0.128760331	1.098130333
44	Kogel Bay	0.1481	0.09	0.09	0.00119961	2610	0.003130982	0.128760331	1.281887778
45	Kogel Bay	0.0861	0.08	0.08	0.00055104	2610	0.001438214	0.114453627	0.745243333
46	Kogel Bay	0.13503	0.09	0.09	0.001093743	2610	0.002854669	0.128760331	1.168759667
47	Kogel Bay	0.15312	0.11	0.11	0.001852752	2610	0.004835683	0.157373737	1.325338667
48	Kogel Bay	0.2373	0.12	0.12	0.00341712	2610	0.008918683	0.171680441	2.053963333
49	Kogel Bay	0.13675	0.11	0.11	0.001654675	2610	0.004318702	0.157373737	1.183647222
50	Kogel Bay	0.24743	0.09	0.09	0.002004183	2610	0.005230918	0.128760331	2.141644111
51	Kogel Bay	1.29511	1.14	1.14	1.683124956	2610	4.392956135	1.630964187	11.20989656
52	Kogel Bay	0.12204	0.12	0.12	0.001757376	2610	0.004586751	0.171680441	1.056324
53	Kogel Bay	0.10702	0.06	0.06	0.000385272	2610	0.00100556	0.08584022	0.926317556
54	Kogel Bay	0.12256	0.06134	0.06134	0.000461144	2610	0.001203585	0.087757319	1.060824889
55	Kogel Bay	0.38996	0.27	0.27	0.028428084	2610	0.074197299	0.386280992	3.375320444
56	Kogel Bay	0.1811	0.12	0.12	0.00260784	2610	0.006806462	0.171680441	1.567521111
57	Kogel Bay	0.11242	0.1	0.1	0.0011242	2610	0.002934162	0.143067034	0.973057556
58	Kogel Bay	0.09	0.06	0.06	0.000324	2610	0.00084564	0.08584022	0.779
59	Kogel Bay	0.19	0.07	0.07	0.000931	2610	0.00242991	0.100146924	1.644555556
60	Kogel Bay	0.08	0.04	0.04	0.000128	2610	0.00033408	0.057226814	0.692444444
61	Kogel Bay	2.71	1.67	1.67	7.557919	2610	19.72616859	2.389219467	23.45655556
62	Kogel Bay	0.14	0.08	0.08	0.000896	2610	0.00233856	0.114453627	1.211777778
63	Kogel Bay	0.22	0.16331	0.16331	0.005867434	2610	0.015314004	0.233642773	1.904222222
64	Kogel Bay	0.22	0.19727	0.19727	0.0085614	2610	0.022345253	0.282228338	1.904222222
65	Kogel Bay	0.23	0.19364	0.19364	0.008624183	2610	0.022509119	0.277035005	1.990777778
66	Kogel Bay	0.28	0.15166	0.15166	0.006440212	2610	0.016808952	0.216975464	2.423555556
67	Kogel Bay	3.21	2.29965	2.29965	16.97573229	2610	44.30666129	3.290041047	27.78433333
68	Kogel Bay	0.25	0.15538	0.15538	0.006035736	2610	0.015753271	0.222297557	2.163888889
69	Kogel Bay	0.19	0.14333	0.14333	0.003903263	2610	0.010187516	0.20505798	1.644555556
70	Kogel Bay	0.4	0.30787	0.30787	0.037913575	2610	0.09895443	0.440460478	3.462222222
71	Kogel Bay	0.18	0.09552	0.09552	0.001642333	2610	0.004286488	0.136657631	1.558
72	Kogel Bay	0.21	0.12954	0.12954	0.003523928	2610	0.009197453	0.185329036	1.817666667
73	Kogel Bay	0.14	0.07703	0.07703	0.000830707	2610	0.002168145	0.110204536	1.211777778
74	Kogel Bay	0.30083	0.12197	0.12197	0.004475352	2610	0.011680668	0.174498861	2.603850778
75	Kogel Bay	0.19183	0.18353	0.18353	0.00646146	2610	0.01686441	0.262570927	1.660395222
76	Kogel Bay	0.1848	0.13572	0.13572	0.003404001	2610	0.008884442	0.194170579	1.599546667
77	Kogel Bay	0.24828	0.13636	0.13636	0.004616531	2610	0.012049145	0.195086208	2.149001333
78	Kogel Bay	0.13929	0.09555	0.09555	0.00127169	2610	0.003319111	0.136700551	1.205632333
79	Kogel Bay	0.11942	0.08174	0.08174	0.000797896	2610	0.002082509	0.116942994	1.033646444
80	Kogel Bay	0.1876	0.11712	0.11712	0.002573327	2610	0.006716383	0.16756011	1.623782222
81	Kogel Bay	0.1296	0.0718	0.0718	0.000668119	2610	0.001743791	0.10272213	1.12176
82	Kogel Bay	0.09225	0.0703	0.0703	0.000455908	2610	0.001189919	0.100576125	0.798475
83	Kogel Bay	0.08968	0.06735	0.06735	0.00040679	2610	0.001061723	0.096355647	0.776230222
84	Kogel Bay	0.09482	0.04869	0.04869	0.000224791	2610	0.000586705	0.069659339	0.820719778
85	Kogel Bay	0.18315	0.0631	0.0631	0.000729232	2610	0.001903295	0.090275298	1.585265
86	Kogel Bay	0.15083	0.11178	0.11178	0.001884586	2610	0.004918769	0.159920331	1.305517444
87	Kogel Bay	0.32145	0.13407	0.13407	0.005777988	2610	0.015080549	0.191809972	2.782328333

88 Kogel Bay	0.34717	0.17402	0.17402	0.010513335	2610	0.027439805	0.248965253	3.004949222
89 Kogel Bay	0.14467	0.11069	0.11069	0.001772537	2610	0.004626321	0.1583609	1.252199222
90 Kogel Bay	0.11515	0.0955	0.0955	0.001050197	2610	0.002741014	0.136629017	0.996687222
91 Kogel Bay	0.17762	0.12304	0.12304	0.002688961	2610	0.007018188	0.176029679	1.537399778
92 Kogel Bay	0.51407	0.28468	0.28468	0.041661622	2610	0.108736833	0.407283232	4.449561444
93 Kogel Bay	0.17859	0.10494	0.10494	0.001966705	2610	0.0051331	0.150134545	1.545795667
94 Kogel Bay	0.1844	0.08668	0.08668	0.001385475	2610	0.00361609	0.124010505	1.596084444
95 Kogel Bay	0.44868	0.26156	0.26156	0.030695829	2610	0.080116114	0.374206134	3.883574667
96 Kogel Bay	0.19125	0.09381	0.09381	0.00168306	2610	0.004392788	0.134211185	1.655375
97 Kogel Bay	0.19722	0.16905	0.16905	0.005636134	2610	0.01471031	0.241854821	1.707048667
98 Kogel Bay	0.24367	0.19049	0.19049	0.008841917	2610	0.023077403	0.272528393	2.109099222
99 Kogel Bay	0.39968	0.3086	0.3086	0.038063109	2610	0.099344715	0.441504867	3.459452444
100 Kogel Bay	0.14691	0.12269	0.12269	0.002211412	2610	0.005771786	0.175528944	1.271587667
101 Kogel Bay	0.27692	0.22668	0.22668	0.014229208	2610	0.037138233	0.324304353	2.396896444
102 Kogel Bay	0.19198	0.157	0.157	0.004732115	2610	0.01235082	0.224615243	1.661693556
103 Kogel Bay	0.22314	0.16712	0.16712	0.006232098	2610	0.016265776	0.239093627	1.931400667
104 Kogel Bay	0.13572	0.11473	0.11473	0.001786479	2610	0.004662709	0.164140808	1.174732
105 Kogel Bay	0.2936	0.13809	0.13809	0.005598614	2610	0.014612382	0.197561267	2.541271111
106 Kogel Bay	0.17926	0.14004	0.14004	0.003515504	2610	0.009175465	0.200351074	1.551594889
107 Kogel Bay	0.20683	0.1252	0.1252	0.003242069	2610	0.008461799	0.179119927	1.790228556
108 Kogel Bay	0.23253	0.19803	0.19803	0.009118869	2610	0.023800248	0.283315647	2.012676333
109 Kogel Bay	0.2365	0.09549	0.09549	0.002156487	2610	0.005628432	0.136614711	2.047038889
110 Kogel Bay	0.16602	0.08044	0.08044	0.001074248	2610	0.002803787	0.115083122	1.436995333
111 Kogel Bay	0.266	0.23318	0.23318	0.014463195	2610	0.037748938	0.33360371	2.302377778
112 Kogel Bay	0.1643	0.10052	0.10052	0.001660132	2610	0.004332944	0.143810983	1.422107778
113 Kogel Bay	0.11613	0.06708	0.06708	0.000522553	2610	0.001363864	0.095969366	1.005169667
114 Kogel Bay	0.21009	0.13849	0.13849	0.004029417	2610	0.010516778	0.198133535	1.818445667
115 Kogel Bay	0.27731	0.16455	0.16455	0.00750864	2610	0.019597551	0.235416804	2.400272111
116 Kogel Bay	0.16909	0.12504	0.12504	0.002643722	2610	0.006900116	0.178891019	1.463567889
117 Kogel Bay	0.09505	0.07629	0.07629	0.000553207	2610	0.001443869	0.10914584	0.822710556

Clast id	Site name	Axes			Adjusted V(m ³)	density 2 (Kg/m ³)	Adjusted mass (t)	Pignatelli et	Nott (2003)
		A (m)	B(m)	C(m)				al. 2009	Hs=
3	Karbonkelberg	0.51	0.49	0.49	0.123	2610	0.32	0.70	4.44
8	Karbonkelberg	0.36	0.29	0.29	0.030	2610	0.08	0.41	3.11
52	Karbonkelberg	0.22	0.37	0.37	0.030	2610	0.08	0.53	1.93
102	Karbonkelberg	0.59	0.41	0.41	0.101	2610	0.26	0.59	5.10
122	Karbonkelberg	0.52	0.44	0.44	0.099	2610	0.26	0.63	4.48
2	Glencairn	0.70	0.64	0.64	0.288	2610	0.75	0.92	6.06
23	Glencairn	1.01	0.78	0.78	0.621	2610	1.62	1.12	8.77
49	Glencairn	1.33	0.68	0.68	0.606	2610	1.58	0.97	11.48
117	Glencairn	1.21	0.69	0.69	0.571	2610	1.49	0.98	10.50
131	Glencairn	1.30	0.93	0.93	1.117	2610	2.92	1.33	11.24
2	Misty Cliff	0.48	0.25	0.25	0.031	2610	0.08	0.36	4.12
75	Misty Cliff	0.50	0.33	0.33	0.054	2610	0.14	0.47	4.31
199	Misty Cliff	0.27	0.27	0.27	0.019	2610	0.05	0.38	2.36
476	Misty Cliff	0.28	0.27	0.27	0.021	2610	0.06	0.39	2.45
513	Misty Cliff	0.32	0.28	0.28	0.024	2610	0.06	0.40	2.74
54	Kogel Bay	1.78	1.50	1.50	4.030	2610	10.52	2.15	15.41
43	Kogel Bay	2.80	1.97	1.97	10.875	2610	28.38	2.82	24.22
32	Kogel Bay	1.80	1.43	1.43	3.687	2610	9.62	2.05	15.61
61	Kogel Bay	2.71	1.67	1.67	7.558	2610	19.73	2.39	23.46
67	Kogel Bay	3.21	2.30	2.30	16.976	2610	44.31	3.29	27.78

Orthoquartzite density = 2610 Kg/m³)

Van Wyk, P.R. and Croucamp, L., 2014. Evaluation of rock types for concrete aggregate suitability for the construction of a gravimeter vault and access road at the Matjiesfontein Geodesy Observatory site near Matjiesfontein, South Africa. Journal of the South African Institution of Civil Engineering= Joernaal van die Suid-Afrikaanse Instituut van Siviele Ingenieurswese, 56(2), pp.30-36.