

Geographical Statistics

AREA

		% of total
Antarctica – including ice shelves and islands	13,942,065km ²	100.00%
~58 times the size of the UK or 1.4 times the size of the USA		
Antarctica – excluding ice shelves and islands	12,162,579km ²	87.24%
Area ice free	45,616km ²	0.33%
Ross Ice Shelf	505,547km ²	3.63%
Ronne-Filchner Ice Shelf	450,634km ²	3.23%

LENGTH

Antarctic Peninsula	1,339km	
Transantarctic Mountains	3,300km	
Coastline	Total	58,062km 100.00%
	Ice shelves	20,327km 35.01%
	Rock	15,179km 26.14%
	Ice coastline	22,599km 38.92%

Coastlines are fractal in nature, so any measurement of them is dependant upon the scale at which the data is collected. Coastline lengths here are calculated from the most detailed information available.

HEIGHT

Mean height of Antarctica – including ice shelves	1,958m
Mean height of Antarctica – excluding ice shelves	2,194m
Modal height excluding ice shelves	3,090m

Highest mountains

1. Mount Vinson (Ellsworth Mts.)	4,892m
2. Mount Tyree (Ellsworth Mts.)	4,852m
3. Mount Shinn (Ellsworth Mts.)	4,661m
4. Mount Craddock (Ellsworth Mts.)	4,650m
5. Mount Gardner (Ellsworth Mts.)	4,587m
6. Mount Kirkpatrick (Queen Alexandra Range)	4,528m
7. Mount Elizabeth (Queen Alexandra Range)	4,480m
8. Mount Epperly (Ellsworth Mts.)	4,359m
9. Mount Markham (Queen Elizabeth Range)	4,350m
10. Mount Bell (Queen Alexandra Range)	4,303m

In some cases these heights are based on surveys of variable accuracy



Antarctic Peninsula mountains



Geographical Statistics

Other notable mountains

- | | |
|---|--------|
| 1. Mount Hope (highest mountain in British Antarctic Territory) | 3,239m |
| 2. Mount Erebus (Ross Island, highest offshore mountain) | 3,794m |
| 3. Mount Sidley (highest peak not in Ellsworth or Transantarctic Mountains) | 4,285m |

Ice Domes

	<i>Coordinates</i>	<i>Height</i>	<i>Bed elevation</i>	<i>Potential ice depth</i>
1. Dome A	81°S, 77°E	4,059m	1,495m	2,564m
2. Dome C	75°S, 125°E	3,213m	224m	2,989m
3. Dome Fuji (Valkyrie)	77°S, 38°E	3,786m	438m	3,348m
4. Vostok station	79°S, 107°E	3,477m	-271m	3,784m
5. South Pole	90°S, 0°E	2,835m	-56m	2,891m

ICE

Mean thickness	1,948m
Mean thickness of grounded ice	2,148m
Maximum thickness	4,757m
Mean bed elevation	74m
Lowest bed elevation (Byrd Glacier)	-2,973m

Ice volume

Total of ice sheets including ice shelves	27.17 million km ³
Grounded ice sheets	26.42 million km ³
Ice shelves	0.75 million km ³

SOUTHERN OCEAN

Area below the Polar Front	31.8 million km ² (~8.8% of the world's ocean area)
Volume below the Polar Front	115.5 million km ³ (8.7% of the world's ocean volume)

DISTANCES

Cambridge (UK) to Rothera Research Station	14,435km
Cambridge (UK) to Halley VI Research Station	14,306km
Rothera Research Station to South Pole	2,492km
Halley VI Research Station to South Pole	1,603km



Antarctic Factsheet

Geographical Statistics

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An overview map of Antarctica south of 60°S

DOCUMENT SOURCES

- Antarctic Digital Database (ADD), version 7.1.1
- Bedmap 3
- REMA v2
- General Bathymetric Chart of the Oceans
- Mountain heights from a variety of sources including ADD, USGS maps, BAS and Omega Foundation survey points



**British
Antarctic Survey**

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