Antarctic Ice Sheet

Surface ice velocity, drainage divides and place names

Surface ice velocity [m/yr]
10 100 1000

Ocean depth [m]
0 1000 2000 3000 4000

- Ice core
- Station / settlement
- Dome
- Drainage divide
- Ice margin
- Grounding line
- 500 m surface contours
- Sea-ice edge, September
- Sea-ice edge, February

Antarctic Ice Sheet in numbers

	All	East	West	Pen.
Ice area [10^6 km^2]	**13.85**	10.57	2.85	0.43
floating [10^6 km^2]	**1.55**	0.74	0.69	0.12
Ice volume [10^6 km^3]	**26.92**	22.91	3.81	0.20
Max. thickness [m]	**5015**	5015	4358	2620
Sea-level equiv. [m]	**58.1**	52.4	5.4	0.3

East, West, Pen.(insula): IMBIE 2 regions, with ice shelves and islands given to the nearest region

Interactive map:
fesmc.github.io/cryosphere-maps

Data: bed and surface topography from BedMachine Antarctica v4 (Morlighem et al., 2020); surface ice velocity from MEaSUREs InSAR v2 (Rignot et al., 2011); drainage basins from IMBIE 2 (Rignot & Mouginot); median sea-ice edge 1981–2010 from the Sea Ice Index v4 (Fetterer et al., 2017); place names from the SCAR Composite Gazetteer of Antarctica. Key numbers computed on the map grid; sea-level equivalent of the ice above flotation. Polar stereographic projection (71°S, 0°E).

Jutulstraumen
Fimbul Ice Shelf
Riiser-Larsen Ice Shelf
DRONNING MAUD LAND
EDML (Kohnen)
Shirase Glacier
Weddell Sea
Brunt Ice Shelf
ENDERBY LAND
Larsen B Ice Shelf
GRAHAM LAND
COATS LAND
Larsen C Ice Shelf
Dome F (Fuji)
Recovery Glacier
Filchner Ice Shelf
Slessor Glacier
PALMER LAND
MAC. ROBERTSON LAND
Prince Charles Mountains
Berkner Island
Recovery Subglacial Lakes
Alexander Island
Lambert Glacier
Foundation Ice Stream
Amery Ice Shelf
George VI Ice Shelf
Ronne Ice Shelf
Prydz Bay
Wilkins Ice Shelf
Möller Ice Stream
Institute Ice Stream
PRINCESS ELIZABETH LAND
Gamburtsev Subglacial Mountains
West Ice Shelf
Rutford Ice Stream
Dome A (Argus)
Bellingshausen Sea
Ellsworth Mountains
Amundsen-Scott South Pole Station
WILHELM II LAND
Ridge B (Dome B)
Abbot Ice Shelf
QUEEN MARY LAND
Bentley Subglacial Trench
Vostok Station
Lake Vostok
Pine Island Glacier
Denman Glacier
WAIS Divide
Thwaites Glacier
Byrd Station
Shackleton Ice Shelf
Transantarctic Mountains
Whillans Ice Stream
Kamb Ice Stream
Amundsen Sea
Aurora Subglacial Basin
SIPLE COAST
MARIE BYRD LAND
Dome C
Ross Ice Shelf
Beardmore Glacier
Byrd Glacier
Roosevelt Island
WILKES LAND
Totten Ice Shelf
Getz Ice Shelf
Totten Glacier
Wilkes Subglacial Basin
Moscow University Ice Shelf
Sulzberger Ice Shelf
Drygalski Ice Tongue
David Glacier
VICTORIA LAND
Ross Sea
ADÉLIE LAND
Southern Ocean
GEORGE V LAND

0 1000 km

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