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SCHEMATIC GEOLOGICAL MAP OF ANTARCTICA 1991

COMPILED BY R. J. TINGEY

SCALE 1 : 10 000 000

0 200 400 600 800 1000 Kilometres

Polar stereographic projection with scale in latitude 71°

Compiled 1985-86 by R. J. Tingey, BMR Cartography by R. Swoboda, J. Gallagher, BMR
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Base map compiled by the Bureau of Mineral Resources from 1 : 10 000 000 scale publication supplied by the Australian Surveying and Land Information Group, Department of Administrative Services and amendments received from the British Antarctic Survey.

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SOUTHERN OCEAN

WEDDELL SEA

HAAKON VII SEA

ANTARCTIC PENINSULA

DRONNING MAUD LAND

ENDERBY LAND

KEMP LAND

MAC. ROBERTSON LAND

PRINCESS ELIZABETH LAND

WILHELM II LAND

QUEEN MARY LAND

DAVIS SEA

WILKES LAND

TERRE ADÉLIE

GEORGE V LAND

OATES LAND

DUMONT D'URVILLE SEA

ROSS SEA

ROSS ICE SHELF

RONNE ICE SHELF

FILCHNER ICE SHELF

AMERY ICE SHELF

BELLINGSHAUSEN SEA

AMUNDSEN SEA

COATS LAND

ELLSWORTH LAND

BYRD LAND

MARIE BYRD LAND

TRANSANTARCTIC MOUNTAINS

SOUTH SHETLAND ISLANDS

SOUTH ORKNEY ISLANDS

ELEPHANT ISLAND

ADELAIDE ISLAND

ALEXANDER ISLAND

THURSTON ISLAND

PETER I ØY

BALLENY ISLANDS

SIPLE ISLAND

ROSS I

Cainozoic glacigene deposits widely exposed at all levels throughout Transantarctic Mountains

Subglacial extent of Dufek intrusion

Robertson Bay terrane

Czs Cainozoic sedimentary rocks

Czv Cainozoic volcanic rocks and minor intrusives; includes active volcanoes

Ms Mesozoic sedimentary rocks

Mv Mesozoic volcanic rocks

Mvt Early Jurassic tholeiitic volcanics including Ferrar Group Volcanics

Mg Mesozoic granitoids

Mm Mesozoic metamorphic rocks

Jurassic mafic intrusive rocks — Ferrar Group

Ji Dufek Intrusion — Pensacola Mountains

Phanerozoic alkaline intrusive rocks — Ordovician to Cainozoic

B Beacon Supergroup — Devonian, Permian, Triassic continental sedimentary rocks

Pz Late Palaeozoic sedimentary strata — Antarctic Peninsula

Pzv Devonian volcanics

Pzg$_C$ Carboniferous granitoids

Pzg$_D$ Devonian granitoids

Pzg Cambrian and Ordovician granitoids

Pze Early Palaeozoic sedimentary and volcanic rocks (Pze - metamorphosed examples)

Es Proterozoic metasediments — low metamorphic grade

Ev Proterozoic volcanic rocks

Eg Proterozoic granitoids including charnockites

Em Proterozoic high grade metamorphics — mostly about 1000 Ma

Proterozoic mafic intrusives and dyke swarms

Ei (A) Proterozoic mafic intrusives — gabbro and (A) anorthosite complexes

Aa Archaean amphibolite facies metamorphic rocks

Ai Archaean granitoids

Ag Archaean granulite facies metamorphics

The order in the legend reflects the dominant age relationships as determined from geochronology and field observations

This map is compiled from larger scale sources and in complex areas it is not possible to show all rock units at this scale

Coastline definite

approximate

3655 Height of rock in metres

2500 Contour on ice in metres, approximate

1000 Bathymetric contour in metres, approximate
Shown only to 2000 metres maximum depth

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FIRST EDITION 1991