

LAND RESOURCES

Continents shown by shape and color of symbol

North America	South America	Europe	Asia	Africa	Australia	Antarctica
Green	Light Green	Yellow	Orange	Red	Pink	White

Land geology—Colors and patterns show the essential nature of the rocks. Geologic ages are indicated, where feasible, by letter keys in boxes in the Classification Diagram.

Surface deposits (Not shown on Australian continent)

- Quaternary
- Recent
- Recent to Holocene
- Recent to Pleistocene
- Recent to Pliocene
- Recent to Miocene
- Recent to Oligocene
- Recent to Eocene
- Recent to Paleocene
- Recent to Paleogene
- Recent to Mesozoic
- Recent to Paleozoic
- Recent to Precambrian

Volcanic rocks (Recent and Mesozoic)—Primarily historical and Quaternary. Felsic (or intermediate to mafic) (F); mafic (M); and ultramafic (U).

Basal and marginal deposits (Phanerozoic)

- Recent to Quaternary
- Recent to Tertiary
- Recent to Cretaceous
- Recent to Jurassic
- Recent to Permian
- Recent to Carboniferous
- Recent to Devonian
- Recent to Silurian
- Recent to Ordovician
- Recent to Cambrian
- Recent to Precambrian

Platform cover rocks (Phanerozoic)

- Recent to Quaternary
- Recent to Tertiary
- Recent to Cretaceous
- Recent to Jurassic
- Recent to Permian
- Recent to Carboniferous
- Recent to Devonian
- Recent to Silurian
- Recent to Ordovician
- Recent to Cambrian
- Recent to Precambrian

Deformed sedimentary and volcanic rocks (Phanerozoic, chiefly Paleozoic)—In general, as metamorphosed.

- Recent to Quaternary
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- Recent to Precambrian

Mesozoic igneous (Late Proterozoic and Phanerozoic)

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- Recent to Tertiary
- Recent to Cretaceous
- Recent to Jurassic
- Recent to Permian
- Recent to Carboniferous
- Recent to Devonian
- Recent to Silurian
- Recent to Ordovician
- Recent to Cambrian
- Recent to Precambrian

Sedimentary, metamorphic, and igneous rocks (Proterozoic)

- Recent to Quaternary
- Recent to Tertiary
- Recent to Cretaceous
- Recent to Jurassic
- Recent to Permian
- Recent to Carboniferous
- Recent to Devonian
- Recent to Silurian
- Recent to Ordovician
- Recent to Cambrian
- Recent to Precambrian

Plutonic, volcanic, and sedimentary rocks (Archaean and Early Proterozoic)

- Recent to Quaternary
- Recent to Tertiary
- Recent to Cretaceous
- Recent to Jurassic
- Recent to Permian
- Recent to Carboniferous
- Recent to Devonian
- Recent to Silurian
- Recent to Ordovician
- Recent to Cambrian
- Recent to Precambrian

Intrusive igneous rocks (Phanerozoic)—Felsic (F); intermediate to mafic (M); and ultramafic (U).

Ultramafic rocks

- Recent to Quaternary
- Recent to Tertiary
- Recent to Cretaceous
- Recent to Jurassic
- Recent to Permian
- Recent to Carboniferous
- Recent to Devonian
- Recent to Silurian
- Recent to Ordovician
- Recent to Cambrian
- Recent to Precambrian

Phanerozoic indicates Cambrian and later time

Thrusting

Fault

Age of information—Geologic age of information shown by color. LSA on some deposits.

AUSTRALIA AND NEW ZEALAND

- Archaean
- Early Proterozoic
- Middle Proterozoic
- Late Proterozoic
- Early Cambrian
- Late Cambrian
- Ordovician
- Silurian
- Devonian
- Carboniferous
- Permian
- Triassic
- Jurassic
- Cretaceous
- Tertiary
- Quaternary

SOUTH AMERICA

- Paleozoic and later
- Late Paleozoic
- Tertiary
- Late Tertiary and later
- Early Cretaceous
- Late Cretaceous
- Early Tertiary
- Late Tertiary
- Quaternary

Depth types—Shown by ticks on basin symbol

- Shallow
- Intermediate
- Deep
- Very deep

Other symbols

- Shallow
- Intermediate
- Deep
- Very deep

MINERAL-RESOURCES MAP OF THE CIRCUM-PACIFIC REGION

ANTARCTIC SHEET

IAN W. D. DALZIEL, CHAIR, ANTARCTIC PANEL

Complexes and Principal Contributions

LAND RESOURCES

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SEAFLOOR RESOURCES

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MINERAL-RESOURCES MAP SERIES

Maps of the Mineral Resources Map Series show both land-based and seafloor deposits and resources of metallic and non-metallic minerals. Land-based deposits are shown without regard to mineral application; therefore, some have been largely unexplored. The map does not necessarily reflect recognition of the political status of an area by the United States or the preparation and publication of these maps.

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INDEX TO MAP SHEETS

CIRCUM-PACIFIC MAPS

This map is one in a series of maps covering the Pacific, Antarctic, and Arctic regions. The maps have been compiled as part of the Circum-Pacific Map Project, a cooperative international effort to identify and assess mineral and energy resources to such phenomena as geology, tectonics, and crustal structure. The project is one of the activities of the Circum-Pacific Council for Energy and Mineral Resources.

The map project is made up of six sheets of Earth scientists from countries in the Pacific region who contribute to the project. The project is a cooperative effort of the United States, Australia, New Zealand, and the Antarctic Peninsula. The project is a cooperative effort of the United States, Australia, New Zealand, and the Antarctic Peninsula.

MAP PRODUCTION BY U.S. GEOLOGICAL SURVEY

Compilation coordinated by George Gray
 Cartography by Frank J. Silliman, Jr., Anne L. Carlson, and Thomas R. Swadlow

Scale: 1:100,000

Projection: Lambert Azimuthal Equal Area Projection
 (Map Center Point: 70° S, 180° W)

1998

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Volcanic rocks (Recent and Mesozoic)—Primarily historical and Quaternary. Felsic (or intermediate to mafic) (F); mafic (M); and ultramafic (U).

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Intrusive igneous rocks (Phanerozoic)—Felsic (F); intermediate to mafic (M); and ultramafic (U).

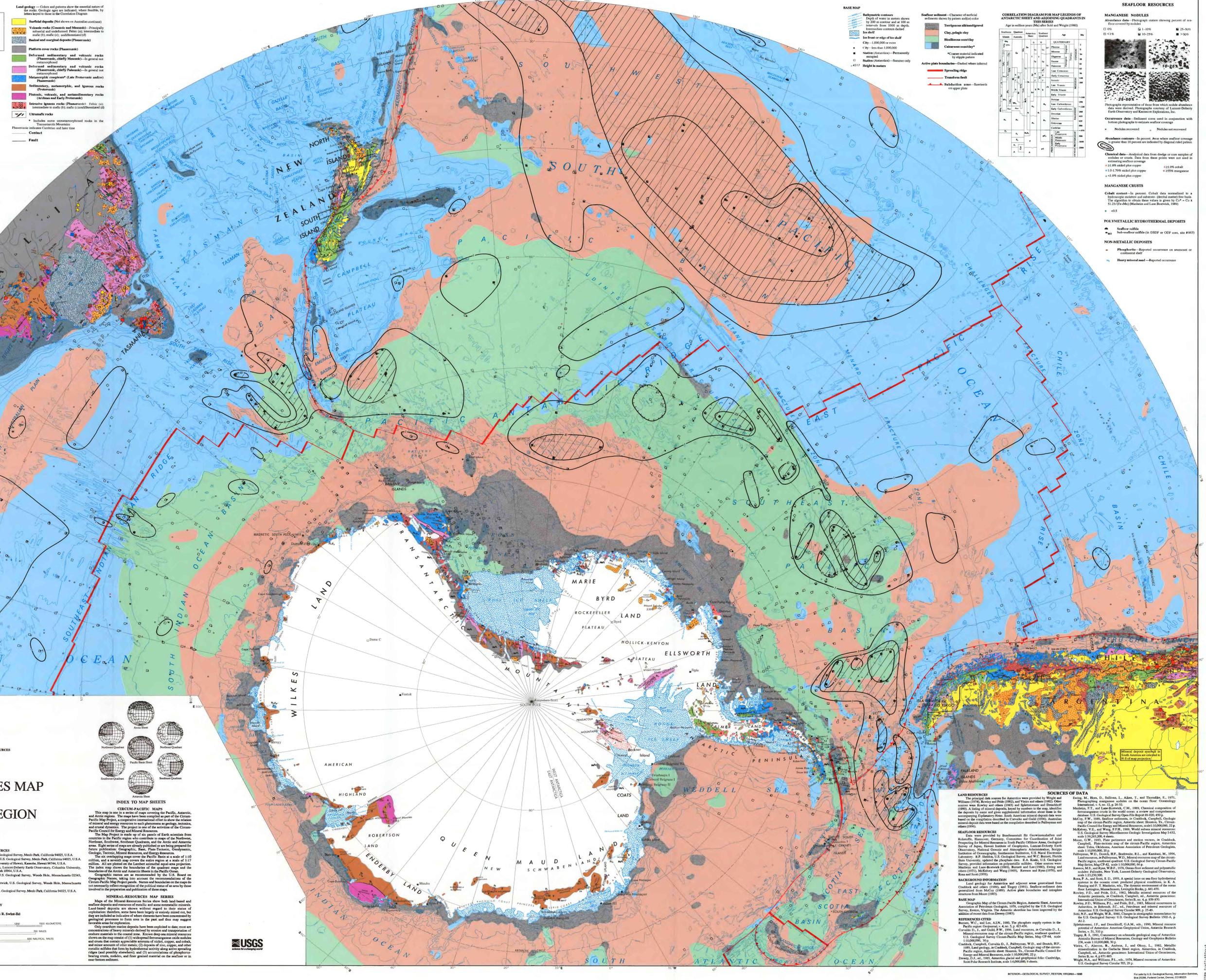
Ultramafic rocks

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Fault



BASE MAP

Depth of water in meters shown by contours at 200 m intervals and at 100 m intervals from 1000 m depth. Bathymetric contours shown by dashed lines.

City—1,000,000 or more
 City—100,000 or more
 City—less than 100,000
 Station (Antarctica)—Permanently occupied
 Station (Antarctica)—Summer only
 Height in meters

Seafloor resources—Character of seafloor resources shown by pattern and color

Tertiary and Quaternary

Clay, pebbly clay

Sedimentary

Chert

Active plate boundaries—Indicated where indicated

Transform fault

Subduction zone—Seafloor on upper plate

CORRELATION DIAGRAM FOR MAP LEGEND OF ANTARCTIC SHEET AND ADJACENT QUADRANTS IN THE SERIES

Age in million years (Ma) after Sea Level (SL) (1985)

Age (Ma)	Antarctica	South America	Australia	Asia	North America	Europe	Africa	South America	Antarctica
0	Quaternary								
1-2	Recent								
2-5	Recent to Holocene								
5-10	Recent to Pleistocene								
10-20	Recent to Pliocene								
20-30	Recent to Miocene								
30-40	Recent to Oligocene								
40-50	Recent to Eocene								
50-60	Recent to Paleocene								
60-70	Recent to Paleogene								
70-80	Recent to Mesozoic								
80-90	Recent to Paleozoic								
90-100	Recent to Precambrian								

MANGANESE NODULES

Abundance data—Photograph shows percent of area covered by nodules

- 0-10%
- 10-25%
- 25-50%
- >50%

Occurrence data—Indicated cores used in conjunction with bottom photographs to determine occurrence

- Nodules recovered
- Nodules not recovered

Checked data—Analytical data from dredge or core samples of nodules or crusts. Data from these points were not used in occurrence data.

- +2.0% nickel plus copper
- +1.0% nickel plus copper
- +0.05% nickel plus copper

MANGANESE CRUSTS

Crusts—In present. Crusts data normalized to a hydrographic station and substrate. (Depth, station, two fields. The age of the crust is shown in the field. Crusts are: Cr-1, Cr-2, Cr-3, Cr-4, Cr-5, Cr-6, Cr-7, Cr-8, Cr-9, Cr-10, Cr-11, Cr-12, Cr-13, Cr-14, Cr-15, Cr-16, Cr-17, Cr-18, Cr-19, Cr-20, Cr-21, Cr-22, Cr-23, Cr-24, Cr-25, Cr-26, Cr-27, Cr-28, Cr-29, Cr-30, Cr-31, Cr-32, Cr-33, Cr-34, Cr-35, Cr-36, Cr-37, Cr-38, Cr-39, Cr-40, Cr-41, Cr-42, Cr-43, Cr-44, Cr-45, Cr-46, Cr-47, Cr-48, Cr-49, Cr-50, Cr-51, Cr-52, Cr-53, Cr-54, Cr-55, Cr-56, Cr-57, Cr-58, Cr-59, Cr-60, Cr-61, Cr-62, Cr-63, Cr-64, Cr-65, Cr-66, Cr-67, Cr-68, Cr-69, Cr-70, Cr-71, Cr-72, Cr-73, Cr-74, Cr-75, Cr-76, Cr-77, Cr-78, Cr-79, Cr-80, Cr-81, Cr-82, Cr-83, Cr-84, Cr-85, Cr-86, Cr-87, Cr-88, Cr-89, Cr-90, Cr-91, Cr-92, Cr-93, Cr-94, Cr-95, Cr-96, Cr-97, Cr-98, Cr-99, Cr-100, Cr-101, Cr-102, Cr-103, Cr-104, Cr-105, Cr-106, Cr-107, Cr-108, Cr-109, Cr-110, Cr-111, Cr-112, Cr-113, Cr-114, Cr-115, Cr-116, Cr-117, Cr-118, Cr-119, Cr-120, Cr-121, Cr-122, Cr-123, Cr-124, Cr-125, Cr-126, Cr-127, Cr-128, Cr-129, Cr-130, Cr-131, Cr-132, Cr-133, Cr-134, Cr-135, Cr-136, Cr-137, Cr-138, Cr-139, Cr-140, Cr-141, Cr-142, Cr-143, Cr-144, Cr-145, Cr-146, Cr-147, Cr-148, Cr-149, Cr-150, Cr-151, Cr-152, Cr-153, Cr-154, Cr-155, Cr-156, Cr-157, Cr-158, Cr-159, Cr-160, Cr-161, Cr-162, Cr-163, Cr-164, Cr-165, Cr-166, Cr-167, Cr-168, Cr-169, Cr-170, Cr-171, Cr-172, Cr-173, Cr-174, Cr-175, Cr-176, Cr-177, Cr-178, Cr-179, Cr-180, Cr-181, Cr-182, Cr-183, Cr-184, Cr-185, Cr-186, Cr-187, Cr-188, Cr-189, Cr-190, Cr-191, Cr-192, Cr-193, Cr-194, Cr-195, Cr-196, Cr-197, Cr-198, Cr-199, Cr-200, Cr-201, Cr-202, Cr-203, Cr-204, Cr-205, Cr-206, Cr-207, Cr-208, Cr-209, Cr-210, Cr-211, Cr-212, Cr-213, Cr-214, Cr-215, Cr-216, Cr-217, Cr-218, Cr-219, Cr-220, Cr-221, Cr-222, Cr-223, Cr-224, Cr-225, Cr-226, Cr-227, Cr-228, Cr-229, Cr-230, Cr-231, Cr-232, Cr-233, Cr-234, Cr-235, Cr-236, Cr-237, Cr-238, Cr-239, Cr-240, Cr-241, Cr-242, Cr-243, Cr-244, Cr-245, Cr-246, Cr-247, Cr-248, Cr-249, Cr-250, Cr-251, Cr-252, Cr-253, Cr-254, Cr-255, Cr-256, Cr-257, Cr-258, Cr-259, Cr-260, Cr-261, Cr-262, Cr-26