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Regional Synthesis of Marine Geologic and Geophysical Data from Offshore Circum-Antarctic

Preliminary maps of bathymetry, free-air gravity, magnetic anomalies, sediment thickness, and crustal structure have been compiled from all available data sources for the Circum-Antarctic region. The maps cover the region from the Antarctic continent to lat. 30°S, and have been produced on a Polar Stereographic Projection in common grid sectors and at a nominal scale of 1:8 million.

Because certain sectors of the offshore Antarctic region are sparsely surveyed, SEASAT data have been used to provide more complete gravity coverage. The 5-min X 5-min DBDB bathymetric data file compiled by NAVOCEANO has been used to create a computer-generated bathymetric map for the region. This bathymetric map has been updated using data collected from recent cruises. The maps will be presented at reduced scale with focus given to those sectors that incorporate the Pacific regions.

The overall compilation is the result of data input and collaboration of various scientists from several countries, most notably, Federal Republic of Germany, France, United Kingdom, New Zealand, Australia, Norway, and Japan.