

# Antarctic Marine Geology Research Facility, 1981–1982

DENNIS S. CASSIDY

Department of Geology  
Florida State University  
Tallahassee, Florida 32306

Curatorial activities at Florida State University's (FSU) Antarctic Marine Geology Research Facility and Core Library during the year 1 June 1981 to 31 May 1982 have included the distribution of samples, the receipt and processing of new materials, and core-describing.

Sample distribution was as follows:

*Eltanin*: 2,746 samples from 306 different piston cores collected aboard 30 of the 47 coring cruises, 9 samples from 9 trigger cores of 7 cruises, and 2 samples from 2 Phleger cores of 2 cruises. Also distributed were 2 samples from camera-Campbell grab recovery stations of 2 cruises.

*Islas Orcadas*: 471 samples from 62 individual piston cores representing each of the five coring cruises (0775, 1176, 1277, 1578, and 1678) and 27 samples from 27 trigger cores of these cruises. (As of 31 May 1982, 21,634 samples had been distributed from the 459 piston, trigger, and Phleger cores recovered aboard ARA *Islas Orcadas*. A summary of *Islas Orcadas* coring appears in Cassidy 1980).

*International Weddell Sea Oceanographic Expedition (IWSOE)*: 157 samples from 38 piston cores, 14 trigger cores, and 16 Phleger cores retrieved aboard the 1968, 1969, and 1970 IWSOE cruises of USCGC *Glacier*.

*USARP 1975 (USCGC Burton Island)*: 1 sample from a bottom grab recovered in the eastern Amundsen Sea.

*USARP 1976 (USCGC Glacier)*: 27 samples from 8 piston cores collected in the Ross Sea.

*USARP 1978 (USCGC Glacier)*: 36 samples from 10 piston cores collected in the Ross Sea.

*USARP 1979 (USCGC Glacier)*: 102 samples from 35 piston cores and 17 samples from 17 bottom grabs, all collected off the Adélie and George V Coasts.

*USARP 1980 (USCGC Glacier)*: 675 samples from 160 piston cores and 20 bottom grabs retrieved from the antarctic coastal margin in the northwestern and southwestern Ross Sea.

*USARP 1981 (USCGC Glacier)*: 95 samples from 12 piston cores recovered in the Amundsen Sea (8 cores) and Bransfield Strait (4 cores).

The 4,367 samples distributed, representing 44 cruises of four vessels, were received by 26 investigators representing 17 institutions in Australia, France, India, the Union of Soviet Socialist Republics, and the United States. (Not included in the sample distribution totals are 46 one-half sections of piston cores shipped on loan to a principal investigator and several hundred small samples that were removed from the cores for the preparation of smear slides used in core-describing.)

The wide geographic extent (figure) and variety of project materials sampled indicate that research interest in these materials remains high. An analysis of inventory records reveals that there were more separate requests this year than in past years. Also, the ratio of the total number of different cores sampled this year (736) to the total number of samples distributed from

them (4,367) is greater than that of any previous year, and greater by a factor of 2.2 than the average value of this ratio for all years. These statistics are particularly useful in evaluating sampling effort during 1981–82.

The acquisition of new materials includes the June 1982 receipt of 311 meters of piston and trigger cores (167 cores) and 149 grab samples recovered at 205 ship stations of USCGC *Glacier* in waters adjacent to the northern Antarctic Peninsula and the South Shetland Islands. These specimens, collected during 1982 by John B. Anderson (Rice University), Paul F. Ciesielski (University of Georgia), and Peter N. Webb (Ohio State University), will be processed in preparation for a site visit by the principal investigator (Anderson).

Also received were approximately 75 kilograms of rocks collected by E. Imre Friedmann (FSU, Department of Biology) in the antarctic dry valleys.

Core-describing was completed of the 328 meters of piston and trigger core sediments retrieved aboard ARA *Islas Orcadas* in the South Atlantic sector of the southern ocean. Descriptions of these cores and their associated bag samples appear in Kaharoeddin and others (1982). This volume, the fifth and final volume in the series of sediment descriptions (Cassidy et al. 1977; Kaharoeddin 1978; Kaharoeddin et al. 1979, 1980) for materials collected aboard the five multidisciplinary cruises of this vessel from which cores were received at the FSU facility, completes the *Islas Orcadas* phase of the curatorial program.

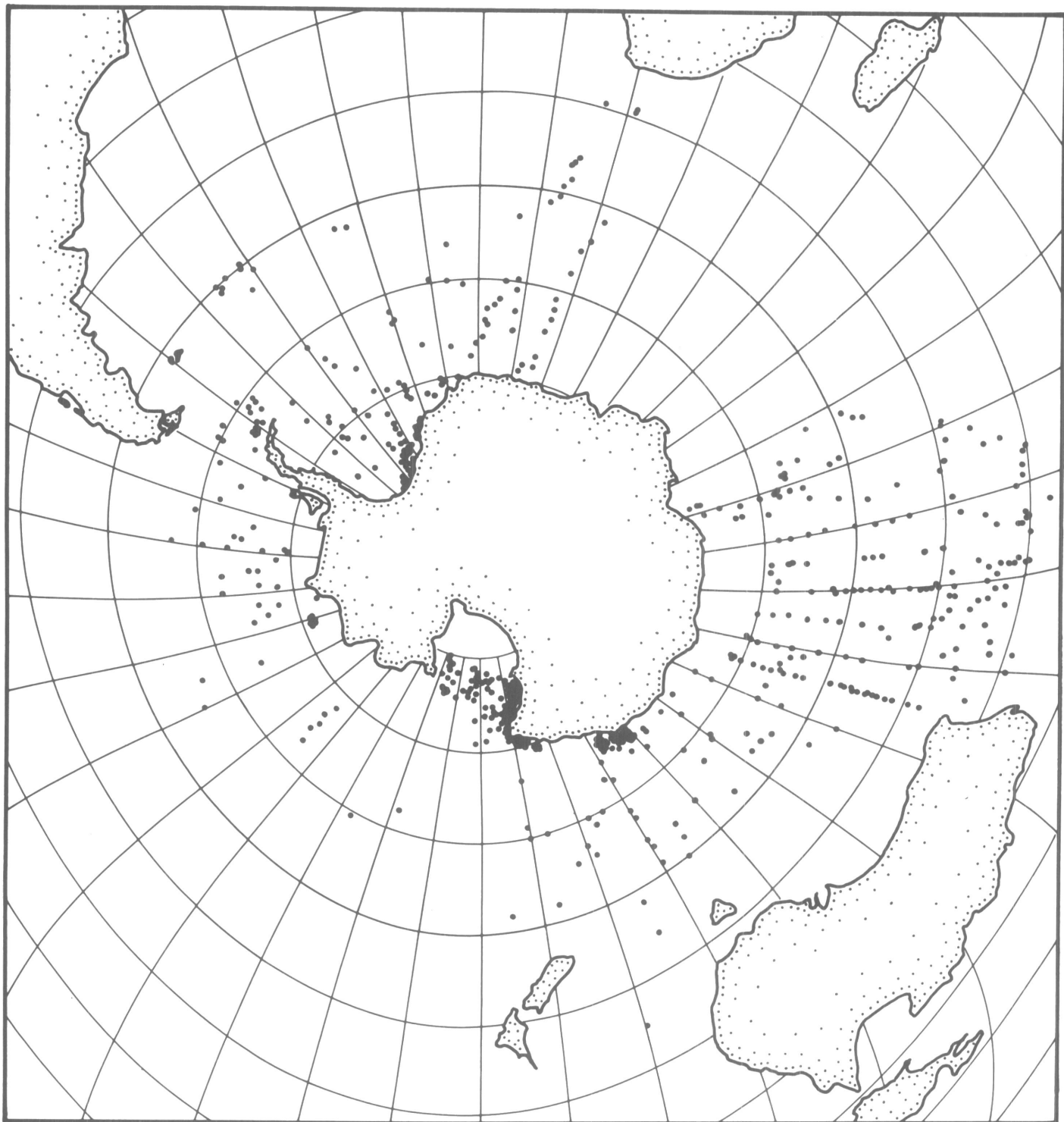
Active participation by staff of the Antarctic Research Facility in core-describing projects of other institutions contributed to the publication of two volumes of core descriptions (Anderson et al. 1981; Kellogg et al. 1981) for sediments recovered during the IWSOE and USARP 1976, 1978, and 1979 cruises of USCGC *Glacier*.

In progress is core-describing of the approximately 370 meters of marine core sediments recovered during USARP 1980 and 1981. These descriptions will be published as issues of the continuing series of core description volumes produced by staff of the facility.

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## References

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**Geographic distribution of the 736 piston, trigger, and Phleger cores and bottom grabs from which samples were distributed during 1981–82. (Note: Not all station locations are shown as discrete points due to coring density in some areas.)**

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