

sessions, both of which took place in Adelaide, Australia, in August.

In addition to these activities and many others in which Board members took part, the Board published its 24th annual report to SCAR on U.S. antarctic research activities and its 13th report on earth sciences investigations in the U.S. Antarctic Research Program. The latter is a special project of the SCAR Working Group on Geology, with U.S. member David H. Elliot taking the lead in surveying the U.S. research community for input to this annual catalog. U.S. representatives to other SCAR Working Groups have agreed to explore with their respective groups the possibility of issuing similar listings of research and related publications.

The Board devoted much of its fall 1982 meeting to consideration and preparation of a U.S. response to a set of recommendations to Antarctic Treaty Nations from SCAR XVII, which appeared in SCAR Circular 464. These recommendations were

directed to a number of publication and information-exchange activities, logistic matters, the amount of national contributions, Sites of Special Scientific Interest, and related concerns. During 1983, the Board will begin developing a U.S. position on matters to come before SCAR XVIII in 1984.

The work described in this report was supported by two National Science Foundation grants (DPP 82-07098R and DPP 79-27065), with contributions from the National Oceanic and Atmospheric Administration, the Office of Naval Research, and the Department of Energy, and by grants from the Department of Defense, the U.S. Geological Survey, and the Andrew W. Mellon Foundation. Additional information is available in the *Polar Research Board Annual Report 1982 and Future Plans*, available from the Polar Research Board.

Antarctic marine geology research facility and core library, 1982–1983

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A chronicle of the year's activities (1 June 1982 to 31 May 1983) by staff of the Florida State University's (FSU) Antarctic Marine Geology Research Facility and Core Library is primarily a record of the distribution of samples, the receipt and processing of new materials, and core-describing.

During this period, a total of 2,161 samples were distributed to 17 investigators representing 12 institutions in Japan, Sweden, and the United States. Distribution was made on the basis of 33 separate requests, and samples were taken from 349 individual piston, trigger, Phleger, and drill cores and grabbed, trawled, and dredged specimens. The following specifies sample sources.

USNS Eltanin: 898 samples from 124 piston cores collected aboard 27 of the 47 coring cruises of this vessel; 24 samples from 24 trigger cores of one cruise and 21 samples from four Campbell grabs and four Blake trawls of two cruises.

ARA Islas Orcadas: 542 samples from 62 piston cores representing each of the five coring cruises and four samples from four trigger cores of one cruise.

International Weddell Sea Oceanographic Expedition (IWSOE): 472 samples from 12 piston cores and two Phleger cores retrieved aboard the 1968, 1969, and 1970 IWSOE cruises of *USCGC Glacier*.

Operation Deep Freeze 1980 (USCGC Glacier): 12 samples from one piston core recovered in the Ross Sea.

Operation Deep Freeze 1981 (USCGC Glacier): 8 samples from two piston cores retrieved from the eastern Amundsen Sea.

Operation Deep Freeze 1982 (USCGC Glacier): 73 samples from 72 piston cores and 26 samples from 26 bottom grabs recovered from a variety of locations off both coasts of the northern Antarctic Peninsula.

Ross Ice Shelf Project (RISP): 49 samples were removed from 8 of the 47 gravity cores recovered through the 1978–1979 RISP J-9 drill hole.

Dry Valley Drilling Project (DVDP): 40 samples were distributed from frozen drill cores of 4 holes (DVDP 4A, 12, 13, and 14).

Inventory records indicate that a total of 179,811 samples have been removed, recorded, and distributed from the FSU collection since the beginning of the program in 1962. Of these, the majority (169,222, or 94 percent) are from *USNS Eltanin*/*ARA Islas Orcadas* cores and dredge hauls. The remainder (10,589 samples) are from DVDP, RISP, IWSOE, Deep Freeze, and arctic core sediments and grab samples. (Note: These totals do not include: (1) the removal of minuscule amounts of sediment used in the preparation of smear slides required for core-describing; (2) similar samples removed for reconnaissance work by visiting investigators, or (3) samples removed prior to 1962 from any of the early Deep Freeze cores received at FSU by a resident principal investigator. Samples in these categories are estimated to number about 16,000—an average of one sample per meter of core housed at the facility.)

A major effort of the year's curatorial program involved the transfer, on loan, of more than 1 metric ton of sediment to project scientists at Rice University for on-site analyses and whole-core X-radiography. The shipment included one-half of each core section of all cores recovered during Operation Deep Freeze 1981 (eastern Amundsen Sea and Bransfield Strait) and 1982 (northern Antarctic Peninsula) aboard *USCGC Glacier*, as well as several piston cores recovered aboard cruise 1678 of *ARA Islas Orcadas*. (Archival core halves remain in storage at the facility; the distributed core halves will be returned to storage approximately 1 year from the date of transfer. Prior to transfer, each core half was inspected for macroscopically visible components such as macrofossils, nodules, sedimentary clasts, and rocks. These features were recorded for inclusion in the final sediment descriptions, currently in progress.)

The acquisition of new specimens includes the May 1983 receipt of 17 piston cores (22 meters), 37 subcores (15 meters) from box cores, and 20 grab samples, all of which were recovered by John B. Anderson (Rice University), and David J. DeMaster and Charles A. Nittrouer (North Carolina State University) aboard USCGC *Glacier* in the Ross Sea-Sulzberger Bay area during Operation Deep Freeze 1983.

Also received during May were approximately 120 meters of frozen AX drill core from six holes in southern Victoria Land's eastern Taylor Valley (ETV). These sediments, recovered by Donald P. Elston's (U.S. Geological Survey) field team, supplement the 1,147 meters of DVDP (1,100 meters; Cassidy 1981) and ETV (47 meters; Elston, Robinson, and Bressler 1981) drill core shipped previously to FSU.

Transferred to the facility from the University of Connecticut were approximately 70 kilograms of rocks collected during the 1968 and 1969 IWSOE cruises of USCGC *Glacier*. Retrieved at 33 ship stations in the Weddell Sea, these specimens were recovered using a Van Veen grab sampler, a small biological trawl, an anchor dredge, and an epibenthic sled (Dale 1968; Rankin, Clark, and Biernbaum 1969).

Specimens returned to the collection include 141 frozen, whole-core segments (150 kilograms) of DVDP drill core that were distributed in 1976 to the University of Wyoming for thermal conductivity measurements (Bucher 1980).

Core-describing was completed of the 21.28 meters of piston core (12 cores) recovered aboard USCGC *Glacier* during Operation Deep Freeze 1981, as was the printing and distribution of a volume of core descriptions for these sediments (Kaharoeddin et al. 1983). This volume, the twelfth in a series of core description volumes produced by staff of the Antarctic Research Facility (Goodell 1964, 1965, 1968; Frakes 1971, 1973; Cassidy et al. 1977a, 1977b; Kaharoeddin 1978; Kaharoeddin et al. 1979, 1980, 1982), supplements earlier volumes of Deep Freeze sediment descriptions prepared by Anderson and others (1981) and Kellogg and others (1981).

The next volume in this series will present the descriptions of sediments recovered aboard USCGC *Glacier* during Operation Deep Freeze 1982. These sediments comprise 119 grab samples and 315 meters of piston and trigger cores, of which approximately 60 percent have been described. Upon completion, core-describing is planned for Deep Freeze 1980 (partially described) and 1983 specimens.

Curatorial activities at the Antarctic Research Facility are supported by National Science Foundation contract C-1059.

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