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# MAGNETIC ANOMALIES ON LAND & SEA

IAGA Working Group V-9 Newsletter  
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## ARCTIC MAGNETIC ANOMALY MAP

The Arctic Magnetic Anomaly Map Committee (AMAMC) is an *ad hoc* group organized by IAGA Working Group V-9 at the Exeter '89 meeting to determine the feasibility of preparing the map and, if found to be feasible, to develop a formal plan for producing the map, including its digital data base, as well as making recommendations for a committee to implement the plan.

The first meeting of AMAMC was held at the Spring '90 meeting of the American Geophysical Union in Baltimore. Sixteen scientists, including seven members of AMAMC, met on May 29, 1990. Details of magnetic databases available to the effort were reviewed. The largest gaps in coverage occurred over the U.S.S.R.-side of the Arctic Ocean, and Greenland. It was agreed that, although there may be gaps in coverage, plans for preparing the map should proceed. Also, Jim Heirtzler was asked to document a memorandum of understanding to help coordinate the roles of the various participants in this international undertaking.

The second meeting of AMAMC was held at the Fall '90 meeting of the AGU in San Francisco. Twelve scientists, including four members of the committee, met on December 3, 1990. Items put forth at the meeting included proposed guidelines for the preparation of the map. It was decided to send a copy of these guidelines to all members of AMAMC for their comments. Ron Macnab presented a proposal from the Atlantic Geoscience Center of the Geological Survey of Canada for producing the magnetic anomaly map of the Arctic. Furthermore, it was agreed that the members of AMAMC would be recommended to IAGA for appointment to the implementation committee and that IAGA should add other names as appropriate and appoint the chairman.

Arrangements were also made, courtesy of the U.S. National Academy of Sciences, to have Sergey Matshenkov of the North Branch for Marine Geologic Exploration (SEVMOR-GEOLOGIA) attend the San Francisco meeting to provide details of the U.S.S.R. data sets, which may be available to this effort. Dr. Matshenkov was not able to arrive until shortly after the meeting had been concluded. However, he was interviewed extensively by mem-

bers of AMAMC and others during the AGU meeting and his subsequent visits to the Byrd Polar Research Center and NASA's Goddard Space Flight Center. Basically, it was determined that SEVMOR-GEOLOGIA maintains extensive magnetic anomaly data bases for the Arctic Ocean and that it is willing to contribute whatever it can to this international effort.

In general, since the Exeter meeting, considerable progress has been made towards the production of a magnetic anomaly map for the Arctic. For further information, please contact one of the co-chairmen listed below:

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