

*SCAR WG-GGI project: Topographic database
Status report - XXVI SCAR, Tokyo, July 2000*

A. Antarctic Digital Database (ADD)

ADD Version 2.0 was released on the World Wide Web in July 1998. The web site enabled a wider range of people to access the database than was possible through the CD-ROM distribution used for ADD Version 1.0. Figures for usage since the launch of Version 2.0 in July 1998 are as follows:

	<i>After 20.7.98</i>	<i>1999</i>	<i>Up to 21.6.00</i>	<i>Total</i>
Visitors to the web site:	1872	4725	2517	9114
Number of registrations:	228	578	290	1096
Tiles downloaded:	1348	3559	1693	6600

Users from 54 countries registered at the ADD web site and tiles were downloaded to 41 countries. Such usage compares very favourable with the number of CD-ROMs sold (about 50 copies in 5 years).

At the conclusion of the ADD Version 1.0 project in 1993, the UK Consortium agreed with SCAR that any proceeds from the sale of the CD-ROM should be used to fund further work on the ADD. Sales were low and it was only after five years that sufficient funds had accrued to justify payment to the ADD project. Thus, in addition to the SCAR funds awarded to the ADD project at XXV SCAR (USD 7000), SCAR also paid GBP 9500 to the project from the proceeds of the CD-ROM sales. Both sums of money allowed BAS to employ a member of staff for 9.5 months in 1999, to work only on the preparation of ADD Version 3.0.

The main achievement of the work has been the significant improvement of the data in the contour layer for regions north of 80°S, using a DEM derived mainly from ERS-1 data and ADD Version 1.0. In addition, data omitted from the glacier margin, flowline and rock outcrop layers have been incorporated, as have new ice front locations. Data have been captured at a variety of scales and the whole dataset has been generalized to 1:1 000 000 scale. Further generalization datasets (at 1:5 000 000 and 1:10 000 000 scales) will be prepared after XXVI SCAR. Scale0 and Scale1 datasets, Version 3.0, will be released on the ADD web site in July 2000.

B. International Global Mapping Project

The generalized version of the ADD has provided the basis of the SCAR WG-GGI's submission to the Global Mapping Project. Only selected feature layers present in the ADD were needed for the Global Map: coastline and ice fronts, contours, rock outcrop and moraine (land cover), glacier margins, flowlines and other drainage features, permanent Antarctic stations (population centres), landing facilities for aircraft (transport), and the location of Protected Areas (our contribution to the land use layer). BAS sent the data to the Global Map project, on the behalf of the WG-GGI, on 7 April 2000.