

Report of Current Activities of *POLAND* for 1998-2000

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The following *Polish* organisations / institutes have developed working programmes to conduct research or operational work in the Antarctic in the field of Geodesy, Geographic Information, Cartography:

Institute of Geodesy and Cartography
Department of Antarctic Biology of the Polish Academy of Sciences

1. FIELD ACTIVITIES

1.1 Geodetic Surveys made by the Institute of Geodesy and Cartography and Department of Antarctic Biology of Polish Academy of Sciences

- a) GPS observation campaigns were carried out in the international framework of the SCAR 95 and SCAR 96 Epoch GPS Campaigns 99 and 2000 (on the main geodetic point of Arctowski Station).
- b) The measurements of local GPS network related to the main point.
- c) The measurements for the actualization (updating) of the 1:50000 map of the Admiralty Bay.
- d) Precise measurements of the boundaries of the Site of Special Scientific Interest No 8 located near the Arctowski Station.
- e) Supporting measurements for mapping the area around the station including the plants extent and the location of various scientific equipment.
- f) Supporting measurements for mapping the area of Turret Point on King George Island and neighbouring Penguin Island.

2. MAPPING ACTIVITIES

2.1 Topographic Mapping

The preliminary map of the vicinity of Arctowski station in scale 1:500 has been elaborated using CorelDRAW 8 program (autor Rafal Pudelko).

The preliminary map of Turret Point and Penguin Island in scale 1:25000 has been elaborated using CorelDRAW 8 program (autor Rafal Pudelko).

2.2 Thematic Mapping

Two Management Plans for SSSI No 8 and SSSI No 34 were elaborated

3. GEOGRAPHIC INFORMATION ACTIVITIES

3.1 Digital Datasets

The existing topographic map of Admiralty Bay in scale 1:50 000 has been digitised

The existing air photos made in 1979 from helicopter using AFA-BAF camera have been described and catalogued

3.2 GIS Established.

The questionnaire about the geodetic data of KGI has been prepared and sent to GGI listserver members.

4. SCIENTIFIC PAPERS PUBLISHED / PRESENTED

Marcin Sekowski
Institute of Geodesy and Cartography, Warsaw, POLAND
Polish geodetic activity in the Antarctic summer season 1998/99
Presented on AGS99

5. PLACE NAMES

- 5.1 87 new place names have been approved by Committee on Polar Research of Polish Academy of Science and submitted to the Composite Gazetteer of Antarctica in the past two years.
- 5.2 13 descriptions of existing names have been corrected and sent to Italy for inclusion in the Composite Gazetteer of Antarctica

6. GROUND CONTROL POINT LIBRARY

- 6.1 The status of Ground Control Point Libraries - what work has been done on ground control points in the past two years.

7. PLANNED ACTIVITIES FOR THE NEXT TWO YEARS

7.1 Geodetic Surveys (Institute of Geodesy and Cartography and Department of Antarctic Biology of Polish Academy of Sciences)

a) GPS observation campaigns will be carried out in the international framework of the SCAR 95 and SCAR 96 Epoch GPS Campaigns at Arctowski station (2001)

7.2 Remote Sensing - nil to report

7.3 Topographic Mapping depends on the staff of the expedition

7.4 Geographic Information Activities

Continuation of KGIS project by Institute of Geodesy and Cartography