REPORT OF CURRENT ACTIVITIES OF POLAND FOR 2000-2002

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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 and Cartography

1. Institute of Geodesy and Cartography, Warsaw, Poland
2. Department of Antarctic Biology, Polish Academy of Sciences Warsaw, Poland
3. University Warmia and Mazury, Olsztyn, Poland
4. Institute of Soil Science and Plant Cultivation (IUNG), Pulawy, Poland

1. FIELD ACTIVITIES

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

a) GPS observation campaigns 2000 and 2001 were carried out in the international framework of the SCAR 95 and SCAR 96 Epoch GPS Campaigns at Arctowski Station.

2. MAPPING ACTIVITIES

2.1 Topographic Mapping (Department of Antarctic Biology, Polish Academy of Sciences and Institute of Soil Science and Plant Cultivation (IUNG), Pulawy, Poland)

The Topographic Map of Site of Special Scientific Interest No.8 (SSSI – 8), King George Island in scale 1:12 500 has been elaborated in 2002. The map was based on local control network and RTK GPS measurements. The Transvers Mercator projection on WGS84 Spheroid with central meridian 57° W were used. The author of the map is Rafal Pudelko from the Institute of Soil Science and Plant Cultivation, Pulawy, Poland sponsored by Department of Antarctic Biology, Polish Academy of Sciences.

3. GEOGRAPHIC INFORMATION ACTIVITIES

3.1 Digital Datasets

From the local control network and RTK GPS measurements the Digital Elevation Model of surroundings of Arctowski Station and SSSI – 8 has been elaborated.

The co-operation with Steffen Vogt - leader of KGIS project has been continued.
4. SCIENTIFIC PAPERS PUBLISHED / PRESENTED


5. **PLACE NAMES**

5.1 About 10 new place names have been introduced to the Topographic Map of Site of Special Scientific Interest No.8 (SSSI – 8), King George Island in scale 1:12 500 and preliminary approved by Department of Antarctic Biology, Polish Academy of Sciences. They will be published and submitted to the Composite Gazetteer of Antarctica soon.

5.2 Some of the place names already introduced to Composite Gazetteer of Antarctica were corrected by prof. K. Birkenmajer

6. **GROUND CONTROL POINT LIBRARY**

6.1 Some points of local control network in the vicinity of Arctowski Station were remeasured.
7. PLANNED ACTIVITIES FOR THE NEXT TWO YEARS

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

   a) GPS observation campaigns 2003 will be carried out in the international framework of the SCAR 95 and SCAR 96 Epoch GPS Campaigns at Arctowski Station

7.2 Topographic Mapping – not yet planned

7.3 Geographic Information Activities – not yet planned

7.4 Termination of the “Atmospheric Impact on GPS Observations” project is planned for 2003