

# SCAR WG-GGI NATIONAL REPORT

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

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The following Korea organisations/institutes have developed working programmes to conduct research or operational work in the Antarctic in the field of Geodesy, Remote Sensing, and Geographic Information.

Polar Sciences Laboratory, Korea Ocean Research and Development Institute

## 1. FIELD ACTIVITIES

### 1.1 Geodetic Surveys (*Korea Ocean Research and Development Institute*)

- a) GPS observations were shortly carried out on the main geodetic point at King Sejong Station on Dec. 1998 and at local GPS points for absolute geomagnetic observation on Dec. 1999.
- b) VLBI observations. No activity

### 1.2 Remote Sensing (*Korea Ocean Research and Development Institute*)

*None*

## 2. MAPPING ACTIVITIES

### 2.1 Topographic Mapping (*Korea Ocean Research and Development Institute*)

A topographic map of the Barton Peninsula around King Sejong Station in scale 1:10,000.

## 3. GEOGRAPHIC INFORMATION ACTIVITIES

### 3.1 Digital Datasets

A topographic map of the Barton Peninsula in scale 1:10,000 can be plotted by ACAD-13 file in IBM PC

3.2 GIS Established. No activity.

## 4. SCIENTIFIC PAPERS PUBLISHED / PRESENTED

Park, B.-K., Chang, S.-K., Yoon, H.I., and Chung, H., 1998, Recent retreat of ice cliffs, King George Island, South Shetland Islands, Antarctic Peninsula, *Annals of Glaciology*, 27, 633-635.

## 5. PLACE NAMES

5.1 None of place names have been approved and submitted to the Composite Gazetteer of Antarctica in the past two years

## 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.

*None*

## **7. PLANNED ACTIVITIES FOR THE NEXT TWO YEARS**

### **7.1 Geodetic Surveys (*Korea Ocean Research and Development Institute*)**

- a) Permanent GPS observation at King Sejong Station has been carried out since Jan. 2000.
- b) GPS observation campaigns will be carried out in the international framework of the SCAR 2001 Epoch GPS Campaign at King Sejong Station.

### **7.2 Remote Sensing (*Korea Ocean Research and Development Institute*)**

- a) Mapping of ice sheet and sea ice around King Sejong Station using Dense Altimeter Data will be carried out.

### **7.3 Thematic Mapping (*Korea Ocean Research and Development Institute*)**

- a) Geological map of the Barton Peninsula around King Sejong Station is preparing.