

# Report of Current Activities of Uruguay for 1998-2000

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The Uruguayan Antarctic Institute (IAU) and Servicio Geográfico Militar (SGM) have developed working programs to conduct operational work in the Antarctic in the field of Geodesy, and Cartography.

## 1. FIELD ACTIVITIES

### 1.1 Geodetic Surveys.

- a) GPS observation campaigns were carried out in the international framework of the SCAR Epoch GPS. Campaigns were performed by SGM personnel during summers from 95 to 00 :

#### **Artigas Station (ART1) 95 to 00**

Latitude 62° 11' 04'' S Longitude 58° 54' 09'' W

#### **Montevideo Station (MON1) 95 to 00**

Latitude 34° 53' 17'' S Longitude 56° 15' 35'' W

- b) Earth tide Monitoring at Artigas Station.

A Lacoste & Romberg relative gravimeter with a MVR Feedback System began to work during December 97. Three year period of observations were performed until February 00.

Tide gauges at Artigas Station were monitored from January to May 99 and same period of 2000.

## 2. MAPPING ACTIVITIES

2.1 Topographic Mapping (IAU, SGM) Artigas Scientific Station, scale 1/1000, was updated at Feb. 2000.

2.2 Collins glacier Small Dome and Track from Artigas to Bellinghousen Station were also surveyed.

### **3. GEOGRAPHIC INFORMATION ACTIVITIES**

Nil.

### **4. SCIENTIFIC PAPERS PUBLISHED / PRESENTED**

- a) Earth Tide Station in Antarctica: An international cooperation sample.  
This paper is going to be distributed at GGI and SEG Working Groups.

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

#### 5.1 Geodetic Surveys (IAU - SGM)

- a) GPS observation campaigns will be carried out in the international framework of the SCAR Epoch GPS Campaigns at Montevideo and Artigas Station.  
Another station at the Antarctic peninsula will be observed probably.
- b) Earth Tides at Artigas Station, analysis of data and final results are going to be carried out.