

## **Component 1: Design and Establishment of Sea Level/Climate Monitoring Network**

### Installation of monitoring stations

Completed.

### Station Configuration and Equipment Installation

All 18 monitoring stations have been installed and are functioning.

Regarding the earth ground station, an agreement has been signed with the UWI Centre for Geo-Spatial Studies (St. Augustine) for siting the facility.

### Operation, Maintenance, and Calibration

The Regional Network Coordinator (RNC) function has now been handed over formally to the CIMH. The CIMH is responsible for coordinating the maintenance, repair and calibration of the network.

Operational procedures are in place for the CIMH Technician and the National technical Officers to make decisions on repair, replacement, and periodic verification of the calibration of the instruments. Instruments that are defective, or for which the calibration needs to be verified, will be shipped to CIMH to be replaced by a reconditioned one. CIMH has established pre-paid shipping arrangements to cover all costs related to this transaction. CIMH also has a Sea-Level and Climate Monitoring Replacement Fund, which will kick in to replace sensors that have exceeded their useful life.

### Data Acquisition, Archiving, and Dissemination

A Regional Archiving Centre (RAC) has been established by CPACC at the Centre for Geospatial Studies at the UWI in St. Augustine, Trinidad and Tobago. The RAC will be responsible for verifying the quality of the data produced by the sensors, and with promoting the use of and developing applications for these data. The Technical Coordinator of the RAC is Ms. Shelley-Ann Jules, who previously worked with the Institute for Marine Affairs (IMA) with responsibility for the CPACC sea-level data.

## **Regional Archiving Centre (RAC)**

### GOES Satellite Downlink

The first shipment of equipment from VITEL was received by December 21, 2000. The shipment basically contained an office workstation and peripheral devices. A base Station equipment is to be received in January 2001.

Based on evaluation executed at VITEL malfunctioning stations and their possible causes were forwarded to the RNC at CIMH by December 2000.

### Data Quality Assurance/Quality Control (QA/QC)

Executed checks on the current and proposed CPACC database to identify problem areas (VITEL, 5-12/12/2000).

Executed transmission checks on all the CPACC stations. Transmission problems were identified for eight stations, and sensor malfunction for a number of others. Findings communicated via e-mail to RNC, CIMH on December 12, 2000.

### RAC Website

Demo RAC Website reconstructed to facilitate new database, and more efficient functionality.

Responded to Ms. Desiree Sasko, Research Associate, Perry Institute for Marine Science, Caribbean Marine Research Centre. Ms. Sasko indicated difficulty in accessing data on the website. Advice was given, but the situation is still to be resolved.

### Products from Data

Datum reduction computations were executed in November 2000 for:

- Port of Spain, Trinidad (MSL and CD).
- Charlotteville, Tobago (CD).
- Guayaguayare, Trinidad (MSL).
- Castries, St Lucia (MSL).
- Discovery Bay, Jamaica (MSL).

These sites were selected based on the current data available to the RAC Coordinator (currently awaiting additional information).

Summary Sheets were created for the above stations.

GPS files were created (currently awaiting additional information)

### Administrative Duties

The RAC coordinator held discussions with personnel of the Department of Surveying and Land Information in Trinidad and Tobago. Identified requirements for instalment of satellite base station and equipment for the RAC. Arrangements were made with the Coordinator of the Centre for Geospatial studies regarding the installation of the RAC. To date the room to house the Regional Archiving Centre still needs to be cleared, a window installed and the shelving moved.

Prepared application for telephone line and submitted draft to the Head of the department for his signature. Application forwarded to Telecommunication Services of Trinidad and Tobago (TSTT).

Contacted second-hand warehouse to acquire furniture for the RAC. To date one (6x3x3.5) ft. desk was purchased on November 23, 2000. No additional furniture will be purchased until the room designated for the RAC can be utilized.

Finalized accounting procedure with the Manager, Engineering Institute (Mr. Winston Rajpaulsingh) on December 18, 2000. Prepared and submitted accounting report for the period November to December 2000.

Submitted payment to TSTT for installation of telephone line. Still awaiting installation.

Met with OAS, Trinidad, Administrative Assistant (Ms. Marina Piper) to discuss the VITEL shipment. Ms. Piper identified that the OAS, Trinidad office had already closed off accounts for

the year, and that the driver was currently on vacation. In view of the situation and the eminent rental fee (for BWIA Cargo Bond to store goods) the RAC Coordinator took responsibility for the documentation and processed the handling charges. Transportation was hired to transport the equipment from the BWIA Cargo Bond, Piarco to St Augustine.

#### Training

RAC Coordinator received training at VITEL, Chantilly, Virginia, December 4<sup>th</sup> – 12<sup>th</sup>, 2000. A report of the training was prepared and submitted by the 22<sup>nd</sup> of December.