

Sea Level Operations in Colombia

- No. of stations installed
 - 11 Tide gauge
 - 13 Meteorological
 - 9 Tide gauges
 - 2 Magdalena River Level
 - 10 Metocean Buoys
 - 45**
- No of stations operational
 - 12**



- Operating organisation**

Maritime General Management – DIMAR



Dirección General Marítima
Autoridad Marítima Colombiana

- Contact person**
- Person responsible for Maintenance and Repairs**

GUILLERMO BUITRAGO

gbuitrago@dimar.mil.co

EDINSO CABARCAS

ecabarcas@dimar.mil.co

Technologies used (e.g. Radar, acoustic, pressure sensors, GNSS, barometer)

- INMARSAT ISAT DATA PRO, IRIDIUM, GPRS/GMS.
- SENSORS ADSP (Current Profiler), CTD (Conductivity Temperature Density), Sea level Radar
- GOES COMUNICATION
- GROUND SATELLITE DISH
- Protocol Binary OTT
- Self-import directory Hydras3
- Decoding Hydras decoder *.mis format 01 min
- Importación BD Nativa Hydras3 Workspace

Frequency of levelling and technique used (e.g. Optical level, campaign GPS)

UNKNOWN

Weblink to data:

<http://btahydras.dimar.mil.co:85/hydras3.htm>

Typical Station

- Station Name: BAHIA MLAGA
- Lat and Lon: 3,972964 -77,327669
- Sensors: Sea level Radar
- Sampling rate: UNKNOWN
- Telemetry method: GOES, GPRS
- Transmit period: 5 min, windows 10 min

- Photograph of a typical station



Future Plans Technology Issues

- **Describe any plans for new stations and support needed**

1. Prioritize maintenance for stations with significant transmission deficiencies.
2. Implement 4G and 5G modems in stations with poor coverage.
3. Use NOAA's GOES telemetry as a backup.
4. Manage the service contract and maintenance plan.
5. Update Hydras software.
6. Update new sensor technologies.

- Describe any technology problems for which you need assistance

acquisition of new servers, The current servers are very old.