

Belize Sea Level Monitoring Report

Station Operations in Belize

1. Date of report: **23 February 2018**
2. Title: **Report on Sea Level Station Operations in Belize**
3.
Egbert Westby
Meteorological Officer II
National Meteorological Service
Phillip S.W .Goldson International Airport
Ladyville, Belize District
Belize
501-225-2011
ewestby@hydromet.gov.bz
4. Map(s) of tide gauge network in country or region

Figure1. Map with location of Stations in the country

A Port Of Belize B Halfmoon Caye C Hunting Caye

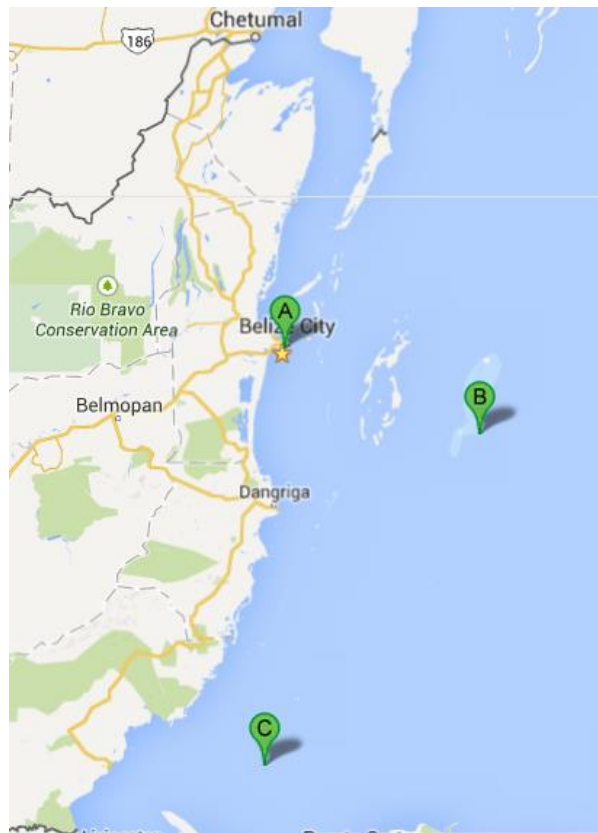
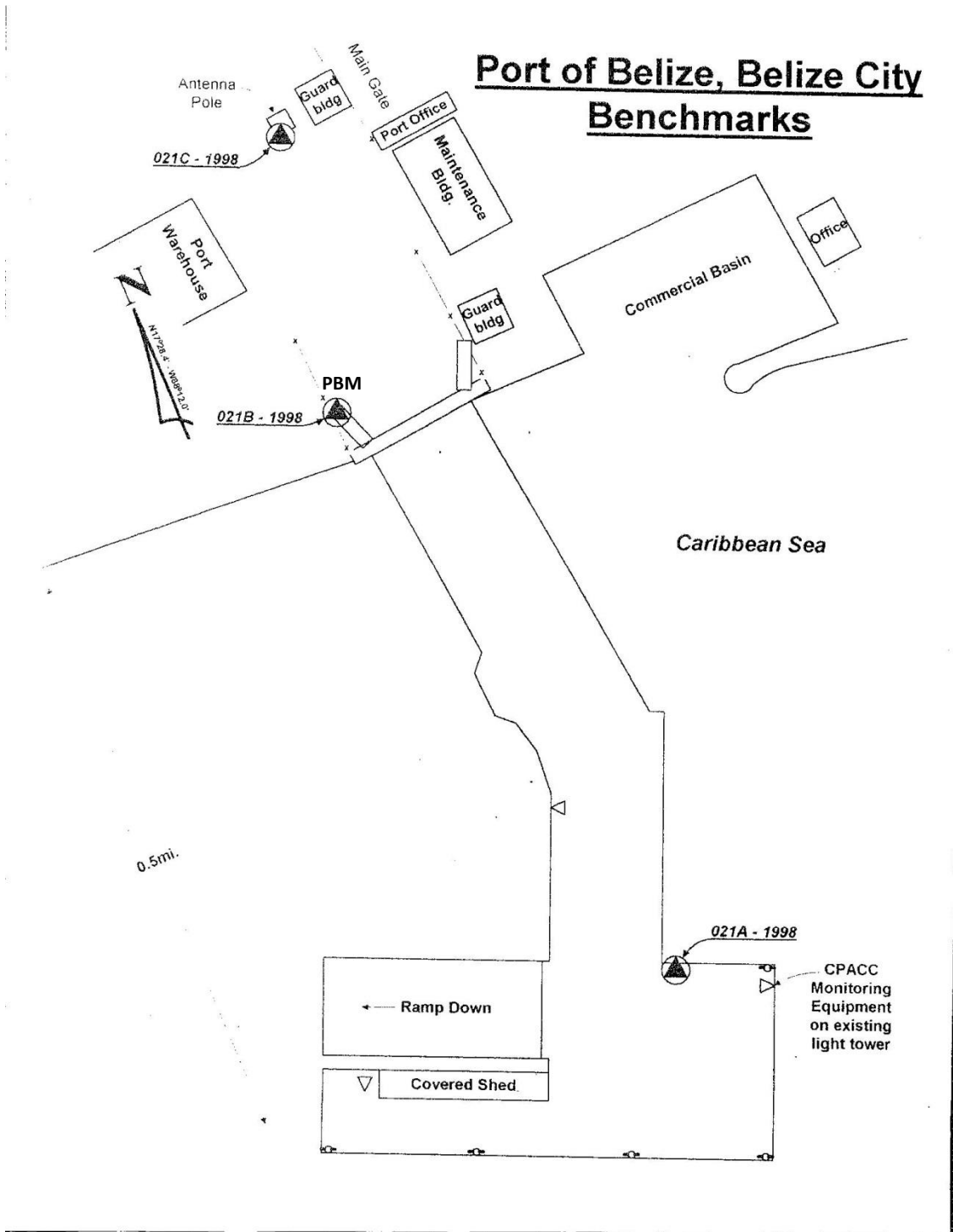


Figure 2 Location of Station(s) Map)



5. Tide gauge station(s)

Name:	Belize City Port
Station Code:	9920801 Met Office station
Station Code IOC	6B001EEE
Lat	17.473544 N
Long	-88.200506 W
Date Installed Met	August 2014
Date Installed IOC	31 Oct 2017
Status	active 2 Radar installed
Operator:	National Meteorological Service /NOC UK

Name:	Half Moon Caye
Station Code:	9958801
Lat	17.216667 N
Long	-87.53334 W
Date Installed	26 August 2014
Status	Active but no sea level instrument installed
Operator:	National Meteorological Service

Name:	Hunting Caye
Station Code:	9959601
Lat	16.08060 N
Long	-88.26101 W
Date Installed	21 October 2014
Status	Inactive but no sea level instrument installed
Operator:	National Meteorological Service

6. An overview of the gauge technology employed in each station

Name of Station	Port Belize
Communications	GOES Transmitter
GOES PID	6B001EEE
WMO Header:	SOBH10
GOES Channel	92
Transmit Period	00:02:10 + 5 minutes after
Sampling Rate	1 sec
GLOSS Station ID	NA
DCP	Yes
GPS (timing)	Yes
GPS (high precision for positioning)	No
Sensor #1	Nile 502 Radar Sensor NO.1
Sensor #2	Nile 502 Radar Sensor NO.2

Met Sensors	Campbell AWS with winds, solar radiation, temperature, humidity, pressure and rainfall
--------------------	--

Name of Station	Half Moon Caye
Communications	Goes Transmitter
GOES PID	502005DE
WMO Header: N/A	78588
GOES Channel	143
Transmit Period	00:49:50
Sampling Rate	01:00:00
GLOSS Station ID	-
DCP	Yes
GPS (timing)	Yes
GPS (high precision for positioning)	No
Sensor #1	NESA ANS LR-15B to be installed
Met Sensors	NESA Weather system with winds, solar radiation, temperature, humidity, pressure and rainfall

Name of Station	Hunting Caye
Communications	Goes Transmitter
GOES PID	502016A8
WMO Header: N/A	78596
GOES Channel	117
Transmit Period	00:11:00
Sampling Rate	01:00:00
GLOSS Station ID	-
DCP	Yes
GPS (timing)	Yes
GPS (high precision for positioning)	No
Sensor #1	NESA ANS LR-15B
Met Sensors	NESA Weather system with winds, solar radiation, temperature, humidity, pressure and rainfall

7. Leveling:
Port Of Belize Station

Number of benchmarks: 3

Last Level Date **March 1998**

Halfmoon Caye and Hunting Caye

Number of Bench marks: 3

Date of last level: 2001

8. An overview of the data availability

Data for Port of Belize station available at

<http://www.ioc-sealevelmonitoring.org/station.php?code=pobe>

up to current

Data from the Hunting Caye and Halfmoon Caye station is available online at

<https://dcs1.noaa.gov/> and [HydrometDB](#)

9. Web, email etc. addresses of data archives and of sources of further information

Currently all data is online at **[http://www.ioc-](http://www.ioc-sealevelmonitoring.org/station.php?code=pobe)**

[sealevelmonitoring.org/station.php?code=pobe](http://www.ioc-sealevelmonitoring.org/station.php?code=pobe)

10. Future Plans.

In about four(4) months (June 2018) water level sensor will be attached by personnel of The National Meteorological Service to next two(2) stations.

Updated bench marks with the Hydrology Unit of all three stations

Installation of three new sea level monitoring stations at Caye Caulker Turneff Atoll and Calabash Caye



SEA LEVEL STATION MONITORING FACILITY

Intro Map Station lists **Station details** Services GLOSS Catalog

[previous station] Station Port of Belize at GMT [next station]

[more details] [GTS message] [show data] [show on map] [monitor]

Station metadata	
Code	pobe
Country	Belize
Location	Port of Belize
Status	Operational
Local Contact	National Meteorological Service of Belize (Belize)
Other Contact	National Oceanography Centre (UK)
Other Contact	Caribbean Tsunami Warning Program (USA)
QC data	n/a
Latitude	17.473544
Longitude	-88.200506
Connection	GTS message
GTS message type	SOBH10
Sensor 1	
Type of sensor	rad (radar)
Sampling rate (min)	1
Sensor 2	
Type of sensor	ra2 (2nd radar)
Sampling rate (min)	1
Sensor 3	
Type of sensor	bat (battery)
Sampling rate (min)	5

Sealevel at Port of Belize station (offset: 2.111 m)

• ra2 (2nd radar)

From 2018-01-08 00:00+00:00 to 2018-01-09 00:00+00:00 ©IOC-VLIZ

Period	Signals	Data
jan 09	<input type="checkbox"/> rad <input checked="" type="checkbox"/> ra2 <input type="checkbox"/> Remove outliers <input type="checkbox"/> Remove spikes	<input checked="" type="radio"/> Relative levels= signal - average over selected period <input type="radio"/> Absolute levels= as received <input type="radio"/> Offset signals= relative signals + offset <input type="radio"/> Show battery voltage

Tip: use left icons to zoom & scroll

Site developed and maintained by VLIZ for UNESCO/IOC

[disclaimer](#) | [contact](#)

