

Sea Level Station Operations in Barbados

1. Date of report: January 31, 2011
2. Title: Report on Sea Level Station Operations in Barbados

3. Name(s), address(es), tel/fax/emails of the authors

CIMH station:

Marvin Forde

Technical Officer

Caribbean Institute of Meteorology and Hydrology (CIMH)

Husbands St. James

Barbados

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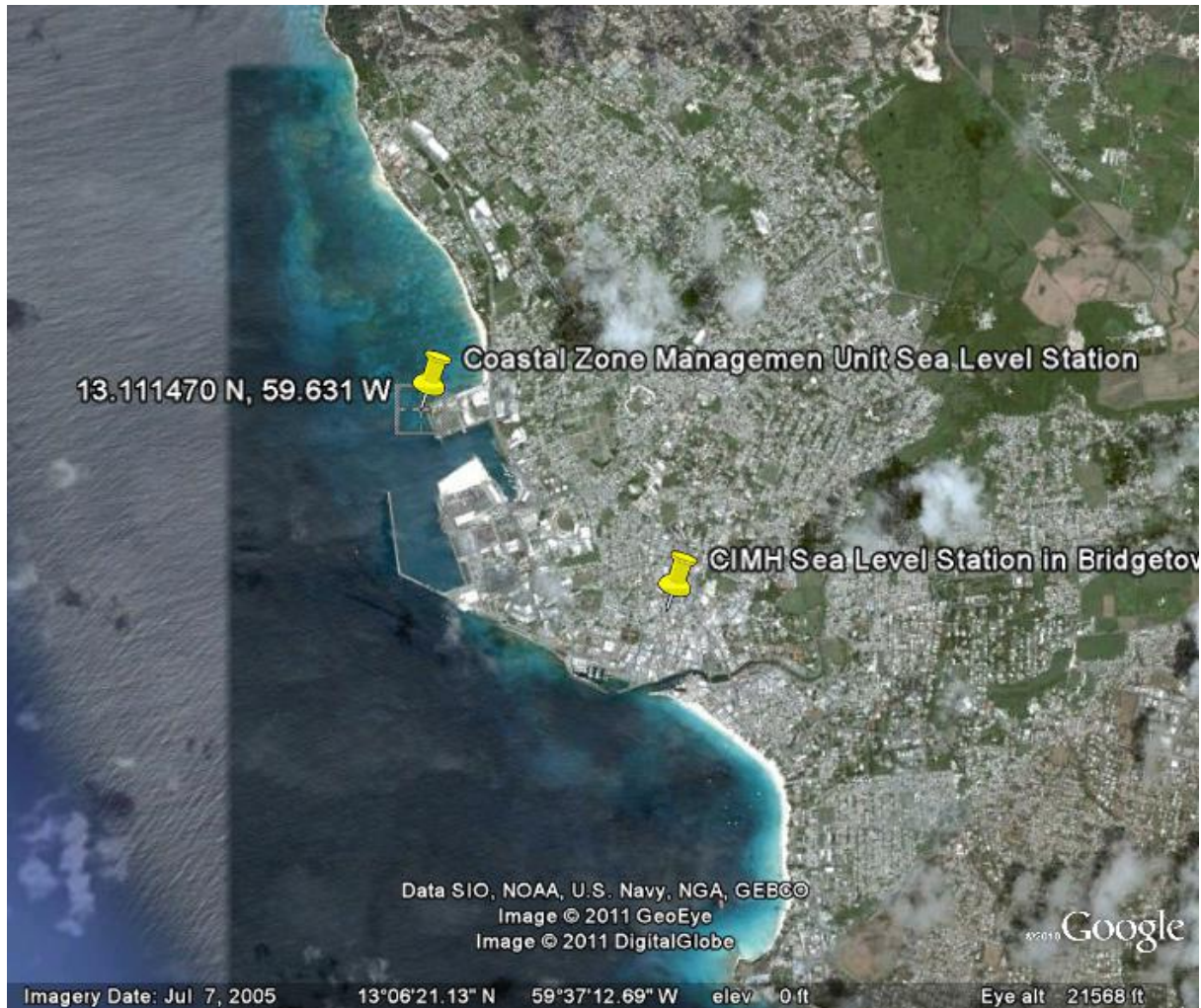
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Coastal Zone Management Unit Station

Christa von Hillebrandt-Andrade (christa.vonh@noaa.gov) with input from Dr. Lorna Inniss (linniss@coastal.bb.gov or ilvocean1@gmail.com), Coastal Zone Management Unit, Barbados

4. Map(s) of tide gauge network in country or region





5. Tide gauge station

Name:	Barbados, Bridgetown Harbor	Barbados, Pelican Fort, Bridgetown Harbor
Station Code:		
Lat	13.10000 (needs to be verified)	13.11147
Long	-59.6166 (needs to be verified)	-59.631
Date Installed	Initially installed in 1998, Upgraded in 2008, by Marvin Forde (CIMH) as part of the MACC/CCCC project.	2009
Status	Transmitting. Met sensor needs to be verified.	Unknown
Operator:	Caribbean Institute of Meteorology and Hydrology, Barbados.	Coastal Zone Management Unit

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

	Barbados, Bridgetown Harbor	Barbados, Pelican Fort, Bridgetown Harbor
Communications	GOES	No telemetry
GOES PID	14004206	Not requested.
WMO Header	SXBR40 has been proposed to NOAA (Jan. 29, 2011)	Unknown (would propose same as for CIMH station)
GOES Channel	79	N/A
Transmit Period	1 Hour	N/A
Sampling Rate	6 min (see note below in overview of data availability).	Unknown
GLOSS Station ID	None	None
DCP	Microcom SDI 12 Bus	Unknown
GPS	Yes	Unknown
Sensor	Aquatrak 5000 w/ integrated Cal/range Temperatures	YSI 600 XLM Multimeter Pressure Gauge
Met Sensors	Vaisala WXT 510 (AT, Pressure, Relative Humidity, Wind Direction, Wind Speed, Precipitation)	Unknown

7. Leveling: Existing benchmarks for CIMH station, need to survey. Unknown status for CZM station.

8. An overview of the data availability. Marvin Forde, CIMH has downloaded data from the CIMH station. Since transmission time is in the middle of two readings, the system is not able to take a new reading and update the memory locations. The system only takes a reading every 6 minutes and not the one minute averaging to the 6 minutes.

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

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10. Future Plans. Evaluate alternatives to upgrade the CIMH station to 5 minute transmissions and install additional sea level sensors. This station can be used, along with the Grenada station, as a test bed for upgrades.