

**Report to the Fifteenth Session of the IOC Group of Experts  
On the Global Sea Level Observing System (GLOSS)**

**NATIONAL REPORT OF ECUADOR**

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**BASIC INFORMATION**

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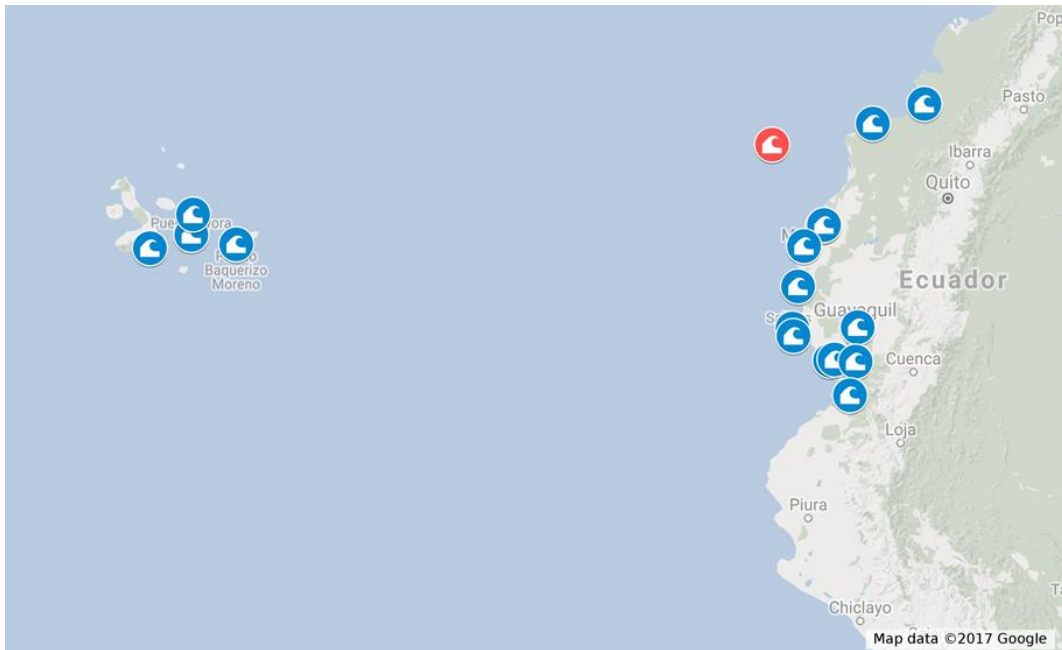
**SEA LEVEL NETWORK**

**Report**

The Oceanographic Institute of the Navy (INOCAR) is the Oceanographic and Hydrographic Service for Ecuador and it is responsible for the installation and maintenance of tide gauges stations as well as acquisition, processing, archiving, prognostics and published of sea level data. The stations are located in the continental and insular coast from Ecuador. The insular coast corresponds to Galapagos Islands.

Actually, Inocar manage 13 sea level stations; 3 of them belong to UHSLC (University of Hawaii Sea Level Center), but the maintenance is in charge of Inocar. Locally, all the stations transmit data by GPRS system, and just 3 transmit additionally by GOES. The rate of transmission depends of the location.

In the next figure it is possible to observe the distribution of tide gauges station, in the continental coast and in the insular coast. The mark in red is the DART Type Buoy for tsunami warning purposes.



The sea level network has two purposes; the main is for the establishment of national mean sea level aiming to national cartography and nautical charts, and for operational tsunami warning.

	NAME	LOCATION				
Nº	UBICACIÓN	LAT	LON	SENSOR	Type	TX
1	SAN LORENZO	1.294	-78.838	ENC	SEMIAUTOMATIC	GPRS
2	ESMERALDAS	0.991	-79.646	ENC, PRS	AUTOMATIC	GPRS
3	BAHÍA CARÁQUEZ	-0.607	-80.423	ENC	SEMIAUTOMATIC	GPRS
4	JARAMIJO	-0.943	-80.638	PRS	AUTOMATIC	GPRS
5	LA LIBERTAD*	-2.218	-80.906	ENC, PRS, RAD	AUTOMATIC	GPRS-SAT
6	DATA POSORJA	-2.716	-80.314	PRS	SEMIAUTOMATIC	GPRS
7	POSORJA	-2.700	-80.245	ENC, RAD	SEMIAUTOMATIC	GPRS
8	PUERTO NUEVO	-2.278	-79.912	PRS	SEMIAUTOMATIC	GPRS
9	RIO GUAYAS	-2.195	-79.880	ENC	SEMIAUTOMATIC	GPRS
10	PUNÁ	-2.735	-79.912	ENC	SEMIAUTOMATIC	GPRS
11	PUERTO BOLÍVAR	-3.260	-80.001	ENC, PRS	AUTOMATIC	GPRS
12	SANTA CRUZ*	-0.752	-90.311	ENC, PRS, RAD	AUTOMATIC	GPRS-SAT
13	BALTRA*	-0.436	-90.285	ENC, PRS, RAD	AUTOMATIC	GPRS-SAT
	SENSOR=		ENC= Encoder; PRS= Pressure Sensor ; RAD=Radar			
	*OWNER UHSLC operated by Inocar					

The last table lets one to observe the main characteristics of each sea level station. In the case of automatic station, the transmission of data to the Inocar Center is continuous.

Forecast Tide Data can be found at [www.inocar.mil.ec](http://www.inocar.mil.ec)

If you need a serial data of any tide station please contact us at [inocar@inocar.mil.ec](mailto:inocar@inocar.mil.ec)