



UK National Report

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**National
Oceanography Centre**
NATURAL ENVIRONMENT RESEARCH COUNCIL

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UK tide gauge contribution to GLOSS

1. UK National Tide Gauge Network – 43 sites

- UK National Tide Gauge Network owned by the Environment Agency (EA)
- Maintained by the Tide Gauge Inspectorate at National Oceanography Centre (NOC)
- Data quality control, archival and dissemination by BODC

2. Tide gauges in the British Dependent Territories of the South Atlantic and Gibraltar and gauges in Antarctica

- Funded by the National Environment Research Council (NERC), through the NOC core-funded Climate and Sea Level activities

UK Tide Gauge Network

- Established after violent storms in the North Sea in 1953
- Serious flooding in the Thames Estuary
- Consists of 43 gauges around the coast of the UK
- Three of the gauges are committed to GLOSS; these have GPS





UK Network GLOSS sites

GLOSS No.	Site Name	Latitude	Longitude	Sensors (may not all be operational)
236	Lerwick	60.15	-1.1333	Two full tide and a mid-tide bubbler gauge
241	Newlyn	50.1	-5.55	Full tide and a mid-tide bubbler gauge and a back-up potentiometer attached to a Munro float gauge
238	Stornoway	58.2	-6.3833	Two full tide and a mid-tide bubbler gauge
248	Gibraltar	36.1482	-5.3649	Kalesto radar gauge plus 2 KPSI differential sensors which report via Meteosat, as well as a Vega radar and a high rate tsunami sensor which use broadband.

South Atlantic Network

- Coastal tide gauges and bottom pressure recorders
- Established through the ACCLAIM (Antarctic Circumpolar Current Levels by Altimetry and Island Measurements)
- Data from the gauges can be found at:

www.ntsif.org/networks/accclaim



St. Helena



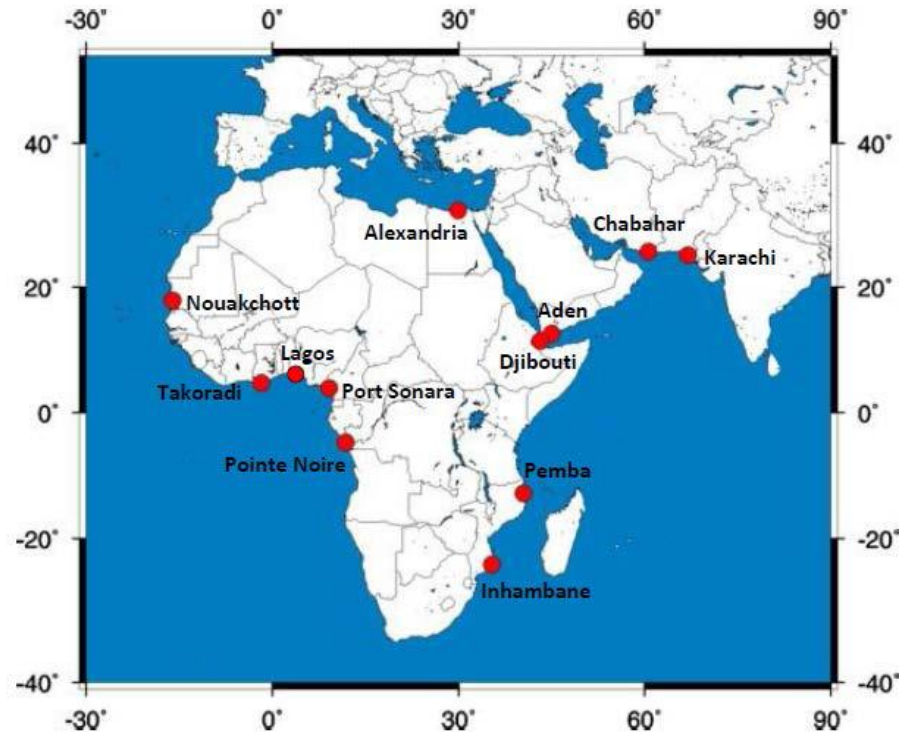


South Atlantic Network

GLOSS No.	Site Name	Responsible country	Latitude	Longitude	Sensors (may not all be operational)
349	Ascension	UK	-7.9167	-14.4167	OTT DCP, Waterlog radar, PS1(Full)=KPSI 500, PS2(half)=KPSI 500, POL Tidata (original logger with Quartztronic sensors)
264	St. Helena	UK	-15.9667	-5.7	WaterLog DCP and radar system, plus 2 PLS pressure sensors
266	Tristan da Cunha	UK	-37.05	-12.3	Waterlog DCP and radar system
305	Port Stanley	UK	-51.75	-57.9333	OTT DCP tide gauge, Waterlog radar 2x PLS pressure sensors, POL Tidata (original logger with Digiquartz sensors)
188	Vernadsky	Ukraine	-65.25	-64.2667	OTT DCP tide gauge, PS1(Full)=KPSI 500, PS2(half)=KPSI 500, POL Tidata (original logger with single Digiquartz sensor), float gauge
342	Rothera	UK	-67.5717	-68.1283	POL Tidata (original logger with Digiquartz sensors)
306	Signy	UK	-60.7	-45.6	POL Tidata (original logger with 2 Digiquartz sensors)

Africa and Western Indian Ocean

- NOC scientists and engineers have been involved in the Ocean Data and Information Network for Africa (ODINAFRICA) network
- Establish an African tide gauge network and improve sea-level monitoring in the Indian Ocean
- PSMSL and BODC work with IOC to provide access to delayed-mode quality-controlled data from gauges that form part of the ODINAFRICA and Indian Ocean Tsunami Warning System.
- The data are available at:
http://www.gloss-sealevel.org/data/africa_and_west_indian_ocean/





GLOSS No.	Site Name	Responsible country	Latitude	Longitude	Sensors (may not all be operational)
3	Aden	Yemen	12.7833	44.9833	OTT Kalesto Radar Sensor, two OTT ODS4-K Pressure Sensors
349	Alexandria	Egypt	31.2167	29.9167	OTT Kalesto Radar Sensor and an OTT ODS4-K Pressure Sensor
337	Chabahar	Iran	25.3	60.6	OTT Kalesto Radar Sensor and two OTT ODS4-K Pressure Sensors
2	Djibouti	Djibouti	11.6	43.15	OTT Kalesto Radar Sensor and two OTT ODS4-K Pressure Sensors
10	Inhambane	Mozambique	-23.9167	35.5	OTT Kalesto Radar Sensor and an OTT ODS4-K Pressure Sensor
30	Karachi	Pakistan	24.8	66.9667	OTT Kalesto Radar Sensor and two OTT ODS4-K Pressure Sensors
259	Lagos	Nigeria	6.4205	3.4073	OTT Kalesto Radar Sensor and two OTT ODS4-K Pressure Sensors
n/a	Nouakchott	Mauritania	17.9896	16.037	OTT Kalesto Radar Sensor and two OTT ODS4-K Pressure Sensors
11	Pemba	Mozambique	-12.9667	40.4833	OTT Kalesto Radar Sensor
261	Pointe Noire	Republic of Congo	-4.7833	11.8333	OTT Kalesto Radar Sensor and an OTT ODS4-K Pressure Sensor
350	Port Sonara	Cameroon	4.005	9.125	OTT Kalesto Radar and an OTT ODS4-K Pressure Sensor
335	Takoradi	Ghana	4.8833	-1.75	OTT Kalesto Radar Sensor and two OTT ODS4-K Pressure Sensors