The UNESCO IOC Sea Level Monitoring Facility is a web-accessible tool for viewing sea level data received in real time from different network operators. The IOC’s service is freely available to all. Please note that the data has not undergone any quality control and is provided as received. IOC, VLIZ and data suppliers accept no liability for errors and/or delays in data or for tsunami warning or other public safety decisions carried out on the basis of data viewed using this tool. The sampling frequency and data transmission frequency varies for the stations. This service should not be viewed as operationally robust since its access utilizes commercial Internet services that could become clogged during a large tsunami event.

This service provides (i) information about the operational status of global and regional networks of real time sea level station, and (ii) a display service for quick inspection of the raw data stream from individual stations. The site initially focused on operational monitoring of sea level measuring stations in Africa and was developed from collaboration between Flanders Marine Institute (VLIZ) and the ODINAFRICA project of IODE. It has been expanded to a global station monitoring service for real time sea level measuring stations that are part of IOC programmes i.e. (i) the Global Sea Level Observing System Core Network; and (ii) the networks under the regional tsunami warning systems in the Indian Ocean (IOTWS), North East Atlantic & Mediterranean (NEAMTWS), Pacific (PTWS) and the Caribbean (CARIBE-EWS). As of July 2018, 159 organizations were contributing data.

The data and products available are made available in accordance with the IOC Oceanographic Data Exchange Policy as adopted by the 22nd session of IOC Assembly in Resolution 6. Data and products available on this web-site may not be used for any commercial purposes. Commercial users should contact the relevant data originators.

This IOC Sea Level Station Monitoring Facility web site provides the following capabilities:
- Global sea level network map, showing color-coded operational status (working/not working)
- Station listing, showing metadata (4-letter code, GLOSS ID number, Location, Collection method, Last Data Transmission date/time, Delay, and Transmit Interval)
- Plotting and download of data received
It does not provide low frequency and high frequency research quality sea level data, which is available from GLOSS designated data centers at the Permanent Service for Mean Sea Level (PSMSL), the British Oceanographic Data Center (BODC), the University of Hawaii Sea Level Center (UHSLC) or the data originators. A ‘QC data’ link on the station details page gives information on retrieving research quality data.

Station Listing screen, from which users may select stations to view:

Station Data plotting. User-selectable time windows are also available.

Partners: This project was made possible by the joint effort of:

IOC  Intergovernmental Oceanographic Commission of UNESCO
GLOSS  Global Sea Level Observing System
IODE  International Oceanographic Data and Information Exchange
ODINAFRICA  Ocean Data and Information Network for Africa
CARIBE-EWS  Tsunami and Other Coastal Hazards Warning System for the Caribbean and Adjacent Regions
IOTWS  Indian Ocean Tsunami Warning and Mitigation System
NEAMTWS  North-Eastern Atlantic, the Mediterranean and Connected Seas Tsunami Warning and Mitigation System
PTWS  Pacific Tsunami Warning and Mitigation System
GFZ  German Research Centre for Geosciences
POL  Proudman Oceanographic Laboratory
UHSLC  University of Hawaii Sea Level Center
VLIZ  Flanders Marine Institute
WMO  World Meteorological Organization
JMA  Japan Meteorological Agency
KMI  Royal Belgian Meteorological Institute
Meteo-France

Many operators of the WMO GTS network