

# Tide Monitoring Systems Central Weather Bureau Taiwan (CWBT)

## Background

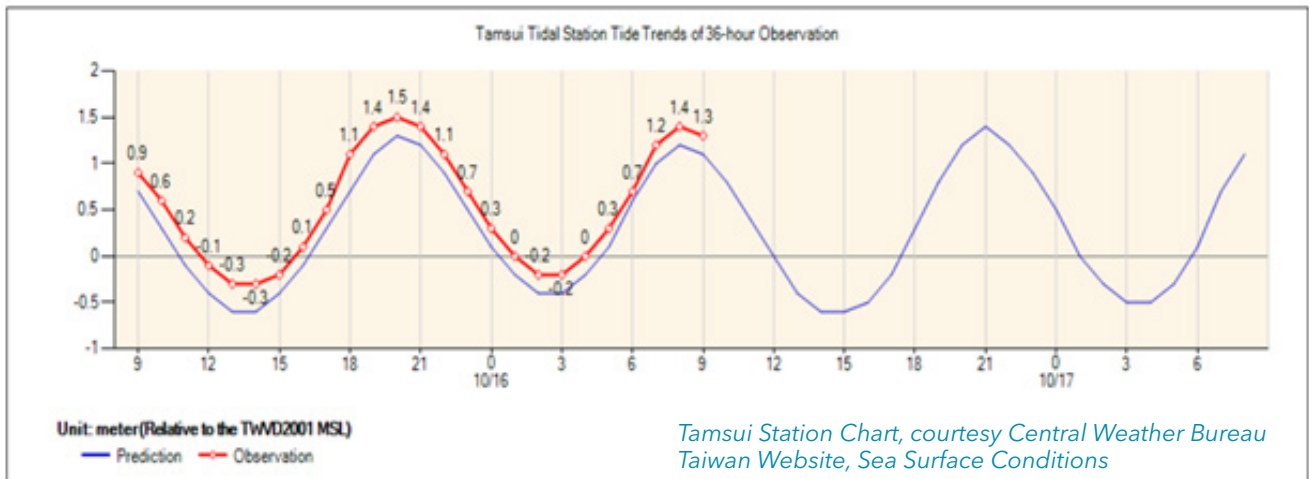
The Central Weather Bureau Taiwan (CWBT) operates tide gauges throughout Taiwan with sea level observations used for both operational and modelling purposes. The stations are collocated with wharves and marinas to assist harbor activity. The observation data augments predicted tide levels and is critical data for typhoon events and storm surge model guidance information. The measurement stations are situated in coastal areas and subjected to harsh environmental conditions, including typhoons. A non-contact method of water level measurement has been selected with data transmitted wirelessly to local servers.



## Challenge

In early 2017, Smartec, a leading instrument and system integration company based in Taipei, was engaged by the CWBT to upgrade their tide monitoring systems at fifteen stations around the island. The Waterlog Nile was selected by Smartec after rigorous tests in 2016.





### Xylem Solution

The Nile was selected by Smartec for its strong record on accuracy and easy integration into the existing data logger and resident infrastructure.

### Application

The Waterlog Nile Radar Level Sensor is manufactured from a plastic PBT housing which is resistant to salt water and has a measurement range to 70m (\*Nile 517). In addition, the incorporation of multi-echo tracking enables instrument use in situations where partial obstruction in the measurement field is unavoidable.



David Su and Stephen from Smartec at the Tamsui Fisherman's Wharf Station



### Learn More

[Learn more about the WaterLOG Nile Radar non-contact water level sensor](#)



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