

# Tsunami Warning System

Tasmania, Norfolk Island and Christmas Island

## Background

The Bureau of Meteorology, Geoscience Australia and Emergency Management Australia jointly run a tsunami warning program for the south-west Pacific. The program serves to warn Australians of tsunami that may impact our coasts, both east and west, as well as provide leadership for regional tsunami warning in the south-west Pacific.

Manly Hydraulics Laboratory (MHL) was commissioned to install four of the national warning stations.

## Project Scope

The aim of the project was to install four Australian Sea Level Observation Systems (ASLOS) to supplement Australia's tsunami warning program. Monitoring stations were installed by MHL as follows:

- Battery Point, Tasmania – February 2009
- Maria Island, Tasmania – April 2009
- Norfolk Island – July 2009
- Christmas Island – August 2009

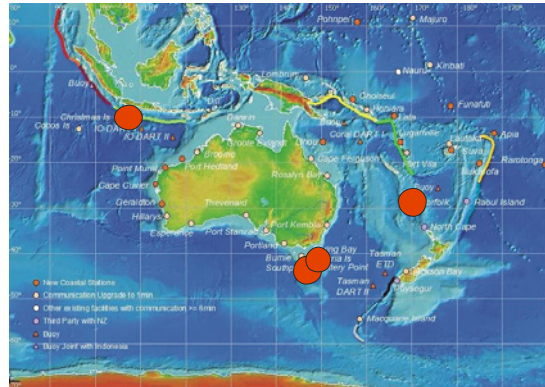
## Our Role

MHL undertook all logistical arrangements, construction and technical installation at the four remote locations, and provided technical expertise in instrumentation that contributed to a higher level design standard for the client.

MHL's longstanding experience in coastal data design, installation, operation and management achieved a high level of technical problem-solving to meet tight project timeframes and overcome environmental and historical constraints.

## Outcomes

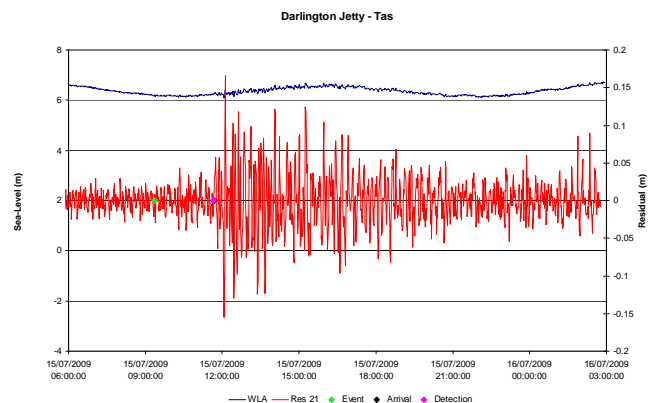
MHL received excellent feedback from the Principal, and is looking forward to a stronger working relationship for future installations.



Australian Sea Level Observation Systems installed by Manly Hydraulics Laboratory



Radar water level monitoring sensor



Detection of a water level anomaly due to a tsunami in July 2009