

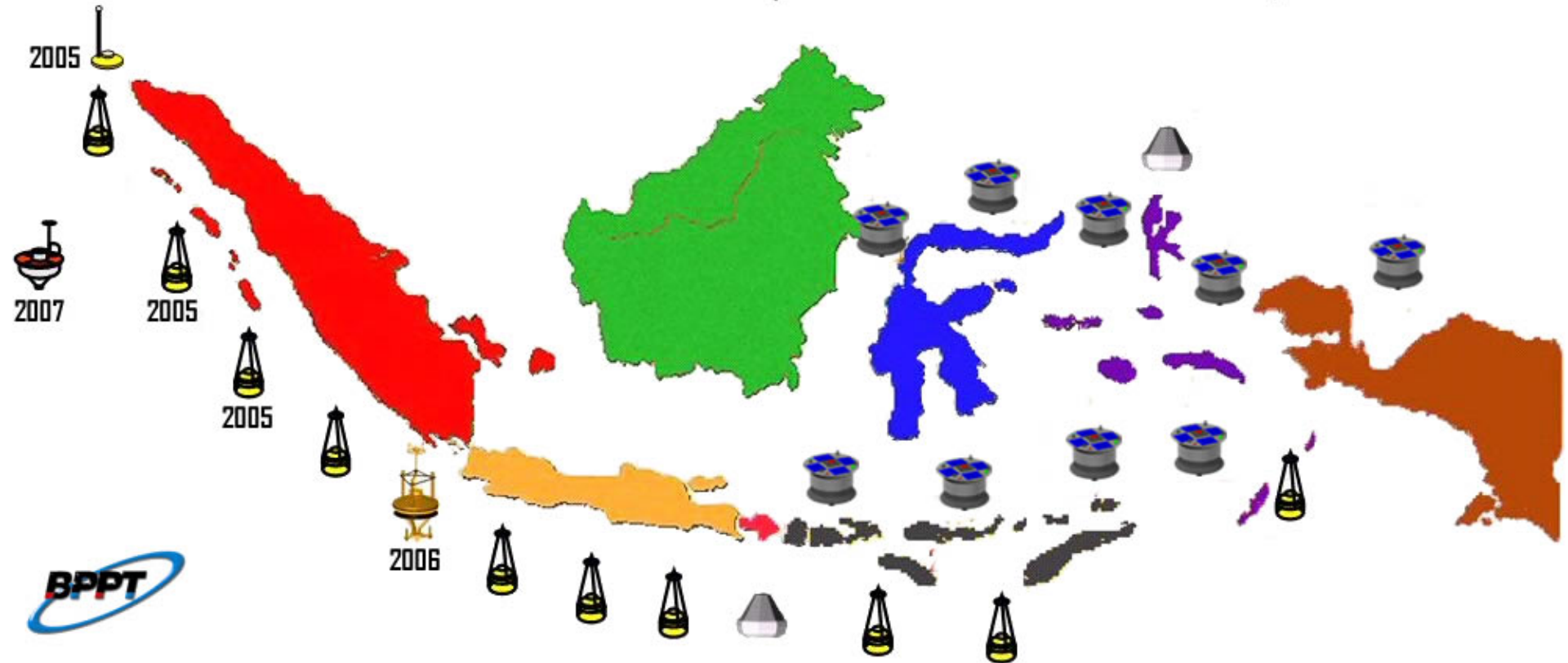
# Indonesian Tsunami Buoy Network

**Djoko Hartoyo**

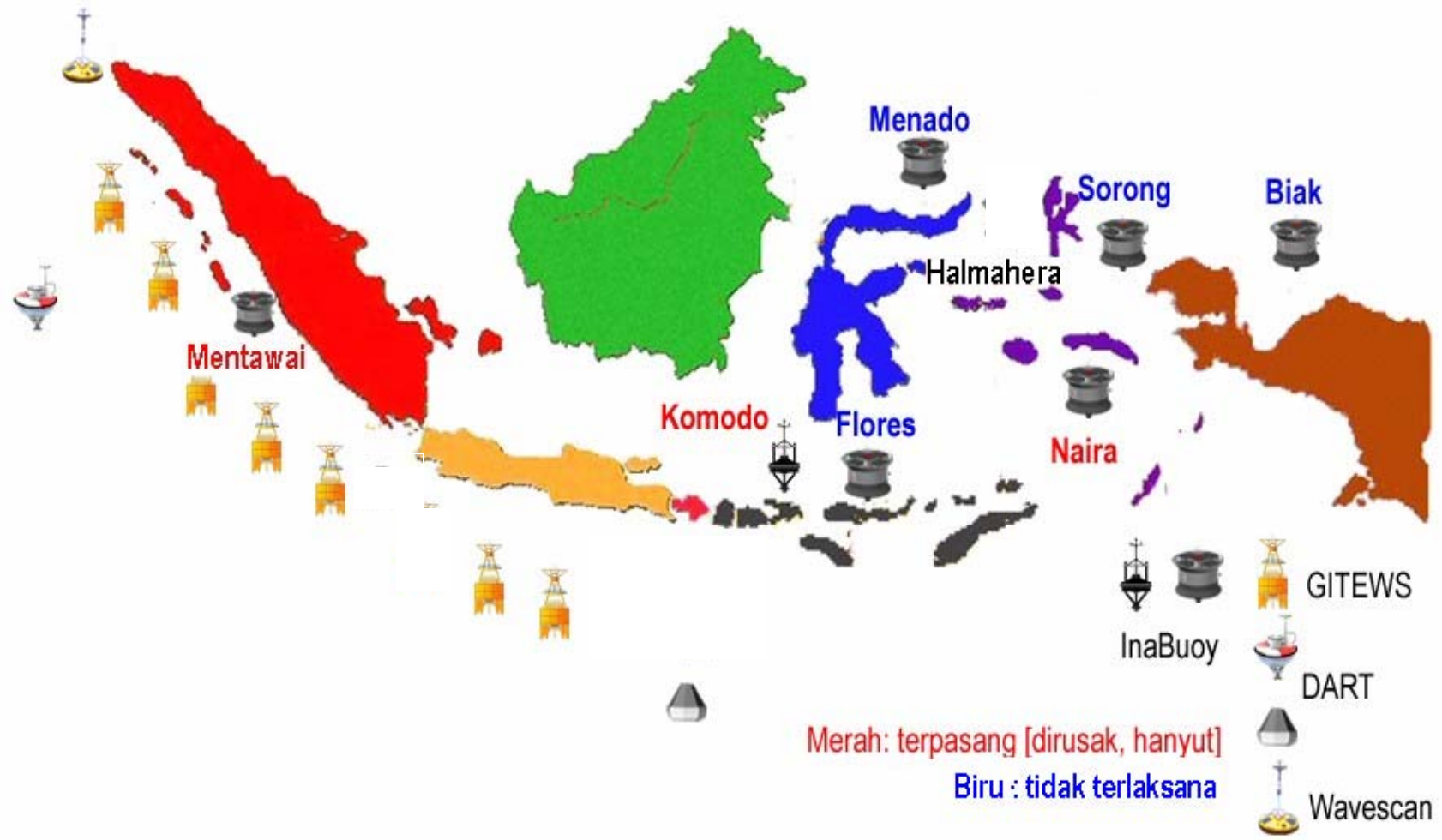
**Project Manager**

**Technology Center for Marine Survey  
Agency for the Assessment and Application of Technology  
(BPPT)  
Jakarta Indonesia**

# Indonesian Tsunami Buoy Array



# Indonesian Tsunami Buoy Array





Telecommunication Antenna  
Meteorology Sensors

**Buoy**

Instrumentation Bay

Acoustic Transducer



Mooring System



Acoustic Release,  
Acoustic Modem

Battery

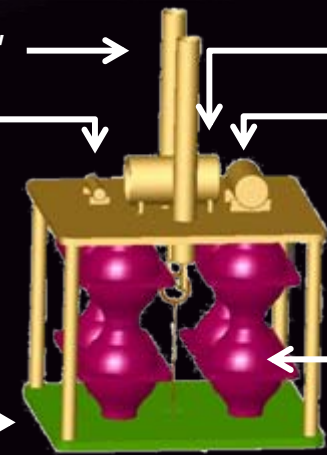
CPU

Bottom  
Pressure  
Recorder

Platform

Floater

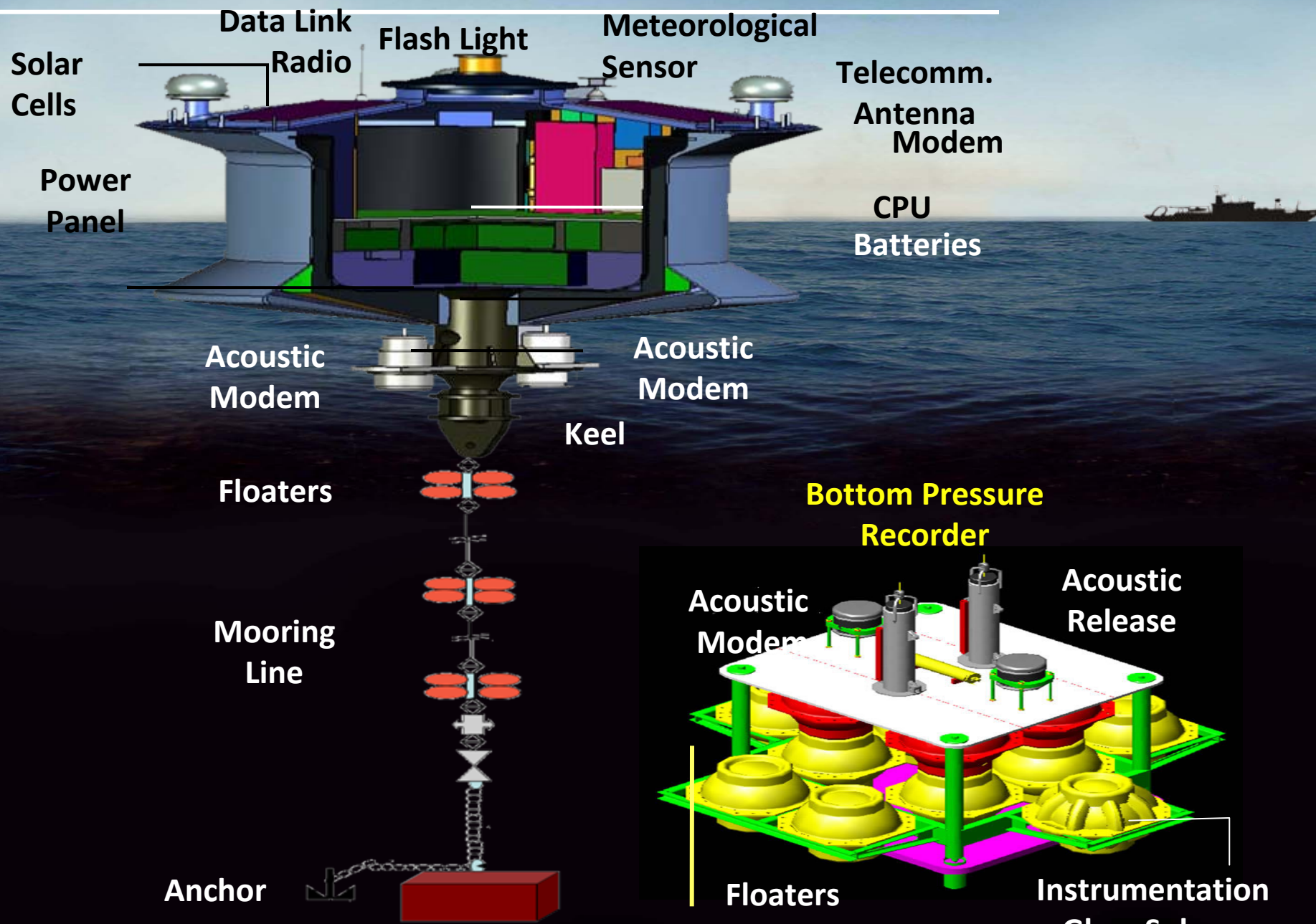
Sinker



**Ocean Bottom Unit**

# Indonesia TSUNAMETER Development Program

# Buoy Tsunami Indonesia



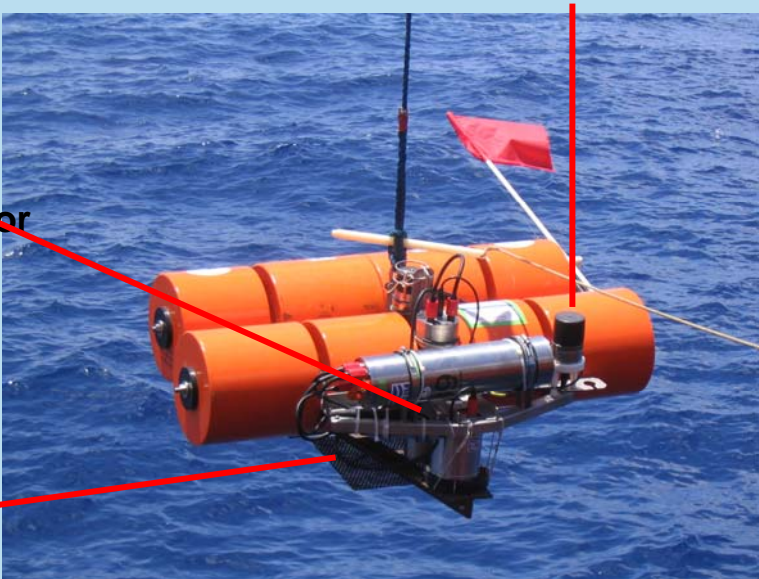
# GITEWS Buoy



- GPS-Antenna
- Communication
- Windgenerator
- Meteorological Instruments

# Ocean Bottom Unit

Acoustic Modem



Pressure Sensor

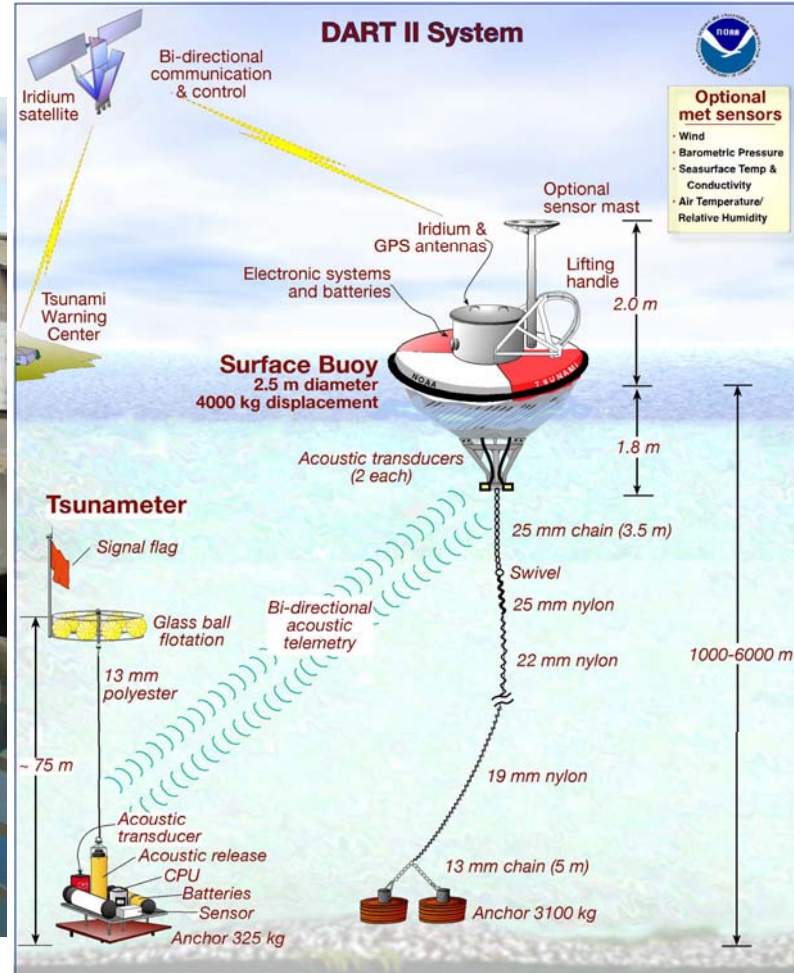
Ocean Bottom Seismometer



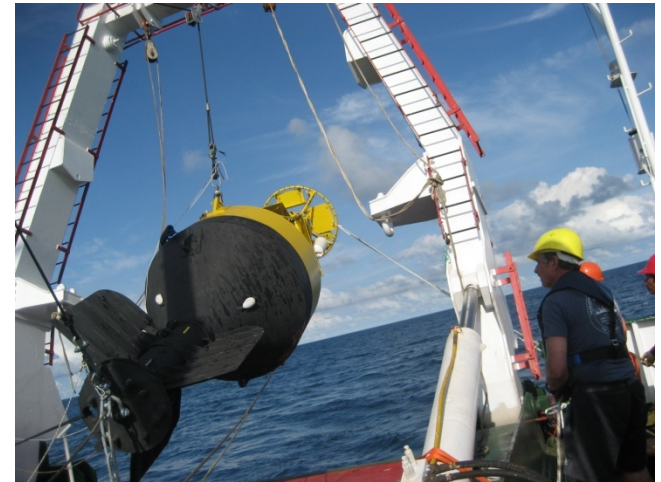
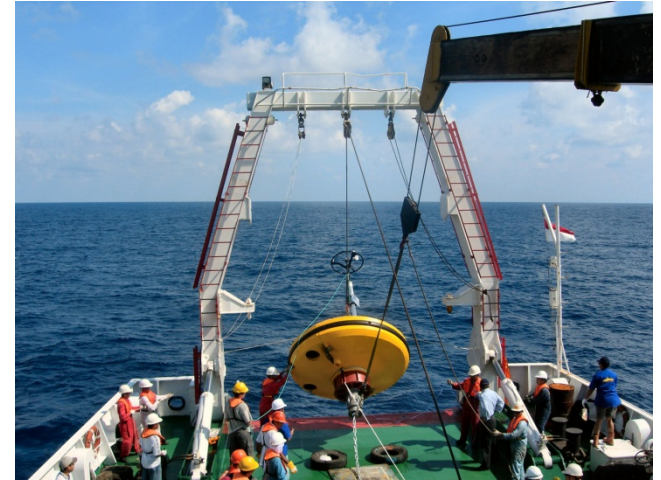
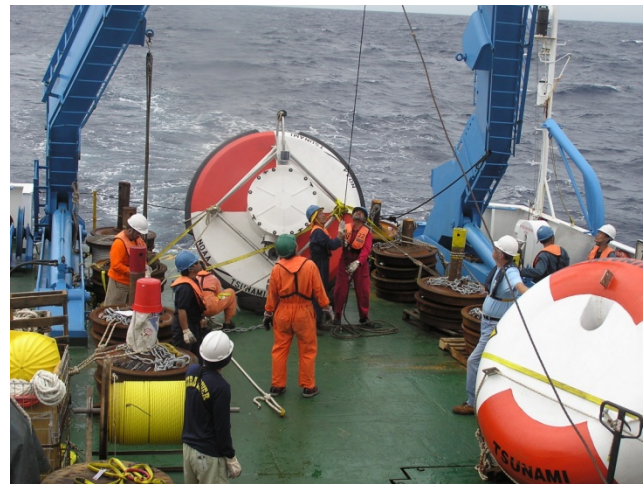
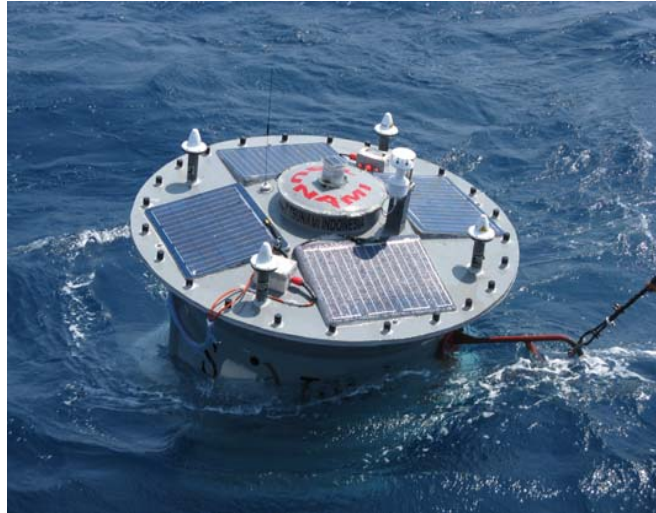
# DART-ETD



PMEL -Engineering Development Division Seattle, WA

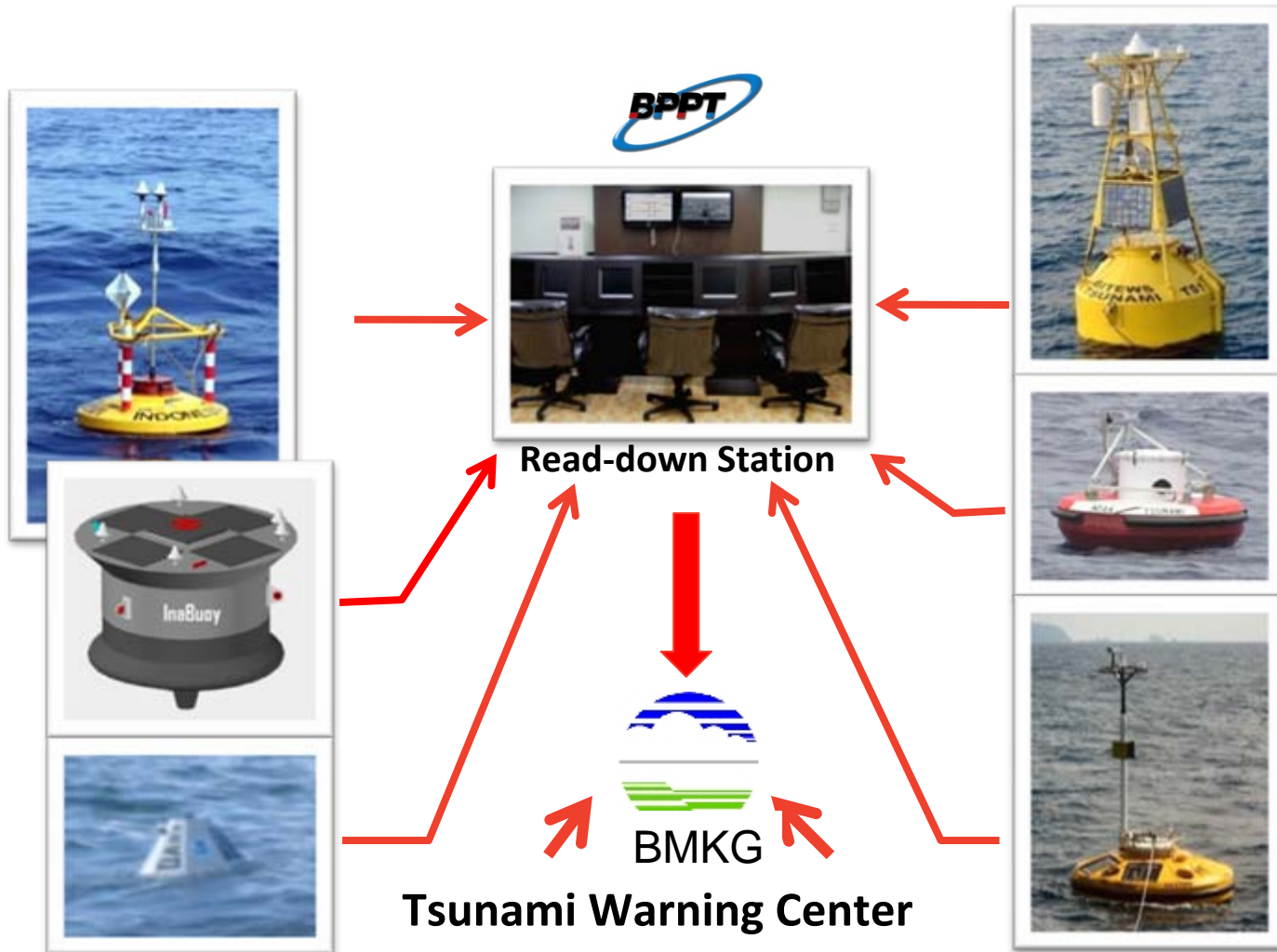


# Operational Capacity: Baruna Jaya Research Vessels



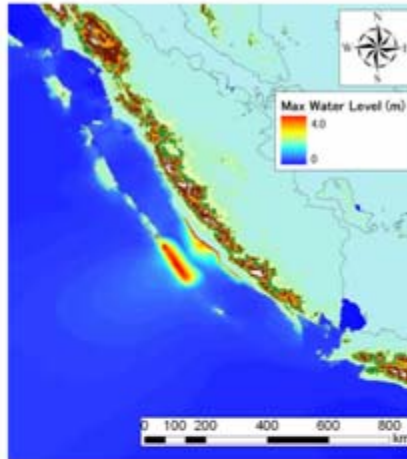


# Data Flows & Interoperability

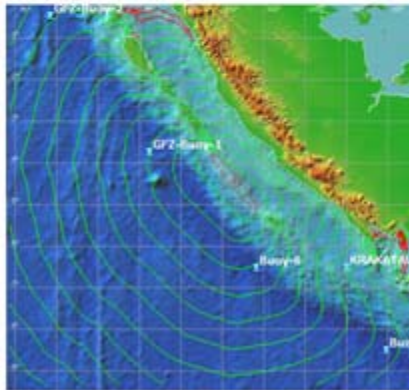


# Bengkulu Earthquake & Tsunami, 12 September 2007, M 6.6

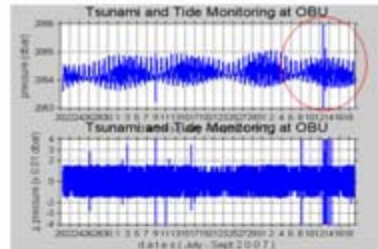
Amplitude



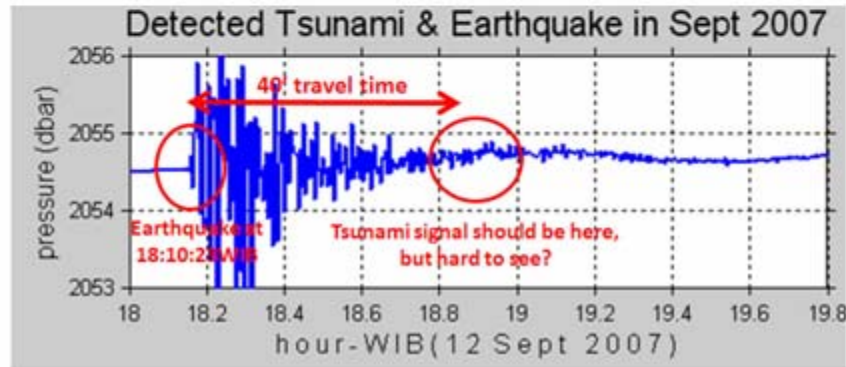
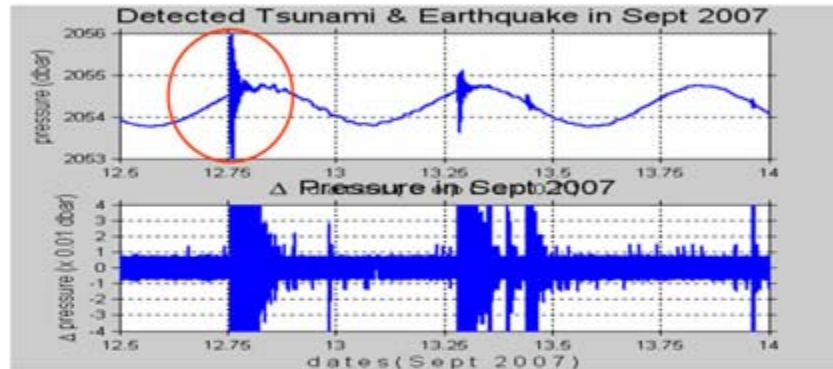
Propagation time



Each contour represents 5 minutes travel time



12 September 2007 Bengkulu Earthquake & Tsunami Detected by InaBuoy Krakatau



# VANDALISM



# VANDALISM



# Instrument Problem



# Thank You

