PTWC Warning and Advisory Services Report

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NOAA Pacific Tsunami Warning Center
Observational Data: > 500 Seismic Stations
Observational Data: > 400 Sea Level Stations
PTWC Operational Activities

- Responded to >5000 global earthquakes that triggered PTWC seismic alarms
- Analyzed and Issued Observatory Messages for 581 global earthquakes (Mw > ~5.5).
- Issued PTWS Tsunami Bulletins for 79 Pacific earthquakes (Mw ≥ 6.5)
  - 54 Tsunami Information Bulletins
  - 5 Tsunami Warnings

---------- New Products 10/1/2014 ----------
- 19 Tsunami Information Statements
- 3 Tsunami Threat Messages
PTWC Warnings or Threats

04/01/2014 Northern Chile
- Earthquake Magnitude 8.2
- Issued 8 min / Canceled 296 min
- >3 m runups in northern Chile
- Some tsunami damage but no casualties

04/03/2014 Northern Chile
- Earthquake Magnitude 7.7
- Issued 8 min / Canceled 76 min
- Up to 0.74 m on nearest coastal gauges
- No damage or casualties
PTWC Warnings or Threats

- **04/12/2014 Solomon Islands**
  - Earthquake Magnitude 7.6
  - Issued 5 min / Canceled 81 min
  - 0.02 m on Coral Sea DART gauge
  - No tsunami damage or casualties

- **04/13/2014 Solomon Islands**
  - Earthquake Magnitude 7.4
  - Issued 10 min / Cancel 126 min
  - 0.01 m on Coral Sea DART gauge
  - No tsunami damage or casualties
PTWC Warnings or Threats

- **04/19/2014 Solomon Islands**
  - Earthquake Magnitude 7.5
  - Issued 9 min / Cancel 71 min
  - 0.11 m on nearest coastal gauge
  - No tsunami damage or casualties

- **10/14/2014 Central America**
  - Earthquake Magnitude 7.3
  - Issued 19 min (upgrade) / Cancel 43 min
  - No tsunami observed
  - No damage or casualties
PTWC Warnings or Threats

- **11/15/2014 Halmahera, Indonesia**
  - Earthquake Magnitude 7.1
  - Issued 10 min / Cancel 119 min
  - 0.09 m on nearest coastal gauge
  - No damage or casualties

- **03/29/2015 New Ireland**
  - Earthquake Magnitude 7.5
  - Issued 5 min (upgrade) / Cancel 161 min
  - 0.5 m on nearest coastal gauge
  - No damage or casualties
Other Notable Events

- **03/16/2014 Northern Chile**
  - Earthquake Magnitude 6.7
  - Information Bulletin Issued 6 min
  - Up to 0.26 m on nearby coastal gauges
  - No damage or casualties

- **04/18/2014 Guerrero, Mexico**
  - Earthquake Magnitude 7.2
  - Information Bulletin Issued 12 min
  - 0.43 m on coastal gauge at Acapulco
  - No damage or casualties
Other Notable Events

- **06/23/2014 Kermadec Islands**
  - Earthquake Magnitude 6.9
  - Information Bulletin Issued 8 min
  - 0.13 m on coastal gauge at Raoul Island
  - No damage or casualties

- **07/11/2014 Honshu, Japan**
  - Earthquake Magnitude 6.5
  - Information Bulletin Issued 9 min
  - 0.20 m at Ofunato, Japan
  - No damage or casualties
Other Notable Events

- 10/09/2014 East Pacific Rise
  - Earthquake Magnitude 7.1
  - Information Bulletin Issued 10 min
  - 0.47 m at Easter Is and 0.08m at San Felix Is
  - No damage or casualties
Other PTWC Activities

- Implemented new domestic tsunami products for American Samoa and Guam/CNMI
- Implemented Enhanced Products for the PTWS on October 1, 2014
- Participated in the Pacific Wave 15 Exercise
- Moved to the Inouye Regional Center in Pearl Harbor
- Continued development of new operations software for both PTWC and USNTWC.
Thank You