



United Nations
Educational, Scientific and
Cultural Organization



Intergovernmental
Oceanographic
Commission

Fourth Meeting of the ICG/PTWS SW Pacific Working Group on Tsunami Warning and Mitigation

22-23 August 2016 Honiara, Solomon Islands

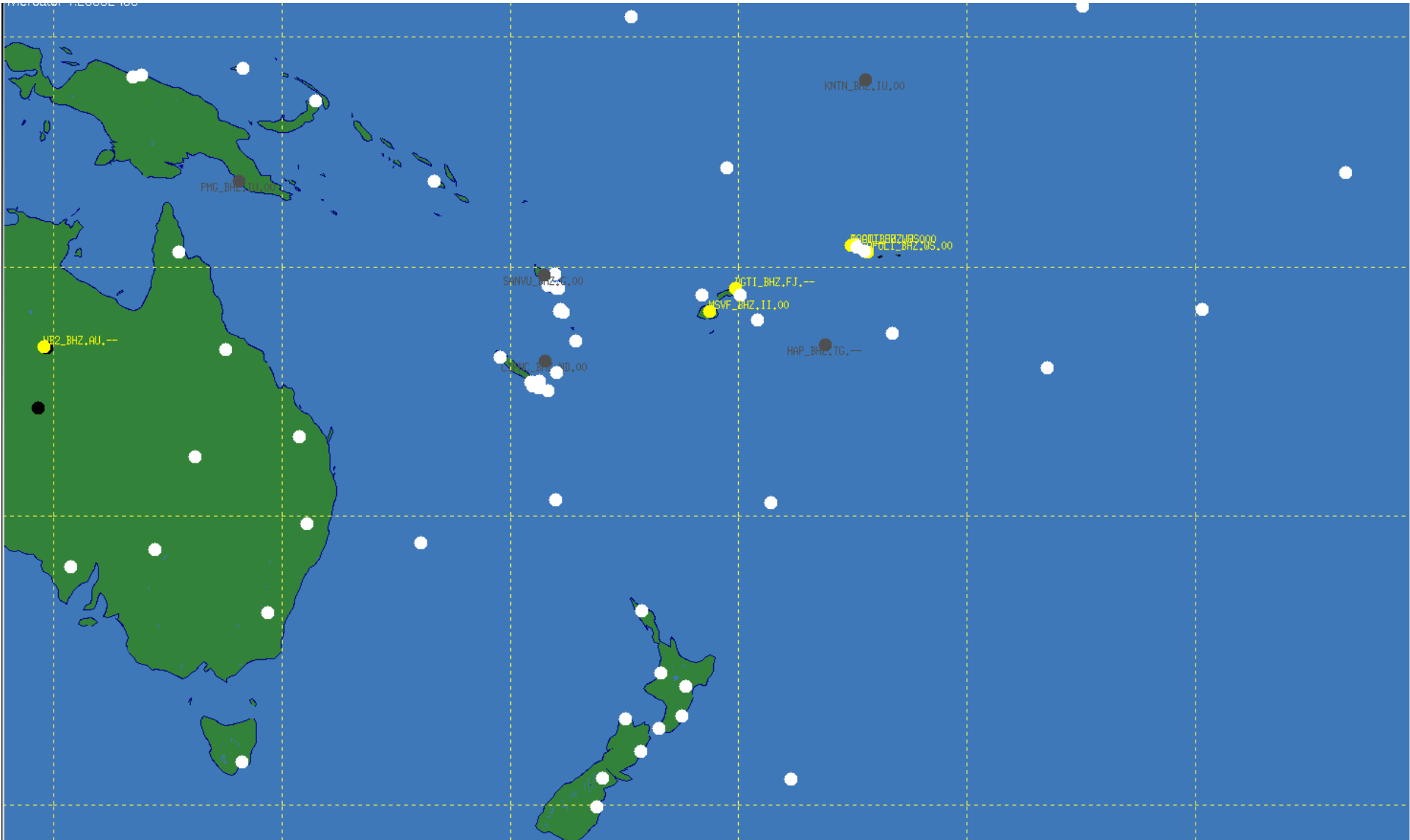
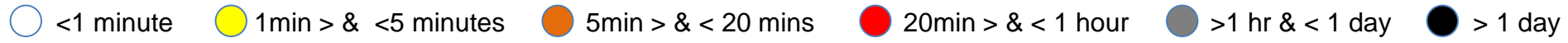
PTWS TSP Report: Pacific Tsunami Warning Center

Charles McCreery, Stuart Weinstein
Director, Deputy Director
NOAA Pacific Tsunami Warning Center

Laura Kong
Director
International Tsunami Information Center

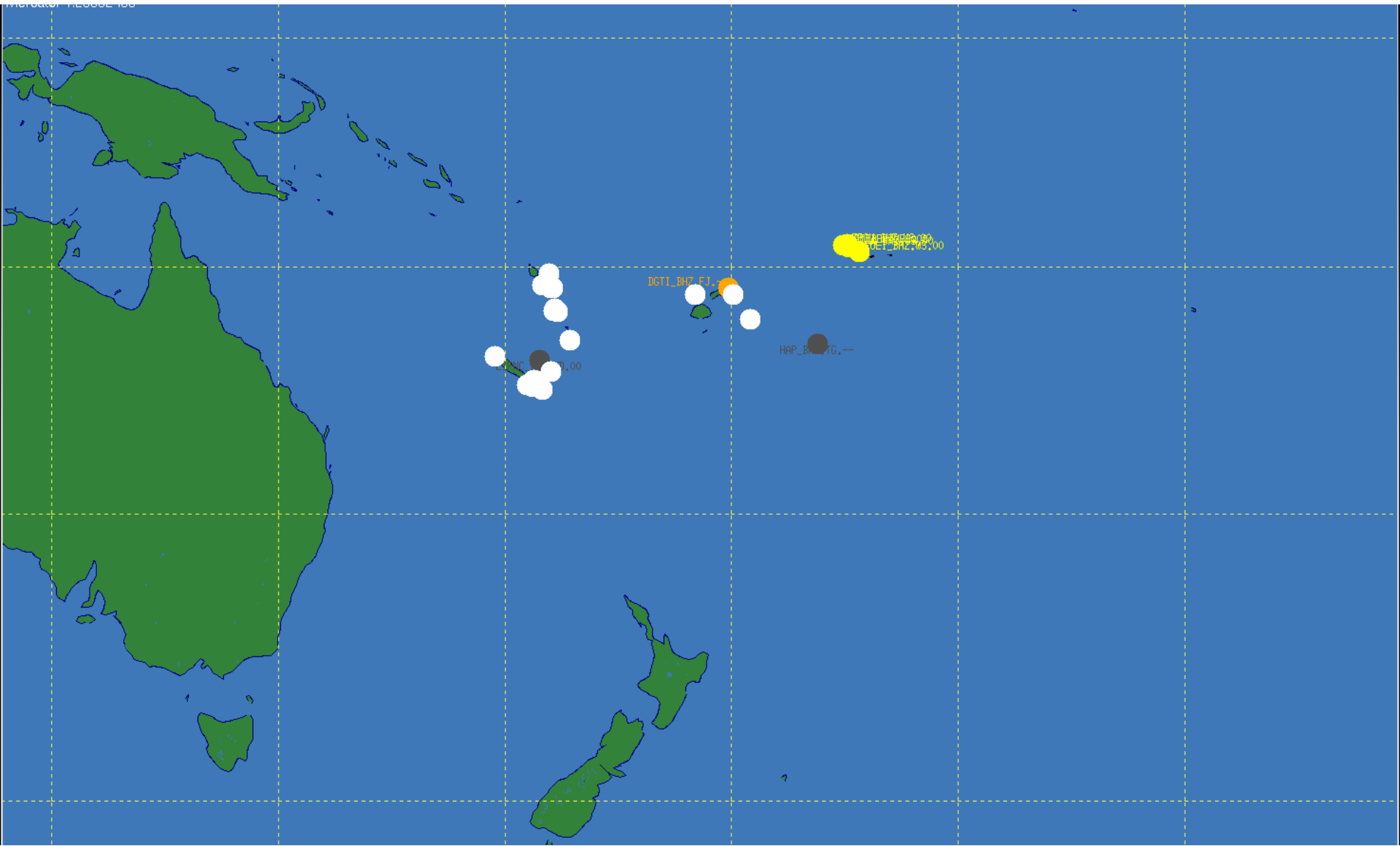


SW PACIFIC SEISMIC STATIONS CONTRIBUTING DATA

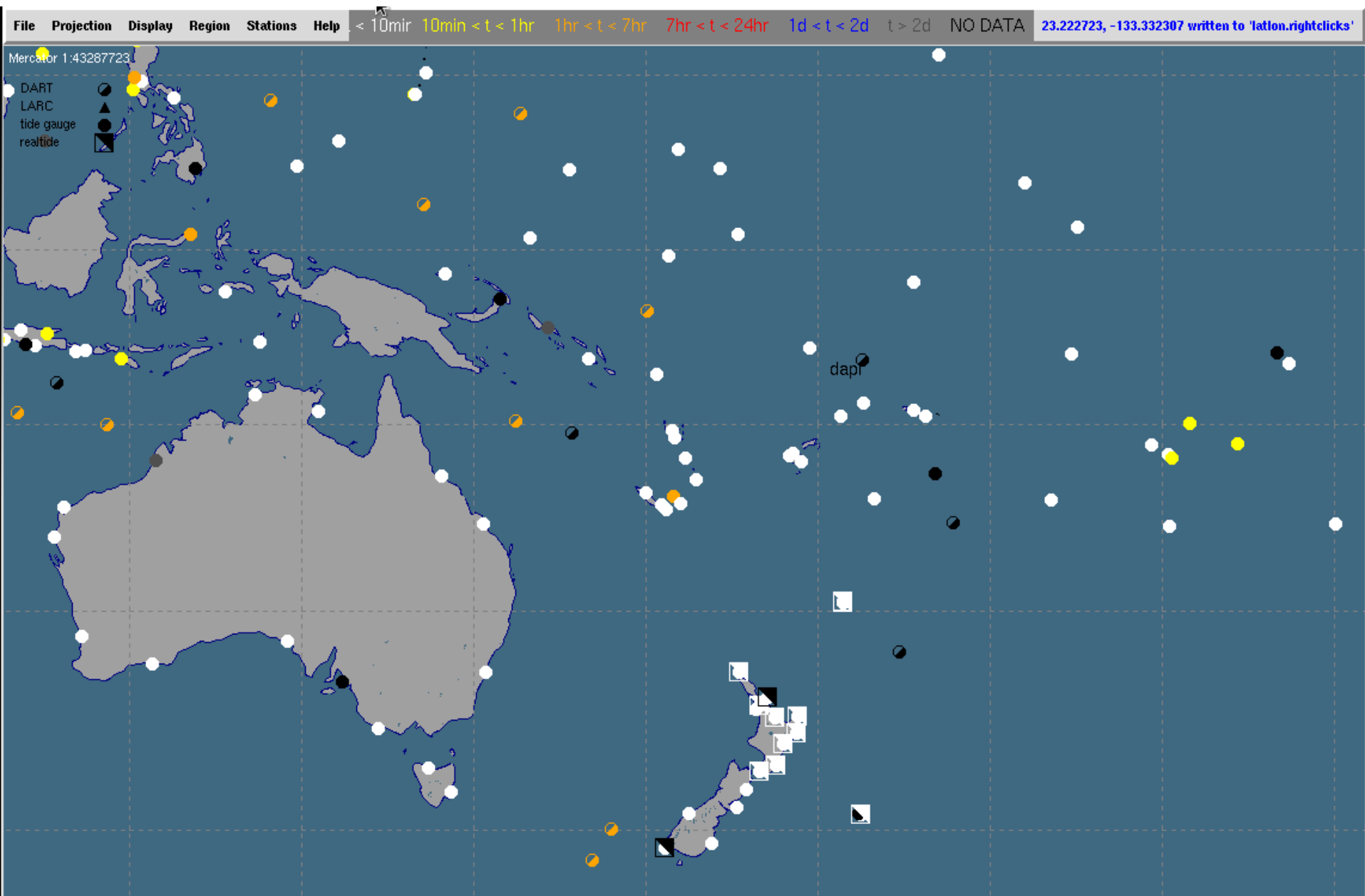


ORSNET SEISMIC STATIONS NOW CONTRIBUTING DATA

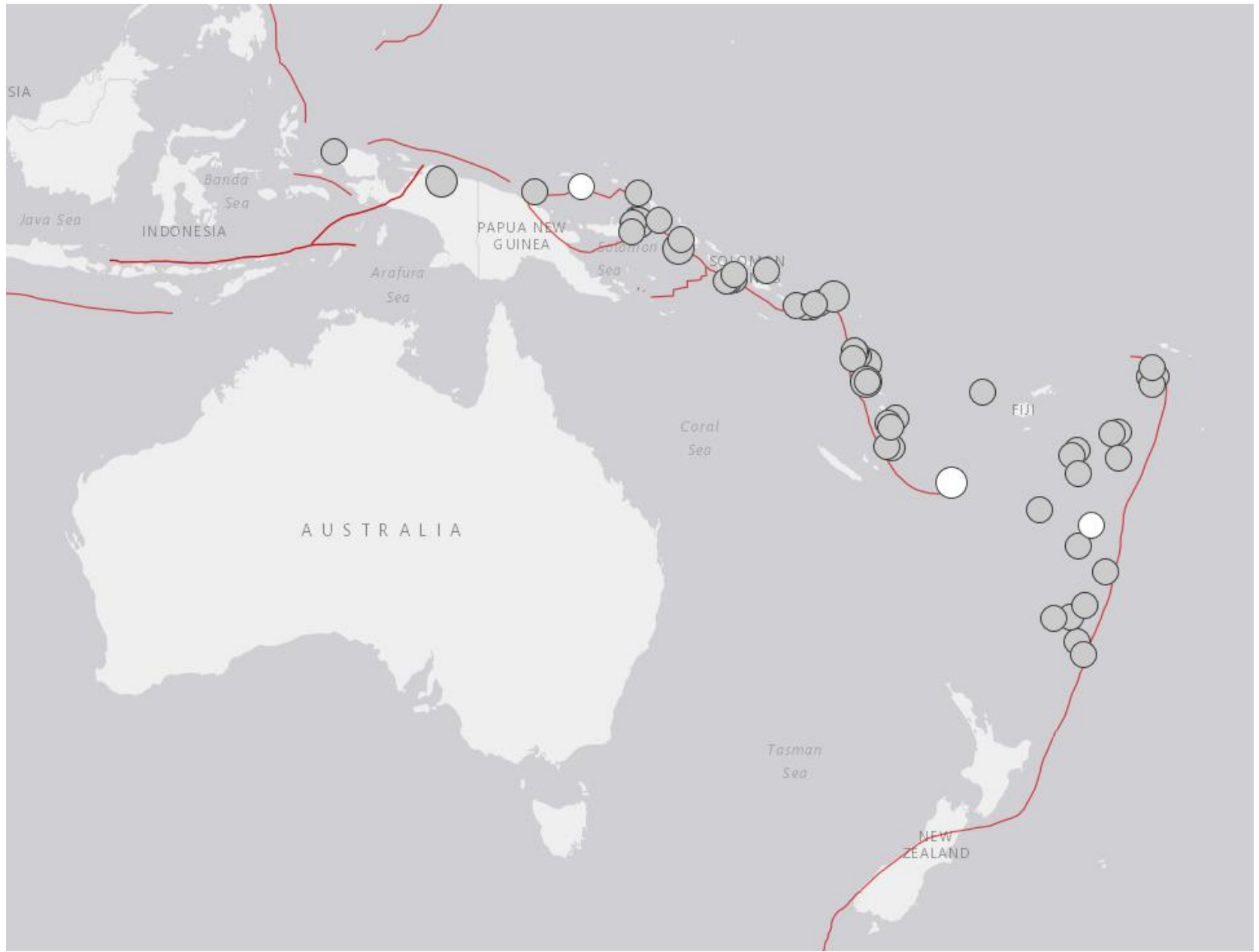
○ <1 minute ● 1min > & <5 minutes ● 5min > & < 20 mins ● 20min > & < 1 hour ● >1 hr & < 1 day ● > 1 day



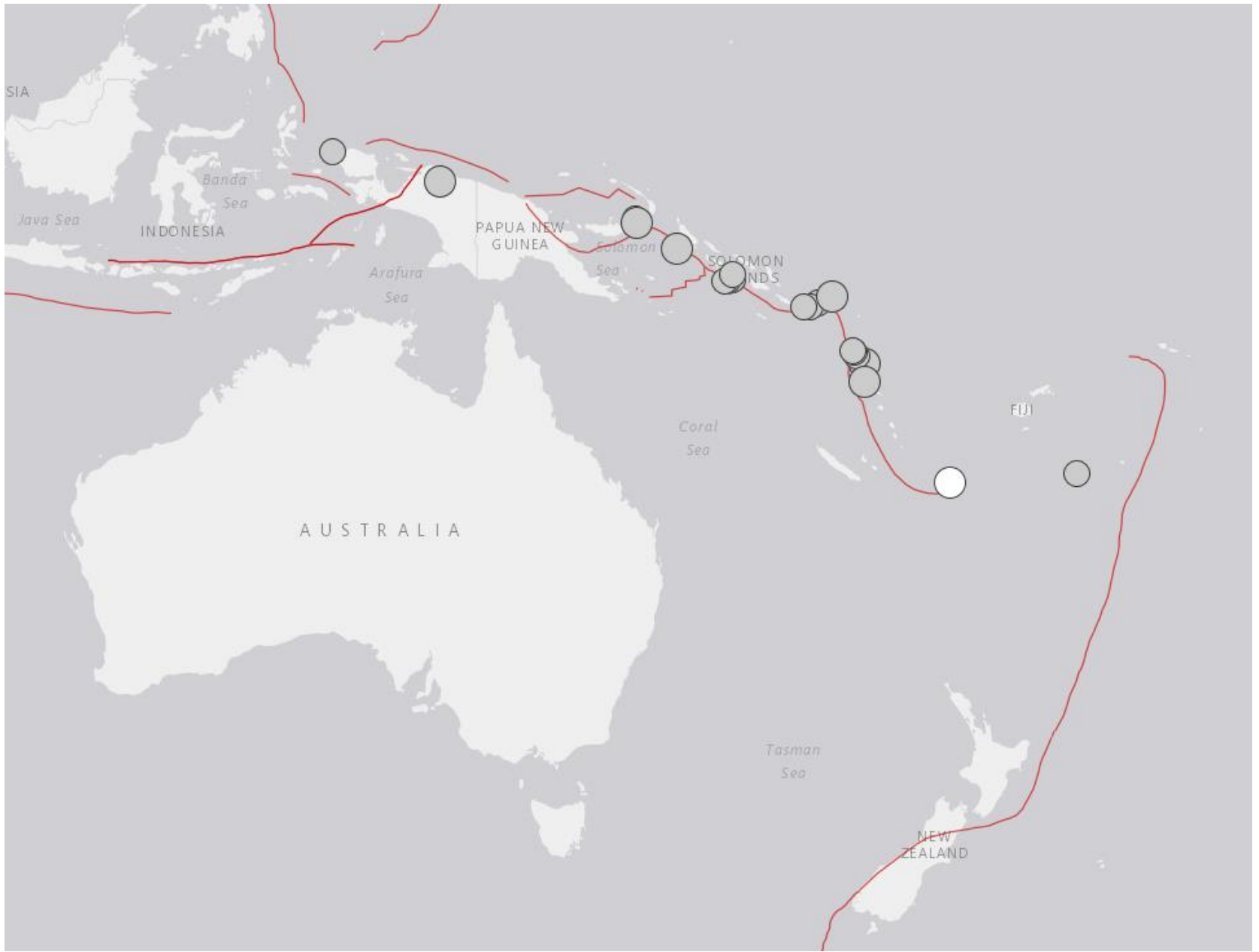
SEA LEVEL STATIONS CONTRIBUTING DATA



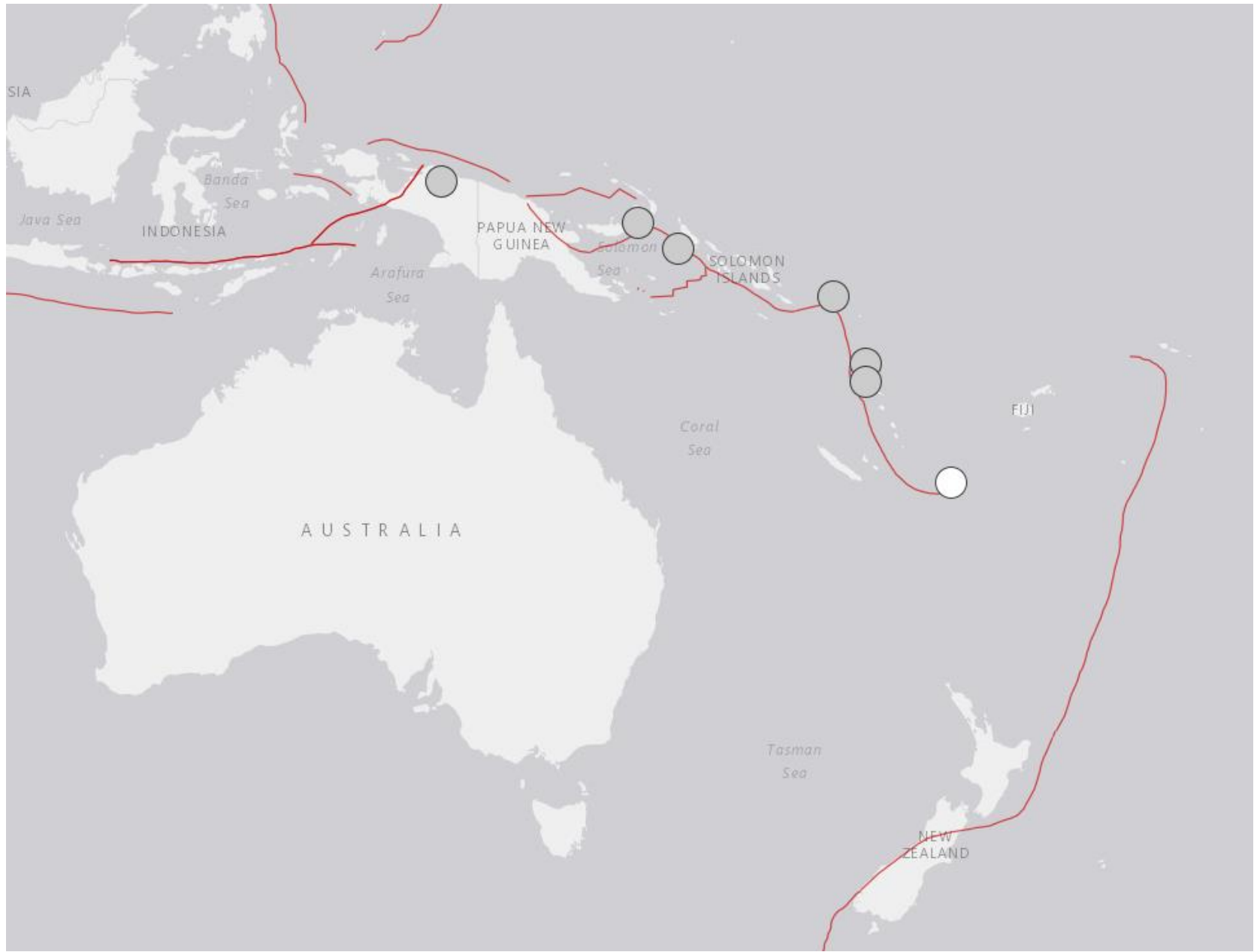
May 1, 2015 – August 20, 2016 Mw ≥ 6.0



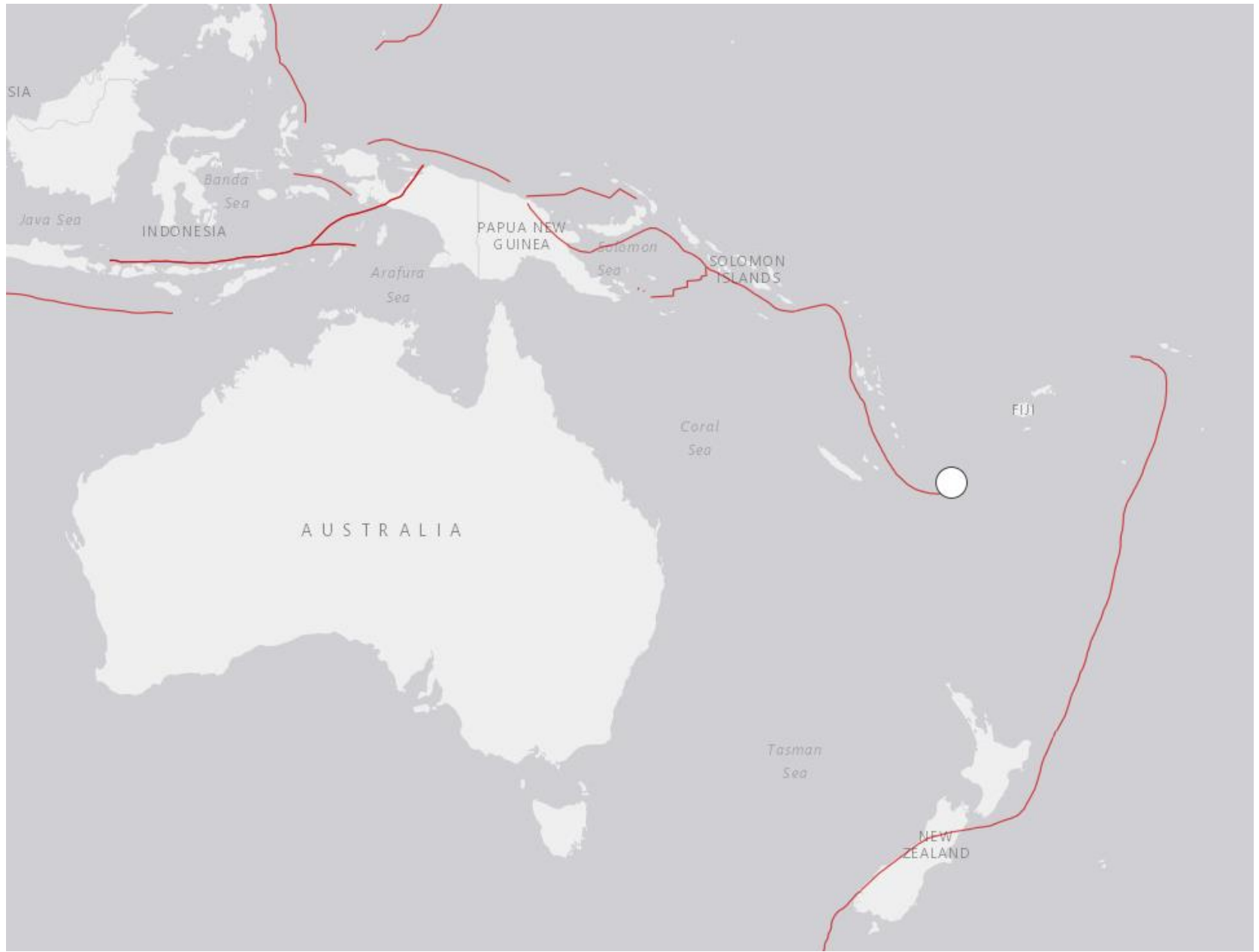
May 1, 2015 – August 20, 2016 Mw ≥ 6.5 (20 eqs)



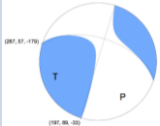
May 1, 2015 – August 20, 2016 Mw ≥ 7.0



August 12, 2016 01:26 UTC Mw=7.2



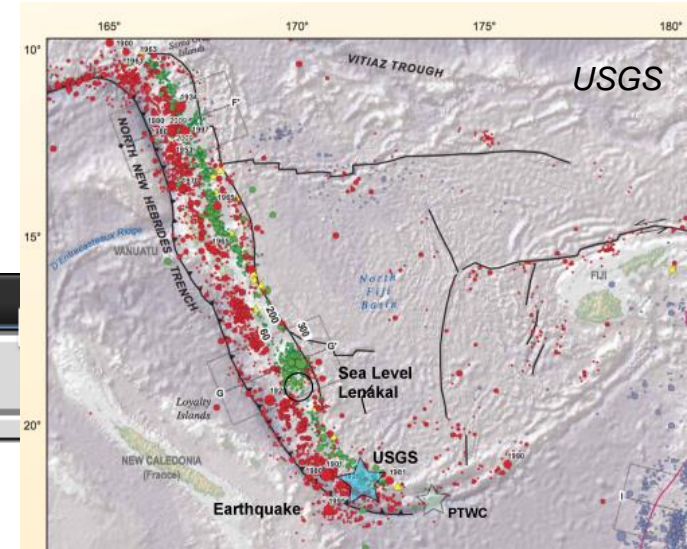
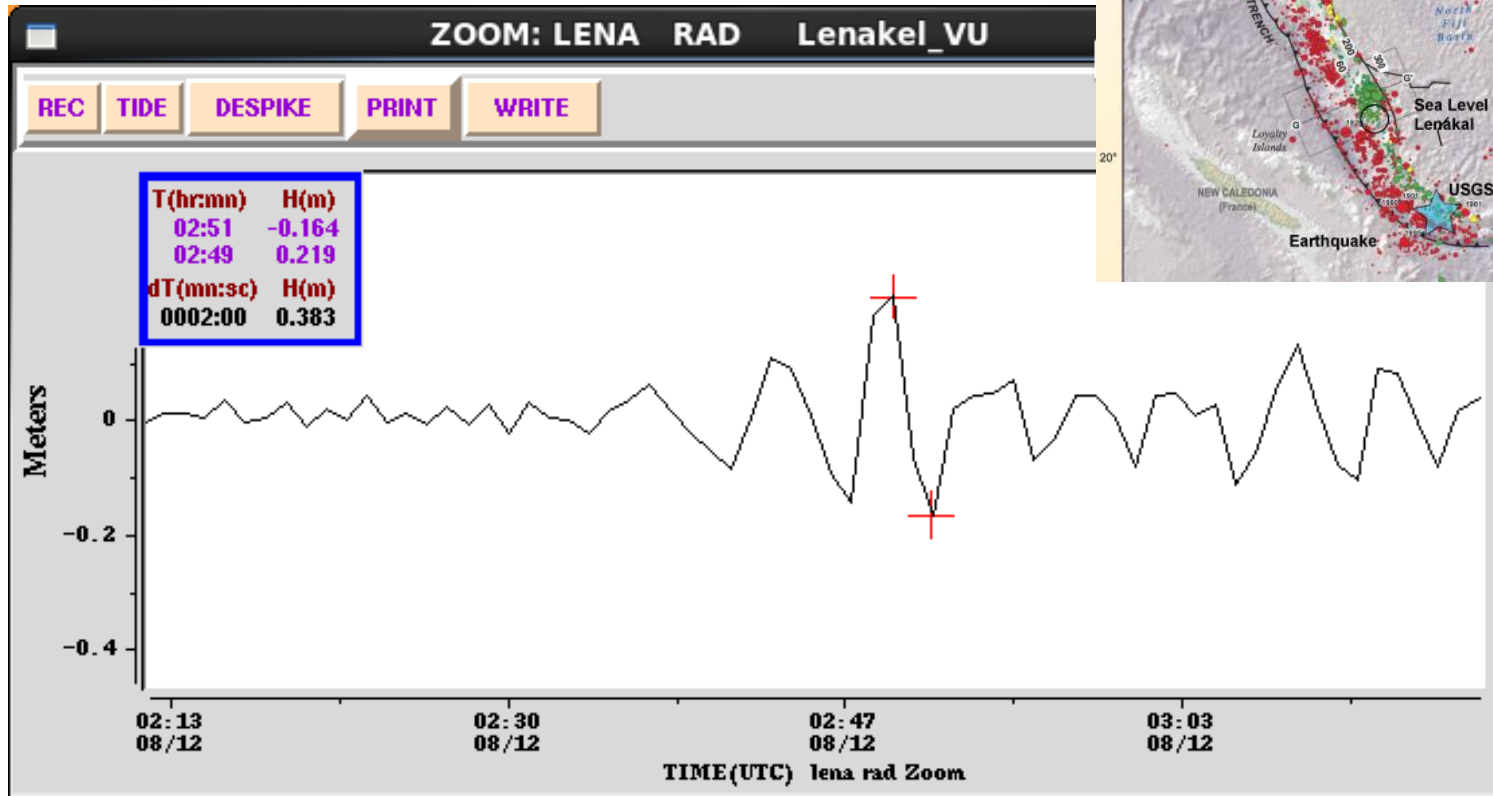
PTWC Timeline for August 12 Loyalty Is Event

| TIME (UTC) | ELAPSED | EVENT |
|------------|-----------|--|
| 01:26:35 | 00:00:00 | Earthquake Occurs (NC IRD reported felt by a very few persons) |
| 01:28:10 | 00:01:35 | PTWC Alarm Sounds |
| 01:32:30 | 00:05:55 | Observatory Message Issued (triggers CISN) |
| 01:32:50 | 00:06:15 | PTWS Threat Message #1 Issued (Mw 7.6) |
| | ~00:20:00 | PTWC W-phase CMT Completed  (Mw 7.2, strike-slip) |
| | ~00:25:00 | RIFT Tsunami Model Run – Indicates No Threat |
| 01:55:53 | 00:29:18 | PTWC Issues Final Threat Message |

Note: Many people noted not seeing message products on the PTWC website for this event as well as for the August 19 South Georgia Island event (PTWC Caribbean products). However, both sets of products were visible with some browsers (i.e., seen on IE, but not on Chrome). We are troubleshooting issue.

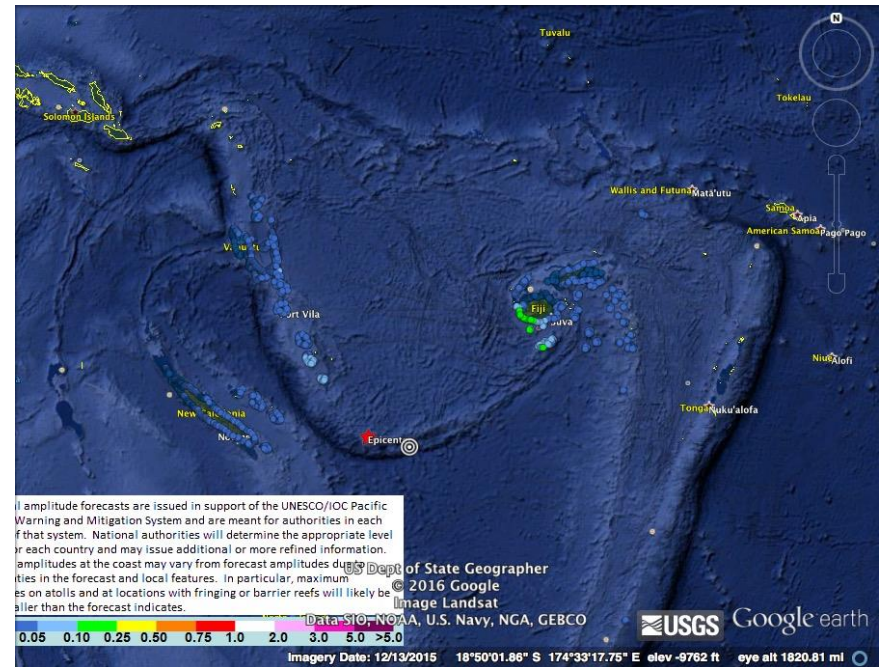
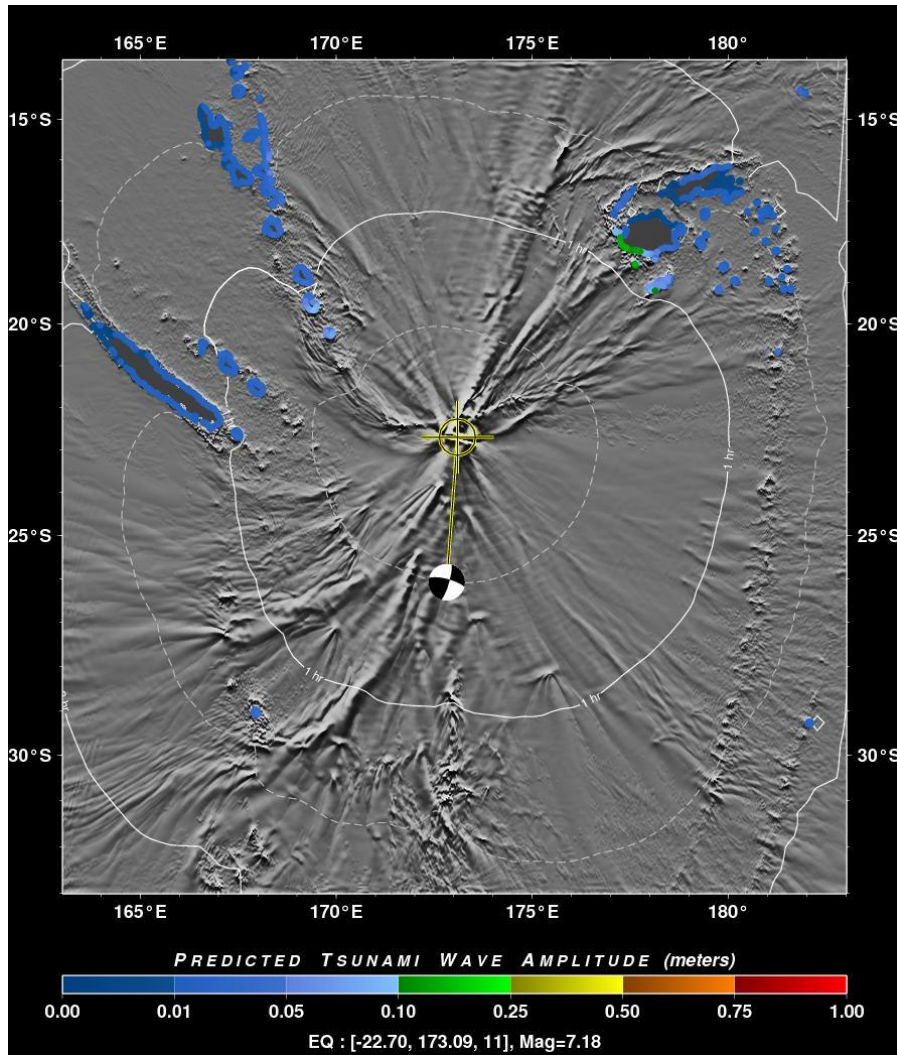
Lenakel, Vanuatu: 38-cm P-P Tsunami

No tsunami signals were recorded at other nearby sea level gauges.



JICA-installed station, now on GTS

RIFT model - no threat

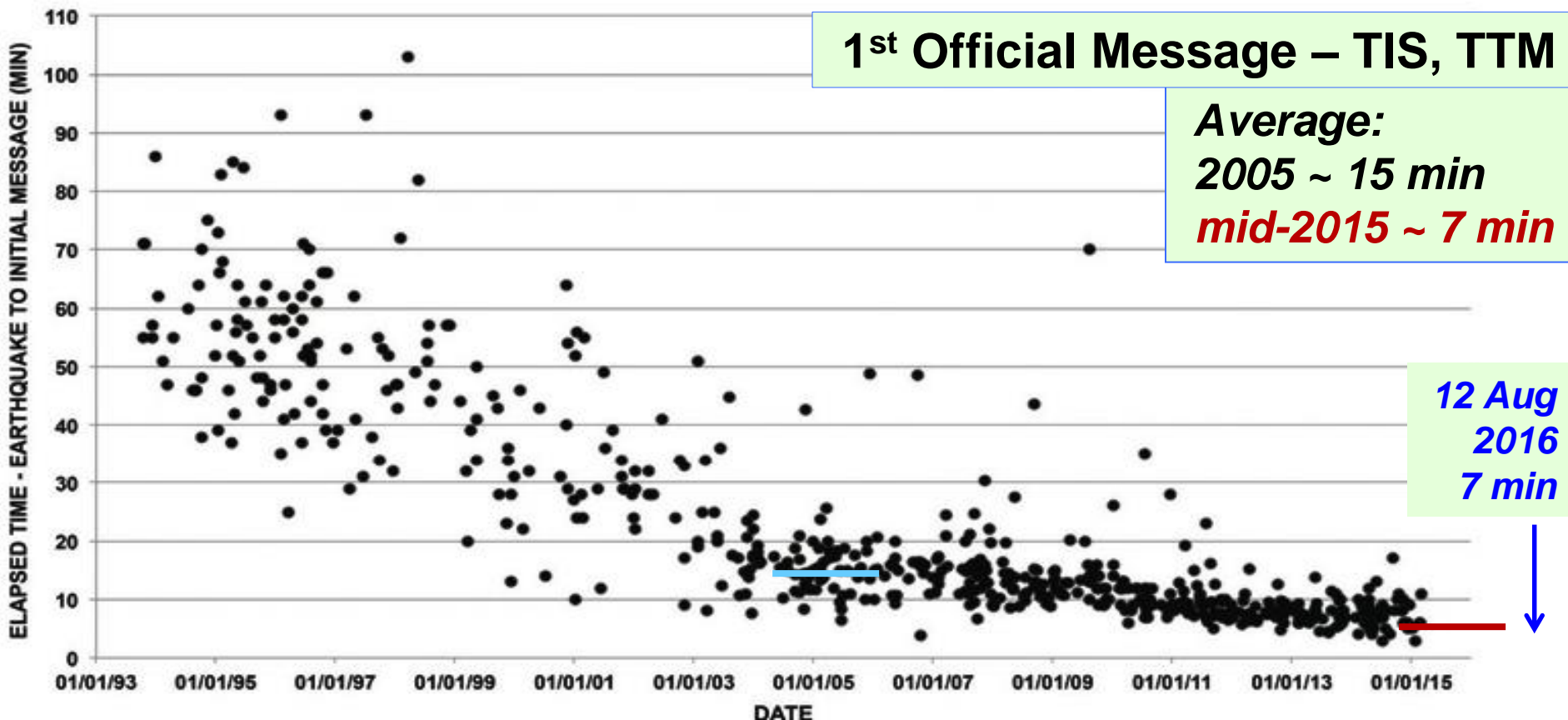


- WCMT earthquake source
- KMZ file
- Raw Coastal Amplitude Forecast



PTWC Pacific Response Time, 1993-2015

**Earthquakes:
Denser Networks, Higher Quality Data, Better and
Faster Methods => Faster Detection & Response**



TW Tools - status

- ❑ **PTWC web site:** not updated for 2014 change
 - 'About PTWC Pacific Ocean messages' old
 - No American Samoa / Guam / CNMI US domestic products
- ❑ **CISN**
 - 1st Msg (few min before TIS, TTM) = PTWC EQ Observatory Msg
 - PTWC Text Message not showing (only US NTWC)
- ❑ **Tide Tool**
 - Last: Setup_TideTool_v10.32_20151124.exe
 - Latest Tide Tool v10.34 (May) / COMP_META (June)
 - Next update Sept 2016 (ITP-Hawaii)
- ❑ **TTT:** Last: Setup_TTT_v3.3_20151015.exe
- ❑ **RANET SMS:** possible reinstatement (Ed)
- ❑ **Pacific Coastal Impact DSS Tool: 2017**
 - ITP-Hawaii 2016: Prototype for feedback



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Thank You

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