
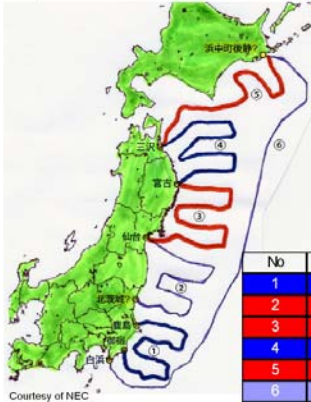


**REDMOND WASHINGTON COMPANIES SUPPLY  
KEY SENSORS FOR TSUNAMI WARNING SYSTEM IN JAPAN**

Paroscientific, Inc. and Quartz Seismic Sensors, Inc. of Redmond, Washington have been selected to supply high-precision pressure sensors and accelerometers for the Japan Trench Tsunami Observation System. This system, paid for by the Japanese government to better understand earthquakes and tsunamis, consists of over 5,000 kilometers of sea-floor cables and 150 sensor nodes that provide critical pressure and seismic measurements for the world's most advanced earthquake/tsunami monitoring network. Paroscientific pressure sensors have been used for over 30 years to detect tsunamis in the world's oceans. Technological breakthroughs\* in sensor measurement capability are now being applied to both cabled and buoy-based tsunami detection systems.

**Disaster Warning System for Japan**

Each cabled node contains:  
 2 Nano-Resolution Depth Sensors for Tsunami Measurements &  
 3 Nano-Resolution Accelerometers for Seismic & Tilt Measurements

**Japan Trench Observation & Tsunami Warning System.  
Over 5200 km of Cable and 154 Instrument Stations.**

No	Location	Installation	Length (km)
1	Boso	2013	755
2	Fukushima	2014	800
3	Myagi	2014	800
4	N. Sanriku	2013	910
5	Tokachi	2014	800
6	Outer Trench	2015	1200

Courtesy of NEC

Each node of the Japan Trench Tsunami Observation System will incorporate two Nano-Resolution Depth Sensors for tsunami detection and three Nano-Resolution Accelerometers for seismic and tilt measurements. The cabled system and additional deep ocean data buoys greatly expand upon the existing tsunami detection network in the region of Japan at a total cost of approximately \$500,000,000. Nano-resolution sensors will improve the identification and prediction of the magnitude, location and path of natural disasters such as earthquakes, tsunamis and severe weather with improved accuracy that will lead to increased warning times.

\* See [http://www.paroscientific.com/Nano\\_Resolution\\_Data\\_Sheet.pdf](http://www.paroscientific.com/Nano_Resolution_Data_Sheet.pdf) for further information on nano-resolution technology and [http://paroscientific.com/UW\\_nanopress\\_flyer\\_sm1.pdf](http://paroscientific.com/UW_nanopress_flyer_sm1.pdf) regarding testing of nano-resolution technology on the MARS Observatory through a partnership between Paroscientific, Inc., NOAA and the University of Washington

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