Status:	In progress	Completed

# Question from the Community

Name	Helen Janiszewski		
Date of Contact	8/1/16		
Date of Contact	8/2/16	Completion date	
Experiment	Cascadia		
IIC Affected & Contact	SIO, WHOI		
Stations Affected	All stations		
Contact Information	Helen Janiszewski, helenj@ldeo.columbia.edu, LDEO		

### Summary:

Helen J. brought up the inconsistency of Cascadia Initiative DPG polarities. The WHOI DPGs and LDEO APGs have positive directions defined similarly. However the SIO DPGs have positive direction defined opposite to that of the WHOI DPGs, where the vertical component of the seismometer lines up in polarity with the DPG.

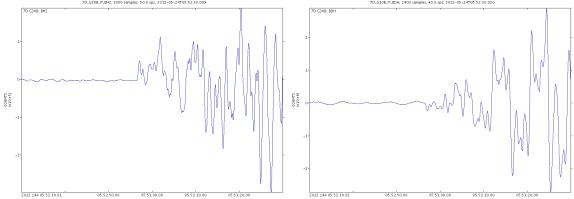
## Steps Taken:

Date	Action
8/1	Helen J. contacts OMO with question about APG/DPG polarities in Cascadia.

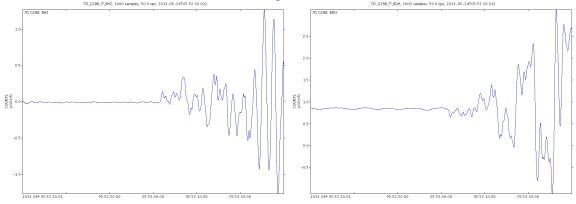
### **Year 2 Stations (2012-2013)**

One minute recording of the Sea of Okhotsk 8.3 earthquake on 2013-05-24 05:44:48, recorded from 05:52:30 to 05:53:30

on WHOI station G30B on the vertical (left) and the DPG (right) channels:



on a SIO station G28B for the same time period:

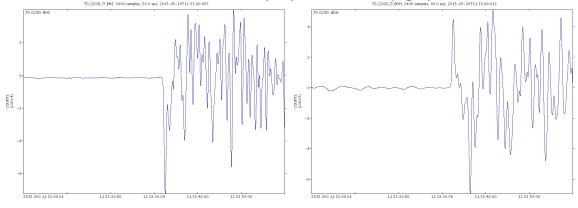


https://service.iris.edu/irisws/timeseries/1/query?net=7D&sta=G30B&cha=BDH&start=2013-05-24T05:52:30&end=2013-05-24T05:53:30&output=plot&loc=--

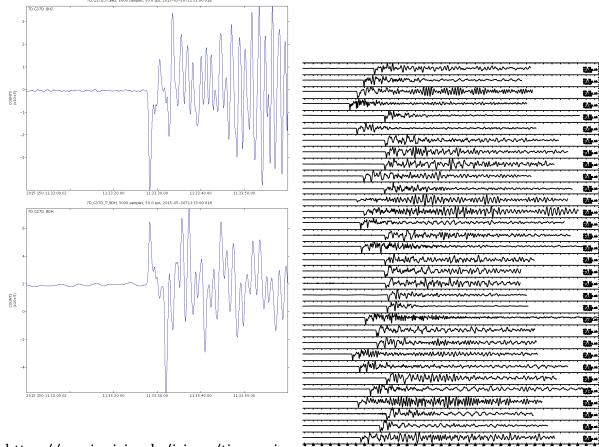
#### **Year 4 Stations (2014-2015)**

One minute recording of the Chichi-shima, Japan M7.8 earthquake on 2015-05-30 11:23:02, recorded from 11:33:00 to 11:34:00

on WHOI station G20D on the vertical (left) and the DPG (right) channels:



#### on a SIO station G37D for the same time period:



https://service.iris.edu/irisws/timeserie s/1/query?net=7D&sta=G33D&cha=BDH&start=2015-05-30T11:33:00&end=2015-05-30T11:34:00&output=plot&loc=--

All BHZ for Cascadia Y4: