Status:	In progress	

Question from the Community

Name	Anne Sheehan
Date of Community Member Contact	7/13/16
Dates of OMO/IIC Contact	7/13/16, 7/14/16, 7/22/16
Completion date	9/23/16
Experiment	HOBITSS
IIC Affected & Contact	LDEO
Stations Affected	All stations in YH.2014-2015
	Possibly stations in 7D.2014-2015
Contact Information	Anne Sheehan
	Anne.Sheehan@Colorado.EDU
	University of Colorado at Boulder

Summary:

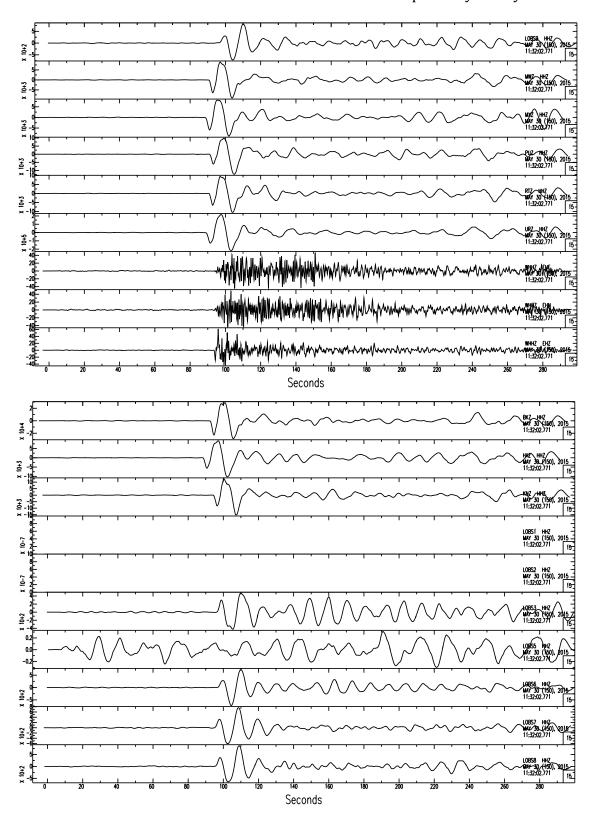
Possible polarity reversal in HOBITSS stations on vertical channels. LDEO stations in Cascadia Year 4 2014-2015 may also be affected. Attached plots on page 2 from Martha Savage by way of Anne Sheehan.

Steps Taken:

Date	Action
7/13	Andrew Barclay responded to inquiry.
7/14	Kasey Aderhold investigated polarities of both HOBITSS and Cascadia OBS
	and land stations. Figures on page 3-4.
7/19	Discussed question in person at LDEO site visit with Brent, Kasey, Andrew,
	and Jim.
7/20	Kasey received plots from Helen Janiszewski with vertical and APG
	component comparison for Cascadia Y4 stations, attached to end of this
	document.
7/22	Kasey requested data and confirmed polarities for HOBITSS and Cascadia
	Y4. Kasey sent in-progress community question form to PIs of HOBITSS.
7/28	Email from Andrew to Kasey to update on stations and discuss remedy,
	noted G02D as unaffected.
7/28	Email from Kasey to Andrew to include both G02D and G19D as unaffected
	by the polarity issue. Discussed SEED notation for remedy, discouraged
	changing the metadata.
8/10	Email from Anne to Kasey asking about the impact on horizontals.
8/11	Email from Kasey to Anne confirming that we are working on determining
	if the horizontals were also affected.

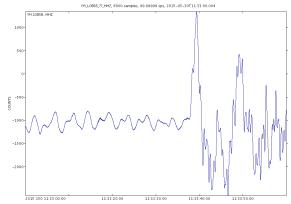
8/15	Email from Andrew to Kasey to update on cause of polarity flip.
8/19	Report sent from Andrew to Kasey to summarize findings. Email from
	Kasey to Andrew noting G19D as a polarity reversal again. Email from
	Andrew to Kasey confirming that noise obscured the arrival in his
	procedure and agreeing that it was not affected. Email from Kasey to
	Andrew asking about engineering/maintenance differences between
	G02D/G19D and other stations; if we can determine if stations like FS15D
	and G25D needed to be flipped since they did not have resolvable arrivals.
8/20	Email from Andrew to Kasey summarizing all findings in both Cascadia and
	HOBITSS, confirming that there were not records of which connectors
	were rewired, reviewed stations without previous observations, added
	Gorda station BB631 into corrections and attached a revised report.
8/22	Email from Brent to LDEO to determine if issue can be tracked well and
	that there are enough resources to work out a solution in a reasonable
	amount of time.
8/23	Several e-mails and phone calls in between Brent, Kasey and Andrew about
	handedness to decide whether horizontals needed to be flipped or changed
	to preserve the left-handed standard.
8/30	Email from Andrew to Mea to announce imminent delivery of the data. Mea
	confirms the old archive can be removed and the new one autoarchived.
9/19	Last resubmitted channels archived. Mea e-mails to confirm archival has
	completed for Cascadia.
9/20	Mea confirms Z5.BB631 has completed the archival process.
9/23	Kasey reviewed data for Cascadia Y4, HOBITSS, and Gorda and sends
	upload verifications to Andrew. Announcement about the polarity change
	in Cascadia data will be announced via OBSIPtec and recorded on the
	OBSIP website. Community question form will be sent to PIs.

Form #3 Prepared By: Kasey Aderhold

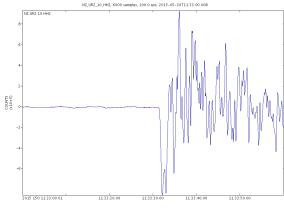


Event: Bonin Islands Region 2015-05-30 M7.8 Depth 664km, seismograms are all 1 minute in length from 2015-05-30 11:33:00.0 to 11:34:00.0 UTC.

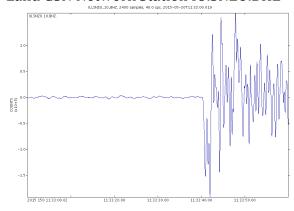
New Zealand Stations Ocean LDEO OBS Station YH.LOBS8.HHZ



Land New Zealand Network Station NZ.URZ.HHZ



Land GSN Network Station IU.SNZO.BHZ



Cascadia Stations

Land TA Station TA.D03D.BHZ

Form #3 Prepared By: Kasey Aderhold

