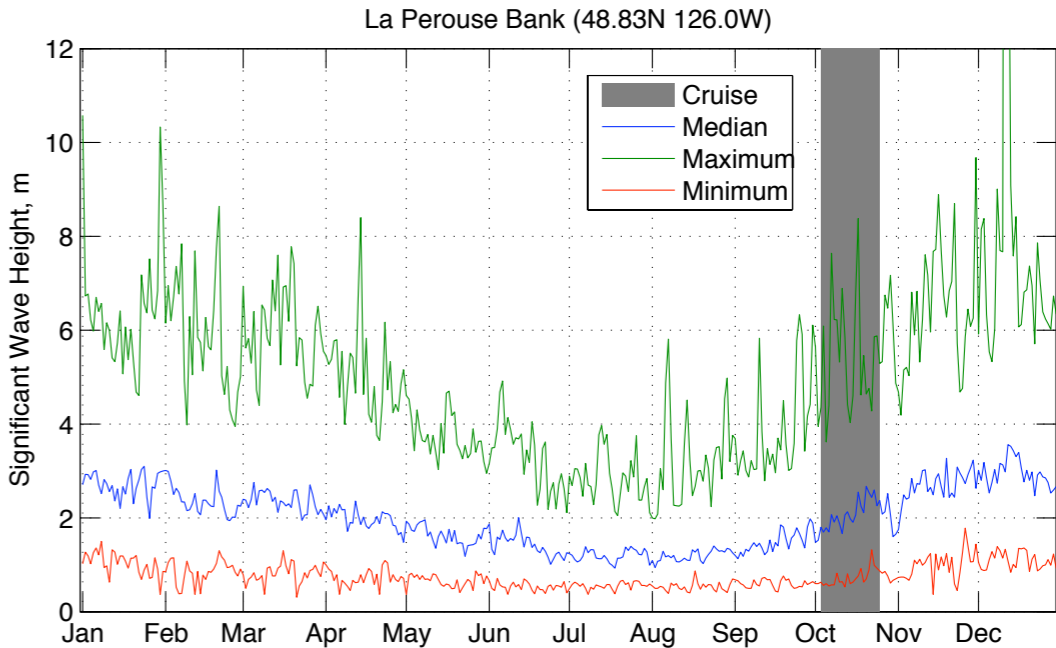
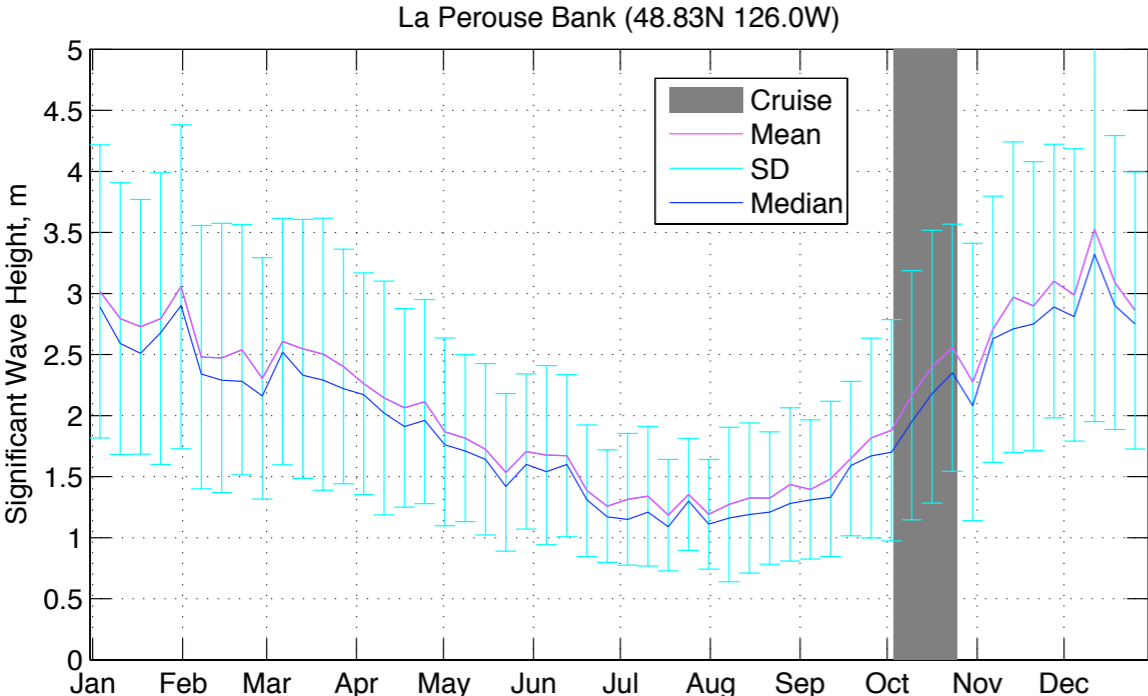
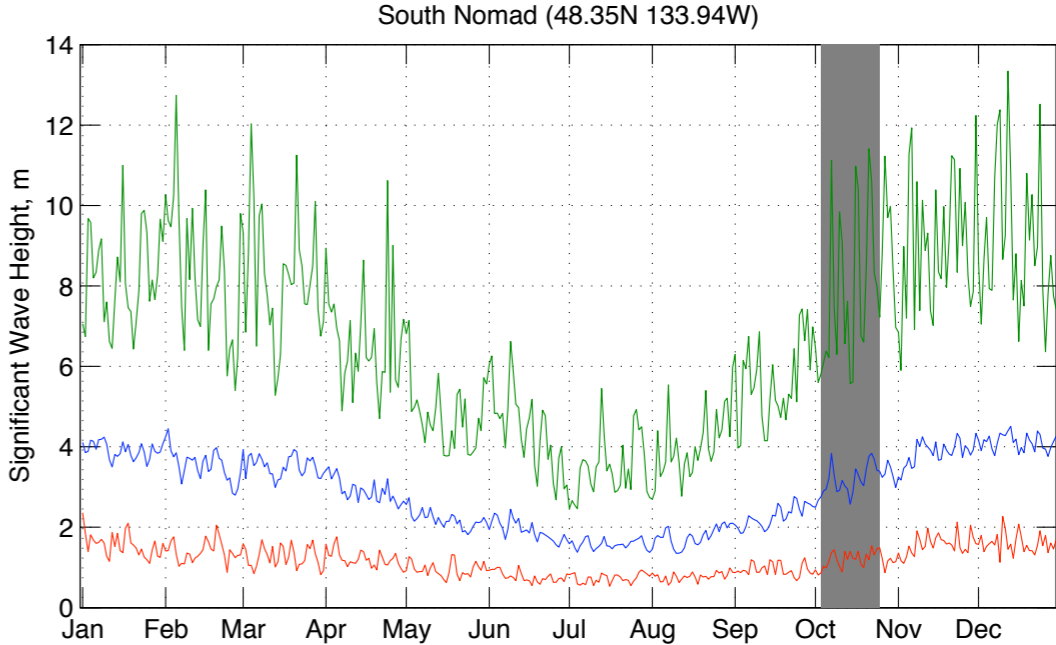
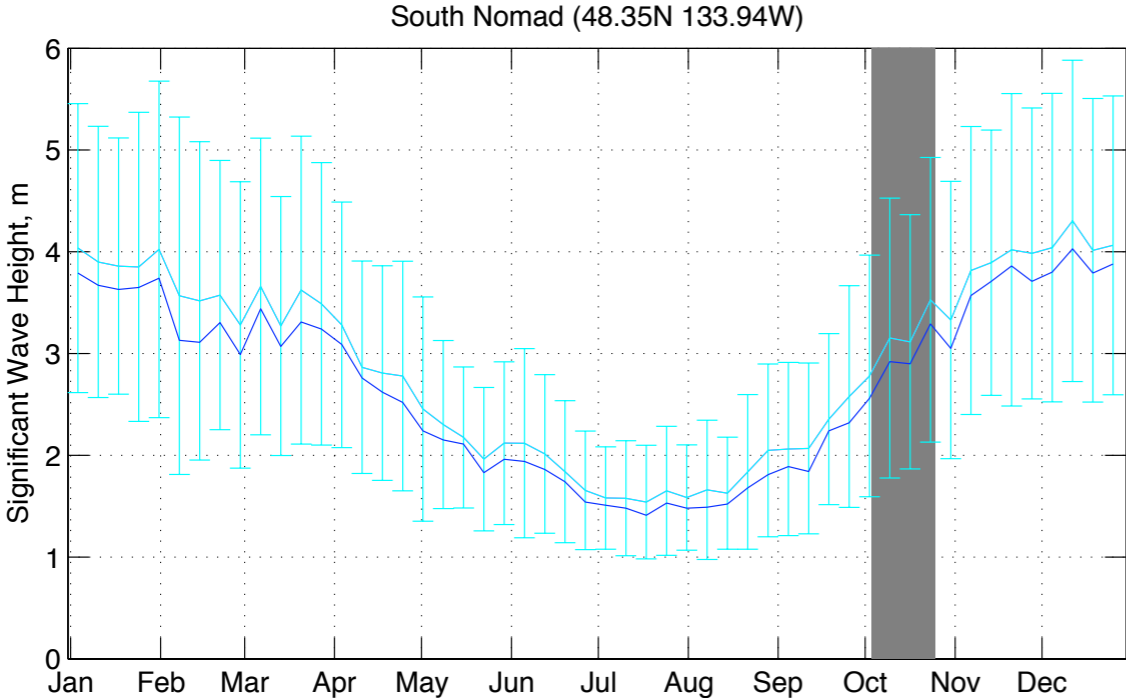


Significant wave heights in the northeast pacific throughout the year. The second half of October can look a lot like February-March in this region.



Notes

Much of the northeast Pacific has a limited weather window, with May - October being the nominal limits (June-Sept is more realistic)

- Instrument turnaround takes a finite amount of time. Nominally 1-2 months.
- Renting facility space in the PNW would be useful, avoids shipping and lost time.
- Primary question: What is the timeline?
 - Advantages of a longer timeline
 - Refurbish instruments
 - Analyze data
 - Allows redesign of the experiment
 - Allows filling of gaps due to data loss
 - Need time to look at data in order to respond to above
 - Disadvantages of a longer timeline
 - Impact on science objectives at other geographic sites.

Timeline A (Geoff showed this one)

Notes:

No time for refurbishing or analysis between deployments, unless summer months are used. Months are not specified; appears as though deployment or recovery may be occurring out of weather window (i.e., recovery end of 2012).

- 2010-2011 first 1/2 of OBSs, most TA
 - The 2010 deployment may have to be mid to late summer to allow fabrication.
- 2011-end 2012 full array #1
 - Recovering and deployment in 2011 requires either that OBSs are not on the seafloor during some of the summer months OR that the offshore facility is 1/2 on the seafloor and 1/2 on the shelf in order to be on bottom during the summer months.
- 2013-early 2014 full array #2
 - (or do some OBSs advance elsewhere?)
- 2014 onward: What happens TA/OBS?
- 15 mo deployment, 3-6 mo turnaround

- This deployment schedule is not logistically feasible

Timeline B

Notes:

Full deployments of OBS facility with time for refurbishing, analysis, redesign. Deploy May, recover Sept., October. ~16 months of bottom time, 6 months between deployments. Missed earthquakes.

- Summer 2010 Deploy -- Recover fall 2011
 - Reconnaissance/aperture with ~1/2 backbone OBS
 - Refurbish instruments/look at data
- Spring 2012 Deploy -- Recover fall 2013 (~16 months)
 - Reconnaissance/aperture with full backbone OBS
 - Refurbish instruments/look at data
- Spring 2014 Deploy -- Recover fall 2015
 - Focus with flex array
 - Backbone array could move on at this time
- 2015 End of Cascadia initiative
- ~44 months of data (32 months of full array)

Timeline C

Notes:

Minimal time for refurbishing, year long delay in responding to analysis. Unlikely to fill data gaps

- Summer 2010 Deploy -- Start recovering spring 2011
 - ~1/2 backbone OBS
- Deploy summer-fall 2011 -- Start recovering spring 2012
 - Minimal time for refurbishing instruments
 - No examination of data for this redeployment
- Deploy summer-fall 2012 -- Recover fall 2013
 - Minimal time for refurbishing instruments
 - This redeployment can respond to data analysis and instrument loss
- Approximately 36 months of data (24 months of full array)

OBSIP Unknowns

Timeline

Number of shallow instruments

The number for Cascadia is not the number for East Coast or Alaska or ...

Implication is that NSF may have to provide funds down the road for reconfiguring instruments

Effect of other costs on number of OBSs

Purchase/renting of ROV

Testing of burial