Observations of the "blob" from NANOOS: info over time and over depth

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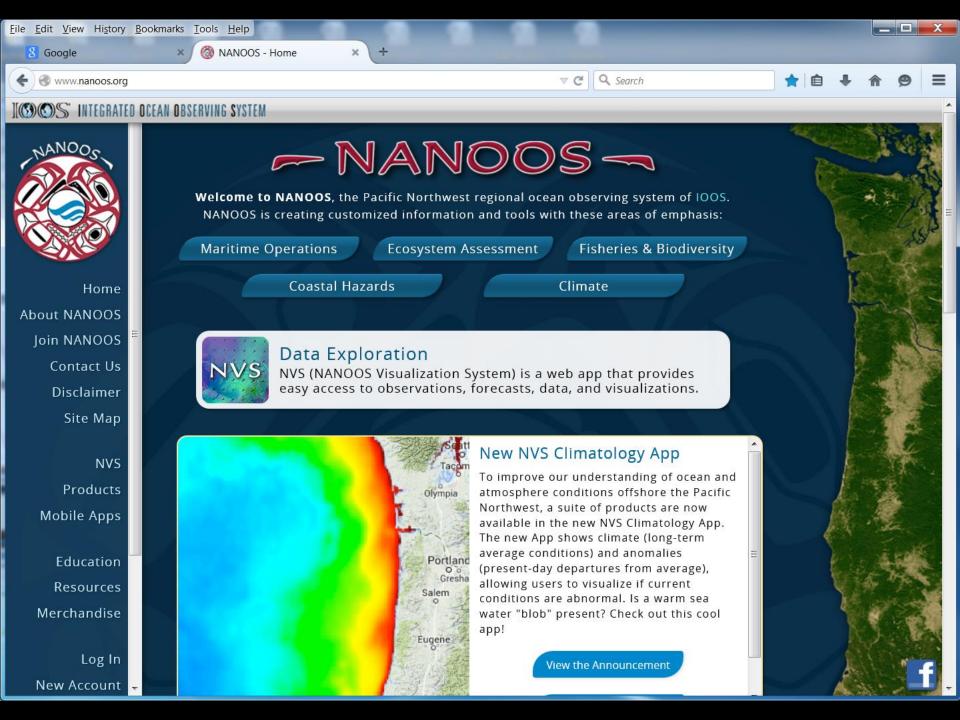
²DOGAMI, Newport, OR, USA

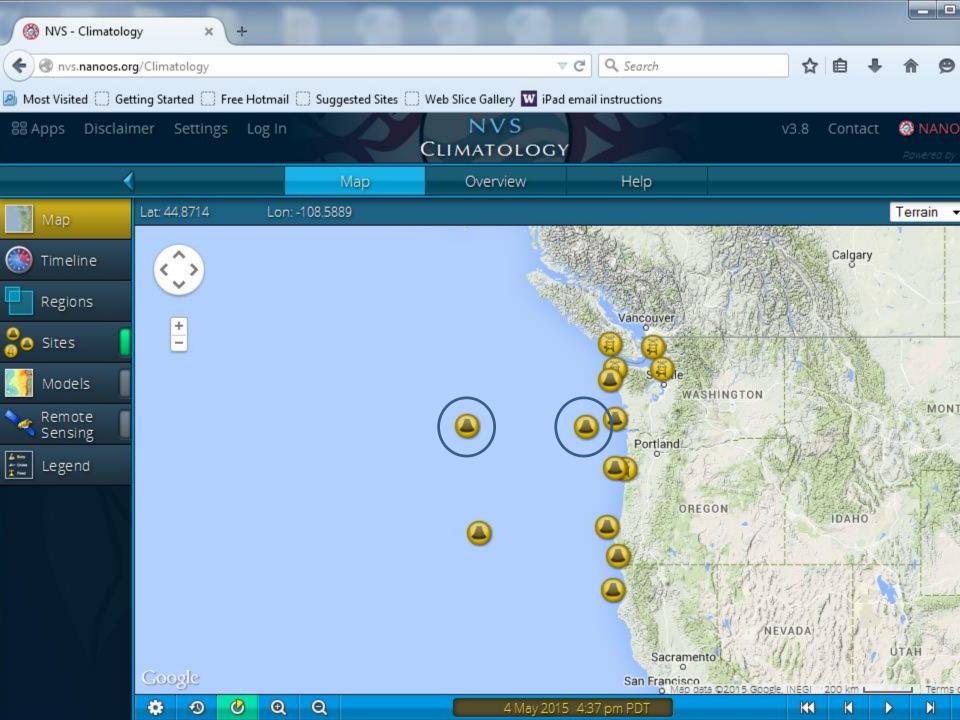
³Oregon State University, Corvallis, OR, USA





5 May 2015 La Jolla, CA



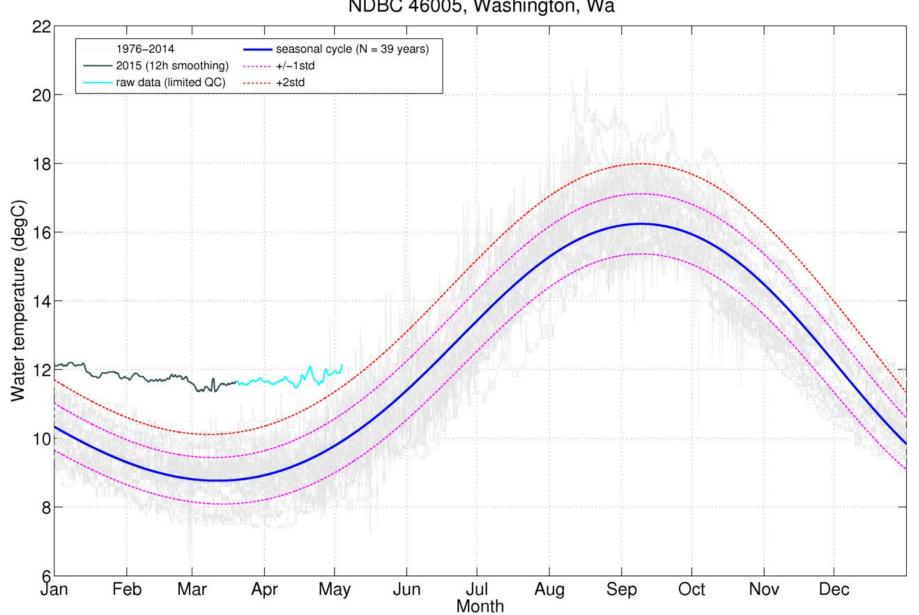




2015 data



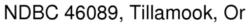


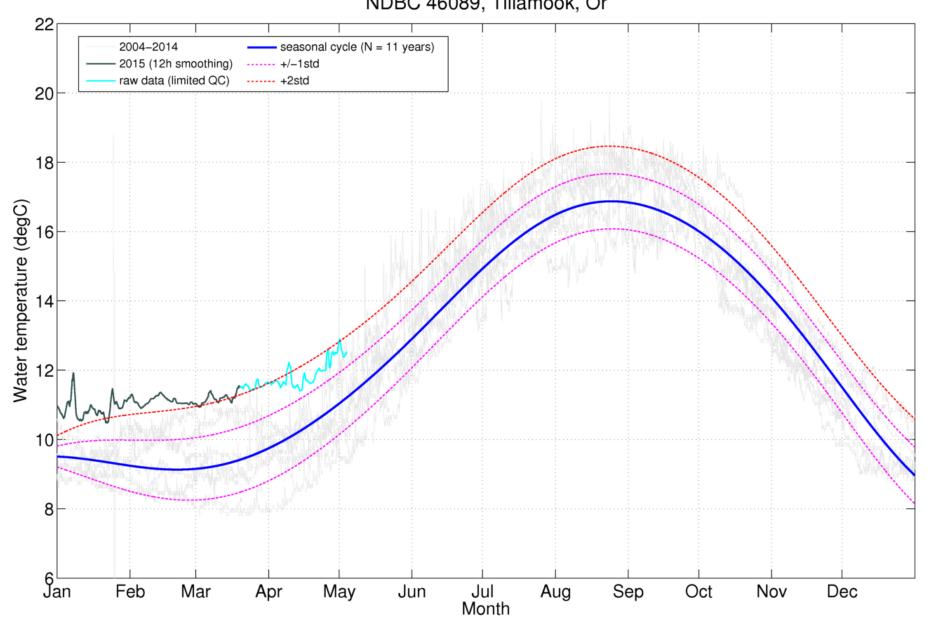




2015 data

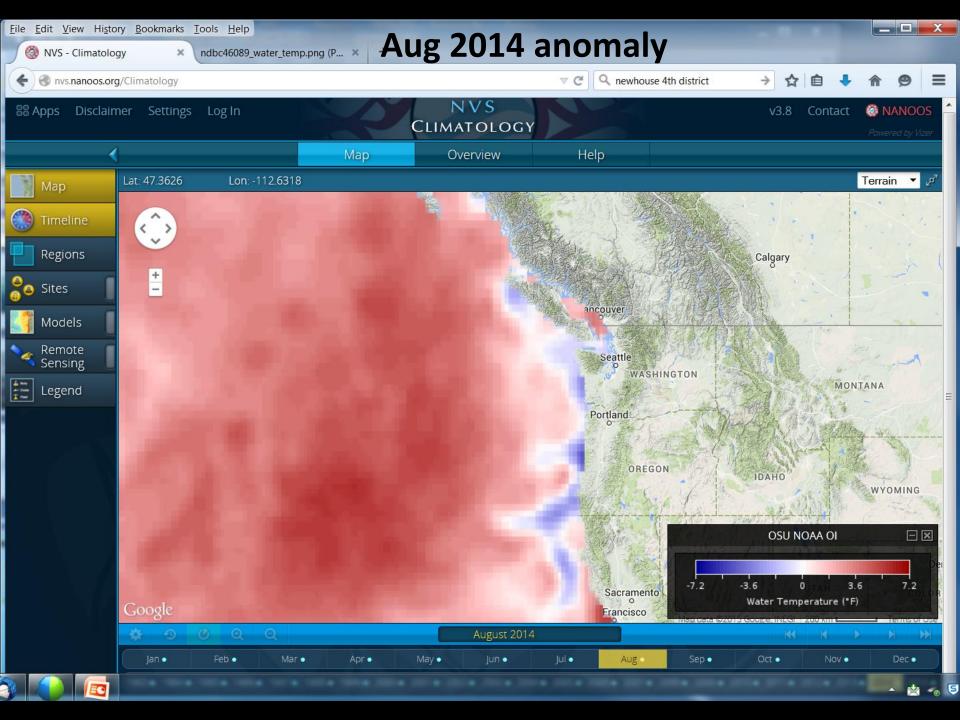


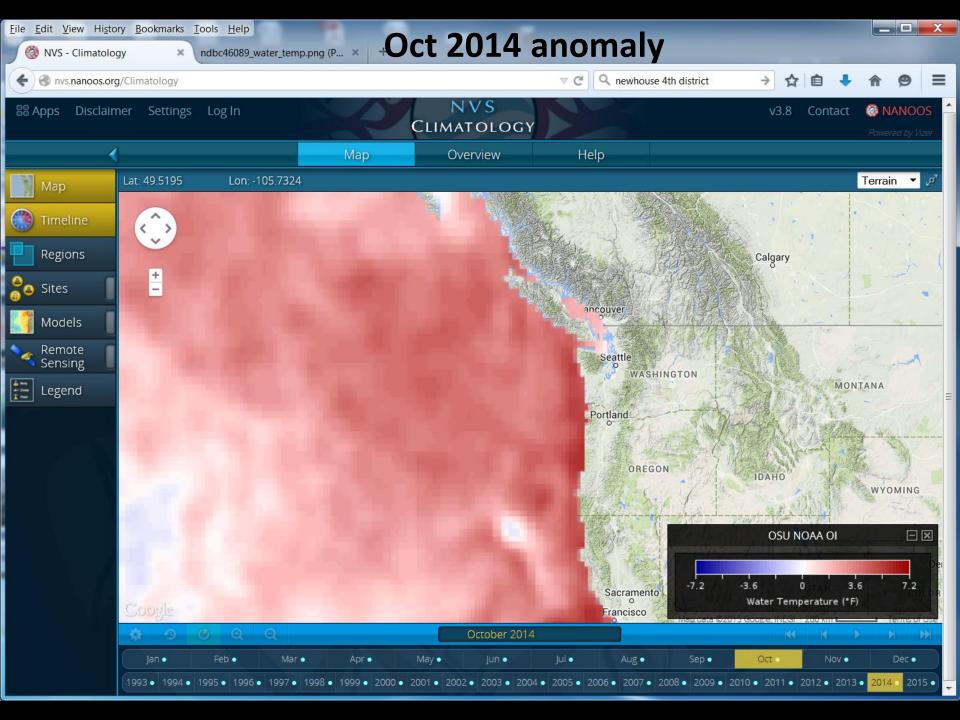




- Blob is hotter offshore
- Blob off PNW did not cool over winter
- Blob is still ~2 std deviations above mean

Gradient between offshore and onshore

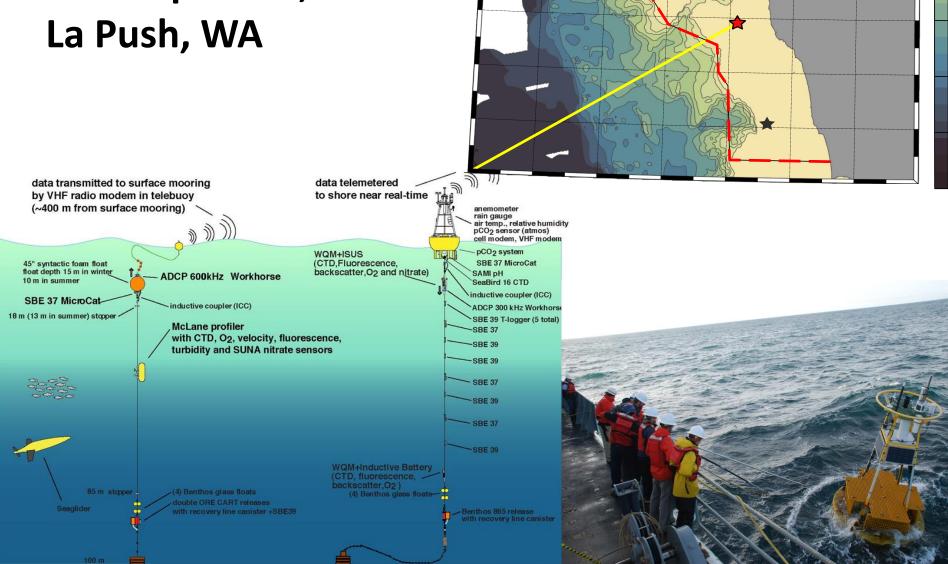


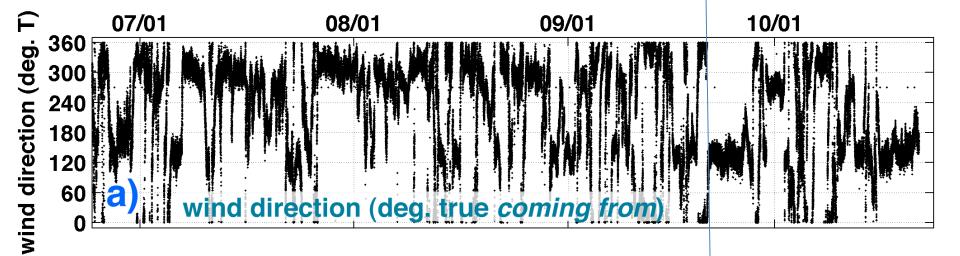


- Blob is hotter offshore
- Blob off PNW did not cool over winter
- Blob is still ~2 std deviations above mean
- Last summer, blob was held at bay off shore and upwelling was normal to cooler temps

• But so far, just looking at the surface...

Cha'ba Buoy and NEMO profiler, La Push, WA

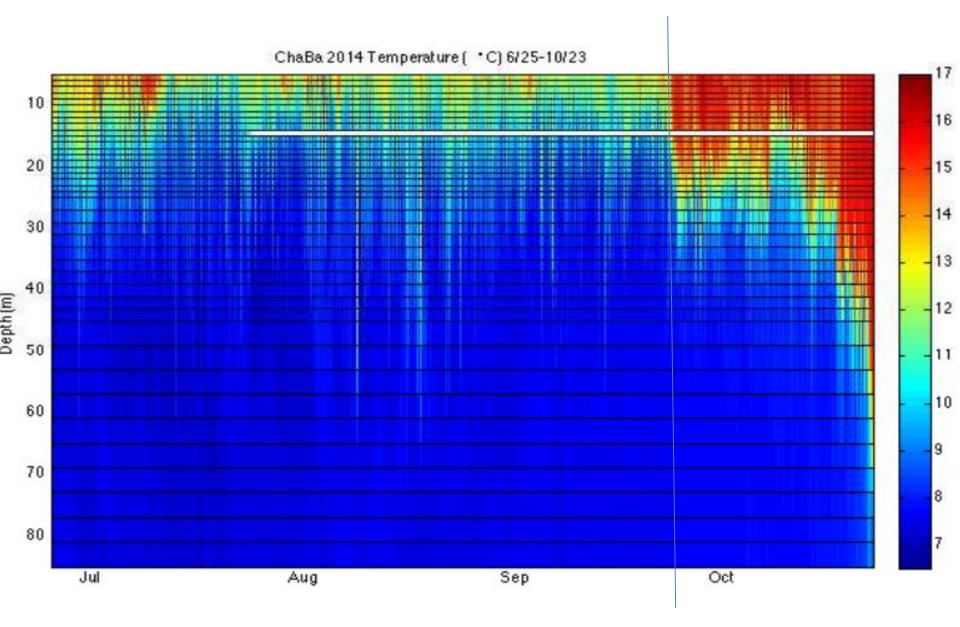




UPWELLING WINDS

DOWNWELLING WINDS

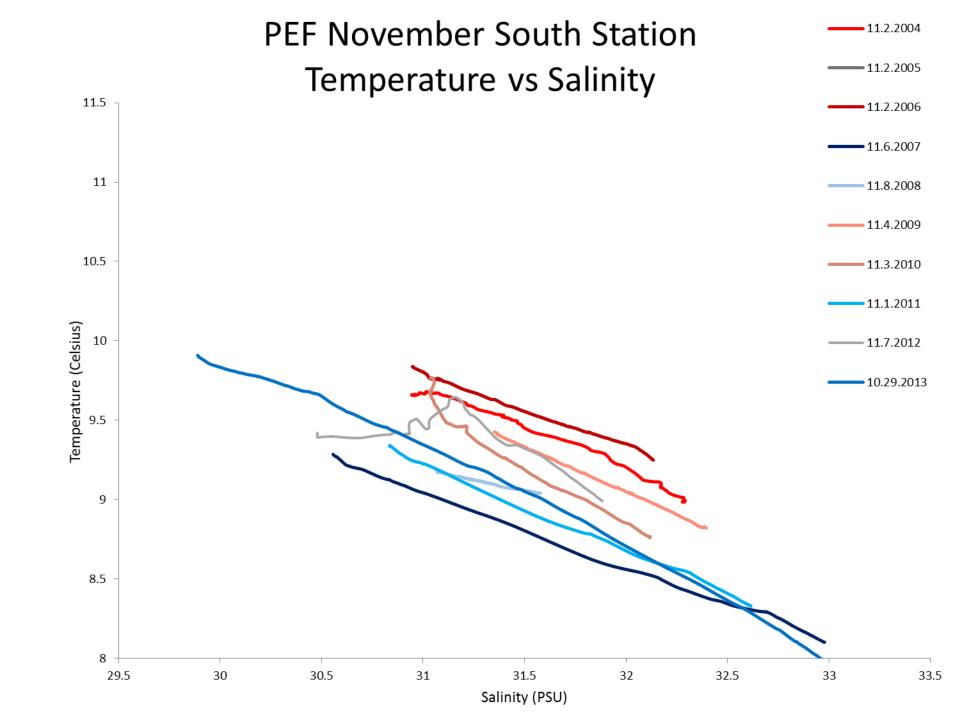
2014 SHIFT TO DOWNWELLING CLEARLY EVIDENT!!

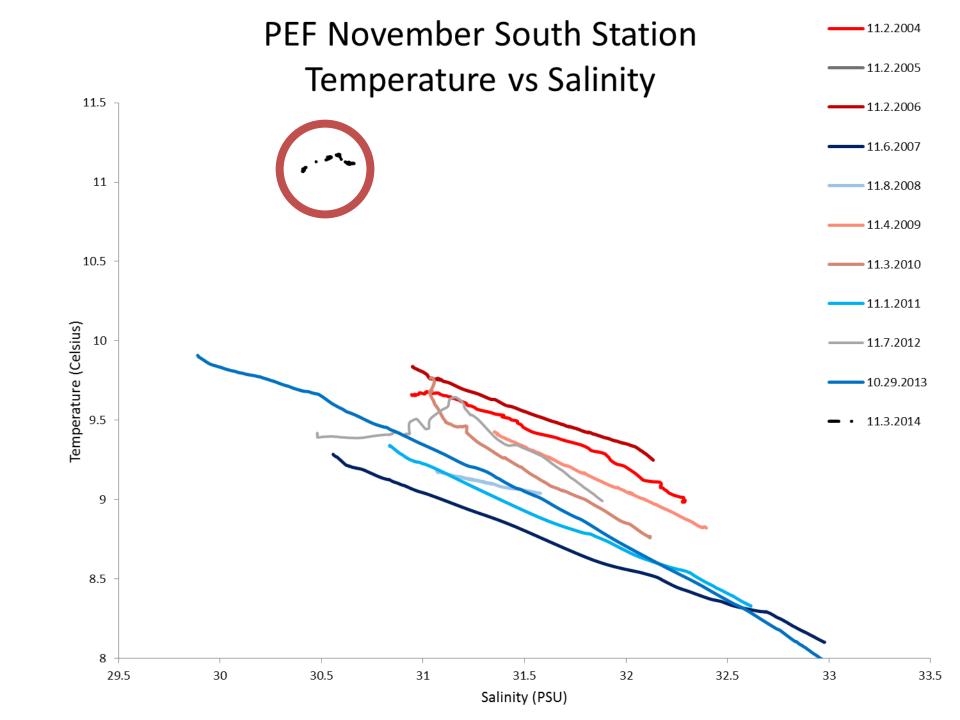


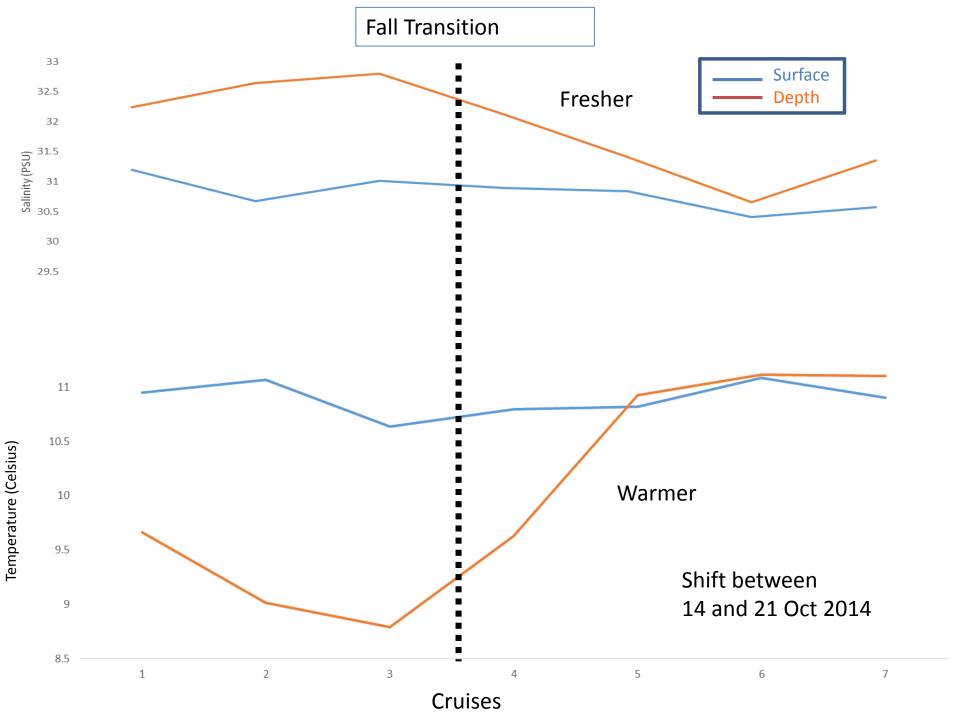
 Dramatic fall transition from upwelling to downwelling brings blob onshore, and warm waters penetrate to 60 m off WA coast

What about the inland waters?



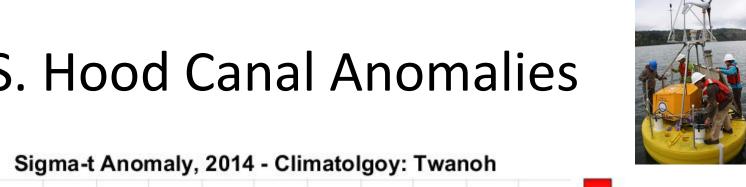


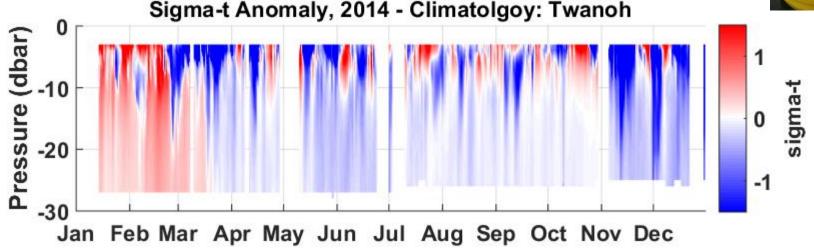


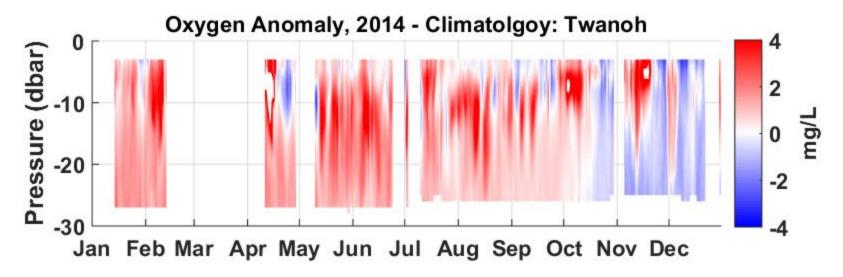




S. Hood Canal Anomalies







- What about the inland waters?
- Inland waters received influx of much warmer than normal waters
- Saw warm waters at depth, due to estuarine circulation
- Some areas did not flush

- Where are we going now?
- How big is the blob?

