# Joint Ocean Acidification and Hypoxia (OAH) Monitoring Task Force: Status of California's OAH Monitoring Assets Inventory

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# West Coast OAH Monitoring Task Force

#### Composition:

- West Coast states and British Columbia (PCC)
- Interagency Working Group on OA (IWG-OA)
- West Coast IOOS Regional associations

Vision: Improved OAH monitoring capacity along the West Coast through jointly building an integrated monitoring network aimed to address management needs

Step 1 Inventory current monitoring assets

Step 2 Assessment of gaps in monitoring network

Step 3 Prioritize and fill gaps to improve network

# West Coast OAH Monitoring Task Force

- Builds on recommendations from the West Coast OAH Science Panel
  - 2013-2016
- Accomplishes PCC initiative to design and implement coordinated, effective monitoring and research
  - June 2016
- Stems from discussions and correspondence between the PCC, NOAA and the IWG-OA
  - 2014-2016

#### **Inventory Process**

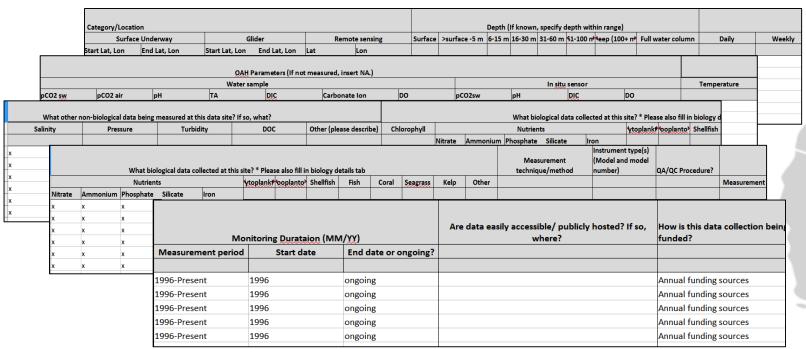
- 1) Template developed by state/federal Monitoring Task Force
- 2) Inventory template distributed to monitoring practitioners
- 3) Inventory leads consolidated and reviewed responses
- 4) Quality control follow up (e.g. unclear or missing information)
- 5) Identified consistent definitions of fields and classifications
- 6) Inventory uploaded to ArcGIS online and Web App created
- 7) Round of review using the Web App to catch errors
- 8) Integration from each jurisdiction (AK, BC, WA, OR, CA)

#### **Inclusion Criteria**

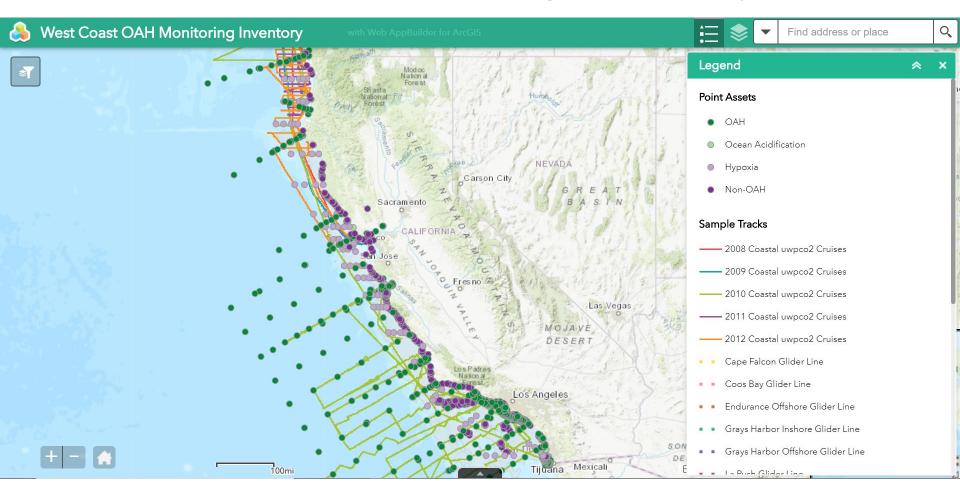
- Measure at least one metric of ocean acidification (pH, pCO2, DIC, TA) or hypoxia (DO)
- Repeatedly measure assets to document changes at a site over time. Single measurements at an asset were not included in the inventory
- Measure OAH conditions in the field. Experimental manipulations were not included in the inventory

#### Types of data collected

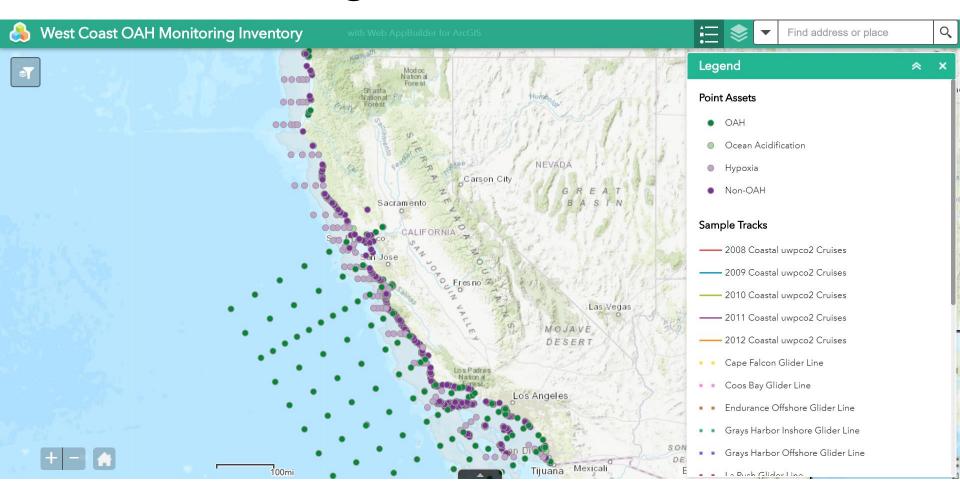
- Basic project info
- Location and depth
- OAH parameters and methods/instruments, WQ and nutrients
- Temporal characteristics of sampling
- Coupled biological sampling
- Funding, longevity of project



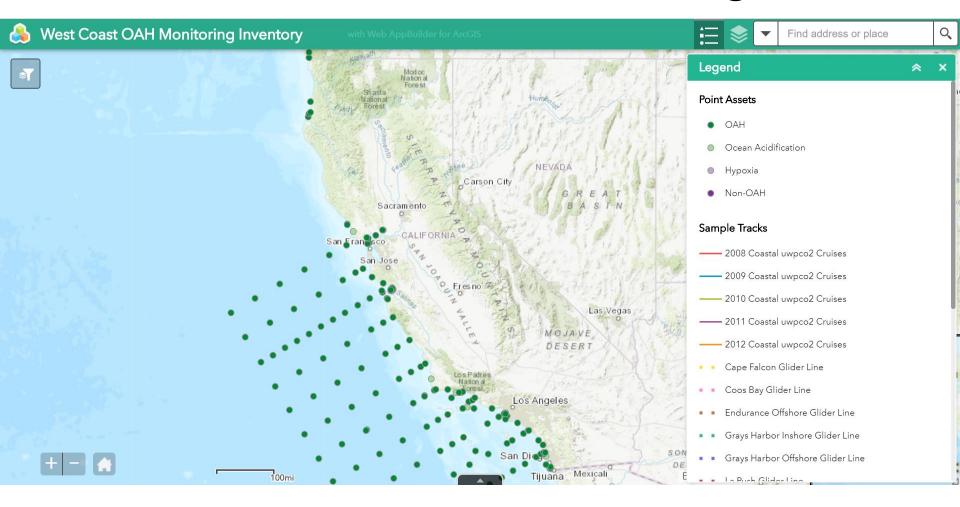
#### West Coast OAH Monitoring Inventory



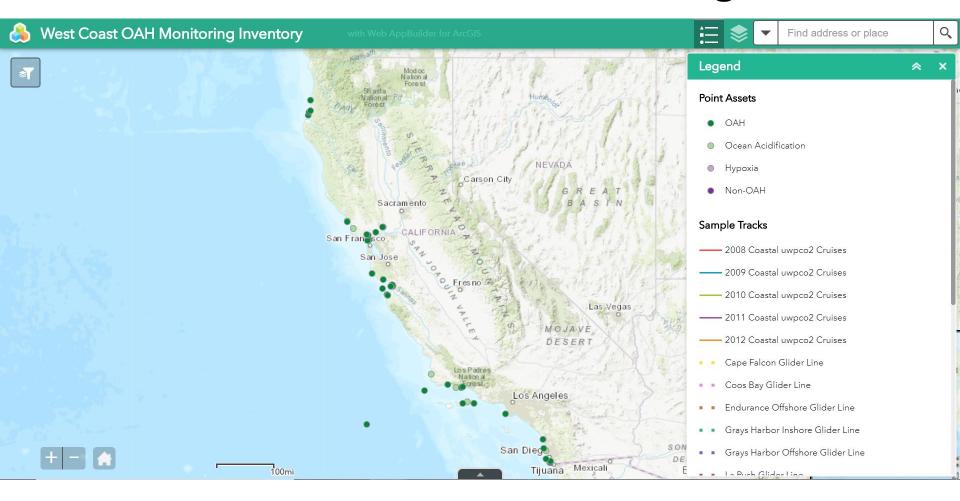
#### Active Monitoring Assets



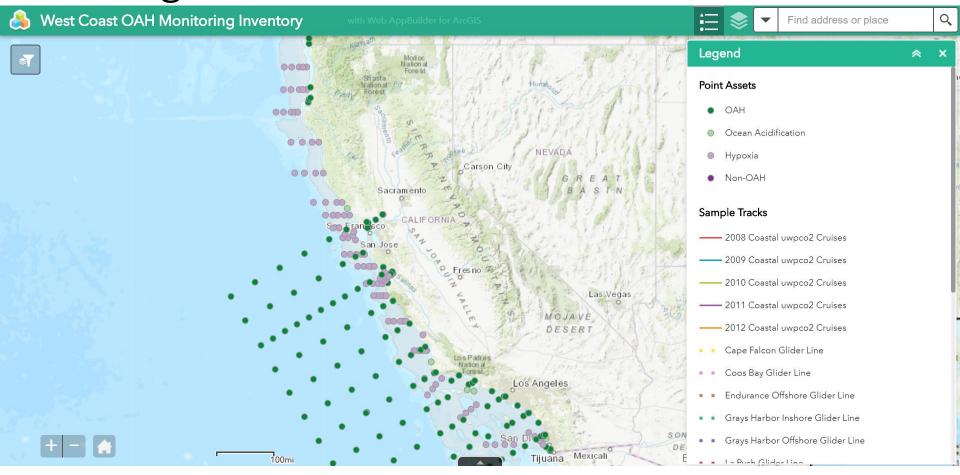
#### Active Ocean Acidification Monitoring Assets



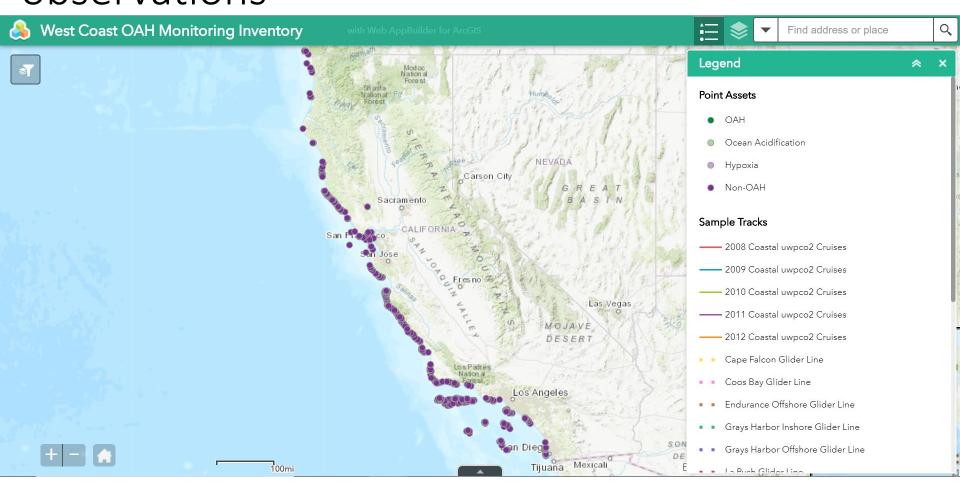
#### Active and Continuous OA Monitoring Assets



### Active assets monitoring both physical/chemical & biological observations



### Active assets monitoring ONLY biological observations



#### **Next Steps**

- Incorporating additional monitoring information from Alaska and British Columbia
- Work with partners to host this information online
- Lead federal/state discussion to define gaps and opportunities (Winter 2019)