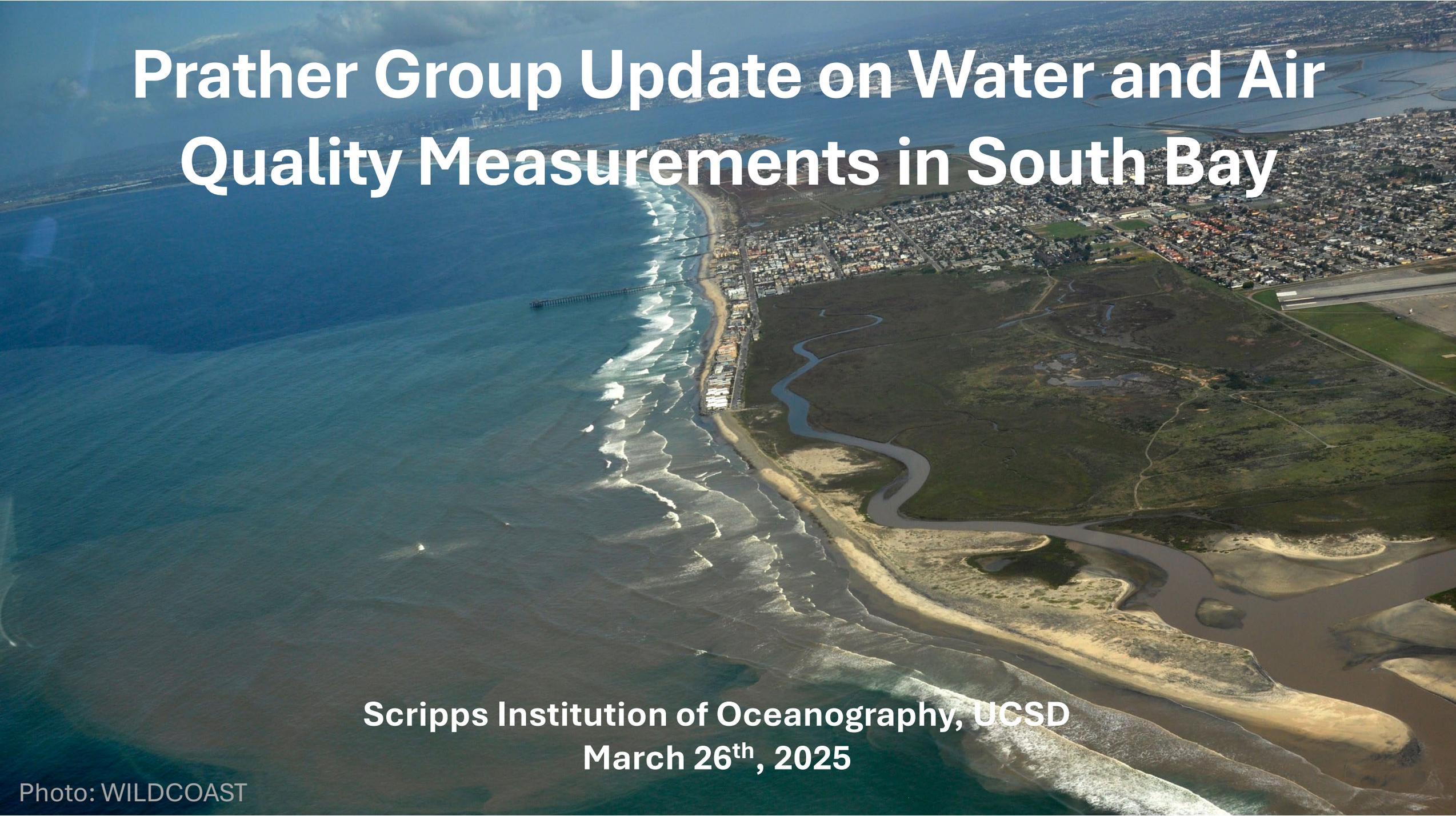


Prather Group Update on Water and Air Quality Measurements in South Bay

An aerial photograph of the South Bay coastline. The ocean is on the left, with white waves breaking onto a sandy beach. A long pier extends into the water. To the right of the beach is a residential neighborhood with many houses. Further inland is a large, flat, greenish-brown area, likely a wetland or marsh, with a winding waterway. In the background, a large airport runway is visible.

Scripps Institution of Oceanography, UCSD
March 26th, 2025

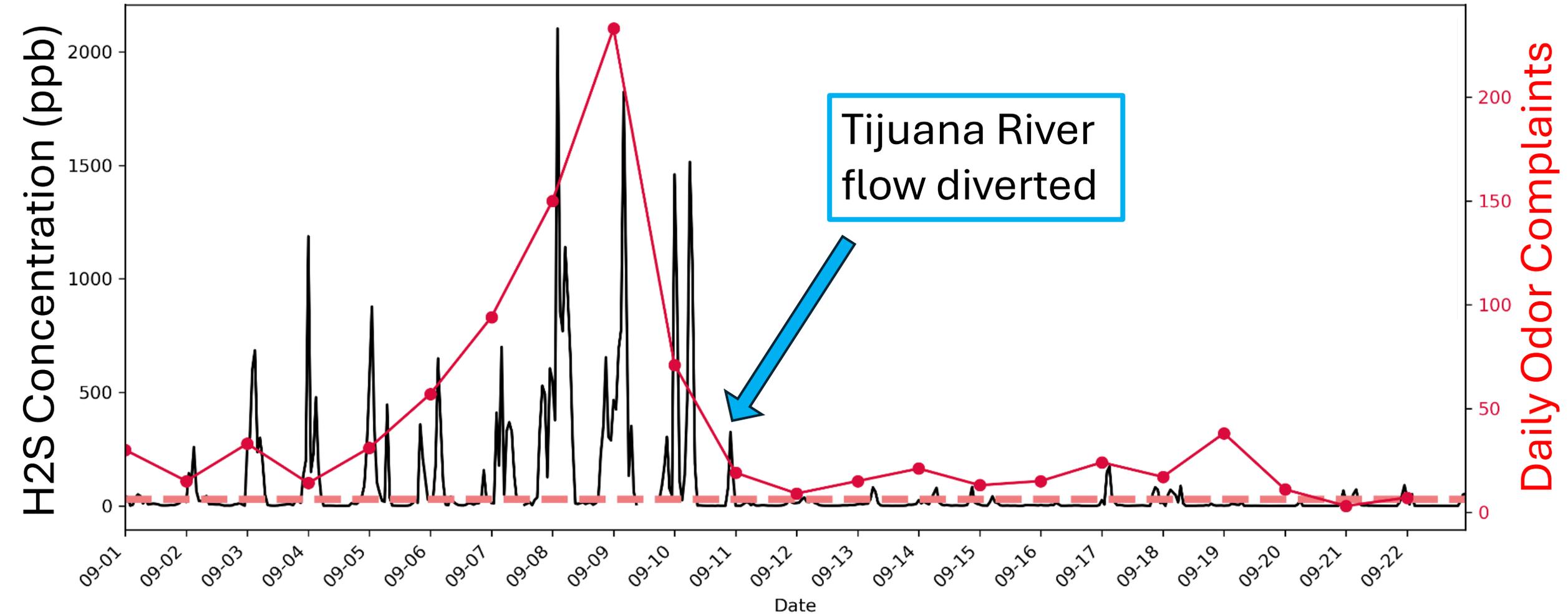
How does Water Pollution affect Air Quality?

Intense Summer and Winter Campaigns: Coastal and Inland Sampling of Water and Air

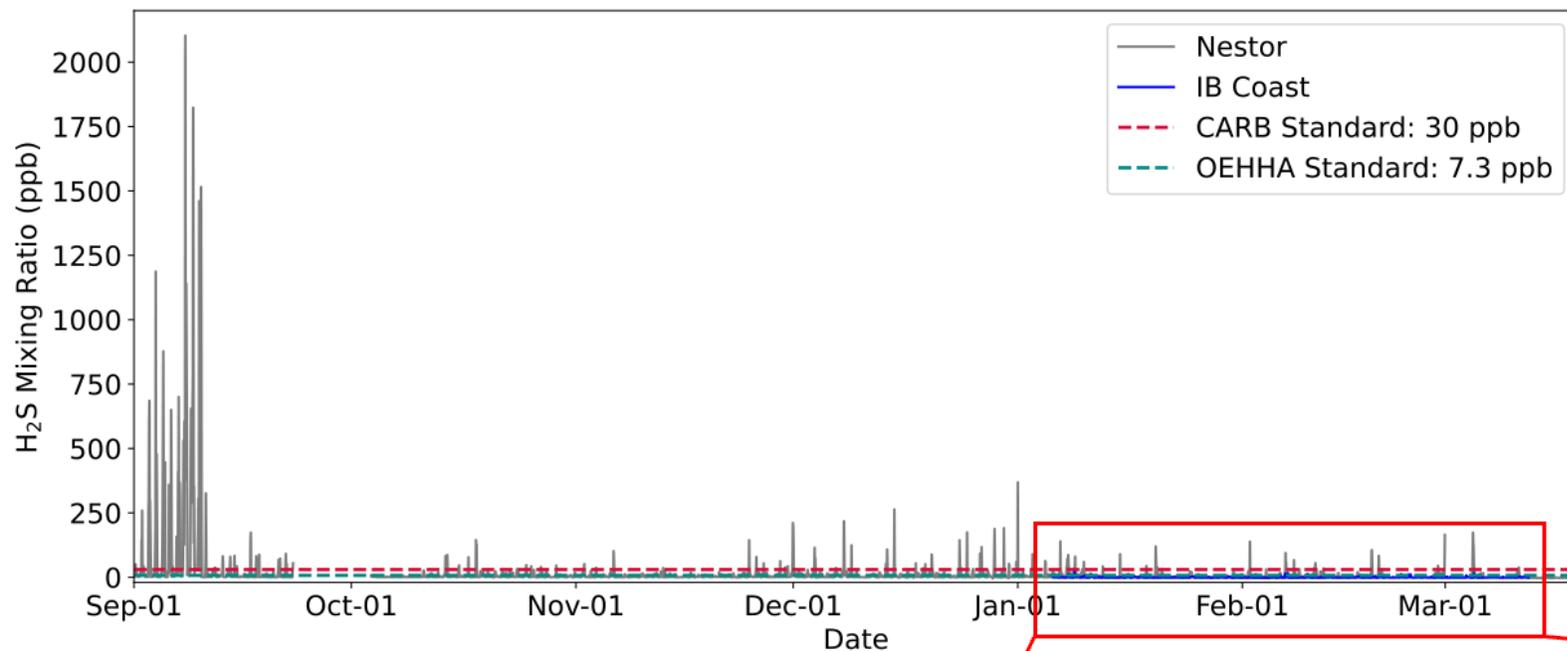
- **Air pollution** (H₂S, particulates, other pollutants)
- **Chemical pollutants** in air and water (EX: drugs, industrial waste, natural chemicals)
- **VOC gasses**
- **Biological pollutants** in air and water
- **Heavy metals**



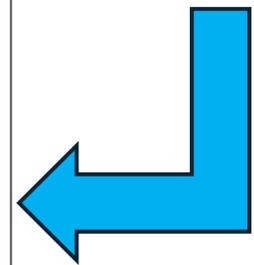
Odor Complaints Correlate with H2S Gas Levels



CARB H₂S hourly acute standard = 30 ppb

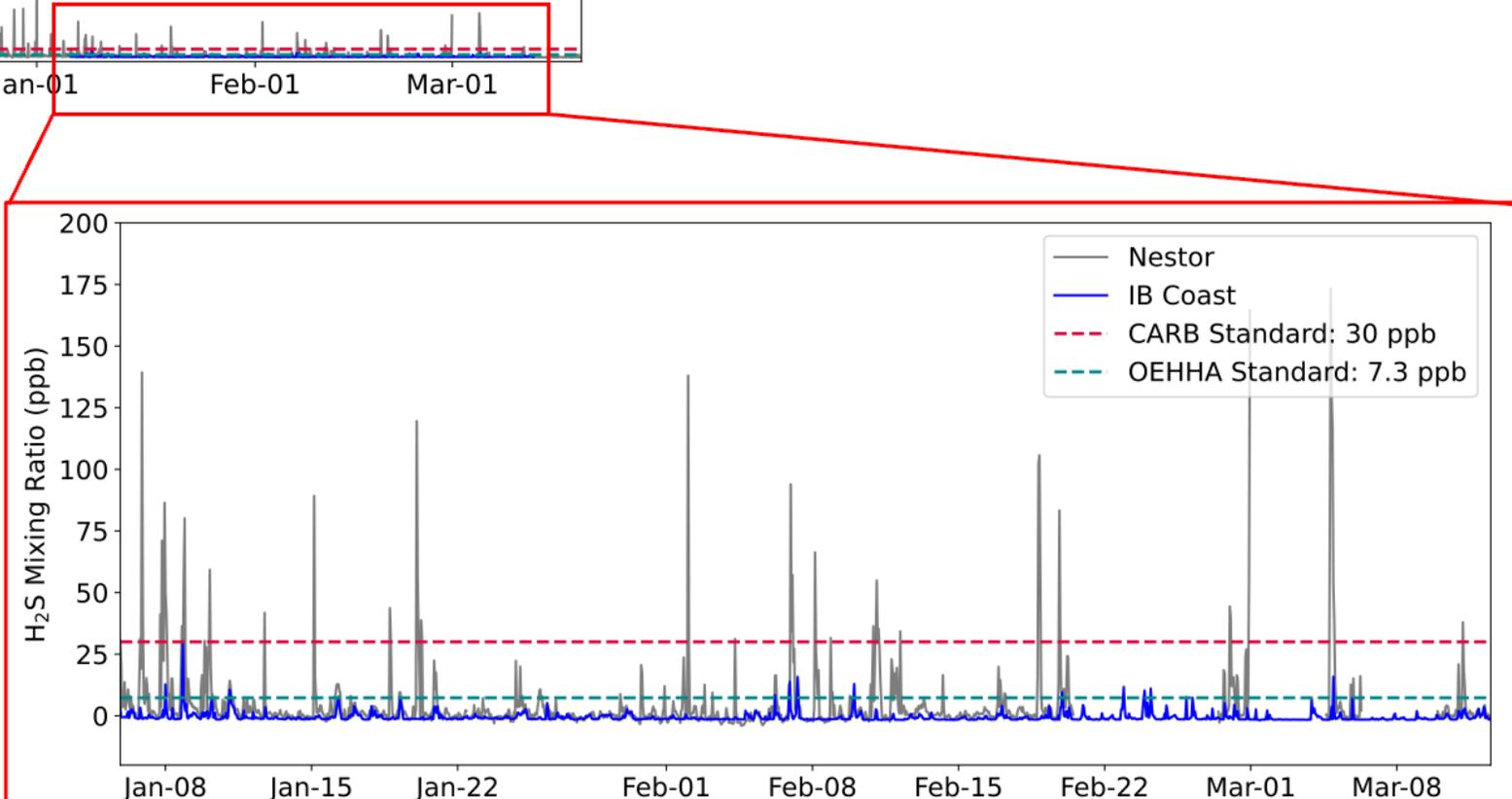
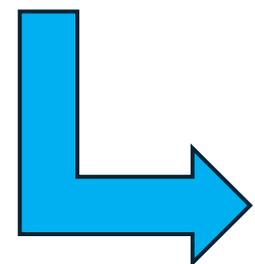


H2S measurements from Summer to Now



Inland Hot Spot (Gray) versus Coast (Blue)

River H2S is much higher than Coastal.



Ongoing Efforts

- **Data processing and analysis**
- **Air pollution monitoring (H₂S gas, particulates, other pollutants)**



- **Youth Climate Advisors**

- Port of San Diego Anchors of Excellence Award

- **Community survey and in-depth interviews to assess quality of life**

YCA Award



Questions?
airborne.ucsd.edu
bklimeck@ucsd.edu
mheyer@ucsd.edu

ODOR REPORT TOOL

