

# High-Frequency Marine Monitoring in Puget Sound

## OVERVIEW

Seattle Aquarium

✓ System Installed October 8 – 10

✓ Data now available on website

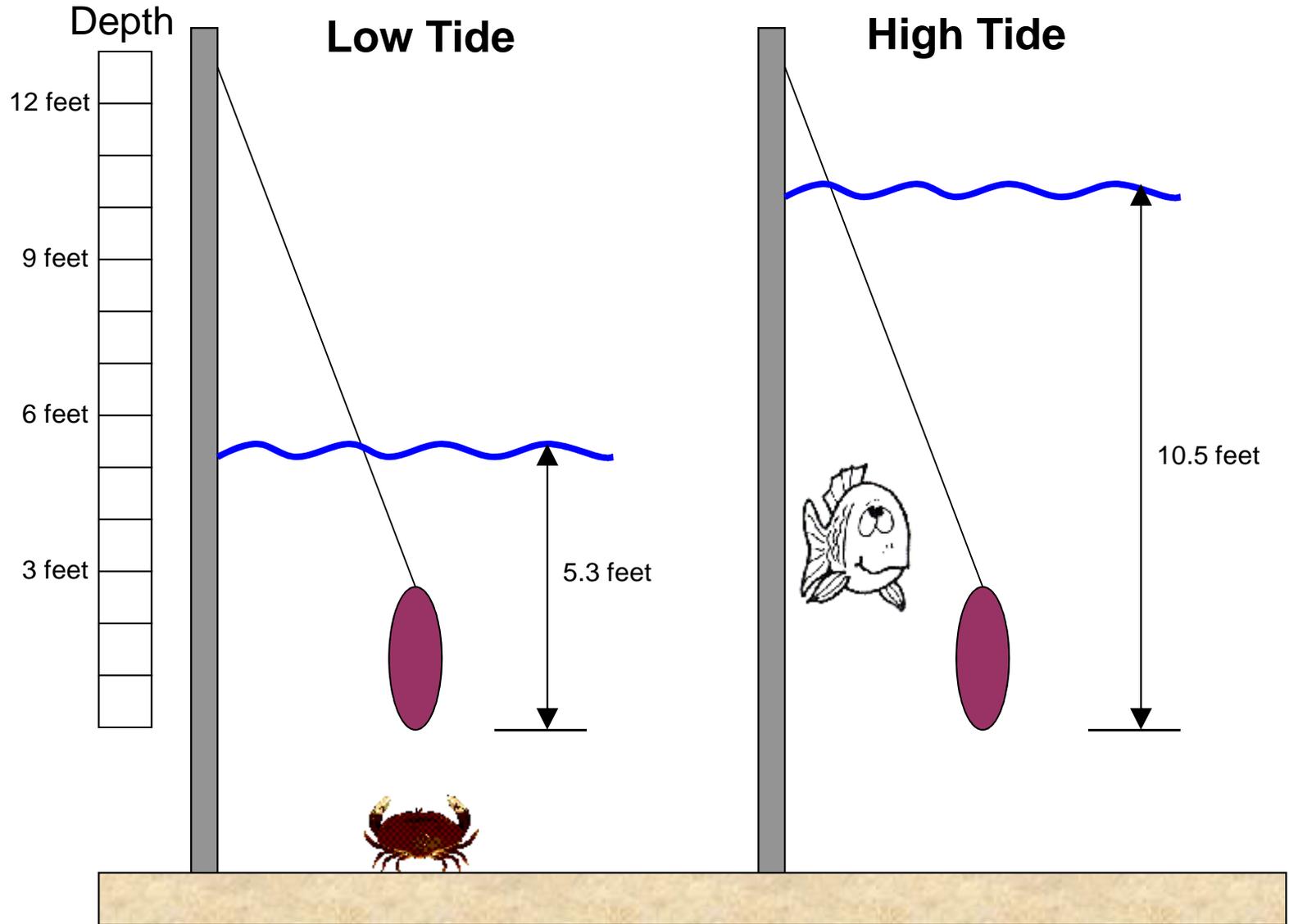
Quartermaster Yacht Club

✓ Scheduling Installation for December

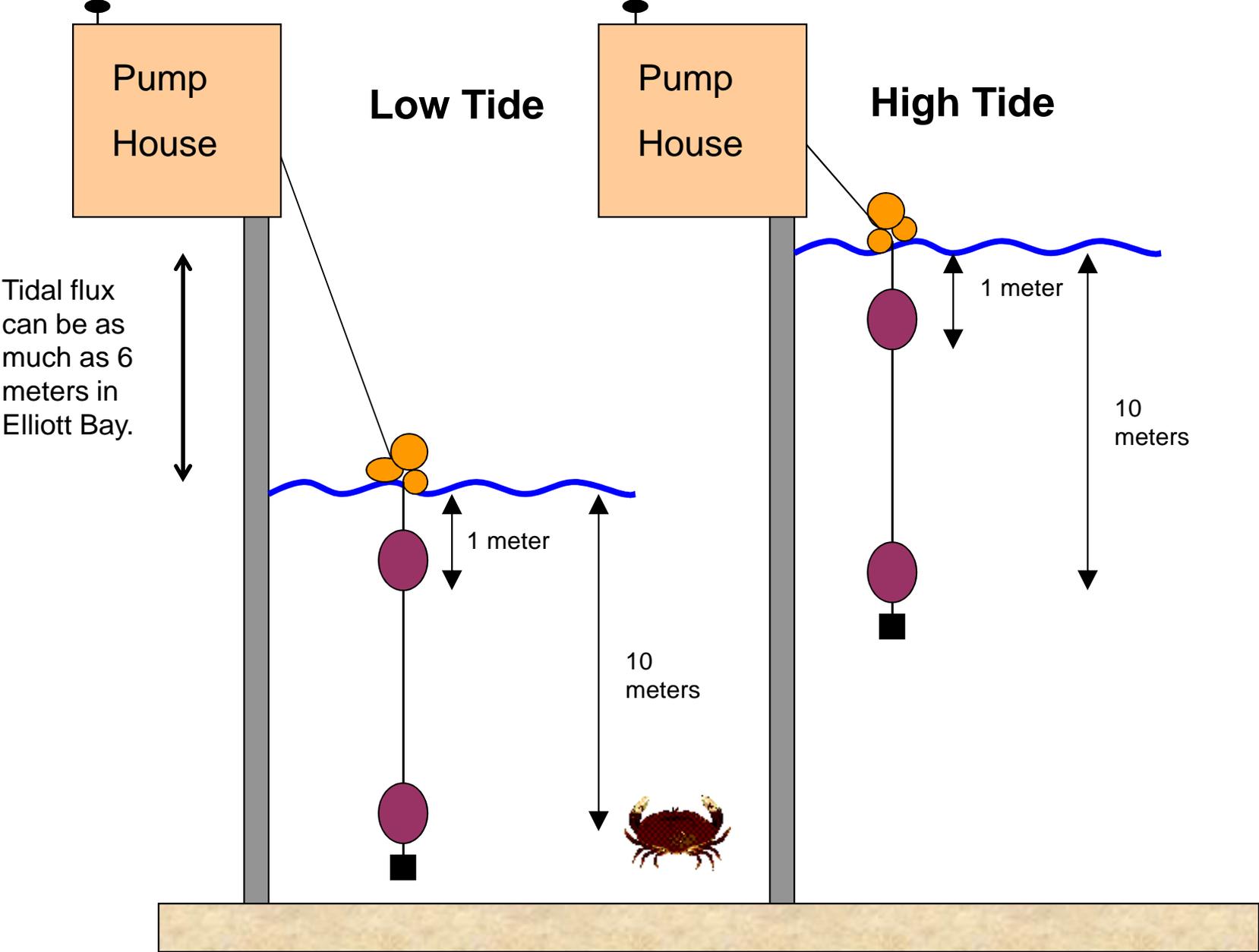
Two Additional Locations to be Determined/Installation mid to late 2008



# Pilot Project Set-Up



# Current Set-Up: 2 Sondes at Fixed Depths + Met Station





YSI Integrated Systems &  
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# What does this mean for the lab?

- Monthly sonde calibration and swap-out (ESS)
- Field temperature and turbidity at time of swap-out (ESS)
- Monthly QC samples for dissolved oxygen and salinity (Conventionals)
  - 2 per month from aquarium
  - 1 per month from Quartermaster Yacht Club

# Now, what's this about carbon measurements in Puget Sound?

- King County, UW, and NOAA have been discussing a possible collaboration
- Determining the KC carbon ( $\text{CO}_2$ ) budget through a mass balance approach
- Project is proceeding in an ad-hoc manner until funding can be secured (grants?)
- Could involve the use of the Liberty for underway  $\text{pCO}_2$  surveys next summer
- Currently exploring the implementation of spectrophotometric pH and total alkalinity measurements at KSBP01 with Brian P.
  - Ocean acidification
  - Determine inorganic carbon system