

Supporting long-term monitoring in the Pacific Arctic for over a decade – NOAA's Arctic Research Program

Leading from Within: NOAA's Arctic Research Program

➤ NOAA's Arctic work is broadly distributed across the agency. Within the **Global Ocean Monitoring and Observing Program**, ARP is making an impact at the highest levels of NOAA and facilitating dialogue across agencies.

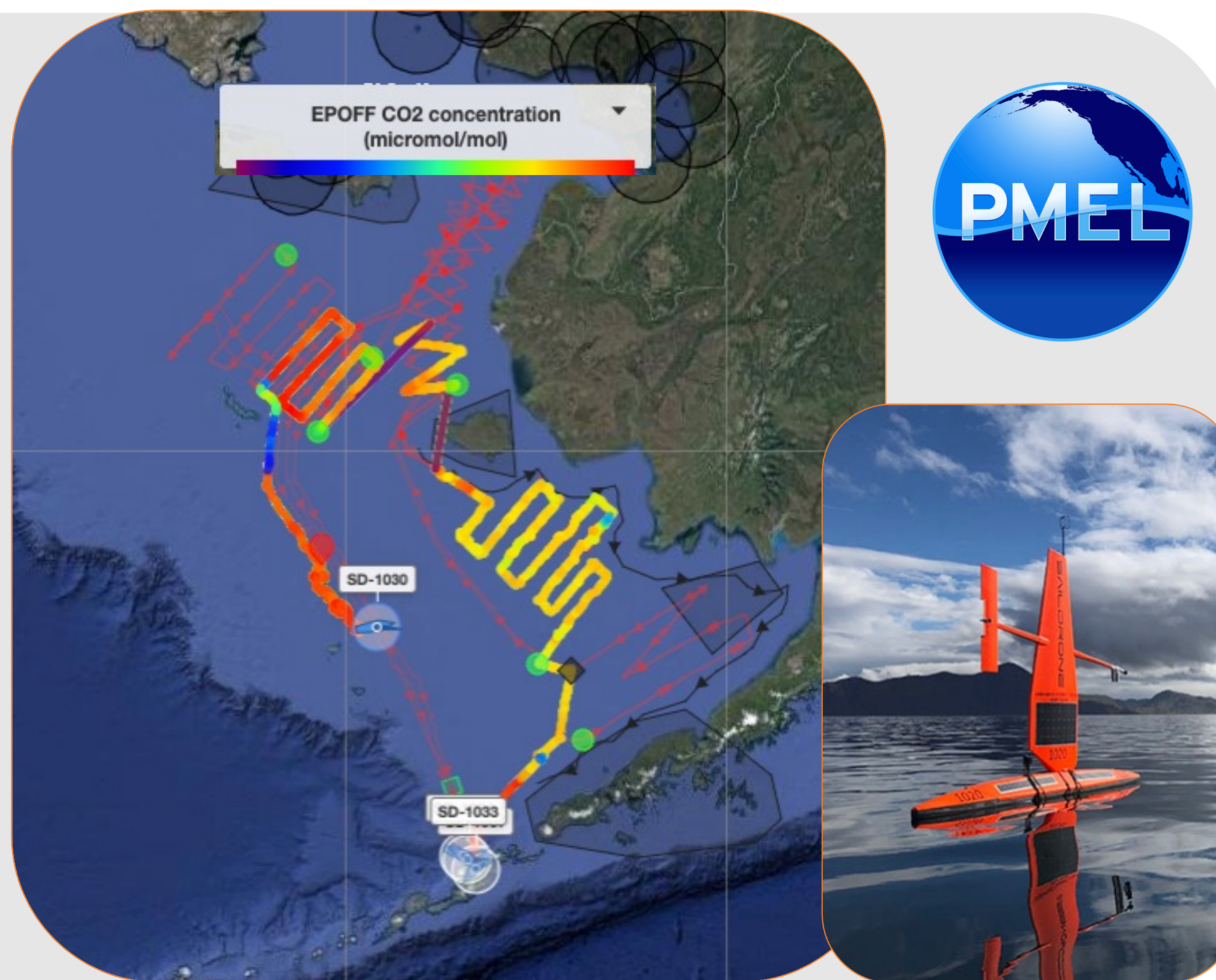
What we do – Science. Service. Stewardship.

- Long-term measurements of ocean, sea ice, atmosphere & boundary conditions to support modeling and forecasting
- Long-term Ecosystem monitoring in the Bering & Chukchi
- Supporting the US Arctic Observing Network
- Production of NOAA's Arctic Report Card + BAMS State of the Climate, Arctic Chapter
- Arctic coordination across NOAA *and so much more!*



How we do it – Partnerships

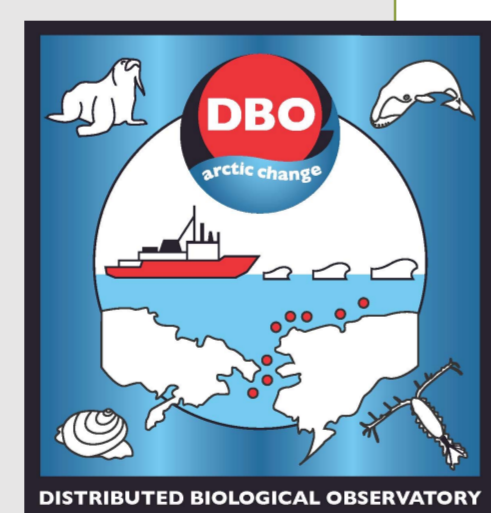
- Leveraging interagency and international investments in large programs – *DBO, EcoFOCI, + IABP*
- Working across NOAA Offices and Labs to meet mission needs –
2021 NOS Saildrone seafloor mapping mission in Bering Sea + PMEL pCO₂ sensor development for autonomous ocean acidification monitoring (right)



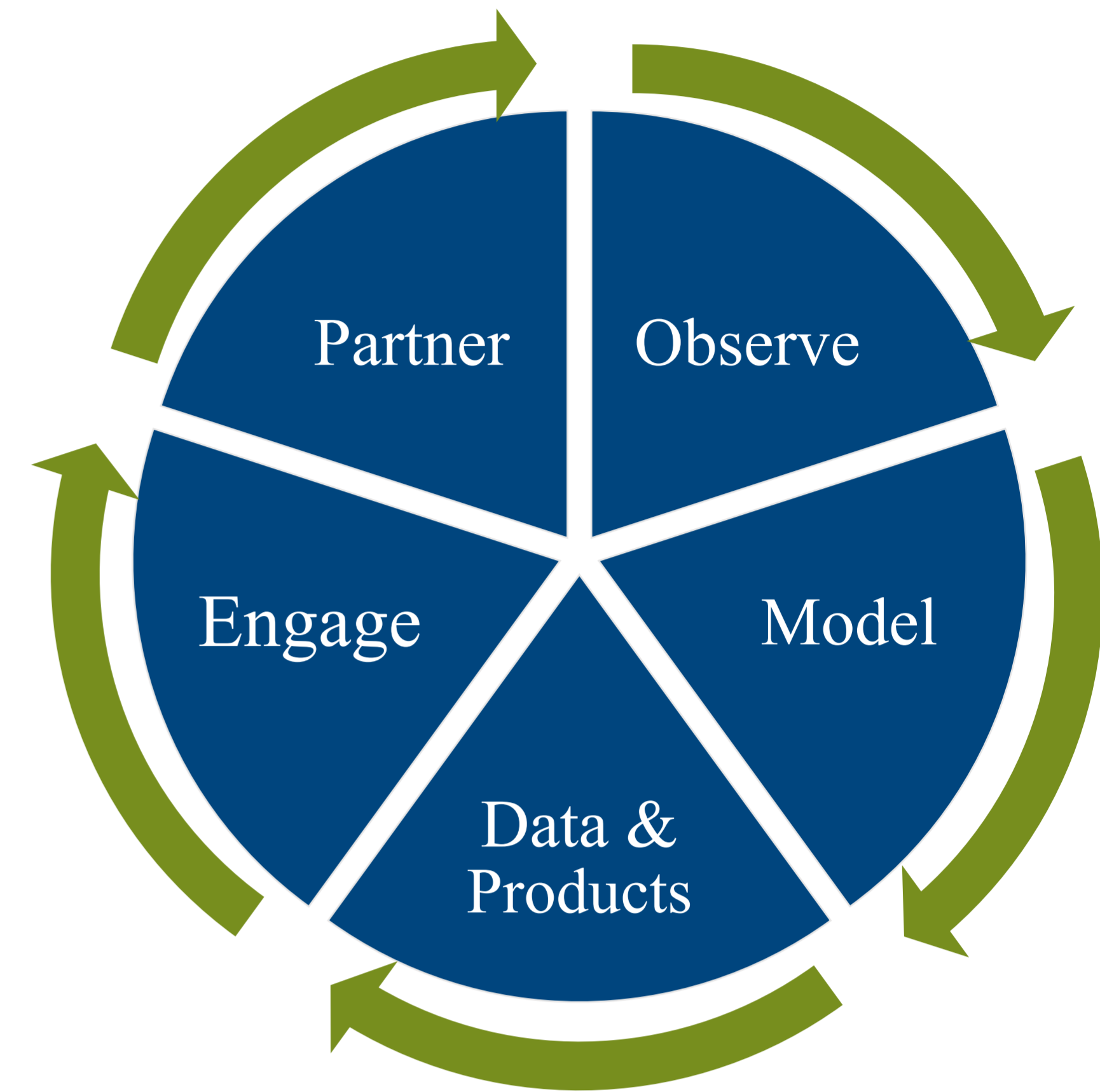
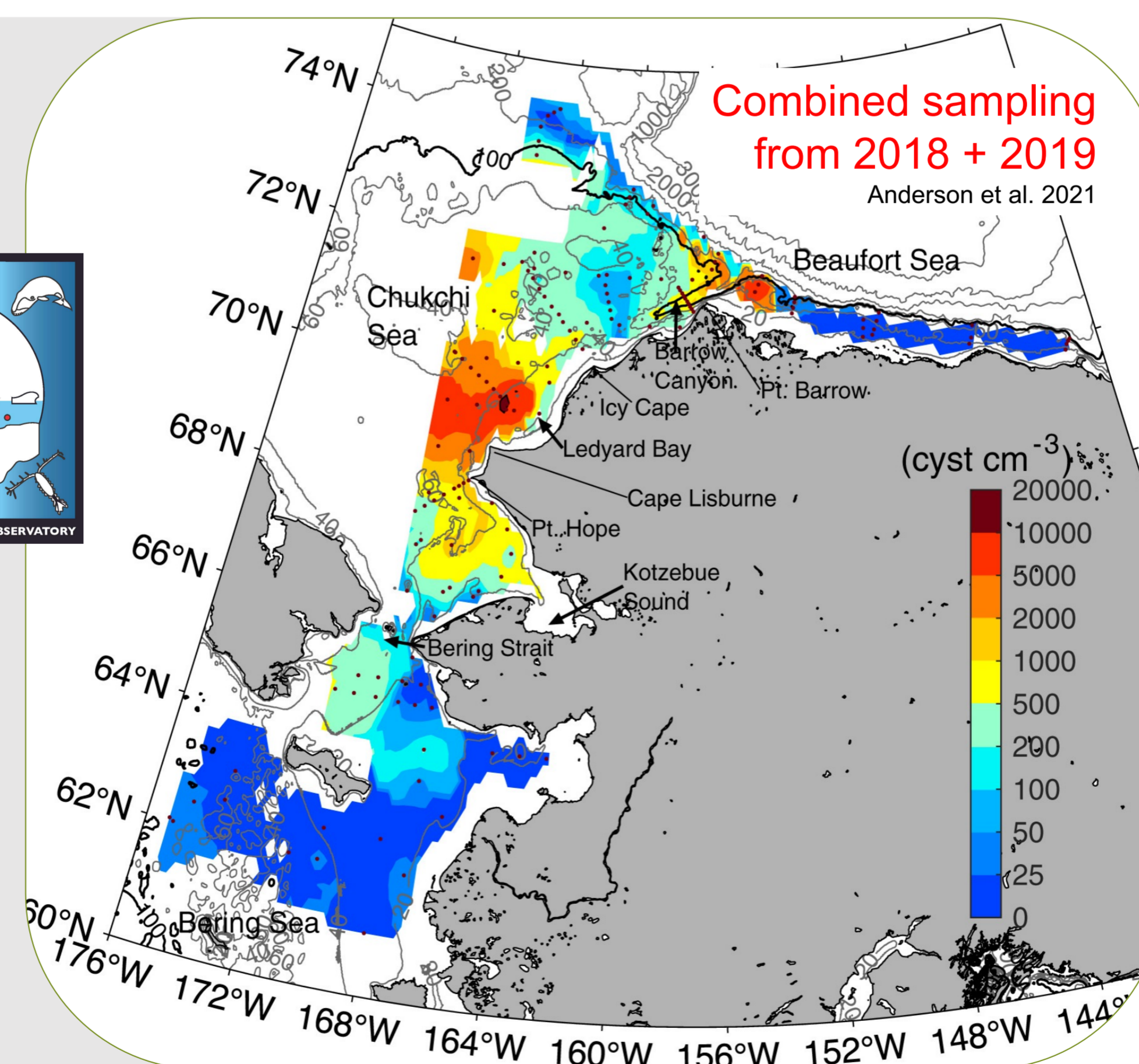
Interagency Leadership



- Worked with IARPC for rapid response to the 2018 emerging Harmful Algal Bloom concern
- Led coordination of sampling in surface waters, sediments of the Bering + Chukchi
- Work with the DBO led to the discovery of a large HAB seed-bed off Ledyard Bay, AK
- New concerns about how a changing Arctic could increase bloom prevalence



ARP continues to support HAB sampling in the Alaskan Arctic with NSF, NOS, and WHOI



Building a stronger program

ARP's 5-year outlook:

- Sustaining long-term **Observations** and developing new observational technologies
- Investing in critical **Modeling** needs, especially concerning sea ice
- Increasing the availability of the program's **Data** and supporting relevant and accessible **Products**, such as NOAA's Arctic Report Card
- Expanding meaningful **Engagement** with Indigenous and coastal communities in Alaska
- Improving **Partnerships** across NOAA, between agencies, and internationally

Next Steps

- ARP Data mapping exercise and synthesis – *underway!*
- Establishing NOAA collaboration teams bringing together modelers + observers
- Creating community accessible Arctic Report Card products + briefings for policymakers

Kelley A. Uhlig, Cynthia Garcia-Eidell, David Allen
Arctic Research Program, NOAA Global Ocean Monitoring & Observing

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Questions? Comments? kelley.uhlig@noaa.gov