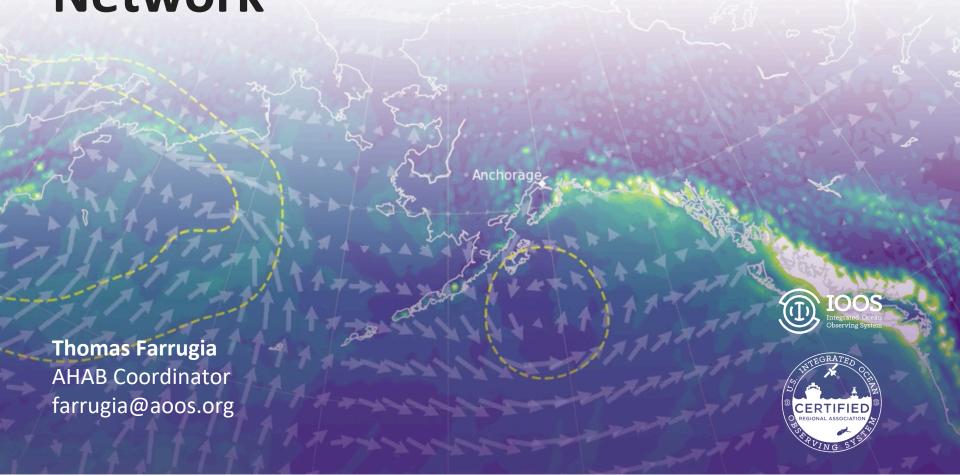


### The Eye on Alaska's Coasts and Oceans

Alaska Harmful Algal Bloom Network

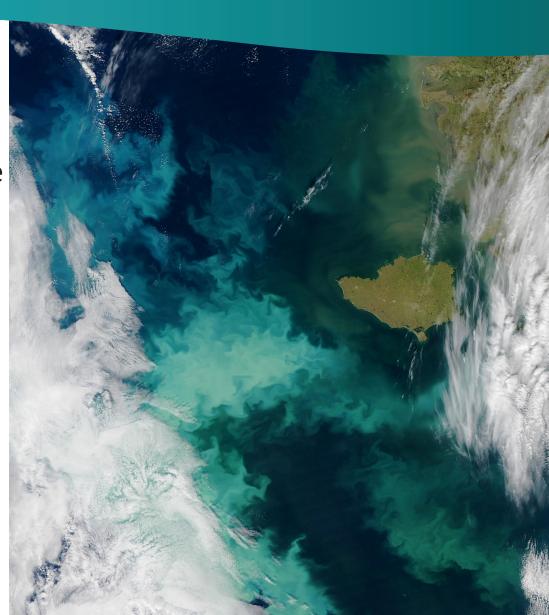


# **Harmful Algal Blooms (HABs)**

When algae produce toxins or accumulate to densities sufficient to have harmful effects on the environment or health

Commonly referred to as "red tide"

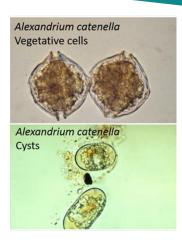
300+ species of harmful algae (marine and freshwater)



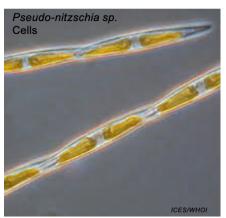
## HABs in Alaska



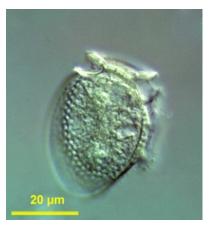
Cyanobacteria
Blue-green algae
Marine and freshwater
Some produce toxins
Can also cause anoxia



Alexandrium catenella
Dinoflagelate algae
Produces 20+ saxotoxins
Leads to Paralytic
Shellfish Poisoning
No antidote

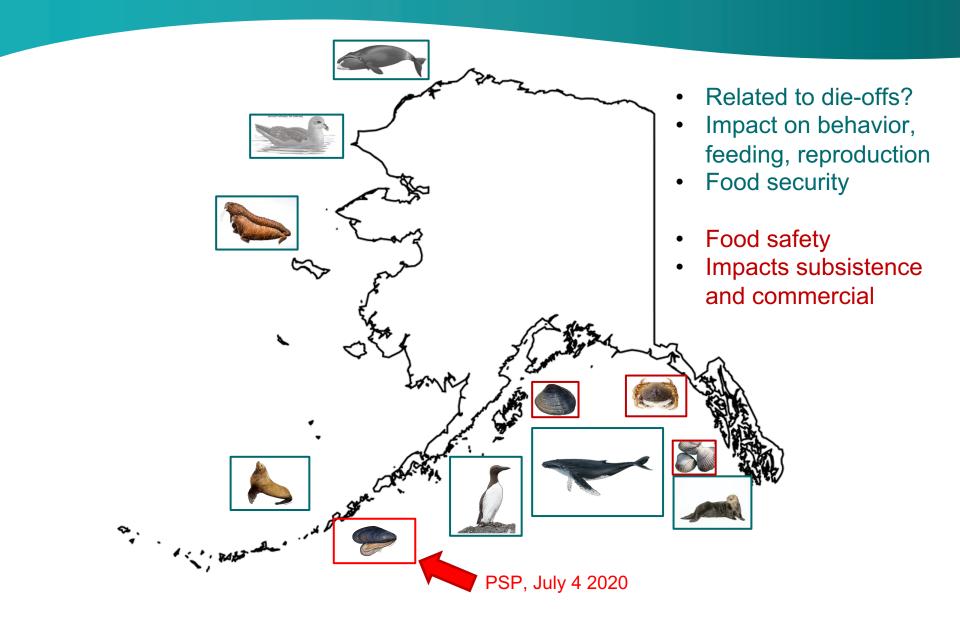


Pseudo-nitzschia sp.
Diatom (phytoplankton)
Produces domoic acid
Leads to Amnesic
Shellfish Poisoning
Wildlife impact

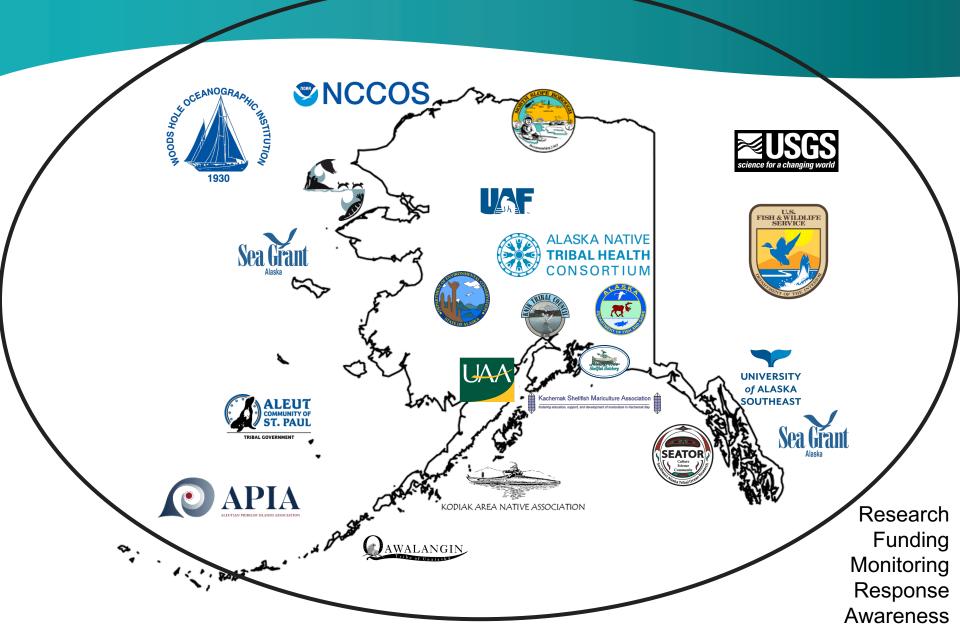


Dynophysis
Dinoflagelate algae
Produces okadaic acid
Leads to Diarrhetic
Shellfish Poisoning
Not in Alaska (yet!)

# **Impact of HABs**



# **Work on HABs**





## https://www.aoos.org/alaska-hab-network/

# Alaska Harmful Algal Bloom Network

Monthly update calls: 2<sup>nd</sup> Thursdays, 9:30-10:30am

About the Network

What are HABs?

How we monitor

Data Portal

**Resources & Links** 







### Alaska HAB Network



### Welcome to the Alaska HAB Network

As concern about Harmful Algal Blooms across the state grows, the Alaska HAB Network has come together to provide a centralized place for reliable information.

1 2

**Alaska HAB Network Features archive** 

### **Monthly Calls**

Join us every second Thursday of the month for HAB updates from around the state!

### **Current HABs Alerts**

- Shellfish advisory and marine biotoxin report in Southeast Alaska 11/19/20
- Massive die-off and health impact in Kamchatka (Russia) linked to HABs 11/18/20
- PSP death in Dutch Harbor; State of Alaska issues shellfish alert 7/15/20
- Bering Strait/Chukchi Sea: Alexandrium, Saxitoxin and Clams 2018-2019

#### **Data Portal**

