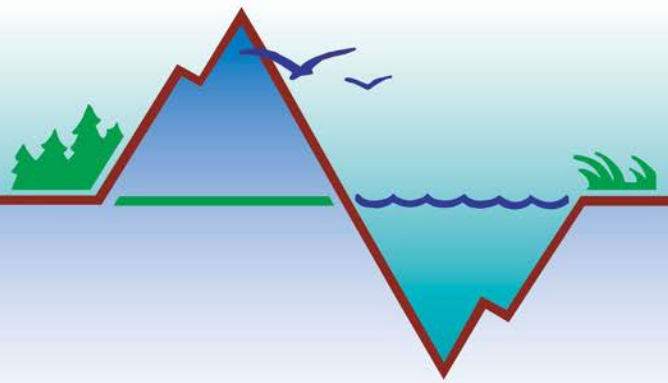


## Kachemak Bay Research Reserve Phytoplankton Update

November 8<sup>th</sup> – November 21<sup>st</sup> 2019

Harmful Algal Bloom Program

Rosie Masui 907-235-1598 [rmmasui@alaska.edu](mailto:rmmasui@alaska.edu)



Happy Thanksgiving Everyone,

Our samples from the Homer Harbor were sparse over the last two weeks. Most of the species observed are represented by a single individual on the slide. Sparse samples during this period of the year are common; see the phenology charts below, the blue represent weeks of sparse phytoplankton.

This is the last Phytoplankton Update of 2019. Weekly samples of the Homer Harbor will continue through the winter and we will report out on any relevant observations when our email updates begin again in April of 2020.

Please reach out at any time with questions.

We are grateful to all our monitors and partners for all your contributions this year! Your work allowed us to track HABs in Kachemak Bay and beyond.

Rosie Masui & Jasmine Maurer

### Kachemak Bay Research Reserve Phytoplankton Update

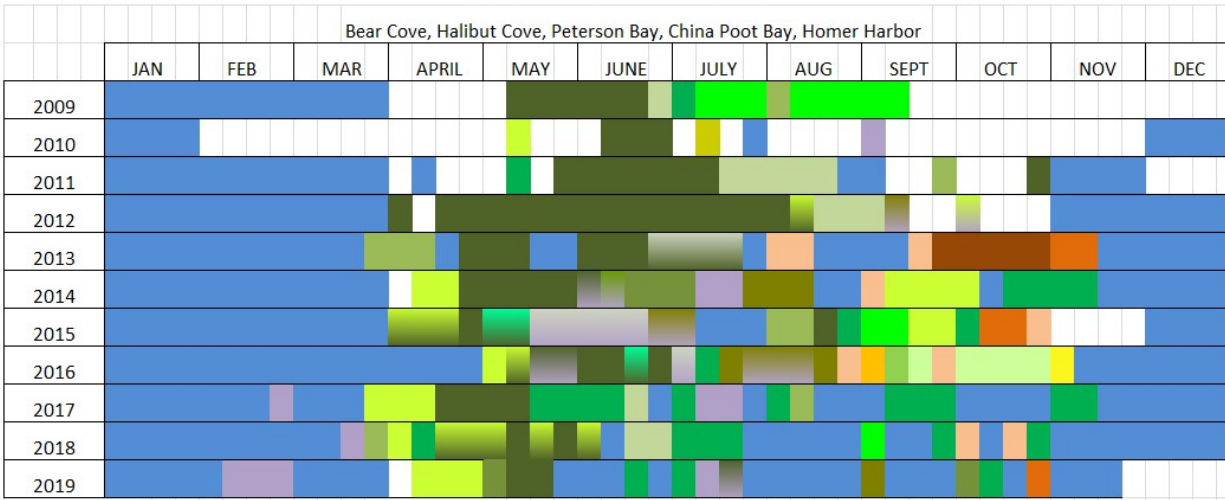
#### Qualitative Analysis Phytoplankton Data

#### **INNER BAY**

DATE	Bay	Water Temp	Salinity	Dominant species	Dinophysis	Pseudo-nitzschia	Alexandrium
11/14/2019	Homer Harbor	7	27	Sparse Sample	Present	None	None
11/21/2019	Homer Harbor	7.2	27.7	Sparse Sample	Present	None	None

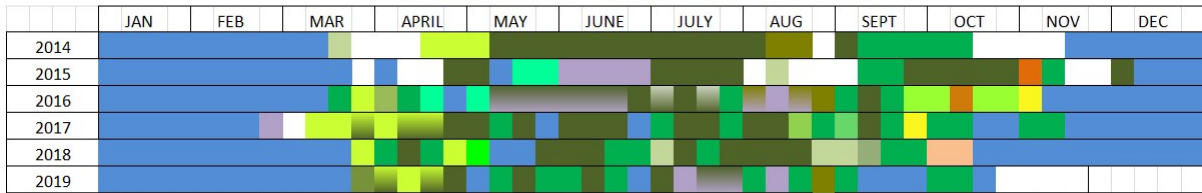
\*Samples received after last weekly update

Phytoplankton phenology  
Inner Kachemak Bay 2009 - 2019



Outer Kachemak Bay 2014 - 2019

Sadie, Tutka, Jakolof, Eldred Pass, Kasitsna, Seldovia, Pt. Graham



Dinoflagellates

- dinoflagellate mix
- Ceratium furca*
- Karenia mikimotoi*
- Alexandrium*
- Ceratium longipes*
- Diatom/Dinoflagellate Mix
- low levels of phytoplankton
- no data

Diatoms

- Chaetoceros*
- Cerataulina*
- Coscinodiscus*
- Lauderia*
- Leptocylindrus*
- Pseudo-nitzschia*
- Rhizosolenia*
- Skeletonema*
- Stephanopyxis*
- Thalassionema*
- Thalassiosira*
- Diverse diatoms
- Chaetoceros/Thalassiosira* equally dominant
- Chaetoceros/Lauderia* equally dominant
- Chaetoceros/Leptocylindrus* equally dominant
- Leptocylindrus/Pseudo-nitzschia/Rhizosolenia* equally dominant
- Chaetoceros/Pseudo-nitzschia* equally dominant
- Rhizosolenia/Pseudo-nitzschia* equally dominant
- Cerataulina/Pseudo-nitzschia* equally dominant
- Thalassiosira/Pseudo-nitzschia* equally dominant
- Leptocylindrus/Pseudo-nitzschia* equally dominant
- Ditylum*
- Corethron*



Kachemak Bay National Estuarine Research Reserve  
Alaska Center for Conservation Science  
UNIVERSITY of ALASKA ANCHORAGE