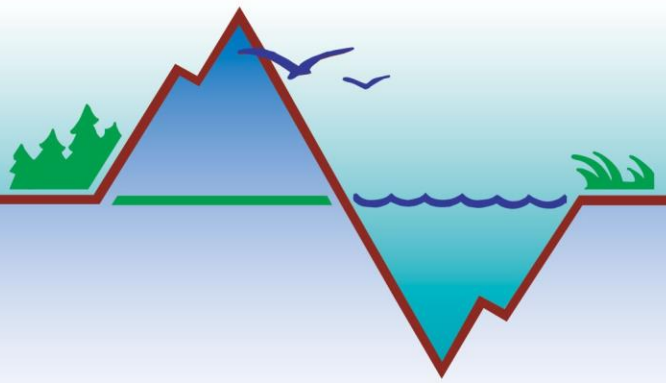


Kachemak Bay Research Reserve Phytoplankton Update

September 26th – October 10 2019

Harmful Algal Bloom Program

Rosie Masui 907-235-1598 rmmasui@alaska.edu



Hello Everyone,

We are still seeing some phytoplankton in our samples. None of our samples had any species with elevated numbers but we are still seeing a variety. We will be continuing to sample the Homer Harbor weekly throughout the winter but otherwise will only be taking phytoplankton samples opportunistically. We invite everyone to join us for a lunch lecture tomorrow at the Kachemak Bay Campus in Homer for a presentation on Harmful Algal Blooms in Kachemak Bay and South-Central Alaska.

We have received phytoplankton samples from our partners at Prince William Sound Aquaculture. If anyone is curious about the results from those samples, please reach out. We are happy to share.

Thanks to all our monitors and partners for the phytoplankton samples!

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
10/2/2019	Homer Harbor	10.5	28.7	<i>Cerataulina</i>	Present	Present	None
10/2/019	Bear Cove	8.8	28.8	<i>Chaetoceros</i>	Present	Present	None
10/8/2019	Peterson Bay	9.4	30.3	<i>Thalassionema</i>	Present	Present	None
10/8/2019	Halibut Cove	9.6	30.0	Mixed Diatoms	None	Present	None

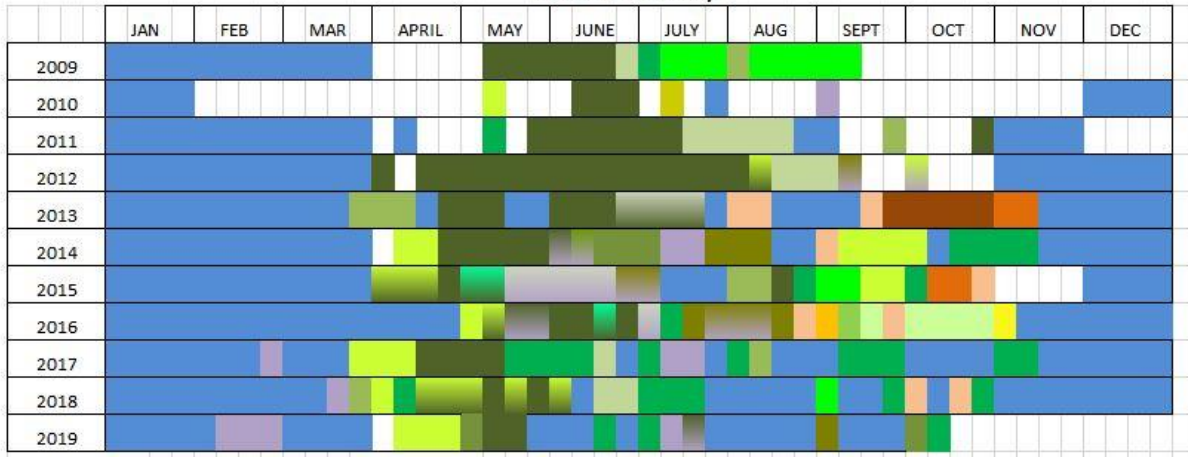
*Samples received after last weekly update

OUTER BAY

DATE	Bay	Water Temp	Salinity	Dominant species	Dinophysis	Pseudo-nitzschia	Alexandrium
10/8/2019	Jakolof Bay	9.1	30.7	Mixed Diatoms	None	None	Present
10/8/2019	Kasistna Bay	9.0	30.5	Mixed Diatoms	Present	Present	Present

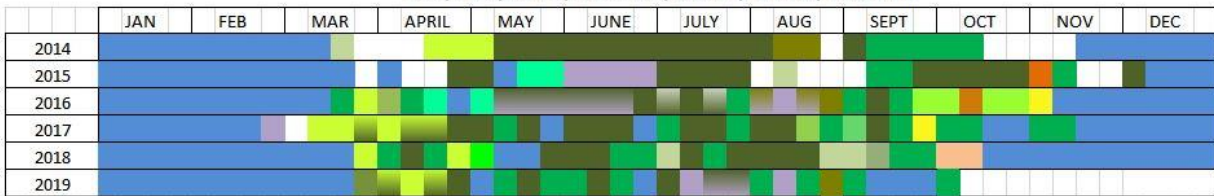
*Samples received after last weekly update

Phytoplankton phenology
Inner Kachemak Bay



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
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