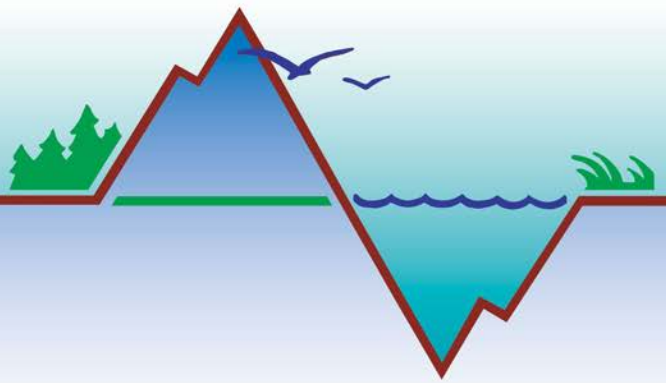


Kachemak Bay Research Reserve Phytoplankton Update

October 11th – October 24th 2019

Harmful Algal Bloom Program

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



Hello Everyone,

A variety of phytoplankton species are present in our samples this week at low levels. Homer Harbor will be sampled weekly throughout the winter and we will continue opportunistically taking phytoplankton samples at other locations.

Last week the KBNERR hosted a workshop with local partners to discuss human health factors around harmful algal blooms. We look forward to incorporating ideas from that workshop into our HAB program as well as continuing to work with local partners and health care professionals to provide products Kachemak Bay communities can use to minimize health risks from HABs.

Thank you to all the participants who attended the workshop.

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
10/18/2019	Homer Harbor	8	28	Sparse Sample	Present	Present	Present
10/24/2019	Homer Harbor	8.2	28.2	Sparse Sample	Present	Present	None

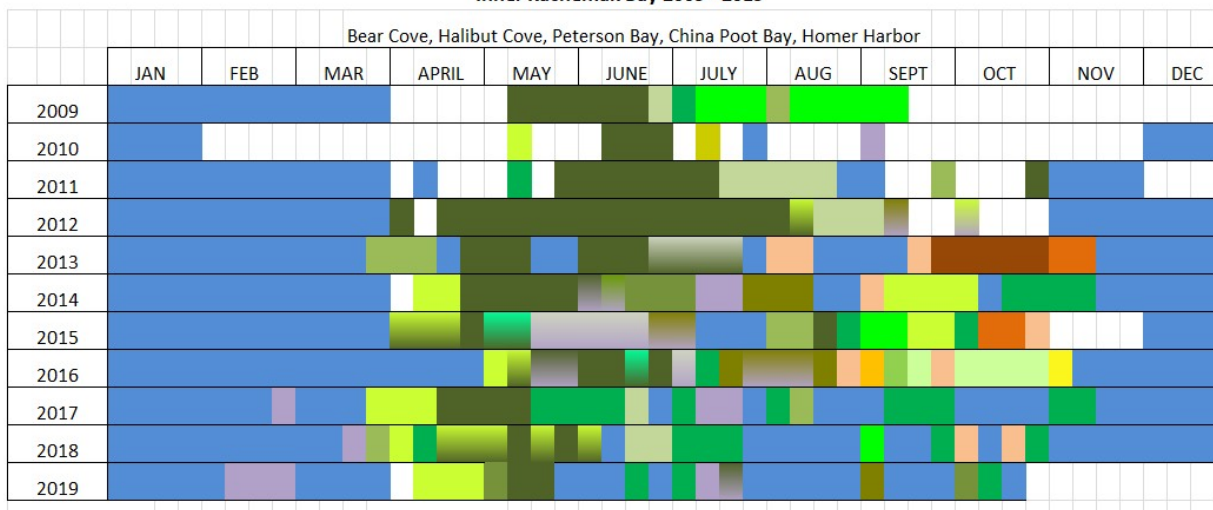
*Samples received after last weekly update

OUTER BAY

DATE	Bay	Water Temp	Salinity	Dominant species	Dinophysis	Pseudo-nitzschia	Alexandrium
10/12/2019	Tutka Bay	8.7	28.4	<i>Chaetoceros</i> spp.	Present	Present	None
10/17/2019	Seldovia Harbor	7.9	30	Mixed Diatoms	None	None	Present
10/21/2019	Seldovia Ferry Dock	8.0	28.4	Sparse Sample	None	Present	None

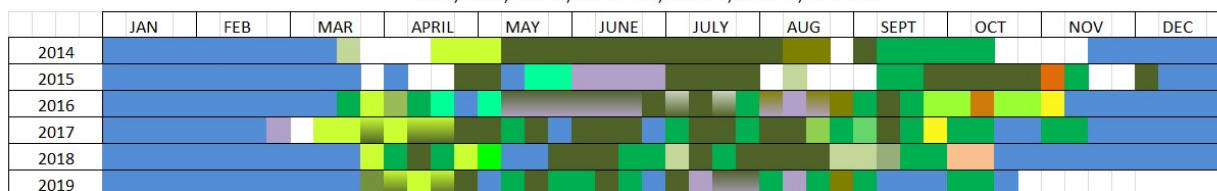
*Samples received after last weekly update

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*



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