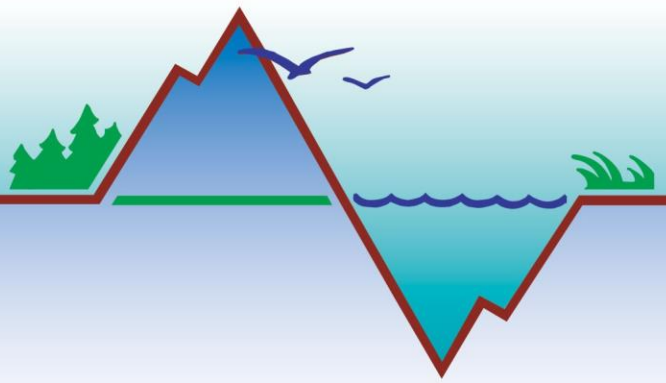


Kachemak Bay Research Reserve Phytoplankton Update

April 25th – May 2nd 2019

Harmful Algal Bloom Program

Rosie Robinson 907-235-1598 rmrobinson3@alaska.edu



Hi all!

We are seeing phytoplankton blooming throughout Kachemak Bay! After seeing low abundances of phytoplankton in our samples last summer this is exciting news. *Thalassiosira spp.* is blooming in the inner bay and *Chaetoceros spp.* is blooming in the outer bay. We have yet to see any *Alexandrium spp.* in our samples, as far as harmful algal bloom species go. We are sending off shellfish for toxin testing and will hopefully have results to start sharing in the next update!

We look forward to a great season; let us know if you have any questions!

Rosie Robinson, Grace Allan, & 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
4/23/2019	Peterson Bay	6	33	<i>Thalassiosira</i>	Present	None	None
4/26/2019	Homer Harbor	7.5	24.5	Sparse sample	None	None	None
5/1/2019	Halibut Cove	8	22	<i>Thalassiosira spp.</i>	None	None	None
5/2/2019	Peterson Bay	7.2	29.8	<i>Thalassiosira</i>	None	Present	None
5/2/2019	Halibut Cove	7.5	30.4	<i>Thalassiosira</i>	None	Present	None
5/2/2019	Bear Cove	7.9	29.3	<i>Chaetoceros & Thalassiosira</i>	None	Present	None

*Samples received after last weekly update

OUTER BAY

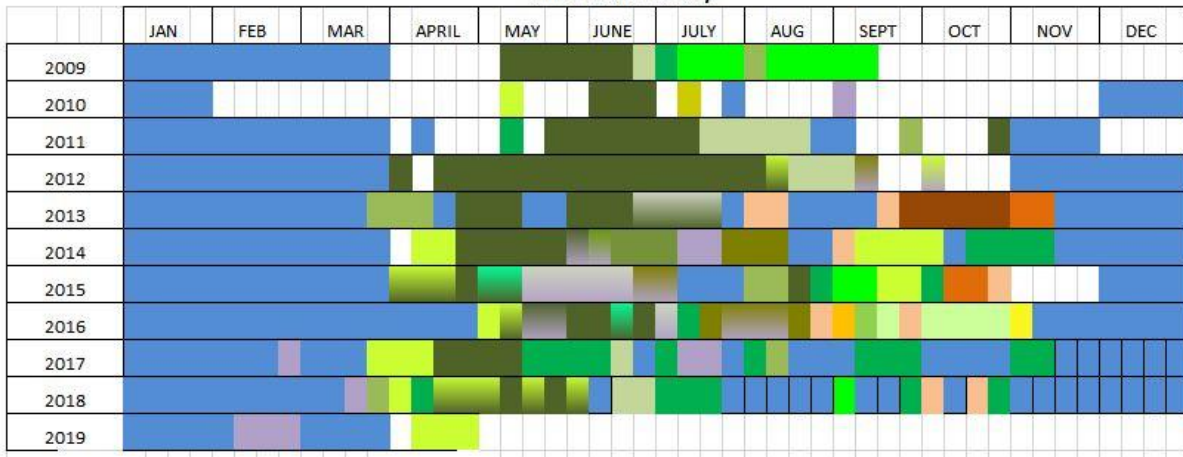
DATE	Bay	Water Temp	Salinity	Dominant species	Dinophysis	Pseudo-nitzschia	Alexandrium
4/29/2019	Bootleggers Cove	7	31	<i>Chaetoceros spp.</i>	None	Present	None
4/29/2019	Little Jakolof	7	31	<i>Chaetoceros spp.</i>	None	None	None
4/29/2019	Jakolof	6.5	31	<i>Chaetoceros and Thalassiosira</i>	Present	Present	None
5/2/2019	Jakolof	7.2	30.3	<i>Chaetoceros spp.</i>	None	Present	None
5/2/2019	Kasistna	7.4	29.7	<i>Chaetoceros spp.</i>	Present	Present	None

*Samples received after last weekly update

RESSURECTION BAY

DATE	Bay	Water Temp	Salinity	Dominant species	Dinophysis	Pseudo-nitzschia	Alexandrium
4/26/2019	SMIC Dock	5.9	30.2	Sparse sample	None	Present	None
4/27/2019	CIAA Net Pens	7.5	29	<i>Pseudo-nitzschia abundant</i>	None	Abundant	None

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
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