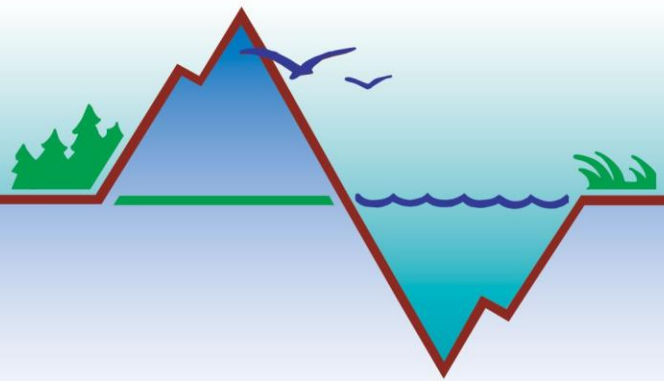


Kachemak Bay Research Reserve Phytoplankton Update

May 31st – June 6th 2019

Harmful Algal Bloom Program

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



Hi all,

Things are still pretty slow in the Inner Bay this week. Tintinnids were abundant in the sample from Halibut Cove. Tintinnids are microzooplankton that feed on phytoplankton and bacteria and are an important food source for copepods and larval fishes! The Outer Bay samples were dominated by mixed diatoms. We had our first sighting of *Alexandrium* sp. in the samples from Port Graham on May 31st. Seeing this species does not necessarily mean that shellfish are accumulating saxitoxins, which can lead to Paralytic Shellfish Poisoning, in their tissue. As always – please reach out if you have any questions.

Thanks to all our monitors for sending in samples and readings this week!

Rosie Robinson & 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
5/24/2019*	China Poot	9	34	<i>Chaetoceros spp.</i>	None	None	None
5/29/2019*	China Poot	8.5	33	Mixed Diatoms	None	Present	None
6/2/2019	Halibut Cove	10.2	28.1	Sparse Sample	None	Present	None
6/2/2019	Homer Harbor	9.5	28	Sparse sample	None	Present	None
6/3/2019	Peterson Bay	10	32	Sparse Sample	None	None	None
6/5/2019	Halibut Cove	10	30	Sparse Sample	None	None	None
6/6/2019	China Poot	12	34	Mixed Diatoms	None	Present	None
6/6/2019	Homer Harbor	11.0	29.8	Sparse Sample	None	Present	None

*Samples received after last weekly update

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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