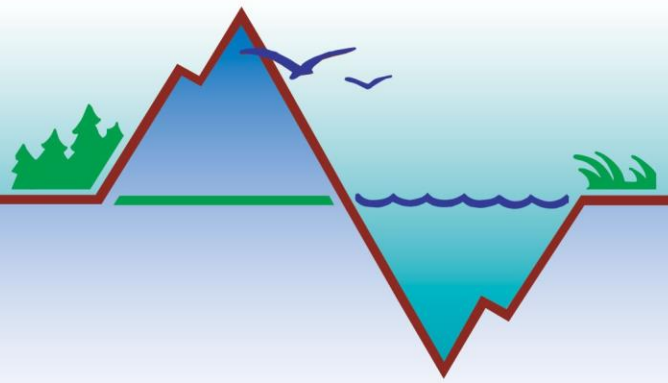


Kachemak Bay Research Reserve Phytoplankton Update

June 27th – July 3rd 2019

Harmful Algal Bloom Program

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



Happy 4th of July!

This week we joined our Fish and Game partners for their clam surveys in Kachemak Bay, allowing us to collect samples for our wild shellfish toxin testing program. We expect to have those results to share with you all in next week's weekly update.

The phytoplankton samples from the Inner Bay continue to be sparse. This is in contrast to what we observed in the Outer Bay samples with *Chaetoceros* sp. dominating and even reaching bloom levels at Kastisna Bay. This week we also observed *Dinophysis* sp. at low levels at several locations. *Dinophysis* spp. are another harmful algal bloom species of concern in Kachemak Bay. This dinoflagellate can produce okadaic acid which can lead to diarrhetic shellfish poisoning when it accumulates in shellfish and is consumed. All commercially harvested shellfish are regulated by DEC and are considered safe for consumption.

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

Rosie Masui & Jasmine Maurer

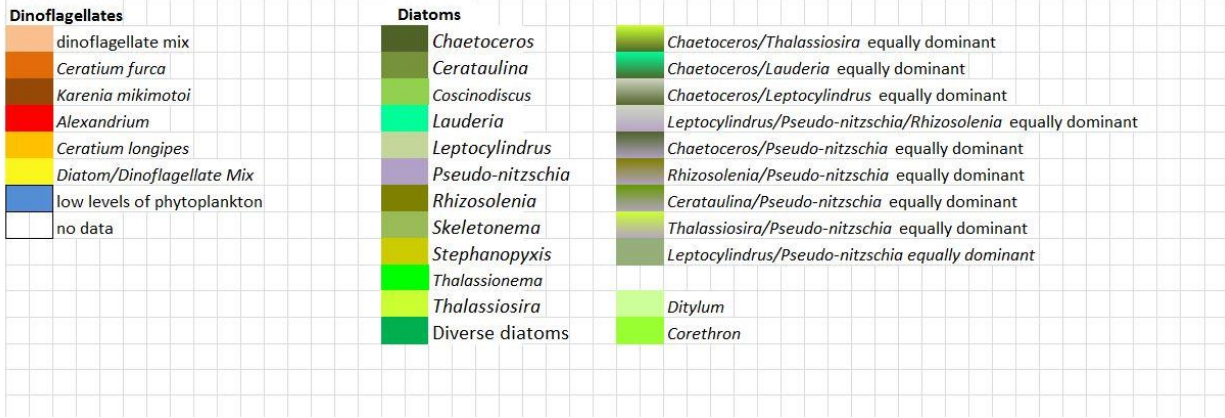
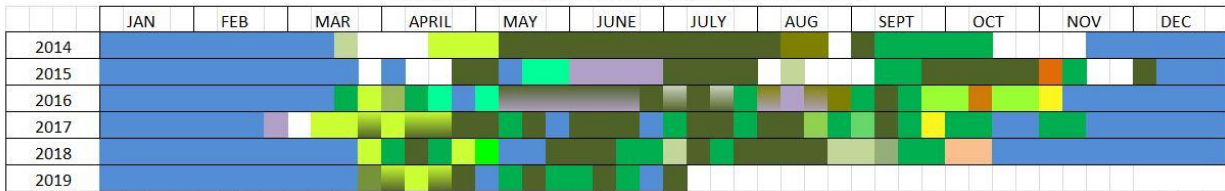
Kachemak Bay Research Reserve Phytoplankton Update Qualitative Analysis Phytoplankton Data

INNER BAY

DATE	Bay	Water Temp	Salinity	Dominant species	Dinophysis	Pseudo-nitzschia	Alexandrium
6/18/2019*	Peterson Bay	7	30	Sparse Sample	None	None	None
6/18/2019*	China Poot	9.5	32	Sparse Sample	None	None	None
6/24/2019*	China Poot	12.5	30	Sparse Sample	Present	None	None
6/25/2019*	Peterson Bay	16	27	Sparse Sample	None	None	None
6/28/2019	Peterson Bay	13	31	Sparse Sample	None	None	None
7/2/2019	Homer Harbor	15.5	24.5	Mixed Diatoms	Present	Present	None
7/2/2019	Halibut Cove	16	25	Sparse Sample	None	None	None

*Samples received after last weekly update

Outer Kachemak Bay 2014 - 2019
Sadie, Tutka, Jakolof, Eldred Pass, Kasitsna, Seldovia, Pt. Graham



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