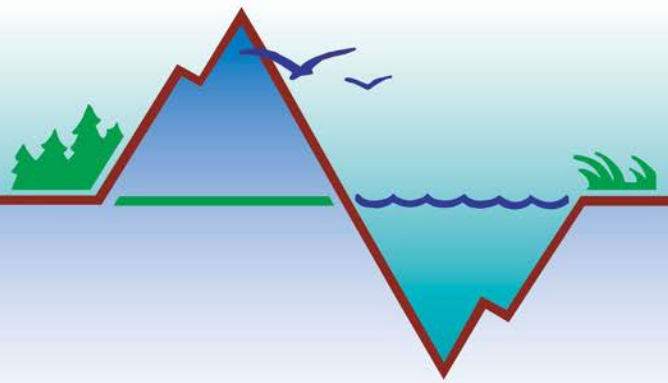


Kachemak Bay Research Reserve Phytoplankton Update

August 9th – August 15th 2019

Harmful Algal Bloom Program

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



Hello Everyone,

We have the results in from our wild shellfish toxin testing program! The blue mussels collected from Homer Harbor on 8/9/2019 came in below the regulatory limit for saxitoxins. KBNERR is not a regulatory agency and harvesting wild shellfish in Alaska is considered 'dig at your own risk'. All commercially harvested shellfish are regulated by the DEC and considered safe for consumption.

Several Inner Bay sites continue to have sparse phytoplankton in contrast to abundant phytoplankton at Outer Bay sites, including a *Pseudo-nitzschia* bloom in Jakolof Bay. *Pseudo-nitzschia* has been abundant in Outer Bay samples since mid-July; see the phenology graphs at the end of this update. There are three species we highlight in the Weekly Updates that are the species of concern in Kachemak Bay, *Dinophysis*, *Pseudo-nitzschia*, and *Alexandrium*. When we see any of these three in abundance we work through our follow-up procedures. If something is of concern we will share those findings with you and our partners throughout Kachemak Bay communities.

Please reach out if you have any questions.

Thanks to all of 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
8/11/2019	Bear Cove	15	21	Sparse Sample	Present	Present	None
8/13/2019	Halibut Cove	14	25	Sparse Sample	None	Present	None
8/14/2019	Homer Harbor	13.6	26.6	<i>Thalassionema</i>	Present	Present	Present

*Samples received after last weekly update

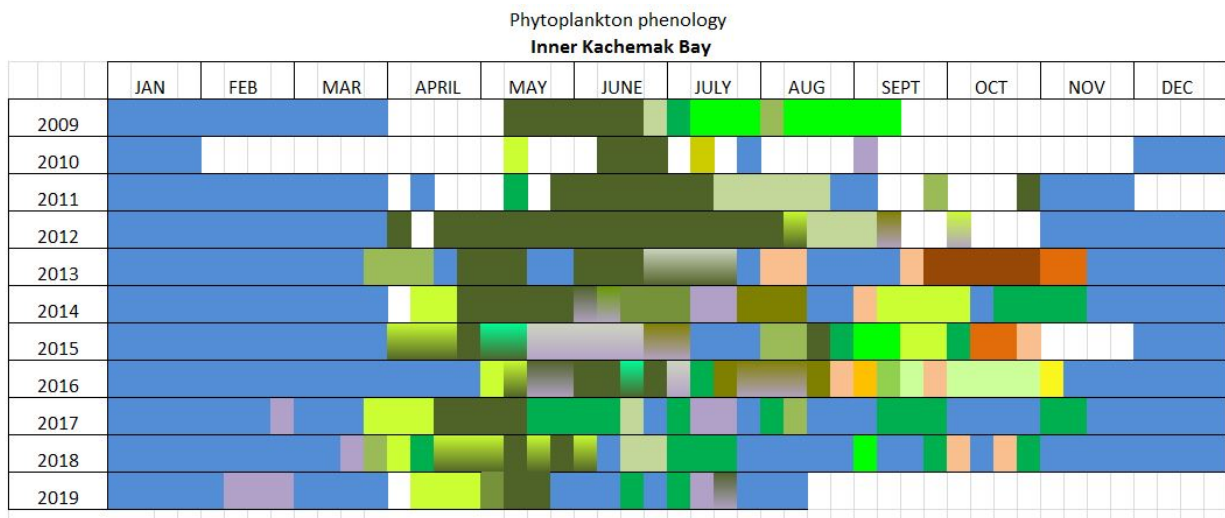
OUTER BAY

DATE	Bay	Water Temp	Salinity	Dominant species	Dinophysis	Pseudo-nitzschia	Alexandrium
8/8/2019	Seldovia Harbor	14.9	30	<i>Pseudo-nitzschia</i>	Present	Present	None
8/12/2019	Jakolof Bay	13	30	<i>Pseudo-nitzschia</i>	Present	Bloom	Present
8/14/2019	Port Graham	12.9	32	Mixed Diatoms	None	Present	None

*Samples received after last weekly update

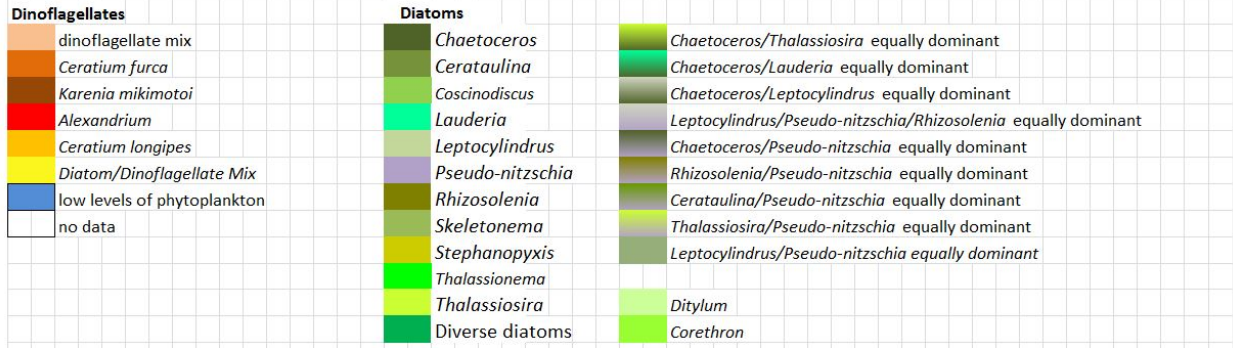
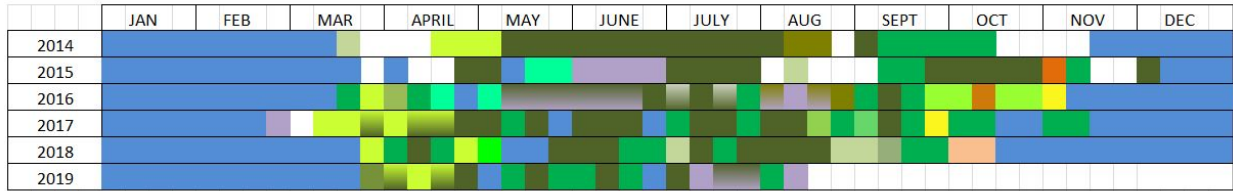
RESURRECTION BAY

DATE	Bay	Water Temp	Salinity	Dominant species	Dinophysis	Pseudo-nitzschia	Alexandrium
8/12/2019	Resurrection Bay	15.2	25.5	Sparse Sample	None	None	None



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
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