

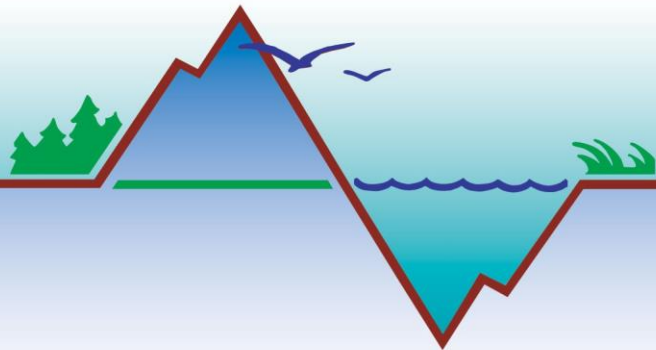
## Kachemak Bay Research Reserve Phytoplankton Update

September 11<sup>th</sup> to September 24<sup>th</sup>, 2020

Harmful Algal Bloom Program

Rosie Masui 907-235-1598 [rmmasui@alaska.edu](mailto:rmmasui@alaska.edu)

Jasmine Maurer 907-235-4799 [jmaurer@alaska.edu](mailto:jmaurer@alaska.edu)



Hello Everyone,

Over the past two weeks phytoplankton in Kachemak Bay have been abundant at all the sites sampled. There are many different species of phytoplankton present without a single group dominating the samples. Some of the species have auxospores present, see image on the right, which are special cells used to restore cell size after many cell divisions leave cells smaller, they also are usually associated with sexual reproduction.

The next KBNERR phytoplankton update will be sent out on October 8<sup>th</sup>. As always, reach out with any questions.

Thanks to all our monitors and partners for the phytoplankton samples!  
Rosie Masui, and Jasmine Maurer



Above in the center of the image is a chain of phytoplankton called *Lauderia*. The two rounded cells are auxospores, which are present at key life stages for some species of phytoplankton.

## Kachemak Bay Research Reserve Phytoplankton Update

### Qualitative Analysis Phytoplankton Data

#### INNER BAY

DATE	Bay	Water Temp	Salinity	Dominant species	Dinophysis	Pseudo-nitzschia	Alexandrium
9/13/2020	Halibut Cove	11	26	Sparse Sample	Present	None	None
9/21/2020	Peterson Bay	10	31	Mixed Diatoms	Present	Present	None

\*Samples received after last weekly update

## **OUTER BAY**

<b>DATE</b>	<b>Bay</b>	<b>Water Temp</b>	<b>Salinity</b>	<b>Dominant species</b>	<b>Dinophysis</b>	<b>Pseudo-nitzschia</b>	<b>Alexandrium</b>
9/16/2020	Tutka Bay	10.5	29.7	Mixed Diatoms	Present	Present	None
9/16/2020	Kasitsna Bay	11.5	29.9	Mixed Diatoms	Present	Present	None
9/16/2020	Sadie Cove	11.5	29.9	Mixed Diatoms	None	Present	None
9/16/2020	Eldred	11.5	29.9	Mixed Diatoms	Present	Present	None
9/20/2020	Jakolof	11	-	Mixed Diatoms	Present	Present	None

\*Samples received after last weekly update



**Kachemak Bay National Estuarine Research Reserve**  
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