

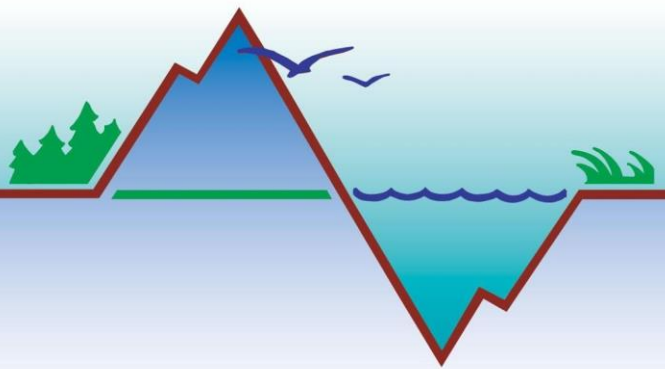
## Kachemak Bay Research Reserve Phytoplankton Update

June 11<sup>th</sup> – June 17<sup>th</sup>, 2021

Harmful Algal Bloom Program

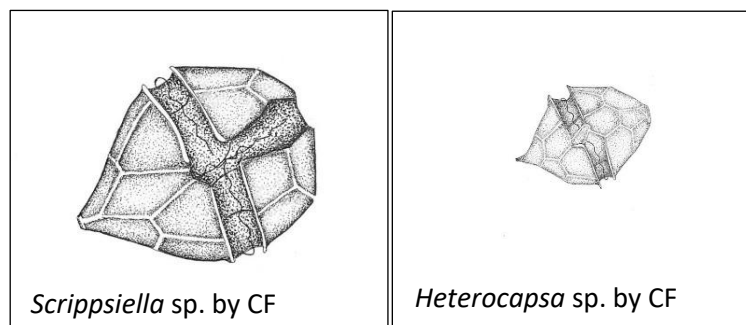
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Hello Everyone,

Phytoplankton samples from inner and outer Kachemak Bay have more phytoplankton overall than last week. We are seeing an abundant amount of *Heterocapsa* spp. in Peterson Bay. This dinoflagellate is one of the smaller ones we see in Kachemak Bay. *Heterocapsa* is similar to *Scrippsiella* spp., which was abundant in Peterson Bay last week. These two phytoplankton can be differentiated by the asymmetrical horn and conical epitheca on *Heterocapsa* sp. as well as its small size, see illustration by Conrad Field for comparison. In outer Kachemak Bay *Chaetoceros socialis* was abundant both in Kasitsna Bay and Eldred Passage.



Thank you to all our monitors for collecting phytoplankton samples!

Jasmine and Rosie

\*\*Due to weather delays, shipping distances and times, the processing of some samples may happen after the weekly update is shared. The results from these samples will be included in subsequent updates, which is why not all sample dates in the tables below fall within the date range of the current Weekly Update.

## Kachemak Bay Research Reserve Phytoplankton Update

### Qualitative Analysis Phytoplankton Data

#### INNER BAY

DATE	Bay	Water Temp	Salinity	Dominant species	Dinophysis	Pseudo-nitzschia	Alexandrium
5/29/2021	China Poot	5.5		Mixed Diatoms	None	Present	None
6/11/2021	Peterson Bay	7.2	30	<i>Heterocapsa</i>	None	Present	None
6/12/2021	China Poot	10	31	Mixed Diatoms	None	Present	None

6/15/2021	Halibut Cove	7	30	Sparse Sample	None	None	None
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## **OUTER BAY**

DATE	Bay	Water Temp	Salinity	Dominant species	Dinophysis	Pseudo-nitzschia	Alexandrium
5/22/2021	Tutka Bay Lagoon	6.6	23.1	Sparse Sample	None	None	None
5/26/2021	Tutka Bay Lagoon	9.5	25.9	Sparse Sample	None	None	None
5/28/2021	Tutka Bay Lagoon	13.6	24.7	Sparse Sample	None	None	None
6/2/2021	Tutka Bay	6.7	29.4	Sparse Sample	None	None	None
6/4/2021	Tutka Bay	8.6	28.5	Sparse Sample	None	None	None
6/11/2021	Tutka Bay Lagoon	8.8	20.7	Sparse Sample	Present	None	None
6/16/2021	Kasitsna Bay	9.5	30.8	<i>Lauderia</i> and <i>C. socialis</i> Bloom	None	Present	None
6/16/2021	Eldred Passage	10.2	29.4	<i>Chaetoceros socialis</i>	None	Present	None



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