Hello Everyone,

We are still seeing some phytoplankton in our samples. None of our samples had any species with elevated numbers but we are still seeing a variety. We will be continuing to sample the Homer Harbor weekly throughout the winter but otherwise will only be taking phytoplankton samples opportunistically. We invite everyone to join us for a lunch lecture tomorrow at the Kachemak Bay Campus in Homer for a presentation on Harmful Algal Blooms in Kachemak Bay and South-Central Alaska.

We have received phytoplankton samples from our partners at Prince William Sound Aquaculture. If anyone is curious about the results from those samples, please reach out. We are happy to share.

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

Kachemak Bay Research Reserve Phytoplankton Update
Qualitative Analysis Phytoplankton Data

INNER BAY

<table>
<thead>
<tr>
<th>DATE</th>
<th>Bay</th>
<th>Water Temp</th>
<th>Salinity</th>
<th>Dominant species</th>
<th>Dinophysis</th>
<th>Pseudo-nitzschia</th>
<th>Alexandrium</th>
</tr>
</thead>
<tbody>
<tr>
<td>10/2/2019</td>
<td>Homer Harbor</td>
<td>10.5</td>
<td>28.7</td>
<td>Cerataulina</td>
<td>Present</td>
<td>Present</td>
<td>None</td>
</tr>
<tr>
<td>10/2/019</td>
<td>Bear Cove</td>
<td>8.8</td>
<td>28.8</td>
<td>Chaetoceros</td>
<td>Present</td>
<td>Present</td>
<td>None</td>
</tr>
<tr>
<td>10/8/2019</td>
<td>Peterson Bay</td>
<td>9.4</td>
<td>30.3</td>
<td>Thalassionema</td>
<td>Present</td>
<td>Present</td>
<td>None</td>
</tr>
<tr>
<td>10/8/2019</td>
<td>Halibut Cove</td>
<td>9.6</td>
<td>30.0</td>
<td>Mixed Diatoms</td>
<td>None</td>
<td>Present</td>
<td>None</td>
</tr>
</tbody>
</table>

*Samples received after last weekly update

OUTER BAY

<table>
<thead>
<tr>
<th>DATE</th>
<th>Bay</th>
<th>Water Temp</th>
<th>Salinity</th>
<th>Dominant species</th>
<th>Dinophysis</th>
<th>Pseudo-nitzschia</th>
<th>Alexandrium</th>
</tr>
</thead>
<tbody>
<tr>
<td>10/8/2019</td>
<td>Jakolof Bay</td>
<td>9.1</td>
<td>30.7</td>
<td>Mixed Diatoms</td>
<td>None</td>
<td>None</td>
<td>Present</td>
</tr>
<tr>
<td>10/8/2019</td>
<td>Kasistna Bay</td>
<td>9.0</td>
<td>30.5</td>
<td>Mixed Diatoms</td>
<td>Present</td>
<td>Present</td>
<td>Present</td>
</tr>
</tbody>
</table>

*Samples received after last weekly update
Phytoplankton phenology
Inner Kachemak Bay

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
- Ceratulina
- Coscinodiscus
- Leptocylindrus
- Pseudo-nitzschia
- Rhizosolenia
- Skeletonema
- Stephanopyxis
- Thalassiosira
- Diverse diatoms

Kachemak Bay National Estuarine Research Reserve
Alaska Center for Conservation Science
University of Alaska Anchorage