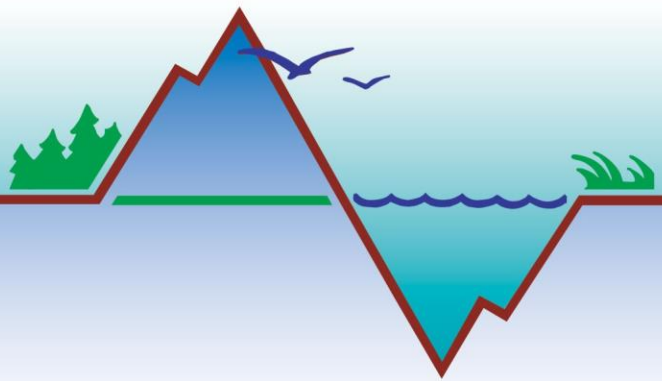


Kachemak Bay Research Reserve Phytoplankton Update

May 17th – 23rd 2019

Harmful Algal Bloom Program

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



Hi all,

We are still seeing *Chaetoceros spp.* dominate in our samples from the greater Kachemak Bay area. This species can lead to deaths of penned salmon since they are not able to swim away from the algal bloom. Currently a different species of phytoplankton is causing large scale die offs of penned salmon in Norway. Below is an article discussing the current impacts that algal bloom is having on their farmed salmon fishery.

<https://www.nytimes.com/2019/05/23/world/europe/salmon-norway-algae-bloom.html>

Thanks to all our monitors for sending in samples and readings this week!

Rosie Robinson, Grace Allan, & 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 |
|-----------|--------------|------------|----------|-------------------------------|------------|------------------|-------------|
| 5/20/2019 | Homer Harbor | 9 | 29 | <i>Chaetoceros spp. bloom</i> | None | Present | None |
| 5/20/2019 | China Poot | - | - | <i>Chaetoceros spp.</i> | None | Present | None |
| 5/20/2019 | Peterson Bay | - | - | <i>Chaetoceros spp. bloom</i> | Present | Present | None |
| 5/21/2019 | Halibut Cove | 8 | 31 | <i>Chaetoceros spp. bloom</i> | None | Present | None |
| 5/21/2019 | Peterson Bay | 9.5 | 34 | <i>Chaetoceros spp. bloom</i> | None | Present | None |

*Samples received after last weekly update

OUTER BAY

| DATE | Bay | Water Temp | Salinity | Dominant species | Dinophysis | Pseudo-nitzschia | Alexandrium |
|-----------|----------------------|------------|----------|-------------------------|------------|------------------|-------------|
| 5/19/2019 | Bootleggers Cove | 8 | 31 | <i>Chaetoceros spp.</i> | None | Present | None |
| 5/20/2019 | Port Graham – Harbor | 7.6 | 30 | <i>Chaetoceros spp.</i> | None | Present | None |

*Samples received after last weekly update

RESURRECTION BAY

| DATE | Bay | Water Temp | Salinity | Dominant species | Dinophysis | Pseudo-nitzschia | Alexandrium |
|------------|-----------|------------|----------|------------------|------------|------------------|-------------|
| 5/11/2019* | SMIC Dock | 7.2 | 26.6 | Sparse sample | None | None | None |

*Samples received after last weekly update

