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https://www.eoas.ubc.ca/



Shellfish closures:

October 2016 Early March 2017



http://www.dem.ri.gov/shellfishclosure/pdf/hab-infomeeting.pdf









RI Sea Grant Program Development:

1) Phytoplankton toxin production and rates of transfer to shellfish.

2) Occurrence, abundance, and distribution of *Pseudonitzschia* and *Alexandrium* taxa.

3) Use of blue mussels (*Mytilus edulis*) as an early warning biotoxin indicator species.



Our proposal:

- 1. seek the most appropriate sentinel station in RIS
- 2. establish the occurrence, abundance, and distribution of the *Pseudo-nitzschia* spp., *Alexandrium* spp., and *Dinophysis* spp.
- 3. relate domoic acid uptake in blue mussels (*Mytilus edulis*) with *Pseudo-nitzschia* abundance and toxin content



1. Sentinel station:

Passive particle-tracking methods with realistic model circulation fields



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3. relate domoic acid uptake in blue mussels (*Mytilus edulis*) with *Pseudo-nitzschia* abundance and toxin content.



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improved management of shellfish resources

