

The Impacts of Sea-ice on Hydrographic Structure and Nutrients over the Eastern Bering Sea Shelf

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Goals: To measure variability (along-shelf and cross-shelf) of physical, chemical and biological properties, and to provide the hydrography to all PIs.

Measurements:

CTD – temperature, salinity, fluorescence, oxygen, PAR, transmittance*

Discrete – salinity, oxygen, dissolved nutrients (phosphate, nitrate, silicic acid, nitrite, ammonium), chlorophyll (>5 μm , <5 μm , total)*

Underway – temperature, salinity, fluorescence, nitrate*, oxygen*

Ice Cores – profiles of temperature, salinity, chlorophyll, nutrients

Brine – salinity, nutrients, chlorophyll, oxygen

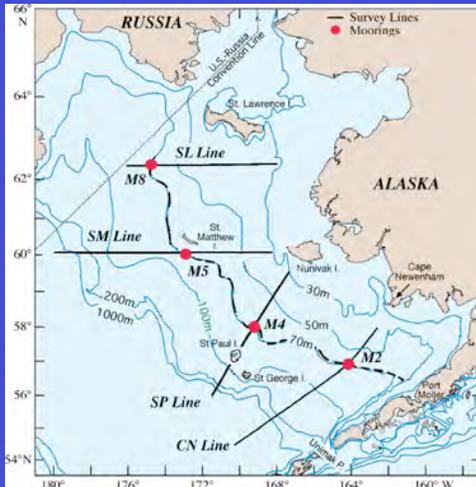
Satellite Tracked Drifters – 5 deployments

Event log – hydrocasts and ice stations

* not yet funded or instrumentation not yet available

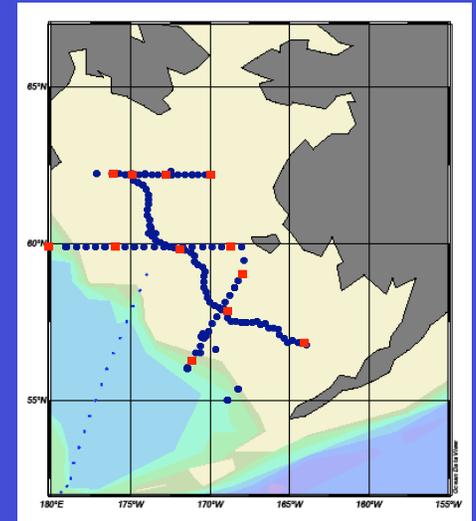
Questions: Responsibility for the distribution of the ship's underway data, ice logs, and event log to the PIs.

Proposed hydrographic lines and mooring locations

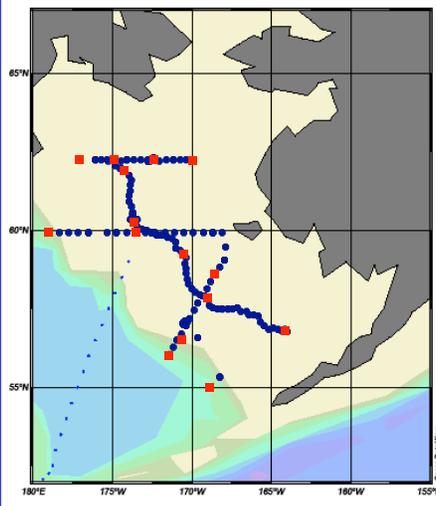


123 CTD/optical casts

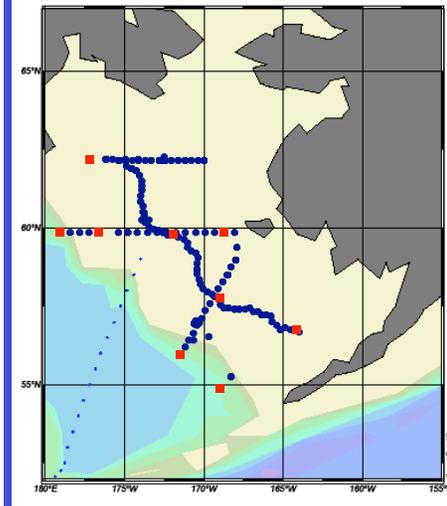
12 Process stations
6 hrs per station



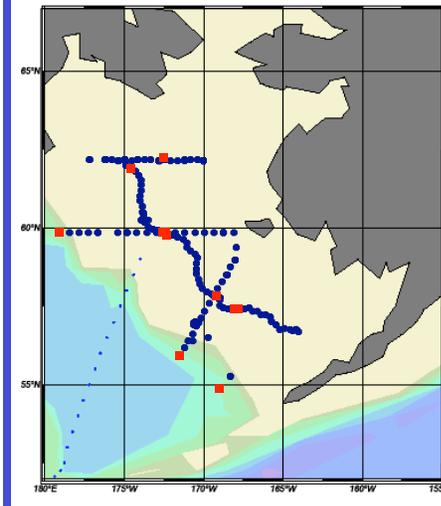
Cruise plan for the period of April 1 – April 19



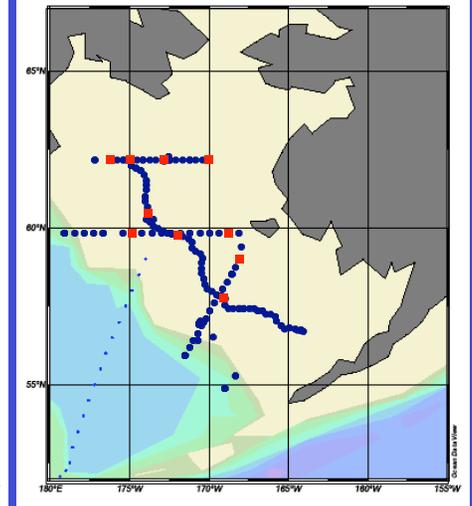
15 Iron stations
80 min per station



9 Ra stations



12 Multicore



10 Ice stations
5 hrs per station