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 um, <5 um, 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

Cruise plan for the period of April 1 – April 19

123 CTD/optical casts

12 Process stations
6 hrs per station

15 Iron stations
80 min per station

9 Ra stations

12 Multicore

10 Ice stations
5 hrs per station