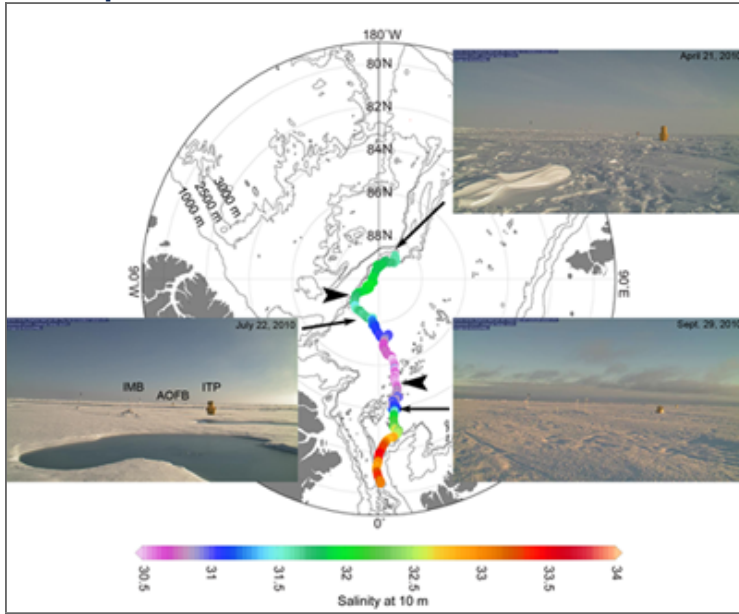


Ice-Tethered Profiler

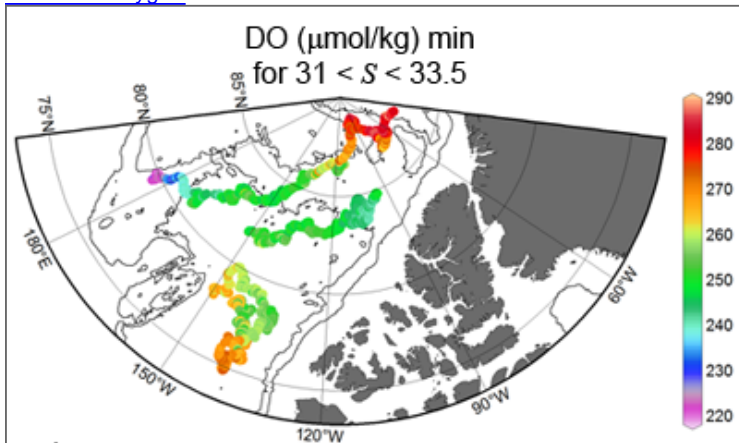
Hot Topics



Freshwater shifts

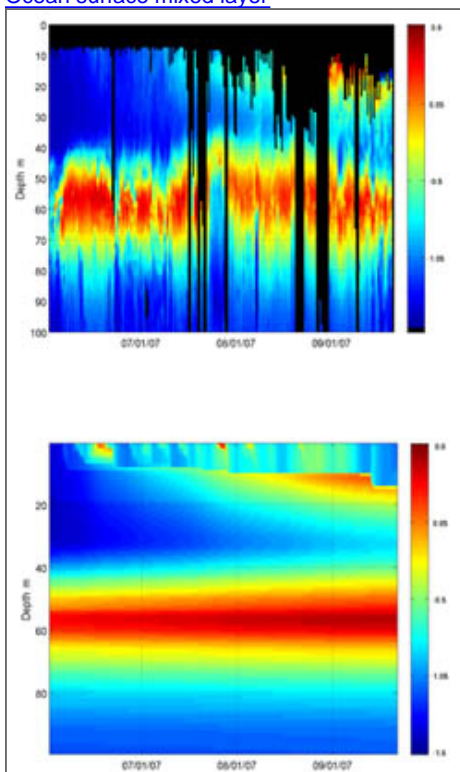
Data collected by an autonomous Ice-Based Observatory that drifted in the Eurasian Basin between April and November 2010 indicate that the upper ocean was appreciably fresher than in 2007 and 2008.

Dissolved Oxygen



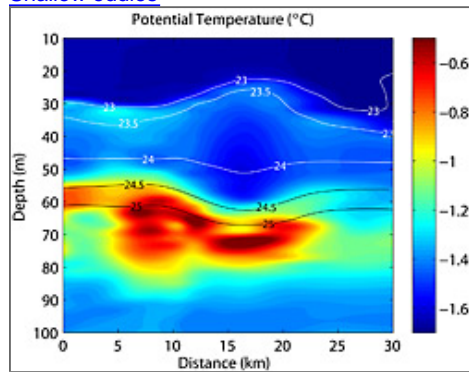
ITPs provide year-round dissolved oxygen measurements under permanent sea-ice cover in the Arctic Ocean.

Ocean surface mixed layer



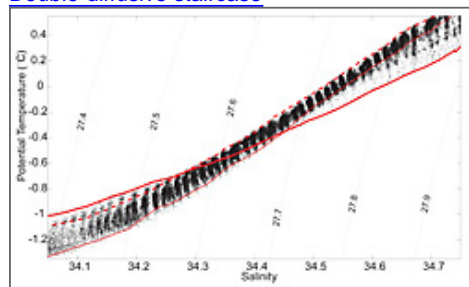
Variations in the Arctic Central Canada Basin mixed layer properties are documented based on a subset of nearly 6500 temperature and salinity profiles acquired by Ice-Tethered Profilers during the period summer 2004 to summer 2009 and analyzed in conjunction with sea ice observations from Ice Mass Balance Buoys and atmosphere-ocean heat flux estimates.

Shallow eddies



ITPs deployed between 2004 and 2006 have made 21 anticyclonic eddy encounters in the central Canada Basin of the Arctic Ocean. The 12 to 35-m thick eddies have center depths between 42 and 69 m in the Arctic halocline, and are shallower and less dense than the majority of eddies observed previously in the central Canada Basin.

Double-diffusive staircase



Six ITPs deployed in the central Canada Basin of the Arctic Ocean between 2004 and 2007, have provided detailed potential temperature and salinity measurements of a double-diffusive staircase at about 200-300-m depth.

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Mail: Woods Hole Oceanographic Institution, 266 Woods Hole Road, Woods Hole, MA 02543, USA.

E-Contact: info@whoi.edu; press relations: media@whoi.edu, tel. (508) 457-2000

Problems or questions about the site, please contact webdev@whoi.edu