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Ice-Tethered Profiler: ITP 11 Data Description

In the surface package, the GPS receiver obtained locations, buoy temperature and battery voltage status every hour, while the package circled the perimeter of the Beaufort Gyre from the northwest around to the southwest for over two years. The ITP profiler was configured with a standard battery to operate on a standard sampling schedule of 2 one-way profiles each day, with an expected battery lifetime of about 1500 profiles. However, the ITP attempted 1690 profiles, most (91%) which were nearly full profiles (with exceptions from of the software reset problem, obstruction with the bottom, and near the end due to excessive drift speeds).

The plots to the right are of the final, calibrated, edited data (as opposed to the raw data presented on the active instrument pages).

See the Data Products tab to the left for descriptions of the three levels (I, II, III) of data processing and to access all data.

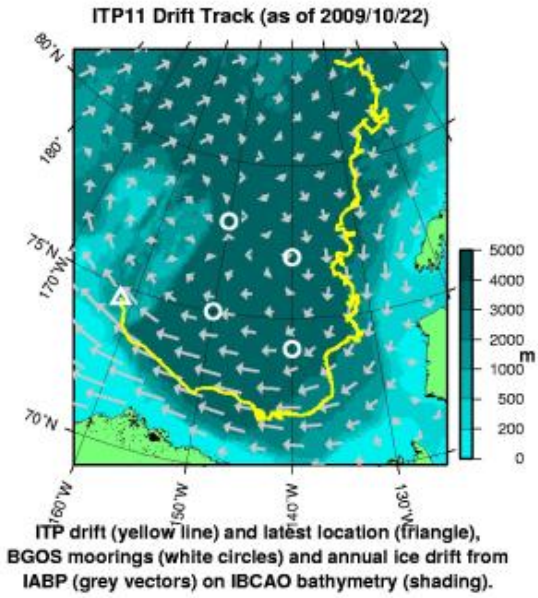
ITP 11 data can also be found at the links below:

Level II hourly buoy location data in ASCII format: itp11rawlocs.dat

Level III 1-Hz processed profile data in MATLAB format: itp11cormat.tar.Z and itp11cormat.zip

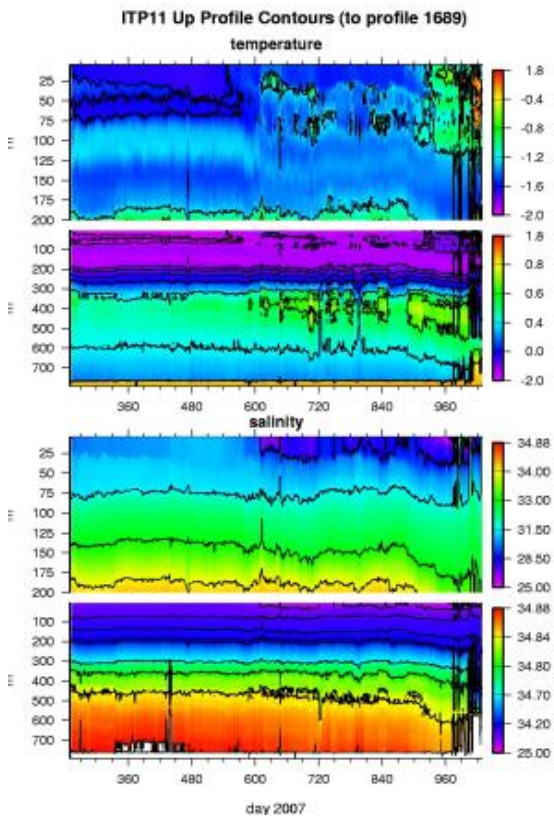
Level III 1-db bin-averaged processed profile data in MATLAB format: itp11final.mat
Level III 1-db bin-averaged processed profile data in ASCII format: itp11final.tar.Z and itp11final.zip

Last updated: October 19, 2015



Enlarge Image

Plot of buoy locations.



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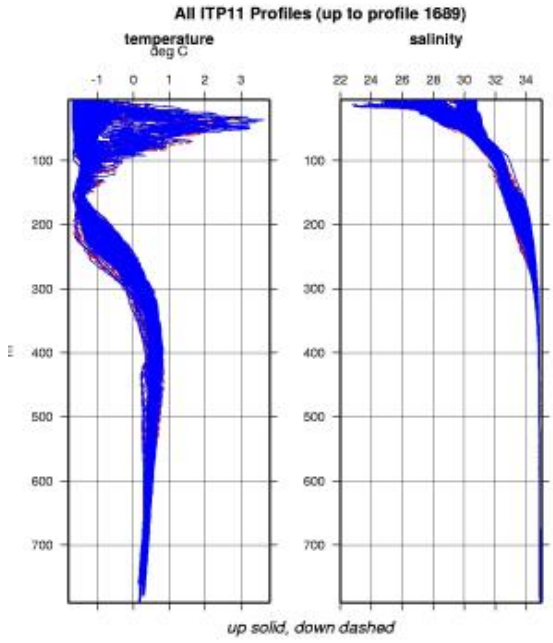
ITP 11 temperature and salinity contours.



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Composite plot of ITP temperature and salinity profiles.

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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
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