Print

Ice-Tethered Profiler: Data Products

How to acknowledge ITP data:

We ask that the following acknowledgment be given when ITP data are used:

"The Ice-Tethered Profiler data were collected and made available by the Ice-Tethered Profiler Program (Toole et al., 2011; Krishfield et al., 2008) based at the Woods Hole Oceanographic Institution (http://www.whoi.edu/itp)."

If you are using ITP data, please provide us with a citation to include in our compilation of publications that utilize ITP data (contact us).

Related Files

» ITP Data Processing Procedures
The processing procedure implemented on data from the first 5 ITPs that were deployed to produce final (Level 3 data).

» ITP File Documentation
Documentation of the file formats for the three different data levels.

Data from ITPs (See the Technology section under Background for detailed description of the raw observations) at three levels of processing are available via FTP here:

Access ITP data

LEVEL 1 RAW DATA are received from each ITP after each one-way profile is completed. The data are made available via the FTP site shortly after reception (typically within a few hours) by an automated routine. GPS position information for each system are received once per day and also made available via the ITP FTP site. The location data are unedited and unfiltered; the scientific and engineering data are extracted from the binary files transmitted by the ITPs and saved in MATLAB format (one file per profile), but no other processing, cleaning or smoothing is performed.

Level 1 profile data files from each ITP system have been compressed in two forms as files named itpNrawmat.tar.Z and itpNrawmat.zip, where N is the ITP system number. For detailed documentation of the data format, download the linked pdf files at right. The GPS position data are contained in ascii-format files named itpNrawlocs.dat.

LEVEL 2 REAL TIME DATA are created from the Level 1 raw data by automated routines. File updates occur several times per day. At this level of processing, the location data are filtered and interpolated to the times of each profile, while the scientific and engineering data are averaged in 2-db bins. No sensor response corrections, secondary calibration or editing are applied to these products. This form of the data are displayed graphically in the Status pages above. Level 2 data are compressed in two forms as files named itpNgriddata.tar.Z and itpNgriddata.zip, where N is the ITP system number. In addition, the most recently-acquired data from each ITP system are available on the FTP web site under the file name itpNlast.dat. For detailed documentation of the data format, download the linked pdf files at right.

LEVEL 3 ARCHIVE DATA are our best estimates of the ocean properties derived from the ITP sensor observations. These data have had sensor response corrections applied, regional conductivity adjustments made based on historical hydrographic data, and edits performed. Level 3 data products are derived for each ITP system after its mission has ended. A full description of the ITP data processing procedure is provided here. Level 3 data are available in two forms. The first are Matlab-format files (one file per profile) holding corrected data at the basic sensor sample rate. These files are compressed into files named itpNcormat.tar.Z and itpNcormat.zip. For detailed documentation of the data format, download the linked pdf files at right. The second form of Level 3 data have been pressure-bin-averaged at 1-db vertical resolution. Again, these data have been compressed and are available in files named itpNfinal.tar.Z and itpNfinal.zip. For detailed documentation of the data format, download the linked pdf files at right. This form of ITP data is being submitted to the national data archives.

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