

CTD Data Files

IOS Cruise Number 2007-20

Cruise

There were 107 CTD casts performed aboard the *CCGS Louis S. St-Laurent* during August 2006 using a SBE911+ CTD system with 24 10-L Niskins. XCTDs, vertical net tows for zooplankton, moorings and ice-tethered profilers were also conducted/deployed/recovered during this trip.

Data Summary

The CTD data for down and upcasts are provided in 1-db averaged files (*.cnv), in Seabird's text format with one file per cast and separate files for down and up direction. The files contain both processed and unprocessed variables, described below. **The downcast files are the primary data set however the upcast files are provided as reference. The upcast are usefull in confirming unusual features seen in the downcast.**

Downcast

Filename: d2006720_xxx.cnv where xxx is cast number

Standard seabird processing steps were used.

Pressure, primary and secondary temperature, and primary and secondary conductivity and oxygen have been calibrated.

Spikes in primary temperature and primary conductivity have been interpolated over and where needed secondary values have replaced the primary values.

Derived variables, salinity, potential temperature, sigma-theta and sound velocity, were recalculated.

Transmission, fluorescence, altimetry, PAR, SPAR, and ISUS nitrate have not been calibrated.

Upcast

Filename: u200720_xxx.cnv where xxx is cast number

Upcast is supplied only as it provides a reference for unusual features seen in the downcast.

Standard seabird processing steps were used.

No spikes have been removed.

Pressure, primary and secondary temperature, and primary and secondary conductivity have been calibrated. Oxygen has downcast calibration applied.

Due to pressure hysteresis in oxygen the upcast is only useful for reference, and should not be considered calibrated.

Derived variables, salinity, potential temperature, sigma-theta and sound velocity, were recalculated.

Transmission, fluorescence, altimetry, PAR, SPAR, and ISUS nitrate have not been calibrated.