Title: BASIS DBO Data

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Data Set Overview:
August, 2003 through September, 2014
Latitude: 61.944 – 68.507 North
Longitude: -175.208 –-166.916 West
DBO regions 1-3
http://www.afsc.noaa.gov/ABL/EMA/EMA_default.php

Instrument:
Seabird Electronics 9-11 CTD equipped with auxillary sensors (Wetlabs fluorometer, NTU turbidity, Oxygen, Biospherical PAR,

Data Collection and Processing:
Data was collected at oceanographic DBO stations using a CTD and carousel with Niskin bottle rosette. Water samples were collected for Salinity and Chlorophyll a analysis and the resulting data was used to corrected for any inline instrument drift. Raw data was processed using downcast files and binned to 1m increments, correcting for any ship heave and data spikes. Data is checked for any obvious errors and values that are 'out of reasonable range'.

Data Format:
Data is submitted in CSV format

DBORegion - DBO bounding region where data was collected (DBO 1-3)

StationID – Internal station naming (year (4 digits), ship code (2 digits), cruiseID (2 digits), and station number (3 digits).

GearCode - What type of gear was used to collect the data

Year - Year in which the data was collected

Date - in GMT

StationNumber- consecutive through survey for each time the ship stops and gear enters the water

Latitude - Latitude in Decimal Degrees

Longitude - Longitude in Decimal Degrees

Bottom Depth - Depth of water column in meters

SampleDepth – of CTD in meters

Temperature - Degrees C

Salinity – PSU

Chlorophyll A – ug/L

BeamTransmission – Light transmission through water column (%)

PARIrradiance – in microEinsteins

OxygenSat - percent saturation (Not QA'd)

SigmaTheta – kg/m3 derived

PO4 – Phosphate concentration (micromole/L)

SiO4 – Silicic Acid concentration (micromole/L)

NO3 – Nitrate concentration (micromole/L)

NH4 – Ammonia concentration (micromole/L)

Data Remarks:
NA = no data, Oxygen data is not Quality checked

References:
none