

CTD bottle data from R/V Pelican cruises PE03-NGOMEX, PE04-NGOMEX, PE06-NGOMEX, PE09-05, PE11-06 in the Northern Gulf of Mexico, 28-30N 89-94W; 2003-2010 (GoMX NGOMEX project)

Website: <https://www.bco-dmo.org/dataset/3557>

Version: 14 October 2011

Version Date: 2011-10-14

Project

» [NGOMEX - Living Marine Resources of the Northern Gulf of Mexico](#) (GoMX - NGOMEX)

Program

» [Gulf of Mexico - Deepwater Horizon Oil Spill](#) (GoMX - DHOS)

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Dataset Description

Multi Year CTD Bottle Data

Note: No bottle data reported for year 2007

Methods & Sampling

(tbd)

Data Processing Description

Generated from CTD .btl files contributed by Jamie Pierson

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Data Files

File
PELICAN_BTL.csv (Comma Separated Values (.csv), 95.04 KB) MD5:385b3349719526282e861029c23a2620
Primary data file for dataset ID 3557

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Parameters

Parameter	Description	Units
Year	year data collected	yyyy
dataset	dataset id	text
date	date (GMT)	yyyymmdd
time	time(GMT)	hhmmss
lon	longitude (West is negative)	decimal degrees
lat	latitude (South is negative)	decimal degrees
bottle_position	bottle position	integer
date_bottle	date bottle	yyyymmdd
time_bottle	time bottle	hhmmss
Sigma_e00	Sigma-é00, Density sigma-theta	Kg/m ³
TimeS_avg	Elapsed Time average	seconds
TimeS_sdev	Elapsed Time standard of deviation	seconds
DepSM_avg	Depth salt water average	meters
DepSM_sdev	Depth salt water standard of deviation	meters
PrDM_avg	Pressure Digiquartz average	decibars
PrDM_sdev	Pressure Digiquartz standard of deviation	decibars
T090C_avg	Temperature ITS-90 average	degrees celsius
T090C_sdev	Temperature ITS-90 standard of deviation	degrees celsius
Sal00_avg	Salinity Practical average	PSU
Sal00_sdev	Salinity Practical standard of deviation	PSU
Sigma_t00_avg	Density sigma-t average	Kg/m ³
Sigma_t00_sdev	Density sigma-t standard of deviation	Kg/m ³
Sbeox0ML_L_avg	Oxygen SBE 43 average	ml/l
Sbeox0ML_L_sdev	Oxygen SBE 43 standard of deviation	ml/l
Sbeox1ML_L_avg	Oxygen SBE 43-2 average	ml/l
Sbeox1ML_L_sdev	Oxygen SBE 43-2 standard of deviation	ml/l
FIScufa_avg	Fluorescence Turner SCUFA average	ug/L
FIScufa_sdev	Fluorescence Turner SCUFA standard of deviation	ug/L
Par_avg	PAR/Irradiance Biospherical/Licor average	(tbd)

Par_sdev	PAR/Irradiance Biospherical/Licor standard of deviation	(tbd)
Spar_avg	SPAR/Surface Irradiance average	(tbd)
Spar_sdev	SPAR/Surface Irradiance standard of deviation	(tbd)
Bat_avg	Beam Attenuation Chelsea/Seatech/WET Labs CStar average	1/m
Bat_sdev	Beam Attenuation Chelsea/Seatech/WET Labs CStar standard of deviation	1/m
Xmiss_avg	Beam Transmission Chelsea/Seatech/WET Labs CStar average	(tbd)
Xmiss_sdev	Beam Transmission Chelsea/Seatech/WET Labs CStar standard of deviation	(tbd)
Altm_avg	Altimeter average	meters
Altm_sdev	Altimeter standard of deviation	meters

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Instruments

Dataset-specific Instrument Name	CTD Sea-Bird 9
Generic Instrument Name	CTD Sea-Bird 9
Generic Instrument Description	The Sea-Bird SBE 9 is a type of CTD instrument package. The SBE 9 is the Underwater Unit and is most often combined with the SBE 11 Deck Unit (for real-time readout using conductive wire) when deployed from a research vessel. The combination of the SBE 9 and SBE 11 is called a SBE 911. The SBE 9 uses Sea-Bird's standard modular temperature and conductivity sensors (SBE 3 and SBE 4). The SBE 9 CTD can be configured with auxiliary sensors to measure other parameters including dissolved oxygen, pH, turbidity, fluorometer, altimeter, etc.). Note that in most cases, it is more accurate to specify SBE 911 than SBE 9 since it is likely a SBE 11 deck unit was used. more information from Sea-Bird Electronics

Dataset-specific Instrument Name	Niskin bottle
Generic Instrument Name	Niskin bottle
Generic Instrument Description	A Niskin bottle (a next generation water sampler based on the Nansen bottle) is a cylindrical, non-metallic water collection device with stoppers at both ends. The bottles can be attached individually on a hydrowire or deployed in 12, 24, or 36 bottle Rosette systems mounted on a frame and combined with a CTD. Niskin bottles are used to collect discrete water samples for a range of measurements including pigments, nutrients, plankton, etc.

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Deployments

PE03-NGOMEX

Website	https://www.bco-dmo.org/deployment/58120
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Platform	R/V Pelican
Start Date	2003-06-30
End Date	2003-08-05
Description	<p>2003 Sampling cruise to the Northern Gulf of Mexico Note: Deployment Id assigned by BCO-DMO staff (not official)</p> <p>Methods & Sampling</p> <p>* Sea-Bird SBE 9 Data File: * FileName = C:BACKUPCONFIGBOICOURTA1.dat * Software Version Seasave Win32 V 5.28c * Temperature SN = 031811 * Conductivity SN = 264 * Number of Bytes Per Scan = 30 * Number of Voltage Words = 4 * Number of Scans Averaged by the Deck Unit = 1 * System UpLoad Time = Aug 04 2003 11:21:42 ** Ship: R/V Pelican ** Cruise: BOICOURT 2003 ** Station: A1 ** Latitude: 29 17.389 ** Longitude: 89 44.987 ** Date 04-08-03 ** Time 16:20 GMT # interval = seconds: 0.0416667 # start_time = Aug 04 2003 11:21:42 # Sensors count="13" # sensor Channel="1" # !-- Frequency 0, Temperature -- # TemperatureSensor SensorID="55" # SerialNumber 031811SerialNumber # CalibrationDate 12 jun 02CalibrationDate # UseG_J 1UseG_J # A 0.00000000e+000A # B 0.00000000e+000B # C 0.00000000e+000C # D 0.00000000e+000D # F0_Old 0.000F0_Old # G 4.84672291e-003G # H 6.68269270e-004H # I 2.33131322e-005I # J 1.64663833e-006J # F0 1000.000F0 # Slope 1.00000000Slope # Offset 0.0000Offset # TemperatureSensor # sensor # sensor Channel="2" # !-- Frequency 1, Conductivity -- # ConductivitySensor SensorID="3" # SerialNumber 264SerialNumber # CalibrationDate 8 may 01CalibrationDate # UseG_J 1UseG_J # !-- Cell const and series R are applicable only for wide range sensors. -- # SeriesR 0.0000SeriesR # CellConst 2000.0000CellConst # ConductivityType 0ConductivityType # Coefficients equation="0" # A 0.00000000e+000A # B 0.00000000e+000B # C 0.00000000e+000C # D 0.00000000e+000D # M 0.0M # CPcor -9.57000000e-008CPcor # Coefficients # Coefficients equation="1" # G -4.19440033e+000G # H 4.82653897e-001H # I -1.61166935e-003I # J 1.10042649e-004J # CPcor -9.57000000e-008CPcor # CTcor 3.2500e-006CTcor # !-- WBOTC not applicable unless ConductivityType = 1. -- # WBOTC 0.00000000e+000WBOTC # Coefficients # Slope 1.00000000Slope # Offset 0.00000Offset # ConductivitySensor # sensor # sensor Channel="3" # !-- Frequency 2, Pressure, Digiquartz with TC -- # PressureSensor SensorID="45" # SerialNumber 91105SerialNumber # CalibrationDate 29 jan 03CalibrationDate # C1 -2.308421e+004C1 # C2 -9.603117e-002C2 # C3 7.467294e-003C3 # D1 3.635348e-002D1 # D2 0.000000e+000D2 # T1 3.089052e+001T1 # T2 -4.307788e-004T2 # T3 4.900409e-006T3 # T4 0.000000e+000T4 # Slope 0.99982000Slope # Offset 0.47410Offset # T5 0.000000e+000T5 # AD590M 1.285760e-002AD590M # AD590B -8.801559e+000AD590B # PressureSensor # sensor # sensor Channel="4" # !-- Frequency 3, Temperature, 2 -- # TemperatureSensor SensorID="55" # SerialNumber 03P4247SerialNumber # CalibrationDate 06 jan 03CalibrationDate # UseG_J 1UseG_J # A 0.00000000e+000A # B 0.00000000e+000B # C 0.00000000e+000C # D 0.00000000e+000D # F0_Old 0.000F0_Old # G 4.35997689e-003G # H 6.48854117e-004H # I 2.31522490e-005I # J 1.92152742e-006J # F0 1000.000F0 # Slope 1.00000000Slope # Offset 0.0000Offset # TemperatureSensor # sensor # sensor Channel="5" # !-- Frequency 4, Conductivity, 2 -- # ConductivitySensor SensorID="3" # SerialNumber 042100SerialNumber # CalibrationDate 7 feb 03CalibrationDate # UseG_J 1UseG_J # !-- Cell const and series R are applicable only for wide range sensors. -- # SeriesR 0.0000SeriesR # CellConst 2000.0000CellConst # ConductivityType 0ConductivityType # Coefficients equation="0" # A 0.00000000e+000A # B 0.00000000e+000B # C 0.00000000e+000C # D 0.00000000e+000D # M 0.0M # CPcor -9.57000000e-008CPcor # Coefficients # Coefficients equation="1" # G -9.23048559e+000G # H 1.22635789e+000H # I -2.57278744e-003I # J 2.58397872e-004J # CPcor -9.57000000e-008CPcor # CTcor 3.2500e-006CTcor # !-- WBOTC not applicable unless ConductivityType = 1. -- # WBOTC 0.00000000e+000WBOTC # Coefficients # Slope 1.00000000Slope # Offset 0.00000Offset # ConductivitySensor # sensor # sensor Channel="6" # !-- A/D voltage 0, Oxygen</p>

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Current, Beckman/YSI -- # OxygenSensor SensorID="36" # SerialNumber
130106SerialNumber # CalibrationDate 7 feb 03CalibrationDate # M 4.1284e-007M
# B -2.1881e-010B # Soc 3.4565Soc # Boc -0.0078Boc # Tcor -
0.0330Tcor # Pcor 1.50e-004Pcor # Tau 2.0Tau # Wt 0.67Wt #
OxygenSensor # sensor # sensor Channel="7" # !-- A/D voltage 1, Oxygen
Temperature, Beckman/YSI -- # OxygenSensor SensorID="39" # SerialNumber
SerialNumber # CalibrationDate CalibrationDate # K 8.9970K # C -6.8299C
# OxygenSensor # sensor # sensor Channel="8" # !-- A/D voltage 2,
Transmissometer, Chelsea/Seatech/WET Lab CStar -- #
TransChelseaSeatechWetlabCStarSensor SensorID="59" # SerialNumber
CST488DRSerialNumber # CalibrationDate 6/3/03CalibrationDate # M 21.2430M
# B -1.2110B # PathLength 0.250PathLength #
TransChelseaSeatechWetlabCStarSensor # sensor # sensor Channel="9" # !-- A/D
voltage 3, Fluorometer, WET Labs WETstar -- # FluoroWetlabWetstarSensor
SensorID="21" # SerialNumber SerialNumber # CalibrationDate
02/26/03CalibrationDate # ScaleFactor 1.000ScaleFactor # Vblank 0.037Vblank
# FluoroWetlabWetstarSensor # sensor # sensor Channel="10" # !-- A/D voltage
4, Altimeter -- # AltimeterSensor SensorID="0" # SerialNumber PSA-916-
937SerialNumber # CalibrationDate CalibrationDate # ScaleFactor 16.500ScaleFactor
# Offset 0.000Offset # AltimeterSensor # sensor # sensor Channel="11"
# !-- A/D voltage 5, Free -- # sensor # sensor Channel="12" # !-- A/D voltage 6,
Oxygen Current, Beckman/YSI, 2 -- # OxygenSensor SensorID="36" # SerialNumber
130244SerialNumber # CalibrationDate 19 april 02CalibrationDate # M 2.4642e-
007M # B -6.1604e-010B # Soc 3.1783Soc # Boc -0.0067Boc # Tcor -
0.0330Tcor # Pcor 1.50e-004Pcor # Tau 2.0Tau # Wt 0.67Wt #
OxygenSensor # sensor # sensor Channel="13" # !-- A/D voltage 7, Oxygen
Temperature, Beckman/YSI, 2 -- # OxygenSensor SensorID="39" # SerialNumber
SerialNumber # CalibrationDate CalibrationDate # K 8.9958K # C -6.8191C
# OxygenSensor # sensor # Sensors # datscnv_date = Jul 26 2010 10:53:49, 7.20f #
datscnv_in = D:\Data2003\NGOMEXPelican_CDCTDCTD DATAA1.dat
D:\Data2003\NGOMEXPelican_CDCTDCTD DATAA1.CON # datscnv_ox_tau_correction = yes #
datscnv_bottle_scan_range_source = scans marked with bottle confirm bit, 0, 2 #
datscnv_scans_per_bottle = 49 # bottlesum_date = Jul 26 2010 13:14:02, 7.20f # bottlesum_in
= D:\Data2003\NGOMEXPelican_CDCTDCTD DATAA1.ros
D:\Data2003\NGOMEXPelican_CDCTDCTD DATAA1.CON D:\Data2003\NGOMEXPelican_CDCTDCTD
DATAA1.BL

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Processing Description

BCO-DMO Processing Notes - Awk written to reformat original .btl files contributed by Jamie Pierson to BCO-DMO formatted records - AWK: NGOMEX_2003_CTDbt1_2_BCODMO.awk - Header data for CTD data generated from .btl files - space delimited reformatted to tab delimited - all records with "#" or "*" ignored - blank lines ignored - BCO-DMO header o/p from routine - O/P data with a set of parameters common to all the years of NGOMEX data - Some data values "nd" (not reported for that year) - Station/Dataset Ids containing an apostrophe ('), apostrophe changed to lower case a (a) in the id.

PE04-NGOMEX

Website	https://www.bco-dmo.org/deployment/58121
Platform	R/V Pelican
Start Date	2004-07-28
End Date	2004-08-02
	<p>2004 Sampling cruise to the Northern Gulf of Mexico Note: Deployment Id assigned by BCO-DMO staff (not official)</p> <p>Methods & Sampling * Sea-Bird SBE 9 Data File: * FileName = C:\BACKUP\CONFIG\BOICOURT\JULY 04\STATION3.dat * Software Version Seasave Win32 V 5.30a * Temperature SN = 2518 * Conductivity SN = 1836 * Number of Bytes Per Scan = 30 * Number of Voltage Words = 4 * Number of Scans</p>

Description

Averaged by the Deck Unit = 1 * System UpLoad Time = Jul 29 2004 11:26:02 * NMEA Latitude = 28 46.000 N * NMEA Longitude = 092 22.000 W * NMEA UTC (Time) = 16:34:36 * Store Lat/Lon Data = Add to Header Only ** Ship: R/V PELICAN ** Cruise: BOICOURT 2004 PE0454 ** Station: 3 ** Latitude: 28 46.439 ** Longitude: 92 22.947 ** Date (GMT): 7-29-04 ** Time (GMT): 16:34 # interval = seconds: 0.0416667 # start_time = Jul 29 2004 11:26:02 # Sensors count="13" # sensor Channel="1" # !-- Frequency 0, Temperature -- # TemperatureSensor SensorID="55" # SerialNumber 2518 SerialNumber # CalibrationDate 15 JAN 04 CalibrationDate # UseG_J 1 UseG_J # A 0.0000000e+000 A # B 0.0000000e+000 B # C 0.0000000e+000 C # D 0.0000000e+000 D # F0_Old 0.000 F0_Old # G 4.35768508e-003 G # H 6.40985933e-004 H # I 2.23177036e-005 I # J 2.02676841e-006 J # F0 1000.000 F0 # Slope 1.00000000 Slope # Offset 0.0000 Offset # TemperatureSensor # sensor # sensor Channel="2" # !-- Frequency 1, Conductivity -- # ConductivitySensor SensorID="3" # SerialNumber 1836 SerialNumber # CalibrationDate 22 APR 04 CalibrationDate # UseG_J 1 UseG_J # !-- Cell const and series R are applicable only for wide range sensors. -- # SeriesR 0.0000 SeriesR # CellConst 2000.0000 CellConst # ConductivityType 0 ConductivityType # Coefficients equation="0" # A 0.00000000e+000 A # B 0.00000000e+000 B # C 0.00000000e+000 C # D 0.00000000e+000 D # M 0.0 M # CPcor -9.57000000e-008 CPcor # Coefficients # Coefficients equation="1" # G -4.07338214e+000 G # H 5.60175755e-001 H # I -9.64339754e-004 I # J 8.15271275e-005 J # CPcor -9.57000000e-008 CPcor # CTcor 3.2500e-006 CTcor # !-- WBOTC not applicable unless ConductivityType = 1. -- # WBOTC 0.00000000e+000 WBOTC # Coefficients # Slope 1.00000000 Slope # Offset 0.0000 Offset # ConductivitySensor # sensor # sensor Channel="3" # !-- Frequency 2, Pressure, Digiquartz with TC -- # PressureSensor SensorID="45" # SerialNumber 0461 SerialNumber # CalibrationDate 30 JAN 04 CalibrationDate # C1 -5.122857e+004 C1 # C2 -3.440773e-001 C2 # C3 1.326090e-002 C3 # D1 4.009300e-002 D1 # D2 0.000000e+000 D2 # T1 3.003551e+001 T1 # T2 -3.732322e-004 T2 # T3 3.971920e-006 T3 # T4 3.181770e-009 T4 # Slope 1.00006000 Slope # Offset 0.41170 Offset # T5 0.000000e+000 T5 # AD590M 1.281640e-002 AD590M # AD590B -9.225620e+000 AD590B # PressureSensor # sensor # sensor Channel="4" # !-- Frequency 3, Temperature, 2 -- # TemperatureSensor SensorID="55" # SerialNumber 2556 SerialNumber # CalibrationDate 24 APR 04 CalibrationDate # UseG_J 1 UseG_J # A 0.00000000e+000 A # B 0.00000000e+000 B # C 0.00000000e+000 C # D 0.00000000e+000 D # F0_Old 0.000 F0_Old # G 4.36590530e-003 G # H 6.45029954e-004 H # I 2.34212224e-005 I # J 2.24040916e-006 J # F0 1000.000 F0 # Slope 1.00000000 Slope # Offset 0.0000 Offset # TemperatureSensor # sensor # sensor Channel="5" # !-- Frequency 4, Conductivity, 2 -- # ConductivitySensor SensorID="3" # SerialNumber 2125 SerialNumber # CalibrationDate 22 APR 04 CalibrationDate # UseG_J 1 UseG_J # !-- Cell const and series R are applicable only for wide range sensors. -- # SeriesR 0.0000 SeriesR # CellConst 2000.0000 CellConst # ConductivityType 0 ConductivityType # Coefficients equation="0" # A 0.00000000e+000 A # B 0.00000000e+000 B # C 0.00000000e+000 C # D 0.00000000e+000 D # M 0.0 M # CPcor -9.57000000e-008 CPcor # Coefficients # Coefficients equation="1" # G -1.06861922e+001 G # H 1.57986628e+000 H # I -3.27809550e-003 I # J 3.22735996e-004 J # CPcor -9.57000000e-008 CPcor # CTcor 3.2500e-006 CTcor # !-- WBOTC not applicable unless ConductivityType = 1. -- # WBOTC 0.00000000e+000 WBOTC # Coefficients # Slope 1.00000000 Slope # Offset 0.0000 Offset # ConductivitySensor # sensor # sensor Channel="6" # !-- A/D voltage 0, Oxygen, SBE 43 -- # OxygenSensor SensorID="38" # SerialNumber 0696 SerialNumber # CalibrationDate 28may04 CalibrationDate # Use2007Equation 0 Use2007Equation # CalibrationCoefficients equation="0" # !-- Coefficients for Owens-Millard equation. -- # Boc 0.0000 Boc # Soc 4.5130e-001 Soc # offset -0.5053 offset # Pcor 1.35e-004 Pcor # Tcor 0.0001 Tcor # Tau 0.0 Tau # CalibrationCoefficients # CalibrationCoefficients equation="1" # !-- Coefficients for Sea-Bird equation - SBE calibration in 2007 and later. -- # Soc 0.0000e+000 Soc # offset 0.0000 offset # A 0.0000e+000 A # B 0.0000e+000 B # C 0.0000e+000 C # D0 2.5826e+000 D0 # D1 1.92634e-004 D1 # D2 -4.64803e-002

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D2 #      E 0.0000e+000 E #      Tau20 0.0000 Tau20 #      H1 -3.3000e-002
H1 #      H2 5.0000e+003 H2 #      H3 1.4500e+003 H3 #
CalibrationCoefficients # OxygenSensor # sensor # sensor Channel="7" # !--
A/D voltage 1, Oxygen, SBE 43, 2 -- # OxygenSensor SensorID="38" #
SerialNumber 0691 SerialNumber # CalibrationDate 28may04 CalibrationDate #
Use2007Equation 0 Use2007Equation # CalibrationCoefficients equation="0" #
!-- Coefficients for Owens-Millard equation. -- # Boc 0.0000 Boc # Soc
4.4940e-001 Soc # offset -0.4982 offset # Pcor 1.35e-004 Pcor #
Tcor 0.0001 Tcor # Tau 0.0 Tau # CalibrationCoefficients #
CalibrationCoefficients equation="1" # !-- Coefficients for Sea-Bird equation - SBE
calibration in 2007 and later. -- # Soc 0.0000e+000 Soc # offset 0.0000
offset # A 0.0000e+000 A # B 0.0000e+000 B # C 0.0000e+000 C
# D0 2.5826e+000 D0 # D1 1.92634e-004 D1 # D2 -4.64803e-002
D2 #      E 0.0000e+000 E #      Tau20 0.0000 Tau20 #      H1 -3.3000e-002
H1 #      H2 5.0000e+003 H2 #      H3 1.4500e+003 H3 #
CalibrationCoefficients # OxygenSensor # sensor # sensor Channel="8" # !--
A/D voltage 2, Altimeter -- # AltimeterSensor SensorID="0" # SerialNumber psa
SerialNumber # CalibrationDate CalibrationDate # ScaleFactor 16.500
ScaleFactor # Offset 0.000 Offset # AltimeterSensor # sensor # sensor
Channel="9" # !-- A/D voltage 3, Transmissometer, Chelsea/Seatech/WET Lab CStar --
# TransChelseaSeatechWetlabCStarSensor SensorID="59" # SerialNumber 488dr
SerialNumber # CalibrationDate 6-12-04 CalibrationDate # M 20.1240 M # B
-1.4700 B # PathLength 0.250 PathLength #
TransChelseaSeatechWetlabCStarSensor # sensor # sensor Channel="10" # !--
A/D voltage 4, Fluorometer, Turner SCUFA -- # FluoroTurnerSCUFA_Sensor
SensorID="17" # SerialNumber 0610 SerialNumber # CalibrationDate 6-10-04
CalibrationDate # B 0.00000000e+000 B # MX 1.00000000e+000 MX #
MY 0.00000000e+000 MY # Units 4 Units # ScaleFactor 1.00000000e+000
ScaleFactor # Offset 0.00000000e+000 Offset # FluoroTurnerSCUFA_Sensor #
sensor # sensor Channel="11" # !-- A/D voltage 5, Free -- # sensor # sensor
Channel="12" # !-- A/D voltage 6, Free -- # sensor # sensor Channel="13" #
!-- A/D voltage 7, Free -- # sensor # Sensors # datcnv_date = Jul 26 2010 13:46:30,
7.20f # datcnv_in = D:\Data2004\NGOMEXctd3.dat D:\Data2004\NGOMEXctd3.CON #
datcnv_ox_hysteresis_correction = no # datcnv_ox_tau_correction = yes #
datcnv_bottle_scan_range_source = scans marked with bottle confirm bit, 0, 2 #
datcnv_scans_per_bottle = 49 # bottlesum_date = Jul 26 2010 14:15:25, 7.20f # bottlesum_in
= D:\Data2004\NGOMEXctd3.ros D:\Data2004\NGOMEXctd3.CON D:\Data2004\NGOMEXctd3.BL

```

Processing Description

BCO-DMO Processing Notes - Awk written to reformat original .bti files contributed by Jamie Pierson to BCO-DMO formatted records - AWK: NGOMEX_2004_CTDbti_2_BCODMO.awk - Header data for CTD data generated from .bti files - space delimited reformatted to tab delimited - all records with "#" or "*" ignored - blank lines ignored - BCO-DMO header o/p from routine - O/P data with a set of parameters common to all the years of NGOMEX data - Some data values "nd" (not reported for that year)

Website	https://www.bco-dmo.org/deployment/58122
Platform	R/V Pelican
Start Date	2006-08-04
End Date	2006-08-13
Description	<p>2006 Sampling cruise to the Northern Gulf of Mexico Note: Deployment Id and Chief Scientist assigned by BCO-DMO staff (not official)</p> <p>Methods & Sampling * Sea-Bird SBE 9 Data File: * FileName = C:CTDLudsinB6.dat * Software Version Seasave Win32 V 5.37c * Temperature SN = 1119 * Conductivity SN = 3044 * Number of Bytes Per Scan = 40 * Number of Voltage Words = 5 * Number of Scans Averaged by the Deck Unit = 1 * System UpLoad Time = Aug 13 2006 11:13:03 * NMEA Latitude = 28 59.48 N * NMEA Longitude = 090 04.50 W * NMEA UTC (Time) = 11:13:44 * Store Lat/Lon Data = Append to Every Scan ** Ship: RV Pelican ** Cruise: LUDSIN 06-58 # interval = seconds: 0.0416667 # start_time = Aug 13 2006 11:13:03 # sensor 0 = Frequency 0 temperature, primary, 1119, 27-Sep-05 # sensor 1 = Frequency 1 conductivity, primary, 3044, 18-may-05, cpcor = -9.5700e-08 # sensor 2 = Frequency 2 pressure, 0461, 01-May-06 # sensor 3 = Frequency 3 temperature, secondary, 4515, 26-apr-05 # sensor 4 = Frequency 4 conductivity, secondary, 2100, 28 JUL 05, cpcor = -9.5700e-08 # sensor 5 = Extrnl Volt 0 Oxygen, SBE, primary, 0810, 26-MAY-06 # sensor 6 = Extrnl Volt 1 Oxygen, SBE, secondary, 0803, 13-APR-06 # sensor 7 = Extrnl Volt 2 altimeter # sensor 8 = Extrnl Volt 3 transmissometer, primary, CST, 25 JUN 065 # sensor 9 = Extrnl Volt 4 irradiance (PAR), primary, 4531, 06 JAN 06 # sensor 10 = Extrnl Volt 5 transmissometer, secondary, CST-238PR, 2/22/05 # sensor 11 = Extrnl Volt 6 Fluorometer, Turner, SCUFA, primary # sensor 12 = Extrnl Volt 9 surface irradiance (SPAR), degrees = 0.0 # datcnv_date = Aug 13 2006 11:20:13, 5.37b # datcnv_in = c:CTDLudsin6.dat c:CTDLudsinB6.con # datcnv_bottle_scan_range_source = scans marked with bottle confirm bit, 0, 2 # bottlesum_date = Aug 13 2006 11:20:16, 5.37b # bottlesum_in = c:ctdLudsin6.ros C:CTDLudsinC61.CON c:ctdLudsin6.BL</p> <p>Processing Description BCO-DMO Processing Notes - Awk written to reformat original .btl files contributed by Jamie Pierson to BCO-DMO formatted records - AWK: NGOMEX_2006_CTDbt1_2_BCODMO.awk - Header data for CTD data generated from .btl files - space delimited reformatted to tab delimited - all records with "#" or "*" ignored - blank lines ignored - BCO-DMO header o/p from routine - O/P data with a set of parameters common to all the years of NGOMEX data - Some data values "nd" (not reported for that year)</p>

PE09-05

Website	https://www.bco-dmo.org/deployment/58124
Platform	R/V Pelican
Start Date	2008-08-01
End Date	2008-08-12
	<p>2008 Sampling cruise to the Northern Gulf of Mexico Note: Cruise ID confirmed with R2R catalog Original cruise data are available from the NSF R2R data catalog</p> <p>Methods & Sampling * Sea-Bird SBE 9 Data File: * FileName = C:CTD dataPE09-05 Brandt8-2-0818458-2-081845.hex * Software Version Seasave V 7.12 * Temperature SN = 0657 * Conductivity SN = 040264 * Number of Bytes Per Scan = 40 * Number of Voltage Words = 5 * Number of Scans Averaged by the Deck Unit = 1 * System UpLoad Time = Aug 02 2008 18:49:09 * NMEA Latitude = 28 49.36 N * NMEA Longitude = 090 26.15 W * NMEA UTC (Time) = Aug 02 2008 18:48:58 * Store Lat/Lon Data = Append to Every Scan ** Ship: ** Station: ** Operator: # interval = seconds: 0.0416667 # start_time = Aug 02 2008 18:48:58 # Sensors count="15" # sensor Channel="1" # !-- Frequency 0, Temperature -- # TemperatureSensor SensorID="55" # SerialNumber 0657SerialNumber # CalibrationDate 08 Mar</p>

Description

06CalibrationDate # UseG_J 1UseG_J # A 0.00000000e+000A # B
0.00000000e+000B # C 0.00000000e+000C # D 0.00000000e+000D #
FO_Old 0.000FO_Old # G 4.82420805e-003G # H 6.73461602e-004H # I
2.64768469e-005I # J 2.14551718e-006J # FO 1000.000FO # Slope
1.00000000Slope # Offset 0.0000Offset # TemperatureSensor # sensor #
sensor Channel="2" # !-- Frequency 1, Conductivity -- # ConductivitySensor
SensorID="3" # SerialNumber 040264SerialNumber # CalibrationDate 14 Mar
07CalibrationDate # UseG_J 1UseG_J # !-- Cell const and series R are applicable only
for wide range sensors. -- # SeriesR 0.0000SeriesR # CellConst
2000.0000CellConst # ConductivityType 0ConductivityType # Coefficients
equation="0" # A 0.00000000e+000A # B 0.00000000e+000B # C
0.00000000e+000C # D 0.00000000e+000D # M 0.0M # CPcor -
9.57000000e-008CPcor # Coefficients # Coefficients equation="1" # G -
4.20169422e+000G # H 4.84165785e-001H # I -1.82967448e-003I # J
1.21108509e-004J # CPcor -9.57000000e-008CPcor # CTcor 3.2500e-
006CTcor # !-- WBOTC not applicable unless ConductivityType = 1. -- # WBOTC
0.00000000e+000WBOTC # Coefficients # Slope 1.00000000Slope # Offset
0.00000Offset # ConductivitySensor # sensor # sensor Channel="3" # !--
Frequency 2, Pressure, Digiquartz with TC -- # PressureSensor SensorID="45" #
SerialNumber 0461SerialNumber # CalibrationDate 26-Oct-07CalibrationDate # C1
-5.122857e+004C1 # C2 -3.440773e-001C2 # C3 1.326090e-002C3 # D1
4.009300e-002D1 # D2 0.000000e+000D2 # T1 3.003551e+001T1 # T2 -
3.732322e-004T2 # T3 3.971920e-006T3 # T4 3.181770e-009T4 # Slope
1.00000000Slope # Offset -0.15930Offset # T5 0.000000e+000T5 #
AD590M 1.281640e-002AD590M # AD590B -9.225620e+000AD590B #
PressureSensor # sensor # sensor Channel="4" # !-- Frequency 3, Temperature, 2 -
- # TemperatureSensor SensorID="55" # SerialNumber 4511SerialNumber #
CalibrationDate 16 Mar 07CalibrationDate # UseG_J 1UseG_J # A
0.00000000e+000A # B 0.00000000e+000B # C 0.00000000e+000C # D
0.00000000e+000D # FO_Old 0.000FO_Old # G 4.41110252e-003G # H
6.44708648e-004H # I 2.19014386e-005I # J 1.79495630e-006J # FO
1000.000FO # Slope 1.00000000Slope # Offset 0.0000Offset #
TemperatureSensor # sensor # sensor Channel="5" # !-- Frequency 4, Conductivity,
2 -- # ConductivitySensor SensorID="3" # SerialNumber 2100SerialNumber #
CalibrationDate 25 Sep 07CalibrationDate # UseG_J 1UseG_J # !-- Cell const and
series R are applicable only for wide range sensors. -- # SeriesR 0.0000SeriesR #
CellConst 2000.0000CellConst # ConductivityType 0ConductivityType #
Coefficients equation="0" # A 0.00000000e+000A # B 0.00000000e+000B
C 0.00000000e+000C # D 0.00000000e+000D # M 0.0M #
CPcor -9.57000000e-008CPcor # Coefficients # Coefficients equation="1" #
G -9.22095062e+000G # H 1.22480229e+000H # I -2.25762303e-003I
J 2.20335634e-004J # CPcor -9.57000000e-008CPcor # CTcor 3.2500e-
006CTcor # !-- WBOTC not applicable unless ConductivityType = 1. -- # WBOTC
0.00000000e+000WBOTC # Coefficients # Slope 1.00000000Slope # Offset
0.00000Offset # ConductivitySensor # sensor # sensor Channel="6" # !-- A/D
voltage 0, Oxygen, SBE 43 -- # OxygenSensor SensorID="38" # SerialNumber
0769SerialNumber # CalibrationDate 13-May-08CalibrationDate # Use2007Equation
1Use2007Equation # CalibrationCoefficients equation="0" # !-- Coefficients for
Owens-Millard equation. -- # Boc 0.0000Boc # Soc 3.9370e-001Soc #
offset -0.5328offset # Pcor 1.35e-004Pcor # Tcor -0.0001Tcor # Tau
0.0Tau # CalibrationCoefficients # CalibrationCoefficients equation="1" # !--
Coefficients for Sea-Bird equation - SBE calibration in 2007 and later. -- # Soc 4.0840e-
001Soc # offset -0.5019offset # A -1.2181e-003A # B 8.4003e-005B
C -2.0319e-006C # D0 2.5826e+000D0 # D1 0.0000e+000D1
D2 0.0000e+000D2 # E 3.6000e-002E # Tau20 1.4800Tau20
H1 -3.3000e-002H1 # H2 5.0000e+003H2 # H3 1.4500e+003H3
CalibrationCoefficients # OxygenSensor # sensor # sensor Channel="7" #
!-- A/D voltage 1, Oxygen, SBE 43, 2 -- # OxygenSensor SensorID="38" #
SerialNumber 1419SerialNumber # CalibrationDate 07-May-08CalibrationDate #
Use2007Equation 1Use2007Equation # CalibrationCoefficients equation="0" # !--
Coefficients for Owens-Millard equation. -- # Boc 0.0000Boc # Soc 3.9370e-
001Soc # offset -0.5328offset # Pcor 1.35e-004Pcor # Tcor -
0.0001Tcor # Tau 0.0Tau # CalibrationCoefficients # CalibrationCoefficients

```

equation="1" #      !-- Coefficients for Sea-Bird equation - SBE calibration in 2007 and later.
-- #      Soc 3.6560e-001Soc #      offset -0.5077offset #      A -1.5086e-003A
#      B 2.0717e-004B #      C -3.8732e-006C #      D0 2.5826e+000D0 #
D1 0.00000e+000D1 #      D2 0.00000e+000D2 #      E 3.6000e-002E #
Tau20 1.0900Tau20 #      H1 -3.3000e-002H1 #      H2 5.0000e+003H2 #
H3 1.4500e+003H3 #      CalibrationCoefficients #      OxygenSensor # sensor #
sensor Channel="8" #      !-- A/D voltage 2, PAR/Irradiance, Biospherical/Licor -- #
PAR_BiosphericalLicorChelseaSensor SensorID="42" #      SerialNumber
4560SerialNumber #      CalibrationDate 09 SEP 07CalibrationDate #      M 1.00000000M
#      B 0.00000000B #      CalibrationConstant
26520000000.00000000CalibrationConstant #      Multiplier 1.00000000Multiplier #
Offset -0.109890000Offset #      PAR_BiosphericalLicorChelseaSensor # sensor #
sensor Channel="9" #      !-- A/D voltage 3, Free -- # sensor # sensor Channel="10"
#      !-- A/D voltage 4, Altimeter -- #      AltimeterSensor SensorID="0" #      SerialNumber
937SerialNumber #      CalibrationDate 11 FEB 06CalibrationDate #      ScaleFactor
15.000ScaleFactor #      Offset 0.000Offset #      AltimeterSensor # sensor # sensor
Channel="11" #      !-- A/D voltage 5, Transmissometer, Chelsea/Seatech/WET Lab CStar --
#      TransChelseaSeatechWetlabCStarSensor SensorID="59" #      SerialNumber CST-
868DRSerialNumber #      CalibrationDate 1/24/06CalibrationDate #      M 20.2897M
#      B -1.1156B #      PathLength 0.250PathLength #
TransChelseaSeatechWetlabCStarSensor # sensor # sensor Channel="12" #      !-- A/D
voltage 6, Fluorometer, Turner SCUFA -- #      FluoroTurnerSCUFA_Sensor SensorID="17"
#      SerialNumber 610SerialNumber #      CalibrationDate 27/01/06CalibrationDate #
B 0.00000000e+000B #      MX 1.00000000e+000MX #      MY 0.00000000e+000MY
#      Units 4Units #      ScaleFactor 1.00000000e+000ScaleFactor #      Offset
0.00000000e+000Offset #      FluoroTurnerSCUFA_Sensor # sensor # sensor
Channel="13" #      !-- A/D voltage 7, Free -- # sensor # sensor Channel="14" #      !--
SPAR voltage, Unavailable -- # sensor # sensor Channel="15" #      !-- SPAR voltage,
SPAR/Surface Irradiance -- #      SPAR_Sensor SensorID="51" #      SerialNumber
6409SerialNumber #      CalibrationDate 27 FEB 06CalibrationDate #      ConversionFactor
1729.00000000ConversionFactor #      RatioMultiplier 1.00000000RatioMultiplier #
SPAR_Sensor # sensor # Sensors # datcnv_date = Jul 26 2010 16:16:56, 7.20f #
datcnv_in = D:\Data2008\NGOMEXCTD8-2-0818458-2-081845.hex D:\Data2008\NGOMEXCTD8-
2-0818458-2-081845.CON # datcnv_ox_hysteresis_correction = yes #
datcnv_ox_tau_correction = yes # datcnv_bottle_scan_range_source = scans marked with
bottle confirm bit, 0, 2 # datcnv_scans_per_bottle = 49 # bottlesum_date = Jul 27 2010
10:20:25, 7.20f # bottlesum_in = D:\Data2008\NGOMEXCTD8-2-081845.ros
D:\Data2008\NGOMEXCTD8-2-081540.con

```

Processing Description

BCO-DMO Processing Notes - Awk written to reformat original .bti files contributed by Jamie Pierson to BCO-DMO formatted records - AWK: NGOMEX_2008_CTDbti_2_BCODMO.awk - Header data for CTD data generated from .bti files - space delimited reformatted to tab delimited - all records with "#" or "*" ignored - blank lines ignored - BCO-DMO header o/p from routine - O/P data with a set of parameters common to all the years of NGOMEX data - Some data values "nd" (not reported for that year)

PE11-06

Website	https://www.bco-dmo.org/deployment/58640
Platform	R/V Pelican
Start Date	2010-09-01
End Date	2010-09-07
	<p>2010 Sampling cruise to the Northern Gulf of Mexico Note: Cruise ID confirmed with R2R catalog Original cruise data are available from the NSF R2R data catalog</p> <p>Methods & Sampling * Sea-Bird SBE 9 Data File: * FileName = C:\CTD Data\PE11-06 ROMANC2C2.hex * Software Version Seasave V 7.20a * Temperature SN = 4247 * Conductivity SN = 0264 * Number of</p>

Description

Bytes Per Scan = 40 * Number of Voltage Words = 5 * Number of Scans Averaged by the Deck Unit = 1 * System UpLoad Time = Sep 06 2010 23:02:41 * NMEA Latitude = 29 01.23 N * NMEA Longitude = 090 27.90 W * NMEA UTC (Time) = Sep 06 2010 23:03:17 * Store Lat/Lon Data = Append to Every Scan ** Ship: ** Station: ** Operator: # interval = seconds: 0.0416667 # start_time = Sep 06 2010 23:03:17 # Sensors count="15" # sensor Channel="1" # !-- Frequency 0, Temperature -- # TemperatureSensor SensorID="55" # SerialNumber 4247SerialNumber # CalibrationDate 24-Mar-10CalibrationDate # UseG_J 1UseG_J # A 0.00000000e+000A # B 0.00000000e+000B # C 0.00000000e+000C # D 0.00000000e+000D # F0_Old 0.000F0_Old # G 4.35966130e-003G # H 6.48328817e-004H # I 2.27867318e-005I # J 1.83853908e-006J # F0 1000.000F0 # Slope 1.00000000Slope # Offset 0.0000Offset # TemperatureSensor # sensor # sensor Channel="2" # !-- Frequency 1, Conductivity -- # ConductivitySensor SensorID="3" # SerialNumber 0264SerialNumber # CalibrationDate 05-Mar-10CalibrationDate # UseG_J 1UseG_J # !-- Cell const and series R are applicable only for wide range sensors. -- # SeriesR 0.0000SeriesR # CellConst 2000.0000CellConst # ConductivityType 0ConductivityType # Coefficients equation="0" # A 0.00000000e+000A # B 0.00000000e+000B # C 0.00000000e+000C # D 0.00000000e+000D # M 0.0M # CPcor -9.57000000e-008CPcor # Coefficients # Coefficients equation="1" # G -4.20097762e+000G # H 4.83930984e-001H # I -1.79318752e-003I # J 1.19240358e-004J # CPcor -9.57000000e-008CPcor # CTcor 3.2500e-006CTcor # !-- WBOTC not applicable unless ConductivityType = 1. -- # WBOTC 0.00000000e+000WBOTC # Coefficients # Slope 1.00000000Slope # Offset 0.000000Offset # ConductivitySensor # sensor # sensor Channel="3" # !-- Frequency 2, Pressure, Digiquartz with TC -- # PressureSensor SensorID="45" # SerialNumber 0461SerialNumber # CalibrationDate 10-Dec-09 CalibrationDate # C1 -5.122857e+004C1 # C2 -3.440773e-001C2 # C3 1.326090e-002C3 # D1 4.009300e-002D1 # D2 0.000000e+000D2 # T1 3.003551e+001T1 # T2 -3.732322e-004T2 # T3 3.971920e-006T3 # T4 3.181770e-009T4 # Slope 0.99999900Slope # Offset -0.35200Offset # T5 0.000000e+000T5 # AD590M 1.281640e-002AD590M # AD590B -9.225620e+000AD590B # PressureSensor # sensor # sensor Channel="4" # !-- Frequency 3, Temperature, 2 -- # TemperatureSensor SensorID="55" # SerialNumber 1119SerialNumber # CalibrationDate 19-Nov-09 CalibrationDate # UseG_J 1UseG_J # A 0.00000000e+000A # B 0.00000000e+000B # C 0.00000000e+000C # D 0.00000000e+000D # F0_Old 0.000F0_Old # G 4.83755952e-003G # H 6.62505866e-004H # I 2.31895083e-005I # J 1.73996635e-006J # F0 1000.000F0 # Slope 1.00000000Slope # Offset 0.0000Offset # TemperatureSensor # sensor # sensor Channel="5" # !-- Frequency 4, Conductivity, 2 -- # ConductivitySensor SensorID="3" # SerialNumber 3044SerialNumber # CalibrationDate 20-Nov-09 CalibrationDate # UseG_J 1UseG_J # !-- Cell const and series R are applicable only for wide range sensors. -- # SeriesR 0.0000SeriesR # CellConst 2000.0000CellConst # ConductivityType 0ConductivityType # Coefficients equation="0" # A 0.00000000e+000A # B 0.00000000e+000B # C 0.00000000e+000C # D 0.00000000e+000D # M 0.0M # CPcor -9.57000000e-008CPcor # Coefficients # Coefficients equation="1" # G -1.05245205e+001G # H 1.49070307e+000H # I -3.97776541e-004I # J 1.06110549e-004J # CPcor -9.57000000e-008CPcor # CTcor 3.2500e-006CTcor # !-- WBOTC not applicable unless ConductivityType = 1. -- # WBOTC 0.00000000e+000WBOTC # Coefficients # Slope 1.00000000Slope # Offset 0.000000Offset # ConductivitySensor # sensor # sensor Channel="6" # !-- A/D voltage 0, Oxygen, SBE 43 -- # OxygenSensor SensorID="38" # SerialNumber 1419SerialNumber # CalibrationDate 16-JUL-10CalibrationDate # Use2007Equation 1Use2007Equation # CalibrationCoefficients equation="0" # !-- Coefficients for Owens-Millard equation. -- # Boc 0.0000Boc # Soc 0.0000e+000Soc # offset 0.0000offset # Pcor 0.00e+000Pcor # Tcor 0.0000Tcor # Tau 0.0Tau # CalibrationCoefficients # CalibrationCoefficients equation="1" # !-- Coefficients for Sea-Bird equation - SBE calibration in 2007 and later. -- # Soc 4.3610e-001Soc # offset -0.5149offset # A -3.4704e-003A # B 1.9595e-004B # C -3.4627e-006C # D0 2.5826e+000D0 # D1 1.92630e-004D1 # D2 -4.64800e-002D2 # E 3.6000e-002E # Tau20 1.2000Tau20 # H1 -3.3000e-002H1 # H2 5.0000e+003H2 # H3 1.4500e+003H3 # CalibrationCoefficients # OxygenSensor # sensor # sensor Channel="7" # !-- A/D voltage 1, Oxygen, SBE 43, 2 -- # OxygenSensor SensorID="38" # SerialNumber 0803SerialNumber # CalibrationDate 16-JUL-10CalibrationDate # Use2007Equation 1Use2007Equation # CalibrationCoefficients equation="0" # !-- Coefficients for Owens-Millard equation. -- # Boc 0.0000Boc # Soc 0.0000e+000Soc # offset 0.0000offset # Pcor 0.00e+000Pcor # Tcor 0.0000Tcor # Tau 0.0Tau # CalibrationCoefficients # CalibrationCoefficients equation="1" # !-- Coefficients for Sea-Bird equation - SBE calibration in 2007 and later. -- # Soc 4.1520e-001Soc # offset -0.5208offset # A -3.5112e-003A # B 1.9491e-004B # C -3.4089e-006C # D0 2.5826e+000D0 # D1 1.92630e-004D1 # D2 -4.64800e-002D2 # E 3.6000e-002E # Tau20 1.0400Tau20 # H1 -3.3000e-002H1 # H2 5.0000e+003H2 # H3 1.4500e+003H3 #

CalibrationCoefficients # OxygenSensor # sensor # sensor Channel="8" # !-- A/D voltage 2, Altimeter -- # AltimeterSensor SensorID="0" # SerialNumber 1205SerialNumber # CalibrationDate 03-oct-08CalibrationDate # ScaleFactor 15.000ScaleFactor # Offset 0.000Offset # AltimeterSensor # sensor # sensor Channel="9" # !-- A/D voltage 3, Transmissometer, Chelsea/Seatech/WET Lab CStar -- # TransChelseaSeatechWetlabCStarSensor SensorID="59" # SerialNumber CST-868DRSerialNumber # CalibrationDate May-5-10CalibrationDate # M 19.7691M # B -1.1104B # PathLength 0.250PathLength # TransChelseaSeatechWetlabCStarSensor # sensor # sensor Channel="10" # !-- A/D voltage 4, PAR/Irradiance, Biospherical/Licor -- # PAR_BiosphericalLicorChelseaSensor SensorID="42" # SerialNumber 70292SerialNumber # CalibrationDate 06-18-10CalibrationDate # M 1.0000000M # B 0.0000000B # CalibrationConstant 12626262630.00000000CalibrationConstant # Multiplier 1.00000000Multiplier # Offset -0.08143740Offset # PAR_BiosphericalLicorChelseaSensor # sensor # sensor Channel="11" # !-- A/D voltage 5, Free -- # sensor # sensor Channel="12" # !-- A/D voltage 6, Fluorometer, Turner SCUFA -- # FluoroTurnerSCUFA_Sensor SensorID="17" # SerialNumber 610SerialNumber # CalibrationDate Oct-8-09CalibrationDate # B 0.00000000e+000B # MX 1.00000000e+000MX # MY 0.00000000e+000MY # Units 0Units # ScaleFactor 1.60000000e+000ScaleFactor # Offset 0.00000000e+000Offset # FluoroTurnerSCUFA_Sensor # sensor # sensor Channel="13" # !-- A/D voltage 7, Free -- # sensor # sensor Channel="14" # !-- SPAR voltage, Unavailable -- # sensor # sensor Channel="15" # !-- SPAR voltage, SPAR/Surface Irradiance -- # SPAR_Sensor SensorID="51" # SerialNumber 20367SerialNumber # CalibrationDate 7-Jan-10CalibrationDate # ConversionFactor 1622.58000000ConversionFactor # RatioMultiplier 1.00000000RatioMultiplier # SPAR_Sensor # sensor # Sensors # datscnv_date = Oct 22 2010 11:27:31, 7.20g # datscnv_in = C:\Data2010\NGOMEXctdC2.hex C:\Data2010\NGOMEXctdC2.XMLCON # datscnv_ox_hysteresis_correction = yes # datscnv_ox_tau_correction = yes # datscnv_bottle_scan_range_source = scans marked with bottle confirm bit, 0, 2 # datscnv_scans_per_bottle = 49 # bottlesum_date = Dec 17 2010 15:21:31, 7.20f # bottlesum_in = D:\Data2010\NGOMEXPE11-06 RomanCTDcncvC2.ros D:\Data2010\NGOMEXPE11-06 RomanCTDcncvC2.XMLCON

Processing Description

BCO-DMO Processing Notes - Awk written to reformat original .btl files contributed by Jamie Pierson to BCO-DMO formatted records - AWK: NGOMEX_2010_CTDbtl_2_BCODMO.awk - Header data for CTD data generated from .btl files - space delimited reformatted to tab delimited - all records with "#" or "*" ignored - blank lines ignored - BCO-DMO header o/p from routine - O/P data with a set of parameters common to all the years of NGOMEX data - Some data values "nd" (not reported for that year)

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Project Information

NGOMEX - Living Marine Resources of the Northern Gulf of Mexico (GoMX - NGOMEX)

Coverage: Northern Gulf of Mexico, 28-30N 89-94W

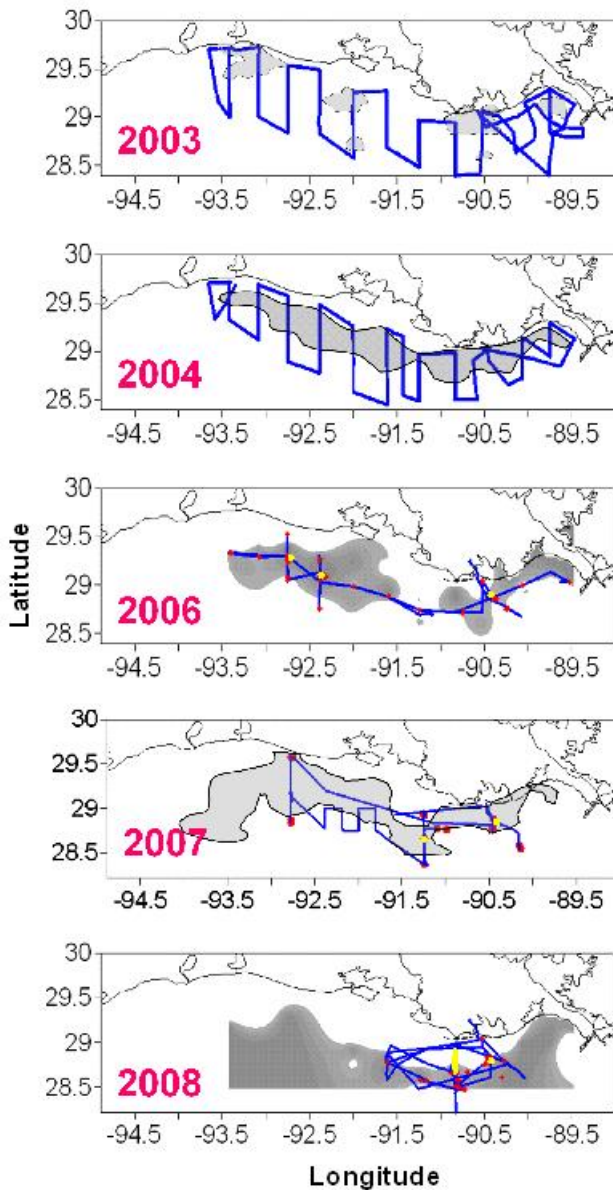
NGOMEX - Living Organisms of the Northern Gulf of Mexico

A synthesis of data collected in the Northern Gulf of Mexico from 2003-2004, 2006-2008 and 2010

Data include:

- CTD Profiles
- Rosette Samples
- MIDAS underway meteorological
- Towed SCANFISH
- Net Trawls
- Zooplankton counts

High-resolution mapping of the major ecosystem components of the NGOMEX by year



References:

Kimmel, D. G., W. C. Boicourt, J. J. Pierson, M. R. Roman, X. Zhang. 2010. The vertical distribution and diel variability of mesozooplankton biomass, abundance and size in response to hypoxia in the northern Gulf of Mexico USA. *Journal of Plankton Research* 32(8): 1185-1202. doi:10.1093/plankt/fbp136

Pierson, J. J., M. R. Roman, D. G. Kimmel, W. C. Boicourt, & X. Zhang. 2009. Quantifying changes in the vertical distribution of mesozooplankton in response to hypoxic bottom waters. *Journal of Experimental Marine Biology and Ecology* 381: S74-S79. doi.org/10.1016/j.jembe.2009.07.013

Kimmel, D. G., W. C. Boicourt, J. J. Pierson, M. R. Roman, & X. Zhang. 2009. A comparison of the mesozooplankton response to hypoxia in Chesapeake Bay and the northern Gulf of Mexico using the biomass size spectrum. *Journal of Experimental Marine Biology and Ecology* 381: S65-S73. doi.org/10.1016/j.jembe.2009.07.012

Zhang, H., S. A. Ludsins, D. M. Mason, A. T. Adamack, S. B. Brandt, X. Zhang, D. G. Kimmel, M. R. Roman, & W. C. Boicourt. 2009. Hypoxia-driven changes in the behavior and spatial distribution of pelagic fish and mesozooplankton in the northern Gulf of Mexico. *Journal of Experimental Marine Biology and Ecology*. 381: S80-91. <http://dx.doi.org/10.1016/j.jembe.2009.07.014>

Program Information

Gulf of Mexico - Deepwater Horizon Oil Spill (GoMX - DHOS)

Coverage: Northern Gulf of Mexico

Grants for Rapid Response Research (RAPID)

The RAPID funding mechanism is used for proposals having a severe urgency with regard to availability of, or access to data, facilities or specialized equipment, including quick-response research on natural or anthropogenic disasters and similar unanticipated events.

GOM - Broader Impacts

The need to understand the impact of this largest oil spill to date on ecosystems and biochemical cycling is self evident. The consequences of the disaster and accompanying clean up measures (e.g. the distribution of dispersants) need to be evaluated to guide further mediating measures and to develop and improve responses to similar disasters in the future. Would it be advantageous if such oil aggregates sink, or should it rather remain suspended? Possibly measures can be developed to enhance sinking or suspension (e.g. addition of ballast minerals) once we understand their current formation and fate. Understanding the particle dynamics following the input of large amounts of oil and dispersants into the water is a prerequisite to develop response strategies for now and in the future.

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Funding

Funding Source	Award
NSF Division of Ocean Sciences (NSF OCE)	OCE-1043261
NSF Division of Ocean Sciences (NSF OCE)	OCE-1043248
NSF Division of Ocean Sciences (NSF OCE)	OCE-1043249

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