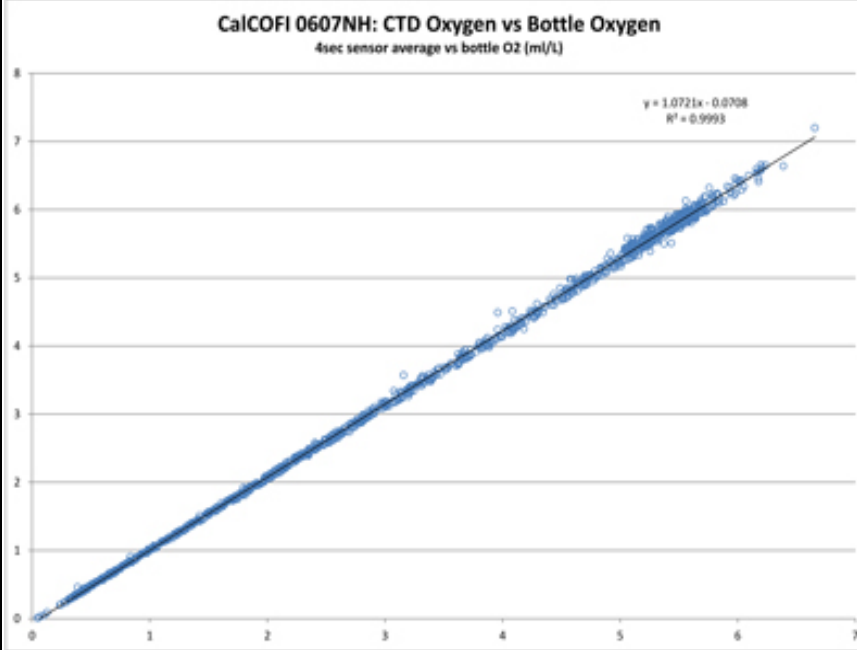
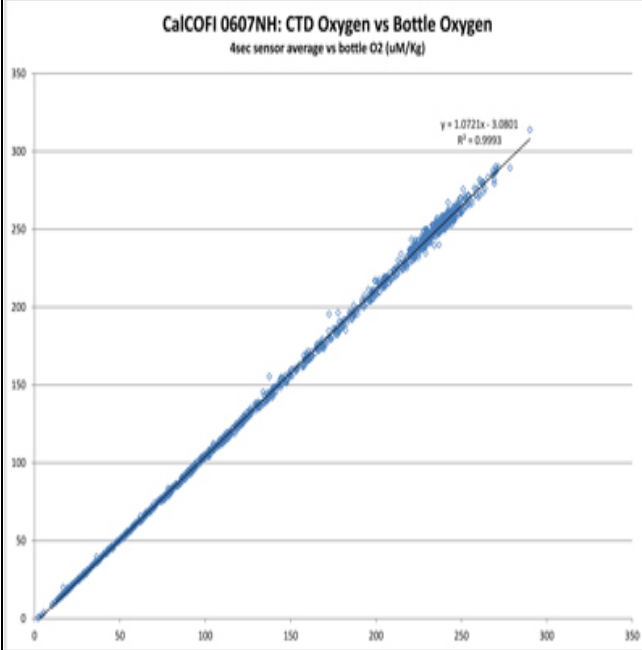


0607NH CTD Processing Summary

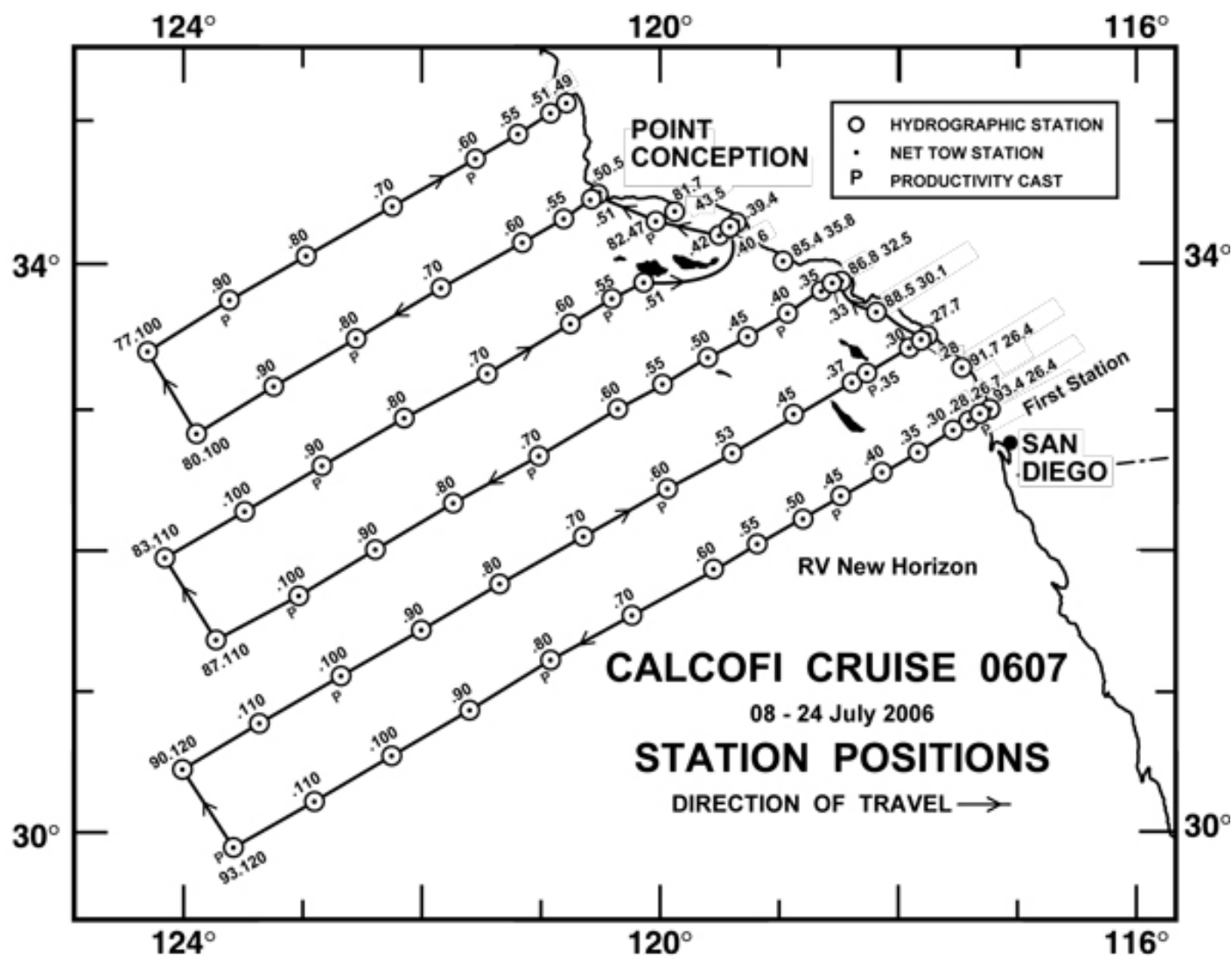
Parent Category: Older Cruises (</cruises/older-cruises.html>)

Category: 2006 Cruises (</cruises/older-cruises/184-2006-cruises.html>)

 Last Updated: 30 January 2019

CTD Processing Summary CalCOFI 0607NH CTD Final Data (reprocessed/reformatted 01/2019)		
Download 0607NH CTD raw cast files zipped (http://cappuccino.ucsd.edu/downloads/2006/20-0607NH_CTDCast.zip)		Download 0607NH FinalQC CTD + bottle data (http://cappuccino.ucsd.edu/downloads/2006/20-0607NH_CTDFinalQC.zip)
General CTD Notes - data acquisition cast notes, logistics, processing notes are listed below		
CTD sensor corrections derived by comparing 4 secs of CTD sensor data (prior to bottle closure) to bottle samples		
Dual T & S	Primary Sensor	Secondary Sensor
Temperature, dual SBE3	No offset or correction	No offset or correction
Salinity offset (bottle - CTD salinity; > 350m only; Seabird SBE4; fliers excluded)	-0.0019	0.0002
Single sensors - note only one CTD O2 sensor	ml/L	uM/Kg
Oxygen (ml/L & uM/Kg; single Seabird SBE43)	$y = 1.0721x - 0.0708$ $R^2 = 0.9993$	$y = 1.0721x - 3.0801$ $R^2 = 0.9993$
No Satlantic MBARI-ISUS (SN#111 v2) deployed	$y =$ $R^2 =$	
Seapoint Fluorometer - linear & polynomial regressions	$y = 3.8487x - 0.1484$ $R^2 = 0.7709$	$y = 0.8624x^2 + 2.8827x - 0.0548$ $R^2 = 0.7805$
		
http://cappuccino.ucsd.edu/downloads/2006/0607NH/0607NH_Ox1MLvsOxBML.jpg		http://cappuccino.ucsd.edu/downloads/2006/0607NH/0607NH_Ox1UMvsOxBUM.jpg

General notes: Station Pattern & Cruise Track



CalCOFI 0607NH • 08 - 24 Jul 2006 • SIO RV New Horizon • San Diego to San Diego

Cruise and CTD Data Processing Notes

CalCOFI 0607NH on SIO RV New Horizon successfully occupied 74 of 75 scheduled stations. One SCCOOS station, 85.4 35.8 (Pt Dume) was not occupied due to limited ship time. Acoustic calibration was not performed in San Diego Bay so day 1's primary productivity experiment was performed on the 1st station 93.3 26.7..

Seabird 911+ configuration:

Primary Temperature (#1324), Conductivity (#2206), and O2 sensor (#680), pumped (#55060); Secondary Temperature (#1049), Conductivity (#722) pumped (#52236); Wetlabs (CST-490DR) 25cm transmissometer (mislabeled Chelsea/Seatech in con; new M & B calculated during 2019 reprocessing); Seapoint chlorophyll fluorometer (SCF2483 @10x); Benthos/Datasonics Altimeter (#46604); ~~MBARI-ISUS v2 (#111)~~ ISUS NOT deployed this cruise (on Process cruise); remote PAR (#4544), surface PAR (SN 6369).

(Freq0=T0; Freq1=C0; Freq2=Pr; Freq3=T1; Freq4=C1; V0=Trans; V1=Fl; V2=ISUS; V3=open; V4=O21; V5=open; V6=Altimeter; V7-Remote PAR)

Voltage	Sensor
V0	Trans
V1	Fluor
V2	
V3	
V4	O2
V5	
V6	Altimeter
V7	Remote PAR

CalCOFI 0607NH CTD Data Processing & Console Ops Notes

Removed salt fliers on both primary & secondary comparisons.

A deep CTD casts to 770m was performed at sta 86.7 40.0 Cast 036 Santa Monica Basin this cruise. All 24 10L bottles were tripped, seawater samples collected for regular analysis.

Only one O2 sensor was deployed and a SBE11v1 Deck Unit - requiring Align-CTD offset of secondary conductivity (0.073sec) was used.

General Notes: We started data acquisition on deck BEFORE deploying and 10m soak. It is necessary to run Loopedit to remove the noisy data from 0-10m "2-minute" soak before returning back to surface.

Some shallow casts (003, 032, 055) were not loopedited since it eliminated too much data. These casts were manually scanned for the appropriate number of scans to skip then binavg.

Cast 003 - 19080 scans were skipped when binavg, no loopedit

Cast 032 - 13058 scans were skipped when binavg, no loopedit

Cast 055 - 11790 scans were skipped when binavg, no loopedit

CTD Setup:

Transmissometer important note:

V0 - Tr (CST490DR), new M & B were calculated from the min/max voltages in air from 13 deck tests.

Min voltage = 0.0562, Max voltage changed but highest (Deck071) was 4.7741

Deck 001: 0.0574, 4.6801

Deck 007: 0.0562, 4.7314

Deck 016: 0.0562, 4.3993

Deck 019: 0.0586, 4.7558

Deck 023: 0.0562, 3.9414

Deck 027: 0.0562, 2.6606

Deck 033: 0.0562, 4.6410

Deck 047: 0.0562, 4.1905

Deck 051: 0.0562, 4.6532

Deck 057: 0.0574, 4.1819

Deck 063: 0.0574, 4.7375

Deck 067: 0.0574, 4.6484

Deck 071: 0.0562, 4.7741

M using 4.7741 & 0.0562 = 19.3598048

B = -1.08802103

M & B in the individual .con files were from last cruise so a new .con file (0607_AllCastNewTrMB.xmlcon) was used on all stations since no sensors were changed during the cruise.

V1 - Seapoint Fluorometer set at 10x

V2 - open

V3 - open

V4 - SBE43 Oxygen Sensor (only one deployed pre-2009)

V5 - open

V6 - Benthos/Datasonic Altimeter

V7 - PAR

V15 - SPAR

Sensors: T1 - SN1324; T2 - SN1049; C1 - SN2206; C2 - SN722; O2 - SN680; PAR - 4544; SPAR - SN6369

Quality Coded Casts:

Cast 065U - O2 data from 10-20m quality coded 9, due to dropout or biofouling

No ISUS this cruise so very few quality codes were needed.

JRW 01/30/2019