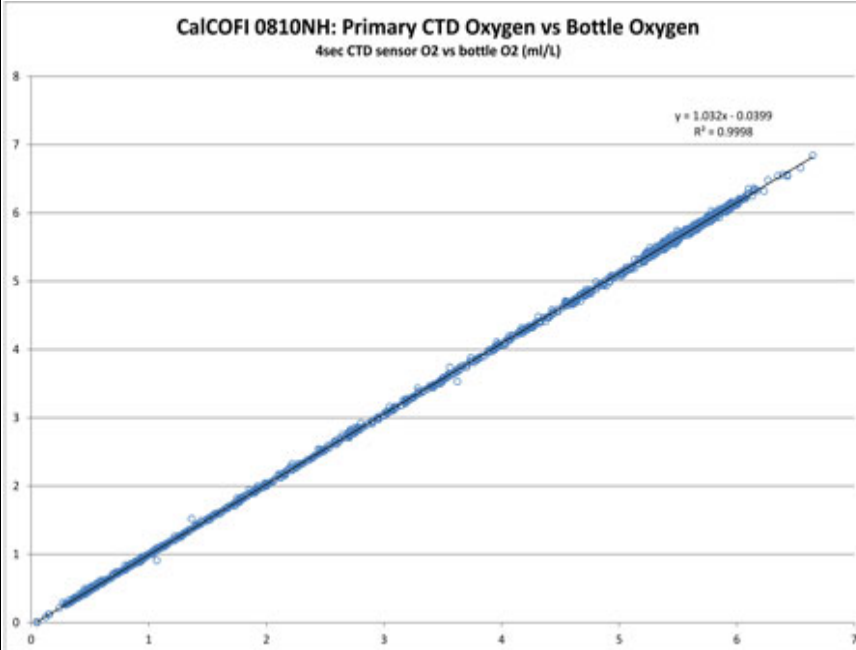
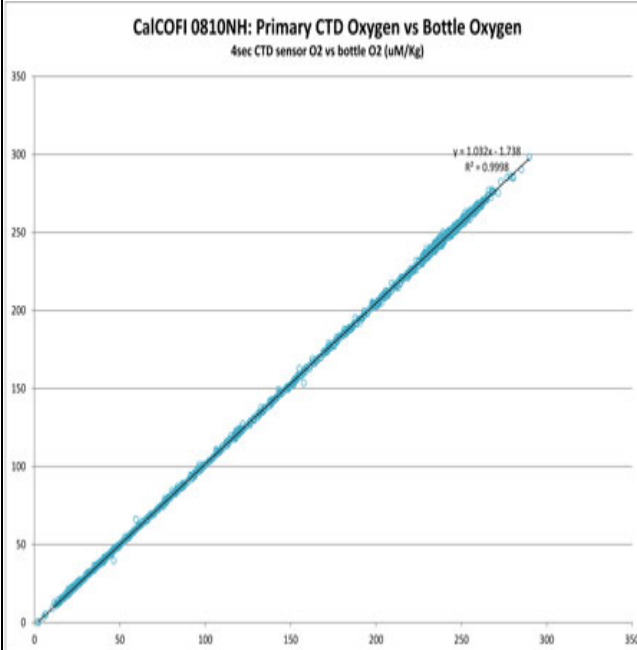


0810NH CTD Processing Summary

Parent Category: 2008 Cruises (/cruises/older-cruises/2008.html)

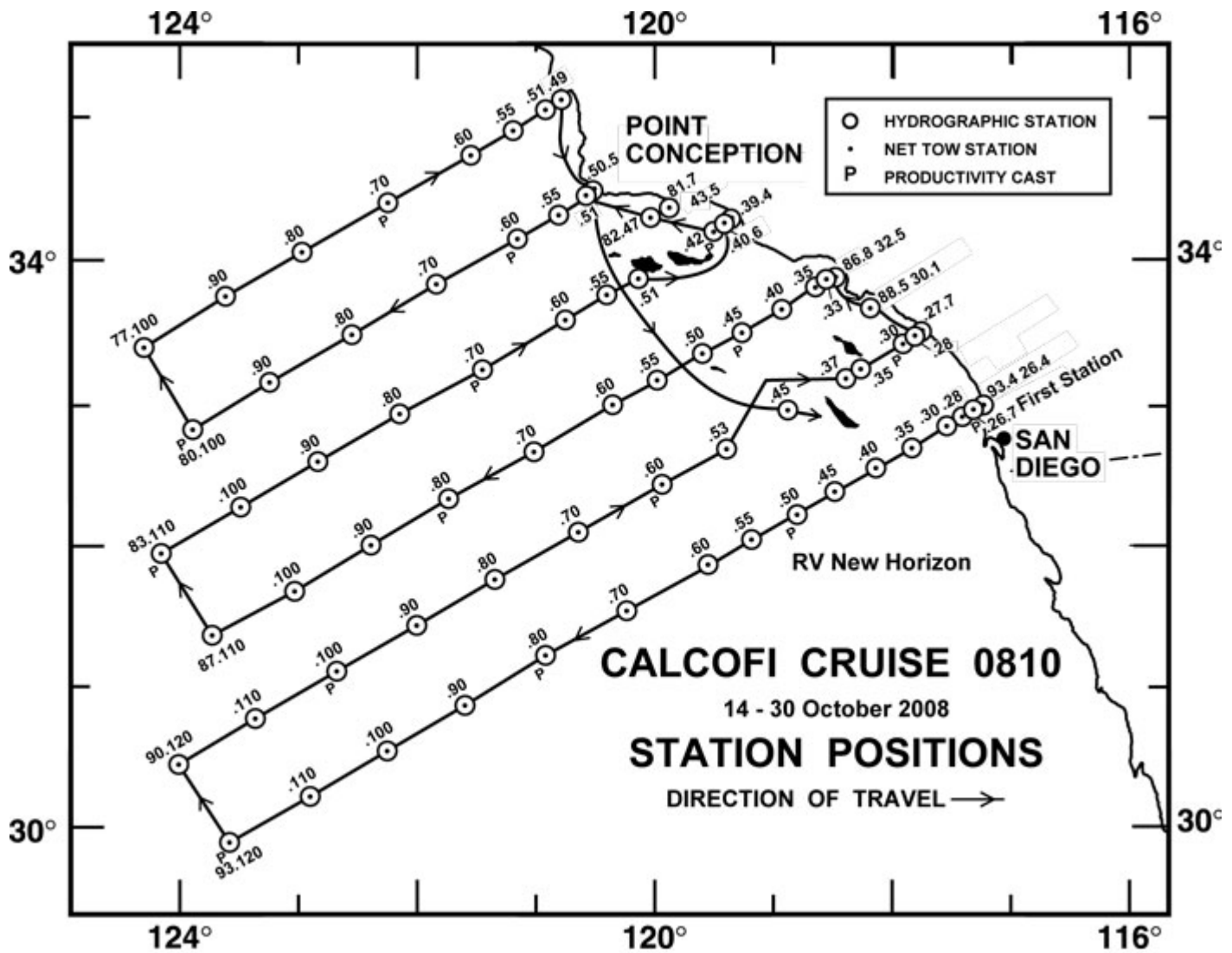
Category: CalCOFI 0810NH (/cruises/older-cruises/2008/232-calcofi-0810nh.html)

Last Updated: 22 August 2018

CTD Processing Summary CalCOFI 0810NH CTD Final Data (reprocessed/reformatted 08/2018)		
Download 0810NH CTD raw cast files zipped (http://cappuccino.ucsd.edu/downloads/2008/20-0810NH_CTDCast.zip)		Download 0810NH FinalQC CTD + bottle data (http://cappuccino.ucsd.edu/downloads/2008/20-0810NH_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)	0.0003	-0.0188
Single sensors - note only one CTD O2 sensor	ml/L	uM/Kg
Oxygen (ml/L & uM/Kg; single Seabird SBE43)	$y = 1.032x - 0.0399$ $R^2 = 0.9998$	$y = 1.032x - 1.738$ $R^2 = 0.9998$
Nitrate - Satlantic MBARI-ISUS NOT DEPLOYED		
Seapoint Fluorometer - linear & polynomial regressions	$y = 2.8838x - 0.0324$ $R^2 = 0.6624$	$y = -1.1389x^2 + 3.5839x - 0.0805$ $R^2 = 0.6712$
		
(http://cappuccino.ucsd.edu/downloads/200/0810NH/0810NH_Ox1MLvsOxBML.jpg)		(http://cappuccino.ucsd.edu/downloads/2008/0810NH/0810NH_Ox1UMvsOxBUM.jpg)

(http://cappuccino.ucsd.edu/downloads/2008/0810NH/0810NH_FIVvsChla.jpg)

General notes: Station Pattern & Cruise Track



CalCOFI 00810NH • 14 - 30 Oct 2008 • SIO RV New Horizon • San Diego to San Diego

Cruise and CTD Data Processing Notes

CalCOFI 0810NH on SIO RV New Horizon successfully occupied 73 of 75 scheduled stations. Two SCCOOS stations, 91.7 26.4 (Camp Pendleton) & 88.5 30.1 (Pt. Dume), were missed so sta 90.0 45.0 could be occupied on the way home to San Diego. Naval operations earlier in the cruise prohibited occupying the station in scheduled order.

Seabird 911+ configuration:

Primary Temperature (#1324), Conductivity (#042206), and O2 sensor (#430680), pumped (#55060); Secondary Temperature (#2533), Conductivity (#357) pumped (#52236); Wetlabs (CST-479DR) 25cm transmissometer (mislabelled Chelsea/Seatech in con); Seapoint chlorophyll fluorometer (SCF2483 @10x); Benthos/Datasonics Altimeter (#46604); MBARI-ISUS v2 (#111); no surface PAR was installed.

(Freq0=T0; Freq1=C0; Freq2=Pr; Freq3=T1; Freq4=C1; V0=Trans; V1=Fl; V2=Alt; V3=PAR; V4=O2; V5=open; V6=open; V7=open)

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

Logistics:

We completed (all) 66 standard stations and 7 of 9 SCCOOS stations before transiting home to offload in San Diego.

CalCOFI 0810NH CTD Data Processing & Console Ops Notes

Removed salt fliers on both primary & secondary comparisons.

No deep CTD casts (>515m) were performed this cruise

Only one O2 sensor was deployed, no ISUS, no Surface PAR, no pH. These were purchased in mid-2009 and first deployed on CalCOFI 0907M2 when a new 911+ system was bought.

V2 Deck unit was also purchased at that time so this cruise was on v1 Deck Unit - requiring Align-CTD offset of secondary conductivity (0.073sec).

Cast notes:

Original hdr files requiring correction - all listed issues have been corrected in processed data and raw cast files:

Casts 008, 012, 016, 019 : cast type labeled "PROTO" instead of "PRODO"

Cast 014: mislabeled cast 13, sta 93.3 10 instead of 93.3 100.0

Cast 018: mislabeled cast 017

Cast 042: mislabeled cast 041

Cast 060: mislabeled sta 80.0 760.0, should be 80.0 70.0

Cast 065 upcast: Oxygen data from 68-74m look pretty questionable, flagged "8"

Cast 067 upcast: the upcast data acquisition was stopped at 100m then restarted resulting in two cast files. These were processed separately then asc files were combined before merging with bottle data.

JRW 08/06/2018