CalCOFI Database Tables Description - Bottle Table

Column Header	Units	Description
Cst_Cnt	n.a.	Auto-numbered Cast Count - all casts consecutively numbered. 1 is first station done
Btl_Cnt	n.a	Auto-numbered Bottle count- all bottles ever sampled, consecutively numbered
Sta_ID	Text	CalCOFI Line and Station
Depth_ID	n.a.	[Century]-[YY][MM][ShipCode]-[CastType][Julian Day]-[CastTime]-[Line][Sta][Depth][Bottle]-[Rec_Ind]
Depthm	meters	Depth in meters
T_degC	Degrees C	Temperature of Water
Salnty	Practical Salinity Scale, 1978 (UNESCO, 1981a)	Salinity of water
O2ml_L	Oxygen in mL/L	Milliliters of dissolved oxygen per Liter seawater
STheta	n.a.	Potential Density of Water
02Sat	Percent Saturation	Oxygen Saturation
Oxy_umol/kg	µmol/Kg	Oxygen in micro moles per kilogram of seawater
BtlNum	n.a.	Bottle Number
RecInd	n.a.	Record Indicator
T_prec	n.a.	Temperature Units of Precision
T_qual	n.a.	Temperature Quality Code
S_prec	n.a	Salinity Units of Precision
S_qual	n.a	Salinity Quality Code
P_qual	n.a.	Pressure Quality Code
O_qual	n.a.	Oxygen Quality Code
SThatq	n.a.	Sigma Theta Quality Code
O2Satq	n.a.	Oxygen Saturation Quality Code
ChlorA	µg/L	Acetone extracted chlorophyll-a measured fluorometrically
Chlqua	n.a.	Chlorophyll-a Quality Code
Phaeop	µg/L	Phaeophytin concentration measured fluorometrically
Phaqua	n.a.	Phaeophytin Quality Code
PO4µM	micro Moles per Liter	Phosphate concentration
PO4q	n.a.	Phosphate Quality Code
SiO3µM	micro Moles per Liter	Silicate concentration
SiO3qu	n.a.	Silicate Quality Code
NO2µM	micro Moles per Liter	Nitrite concentration
NO2q	n.a.	Nitrite Quality Code
NO3µM	micro Moles per Liter	Nitrate concentration
NO3q	n.a.	Nitrate Quality Code
NH3µM	micro Moles per Liter	Ammonium concentration
NH3q	n.a.	Ammonium Quality Code
C14As1	milligrams Carbon per cubic meter	14C Assimilation of replicate 1

C14A1p	n.a.	14C Assimilation of replicate 1 precision
C14A1q	n.a.	14C As1 Quality Code
C14As2	n.a.	14C Assimilation of replicate 2
C14A2p	n.a.	14C Assimilation of replicate 2 precision
C14A2q	n.a.	14C As2 Quality Code
DarkAs	milligrams Carbon per cubic meter	14C Assimilation Dark Bottle
DarkAp	n.a.	14C Assimilation Dark Bottle precision
DarkAq	n.a.	14C Assimilation Dark Bottle Quality Code
MeanAs	milligrams Caron per cubic meter	Mean 14C Assimilation of Bottle 1 and 2
MeanAp	n.a.	Mean 14C Assimilation of Bottle 1 and 2 precision
MeanAq	n.a.	Mean 14C Assimilation Quality Code
IncTim	n.a.	Incubation time
LightP	percent	Light intensities expressed as a percentage
R_Depth	Meters	Reported Depth in Meters
R_TEMP	Deg C	Reported Temperature
R_POTEMP	Deg C	Reported Potential Temperature
R_SALINITY	Practical Salinity Scale, 1978 (UNESCO, 1981a)	Reported Salinity
R_SIGMA	n.a.	Reported Potential Density of water
R_SVA	n.a.	Reported Specific Volume Anomaly
R_DYNHT	Dynamic Meters	Reported Dynamic Height
R_02	Oxygen in mL/L	Reported milliliters of oxygen per liter of seawater
R_O2Sat	Percent	Reported Oxygen Saturation
R_SIO3	micro Moles per Liter	Reported Silicate Concentration
R_PO4	micro Moles per Liter	Reported Phosphate Concentration
R_NO3	micro Moles per Liter	Reported Nitrate Concentration
R_NO2	micro Moles per Liter	Reported Nitrite Concentration
R_NH4	micro Moles per Liter	Reported Ammonium Concentration
R_CHLA	micrograms per Liter	Reported Chlorophyll-a
R_PHAEO	micrograms per Liter	Reported Phaeophytin
R_PRES	decibars	Pressure in decibars
R_SAMP	n.a.	Sample number
R_Oxy_µmol/kg	µmol/Kg	Reported Oxygen in micro moles per kilogram of seawater
DIC1	µmol/Kg	Replicate 1 - Dissolved Inorganic Carbon in micro moles per kilogram of seawater
DIC2	µmol/Kg	Replicate 2 - Dissolved Inorganic Carbon in micro moles per kilogram of seawater
TA1	µmol/Kg	Replicate 1 - Total Alkalinity in micro moles per kilogram of seawater
TA2	µmol/Kg	Replicate 2 - Total Alkalinity in micro moles per kilogram of seawater
DIC Quality (Comments)	n.a.	Quality Comments associated with DIC sampling, drawing and analysis

Data_Type - Data Type: found in the Cast Table or csv.

"PR" - Productivity Cast
"HY" - Hydrographic Cast
"10" - Ten-meter Cast
"CT" - Compressed CTD Cast (Low Resolution)
"MX" - Mixed CTD and Bottle Data

_qual, qua or **q** - Quality Code: found in the Bottle Table or csv. Associated with discreet samples ("O_qual", "Chlqua", "PO4q").

 Blank - Data OK
"4" - Zeroed due to value below detection limit
"6" - Data taken from CTD device
"8" - Originator thinks value is suspect
"9" - Missing Data

RecInd - Record Indicator: found in the Bottle Table or csv.

"3" - Observed Data
"4" - Educated office guess (ghost)
"5" - Data from STD or CTD device
"6" - Duplicate Depth
"7" - Interpolated to a standard depth