

Welcome to the new CalCOFI website! Some content is still under construction. Please [email us \(mailto:calcofi-team@ucsd.edu\)](mailto:calcofi-team@ucsd.edu) about any feedback or problems you may have, or visit our [previous website \(https://calcofi.com/\)](https://calcofi.com/).



CalCOFI

<https://calcofi.org>

California Cooperative Oceanic Fisheries Investigations



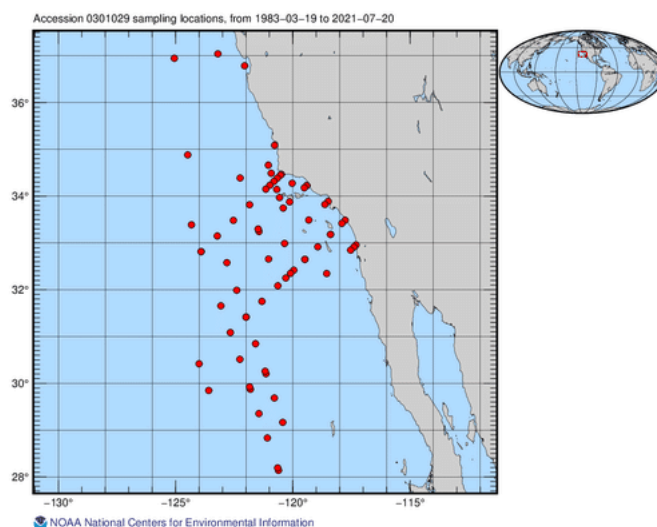
CalCOFI collects samples for inorganic carbon and total alkalinity at specific stations throughout the cruise track. Seawater samples are collected from several depths, preserved and brought back to SIO for total inorganic carbon and total alkalinity analysis. These measurements allow the calculation of pH and pCO₂. The objectives of these measurements are: first, the long-term characterization of the inorganic carbon system and its response to changing ocean climate, and second, measurements of pH in the coastal zone in order to monitor the anthropogenic impact on coastal ecosystems in the Southern California Bight.

DIC samples for Dave Keeling were also collected on CalCOFI stations 90.70, 90.90, & 90.120 from Sep 1986 (CalCOFI 8609NH) to Nov 2002 (CalCOFI 0211NH). In Aug 2008, DIC sampling restarted on 7 stations, grew to 10 stations in Jan 2011, and currently DIC has expanded substantially (see map & table below). Dissolved inorganic carbon (DIC) and total alkalinity (TA) data have only been integrated into the CalCOFI hydrographic dataset since Aug 2008, then Jan 2009 through presently. Similarly, pH data have only been integrated into the CalCOFI hydrographic dataset since April 2014.

Dissolved Inorganic Carbon & Total Alkalinity Data CSV's

1983 – 2021

[Download Here
\(https://www.ncel.noaa.gov/access/metadata/landing-page/bin/iso?id=gov.noaa.node:0301029\)](https://www.ncel.noaa.gov/access/metadata/landing-page/bin/iso?id=gov.noaa.node:0301029)



Station 90 90 Data

198402 – 202107

[Download Here
\(https://calcofi.org/downloads/DIC_Tod_pacer/20230803\)](https://calcofi.org/downloads/DIC_Tod_pacer/20230803)

DIC CSV Column Headers

[Download as CSV](https://calcofi.org/downloads/DIC_headers.csv)
(https://calcofi.org/downloads/DIC_headers.csv)

CSV COLUMN HEADER	DESCRIPTION
Cast_Index	CalCOFI Hydrographic Database Cast Table Index; 1 = CalCOFI database's 1st cast record
Bottle_Index	CalCOFI Hydrographic Database Bottle Table Index; 1 = CalCOFI database's 1st bottle record
Cruise	CalCOFI Cruise Designation with century prefix; CalCOFI 0901 = 200901
Depth(m)	Sample Depth in meters
Line.Sta_ID	CalCOFI Line & Station ID; Sta 80.55 = 080.0 055.0
Depth_ID	Unique database index built from:Century-CruiseShip-Casttype-Julian DOY-UTC Time-LineSta-DepthDup-Record Indicator
DIC 1	DIC Analysis - Dissolved Inorganic Carbon Measurement, first sample
DIC 2	DIC Analysis - Dissolved Inorganic Carbon Measurement from a duplicate sample drawn from same depth as DIC 1
TA 1	DIC Analysis - Total Alkalinity Measurement, first sample; same DIC bottle as DIC 1
TA 2	DIC Analysis - Total Alkalinity Measurement from a duplicate sample drawn from same depth as TA 1
pH 1	Spectrophotometrically measured pH per kilogram seawater
pH 2	Spectrophotometrically measured pH per kilogram seawater from a duplicate sample drawn from same depth as pH 1
Salinity 1	DIC Analysis - Salinity value from DIC 1 bottle
Salinity 2	DIC Analysis - Salinity value from DIC 2 bottle
Temperature_degC	CTD Temperature from Bottle Sample Depth
Bottle Salinity	CalCOFI Salinity Measurement from DIC Depth
Bottle O2(ml_L)	CalCOFI Oxygen Measurement in milliliters/liter, from DIC Depth
Bottle O2(æmol/Kg)	CalCOFI Oxygen Measurement in umoles/Kg, from DIC Depth
Sigma-theta	Sigma-theta Density calculated from CalCOFI data
DIC Bottle_ID1	DIC 1 Bottle Index Number
DIC Bottle_ID2	DIC 2 Bottle Index Number
DIC Quality Comment	Quality Control Comments on DIC samples after processing



DIC Sampling Depths by Station (used since 2014)

Download as CSV
(https://calcofi.org/downloads/DIC_stations.csv)

LINE.STA	0	15	30	41	50	100	170	250	320	500	SAMPLES
093.3 028.0	X		X								2
093.3 030.0	X		X		X	X	X	X	X	X	8
090.0 120.0	X		X								2
090.0 090.0	XX		X		X	X	X	X	X	XX	10
090.0 060.0	XX		X		X	X	X	X	X	XX	10
090.0 053.0	XX		X		X	X	X	X	X	XX	10
090.0 045.0	X		X								2
090.0 037.0	X		X								2
090.0 030.0	X		X		X	X	X	X	X	X	8
090.0 028.0	X		X								2
086.7 033.0	X		X								2
086.7 035.0	X		X		X	X	X	X	X	X	8
083.3 042.0	X		X								2
083.3 040.6	XX		X								3
081.8 046.9 (SBB)	X		X		X	X	X	X	X	X	8
080.0 051.0	X		X		X	X					4
080.0 055.0 (CCE 2)	X	X	X		X	X	X	X	X	X	9
080.0 060.0	X		X		X	X	X	X	X	X	8
080.0 070.0	X		X		X	X	X	X	X	X	8
080.0 080.0 (CCE 1)	X		X	X	X	X	X	X	X	X	9
080.0 090.0	X		X		X	X	X	X	X	X	8
080.0 100.0	XX		X		X	X	X	X	X	XX	10
Deep Station										XX @ 3500	2



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(<https://app.e2ma.net/app2/audience/signup/199113>)

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- > Publications (<https://calcofi.org/publications/>)

FOR RESEARCHERS

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- > Bottle Database (<https://calcofi.org/data/oceanographic-data/bottle-database/>)
- > Fisheries Data (<https://calcofi.org/data/marine-ecosystem-data/zooplankton/>)
- > CTD Cast Files (<https://calcofi.org/data/oceanographic-data/ctd-cast-files/>)
- > Underway Data (<https://calcofi.org/data/oceanographic-data/underway/>)
- > Sampling Methods (<https://calcofi.org/sampling-info/methods/>)

CONTACT US

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