## **CalCOFI Seawater Sampling**

Rosette seawater sampling varies during the cruise but standard samples (Salts, O2s, Chls) are drawn on every station. Nutrient samples are taken on all 75 stations on Lines 93.3 through 76.7

24-10L bottles are available but traditionally ~20 bottles are closed during a 515m cast, depth-permitting.

Sampling depths in the upper 200m vary (3 types) based on the depth of the fluorescence (chl-a) max & mixed layer

Additional bottles may be closed for daily primary productivity incubation experiments, NCOGs, DICs, CCE-LTER sampling or any measurement that requires additional water. In addition to the specific stas marked, NCOG samples are taken on every prodo station.

On lines N of Line 76.7, seawater sampling is reduced to 12-10L bottles on 515m casts since analytical personnel are reduced.

On stations with bottom depths less than ~525m, the terminal depth is ~10m from bottom so number of bottles closed varies.

Order	CalCOFI	CalCOFI					NCOG		Aprox	
Occupied	Line	Sta	Salinity	Oxygen	Nutrients	Chloro	+daily prod	DIC/pH	Bottom	Comments:
1	93.3	26.7	Χ	Χ	Χ	Χ			63	
2	93.4	26.4	Χ	Χ	Χ	Χ			20	SCCOOS 20m Isobath sta
3	91.7	26.4	Χ	Χ	Χ	Χ			20	SCCOOS lat/lon approx
4	93.3	28.0	Χ	Χ	Χ	Χ		2	609	
5	93.3	30.0	Χ	Χ	Χ	Х		Χ	846	
6	93.3	35.0	Χ	Χ	Χ	Χ			616	
7	93.3	40.0	Χ	Χ	Χ	Χ			1627	
8	93.3	45.0	Χ	Χ	Χ	Χ		1	1376	
9	93.3	50.0	Χ	Χ	Χ	Χ			1452	
10	93.3	55.0	Χ	Χ	Χ	Χ			1588	
11	93.3	60.0	Χ	Χ	Χ	Χ			1899	
12	93.3	70.0	Χ	Χ	Χ	Χ			3931	
13	93.3	80.0	Χ	Χ	Χ	Χ			3848	
14	93.3	90.0	Χ	Χ	Χ	Χ		1	4109	
15	93.3	100.0	Χ	Χ	Χ	Χ			4132	
16	93.3	110.0	Χ	Χ	Χ	Χ			3868	
17	93.3	120.0	Х	Х	Χ	Χ	Х	3	4061	
18	90.0	120.0	Χ	Χ	Χ	Χ			4141	
19	90.0	110.0	Χ	Χ	Χ	Χ			4017	
20	90.0	100.0	Χ	Χ	Χ	Х		·	3997	
21	90.0	90.0	Х	Х	Х	Х	Х	Х	3879	

22	90.0	80.0	Х	Χ	Х	Х		1	3694	
23	90.0	70.0	Х	Х	Х	Х	Х		3806	
24	90.0	60.0	Х	Х	Х	Х		Х	880	
25	90.0	53.0	Х	Х	Х	Х	Х	Х	1309	
26	90.0	45.0	Х	Х	Х	Х		2	1695	
27	90.0	37.0	Х	Х	Х	Х	Х	2	1177	
28	90.0	35.0	Х	Х	Х	Х			344	
29	90.0	30.0	Х	Х	Х	Х		Х	613	
30	90.0	28.0	Х	Х	Х	Х		2	63	
31	90.0	27.7	Х	Χ	Х	Х			20	SCCOOS 20m sta
32	88.5	30.1	Х	Χ	Х	Х			20	SCCOOS lat/lon approx
33	86.8	32.5	Х	Χ	Х	Х			20	SCCOOS 20m
34	86.7	33.0	Х	Χ	Х	Х		2	57	
35	85.4	35.8	Х	Χ	Х	Х			20	SCCOOS 20m
36	86.7	35.0	Х	Χ	Х	Х	Х		662	
37	86.7	40.0	Х	Х	Х	Х			737	Santa Monica Basin 700m
38	86.7	45.0	Х	Χ	Х	Х			1644	
39	86.7	50.0	Х	Χ	Х	Х			78	
40	86.7	55.0	Х	Χ	Χ	Х			1201	
41	86.7	60.0	Х	Χ	Χ	Х			722	
42	86.7	70.0	Х	Χ	Χ	Х			3771	
43	86.7	80.0	Х	Χ	Χ	Х			4041	
44	86.7	90.0	Х	Χ	Χ	Х		1	4099	
45	86.7	100.0	Χ	Χ	Χ	Χ			4147	
46	86.7	110.0	Х	Χ	Χ	Х			3951	
47	83.3	110.0	Х	Х	Х	Х			4163	
48	83.3	100.0	Х	Χ	Х	Х			4145	
49	83.3	90.0	Х	Χ	Х	Х		1	4247	
50	83.3	80.0	Х	Χ	Х	Х			4180	
51	83.3	70.0	Х	Х	Х	Х			3797	
52	83.3	60.0	Х	Χ	Х	Х			1397	
53	83.3	55.0	Х	Χ	Х	Х			999	
54	83.3	51.0	Х	Χ	Х	Х			102	
55	83.3	42.0	Х	Χ	Х	Х		2	134	

56	83.3	40.6	Х	Х	Х	Х		2	34	
57	83.3	39.4	Х	Χ	Χ	Х			20	SCCOOS 20m sta
58	81.7	43.5	Х	Χ	Χ	Х			20	SCCOOS lat/lon approx
59	81.8	46.9	Х	Χ	Χ	Х	Χ	Χ	578	Santa Barbara Basin 570m
60	80.0	50.5	Х	Х	Χ	Х			20	SCCOOS 20m
61	80.0	51.0	Х	Χ	Χ	Χ		Χ	73	
62	80.0	55.0	Х	Χ	Χ	Х	Χ	Χ	780	
63	80.0	60.0	Х	Х	Χ	Χ		Χ	2204	
64	80.0	70.0	Х	Χ	Χ	Х	Χ	Χ	3631	
65	80.0	80.0	Х	Χ	Χ	Χ	Χ	Χ	4007	
66	80.0	90.0	Х	Х	Χ	Χ	Χ	Χ	4229	
67	80.0	100.0	Х	Χ	Χ	Х	Χ	Χ	4348	
68	76.7	100.0	Х	Χ	Χ	Χ		1	4551	
69	76.7	90.0	Х	Х	Χ	Χ			4201	
70	76.7	80.0	Х	Х	Χ	Х			4235	
71	76.7	70.0	Х	Х	Χ	Χ			4017	
72	76.7	60.0	Х	Х	Χ	Χ			930	
73	76.7	55.0	Х	Х	Χ	Χ			562	
74	76.7	51.0	Х	Χ	Χ	Х			240	
75	76.7	49.0	Х	Χ	Χ	Χ		1	69	
12-bottle C	TD, 2-3 che	eck salts, 1	2 oxygens, 8	<b>chlorophyl</b>	ls, no nutrie	ents, no NC	OG or DIC/pH			
76	73.3	50.0	2	Χ		Χ			30	
77	73.3	55.0	2	Χ		Χ			1003	
78	73.3	60.0	2	Χ		Χ			2380	
79	73.3	70.0	2	Χ		Χ			4072	
80	73.3	80.0	2	Χ		Χ			4164	
81	73.3	90.0	2	Χ		Χ			3186	
82	70.0	90.0	2	Χ		Х				
83	70.0	80.0	2	Χ		Х			4078	
84	70.0	70.0	2	Х		Х			3845	
85	70.0	60.0	2	Χ		Х			3071	
86	70.0	55.0	2	Χ		Х			1304	
87	70.0	51.0	2	Х		Х				
88	66.7	50.0	2	Χ		Х			1006	

89	66.7	55.0	2	Х	X	2613
90	66.7	60.0	2	Х	X	2954
91	66.7	70.0	2	Х	X	3581
92	66.7	80.0	2	Х	X	3964
93	66.7	90.0	2	Х	X	
94	63.3	90.0	2	Χ	X	
95	63.3	80.0	2	Χ	X	4153
96	63.3	70.0	2	Х	X	3890
97	63.3	60.0	2	Х	X	2566
98	63.3	55.0	2	Χ	X	301
99	63.3	52.0	2	Χ	X	89
100	60.0	53.0	2	Х	X	87
101	60.0	60.0	2	Χ	X	3298
102	60.0	70.0	2	Х	X	3999
103	60.0	80.0	2	Х	X	
104	60.0	90.0	2	Х	X	