

CalCOFI CTD-Rosette Sampling Depths

Niskin/Pylon Position #	Type I		Type II/III Mod		Type III Mod	
	Fluorescence Max	0 - 50 meters	Fluorescence Max	50 - 120 meters	Fluorescence Max	> 120 meters
1		515		515		515
2		440		440		440
3		380		380		380
4		320		320		320
5		270		270		270
6		230		230		230
7		200		200		195
8		170		170		175
9		140		140		160
10		120		125		150
11		100		112		140
12		85		100		130
13		70		87		120
14		60		75		110
15		50		62		100
16		40		50		80
17		30		40		60
18		20		25		40
19		10		10		20
20		0		0		0
		10 meter spacing between 0 - 70 meters		12 meter spacing between 50 - 125 meters		10 meter spacing between 100 - 160 meters

Sampling Depths:

Oxygens: Highlighted above (also the 12-bottle sampling depths)

ISLs: 500, 400, 300, 250, 200, 150, 125, 100, 75, 50, 30, 20, 10, 0

NCOG: 515, 170, Chl Max, 10 (3500 if sampled)

DIC: 500, 320, 250, 170, 100, 50, 30, 0

Special Circumstance Cast Notes:

SHALLOW STATIONS

Casts ~75 meters or less: Trip a near-surface bottle around 5 meters

STATION 80.0 55.0

Take an extra bottle at 15m (the mooring has sensors at that depth)

BASIN STATIONS

- CTD cast should be no closer to the bottom than 10 meters
- In addition to the usual 20 bottles, trip the following 4 extra bottles:
- Draw O2 samples from all the regular bottles AND bottles at/below 400 meters

Santa Barbara Basin (81.8 46.9)

- 10 meters above bottom of basin
- 15 meters above bottom of basin
- Halfway between 15 meters above the bottom and 515 meters
- 480 meters (between the 440 and 515 meter bottles)

Santa Monica Basin (86.7 40.0)

- 10 meters above bottom of basin (~780 meters)
- 15 meters above bottom of basin (~775 meters)
- 690 meters
- 600 meters

3500m Station (90.0 90.0)

- 3500 meters
- 3500 meters
- 3500 meters (if bottles are available)
- 650 meters (O2 min)

The first criteria for selecting Cast Type is depth of fluorescence maximum on CTD downcast. The second criteria is the depth of the mixed layer. If the fluorescence maximum is not decipherable, use mixed layer depth. If both criteria are ambiguous, use 10 meter spacing.