

GP-01-01  
R/V Great Pacific  
F

$$GMT = ADT + 8$$

$$1 \text{ fm} = 1.83 \text{ m} \approx 2 - 0.2$$

$$\text{Depth in m} \approx \text{Twice depth in fathoms minus } 1/10 \text{ the result.}$$

Assume messenger drops 100 m/min.  
Note: Niskin bottle 82"  $\approx$  2 m above conductivity cell!

Seacat SBE 19 S/N 2212  
Pressure sensor 178049-2212  
SBE 23 Dissolved Oxygen sensor S/N 230601  
WET Labs WETStar S/N WS3S-142

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Date	CTD cast no.	GMT	Latitude (°N)	Longitude (°W)	Bottom Depth (m)	Max wire out (m)	File Name	Data On (GMT)	Start Down (GMT)	At Depth (GMT)	At Surface (GMT)	D.O.	FL	Sal Bottle No	Chloro phyll	Sample Depth (m)	Sample Trip Time (GMT)	Autosal Sal	Seacat Press	Seacat Sal	Seacat Temp	Remarks
2001 17 Jul	001	2240	58	12.82	137	14.06	11.7	120	GP010100	2230	2234	2240	2242	✓	✓							IP2
18 Jul	002	0316	57	53.97	137	32.86	600	228	GP010101	0306	0308	0316	0320	✓	✓							IP4
18 Jul	003	1500	58	01.03	140	25.31	7200	220	GP010102	1449	1451	1500	1501	✓	✓	1	0	1450				OC10
18 Jul	004	1820	58	10.40	140	20.92	7200	220	GP010103	1812	1813	1820	1826	✓	✓	2	220	1822				OC9
18 Jul	005	2115	58	19.29	140	17.50	7200	220	GP010104	2067	2108	2115	2123	✓	✓	3	0	2108				OC8
19 Jul	006	0118	58	39.80	140	11.29	225	215	GP010105	0107	0108	0118	0123	✓	✓	4	215	0121				OC6
18 Jul	007	1432	58	53.42	140	06.59	162	148	GP010106	1418	1425	1432	1435	✓	✓	5	6	1426				OC5. Sample at TSG intake depth.
19 Jul	008	1717	59	02.92	140	03.09	121	112	GP010107	1709	1710	1717	1720	✓	✓	6	112	1719				OC4
19 Jul	009	2020	59	13.17	139	59.68	116	105	GP010108	2012	2014	2020	2022	✓	✓	7	6	2015				OC3
19 Jul	010	2309	59	22.75	139	55.71	176	163	GP010109	2300	2301	2309	2315	✓	✓	8	163	2311				OC2
20 Jul	011	0141	59	29.10	139	52.83	79	67	GP010110	0136	0137	0141	0143	✓	✓	9	6	0138				OC1
22 Jul	012	1342	60	02.61	142	30.0	27	22	GP010111	1338	1341	1342	1344	✓	✓	10	22	1343				IB1
22 Jul	013	1634	59	54.25	142	29.60	97	91	GP010112	1628	1629	1634	1635	✓	✓	11	6	1629				FB2
22 Jul	014	1942	59	44.29	142	31.83	187	179	GP010113	1923	1934	1942	1946	✓	✓	12	179	1944				IB3

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GMT = ADT + 8

Depth(m)  $\approx$  twice, depth(fm) - 1/10 the result

Wishin bottle ~ 2 in above conductivity cell

Seacat SBE 19 S/N 2212  
Pressure sensor 178049-2212  
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WET Labs WETStar S/N WS3S-142

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CTD ops.  
E.D. Cokelet

2001 Date	CTD Cast no.	GMT	Latitude (°N)	Longitude (°W)	Bottom Depth (m)	Max wire out (m)	File Name	Data On (GMT)	Start Down (GMT)	At Depth (GMT)	At Surface (GMT)	D.O.	FL	Sal Bottle No	Chloro phyll	Sample Depth (m)	Sample Trip Time (GMT)	Autosal Sal	Seacat Press	Seacat Sal	Seacat Temp	Remarks	
22 Jul	015	2308	59	31.31	142	35.97	164	154	GP01	2300	2301	2308	2312	✓	✓	13	✓	6	2303				IB5
23 Jul	016	0148	59	18.01	142	39.27	>2000	200	GP01	0146	0148	0156	0203	✓	✓	14		200	0159				IB6
23 Jul	017	1347	59	09.09	144	36.22	>2000	220	GP01	1336	1337	1347	~1353	✓	✓	15	✓	6	1337				CSE5
23 Jul	018	1656	59	19.40	144	36.71	>2000	220	GP01	1643	1645	1656	1702	✓	✓	16		220	1658				CSE4
23 Jul	019	1946	59	31.28	144	36.73	187	170	GP01	1936	1938	1946	1950	✓	✓	17	✓	6	1939				Motor wheel not functioning Verify depths! CSE3
23 Jul	020	2257	59	38.05	144	35.06	149	126	GP01	2251	2254	2257	2301	✓	✓	18		126	2259				wheel repaired. CSE2
24 Jul	021	0158	59	46.94	144	41.04	45	40	GP01	0154	0155	0158	0159	✓	✓	19	✓	6	0158				CSE1
24 Jul	022	1409	59	42.75	147	49.69	71	66	GP01	1403	1405	1409	1411	✓	✓	20	✓	6	1406				CC1
24 Jul	023	1719	59	33.74	147	36.46	102	91	GP01	1713	1715	1719	1722	✓	✓	21		91	1720				CC3
24 Jul	024	2047	59	21.37	147	20.08	155	143	GP01	2038	2040	2047	2049	✓	✓	22	✓	6	2040				CC5
24 Jul	025	2330	59	13.69	147	08.64	201	186	GP01	2319	2321	2330	2336	✓	✓	23		186	2332				CC6
25 Jul	026	0317	59	03.19	146	56.98	>2000	220	GP01	0304	0307	0317	0319	✓	✓	24	✓	6	0307				CC7
25 Jul	027	1354	58	14.41	147	56.55	>2000	220	GP01	1339	1340	1354	1400	✓	✓	25		220	1356				GAK 12
25 Jul	028	1653	58	23.69	148	04.17	1381	220	GP01	1640	1642	1653	1657	✓	✓	26	✓	6	1643				GAK 11

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$$GMT = ADT + 8$$

Depth (m)  $\approx$  twice depth in fathoms minus  $\frac{1}{10}$  the result

Wiskin bottle, ~ 2m above CTD cell

Ship's searchlight intake  $\sim 4\text{ m} \Rightarrow 6\text{ km}$  were out

Seacat SBE 19 S/N 2212  
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2001		CTD	GMT	Latitude (°N)		Longitude (°W)		Bottom Depth (m)	Max wire out (m)	File Name	Data On (GMT)	Start Down (GMT)	At Depth (GMT)	At Surface (GMT)	D.O.	FL	Sal Bottle No	Chloro phyll	Saline out Sample Depth (m)	Sample Trip Time (GMT)	Autosal Sal	Seacat Press	Seacat Sal	Seacat Temp	Remarks	CTD ops. E.D. Cooley	
25 Jul	029	1945	58	32.42	148	12.39	1421	220	GP01		1934	1936	1945	1952	✓	✓	—									GAK 10.	Bottle Mistrip.
25 Jul	030	2234	58	40.98	148	21.53	269	220	GP01		2221	2224	2234	2238	✓	✓	27	✓	6	2225						GAK 9	
26 Jul	031	0148	58	47.88	148	29.99	283	220	GP01		0136	0138	0148	0153	✓	✓	28		220	0150						GAK 8	
26 Jul	032	1343	58	58.32	148	38.05	234	220	GP01		1330	1333	1343	1348	✓	✓	29	✓	6	1334						GAK 7	
26 Jul	033	1642	59	07.02	148	45.65	144	130	GP01		1634	1635	1642	1648	✓	✓	30		130	1644						GAK 6	
26 Jul	034	1933	59	15.75	148	53.89	157	145	GP01		1924	1926	1933	1937	✓	✓	31	✓	6	1936						GAK 5	
26 Jul	035	2248	59	24.62	149	03.26	190	178	GP01		2236	2239	2248	2255	✓	✓	32		178	2251						GAK 4	
27 Jul	036	0128	59	32.66	149	13.67	218	202	GP01		0116	0118	0128	0134	✓	✓	33	✓	6	0132						GAK 3	
27 Jul	037	0542	59	33.29	149	10.90	205	192	GP01		0531	0532	0542	0551	✓	✓	34		192	0545						GAK 3	
27 Jul	038	0948	59	33.21	149	10.88	203	190	GP01		0932	0933	0948	0955	✓	✓	35	✓	6	0954						GAK 3	
27 Jul	039	1341	59	33.27	149	11.49	207	193	GP01		1330	1332	1341	1348	✓	✓	36		193	1344						GAK 3	
27 Jul	040	1737	59	33.25	149	11.71	203	190	GP01		1725	1728	1737	1742	✓	✓	37	✓	6	1741						GAK 3	
27 Jul	041	2137	59	33.07	149	11.37	205	192	GP01		2125	2127	2137	2144	✓	✓	38		192	2139						GAK 3	
28 Jul	042	0042	59	41.38	149	19.98	221	208	GP01		0030	0033	0042	0047	✓	✓	39	✓	6	0046						GAK 2	



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$$GMT = ADT + 8$$

Depth (m)  $\approx$  Twice depth (fm) - 1/10 the result

Niskin bottle ~ 2 m above CTD cell

Ship's seacrest intake ~ 4m  $\Rightarrow$  6m wire out

Max. wire out = Bottom Depth - 10m. Do not exceed 220 m wire out.

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CTD ops.

2001 Date	CTD Cast	GMT	Latitude (°N)	Longitude (°W)	Bottom Depth (m)	Max wire out (m)	File Name	Data On (GMT)	Start Down (GMT)	At Depth (GMT)	At Surface (GMT)	D.O.	FL	Sal Bottle No	Chloro phyll	Sample Depth (m)	Sample Trip Time (GMT)	Autosal Sal	Seacat Press	Seacat Sal	Seacat Temp	Remarks	CTD ops.	
28 Jul	043	0341	59	50.50	149	29.37	262	220	GP01	0327	0329	0341	0349	✓	✓	40	✓	6	0348				GAK1	E. D. Cokelet
29 Jul	044	1539	59	11.10	150	57.17	35	25	GP01044	1533	1536	1539	1541	✓	✓	41	✓	6	1540				GP1	Bruce Wring
29 Jul	045	1920	58	52.95	150	44.22	121	110	GP01045	1913	1915	1920	1923	✓	✓	42	✓	110	1921				GP3	
29 Jul	46	2233	58	43.96	150	37.91	183	170	GP01046	2219	2225	2233	2236	✓	✓	43	✓	6	2237				GP4	
30 July	47	0123	58	34.95	150	29.39	176	165	GP01047	0109	0113	0123	0127	✓	✓	44	✓	165	0124				GP5	
30 July	48	1429	58	24.97	150	22.59	66	45	GP01048	1428	1428	1429	1434	✓	✓	45	✓	6	1434				GP6	
	Seacrest sample																6	1650					139 ML bottle	
30 July	49	1739	58	16.03	150	16.06	57	45	GP01049	1736	1739	1739	1741	✓	✓	46	✓	45	1740				GP7	
30 July	50	2039	58	7.12	150	9.28	252	200	GP01050	2044	2029	2039	2043	✓	✓	47	✓	6	2042				GP8	
30 July	51	2338	57	58.14	150	2.15	247	200	GP01051	2327	2328	2336	2341	✓	✓	48	✓	200	2338				GP9	
31/07	52	0220	57	50.02	149	55.61	246	200	GP01052	0208	0209	0220	0224	✓	✓	49	no sample		0223				GP10	
31/07	53	1357	57	38.96	149	48.31	578	200	GP01053	1347	1348	1357	1406			50		200	1403				GP11	wire < 15°
31/07	54	1708	57	29.19	149	41.60	1450	200	GP01054	1655	1657	1708	1712	✓	✓	51	✓	6	1711				GP12	
31/07	55	2002	57	20.43	149	33.74	>2000	200	GP01055	1950	1952	2002	2008	✓	✓	52	✓	200	2004				GP13	

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CTD out = 353

Surface  
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2001 Date	CTD Cast ID	GMT	Latitude (°N)	Longitude (°W)	Bottom Depth (m)	Max wire out (m)	File Name	Data On (GMT)	Start Down (GMT)	At Depth (GMT)	At Surface (GMT)	D.O.	FL	Sal Bottle No	Chloro phyll	Sample Depth (m)	Trip Time (GMT)	Autosal Sal	Seacat Press	Seacat Sal	Seacat Temp	Remarks	CTD Bruce	GPS Wing	
1 Aug	56	2309	57	11.35	149	26.14	2000	200	9P01056	2257	2359	2309	2313	-	-	53	-	6	2312					GP14	
1 Aug	57	1400	56	16.50	150	51.03	2000	200	9P01057	1347	1349	1400	1407	-	-	54	-	200	1402	sal data spiking pump connection off?			wire 15	CCH7	
1 Aug	58	1728	56	29.69	151	3.98	2000	200	9P01058	1716	1718	1728	1732	-	-	55	-	6	1731					CCH6	
1 Aug	59	2043	56	42.44	151	17.21	14523	200	9P01059	2031	2033	2043	2048	-	-	56	-	200	2095					CCH5	
2 Aug	60	0001	56	55.78	151	30.07	<del>7200</del> 364	200	9P01060	2356 53	<del>2352</del> 2354	<del>0000</del> 0000	0003	-	-	57	-	6	0003					skipped time not wing time	CCH4
2 Aug	61	1356	57	8.95	151	43.84	75	65	9P01061	1350	1352	1356	0558	-	-	58	-	65	1356:31					CCH3	
2 Aug	62	1720	57	22.10	151	56.63	64	55	9P01062	1715	1718	1720	1722	-	-	59	-	6	1721					CCH2	
2 Aug	63	2019	57	34.61	152	8.78	37	30	9P01063	2015	2017	2019	2020	-	-	60	-	35	2019					CCH1	
3 Aug	64	1400	58	3.00	153	27.05	73	50	9P01064	1355	1357	1400	1402	-	-	61	-	6	1401					CN1	
3 Aug	65	1725	58	10.85	153	46.79	183	170	9P01065	1716 1417	1717 1417	1725 1428	1728 1428	-	-	62	-	170	1727 1427					CN2	
3 Aug	66	2332	58	21.93	153	55.97	62	410	9P01066	2328	2329	2332	2333	-	-	63	-	6	2333					CN3	
4 Aug	67	1409	57	41.70	155	17.13	274	1208	9P01067	1357	1359	1409	1414	-	-	64	-	125	1411					CK1	
4 Aug	68	1715	57	34.67	155	2.99	228	200	9P01068	1703	1704	1715	1720	-	-	65	-	6	1719					CK2	
4 Aug	69	2250	57	25.84	154	45.99	79	70	9P01069	2245	2246	2250	2252	-	-	66	-	70	2251					CK3	

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Date	CTD Cast no.	GMT	Latitude (°N)		Longitude (°W)		Bottom Depth (m)	Max wire out (m)	File Name	Data On (GMT)	Start Down (GMT)	At Depth (GMT)	At Surface (GMT)	D.O.	FL	Sal Bottle No	Chloro phyll	Wire Out	Sample	Autosal Sal	Seacat Press	Seacat Sal	Seacat Temp	Remarks	CTD ops. Brace wing
			Depth (m)	Trip Time (GMT)	Depth (m)																				
5 Aug	70	1355	56	41.94	153	55.97	24	153	9P01070	1353	1354	1355	1356	N	✓	67	✓	6	1356					CKAG1	
5 Aug	71	1641	56	28.83	153	42.63	88	80	9P01071	1635	1636	1641	1642	N	✓	68	✓	80	1641					CKAG2	
5 Aug	72	1953	56	15.62	153	29.83	81	70	9P01072	1948	1950	1953	1954	N	✓	69	—	6	1954					lowered too fast. CKAG3	
5 Aug	73	2211	56	6.74	153	20.79	958	208	9P01073	2229	2232	2241	2246	N	✓	70	—	208	2243					CKAG4	
6 Aug	74	0206	55	54.03	153	8.09	2000	200	9P01074	0855	0856	0206	0210	N	✓	71	✓	6	0209					CKAG5	
6 Aug	75	1410	55	40.72	152	54.59	2000	200	9P01075	1355	1358	1410	1415	N	—	—	—	—	—					miss drop on bottom. CKAG6	
							200					1420	1425	—	72	—	—	200	1422					no cast bottom.	