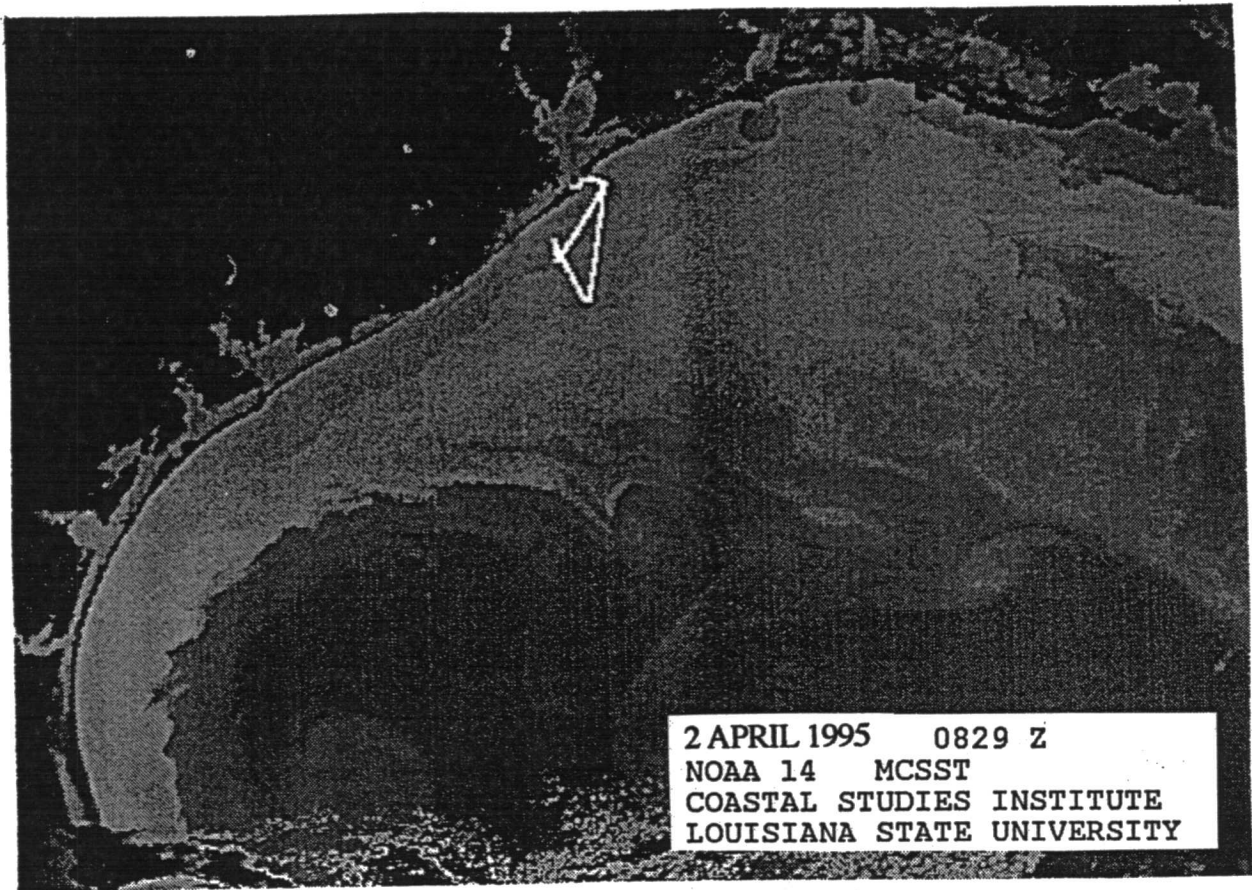


HYDROGRAPHIC DATA OF OPPORTUNITY
FROM THE TEXAS CONTINENTAL SHELF
1-2 APRIL 1995



Technical Report 95-07-T of the Department of Oceanography
of Texas A&M University, College Station, TX 77843-3146

14 July 1995

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B.1

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COVER: Sea Surface Temperature map for the NW Gulf of Mexico, from NOAA - 14 overflight at 08:29 GMT on 2 April 1995, processed by Dr. Larry Rouse (LSU). The 2 April cruise track for R/V *Gyre* is superimposed as the white line extending south from Galveston Bay. Plumes of cooler water are evident outflowing on to the inner shelf from Galveston Bay, Sabine Lake, Calcasieu Lake, and Athcafalaya Bay, and a downcoast cool coastal current can also be seen.

SYNOPSIS

The weekend of 1-2 April 1995, R/V *Gyre* made 2 short cruises south from Galveston TX out on to the inner continental shelf. On Saturday 1 April, during a 4 hour "Open House" excursion to demonstrate ship equipment and laboratories in support of student training and research, underway temperature and salinity data were logged as *Gyre* proceeded down the Pelican Island Ship Channel to Bolivar Roads and out on to the shelf, where a CTD cast was done just seaward of the Sea Buoy at the entrance to Galveston Bay. On Sunday 2 April, during a 16 hour and 110 nautical mile round trip cruise to deploy 2 current meter moorings for the Texas Automated Buoy System (TABS) project of the Texas General Land Office, underway temperature and salinity data were again logged and a CTD cast was again done just seaward of the Galveston Bay Sea Buoy. Additional CTD casts were done on 2 April at the deployment locations of 2 TABS current meters.

The underway and CTD data document that Galveston Bay water was cooler and fresher than that of the inner shelf, and also that the temperature and salinity structure of the inner shelf was complex. Water in the Ship Channel in Galveston Bay ranged 14-18 ppt and 18.3 - 18.5°C as *Gyre* sailed out of (18:00 GMT) and returned again to enter the Bay (22:00 GMT) on 1 April. The next day 2 April, when *Gyre* departed at 09:30 GMT the water in the Ship Channel was markedly fresher (9-10 ppt) and slightly cooler (18.1 - 18.2°C).

How much fresh water from the Bay escapes to and exchanges with the shelf is of course determined by the phase of the tidal cycle, but despite the marked differences in salinity of water in the Pelican Island Ship Channel, conditions at the entrance to Galveston Bay were quite similar on 1 and 2 April. For the CTD done just seaward of the Sea Buoy on 1 April, near surface salinity ranged 25.6 - 26.0 and near-surface temperature ranged 18.8 - 18.9°C. The next day 2 April, near surface salinity for the CTD done at almost the same location ranged 24.4 - 25.7 and near-surface temperature ranged 19.0 - 19.1°C.

Three regional views of surface temperature of the NW Gulf of Mexico were provided by NOAA-14 at 19:57 GMT on 1 April, at 08:29 GMT on 2 April, and at 19:47 GMT on 2 April. From image processing by Dr. Larry Rouse of the Coastal Studies Institute at Louisiana State University, it can be seen that on 1-2 April 95 plumes of cool water were outflowing on to the Texas inner shelf from Galveston Bay and Sabine Lake, and on to the Louisiana inner shelf from Calcasieu Lake and from the Atchafalaya Bay. When the 2 April cruise track of *Gyre* was superimposed on the 08:29 GMT image that is the median in time of these 3 images, it can be seen that the cruise track not only transited the Galveston Bay outflow plume but that it crossed 2 thermal fronts seaward of that plume on the inner shelf. Downcoast longshore flow can be seen in this image, and there appears to be a region of cyclonic circulation just seaward of the shelf break in south Texas, centered about 26.5°N, 96°W.

CTD DATA

Temperature and salinity were profiled with a Seabird SBE-911plus CTD. A Chelsea Instruments 'Aquatrakka' Mark III submersible fluorometer was attached to profile fluorescence.

The following pages present tables of downcast data (depth, temperature, salinity, sigma-theta, submersible fluorometer voltage). These have been 1-m averaged.

Bottle samples were tripped at 3 depths at each of the CTD stations (near-surface, midwater, and just off bottom) and analyzed by conductive salinometer (Guildline 8600). For each/all of these bottle samples, there was excellent agreement with CTD salinity so no correction has been made to the downcast CTD salinity data.

C02G001.ASC

April 6, 1995

Cruise: 95G02
Date: Apr 01 1995
Time: 19:33:09 GMT
Lat: 29 17.034 N
Lon: 94 40.399 W
Stn: 1

DepS	T	Sal	Sigma- θ	V1
2.000	18.8713	25.5673	17.8601	2.043
3.000	18.8538	25.8310	18.0650	2.052
4.000	18.8404	25.9924	18.1911	2.054
5.000	18.8035	26.2031	18.3604	2.035
6.000	18.7851	26.3082	18.4449	1.970
7.000	18.7760	26.3776	18.4999	1.980
8.000	18.7735	26.3959	18.5145	1.982
9.000	18.7683	26.4462	18.5541	1.978

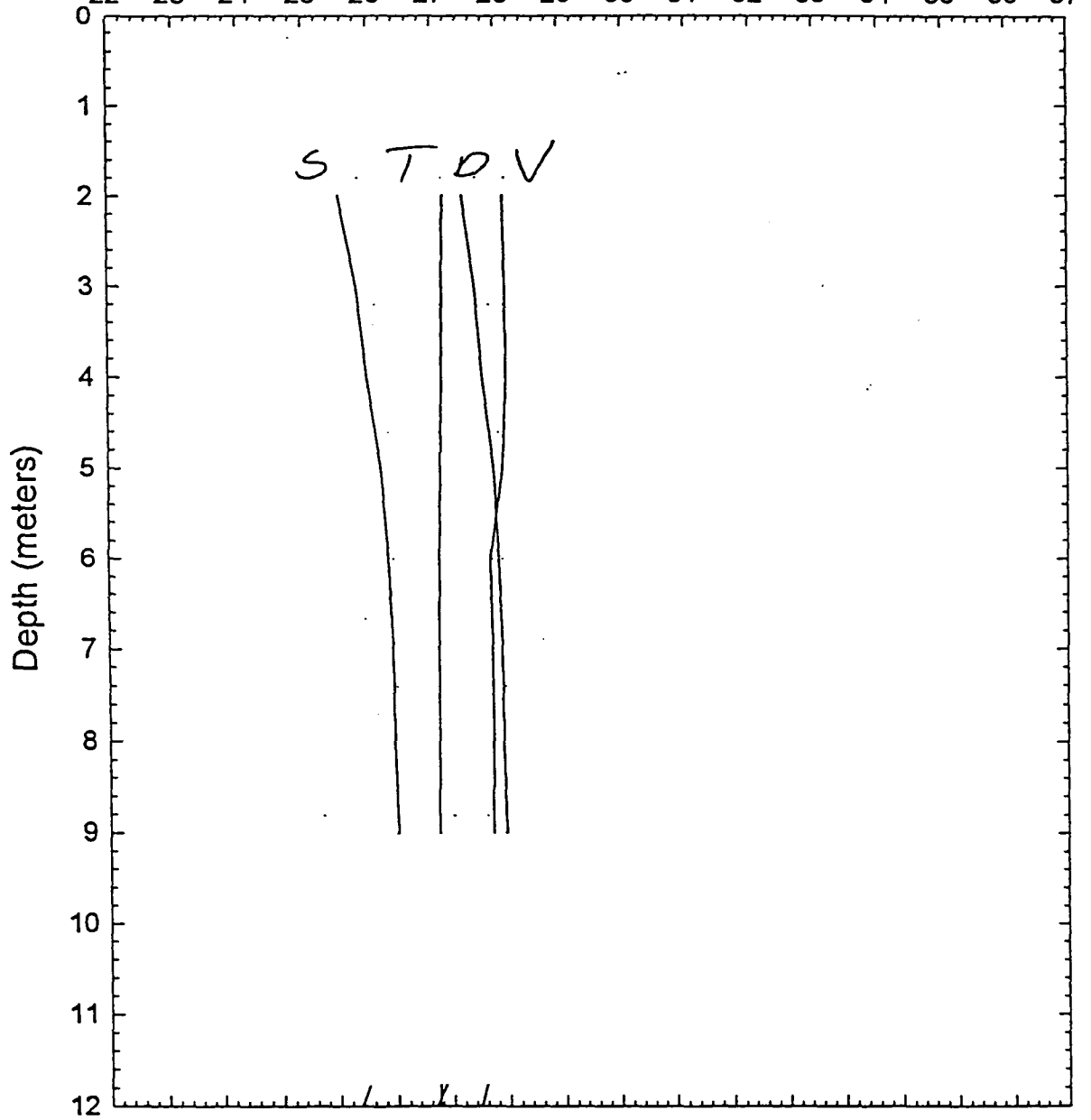
95G02

Density (Sigma-theta)

12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28

Salinity (ppt)

22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37



Stn. 01

April 6, 1995

Cruise: 95G02
Date: Apr 02 1995
Time: 10:26:20 GMT
Lat: 29 18.002 N
Lon: 94 40.479 W
Stn: 1A

DepS	T	Sal	Sigma- θ	V1
2.000	18.9831	24.4120	16.9544	2.068
3.000	19.0434	24.9127	17.3209	2.067
4.000	19.0844	25.6964	17.9073	2.061
5.000	19.0659	26.1339	18.2447	2.071
6.000	19.0318	26.3050	18.3832	2.108
7.000	18.9700	26.6484	18.6595	2.097
8.000	18.8377	27.3695	19.2407	2.185
9.000	18.7801	27.5821	19.4166	2.118

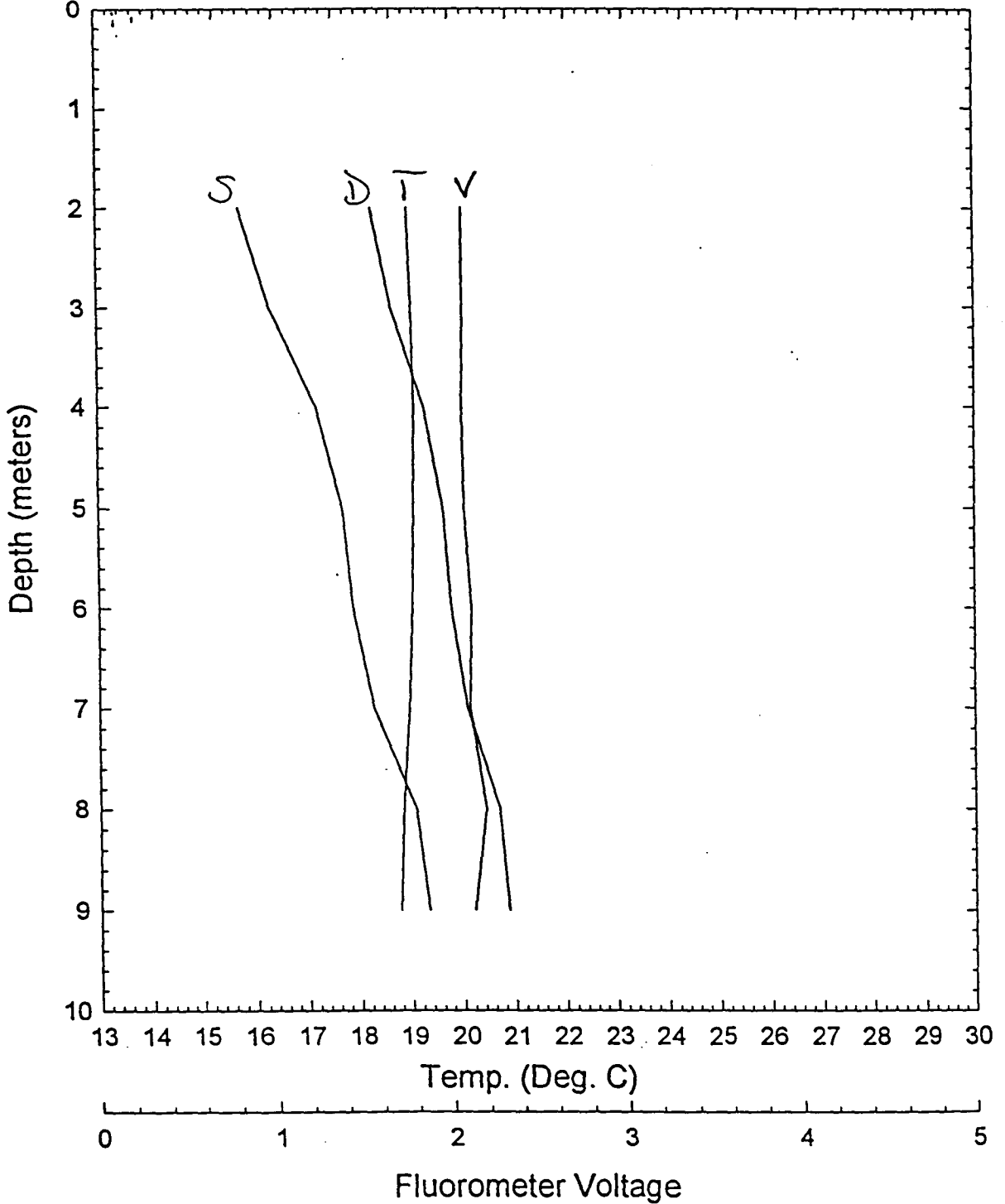
95G02

Density (Sigma-theta)

12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28

Salinity (ppt)

22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37



Stn. 01A

April 6, 1995

Cruise: 95G02
Date: Apr 02 1995
Time: 16:28:11 GMT
Lat: 28 48.777 N
Lon: 94 45.476 W
Stn: 2

DepS	T	Sal	Sigma- θ	V1
2.000	19.2109	32.7532	23.2528	1.263
3.000	19.1366	32.7535	23.2719	1.266
4.000	19.1399	32.7532	23.2708	1.309
5.000	19.1071	32.7530	23.2790	1.314
6.000	19.0758	32.7548	23.2884	1.385
7.000	19.0739	32.7574	23.2909	1.443
8.000	19.0659	32.7682	23.3012	1.502
9.000	19.0494	32.8145	23.3407	1.541
10.000	19.0153	32.9368	23.4428	1.588
11.000	18.9507	33.1122	23.5929	1.606
12.000	18.8779	33.2736	23.7346	1.611
13.000	18.7575	33.4134	23.8716	1.625
14.000	18.7293	33.5557	23.9875	1.637
15.000	18.7424	33.6526	24.0583	1.630
16.000	18.7346	33.7117	24.1055	1.593
17.000	18.7293	33.7491	24.1354	1.668
18.000	18.7218	33.7870	24.1663	1.650
19.000	18.7174	33.8261	24.1973	1.547
20.000	18.7092	33.8764	24.2379	1.519

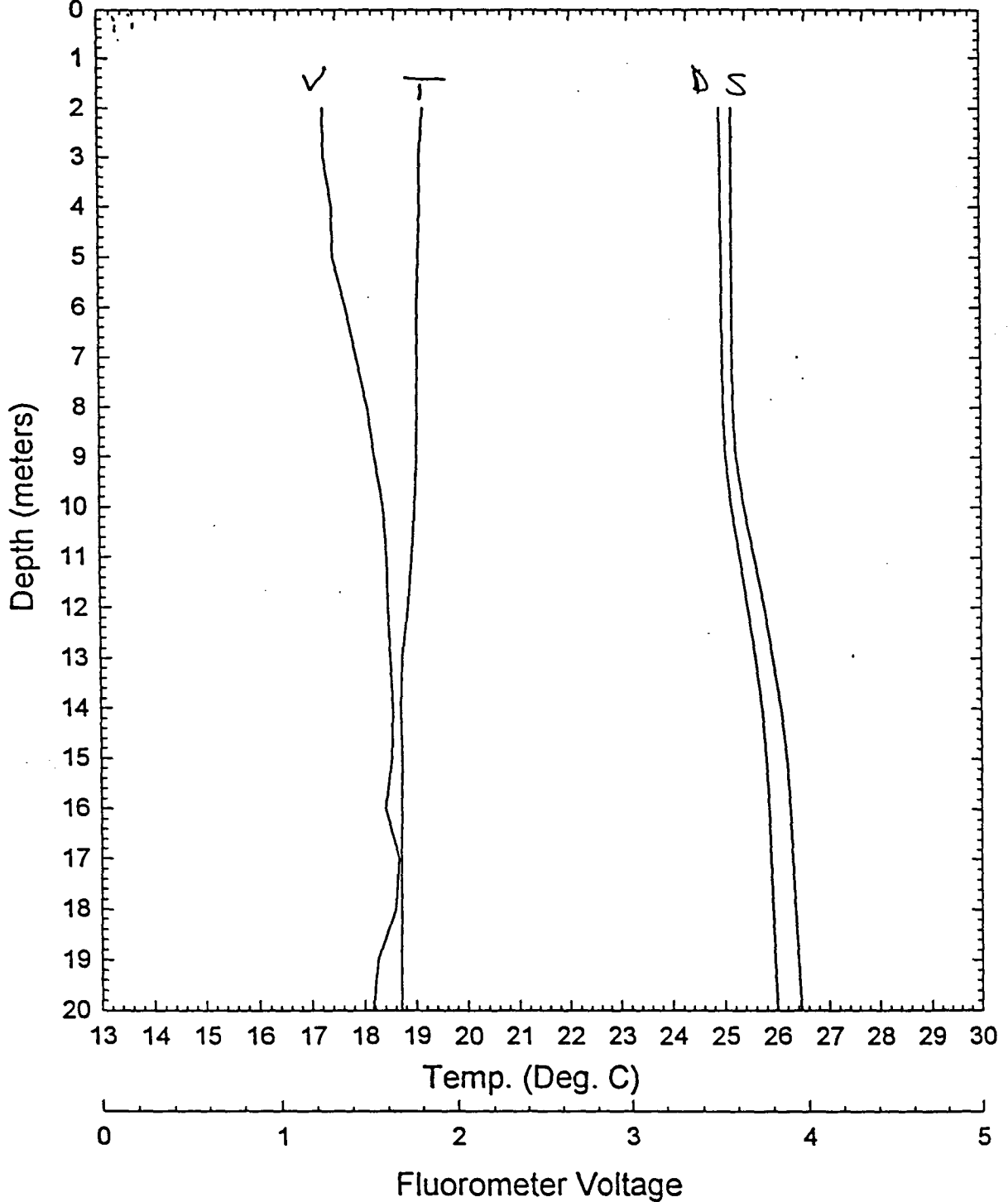
95G02

Density (Sigma-theta)

12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28

Salinity (ppt)

22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37



Stn. 02

Cruise: 95G02
Date: Apr 02 1995
Time: 19:14:10 GMT
Lat: 29 03.998 N
Lon: 94 55.008 W
Stn: 3

DepS	T	Sal	Sigma- θ	V1
2.000	19.0798	29.9566	21.1526	1.702
3.000	19.1407	29.9558	21.1369	1.694
4.000	19.1233	29.9516	21.1381	1.718
5.000	18.8061	29.9591	21.2221	1.745
6.000	18.7282	29.9586	21.2408	1.943
7.000	18.6632	29.9520	21.2518	2.024
8.000	18.6030	30.0023	21.3048	2.173
9.000	18.5691	30.0710	21.3655	2.150
10.000	18.5483	30.1539	21.4339	2.068
11.000	18.5699	30.3421	21.5724	2.050
12.000	18.4543	30.3963	21.6420	1.961
13.000	18.4064	30.5193	21.7475	1.909
14.000	18.4023	30.5916	21.8038	1.852
15.000	18.4149	30.6201	21.8225	1.876

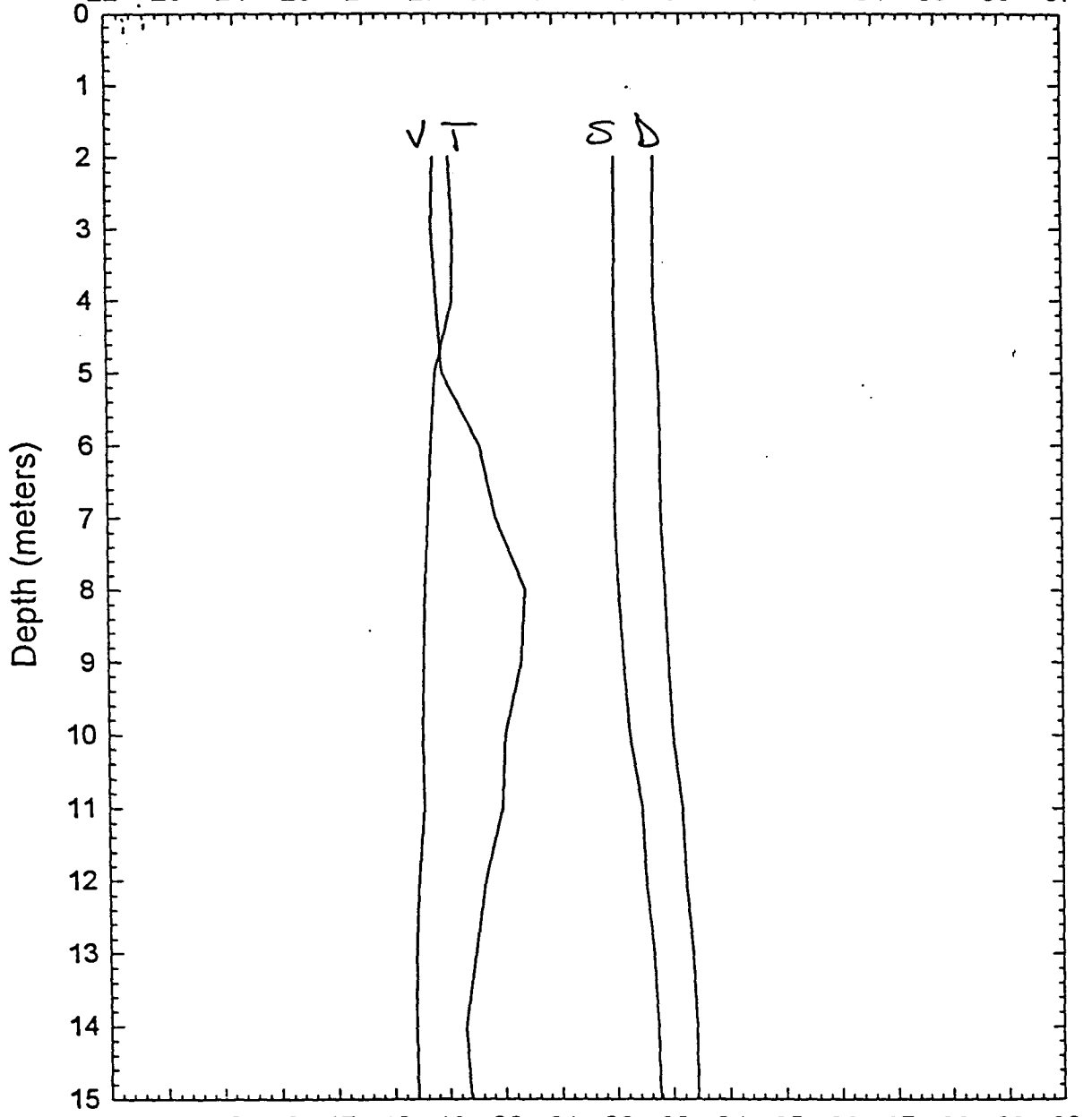
95G02

Density (Sigma-theta)

12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28

Salinity (ppt)

22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37



Stn. 03

UNDERWAY DATA

Surface Temperature and Salinity Data were logged continuously, in order to resolve near shore fronts. Data logged at 5-minute intervals on 1 April documented a 10 ppt increase in salinity (15 to 25 ppt) and a 1°C increase in temperature (18.4 to 19.5) as *Gyre* traversed from the Pelican Island Ship Channel to the Sea Buoy at the entrance to Galveston Bay. The next day 2 April, the data logging rate was increased to once per minute to provide finer spatial resolution of the cool and fresh Galveston Bay outflow plume on to the inner shelf and of the temperature and salinity front associated with the longshore Coastal Current.

The following tables summarize Date, Greenwich Mean Time (time), Latitude, Longitude, Photosynthetically Available Radiation (PAR), Surface Temperature (s-temp), Surface Salinity (s-salt), Air Temperature (air), Dewpoint (dew), Heading (gyr), and ship's Speed Over Ground (sog). The record is annotated with times when CTD casts were made and when NOAA-14 overflowed the field area.

R/V Gyre cruise 95G-02, Part 1: Saturday 1 April

*****Source file name s95g02.001*****

date	time	lat	lon	par	s-temp	s-salt	air	dew	gyr	sog
010495	1812:05	29.310	-94.813	1017	18.33	14.47	16.9	5.9	97	7.0
010495	1816:39	29.310	-94.803	1016	18.30	15.95	17.0	6.9	85	7.2
010495	1821:39	29.312	-94.792	1030	18.34	16.76	16.3	5.4	54	7.3
010495	1826:39	29.319	-94.783	1026	18.39	17.73	16.2	6.4	46	7.5
010495	1831:37	29.328	-94.777	1045	18.36	17.10	15.5	6.3	22	7.6
010495	1836:37	29.337	-94.772	1046	18.30	16.65	15.3	6.0	45	9.2
010495	1841:37	29.342	-94.759	1038	18.58	16.48	17.0	5.9	84	10.0
010495	1846:38	29.343	-94.743	1036	18.76	19.24	17.3	6.0	86	9.9
010495	1851:38	29.344	-94.727	1036	18.99	20.67	17.4	6.2	83	9.6
010495	1856:36	29.344	-94.713	1030	19.17	21.69	17.0	5.5	103	9.4
010495	1901:36	29.341	-94.698	1034	19.15	22.18	17.2	5.9	110	9.4
010495	1906:36	29.333	-94.687	1024	19.18	21.76	16.6	6.5	133	9.2
010495	1911:36	29.323	-94.678	1022	19.17	21.96	16.6	6.1	153	9.2
010495	1916:36	29.310	-94.674	1017	19.11	22.41	16.7	6.0	166	9.8
010495	1921:36	29.296	-94.673	1015	19.14	23.49	16.7	5.6	167	9.7
010495	1926:34	29.286	-94.672	1036	19.30	22.79	17.0	6.9	89	2.1
010495	1931:33	29.284	-94.673	1036	19.22	24.94	17.6	6.4	94	2.2
010495	1933:25	29.283	-94.674	1037	19.21	25.29	17.7	5.8	92	1.8
010495	1937:34	29.282	-94.675	1037	19.23	25.39	17.8	5.4	93	2.0
010495	1942:34	29.280	-94.677	1036	19.22	25.64	17.8	5.7	95	1.7
010495	1947:34	29.278	-94.679	1038	19.23	25.54	17.8	4.8	96	1.7
010495	1952:32	29.276	-94.681	1036	19.22	25.68	17.2	5.9	109	1.6
010495	1957:33	29.274	-94.683	1044	19.25	25.54	15.8	5.6	57	1.1
010495	2002:33	29.273	-94.684	1029	19.34	24.39	17.0	5.9	85	1.3
010495	2007:33	29.271	-94.685	1035	19.32	25.07	16.0	6.1	81	1.8
010495	2012:33	29.269	-94.684	1035	19.40	24.17	17.5	6.2	117	2.4
010495	2017:31	29.265	-94.684	1028	19.46	24.50	17.7	5.6	117	2.3
010495	2022:31	29.266	-94.682	1034	19.46	24.51	15.6	5.4	44	7.0
010495	2027:31	29.265	-94.683	1000	19.47	24.75	16.8	5.2	194	4.2
010495	2032:31	29.262	-94.685	1030	19.52	24.21	16.6	5.9	57	2.0
010495	2037:32	29.269	-94.679	1037	19.45	25.44	15.6	5.9	41	7.6
010495	2042:32	29.277	-94.671	1029	19.45	25.24	15.6	5.4	41	7.5
010495	2047:30	29.285	-94.663	1031	19.46	25.10	15.7	5.9	38	7.8
010495	2052:30	29.293	-94.655	1025	19.49	24.90	15.6	6.0	36	7.9
010495	2057:30	29.303	-94.649	1013	19.55	24.85	15.6	5.8	11	8.4
010495	2102:30	29.314	-94.650	1010	19.50	24.99	15.8	6.4	356	8.4
010495	2107:30	29.324	-94.657	1000	19.53	23.09	16.7	6.4	304	8.8
010495	2112:30	29.331	-94.669	1003	19.37	21.56	16.5	6.5	304	9.3
010495	2117:30	29.337	-94.682	1001	19.18	22.69	15.9	7.1	303	9.7
010495	2122:28	29.343	-94.696	987	19.21	22.22	18.6	6.3	284	9.7
010495	2127:28	29.346	-94.711	973	19.30	21.99	18.2	5.8	278	9.7
010495	2132:29	29.347	-94.727	957	19.23	20.85	17.9	5.9	267	9.6
010495	2137:29	29.346	-94.742	945	19.01	18.48	17.5	5.6	262	9.5
010495	2142:29	29.343	-94.756	944	18.88	18.21	17.7	6.7	255	9.4
010495	2147:29	29.340	-94.771	930	18.97	16.56	17.9	5.8	232	9.7
010495	2152:27	29.331	-94.778	935	18.83	16.79	19.6	6.2	194	7.8
010495	2157:27	29.321	-94.782	898	18.84	16.13	17.8	5.7	219	6.8
010495	2202:27	29.314	-94.791	665	18.66	15.93	17.6	5.8	241	8.1
010495	2207:27	29.310	-94.803	879	18.56	15.24	17.9	5.8	275	8.4
010495	2212:27	29.311	-94.816	871	18.55	15.52	18.1	6.0	287	4.9

1933Z: do CTD/rosette cast
SW of Galv Bay Sea Buo

1957Z: NOAA-14 AVHRR MCSST
overflight; SST field
was processed by LSU
Earth Scan Lab

*****Source file name s95g02.002*****

date	time	lat	lon	par	s-temp	s-salt	air	dew	gyr	sog
020495	0934:27	29.335	-94.774	6	18.27	8.87	14.6	10.3	34	8.5
020495	0934:52	29.336	-94.773	6	18.19	8.31	14.7	10.3	39	8.5
020495	0935:50	29.338	-94.772	6	18.17	8.58	14.7	10.2	51	8.7
020495	0936:50	29.339	-94.770	6	18.13	7.98	14.6	10.2	75	8.3
020495	0937:49	29.339	-94.767	6	18.21	8.75	14.4	10.3	81	8.8
020495	0938:49	29.340	-94.764	6	18.22	8.71	14.9	10.3	81	9.5
020495	0939:50	29.340	-94.761	6	18.23	8.84	15.1	9.9	80	9.6
020495	0940:50	29.341	-94.758	6	18.27	9.21	15.1	9.4	74	9.6
020495	0941:48	29.341	-94.755	6	18.29	9.35	14.8	9.0	75	9.8
020495	0942:49	29.342	-94.752	6	18.30	9.28	14.8	8.7	78	9.6
020495	0943:49	29.342	-94.749	6	18.33	9.38	15.0	8.6	75	9.8
020495	0944:50	29.343	-94.746	6	18.34	9.34	15.0	8.6	84	9.7
020495	0945:50	29.343	-94.743	6	18.35	9.31	15.1	8.9	87	9.6
020495	0946:49	29.344	-94.740	6	18.35	9.24	15.2	9.5	87	9.6
020495	0947:49	29.344	-94.737	6	18.37	9.28	15.3	9.9	81	9.6
020495	0948:49	29.344	-94.734	6	18.39	9.40	15.3	10.0	89	9.6
020495	0949:48	29.344	-94.731	6	18.39	9.69	15.4	10.1	86	9.6
020495	0950:48	29.344	-94.728	6	18.41	9.82	15.5	10.0	84	9.6
020495	0951:49	29.345	-94.725	6	18.41	9.93	15.6	9.9	85	9.4
020495	0952:49	29.345	-94.722	6	18.42	10.16	16.1	9.8	87	9.2
020495	0953:50	29.345	-94.719	6	18.41	10.33	16.2	9.7	94	9.5
020495	0954:48	29.345	-94.716	6	18.42	10.46	16.2	9.5	96	9.5
020495	0955:48	29.345	-94.713	6	18.41	10.61	16.2	9.5	103	9.6
020495	0956:49	29.344	-94.710	6	18.41	10.74	16.2	9.3	102	9.5
020495	0957:49	29.343	-94.707	6	18.40	10.64	16.3	9.2	101	9.8
020495	0958:48	29.343	-94.704	6	18.40	10.76	16.2	9.0	103	9.4
020495	0959:48	29.342	-94.701	6	18.53	11.44	16.2	8.8	104	9.2
020495	1000:49	29.342	-94.698	6	18.74	12.09	16.2	8.7	102	9.3
020495	1001:49	29.341	-94.695	6	18.65	13.56	16.2	8.8	102	9.6
020495	1002:49	29.340	-94.692	6	18.63	14.00	16.2	9.1	106	9.6
020495	1003:48	29.340	-94.689	6	18.68	14.28	16.2	9.4	116	9.7
020495	1004:48	29.338	-94.687	6	18.68	14.69	16.2	9.4	121	8.8
020495	1005:49	29.337	-94.684	6	18.70	14.92	16.2	9.4	125	9.3
020495	1006:49	29.336	-94.682	6	18.79	15.57	16.2	9.3	126	9.2
020495	1007:47	29.334	-94.679	6	18.88	17.51	16.3	9.0	143	9.0
020495	1008:48	29.332	-94.678	6	18.98	18.95	16.2	8.7	163	9.0
020495	1009:48	29.329	-94.677	6	19.03	19.42	16.2	8.4	170	9.3
020495	1010:49	29.327	-94.677	6	19.09	20.03	16.1	8.2	173	9.6
020495	1011:47	29.324	-94.676	6	19.15	21.35	16.1	8.1	172	9.7
020495	1012:48	29.321	-94.676	6	19.18	22.41	16.1	8.2	172	10.0
020495	1013:48	29.319	-94.675	6	19.20	22.78	16.0	8.2	173	9.9
020495	1014:49	29.316	-94.675	6	19.22	23.14	16.0	8.5	176	9.8
020495	1015:47	29.313	-94.675	6	19.23	23.33	16.0	8.8	180	10.0
020495	1016:47	29.310	-94.675	6	19.24	23.48	16.0	9.0	177	9.9
020495	1017:48	29.308	-94.675	6	19.25	23.69	16.1	9.1	175	9.9
020495	1018:48	29.305	-94.675	6	19.27	23.76	16.1	9.1	175	9.3
020495	1019:49	29.303	-94.675	6	19.27	23.88	16.2	9.1	171	4.8
020495	1020:47	29.302	-94.675	6	19.27	23.86	16.3	9.1	163	2.8
020495	1021:47	29.301	-94.675	6	19.29	23.83	16.3	9.2	153	1.9
020495	1022:48	29.301	-94.675	6	19.33	23.81	16.2	9.5	145	1.5
020495	1023:48	29.301	-94.674	6	19.34	23.82	16.3	9.6	140	0.8
020495	1024:47	29.301	-94.674	6	19.35	23.89	16.3	9.6	134	0.8
020495	1025:47	29.300	-94.675	6	19.41	23.98	16.2	9.6	129	0.8
020495	1026:48	29.300	-94.675	6	19.44	24.11	16.3	9.6	122	0.6
020495	1027:48	29.300	-94.675	6	19.44	24.19	16.3	9.8	116	0.4
020495	1028:46	29.300	-94.675	6	19.45	24.28	16.2	9.8	110	0.8
020495	1029:47	29.300	-94.675	6	19.43	24.36	16.3	9.8	103	0.6
020495	1030:47	29.300	-94.675	6	19.40	24.40	16.3	9.7	98	0.9
020495	1031:48	29.299	-94.675	6	19.39	24.41	16.3	9.6	91	1.0
020495	1032:48	29.299	-94.675	6	19.37	24.36	16.2	9.2	85	0.5
020495	1033:46	29.299	-94.675	6	19.38	24.38	16.3	9.0	86	0.8
020495	1034:47	29.299	-94.676	6	19.40	24.54	16.2	8.8	95	0.5
020495	1035:47	29.299	-94.676	6	19.41	24.71	16.2	9.0	110	0.3
020495	1036:48	29.299	-94.676	6	19.42	24.97	16.2	9.2	129	1.2
020495	1037:46	29.298	-94.675	6	19.40	24.92	16.2	9.2	134	1.7
020495	1038:47	29.298	-94.675	6	19.38	24.69	16.2	9.2	133	1.7
020495	1039:47	29.297	-94.675	6	19.38	24.53	16.2	9.4	133	2.2
020495	1040:47	29.297	-94.674	6	19.37	24.40	16.2	9.4	132	2.2
020495	1041:46	29.296	-94.674	6	19.36	24.34	16.2	9.5	131	2.2
020495	1042:46	29.296	-94.674	6	19.36	24.28	16.2	9.4	130	2.1
020495	1043:46	29.295	-94.673	6	19.35	24.26	16.2	9.4	132	2.3
020495	1044:46	29.295	-94.673	6	19.37	24.30	16.1	9.5	134	2.2
020495	1045:44	29.294	-94.673	6	19.37	24.35	16.1	9.6	139	2.2
020495	1046:46	29.294	-94.672	6	19.38	24.40	16.2	9.7	137	2.2
020495	1047:45	29.293	-94.672	6	19.39	24.49	16.2	9.5	138	2.3
020495	1048:47	29.292	-94.672	6	19.40	24.54	16.2	9.4	138	2.3

1026Z: do CTD/rosette cast
SW of Galv Bay Sea Buoy
(close to same spot as
station at 1933Z Apr 1)

020495	1049:46	29.292	-94.671	6	19.41	24.56	16.3	9.3	138	2.3
020495	1050:45	29.291	-94.671	6	19.41	24.58	16.2	9.2	141	2.4
020495	1051:45	29.291	-94.671	6	19.42	24.56	16.2	9.3	141	2.3
020495	1052:46	29.290	-94.671	6	19.43	24.69	16.2	9.4	141	2.3
020495	1053:46	29.289	-94.670	6	19.44	24.81	16.2	9.4	142	2.3
020495	1054:44	29.289	-94.670	6	19.44	24.84	16.2	9.3	142	2.4
020495	1055:45	29.288	-94.670	6	19.45	24.81	16.2	9.3	142	2.2
020495	1056:45	29.288	-94.670	6	19.45	24.83	16.2	9.4	142	2.4
020495	1057:46	29.287	-94.669	6	19.45	24.83	16.2	9.5	142	2.4
020495	1058:44	29.286	-94.669	6	19.47	24.83	16.2	9.3	142	2.1
020495	1059:44	29.286	-94.669	6	19.47	24.85	16.3	9.2	141	2.1
020495	1100:45	29.285	-94.669	6	19.46	24.87	16.2	9.1	143	2.1
020495	1101:45	29.285	-94.668	6	19.47	24.86	16.3	9.0	143	2.2
020495	1102:44	29.284	-94.668	6	19.47	24.86	16.2	9.0	142	2.2
020495	1103:44	29.283	-94.668	6	19.48	24.90	16.2	9.1	143	2.3
020495	1104:45	29.283	-94.668	6	19.49	24.97	16.1	9.5	142	2.2
020495	1105:45	29.282	-94.668	6	19.50	24.97	16.1	9.8	144	2.1
020495	1106:46	29.282	-94.668	6	19.50	25.03	16.2	10.0	143	2.2
020495	1107:44	29.281	-94.667	6	19.51	25.07	16.2	9.9	155	2.3
020495	1108:44	29.280	-94.667	6	19.52	25.11	16.2	9.6	156	2.4
020495	1109:45	29.280	-94.667	6	19.53	25.27	16.2	9.3	155	2.3
020495	1110:45	29.279	-94.667	6	19.53	25.50	16.2	9.0	156	2.3
020495	1111:44	29.278	-94.667	6	19.53	25.61	16.2	8.8	150	2.2
020495	1112:44	29.278	-94.667	6	19.54	25.71	16.2	8.7	144	1.5
020495	1113:44	29.277	-94.667	6	19.55	25.79	16.2	8.8	141	1.4
020495	1114:45	29.277	-94.667	6	19.57	25.91	16.2	9.1	137	0.9
020495	1115:43	29.277	-94.667	6	19.61	25.98	16.2	9.3	132	0.9
020495	1116:44	29.277	-94.667	6	19.63	26.17	16.2	9.4	125	0.9
020495	1117:44	29.277	-94.668	6	19.63	26.36	16.2	9.5	119	0.8
020495	1118:45	29.276	-94.668	6	19.60	26.50	16.1	9.7	112	1.0
020495	1119:43	29.276	-94.668	6	19.54	26.65	16.2	9.9	106	0.9
020495	1120:43	29.276	-94.668	6	19.49	26.69	16.2	9.9	99	0.8
020495	1121:44	29.276	-94.669	6	19.49	26.65	16.2	9.7	95	1.1
020495	1122:44	29.276	-94.669	6	19.49	26.61	16.2	9.6	93	1.0
020495	1123:45	29.275	-94.669	6	19.49	26.55	16.2	9.2	92	1.0
020495	1124:43	29.275	-94.669	6	19.49	26.47	16.2	9.1	89	1.0
020495	1125:44	29.275	-94.670	6	19.49	26.46	16.2	9.0	85	1.1
020495	1126:44	29.275	-94.670	6	19.49	26.42	16.3	8.8	82	1.2
020495	1127:44	29.275	-94.670	6	19.49	26.39	16.2	8.6	81	1.3
020495	1128:43	29.274	-94.670	6	19.50	26.31	16.2	8.6	80	1.2
020495	1129:43	29.274	-94.671	6	19.50	26.29	16.2	8.8	79	1.0
020495	1130:44	29.274	-94.671	6	19.50	26.25	16.2	9.1	80	1.1
020495	1131:44	29.274	-94.671	6	19.50	26.31	16.3	9.4	82	1.0
020495	1132:42	29.273	-94.671	6	19.50	26.33	16.2	9.4	83	0.9
020495	1133:43	29.273	-94.672	6	19.50	26.36	16.3	9.3	82	1.4
020495	1134:43	29.273	-94.672	6	19.49	26.38	16.3	9.2	84	1.5
020495	1135:44	29.273	-94.672	6	19.49	26.37	16.3	9.1	94	0.8
020495	1136:42	29.272	-94.672	6	19.48	26.00	16.2	8.9	195	5.4
020495	1137:43	29.270	-94.672	6	19.44	25.67	16.2	8.6	185	9.3
020495	1138:43	29.268	-94.673	6	19.45	26.15	16.1	8.3	183	10.3
020495	1139:44	29.265	-94.673	6	19.42	26.54	16.1	8.4	180	10.4
020495	1140:44	29.262	-94.673	6	19.41	26.76	16.1	8.5	178	10.3
020495	1141:42	29.259	-94.673	6	19.40	26.91	16.2	8.7	177	10.2
020495	1142:43	29.256	-94.673	6	19.39	26.91	16.1	8.9	178	10.4
020495	1143:43	29.253	-94.673	6	19.38	27.07	16.2	9.2	178	10.1
020495	1144:44	29.250	-94.674	6	19.37	27.11	16.1	9.4	178	10.1
020495	1145:42	29.247	-94.674	6	19.35	27.17	16.2	9.6	177	11.0
020495	1146:42	29.244	-94.674	6	19.34	27.22	16.2	9.5	178	10.5
020495	1147:43	29.242	-94.674	6	19.33	27.28	16.2	9.5	178	10.7
020495	1148:43	29.239	-94.674	6	19.31	27.50	16.2	9.4	178	10.6
020495	1149:42	29.236	-94.674	7	19.29	27.55	16.1	9.4	178	10.4
020495	1150:42	29.233	-94.674	7	19.30	27.54	16.2	9.3	178	10.5
020495	1151:43	29.230	-94.674	7	19.27	27.58	16.2	9.4	178	10.8
020495	1152:43	29.227	-94.675	7	19.26	27.69	16.1	9.3	178	10.4
020495	1153:41	29.224	-94.675	7	19.23	27.76	16.1	9.3	177	10.3
020495	1154:42	29.221	-94.675	7	19.25	27.75	16.2	9.3	178	10.3
020495	1155:42	29.218	-94.675	8	19.22	27.86	16.1	9.3	178	10.4
020495	1156:43	29.215	-94.675	8	19.21	27.88	16.1	9.5	178	10.5
020495	1157:43	29.213	-94.676	9	19.20	27.89	16.1	9.7	178	10.3
020495	1158:41	29.210	-94.676	9	19.19	27.79	16.1	9.6	178	10.3
020495	1159:42	29.207	-94.676	10	19.16	27.84	16.1	9.5	179	10.4
020495	1200:42	29.204	-94.676	10	19.15	27.79	16.0	9.4	178	10.2
020495	1201:43	29.201	-94.677	11	19.13	27.72	16.1	9.4	178	10.3
020495	1202:41	29.198	-94.677	12	19.13	27.71	16.1	9.4	178	10.2
020495	1203:42	29.195	-94.677	13	19.12	27.75	16.3	9.3	179	10.3
020495	1204:42	29.192	-94.677	14	19.09	27.82	16.3	9.2	178	10.2
020495	1205:43	29.190	-94.678	15	19.07	27.94	16.3	9.3	178	10.5
020495	1206:41	29.187	-94.678	16	19.07	27.89	16.5	9.6	185	10.4
020495	1207:41	29.184	-94.678	18	19.07	28.03	16.8	9.9	189	10.6
020495	1208:42	29.181	-94.679	19	19.04	28.28	16.9	10.0	189	10.4

020495	1209:42	29.178	-94.680	21	19.07	28.04	17.0	10.0	186	10.4
020495	1210:43	29.175	-94.681	23	19.03	27.99	16.7	10.1	187	10.5
020495	1211:41	29.172	-94.682	25	19.03	28.05	16.4	10.2	187	10.6
020495	1212:41	29.170	-94.682	27	19.02	28.07	16.2	10.2	187	10.6
020495	1213:42	29.167	-94.683	29	19.00	28.11	16.1	10.1	186	10.5
020495	1214:42	29.164	-94.684	32	19.00	28.08	16.1	9.9	180	10.3
020495	1215:41	29.161	-94.684	34	19.00	27.85	16.1	9.7	184	10.4
020495	1216:41	29.158	-94.685	38	18.97	27.98	16.2	9.3	182	10.4
020495	1217:42	29.155	-94.685	40	18.97	27.95	16.8	9.1	183	10.4
020495	1218:42	29.152	-94.686	45	18.95	28.04	17.1	9.2	183	10.4
020495	1219:40	29.150	-94.686	46	18.95	28.04	17.0	9.3	185	10.6
020495	1220:41	29.147	-94.687	53	18.94	27.99	16.9	9.3	186	10.5
020495	1221:41	29.144	-94.688	56	18.94	27.98	17.1	9.2	178	10.4
020495	1222:42	29.141	-94.688	56	18.94	27.57	17.0	9.1	180	10.3
020495	1223:40	29.138	-94.689	63	18.93	27.72	17.1	9.1	179	10.4
020495	1224:40	29.135	-94.689	75	18.92	27.81	16.9	9.3	181	10.5
020495	1225:41	29.132	-94.689	82	18.89	28.11	16.5	9.5	181	10.3
020495	1226:41	29.129	-94.690	85	18.89	28.18	16.4	9.3	180	10.3
020495	1227:42	29.127	-94.690	85	18.90	27.87	16.2	9.1	181	10.1
020495	1228:40	29.124	-94.691	99	18.89	27.75	16.3	8.9	180	10.2
020495	1229:41	29.121	-94.691	105	18.87	27.71	16.3	8.6	180	10.3
020495	1230:41	29.118	-94.692	119	18.86	27.48	16.2	8.3	180	10.3
020495	1231:42	29.115	-94.692	113	18.86	27.23	16.7	8.3	181	10.4
020495	1232:40	29.112	-94.693	126	18.85	27.09	16.6	8.5	181	10.3
020495	1233:40	29.110	-94.693	149	18.83	27.08	16.6	8.6	181	10.3
020495	1234:41	29.107	-94.693	156	18.80	27.25	16.5	8.7	181	10.1
020495	1235:41	29.104	-94.694	167	18.77	27.48	16.4	8.6	180	10.1
020495	1236:40	29.101	-94.694	176	18.76	27.67	16.6	8.5	181	10.4
020495	1237:40	29.098	-94.694	177	18.78	27.92	16.5	8.4	181	9.7
020495	1238:40	29.096	-94.695	186	18.84	28.60	16.4	8.4	184	9.8
020495	1239:41	29.093	-94.695	217	18.78	29.79	16.5	8.3	184	10.0
020495	1240:39	29.090	-94.695	246	18.75	30.44	16.5	8.2	184	10.0
020495	1241:40	29.087	-94.696	237	18.75	30.73	16.5	8.0	184	10.0
020495	1242:40	29.085	-94.696	232	18.76	30.91	16.5	8.0	184	10.0
020495	1243:41	29.082	-94.696	290	18.78	30.95	16.5	8.0	183	10.0
020495	1244:41	29.079	-94.697	295	18.77	31.03	16.5	7.8	185	10.1
020495	1245:39	29.076	-94.697	305	18.79	31.03	16.8	7.5	185	9.9
020495	1246:40	29.074	-94.698	303	18.83	31.11	16.8	7.3	185	10.1
020495	1247:40	29.071	-94.698	330	18.93	31.33	16.8	7.4	186	9.9
020495	1248:40	29.068	-94.699	342	19.00	31.47	16.9	7.5	187	9.9
020495	1249:41	29.065	-94.699	351	19.04	31.55	16.9	7.6	187	9.9
020495	1250:39	29.063	-94.700	330	19.06	31.59	16.8	7.6	187	10.1
020495	1251:40	29.060	-94.700	365	19.07	31.61	16.9	7.6	186	10.0
020495	1252:40	29.057	-94.701	380	19.07	31.68	16.8	7.7	185	10.0
020495	1253:41	29.054	-94.701	393	19.09	31.74	16.8	7.7	186	10.1
020495	1254:39	29.052	-94.702	398	19.11	31.76	16.8	7.6	188	10.2
020495	1255:39	29.049	-94.702	413	19.13	31.84	16.8	7.7	188	10.2
020495	1256:40	29.046	-94.703	417	19.13	31.87	16.9	7.7	188	10.0
020495	1257:40	29.043	-94.704	425	19.14	31.95	16.9	7.6	188	10.1
020495	1258:40	29.041	-94.704	442	19.15	32.00	17.0	7.5	188	9.9
020495	1259:39	29.038	-94.705	443	19.18	32.11	17.0	7.4	188	9.9
020495	1300:39	29.035	-94.705	454	19.20	32.14	17.0	7.3	188	9.8
020495	1301:40	29.032	-94.706	463	19.21	32.23	17.0	7.2	187	9.8
020495	1302:40	29.030	-94.706	479	19.21	32.23	17.1	7.2	187	9.7
020495	1303:38	29.027	-94.707	484	19.21	32.27	17.1	7.3	186	9.7
020495	1304:39	29.024	-94.707	492	19.21	32.29	17.1	7.4	185	9.8
020495	1305:39	29.022	-94.707	490	19.19	32.38	17.0	7.4	184	9.9
020495	1306:40	29.019	-94.708	502	19.21	32.32	16.9	7.4	184	9.9
020495	1307:38	29.016	-94.708	506	19.21	32.38	16.9	7.3	183	9.6
020495	1308:39	29.014	-94.708	520	19.23	32.42	17.0	7.2	184	9.8
020495	1309:39	29.011	-94.709	536	19.26	32.43	16.9	7.2	185	9.6
020495	1310:40	29.008	-94.709	533	19.28	32.44	17.0	7.0	185	9.8
020495	1311:40	29.005	-94.709	537	19.30	32.52	17.0	6.9	186	9.7
020495	1312:38	29.003	-94.710	552	19.30	32.50	17.0	7.0	187	9.7
020495	1313:39	29.000	-94.710	555	19.30	32.54	17.1	7.0	186	9.7
020495	1314:39	28.997	-94.711	559	19.28	32.57	17.1	6.9	183	9.5
020495	1315:40	28.995	-94.711	578	19.27	32.60	17.1	7.0	182	9.7
020495	1316:38	28.992	-94.711	578	19.27	32.53	17.1	7.1	183	9.6
020495	1317:38	28.989	-94.711	596	19.28	32.60	17.1	7.2	188	9.9
020495	1318:39	28.987	-94.712	594	19.29	32.61	17.1	7.1	187	9.5
020495	1319:39	28.984	-94.712	602	19.30	32.61	17.1	7.1	187	9.6
020495	1320:38	28.981	-94.713	603	19.28	32.66	17.1	7.1	187	9.6
020495	1321:38	28.979	-94.713	613	19.28	32.65	17.0	7.2	187	9.7
020495	1322:39	28.976	-94.714	627	19.27	32.67	17.1	7.2	187	9.8
020495	1323:39	28.973	-94.714	636	19.28	32.65	17.2	7.2	186	9.7
020495	1324:37	28.971	-94.715	631	19.27	32.65	17.3	7.3	187	9.8
020495	1325:38	28.968	-94.715	636	19.28	32.66	17.2	7.4	189	9.8
020495	1326:38	28.965	-94.716	646	19.25	32.69	17.3	7.5	189	9.6
020495	1327:39	28.963	-94.716	658	19.24	32.66	17.3	7.5	191	9.7
020495	1328:39	28.960	-94.717	648	19.23	32.61	17.3	7.4	190	9.6

020495	1329:37	28.958	-94.717	662	19.24	32.62	17.2	7.3	186	9.5
020495	1330:38	28.955	-94.718	659	19.24	32.61	17.3	7.3	187	9.6
020495	1331:38	28.952	-94.718	667	19.25	32.55	17.2	7.4	187	9.5
020495	1332:39	28.950	-94.719	680	19.27	32.54	17.3	7.5	187	9.6
020495	1333:37	28.947	-94.719	688	19.28	32.55	17.3	7.5	187	9.6
020495	1334:38	28.944	-94.720	684	19.28	32.59	17.3	7.5	187	9.5
020495	1335:38	28.942	-94.720	688	19.29	32.57	17.3	7.5	187	9.6
020495	1336:39	28.939	-94.721	704	19.30	32.51	17.3	7.4	188	9.6
020495	1337:37	28.936	-94.721	697	19.30	32.53	17.3	7.3	187	9.5
020495	1338:37	28.934	-94.721	705	19.30	32.57	17.4	7.3	187	9.6
020495	1339:38	28.931	-94.722	717	19.31	32.53	17.3	7.4	187	9.5
020495	1340:38	28.928	-94.722	719	19.31	32.55	17.4	7.5	187	9.8
020495	1341:36	28.926	-94.723	716	19.31	32.54	17.4	7.4	188	9.5
020495	1342:37	28.923	-94.723	728	19.32	32.53	17.4	7.5	189	9.8
020495	1343:37	28.921	-94.724	737	19.33	32.49	17.4	7.5	191	9.6
020495	1344:38	28.918	-94.725	734	19.32	32.51	17.3	7.6	190	9.6
020495	1345:37	28.915	-94.725	743	19.33	32.52	17.3	7.6	187	9.6
020495	1346:36	28.913	-94.726	741	19.33	32.52	17.4	7.6	186	9.6
020495	1347:37	28.910	-94.726	759	19.32	32.52	17.3	7.5	187	9.6
020495	1348:37	28.907	-94.727	753	19.31	32.55	17.4	7.4	186	9.6
020495	1349:38	28.905	-94.727	762	19.31	32.52	17.4	7.3	187	9.7
020495	1350:36	28.902	-94.728	763	19.31	32.52	17.4	7.1	187	9.7
020495	1351:35	28.899	-94.728	772	19.31	32.51	17.4	7.1	187	9.6
020495	1352:36	28.897	-94.729	763	19.31	32.52	17.4	7.2	186	9.8
020495	1353:37	28.894	-94.729	773	19.32	32.48	17.4	7.3	186	9.8
020495	1354:38	28.891	-94.730	778	19.32	32.53	17.4	7.5	187	9.9
020495	1355:36	28.889	-94.730	775	19.32	32.54	17.5	7.6	188	9.6
020495	1356:36	28.886	-94.731	788	19.32	32.53	17.5	7.8	190	9.7
020495	1357:36	28.883	-94.731	798	19.32	32.54	17.5	8.0	187	9.7
020495	1358:37	28.881	-94.732	794	19.32	32.53	17.6	8.1	187	9.7
020495	1359:35	28.878	-94.732	811	19.34	32.53	17.6	8.0	187	9.8
020495	1400:35	28.875	-94.733	799	19.34	32.57	17.6	7.8	187	9.7
020495	1401:36	28.873	-94.733	800	19.32	32.59	17.6	7.7	187	9.9
020495	1402:36	28.870	-94.734	812	19.33	32.55	17.6	7.4	188	9.9
020495	1403:35	28.867	-94.734	815	19.33	32.59	17.7	7.2	189	9.8
020495	1404:35	28.865	-94.735	817	19.33	32.59	17.6	7.2	191	9.8
020495	1405:35	28.862	-94.736	813	19.34	32.61	17.6	7.3	190	9.8
020495	1406:36	28.859	-94.736	813	19.36	32.61	17.7	7.3	186	9.8
020495	1407:34	28.857	-94.737	821	19.36	32.63	17.6	7.3	186	9.7
020495	1408:35	28.854	-94.737	832	19.38	32.62	17.7	7.3	187	9.8
020495	1409:35	28.851	-94.738	830	19.40	32.62	17.7	7.2	187	9.7
020495	1410:36	28.849	-94.738	833	19.40	32.62	17.7	7.2	187	9.8
020495	1411:36	28.846	-94.738	837	19.42	32.61	17.7	7.2	188	9.9
020495	1412:34	28.843	-94.739	835	19.41	32.67	17.7	7.2	189	9.9
020495	1413:35	28.841	-94.740	838	19.42	32.63	17.7	7.3	189	10.1
020495	1414:35	28.838	-94.740	847	19.43	32.62	17.7	7.4	187	10.1
020495	1415:36	28.835	-94.741	841	19.43	32.62	17.8	7.4	186	10.1
020495	1416:34	28.832	-94.741	855	19.45	32.60	17.8	7.4	187	10.1
020495	1417:35	28.829	-94.742	856	19.44	32.64	17.8	7.3	186	10.1
020495	1418:35	28.827	-94.742	846	19.46	32.63	17.9	7.3	185	10.3
020495	1419:35	28.824	-94.742	848	19.46	32.66	17.8	7.3	176	7.6
020495	1420:34	28.822	-94.742	862	19.46	32.67	17.8	7.3	177	5.7
020495	1421:34	28.821	-94.743	859	19.46	32.65	17.8	7.3	181	4.7
020495	1422:35	28.820	-94.743	865	19.45	32.66	17.8	7.1	179	3.8
020495	1423:35	28.819	-94.743	874	19.46	32.61	17.9	7.0	175	3.8
020495	1424:36	28.818	-94.743	869	19.47	32.63	17.9	7.0	171	3.6
020495	1425:34	28.817	-94.743	868	19.46	32.64	17.9	7.1	174	3.1
020495	1426:34	28.816	-94.743	878	19.46	32.64	17.9	7.2	172	3.2
020495	1427:35	28.815	-94.743	872	19.44	32.65	17.9	7.3	166	4.4
020495	1428:35	28.813	-94.743	880	19.42	32.62	18.0	7.5	152	6.2
020495	1429:34	28.812	-94.742	882	19.41	32.61	18.1	7.6	147	6.8
020495	1430:34	28.810	-94.741	884	19.37	32.62	18.1	7.6	148	7.1
020495	1431:35	28.808	-94.740	883	19.36	32.62	18.2	7.6	185	7.3
020495	1432:35	28.807	-94.741	906	19.33	32.61	18.0	7.5	244	3.7
020495	1433:33	28.806	-94.742	899	19.32	32.62	18.1	7.4	216	3.7
020495	1434:34	28.806	-94.743	883	19.33	32.63	18.1	7.4	221	4.0
020495	1435:34	28.805	-94.743	896	19.32	32.60	18.0	7.4	216	2.7
020495	1436:35	28.804	-94.744	916	19.31	32.62	18.2	7.5	309	3.3
020495	1437:33	28.805	-94.745	926	19.30	32.63	18.0	7.7	329	4.4
020495	1438:33	28.806	-94.746	927	19.32	32.60	17.9	8.1	360	5.6
020495	1439:34	28.807	-94.746	918	19.33	32.66	17.5	8.2	50	3.7
020495	1440:34	28.808	-94.746	912	19.34	32.62	17.4	8.3	62	2.3
020495	1441:35	28.808	-94.745	918	19.33	32.66	17.4	8.3	61	0.5
020495	1442:33	28.808	-94.745	945	19.35	32.63	17.4	8.2	317	1.6
020495	1443:34	28.808	-94.746	937	19.35	32.64	17.9	8.0	278	4.1
020495	1444:34	28.808	-94.747	942	19.33	32.66	18.0	7.9	273	6.8
020495	1445:35	28.808	-94.749	948	19.34	32.63	18.2	7.7	284	5.0
020495	1446:33	28.809	-94.751	951	19.36	32.64	18.4	7.6	293	3.6
020495	1447:33	28.809	-94.752	960	19.36	32.64	18.3	7.4	4	2.9
020495	1448:34	28.809	-94.752	944	19.35	32.63	17.6	7.6	47	1.6

020495	1449:34	28.810	-94.752	943	19.37	32.61	17.5	7.8	53	1.6
020495	1450:32	28.810	-94.751	944	19.37	32.60	17.5	8.0	57	2.1
020495	1451:33	28.810	-94.751	947	19.38	32.60	17.5	7.8	48	2.3
020495	1452:33	28.811	-94.751	968	19.38	32.62	17.5	7.7	335	1.6
020495	1453:34	28.811	-94.751	961	19.39	32.59	17.9	7.7	263	3.6
020495	1454:32	28.811	-94.752	968	19.40	32.62	18.2	7.6	273	4.5
020495	1455:33	28.811	-94.754	968	19.41	32.59	18.4	7.5	273	5.0
020495	1456:33	28.811	-94.755	969	19.40	32.61	18.6	7.4	275	5.3
020495	1457:34	28.811	-94.757	973	19.40	32.62	18.5	7.5	260	3.2
020495	1458:34	28.811	-94.758	956	19.41	32.62	18.5	7.6	163	1.2
020495	1459:32	28.811	-94.758	817	19.42	32.64	18.6	7.5	105	1.3
020495	1500:33	28.811	-94.758	936	19.42	32.62	17.9	7.4	96	1.2
020495	1501:33	28.811	-94.759	935	19.44	32.59	17.6	7.4	90	1.3
020495	1502:34	28.811	-94.759	947	19.44	32.59	17.6	7.5	77	1.3
020495	1503:32	28.811	-94.760	958	19.43	32.61	17.5	7.5	65	1.0
020495	1504:32	28.811	-94.760	961	19.44	32.58	17.6	7.4	63	0.7
020495	1505:33	28.811	-94.760	964	19.44	32.59	17.5	7.4	67	0.4
020495	1506:33	28.811	-94.760	961	19.45	32.60	17.5	7.4	75	0.1
020495	1507:32	28.811	-94.760	927	19.45	32.59	17.5	7.4	82	0.5
020495	1508:32	28.811	-94.760	948	19.45	32.59	17.5	7.3	83	0.1
020495	1509:33	28.811	-94.760	966	19.45	32.62	17.5	7.3	77	0.3
020495	1510:33	28.811	-94.760	971	19.44	32.64	17.5	7.3	71	0.5
020495	1511:31	28.811	-94.760	975	19.45	32.62	17.6	7.2	71	0.3
020495	1512:32	28.811	-94.760	974	19.44	32.62	17.6	7.2	73	0.3
020495	1513:32	28.811	-94.760	977	19.45	32.61	17.6	7.1	74	0.2
020495	1514:33	28.811	-94.760	980	19.46	32.61	17.6	7.1	73	0.4
020495	1515:33	28.811	-94.760	979	19.46	32.59	17.6	7.2	76	0.2
020495	1516:32	28.811	-94.760	980	19.46	32.58	17.6	7.2	78	0.8
020495	1517:32	28.811	-94.760	978	19.47	32.61	17.6	7.2	79	0.7
020495	1518:32	28.811	-94.760	981	19.47	32.61	17.6	7.2	79	0.2
020495	1519:33	28.811	-94.760	984	19.46	32.62	17.6	7.3	75	0.6
020495	1520:31	28.811	-94.760	987	19.48	32.60	17.6	7.3	75	0.3
020495	1521:32	28.811	-94.760	987	19.46	32.62	17.7	7.2	76	0.6
020495	1522:32	28.811	-94.760	988	19.48	32.62	17.6	7.2	76	0.2
020495	1523:33	28.811	-94.760	989	19.48	32.61	17.6	7.1	77	0.3
020495	1524:31	28.811	-94.760	987	19.48	32.62	17.6	7.0	78	0.6
020495	1525:31	28.811	-94.760	984	19.48	32.59	17.6	6.9	80	0.2
020495	1526:32	28.811	-94.760	962	19.49	32.62	17.6	6.8	79	0.2
020495	1527:32	28.811	-94.760	990	19.48	32.61	17.6	6.8	77	0.1
020495	1528:33	28.811	-94.760	993	19.49	32.61	17.6	6.9	76	0.2
020495	1529:31	28.811	-94.760	994	19.49	32.62	17.6	6.9	76	0.2
020495	1530:31	28.811	-94.760	995	19.50	32.61	17.6	6.8	79	0.1
020495	1531:32	28.811	-94.760	996	19.49	32.62	17.6	6.9	79	0.1
020495	1532:32	28.811	-94.760	996	19.50	32.60	17.6	6.8	76	0.4
020495	1533:31	28.811	-94.760	1000	19.50	32.62	17.6	6.8	77	0.3
020495	1534:31	28.811	-94.760	999	19.50	32.63	17.6	6.7	80	0.1
020495	1535:31	28.811	-94.760	997	19.51	32.61	17.6	6.8	82	0.5
020495	1536:32	28.811	-94.760	1000	19.51	32.61	17.6	7.1	79	0.1
020495	1537:32	28.811	-94.760	1005	19.51	32.61	17.6	7.2	75	0.5
020495	1538:31	28.811	-94.760	1004	19.52	32.62	17.7	7.1	75	0.1
020495	1539:31	28.811	-94.760	1004	19.53	32.62	17.7	7.0	77	0.1
020495	1540:31	28.811	-94.760	1004	19.53	32.62	17.6	6.8	75	0.2
020495	1541:32	28.811	-94.760	1006	19.53	32.62	17.7	6.8	75	0.4
020495	1542:30	28.811	-94.760	1006	19.53	32.63	17.7	6.6	78	0.1
020495	1543:31	28.811	-94.760	1006	19.53	32.63	17.7	6.4	80	0.1
020495	1544:31	28.811	-94.760	1007	19.54	32.63	17.7	6.4	76	0.1
020495	1545:31	28.811	-94.760	1012	19.55	32.61	17.7	6.6	74	0.3
020495	1546:32	28.811	-94.760	1011	19.54	32.61	17.7	6.8	76	0.1
020495	1547:30	28.811	-94.760	1013	19.54	32.62	17.8	7.0	78	0.2
020495	1548:31	28.811	-94.760	1015	19.54	32.63	17.7	7.1	77	0.1
020495	1549:31	28.811	-94.760	1017	19.54	32.62	17.7	7.0	75	0.1
020495	1550:31	28.811	-94.760	1017	19.56	32.61	17.7	6.9	79	0.4
020495	1551:30	28.811	-94.760	1013	19.56	32.61	17.8	6.8	80	0.3
020495	1552:30	28.811	-94.760	1018	19.56	32.62	17.7	6.8	79	0.2
020495	1553:31	28.811	-94.760	1020	19.57	32.62	17.9	6.8	76	0.3
020495	1554:31	28.811	-94.760	1020	19.57	32.62	17.8	6.7	75	0.1
020495	1555:29	28.811	-94.760	1020	19.57	32.61	17.6	6.9	73	0.4
020495	1556:30	28.811	-94.760	1021	19.57	32.62	17.7	6.9	75	0.2
020495	1557:30	28.811	-94.760	1015	19.57	32.61	17.7	6.8	75	0.5
020495	1558:31	28.811	-94.760	1014	19.58	32.59	17.7	6.9	76	0.4
020495	1559:31	28.811	-94.760	1022	19.58	32.60	17.7	7.1	79	0.7
020495	1600:30	28.811	-94.760	1020	19.58	32.61	17.7	7.3	89	1.0
020495	1601:30	28.811	-94.759	1019	19.59	32.60	18.2	7.1	120	0.8
020495	1602:31	28.811	-94.759	1023	19.59	32.61	18.9	6.8	133	0.5
020495	1603:31	28.811	-94.759	1025	19.60	32.60	18.2	6.5	75	0.5
020495	1604:29	28.811	-94.759	1033	19.61	32.59	17.9	6.4	40	0.4
020495	1605:30	28.811	-94.759	1022	19.59	32.62	17.8	6.4	43	0.5
020495	1606:30	28.811	-94.759	1037	19.56	32.66	17.8	6.3	66	0.5
020495	1607:31	28.811	-94.759	1014	19.57	32.65	17.7	6.7	82	0.8
020495	1608:29	28.811	-94.759	988	19.58	32.63	17.7	6.9	91	1.2

020495	1609:29	28.811	-94.759	994	19.58	32.64	18.4	7.0	125	1.0
020495	1610:30	28.811	-94.759	1030	19.60	32.63	19.0	7.0	135	0.3
020495	1611:30	28.811	-94.759	998	19.63	32.61	19.2	6.8	101	0.8
020495	1612:29	28.811	-94.759	1031	19.62	32.60	18.0	6.6	75	0.7
020495	1613:29	28.811	-94.759	1016	19.61	32.62	17.9	6.5	58	0.2
020495	1614:30	28.811	-94.759	922	19.56	32.68	17.8	6.8	138	0.4
020495	1615:30	28.811	-94.759	962	19.57	32.69	18.4	6.8	228	0.4
020495	1616:31	28.811	-94.759	979	19.58	32.67	18.6	6.7	238	1.0
020495	1617:29	28.811	-94.759	1016	19.60	32.62	18.8	6.5	246	1.0
020495	1618:29	28.811	-94.758	989	19.61	32.62	19.0	6.3	252	0.9
020495	1619:30	28.812	-94.758	1012	19.61	32.64	19.2	6.3	264	0.9
020495	1620:30	28.811	-94.758	1038	19.58	32.67	19.0	6.4	264	0.2
020495	1621:28	28.811	-94.758	1022	19.60	32.61	19.1	6.6	201	0.9
020495	1622:29	28.812	-94.758	1050	19.59	32.64	19.3	6.8	209	0.7
020495	1623:29	28.812	-94.758	1065	19.56	32.68	19.0	6.7	233	3.7
020495	1624:30	28.813	-94.758	1054	19.59	32.64	18.9	6.7	192	1.6
020495	1625:28	28.813	-94.758	689	19.59	32.61	19.0	6.9	95	0.7
020495	1626:29	28.813	-94.758	1052	19.63	32.62	18.0	7.2	34	0.5
020495	1627:29	28.813	-94.758	1056	19.63	32.60	17.8	7.5	26	0.8
020495	1628:30	28.813	-94.758	1056	19.61	32.63	17.7	7.6	38	0.6
020495	1629:28	28.813	-94.758	1049	19.60	32.63	17.8	7.5	57	0.6
020495	1630:28	28.813	-94.758	1050	19.59	32.62	17.7	7.4	78	0.8
020495	1631:29	28.813	-94.758	1021	19.61	32.65	17.7	7.2	96	0.3
020495	1632:29	28.813	-94.758	1006	19.63	32.64	17.7	7.0	105	0.1
020495	1633:30	28.813	-94.758	1027	19.67	32.61	17.7	6.9	108	0.3
020495	1634:28	28.813	-94.758	1038	19.67	32.63	17.7	7.0	104	0.3
020495	1635:28	28.813	-94.758	930	19.66	32.64	17.7	7.0	94	0.5
020495	1636:29	28.813	-94.758	1000	19.65	32.64	17.8	6.9	78	0.7
020495	1637:29	28.813	-94.758	1055	19.63	32.61	17.7	6.9	57	0.8
020495	1638:28	28.813	-94.759	1058	19.62	32.61	17.7	6.8	34	1.0
020495	1639:28	28.814	-94.758	1050	19.61	32.69	17.7	6.7	36	3.7
020495	1640:29	28.815	-94.758	824	19.63	32.64	17.6	6.6	52	3.3
020495	1641:29	28.815	-94.758	1041	19.64	32.64	17.6	6.7	84	0.8
020495	1642:27	28.815	-94.758	1051	19.63	32.65	17.6	6.8	100	0.3
020495	1643:28	28.815	-94.758	1019	19.66	32.63	17.6	6.8	100	0.2
020495	1644:28	28.815	-94.758	1030	19.67	32.64	17.6	6.8	93	0.3
020495	1645:29	28.815	-94.758	1062	19.68	32.62	17.6	6.8	83	0.3
020495	1646:26	28.815	-94.757	1030	19.69	32.63	17.6	6.8	102	1.5
020495	1647:27	28.815	-94.757	1027	19.68	32.63	17.9	6.7	116	1.2
020495	1648:28	28.815	-94.757	1049	19.68	32.64	19.2	6.4	133	1.2
020495	1649:28	28.814	-94.757	1048	19.68	32.64	19.3	6.3	146	1.4
020495	1650:29	28.814	-94.756	1061	19.68	32.64	19.3	6.3	157	1.5
020495	1651:27	28.813	-94.756	1068	19.68	32.65	19.3	6.3	165	1.8
020495	1652:28	28.813	-94.757	1071	19.68	32.66	19.3	6.3	165	1.5
020495	1653:28	28.813	-94.757	1073	19.70	32.63	19.3	6.3	167	1.5
020495	1654:29	28.812	-94.757	1072	19.70	32.65	19.3	6.3	169	1.2
020495	1655:26	28.812	-94.757	1075	19.72	32.63	19.3	6.4	177	2.9
020495	1656:26	28.811	-94.757	1074	19.73	32.63	19.3	6.5	194	5.4
020495	1657:28	28.809	-94.758	1082	19.71	32.61	19.1	6.5	228	6.1
020495	1658:28	28.808	-94.760	1077	19.68	32.60	19.3	6.3	225	6.2
020495	1659:26	28.807	-94.761	1072	19.67	32.63	19.2	6.2	220	4.0
020495	1700:26	28.807	-94.762	1035	19.66	32.66	19.2	6.3	204	2.7
020495	1701:26	28.806	-94.762	934	19.68	32.65	19.2	6.3	190	1.8
020495	1702:27	28.806	-94.762	939	19.70	32.67	19.2	6.5	179	1.6
020495	1703:27	28.805	-94.763	937	19.71	32.65	19.3	6.6	170	1.3
020495	1704:26	28.805	-94.763	989	19.72	32.64	19.3	6.8	167	1.2
020495	1705:26	28.805	-94.763	1046	19.73	32.63	19.3	6.8	168	1.4
020495	1706:27	28.805	-94.764	1058	19.73	32.65	19.2	6.8	172	1.3
020495	1707:27	28.805	-94.764	1038	19.72	32.65	19.1	6.7	177	1.6
020495	1708:25	28.805	-94.764	1046	19.72	32.65	19.1	6.5	185	1.2
020495	1709:26	28.805	-94.764	1025	19.72	32.65	18.9	6.3	195	1.1
020495	1710:26	28.804	-94.765	1019	19.72	32.65	18.8	6.2	203	0.4
020495	1711:27	28.804	-94.765	1059	19.72	32.66	18.8	6.3	212	0.5
020495	1712:25	28.804	-94.765	1067	19.72	32.66	18.9	6.5	220	0.8
020495	1713:26	28.804	-94.766	1079	19.72	32.66	18.8	7.0	225	1.3
020495	1714:26	28.804	-94.766	1082	19.73	32.65	18.8	7.2	228	0.2
020495	1715:26	28.804	-94.766	1079	19.74	32.65	18.9	7.2	232	0.7
020495	1716:25	28.804	-94.766	1079	19.74	32.66	18.9	7.2	235	0.6
020495	1717:25	28.804	-94.767	1082	19.75	32.64	19.0	7.1	237	0.8
020495	1718:26	28.805	-94.767	1082	19.75	32.65	19.1	7.0	240	0.6
020495	1719:26	28.805	-94.767	1083	19.78	32.61	19.4	7.1	241	1.0
020495	1720:27	28.804	-94.768	1057	19.76	32.65	19.1	7.1	284	3.5
020495	1721:25	28.805	-94.769	1070	19.76	32.67	18.5	7.2	337	5.7
020495	1722:25	28.807	-94.770	1086	19.78	32.59	17.9	7.3	334	8.9
020495	1723:26	28.809	-94.772	1095	19.71	32.65	17.8	7.4	332	9.4
020495	1724:26	28.811	-94.773	1097	19.67	32.67	17.7	7.5	331	9.9
020495	1725:25	28.813	-94.775	1085	19.67	32.66	17.7	7.7	338	10.0
020495	1726:25	28.816	-94.776	1091	19.66	32.67	17.6	7.7	338	9.6
020495	1727:26	28.818	-94.778	1093	19.67	32.67	17.6	7.8	338	9.7
020495	1728:26	28.821	-94.779	1094	19.68	32.66	17.6	7.8	337	9.6

1628Z: do CTD/rosette cast

020495	1729:24	28.823	-94.780	1097	19.68	32.67	17.6	7.7	336	9.6
020495	1730:25	28.825	-94.782	1100	19.68	32.66	17.7	7.5	335	9.9
020495	1731:25	28.828	-94.783	1100	19.67	32.67	17.6	7.5	335	9.8
020495	1732:26	28.830	-94.784	1096	19.68	32.66	17.6	7.5	339	9.9
020495	1733:24	28.833	-94.786	1106	19.65	32.65	17.6	7.5	338	9.6
020495	1734:24	28.835	-94.787	1110	19.67	32.65	17.6	7.4	335	9.4
020495	1735:25	28.838	-94.788	1095	19.67	32.67	17.6	7.4	334	9.7
020495	1736:25	28.840	-94.790	1090	19.69	32.65	17.6	7.3	339	9.8
020495	1737:26	28.843	-94.791	1068	19.70	32.63	17.6	7.1	336	9.7
020495	1738:24	28.845	-94.792	1082	19.70	32.63	17.6	7.0	335	9.8
020495	1739:25	28.847	-94.794	1095	19.68	32.66	17.6	6.9	338	9.6
020495	1740:25	28.850	-94.795	1094	19.69	32.69	17.6	6.9	337	10.0
020495	1741:26	28.853	-94.796	1092	19.68	32.66	17.6	6.9	337	10.0
020495	1742:24	28.855	-94.797	1091	19.69	32.66	17.7	6.8	334	9.8
020495	1743:24	28.857	-94.799	1093	19.71	32.67	17.7	6.8	333	9.9
020495	1744:25	28.860	-94.800	1092	19.73	32.69	17.6	6.9	332	9.9
020495	1745:25	28.862	-94.802	1092	19.73	32.67	17.6	7.0	333	9.7
020495	1746:23	28.865	-94.803	1080	19.74	32.67	17.6	7.1	333	10.2
020495	1747:24	28.867	-94.805	1082	19.77	32.66	17.6	7.0	333	10.0
020495	1748:24	28.870	-94.806	1065	19.76	32.71	17.6	7.0	333	9.8
020495	1749:25	28.872	-94.808	1073	19.76	32.69	17.6	7.1	332	9.8
020495	1750:23	28.875	-94.809	1074	19.75	32.68	17.6	7.3	332	9.7
020495	1751:24	28.877	-94.810	1073	19.72	32.68	17.6	7.3	332	9.7
020495	1752:24	28.879	-94.812	1077	19.69	32.70	17.6	7.1	333	9.8
020495	1753:25	28.882	-94.813	1085	19.67	32.71	17.6	7.0	332	9.9
020495	1754:25	28.884	-94.815	1087	19.66	32.68	17.6	6.9	333	9.8
020495	1755:23	28.887	-94.816	1089	19.66	32.68	17.6	6.7	334	10.1
020495	1756:24	28.889	-94.817	1093	19.65	32.69	17.7	6.6	334	9.8
020495	1757:24	28.892	-94.819	1027	19.62	32.69	17.6	6.6	334	9.8
020495	1758:25	28.894	-94.820	1068	19.58	32.70	17.5	6.8	333	9.9
020495	1759:23	28.897	-94.822	1071	19.53	32.70	17.5	7.0	333	9.8
020495	1800:23	28.899	-94.823	1079	19.51	32.68	17.6	7.2	333	10.0
020495	1801:24	28.901	-94.824	1091	19.50	32.70	17.5	7.3	332	9.7
020495	1802:24	28.904	-94.826	1090	19.47	32.69	17.5	7.4	333	9.9
020495	1803:23	28.906	-94.827	1090	19.47	32.69	17.5	7.5	334	9.8
020495	1804:23	28.909	-94.829	1088	19.46	32.69	17.5	7.5	334	9.7
020495	1805:24	28.911	-94.830	1087	19.42	32.69	17.5	7.5	334	9.6
020495	1806:24	28.914	-94.831	1087	19.39	32.69	17.6	7.4	333	9.7
020495	1807:22	28.916	-94.833	1087	19.38	32.67	17.5	7.4	334	9.7
020495	1808:23	28.918	-94.834	1086	19.38	32.70	17.5	7.4	334	9.9
020495	1809:23	28.921	-94.835	1085	19.40	32.70	17.5	7.4	335	9.8
020495	1810:24	28.923	-94.837	1085	19.40	32.72	17.6	7.3	334	9.7
020495	1811:24	28.926	-94.838	1084	19.40	32.68	17.5	7.3	335	9.8
020495	1812:22	28.928	-94.839	1080	19.39	32.74	17.5	7.3	334	9.7
020495	1813:23	28.931	-94.841	1082	19.40	32.72	17.5	7.2	334	9.7
020495	1814:23	28.933	-94.842	1083	19.41	32.73	17.5	7.2	334	9.7
020495	1815:24	28.936	-94.844	1085	19.41	32.76	17.5	7.1	334	9.8
020495	1816:24	28.938	-94.845	1085	19.41	32.77	17.4	7.0	334	9.8
020495	1817:22	28.940	-94.846	1085	19.41	32.80	17.4	7.1	334	9.8
020495	1818:23	28.943	-94.848	1086	19.40	32.81	17.4	7.2	334	9.9
020495	1819:23	28.945	-94.849	1085	19.37	32.85	17.4	7.3	334	9.9
020495	1820:23	28.948	-94.851	1088	19.36	32.85	17.4	7.4	333	9.8
020495	1821:22	28.950	-94.852	1086	19.37	32.84	17.4	7.7	334	9.9
020495	1822:22	28.952	-94.854	1085	19.38	32.86	17.4	7.9	334	9.9
020495	1823:23	28.955	-94.855	1085	19.39	32.87	17.4	8.0	333	10.0
020495	1824:23	28.957	-94.857	1084	19.41	32.88	17.4	7.9	334	10.1
020495	1825:24	28.960	-94.858	1082	19.46	32.87	17.4	7.8	334	9.9
020495	1826:22	28.962	-94.860	1082	19.44	32.85	17.4	7.8	333	9.9
020495	1827:22	28.965	-94.861	1082	19.50	32.86	17.4	7.7	335	10.0
020495	1828:22	28.967	-94.863	1082	19.49	32.69	17.5	7.7	334	10.0
020495	1829:23	28.969	-94.864	1080	19.41	32.54	17.4	7.6	336	10.0
020495	1830:23	28.972	-94.866	1081	19.37	32.44	17.4	7.5	337	9.9
020495	1831:21	28.974	-94.867	1081	19.36	32.36	17.4	7.5	338	9.8
020495	1832:22	28.977	-94.869	1082	19.41	32.33	17.4	7.5	336	9.8
020495	1833:22	28.979	-94.870	1082	19.49	32.15	17.4	7.6	336	9.8
020495	1834:23	28.982	-94.872	1079	19.40	31.95	17.4	7.6	338	9.8
020495	1835:23	28.984	-94.873	1062	19.32	31.75	17.4	7.7	339	9.7
020495	1836:22	28.986	-94.874	973	19.21	31.60	17.4	7.8	339	9.7
020495	1837:22	28.989	-94.876	1049	19.18	31.52	17.4	7.8	338	9.8
020495	1838:22	28.991	-94.877	1060	19.13	31.46	17.4	7.7	336	9.8
020495	1839:23	28.994	-94.879	1054	19.12	31.42	17.4	7.7	335	9.8
020495	1840:21	28.996	-94.880	1062	19.20	31.40	17.3	7.8	334	9.8
020495	1841:22	28.998	-94.882	1074	19.19	31.29	17.3	7.9	334	9.9
020495	1842:22	29.001	-94.884	1081	19.03	31.26	17.3	7.9	334	9.9
020495	1843:23	29.003	-94.885	1086	18.90	31.22	17.4	7.9	338	9.9
020495	1844:21	29.005	-94.887	1089	18.86	31.17	17.3	7.8	342	9.6
020495	1845:21	29.008	-94.888	1084	18.84	31.11	17.3	7.8	338	9.9
020495	1846:22	29.010	-94.889	1082	18.84	31.04	17.3	7.7	340	9.7
020495	1847:22	29.013	-94.891	1077	18.83	30.97	17.3	7.5	340	9.9
020495	1848:21	29.015	-94.892	1079	18.86	30.94	17.3	7.4	340	9.7

020495	1849:21	29.018	-94.893	1078	18.90	30.86	17.3	7.4	340	9.7
020495	1850:22	29.020	-94.894	1080	18.92	30.80	17.4	7.3	340	9.8
020495	1851:22	29.023	-94.896	1080	18.97	30.76	17.3	7.4	340	9.7
020495	1852:22	29.025	-94.897	1081	18.98	30.73	17.3	7.5	340	9.8
020495	1853:21	29.028	-94.898	1078	19.01	30.67	17.3	7.4	340	9.8
020495	1854:21	29.030	-94.900	1078	19.00	30.65	17.3	7.4	340	9.8
020495	1855:22	29.033	-94.901	1076	19.07	30.57	17.3	7.3	340	9.8
020495	1856:22	29.035	-94.902	1079	19.14	30.49	17.4	7.2	340	9.9
020495	1857:20	29.038	-94.903	1078	19.16	30.45	17.4	7.3	340	10.0
020495	1858:21	29.040	-94.905	1079	19.15	30.40	17.4	7.3	341	9.8
020495	1859:21	29.043	-94.906	1078	19.15	30.37	17.4	7.2	342	9.7
020495	1900:22	29.045	-94.907	1078	19.16	30.34	17.4	7.0	342	9.6
020495	1901:20	29.048	-94.908	1078	19.17	30.31	17.4	6.9	341	9.8
020495	1902:21	29.050	-94.909	1078	19.21	30.30	17.4	6.9	338	9.9
020495	1903:21	29.053	-94.911	1078	19.21	30.25	17.4	7.0	338	9.9
020495	1904:22	29.055	-94.912	1080	19.22	30.24	17.5	6.9	338	10.0
020495	1905:20	29.058	-94.913	1083	19.22	30.22	17.5	6.8	338	9.8
020495	1906:20	29.060	-94.915	1084	19.25	30.17	17.4	6.8	339	7.6
020495	1907:21	29.061	-94.915	1088	19.26	30.12	17.4	6.9	358	4.7
020495	1908:21	29.063	-94.916	1091	19.33	30.07	17.4	7.2	9	3.3
020495	1909:22	29.063	-94.916	1090	19.39	30.09	17.5	7.3	357	2.9
020495	1910:20	29.064	-94.916	1090	19.39	30.06	17.5	7.4	357	2.9
020495	1911:20	29.065	-94.916	1092	19.37	30.04	17.4	7.4	2	2.3
020495	1912:21	29.066	-94.916	1093	19.41	30.02	17.4	7.5	2	2.0
020495	1913:21	29.066	-94.916	1092	19.43	29.98	17.4	7.6	6	1.6
020495	1914:20	29.066	-94.917	1077	19.45	30.00	17.4	7.4	16	1.3
020495	1915:20	29.066	-94.917	1053	19.48	29.96	17.4	7.4	33	0.6
020495	1916:21	29.067	-94.917	1069	19.50	29.94	17.5	7.3	43	0.3
020495	1917:21	29.067	-94.917	1071	19.51	29.93	17.5	7.3	44	0.2
020495	1918:19	29.067	-94.917	1068	19.51	29.92	17.5	7.3	39	0.2
020495	1919:20	29.067	-94.917	1069	19.53	29.91	17.4	7.2	28	0.8
020495	1920:20	29.067	-94.917	1068	19.54	29.90	17.5	7.1	20	0.2
020495	1921:21	29.067	-94.918	1077	19.55	29.90	17.5	7.3	10	0.7
020495	1922:19	29.067	-94.918	1082	19.55	29.90	17.4	7.7	3	0.3
020495	1923:19	29.067	-94.918	1084	19.56	29.89	17.5	7.9	358	0.8
020495	1924:20	29.067	-94.918	1083	19.58	29.89	17.4	8.0	355	0.8
020495	1925:20	29.067	-94.918	1081	19.57	29.88	17.4	7.9	352	0.5
020495	1926:21	29.067	-94.919	1083	19.58	29.88	17.4	7.9	47	2.3
020495	1927:19	29.068	-94.918	1064	19.60	29.88	18.5	7.6	139	3.9
020495	1928:20	29.066	-94.917	1049	19.62	29.87	18.8	7.2	157	7.8
020495	1929:20	29.064	-94.916	1048	19.56	29.87	18.9	6.8	156	9.2
020495	1930:21	29.062	-94.915	1047	19.49	29.94	19.0	6.4	156	9.4
020495	1931:19	29.059	-94.914	1042	19.47	29.98	18.9	6.2	174	9.7
020495	1932:19	29.057	-94.914	1038	19.45	30.06	18.8	6.2	169	9.6
020495	1933:20	29.054	-94.913	1038	19.45	30.10	18.8	6.2	167	9.8
020495	1934:20	29.051	-94.913	1038	19.50	30.13	18.8	6.3	167	9.9
020495	1935:18	29.049	-94.912	1038	19.55	30.16	18.8	6.5	167	9.7
020495	1936:19	29.046	-94.912	1037	19.51	30.22	18.8	6.7	167	9.6
020495	1937:19	29.043	-94.912	1037	19.51	30.24	18.8	6.8	167	9.8
020495	1938:20	29.041	-94.911	1036	19.50	30.23	18.7	6.9	167	9.7
020495	1939:18	29.038	-94.911	1036	19.50	30.27	18.8	6.8	167	9.8
020495	1940:19	29.035	-94.910	1035	19.50	30.31	18.9	6.7	167	9.8
020495	1941:19	29.033	-94.910	1034	19.49	30.31	18.8	6.8	167	9.6
020495	1942:20	29.030	-94.909	1033	19.49	30.35	18.9	6.8	167	9.7
020495	1943:20	29.027	-94.909	1032	19.49	30.35	18.8	6.9	166	9.5
020495	1944:18	29.025	-94.908	1031	19.50	30.36	18.8	7.1	167	9.7
020495	1945:19	29.022	-94.908	1032	19.42	30.42	18.8	7.0	167	9.8
020495	1946:19	29.019	-94.907	1031	19.45	30.42	18.8	7.0	168	9.8
020495	1947:20	29.017	-94.907	1032	19.46	30.49	18.9	7.0	167	9.9
020495	1948:18	29.014	-94.906	1032	19.45	30.52	18.9	7.1	167	9.6
020495	1949:18	29.011	-94.906	1031	19.42	30.56	18.9	7.1	167	9.6
020495	1950:19	29.009	-94.906	1030	19.45	30.56	18.9	7.2	166	9.7
020495	1951:19	29.006	-94.905	1031	19.43	30.58	18.9	7.3	167	9.7
020495	1952:18	29.003	-94.905	1031	19.37	30.66	18.9	7.2	167	9.8
020495	1953:18	29.001	-94.904	1031	19.38	30.70	18.9	6.9	167	9.7
020495	1954:19	28.998	-94.904	1030	19.29	30.81	18.8	6.8	167	9.8
020495	1955:19	28.995	-94.903	1030	19.23	30.85	18.8	6.8	167	9.8
020495	1956:16	28.993	-94.903	1030	19.19	30.95	18.8	6.8	167	9.7
020495	1957:18	28.990	-94.903	1030	19.23	31.08	18.9	6.8	167	9.8
020495	1958:17	28.987	-94.902	1029	19.33	31.13	18.8	6.8	167	9.9
020495	1959:19	28.984	-94.902	1030	19.41	31.18	18.8	6.8	166	9.9
020495	2000:18	28.982	-94.902	1030	19.38	31.26	18.8	6.9	166	8.0
020495	2001:17	28.980	-94.901	1050	19.37	31.32	19.2	7.0	93	3.3
020495	2002:17	28.980	-94.900	1058	19.42	31.30	17.6	7.1	66	1.3
020495	2003:17	28.980	-94.900	1058	19.45	31.29	17.5	7.2	28	0.5
020495	2004:19	28.980	-94.900	1058	19.48	31.27	17.4	7.7	2	0.8
020495	2005:16	28.980	-94.901	1054	19.48	31.26	17.4	8.3	352	1.0
020495	2006:17	28.980	-94.901	1054	19.48	31.29	17.5	8.5	359	0.9
020495	2007:17	28.981	-94.901	1058	19.47	31.31	17.4	8.5	10	1.3
020495	2008:18	28.981	-94.902	1060	19.48	31.32	17.4	8.5	17	1.4

1914Z: do CTD/rosette cast

1947Z: NOAA-14 AVHRR MCSST
overflight: SST file
was processed by LS
Earth Sean Lab

020495	2009:16	28.981	-94.902	1062	19.48	31.32	17.4	8.4	21	0.9
020495	2010:16	28.981	-94.902	1062	19.47	31.32	17.4	8.3	22	1.1
020495	2011:17	28.981	-94.903	1064	19.47	31.32	17.4	8.1	22	1.4
020495	2012:17	28.982	-94.903	1063	19.45	31.34	17.4	7.9	22	1.7
020495	2013:18	28.982	-94.903	1064	19.43	31.33	17.4	7.7	22	1.7
020495	2014:16	28.983	-94.903	1066	19.43	31.33	17.4	7.4	22	1.8
020495	2015:16	28.983	-94.903	1066	19.43	31.34	17.4	7.2	26	1.4
020495	2016:17	28.984	-94.903	1066	19.44	31.33	17.4	7.2	30	1.2
020495	2017:17	28.984	-94.903	1066	19.44	31.32	17.4	7.1	37	1.0
020495	2018:15	28.984	-94.903	1069	19.45	31.32	17.4	7.2	42	1.5
020495	2019:16	28.984	-94.904	1066	19.45	31.33	17.4	7.2	41	0.8
020495	2020:16	28.984	-94.904	1066	19.46	31.32	17.4	7.4	34	1.2
020495	2021:17	28.984	-94.904	1063	19.44	31.32	17.3	7.6	23	1.1
020495	2022:17	28.984	-94.905	1062	19.44	31.33	17.4	7.8	13	1.4
020495	2023:16	28.984	-94.905	1063	19.44	31.33	17.6	8.0	6	1.9
020495	2024:16	28.984	-94.906	1063	19.44	31.33	17.4	8.3	360	1.3
020495	2025:17	28.984	-94.906	1058	19.44	31.33	17.4	8.5	357	1.3
020495	2026:17	28.984	-94.906	1056	19.45	31.32	17.4	8.5	353	1.6
020495	2027:15	28.984	-94.907	1056	19.45	31.32	17.4	8.5	349	1.1
020495	2028:16	28.984	-94.907	1053	19.47	31.33	17.4	8.5	346	1.4
020495	2029:16	28.984	-94.907	1050	19.47	31.32	17.4	8.4	343	1.2
020495	2030:17	28.983	-94.908	1050	19.48	31.32	17.5	8.4	342	1.1
020495	2031:15	28.983	-94.908	1046	19.48	31.34	17.4	8.7	344	1.3
020495	2032:15	28.983	-94.909	1046	19.49	31.34	17.4	8.7	345	1.4
020495	2033:16	28.983	-94.909	1044	19.50	31.33	17.4	8.8	344	1.1
020495	2034:16	28.983	-94.909	1046	19.51	31.33	17.4	8.8	346	1.1
020495	2035:17	28.983	-94.910	1042	19.51	31.34	17.4	8.9	346	1.8
020495	2036:15	28.983	-94.910	1043	19.51	31.33	17.4	8.7	348	1.5
020495	2037:15	28.983	-94.911	1046	19.51	31.34	17.5	8.4	19	1.3
020495	2038:16	28.983	-94.910	1047	19.50	31.35	17.4	8.1	70	2.9
020495	2039:16	28.984	-94.909	1038	19.48	31.31	17.4	8.0	91	4.9
020495	2040:14	28.984	-94.908	1040	19.44	31.34	18.2	7.8	90	3.4
020495	2041:15	28.984	-94.907	1044	19.43	31.33	18.1	7.6	85	2.7
020495	2042:15	28.984	-94.906	1054	19.40	31.34	17.6	7.4	66	1.8
020495	2043:16	28.984	-94.906	1054	19.38	31.33	17.4	7.4	40	2.2
020495	2044:16	28.985	-94.905	1054	19.40	31.34	17.3	7.5	57	3.1
020495	2045:15	28.985	-94.905	1053	19.41	31.34	17.3	7.6	70	2.7
020495	2046:15	28.986	-94.904	1053	19.42	31.32	17.3	7.8	70	3.6
020495	2047:16	28.986	-94.903	1048	19.41	31.32	18.6	7.9	104	3.6
020495	2048:16	28.985	-94.902	1039	19.43	31.31	19.0	7.7	138	4.0
020495	2049:14	28.984	-94.901	1040	19.42	31.32	18.9	7.6	127	4.9
020495	2050:15	28.984	-94.900	1035	19.42	31.31	18.9	7.5	128	3.8
020495	2051:15	28.983	-94.899	1036	19.42	31.33	18.9	7.6	131	3.0
020495	2052:16	28.982	-94.899	1036	19.42	31.35	18.9	7.6	123	1.7
020495	2053:14	28.982	-94.899	1028	19.45	31.35	19.2	7.7	118	1.1
020495	2054:14	28.982	-94.899	1039	19.48	31.34	19.7	7.7	115	0.9
020495	2055:15	28.981	-94.899	1029	19.49	31.35	20.0	7.6	108	0.8
020495	2056:15	28.981	-94.899	1041	19.51	31.33	18.8	7.5	88	0.6
020495	2057:14	28.981	-94.899	1043	19.54	31.33	17.5	7.4	61	0.8
020495	2058:14	28.981	-94.900	1044	19.52	31.33	17.4	7.4	56	0.5
020495	2059:15	28.981	-94.900	1045	19.51	31.33	17.5	7.7	74	0.2
020495	2100:15	28.981	-94.900	1044	19.51	31.33	17.5	8.1	86	0.5
020495	2101:16	28.982	-94.900	1044	19.51	31.34	18.8	8.3	96	0.4
020495	2102:14	28.981	-94.900	1043	19.53	31.34	19.5	8.2	98	0.2
020495	2103:14	28.981	-94.900	1033	19.54	31.32	19.2	8.1	87	0.1
020495	2104:15	28.981	-94.900	1040	19.53	31.33	18.0	7.9	73	0.2
020495	2105:15	28.981	-94.900	1041	19.51	31.34	17.5	7.5	73	0.1
020495	2106:14	28.982	-94.900	1027	19.51	31.35	17.7	7.4	83	0.0
020495	2107:14	28.982	-94.900	1038	19.53	31.32	17.6	7.3	89	0.3
020495	2108:14	28.982	-94.900	1045	19.53	31.33	17.5	7.0	91	0.1
020495	2109:15	28.982	-94.900	1025	19.51	31.34	17.5	6.7	90	0.1
020495	2110:13	28.982	-94.900	1038	19.51	31.33	17.6	6.5	87	0.1
020495	2111:14	28.982	-94.900	1029	19.51	31.34	17.6	6.5	84	0.3
020495	2112:14	28.982	-94.900	1017	19.50	31.35	18.7	6.8	91	0.5
020495	2113:15	28.982	-94.900	1035	19.50	31.35	19.5	7.2	92	0.1
020495	2114:13	28.982	-94.900	1030	19.51	31.34	18.2	7.4	84	0.1
020495	2115:13	28.982	-94.900	1031	19.51	31.34	17.7	7.3	80	0.1
020495	2116:14	28.982	-94.900	1041	19.50	31.35	17.5	7.4	79	0.1
020495	2117:14	28.982	-94.900	1031	19.51	31.34	17.6	7.4	87	0.4
020495	2118:15	28.982	-94.900	1034	19.51	31.35	18.3	7.4	96	0.1
020495	2119:13	28.982	-94.900	1037	19.54	31.34	18.8	7.2	94	0.2
020495	2120:13	28.982	-94.900	1036	19.52	31.33	17.7	7.0	85	0.1
020495	2121:14	28.982	-94.900	1044	19.51	31.35	17.5	6.9	81	0.2
020495	2122:14	28.982	-94.900	1043	19.51	31.34	17.5	7.0	85	0.1
020495	2123:13	28.982	-94.900	1030	19.52	31.34	17.6	7.1	90	0.2
020495	2124:13	28.982	-94.900	1027	19.54	31.33	17.8	7.0	91	0.2
020495	2125:14	28.982	-94.900	1028	19.54	31.34	18.4	6.8	89	0.2
020495	2126:14	28.982	-94.900	1043	19.53	31.34	17.7	7.0	83	0.3
020495	2127:12	28.982	-94.900	1041	19.53	31.33	17.6	7.4	79	0.3
020495	2128:13	28.982	-94.900	1043	19.53	31.34	17.6	7.6	84	0.1

020495	2129:13	28.982	-94.900	1034	19.53	31.34	17.7	7.6	94	0.4
020495	2130:14	28.982	-94.900	1014	19.53	31.34	17.8	7.3	96	0.1
020495	2131:12	28.982	-94.900	1022	19.53	31.34	17.6	7.1	87	0.1
020495	2132:13	28.982	-94.900	1017	19.53	31.34	17.6	7.1	82	0.3
020495	2133:13	28.982	-94.900	1027	19.53	31.34	17.5	7.1	85	0.1
020495	2134:13	28.982	-94.900	1038	19.53	31.33	17.6	7.0	90	0.3
020495	2135:14	28.982	-94.900	1041	19.52	31.34	17.6	7.0	91	0.2
020495	2136:12	28.982	-94.900	1043	19.52	31.33	17.6	6.9	93	0.0
020495	2137:13	28.982	-94.900	1035	19.52	31.34	17.6	6.8	93	0.1
020495	2138:13	28.982	-94.900	1018	19.53	31.34	17.7	6.8	91	0.1
020495	2139:14	28.982	-94.900	1011	19.52	31.33	17.6	6.9	91	0.2
020495	2140:12	28.982	-94.900	1015	19.51	31.34	17.6	7.0	92	0.4
020495	2141:12	28.982	-94.900	1017	19.53	31.34	17.6	7.1	93	0.3
020495	2142:13	28.982	-94.900	981	19.52	31.32	17.6	7.1	94	0.2
020495	2143:13	28.982	-94.900	967	19.51	31.33	17.7	7.0	91	0.2
020495	2144:12	28.982	-94.900	819	19.51	31.34	17.6	7.2	92	0.2
020495	2145:12	28.982	-94.900	899	19.51	31.34	17.6	7.2	94	0.3
020495	2146:13	28.982	-94.900	924	19.51	31.33	17.6	7.2	97	0.1
020495	2147:13	28.982	-94.900	899	19.50	31.34	17.6	7.2	94	0.1
020495	2148:13	28.982	-94.900	926	19.53	31.34	17.6	7.1	90	0.1
020495	2149:12	28.982	-94.900	945	19.51	31.34	17.6	7.1	87	0.2
020495	2150:12	28.982	-94.900	1019	19.51	31.33	17.7	7.0	91	0.2
020495	2151:13	28.982	-94.900	1018	19.51	31.33	17.6	7.1	96	0.1
020495	2152:13	28.982	-94.900	1028	19.52	31.33	17.7	6.9	99	0.1
020495	2153:11	28.982	-94.900	1017	19.51	31.35	17.8	6.7	95	0.2
020495	2154:12	28.982	-94.900	999	19.50	31.34	17.6	6.4	86	0.3
020495	2155:12	28.982	-94.900	994	19.51	31.33	17.6	6.3	81	0.2
020495	2156:13	28.982	-94.900	970	19.52	31.32	17.6	6.6	90	0.1
020495	2157:11	28.982	-94.900	959	19.51	31.34	17.6	7.0	97	0.2
020495	2158:12	28.982	-94.900	970	19.52	31.34	17.6	7.2	99	0.1
020495	2159:12	28.982	-94.900	936	19.51	31.33	17.7	7.3	96	0.1
020495	2200:13	28.982	-94.900	877	19.51	31.33	17.6	7.4	87	0.2
020495	2201:11	28.982	-94.900	866	19.52	31.33	17.6	7.4	85	0.3
020495	2202:11	28.982	-94.900	911	19.50	31.33	17.6	7.4	91	0.2
020495	2203:12	28.982	-94.900	914	19.51	31.33	17.6	7.2	91	0.3
020495	2204:12	28.982	-94.900	925	19.51	31.33	17.6	7.1	94	0.4
020495	2205:13	28.982	-94.900	921	19.51	31.33	17.6	6.9	98	0.3
020495	2206:11	28.982	-94.900	909	19.51	31.32	17.6	6.9	101	0.3
020495	2207:11	28.982	-94.900	906	19.50	31.33	17.6	6.9	98	0.1
020495	2208:12	28.982	-94.900	907	19.52	31.32	17.6	7.0	92	0.2
020495	2209:12	28.982	-94.900	914	19.50	31.33	17.7	7.1	88	0.1
020495	2210:11	28.982	-94.900	924	19.50	31.33	17.6	7.5	92	0.5
020495	2211:11	28.982	-94.900	904	19.49	31.33	17.7	7.7	96	0.2
020495	2212:12	28.982	-94.900	910	19.51	31.32	17.6	7.7	98	0.1
020495	2213:12	28.982	-94.900	904	19.50	31.33	17.6	7.6	99	0.2
020495	2214:10	28.982	-94.900	922	19.50	31.32	17.6	7.4	99	0.1
020495	2215:11	28.982	-94.900	947	19.50	31.33	17.6	7.3	95	0.3
020495	2216:11	28.982	-94.900	952	19.51	31.32	17.6	7.4	88	0.1
020495	2217:12	28.982	-94.900	955	19.50	31.33	17.6	7.4	90	0.1
020495	2218:10	28.982	-94.900	952	19.50	31.33	17.6	7.3	95	0.1
020495	2219:10	28.982	-94.900	952	19.50	31.33	17.6	7.2	96	0.2
020495	2220:11	28.982	-94.900	948	19.51	31.33	17.7	7.1	96	0.2
020495	2221:11	28.982	-94.900	946	19.51	31.33	17.6	7.0	91	0.2
020495	2222:10	28.982	-94.900	940	19.51	31.33	17.6	7.0	87	0.2
020495	2223:10	28.982	-94.900	944	19.50	31.33	17.6	7.0	93	0.2
020495	2224:11	28.982	-94.900	939	19.50	31.33	17.6	7.1	96	0.2
020495	2225:11	28.982	-94.900	941	19.50	31.33	17.6	7.1	94	0.1
020495	2226:12	28.982	-94.900	930	19.51	31.34	17.5	7.0	91	0.2
020495	2227:10	28.982	-94.900	909	19.51	31.33	17.6	6.9	88	0.4
020495	2228:10	28.982	-94.900	893	19.50	31.33	17.6	7.2	89	0.3
020495	2229:11	28.982	-94.900	895	19.51	31.32	17.6	7.7	93	0.2
020495	2230:11	28.982	-94.900	879	19.51	31.33	17.6	8.0	91	0.3
020495	2231:09	28.982	-94.900	887	19.51	31.31	17.6	8.1	93	0.2
020495	2232:10	28.982	-94.900	885	19.50	31.33	17.7	8.2	99	0.2
020495	2233:10	28.982	-94.900	879	19.50	31.34	17.6	8.3	99	0.2
020495	2234:11	28.982	-94.900	873	19.50	31.33	17.6	8.1	95	0.1
020495	2235:09	28.982	-94.900	812	19.51	31.31	17.6	8.0	91	0.7
020495	2236:10	28.982	-94.899	835	19.49	31.32	17.6	7.8	97	1.2
020495	2237:10	28.982	-94.899	876	19.50	31.32	18.5	7.6	133	0.4
020495	2238:11	28.981	-94.899	879	19.50	31.33	18.7	7.3	129	0.9
020495	2239:11	28.982	-94.899	857	19.50	31.34	18.1	7.3	73	0.4
020495	2240:09	28.982	-94.900	858	19.54	31.37	17.7	7.3	59	0.8
020495	2241:10	28.982	-94.900	863	19.55	31.36	17.6	7.6	62	1.5
020495	2242:10	28.982	-94.900	853	19.58	31.32	17.6	7.9	34	5.5
020495	2243:11	28.984	-94.898	845	19.51	31.33	17.6	8.0	36	9.0
020495	2244:09	28.986	-94.897	821	19.48	31.33	17.6	8.0	37	8.9
020495	2245:09	28.988	-94.895	835	19.45	31.31	17.6	7.9	37	9.0
020495	2246:10	28.991	-94.894	837	19.40	31.32	17.6	8.0	38	8.7
020495	2247:10	28.993	-94.892	842	19.38	31.31	17.6	8.0	39	8.7
020495	2248:09	28.994	-94.891	858	19.35	31.30	17.6	8.1	38	8.8

020495	2249:09	28.997	-94.889	848	19.33	31.30	17.6	8.0	38	8.7
020495	2250:10	28.999	-94.888	845	19.31	31.30	17.6	8.0	38	8.5
020495	2251:10	29.001	-94.886	828	19.30	31.27	17.5	8.0	38	8.8
020495	2252:08	29.002	-94.884	812	19.29	31.27	17.6	8.0	38	8.7
020495	2253:09	29.004	-94.883	788	19.31	31.24	17.6	8.1	38	8.7
020495	2254:09	29.007	-94.881	778	19.34	31.22	17.6	8.1	38	8.8
020495	2255:10	29.009	-94.880	782	19.42	31.13	17.6	8.1	38	8.7
020495	2256:10	29.011	-94.878	782	19.43	31.03	17.5	8.0	38	8.6
020495	2257:08	29.012	-94.877	794	19.45	30.92	17.6	7.8	39	8.5
020495	2258:09	29.015	-94.875	507	19.43	30.81	17.6	7.7	39	8.8
020495	2259:09	29.017	-94.874	675	19.41	30.76	17.6	7.6	39	9.1
020495	2300:10	29.019	-94.872	679	19.46	30.73	17.6	7.7	39	9.1
020495	2301:08	29.021	-94.870	697	19.54	30.60	17.5	7.9	39	9.1
020495	2302:09	29.023	-94.869	675	19.56	30.49	17.5	8.1	39	9.0
020495	2303:09	29.025	-94.867	652	19.54	30.39	17.6	8.1	39	9.1
020495	2304:10	29.027	-94.865	753	19.49	30.31	17.6	8.2	40	9.1
020495	2305:07	29.029	-94.864	762	19.44	30.25	17.6	8.2	40	9.2
020495	2306:07	29.031	-94.862	735	19.41	30.21	17.6	8.1	39	9.2
020495	2307:09	29.033	-94.860	610	19.40	30.15	17.5	8.0	41	9.0
020495	2308:08	29.035	-94.859	625	19.40	30.07	17.5	7.8	40	9.1
020495	2309:07	29.037	-94.857	374	19.37	30.06	17.5	7.6	41	9.2
020495	2309:31	29.038	-94.856	465	19.36	30.05	17.5	7.6	40	9.1
020495	2310:07	29.039	-94.855	398	19.34	30.03	17.5	7.6	40	9.2
020495	2311:08	29.041	-94.854	663	19.33	30.02	17.5	7.6	40	9.2
020495	2312:08	29.043	-94.852	697	19.34	29.96	17.5	7.7	39	9.2
020495	2313:08	29.046	-94.850	608	19.33	29.95	17.5	7.8	40	9.1
020495	2314:07	29.048	-94.848	679	19.32	29.93	17.6	7.7	41	9.2
020495	2315:07	29.050	-94.847	707	19.30	29.96	17.6	7.7	40	9.2
020495	2316:08	29.052	-94.845	747	19.27	29.99	17.5	7.7	39	9.3
020495	2317:08	29.054	-94.843	740	19.26	29.98	17.5	7.7	40	9.2
020495	2318:06	29.056	-94.842	732	19.25	29.98	17.5	7.7	39	9.3
020495	2319:07	29.058	-94.840	705	19.22	30.00	17.5	7.9	41	9.3
020495	2320:07	29.060	-94.838	667	19.22	30.01	17.5	8.1	41	9.3
020495	2321:08	29.062	-94.836	667	19.24	29.97	17.5	8.2	40	9.2
020495	2322:06	29.064	-94.835	649	19.22	30.01	17.5	8.3	40	9.4
020495	2323:07	29.066	-94.833	612	19.19	30.04	17.6	8.5	40	9.5
020495	2324:07	29.068	-94.831	556	19.18	30.04	17.5	8.5	40	9.3
020495	2325:08	29.070	-94.829	539	19.15	30.10	17.5	8.5	37	9.4
020495	2326:06	29.073	-94.828	559	19.13	30.10	17.5	8.5	38	9.6
020495	2327:07	29.075	-94.826	556	19.13	30.09	17.5	8.4	40	9.3
020495	2328:07	29.077	-94.824	578	19.13	30.07	17.5	8.2	41	9.4
020495	2329:08	29.079	-94.823	532	19.13	30.06	17.5	8.0	39	9.3
020495	2330:06	29.081	-94.821	629	19.09	30.12	17.5	7.9	41	9.3
020495	2331:07	29.083	-94.819	621	19.10	30.07	17.5	7.9	38	9.4
020495	2332:07	29.085	-94.817	614	19.12	30.05	17.5	8.0	37	9.3
020495	2333:08	29.087	-94.816	612	19.16	30.02	17.5	8.1	38	9.4
020495	2334:06	29.090	-94.814	606	19.19	29.96	17.5	8.2	40	9.5
020495	2335:06	29.092	-94.812	597	19.23	29.82	17.5	8.2	39	9.2
020495	2336:07	29.094	-94.811	587	19.25	29.70	17.5	8.4	38	9.4
020495	2337:07	29.096	-94.809	575	19.26	29.64	17.5	8.6	37	9.3
020495	2338:05	29.098	-94.807	567	19.27	29.58	17.5	8.8	36	9.5
020495	2339:06	29.100	-94.806	554	19.28	29.46	17.5	8.8	36	9.4
020495	2340:06	29.103	-94.804	550	19.31	29.35	17.5	8.7	39	9.2
020495	2341:07	29.105	-94.802	537	19.33	29.24	17.5	8.6	39	9.3
020495	2342:05	29.107	-94.801	533	19.36	29.12	17.5	8.5	35	9.2
020495	2343:06	29.109	-94.799	509	19.38	28.95	17.5	8.5	34	9.2
020495	2344:06	29.111	-94.798	490	19.41	28.81	17.5	8.4	35	9.2
020495	2345:07	29.113	-94.796	488	19.41	28.61	17.5	8.2	35	9.3
020495	2346:07	29.116	-94.794	493	19.41	28.51	17.5	8.2	35	9.1
020495	2347:05	29.118	-94.793	483	19.40	28.40	17.5	8.1	34	9.2
020495	2348:06	29.120	-94.792	476	19.42	28.26	17.5	8.1	32	9.2
020495	2349:06	29.122	-94.790	467	19.46	28.04	17.5	8.1	36	9.2
020495	2350:07	29.124	-94.789	453	19.51	27.85	17.5	8.1	34	9.3
020495	2351:05	29.127	-94.787	405	19.58	27.63	17.5	8.2	35	9.0
020495	2352:05	29.129	-94.786	303	19.65	27.43	17.5	8.3	35	9.1
020495	2353:06	29.131	-94.784	281	19.73	27.26	17.5	8.4	35	9.1
020495	2354:06	29.133	-94.783	320	19.81	27.08	17.5	8.5	36	9.2
020495	2355:05	29.135	-94.781	398	19.89	26.93	17.6	8.5	36	9.1
020495	2356:05	29.137	-94.780	365	19.96	26.83	17.5	8.5	35	9.1
020495	2357:06	29.140	-94.778	358	20.00	26.79	17.6	8.6	34	9.2
020495	2358:06	29.142	-94.777	358	20.05	26.69	17.5	8.5	35	9.1
020495	2359:04	29.144	-94.775	347	20.09	26.63	17.6	8.2	34	9.2
030495	0000:05	29.146	-94.774	320	20.13	26.60	17.6	7.9	35	9.1
030495	0001:05	29.148	-94.772	284	20.14	26.63	17.6	7.8	36	9.2
030495	0002:06	29.151	-94.771	263	20.17	26.64	17.5	7.8	35	9.1
030495	0003:04	29.153	-94.769	222	20.20	26.66	17.6	7.8	35	9.1
030495	0004:04	29.155	-94.768	237	20.21	26.63	17.5	8.0	35	9.1
030495	0005:05	29.157	-94.766	171	20.19	26.59	17.6	8.0	41	9.2
030495	0006:05	29.159	-94.765	139	20.08	26.47	17.6	8.1	39	9.1
030495	0007:06	29.161	-94.763	140	19.84	26.44	17.6	8.1	39	9.1

030495	0008:04	29.163	-94.762	124	19.70	26.37	17.6	8.1	38	9.1
030495	0009:05	29.165	-94.760	103	19.67	26.16	17.6	8.2	38	8.9
030495	0010:05	29.167	-94.758	104	19.62	26.16	17.5	8.3	37	8.9
030495	0011:06	29.170	-94.757	109	19.57	26.27	17.5	8.4	36	9.0
030495	0012:04	29.172	-94.755	109	19.53	26.39	17.5	8.5	35	8.9
030495	0013:04	29.174	-94.754	114	19.52	26.46	17.5	8.5	35	8.9
030495	0014:05	29.176	-94.752	128	19.51	26.53	17.5	8.5	35	9.0
030495	0015:05	29.178	-94.751	104	19.53	26.58	17.6	8.5	40	8.8
030495	0016:04	29.180	-94.749	118	19.56	26.57	17.6	8.5	39	8.7
030495	0017:04	29.182	-94.748	100	19.55	26.63	17.5	8.5	38	8.8
030495	0018:05	29.184	-94.746	103	19.59	26.60	17.5	8.5	39	8.7
030495	0019:05	29.186	-94.745	94	19.62	26.58	17.5	8.3	38	8.8
030495	0020:05	29.188	-94.743	87	19.64	26.60	17.5	8.1	39	8.8
030495	0021:04	29.190	-94.741	79	19.64	26.64	17.6	8.1	39	8.7
030495	0022:04	29.192	-94.740	75	19.66	26.65	17.5	8.2	39	8.8
030495	0023:05	29.194	-94.738	74	19.69	26.62	17.6	8.4	38	8.9
030495	0024:05	29.196	-94.737	61	19.76	26.56	17.6	8.5	39	8.8
030495	0025:03	29.198	-94.735	54	19.87	26.50	17.6	8.6	39	8.8
030495	0026:04	29.200	-94.733	52	19.92	26.51	17.6	8.5	39	8.8
030495	0027:04	29.202	-94.732	51	19.86	26.43	17.5	8.4	38	8.7
030495	0028:05	29.204	-94.730	44	19.77	26.34	17.6	8.3	34	8.7
030495	0029:03	29.206	-94.729	39	19.72	26.27	17.6	8.4	32	8.9
030495	0030:04	29.208	-94.727	36	19.69	26.26	17.6	8.4	29	8.8
030495	0031:04	29.210	-94.726	33	19.66	26.21	17.6	8.3	28	8.6
030495	0032:04	29.213	-94.725	30	19.64	26.12	17.6	8.2	30	8.6
030495	0033:05	29.215	-94.724	27	19.66	25.87	17.6	8.1	33	8.4
030495	0034:03	29.217	-94.723	25	19.66	25.72	17.6	8.1	32	8.6
030495	0035:04	29.219	-94.722	23	19.66	25.59	17.6	8.0	32	8.5
030495	0036:04	29.221	-94.720	21	19.68	25.40	17.6	8.4	33	8.5
030495	0037:05	29.223	-94.719	19	19.69	25.27	17.6	8.6	32	8.5
030495	0038:03	29.225	-94.718	18	19.69	25.16	17.6	8.6	33	8.6
030495	0039:03	29.227	-94.717	17	19.67	25.07	17.6	8.6	33	8.6
030495	0040:04	29.229	-94.715	15	19.68	24.97	17.6	8.6	32	8.6
030495	0041:04	29.232	-94.714	14	19.68	24.94	17.6	8.6	32	8.7
030495	0042:03	29.234	-94.713	13	19.69	24.85	17.6	8.6	33	8.6
030495	0043:03	29.236	-94.712	12	19.73	24.66	17.6	8.6	32	8.5
030495	0044:04	29.238	-94.710	11	19.75	24.60	17.6	8.5	32	8.6
030495	0045:04	29.240	-94.709	10	19.77	24.60	17.6	8.3	33	8.8
030495	0046:02	29.242	-94.708	9	19.79	24.58	17.6	8.2	32	8.6
030495	0047:03	29.244	-94.707	9	19.82	24.48	17.6	8.3	33	8.6
030495	0048:03	29.246	-94.705	8	19.86	24.30	17.6	8.3	33	8.6
030495	0049:04	29.249	-94.704	8	19.89	24.20	17.6	8.5	33	8.6
030495	0050:04	29.251	-94.703	8	19.90	24.13	17.5	8.5	33	8.5
030495	0051:02	29.253	-94.702	7	19.91	23.98	17.6	8.4	32	8.5
030495	0052:03	29.255	-94.700	7	19.96	23.85	17.6	8.2	32	8.4
030495	0053:03	29.257	-94.699	7	20.01	23.76	17.6	8.2	31	8.6
030495	0054:04	29.259	-94.698	7	20.05	23.72	17.6	8.4	31	8.4
030495	0055:02	29.261	-94.697	6	20.08	23.61	17.5	8.6	32	8.4
030495	0056:02	29.263	-94.695	6	20.09	23.58	17.6	8.8	32	8.5
030495	0057:03	29.265	-94.694	6	20.09	23.57	17.5	9.0	31	8.5
030495	0058:03	29.267	-94.693	6	20.10	23.56	17.5	9.0	31	8.3
030495	0059:04	29.269	-94.692	6	20.13	23.52	17.5	8.9	31	8.4
030495	0100:02	29.271	-94.690	6	20.14	23.51	17.6	8.6	31	8.5
030495	0101:02	29.273	-94.689	6	20.15	23.49	17.5	8.4	32	8.3
030495	0102:03	29.275	-94.688	6	20.15	23.48	17.5	8.4	32	8.4
030495	0103:03	29.277	-94.686	6	20.16	23.47	17.5	8.5	65	7.5
030495	0104:02	29.278	-94.685	6	20.12	22.73	17.5	8.4	34	7.4
030495	0105:02	29.280	-94.683	6	20.09	22.98	17.6	8.4	37	8.2
030495	0106:03	29.282	-94.682	6	20.06	23.21	17.5	8.3	39	8.6
030495	0107:03	29.284	-94.680	6	19.91	23.28	17.5	8.3	38	8.3
030495	0108:01	29.286	-94.678	6	19.88	23.28	17.5	8.3	39	8.5
030495	0109:02	29.288	-94.677	6	19.93	23.31	17.5	8.3	39	8.5
030495	0110:02	29.290	-94.675	6	19.96	23.31	17.5	8.4	38	8.4
030495	0111:03	29.292	-94.673	6	20.01	23.21	17.6	8.4	34	8.6
030495	0112:03	29.294	-94.672	6	20.06	23.13	17.5	8.5	35	8.7
030495	0113:01	29.295	-94.670	6	20.07	23.04	17.5	8.4	39	8.7
030495	0114:02	29.297	-94.669	6	20.08	23.05	17.5	8.7	38	7.6
030495	0115:02	29.299	-94.667	6	20.09	23.17	17.5	8.7	34	8.7
030495	0116:03	29.301	-94.665	6	20.07	23.24	17.5	8.7	31	8.8
030495	0117:01	29.303	-94.664	6	20.04	23.28	17.6	8.7	26	8.9
030495	0118:01	29.306	-94.663	6	20.03	23.29	17.5	8.7	29	8.9
030495	0119:02	29.308	-94.661	6	20.05	23.27	17.6	8.6	29	9.0
030495	0120:02	29.310	-94.660	6	20.04	23.21	17.5	8.6	29	9.1
030495	0121:03	29.312	-94.659	6	20.05	23.24	17.5	8.7	19	9.1
030495	0122:01	29.315	-94.658	6	20.06	23.24	17.5	8.7	22	9.3
030495	0123:01	29.317	-94.657	6	20.07	23.24	17.5	8.5	21	9.4
030495	0124:02	29.320	-94.656	6	20.08	23.22	17.5	8.5	15	9.4
030495	0125:02	29.322	-94.655	6	20.06	23.11	17.4	8.6	311	8.5
030495	0126:01	29.324	-94.657	6	20.05	22.99	17.5	8.7	304	9.5
030495	0127:01	29.325	-94.660	6	20.02	23.04	17.5	8.7	301	10.1

030495	0128:02	29.327	-94.663	6	20.06	22.91	17.5	8.6	302	9.8
030495	0129:02	29.328	-94.665	6	20.12	22.76	17.5	8.4	302	9.8
030495	0130:00	29.330	-94.668	6	20.19	22.59	17.6	8.2	298	9.7
030495	0131:01	29.331	-94.671	6	20.20	22.33	17.8	8.2	294	9.6
030495	0132:01	29.332	-94.674	6	20.18	21.90	18.0	8.5	295	9.6
030495	0133:02	29.333	-94.676	6	20.11	21.26	17.9	8.7	299	9.6
030495	0134:00	29.334	-94.679	6	20.01	20.80	17.9	8.6	295	9.3
030495	0135:00	29.335	-94.682	6	19.84	20.63	17.8	8.6	302	9.2
030495	0136:01	29.337	-94.684	6	19.73	20.43	17.7	8.7	306	7.5
030495	0137:01	29.338	-94.686	6	19.65	18.73	17.9	8.5	306	7.5
030495	0138:02	29.339	-94.687	6	19.59	18.25	17.9	8.3	302	7.9
030495	0139:00	29.340	-94.690	6	19.59	17.76	17.5	8.1	286	8.8
030495	0140:01	29.341	-94.692	6	19.54	17.87	17.5	8.0	285	9.0
030495	0141:01	29.342	-94.695	6	19.55	17.64	17.4	8.3	284	9.1
030495	0142:02	29.342	-94.698	6	19.50	17.57	17.3	8.8	285	9.0
030495	0143:00	29.343	-94.701	6	19.49	17.22	17.3	9.2	286	9.0
030495	0144:00	29.344	-94.704	6	19.54	16.83	17.3	9.4	284	9.0
030495	0145:01	29.344	-94.707	6	19.56	16.45	17.3	9.4	284	8.9
030495	0146:01	29.345	-94.709	6	19.60	15.92	17.4	9.2	284	9.1
030495	0147:00	29.345	-94.712	6	19.65	15.71	17.4	9.2	285	9.1
030495	0148:00	29.346	-94.715	6	19.59	15.45	17.4	9.3	264	8.3
030495	0149:00	29.346	-94.717	6	19.61	15.44	17.4	9.3	271	8.9
030495	0150:01	29.346	-94.720	6	19.66	15.25	17.4	9.2	267	9.1
030495	0150:59	29.346	-94.723	6	19.65	14.88	17.4	9.3	265	9.2
030495	0152:00	29.346	-94.726	6	19.68	14.78	17.3	9.5	265	9.2
030495	0153:00	29.345	-94.729	6	19.56	15.23	17.4	9.6	262	9.1
030495	0154:01	29.345	-94.732	6	19.59	15.29	17.5	9.7	260	9.1
030495	0155:01	29.345	-94.735	6	19.61	15.38	17.5	9.9	262	9.0
030495	0155:59	29.344	-94.738	6	19.60	15.15	17.5	9.8	266	9.0
030495	0157:00	29.344	-94.740	6	19.64	14.75	17.5	9.6	265	9.1
030495	0158:00	29.344	-94.743	6	19.70	14.61	17.5	9.3	266	9.2
030495	0159:01	29.344	-94.746	6	19.66	14.52	17.5	9.1	265	8.9
030495	0159:59	29.344	-94.749	6	19.61	14.74	17.5	8.9	256	8.7
030495	0201:00	29.343	-94.752	6	19.57	14.86	17.4	8.8	259	9.0
030495	0202:00	29.343	-94.755	6	19.54	14.96	17.6	8.5	258	9.0
030495	0203:01	29.342	-94.758	6	19.55	14.78	17.4	8.6	259	9.1
030495	0203:59	29.342	-94.760	6	19.58	14.46	17.4	8.8	256	9.0
030495	0204:59	29.341	-94.763	6	19.58	14.35	17.3	8.9	253	9.1
030495	0206:00	29.340	-94.766	6	19.59	14.42	17.3	9.0	251	6.1
030495	0206:59	29.340	-94.767	6	19.59	14.24	17.2	9.0	243	2.9
030495	0208:00	29.340	-94.768	6	19.58	13.74	17.1	9.2	256	2.2
030495	0208:58	29.339	-94.769	6	19.58	13.61	17.1	9.1	255	6.5
030495	0209:58	29.339	-94.771	6	19.50	13.57	17.1	9.0	230	8.7
030495	0211:00	29.337	-94.773	6	19.58	13.45	17.2	8.6	220	9.5
030495	0212:00	29.335	-94.775	6	19.69	13.68	17.3	8.2	204	9.9
030495	0212:58	29.332	-94.776	6	19.77	13.71	17.3	7.9	197	9.9
030495	0213:59	29.330	-94.777	6	19.72	13.98	17.3	7.6	197	10.1
030495	0215:00	29.327	-94.778	6	19.68	14.37	17.4	7.4	193	10.0
030495	0215:59	29.324	-94.779	6	19.61	14.83	17.6	7.3	212	9.2
030495	0216:57	29.322	-94.781	6	19.62	14.99	17.7	7.0	215	8.3
030495	0217:58	29.320	-94.782	6	19.62	15.09	17.7	6.8	221	8.4
030495	0218:58	29.319	-94.784	6	19.61	15.09	17.8	6.7	222	8.6
030495	0219:59	29.317	-94.786	6	19.59	15.03	17.8	6.7	227	8.5
030495	0220:57	29.316	-94.788	6	19.58	14.98	17.8	6.7	232	7.4
030495	0221:57	29.314	-94.790	6	19.57	14.96	17.7	6.9	233	8.9
030495	0222:58	29.313	-94.792	6	19.59	14.91	17.7	7.0	242	9.3
030495	0223:58	29.311	-94.795	6	19.60	15.02	17.6	7.0	245	9.4
030495	0224:59	29.311	-94.798	6	19.62	15.06	17.7	7.0	256	9.2
030495	0225:57	29.310	-94.800	6	19.68	15.00	17.7	6.9	271	8.9
030495	0226:58	29.310	-94.803	6	19.69	14.95	17.7	6.8	270	9.3
030495	0227:58	29.310	-94.807	6	19.72	14.88	17.7	6.5	275	8.6
030495	0228:59	29.311	-94.809	6	19.73	14.76	17.7	6.2	276	9.3
030495	0229:57	29.311	-94.812	6	19.72	14.66	17.7	6.0	277	9.2
030495	0230:57	29.311	-94.815	6	19.71	14.69	17.7	6.0	275	6.1
030495	0231:58	29.311	-94.816	6	19.63	14.67	17.7	6.1	295	5.5
030495	0232:58	29.312	-94.818	6	19.59	14.70	18.0	6.4	338	3.7
030495	0233:56	29.312	-94.818	6	19.46	14.62	17.8	6.6	38	0.7
030495	0234:57	29.312	-94.818	6	19.40	14.76	17.7	6.6	85	0.2
030495	0235:57	29.312	-94.818	6	19.35	15.01	17.7	6.7	130	0.9
030495	0236:58	29.312	-94.818	6	19.35	14.86	17.6	6.8	128	0.7
030495	0237:56	29.312	-94.818	6	19.37	14.95	17.8	6.7	87	0.5
030495	0238:57	29.312	-94.818	6	19.30	15.22	17.8	6.6	103	0.8
030495	0239:57	29.312	-94.818	6	19.31	15.07	17.8	6.5	86	0.6

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The Department of the Interior Mission

As the Nation's principal conservation agency, the Department of the Interior has responsibility for most of our nationally owned public lands and natural resources. This includes fostering sound use of our land and water resources; protecting our fish, wildlife, and biological diversity; preserving the environmental and cultural values of our national parks and historical places; and providing for the enjoyment of life through outdoor recreation. The Department assesses our energy and mineral resources and works to ensure that their development is in the best interests of all our people by encouraging stewardship and citizen participation in their care. The Department also has a major responsibility for American Indian reservation communities and for people who live in island territories under U.S. administration.



The Minerals Management Service Mission

As a bureau of the Department of the Interior, the Minerals Management Service's (MMS) primary responsibilities are to manage the mineral resources located on the Nation's Outer Continental Shelf (OCS), collect revenue from the Federal OCS and onshore Federal and Indian lands, and distribute those revenues.

Moreover, in working to meet its responsibilities, the **Offshore Minerals Management Program** administers the OCS competitive leasing program and oversees the safe and environmentally sound exploration and production of our Nation's offshore natural gas, oil and other mineral resources. The MMS **Minerals Revenue Management** meets its responsibilities by ensuring the efficient, timely and accurate collection and disbursement of revenue from mineral leasing and production due to Indian tribes and allottees, States and the U.S. Treasury.

The MMS strives to fulfill its responsibilities through the general guiding principles of: (1) being responsive to the public's concerns and interests by maintaining a dialogue with all potentially affected parties and (2) carrying out its programs with an emphasis on working to enhance the quality of life for all Americans by lending MMS assistance and expertise to economic development and environmental protection.