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JOINT COMMITTEE ON OCEANOGRAPHY

PHYSICAL AND CHEMICAL DATA RECORD

STRAIT OF GEORGIA

1930, 1931, 1932



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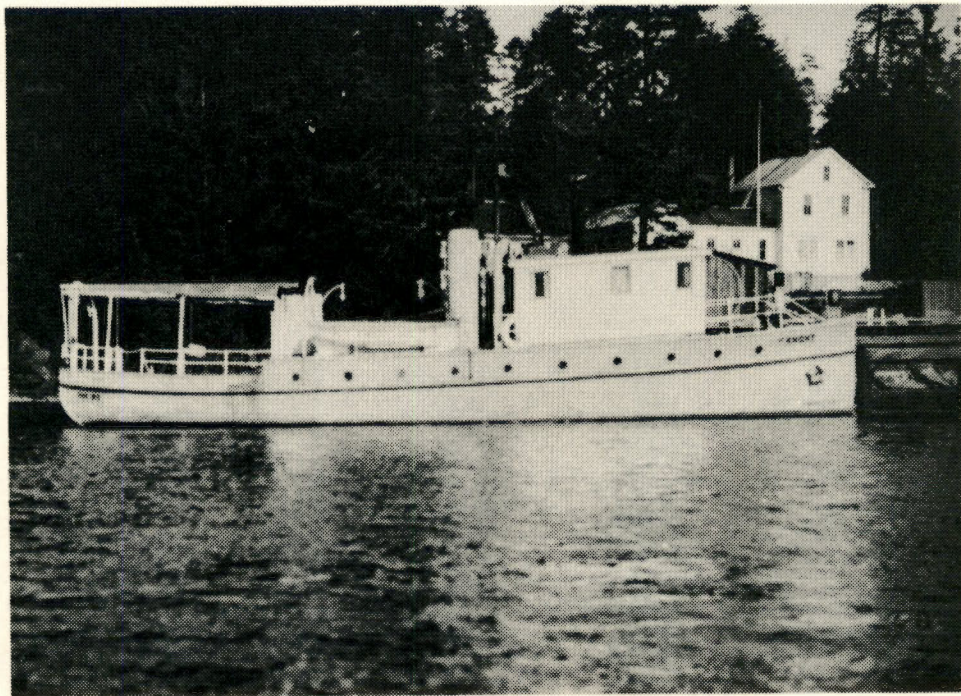
PHYSICAL AND CHEMICAL DATA RECORD

STRAIT OF GEORGIA

1930, 1931, 1932.

File N 7-1-3

July 1, 1953.



C.G.M.S. A.P. Knight, from which the oceanographic observations were made during 1930, 1931 and 1932. The sounding line was handled from a winch and davit assembly on the after deck. Seawater samples were analysed in the laboratory in the deck-house.

The ship was destroyed by fire in 1942 and the early log books with records of the cruises have been lost.

STATION POSITIONS

<u>STATION</u>	<u>LATITUDE</u>	<u>LONGITUDE</u>
1	49° 15.5' N	123° 47.0' W
A	49° 14'	123° 27'
B	49° 07'	123° 20'
C	48° 57'	123° 07'
D	48° 53'	123° 18'
E	49° 02'	123° 43'
F	48° 52'	122° 52'
G	48° 43'	122° 47'
H	48° 26'	122° 45'
I	48° 34'	123° 01'
J	48° 43'	123° 12'
K	49° 19'	123° 21'
L	50° 07'	124° 54'
M	49° 52'	124° 45'
N	49° 43'	124° 48'
	49° 36'	124° 45'
O	49° 58'	125° 10'
P	49° 42'	124° 18'
Q	49° 25'	123° 47'
R	48° 28'	123° 09'
S	50° 27.5'	126° 03'

Tidal Phase

HHW	Higher high water
LW	Low water
HW	High water
LLW	Lower low water

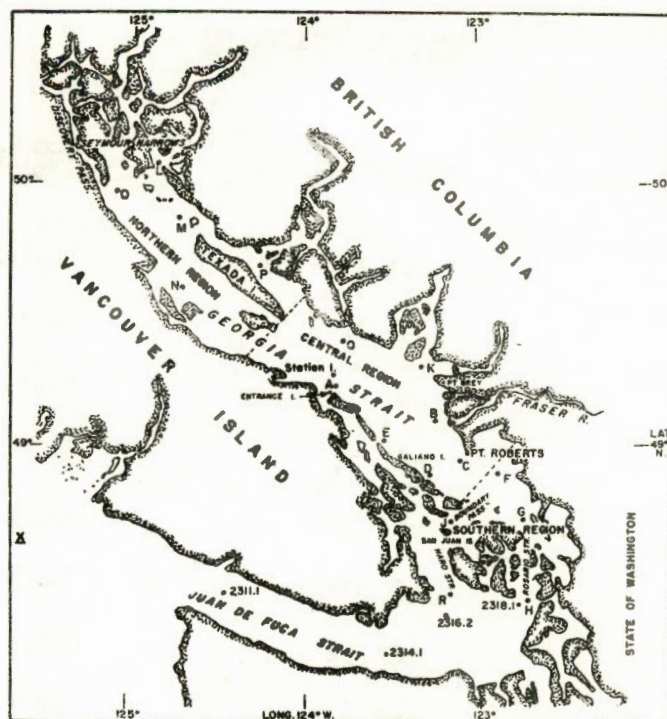


Figure 1

Oceanographic Stations in the Strait of Georgia, 1930, 1931, 1932

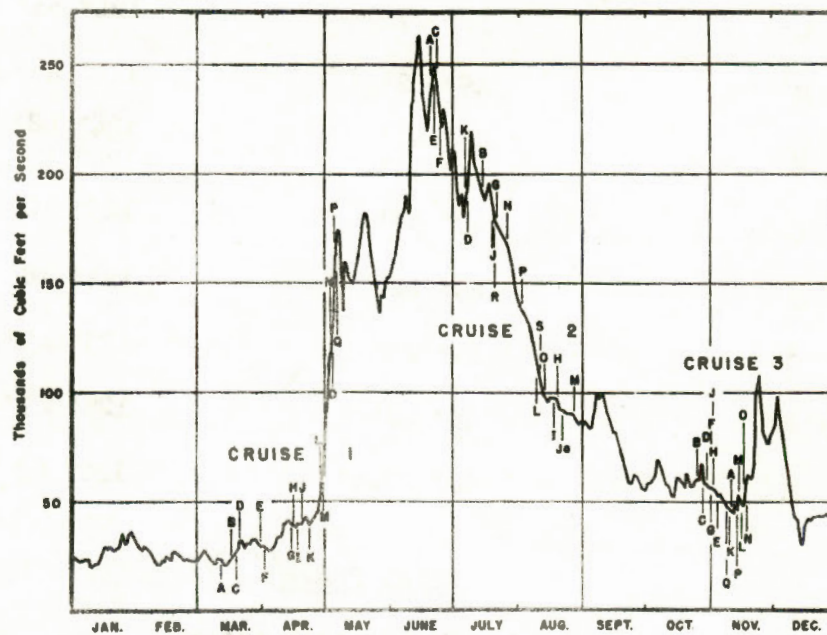


Figure 2

The dates of the oceanographic observations and discharge of the Fraser River for 1932

Summary of Work

The data presented here were collected by Dr. N.M. Carter and (Dr.) J.P. Tully aboard the A.P. Knight during the years 1930, 1931, and 1932.

From November, 1930 to January, 1932 the properties of the water were observed monthly at Station 1 (Figure 1) in Georgia Strait. In 1932 three surveys were conducted. Eighteen (Stations (A to R in Figure 1) were selected. The ship was anchored on each one in turn while serial observations were made at the four times of successive high and low tides in a day. This whole series were observed in the spring, in mid-summer, and again in late autumn (Figure 2). Samples were taken with seven Ekman deep sea reversing sampling bottles with reversing thermometers attached, at depths of 0, 1, 2, 4, 6, 10, 20, 30, 50, 100, 150, and 200 metres, or as many of these as the depth of water would allow. Immediately after collection the samples were analyzed on board ship for salinity, oxygen and hydrogen ion concentration, and the concentration of nutrient elements.

Method of Analyses

Standard methods for analyses were used with modifications for use in sea water and on ship-board, as outlined in the "Handbook of Oceanographic Methods" (1949).

Chlorosity (Cl/l) was determined by the Mohr titration, and salinity (S ‰) was computed by the abacs of Carter and Tully (1937).

Dissolved oxygen was determined by the Winkler method (1888).

Hydrogen ion concentration was determined colorimetrically using a LaMotte block comparator and cresol red standards, and reported as pH without salt correction.

Dissolved phosphates were determined by the ceruleomolybdate method of Denige (1921) and reported as milligrams of phosphate (PO_4) per cubic metre (mg./cu.m.).

Dissolved silicate was determined by the method of Dienert and Waldenbulcke (1923) and reported as milligrams of silicate (SiO_2) per litre (mg./l.).

The colorimetric analyses for phosphate and silicate was carried out by visual comparison of the sample and a standard in Nessler tubes using artificial light in a comparator of special design (Tully and Carter, 1938).

References

- Carter, N.M. and J.P. Tully. A graphical method for the conversion of chlorinity per litre to chlorinity per kilogram ($\text{Cl}^\circ/\text{‰}$) in sea water analyses. J. du Conseil, 7, 1, 1937.
- Deniges, G. Determination quantitative des plus faibles quantites de phosphates dans les products par la methode ceruleomolybdique. C.R. Soc. Biol., Paris, 84, No. 17, 875-877, 1921.
- Dienert, F. and F. Waldenbulcke. Determination of silica in water, Bull. Soc., Che., 33, 1131- 1140, 1923.
- Pacific Oceanographic Group. Handbook of oceanographic methods. Nanaimo, B.C., 1949.
- Tully, J.P. and N.M. Carter. A simplified procedure for colorimetric analyses of sea water. Jour. du Conseil, 13, 1, 1938.
- Tully, J.P. and A.J. Dodimead. Properties of the water in Georgia Strait. Journal of the Fisheries Research Board, in press.

STATION 1 November 7, 1930 10:07 - 11:10 PST Barometer: Air Temp:
Wind: Weather: Vis. of Ekman Sampler: Tide:

Depth Meters Yards	Cl°/..	S°/..	Temp °C	Sp.Gr. Situ (6c)	pH	O ₂ mg/l	O ₂ % Sat	SiO ₂ mg/l	PO ₄ mg/m ³	NO ₃ mg/l	NO ₂ mg/m ³
0	0	0	15.68	28.33	9.85	21.79	8.3	13.61	143.5	4.00	
0.914	1	3	15.78	28.51	9.60	21.99	8.3	14.21	149.0	2.20	
1.83	2	6	15.73	28.42	9.60	21.91	8.3	13.70	143.5	4.00	
3.66	4	12	15.76	28.48	9.60	21.96	8.1	13.72	143.8	1.80	
5.49	6	18	16.19	29.25	9.55	22.57	8.05	10.82	113.9	2.00	
9.14	10	30	16.35	29.54	9.35	22.82	7.9	10.24	107.5	3.60	
18.29	20	60	16.43	29.69	9.20	22.97	7.8	9.85	103.0	2.10	
27.43	30	90	16.47	29.76	9.20	23.02	7.9	8.19	85.6	3.00	
45.72	50	150	16.74	30.25	9.00	23.43	8.0	8.34	87.2	3.60	
91.44	100	300	17.05	30.81	9.30	23.83	7.9	7.50	79.2	3.00	
164.5	180	540	17.17	31.02	6.60	24.36	7.9	8.25	82.1	3.30	

STATION 1 December 10, 1930 12:56 - 14:11 PST Barometer: Air Temp:
Wind: ESE Weather: Overcast Vis. of Ekman Sampler: Tide:

0	0	0	15.83	28.60	8.05	22.28	7.9	12.20	123.6	---	
1.83	2	6	15.83	28.60	8.0	22.29	7.9	12.20	123.2	166	
3.66	4	12	15.84	28.62	8.0	22.30	7.9	12.30	124.2	143	
5.49	6	18	15.89	28.71	8.1	22.36	7.95	12.20	123.8	143	
9.14	10	30	16.32	29.49	8.5	22.91	7.9	11.20	115.1	161	
18.29	20	60	16.54	29.88	8.8	23.18	7.9	9.61	100.0	200	
27.43	30	90	16.64	30.07	8.9	23.30	7.8	8.90	92.7	192	
45.72	50	150	16.82	30.39	9.0	23.55	7.75	8.55	89.5	185	
86.9	95	285	17.02	30.75	9.3	23.78	7.8	7.84	82.7	185	
164.5	180	540	17.19	31.06	9.0	24.06	7.85	7.49	78.8	166	
320.0	350	1050	17.24	31.15	9.0	24.12	7.8	7.48	78.8	192	

STATION 1 January 28, 1931 14:42 - 15:53 PST Barometer: 30.15 in. Air Temp: 50°F
Wind: Calm Weather: Fine Vis. of Ekman Sampler: Tide:

0	0	0	14.33	25.90	8.60	20.09	7.9	9.82	99.6	162	0.90	10
0.914	1	3	14.33	25.90	8.66	20.08	7.9	9.75	98.4	157	----	7
1.83	2	6	14.78	26.71	8.60	20.72	7.9	9.68	98.0	165	0.80	10
3.66	4	12	15.50	28.01	8.15	21.80	7.8	9.75	98.7	176	1.10	7
5.49	6	18	15.55	28.10	7.62	21.94	7.8	9.70	97.0	185	0.90	7
9.14	10	30	15.86	28.66	7.39	22.41	7.85	9.31	92.6	191	1.00	7
18.29	20	60	16.01	28.93	7.38	22.62	7.9	9.45	94.5	185	1.05	5
27.43	30	90	16.34	29.52	7.25	23.11	7.9	8.76	87.6	186	1.20	2
45.72	50	150	16.66	30.10	7.23	23.56	7.9	7.40	74.3	193	1.20	Tr.
91.44	100	300	16.96	30.64	7.20	23.99	7.9	6.33	63.7	174	1.40	0
182.9	200	600	17.20	31.08	7.28	24.32	7.9	6.25	63.3	171	1.20	0
365.8	400	1200	17.25	31.17	7.9	24.31	7.9	4.97	51.2	183	1.20	0

STATION 1 February 27, 1931 11:10 - 12:20 PST Barometer: 30.00 in. Air Temp: 48.2°F
Wind: SE Mod. Weather: Fair Vis of Ekman Sampler: Tide

Depth	Cl°/..	S°/..	Temp	Sp.Gr.	pH	O ₂	O ₂	SiO ₃	PO ₄	NO ₃	NO ₂	
Meters/Yards			°C	Situ		mg/l	% Sat	mg/l	mg/m ³	mg/l	mg/m ³	
	Ft											
0	0	0	16.15	29.18	7.75	22.77	7.95	9.39	94.4	182	2.60	8
0.914	1	3	16.17	29.22	7.45	22.83	7.95	9.25	92.7	178	1.90	5
1.83	2	6	16.18	29.23	7.42	22.86	7.95	9.33	93.5	180	2.60	3
3.66	4	12	16.25	29.36	7.48	22.95	7.95	9.19	92.2	182	0.90	3
5.49	6	18	16.30	29.45	7.49	23.02	7.9	9.10	9.16	186	1.45	4
9.14	10	30	16.31	29.47	7.42	23.03	7.9	9.21	92.2	195	1.10	4
18.29	20	60	16.34	29.52	7.45	23.08	7.9	9.05	90.7	180	1.25	5
27.43	30	90	16.61	30.01	7.82	23.42	7.9	7.95	80.9	183	1.70	0
45.72	50	150	16.77	30.30	8.00	23.61	7.85	7.86	80.3	199	1.80	0
74.44	100	300	16.89	30.52	8.19	23.76	7.9	7.31	75.2	189	2.00	0
182.9	200	600	17.10	30.90	8.43	24.01	7.85	5.93	61.5	189	2.30	0
365.8	400/1200		17.18	31.04	8.70	24.01	7.85	5.00	52.2	199	2.00	0

STATION 1 March 24, 1931 10 52 - 11:55 PST Barometer: 30.00 in. Air Temp: 45.5°F
Wind: WNW Brisk Weather: Rain Vis. of Ekman Sampler: 4.6 m. Tide:

0	0	0	15.34	27.72	8.05	21.60	8.0	10.13	102.0	3.85	171	12
0.914	1	3	15.32	27.68	8.02	21.56	8.05	10.27	103.3	3.72	171	12
1.83	2	6	15.30	27.65	8.00	21.54	8.05	10.32	104.0	3.85	168	14
3.66	4	12	15.99	28.89	8.51	22.44	8.05	10.50	107.6	3.76	164	13
5.49	6	18	16.16	29.20	8.27	22.72	8.0	10.22	105.0	4.01	187	11
9.14	10	30	16.24	29.34	8.32	22.81	8.0	10.00	102.7	4.16	212	10
18.29	20	60	16.38	29.60	7.80	23.09	7.93	9.11	92.4	4.37	224	8
27.43	30	90	16.57	29.94	7.80	23.26	7.9	8.06	81.7	4.50	234	Tr.
45.72	50	150	16.72	30.21	8.00	23.54	7.85	7.40	76.1	4.55	228	0
74.44	100	300	16.95	30.62	8.10	23.85	7.85	6.93	71.3	4.76	210	2
182.9	200	600	17.09	30.88	8.36	24.01	7.8	5.98	61.5	5.14	228	0
365.8	400/1200		17.23	31.13	8.60	24.18	7.8	4.97	51.1	5.59	241	0

STATION 1 April 18, 1931 09:30 - 10:50 PST Barometer 30.31 in. Air Temp: 43.7°F
Wind: W Brisk Weather: Fine Vis. of Ekman Sampler: 3.6 m. Tide:

0	0	0	14.18	25.62	8.25	19.94	8.4	11.70	116.3	0.85	27	0.02	0
0.914	1	3	14.18	25.62	8.43	19.91	8.4	11.85	118.5	0.30	74	0.01	0
1.83	2	6	14.20	25.62	8.43	19.94	8.4	11.79	118.0	0.46	18	0.01	0
3.66	4	12	14.18	25.62	8.42	19.91	8.4	11.88	118.8	0.36	19	0.01	0
5.49	6	18	14.18	25.62	8.41	19.91	8.4	11.81	118.1	2.04	25	0.01	0
9.14	10	30	15.40	27.83	8.23	21.60	8.3	10.79	109.1	0.97	73	0.05	2
18.29	20	60	15.89	28.71	8.25	22.34	8.1	-----	-----	2.27	125	0.14	8
27.43	30	90	16.17	29.22	8.06	22.76	8.05	-----	-----	4.20	153	1.35	9
45.72	50	150	16.62	30.03	7.89	23.42	7.85	-----	-----	4.30	205	1.90	9
74.44	100	300	16.92	30.57	8.13	23.81	7.8	-----	-----	4.75	209	2.35	1
182.9	200	600	17.12	30.93	8.33	24.09	7.8	-----	-----	4.37	190	2.35	0
365.8	400/1200		17.21	31.09	8.58	24.45	7.8	-----	-----	5.67	197	2.85	0

STATION 1 May 28, 1931 11:45 - 13:35 PST Barometer: 30.20 in. Air Temp: 59.0°F
Wind: W Mod. Weather: Fine Vis. of Ekman Sampler: 4.5 m. Tide:

Depth Meters	Cl°/∞	S°/∞	Temp °C	Sp.Gr. Situ	pH	O ₂ mg/l	O ₂ % Sat	SiO ₃ mg/l	PO ₄ mg/m ³	NO ₃ mg/l	NO ₂ mg/m ³
0	14.74	26.64	14.2	19.72	8.45	10.31	117.2	0.69	36	0	0
1	14.74	26.64	14.65	19.65	8.45	10.37	118.7	0.73	34	0	0
2	14.70	26.56	14.60	19.62	8.45	10.37	118.7	0.77	34	0	0
4	14.75	26.65	13.29	19.62	8.4	10.61	118.3	0.80	37	0	Tr
6	15.14	27.36	12.20	20.66	8.4	11.39	125.0	0.58	40	0	0
10	15.80	28.55	11.34	21.73	8.25	10.71	116.3	1.08	76	0.5	Tr
20	16.27	29.40	9.23	22.73	7.95	8.37	87.6	2.38	195	1.4	2
30	16.41	29.65	8.40	23.05	7.9	7.70	79.3	2.43	215	2.0	9
50	16.63	30.05	8.05	23.41	7.85	6.99	71.4	2.66	221	2.4	1
100	16.84	30.43	8.08	23.70	7.85	6.86	70.5	2.84	256	2.3	Tr
200	17.15	30.99	8.27	24.10	7.85	6.03	62.5	2.92	256	2.5	Tr
360	17.14	30.97	8.50	24.06	7.85	5.71	59.4	3.10	264	2.1	Tr

STATION 1 June 20, 1931 10:38 - 11:47 PST Barometer: 30.05 in. Air Temp: 61.5°F
Wind: E Breeze Weather: Fine Vis. of Ekman Sampler: 5.0 m Tide:

0	10.45	18.89	16.40	13.37	8.4	9.00	102.0		21	0	0
1	10.47	18.93	16.30	13.42	8.2	9.00	101.4		40	0.02	0
2	11.11	20.08	16.00	14.37	8.3	9.40	107.7		30	0	0
4	13.24	23.93	13.60	17.83	8.35	11.52	127.2		40	0	Tr
6	15.34	27.72	11.92	21.00	8.35	11.71	128.2		57	Tr	2
10	15.90	28.73	10.56	22.01	8.0	9.00	96.3		55	0.45	11
20	16.42	29.67	9.02	22.97	7.9	7.24	75.5		40	0.82	Tr
30	16.48	29.78	8.60	23.12	7.85	6.99	72.2		52	0.95	0
50	16.62	30.03	8.24	23.38	7.85	7.05	72.4		46	0.93	0
100	16.87	30.48	8.26	23.73	7.85	6.88	70.8		47	1.19	Tr
200	17.10	30.90	8.42	24.02	7.8	5.65	58.6		50	1.01	0
400	17.19	31.06	8.78	24.09	7.85	5.95	62.3		42	0.84	9

STATION 1 July 15, 1931 :01 - 12:05 PST Barometer: 29.95 in. Air Temp: 63.3°F
Wind: NW Breeze Weather: Fine Vis. of Ekman Sampler: -- Tide:

0	9.98	18.04	17.10	12.58	8.3	9.51	108.2	2.00	25	Tr	0
1	10.63	19.22	16.48	13.61	8.35	9.75	110.8	1.86	27	Tr	0
2	11.30	20.43	15.80	14.67	8.2	9.85	103.3	1.73	40	0	0
4	13.75	24.85	14.38	18.32	8.2	10.29	115.8	1.57	62	Tr	0
6	15.19	27.45	13.00	20.59	8.6	10.50	117.0	1.42	80	0.50	Tr
10	15.78	28.51	11.31	21.71	8.0	7.59	82.3	1.90	196	0.83	15
20	16.28	29.42	10.07	22.61	7.85	7.60	81.9	2.08	200	0.96	9
30	16.42	29.67	9.41	22.91	7.85	6.89	72.4	2.35	229	1.39	Tr
50	16.60	29.99	8.82	23.26	7.85	6.65	69.0	2.80	242	1.16	0
100	16.91	30.55	8.82	23.70	7.8	6.18	64.5	2.84	266	1.58	0
200	17.12	30.93	8.51	24.03	7.8	5.49	57.1	3.25	267	1.54	0
400	17.26	31.18	8.77	24.19	7.8	5.35	56.1	3.30	243	1.13	0

STATION 1 August 14, 1931 10:45 - 11:54 PST Barometer: 30.10 in. Air Temp: 63.8°F
Wind: W Slight Weather: Fine Vis. of Ekman Sampler: 4.5 m Tide:

Depth Meters	Cl°/∞	S°/∞	Temp °C	Sp.Gr. Situ	pH	O ₂ mg/l	O ₂ % Sat	SiO ₃ mg/l	PO ₄ mg/m ³	NO ₃ mg/l	NO ₂ mg/m ³
0	13.05	23.57	17.54	16.71	8.4	9.02	107.5	1.19	42	0.0	11
1	13.08	23.64	17.45	16.77	8.5	9.33	111.2	1.26	40	0.0	0
2	13.09	23.66	17.38	16.79	8.45	9.39	112.0	1.17	47	0.0	Tr
4	13.74	24.83	17.24	17.71	8.5	9.19	109.8	1.06	41	0.0	0
6	13.80	24.94	16.58	17.94	8.5	9.52	104.8	1.62	46	0.0	0
10	15.30	27.65	14.46	20.46	8.3	9.35	108.0	1.15	68	0.0	20
20	16.07	29.04	11.06	22.16	7.95	7.47	82.7	2.20	146	0.71	2
25	16.20	29.27	10.22	22.48	7.9	6.62	70.6	2.92	160	1.31	20
30	16.40	29.63	9.54	22.87	7.85	6.33	66.8	2.96	179	1.31	0
50	16.65	30.08	9.08	23.29	7.85	6.12	64.0	3.20	197	1.25	0
100	16.92	30.57	8.98	23.68	7.85	5.93	62.4	3.01	192	1.25	0
200	17.10	30.90	8.61	23.99	7.8	5.49	57.4	3.05	210	1.04	0
400	17.35	31.35	8.95	24.29	7.85	5.23	55.2	3.05	210	1.37	0

STATION 1 Oct. 3, 1931 09:57 - 10:44 PST Barometer: 29.86 in. Air Temp: 53.6°F
Wind: SE Strong Weather: Vis. of Ekman Sampler: 3.5 m Tide:

0	14.77	26.69	11.75	20.23	8.05			2.20	135	0.96	11
1	14.92	26.96	11.75	20.44	8.0			2.15	155	1.23	21
2	15.31	27.66	11.77	20.97	8.0			2.20	155	0.64	23
4	15.58	28.15	11.55	21.39	8.0			2.27	158	0.90	11
6	15.81	28.57	11.30	21.75	8.0			2.27	165	1.52	11
10	16.06	29.02	10.93	22.16	7.9			2.49	183	1.60	11
20	16.40	29.63	9.95	22.81	7.8			2.66	209	0.80	5
30	16.48	29.78	9.81	22.92	7.8			3.10	240	0.78	5
50	16.60	29.99	9.37	23.18	7.8			2.97	259	0.73	2
107	16.79	30.34	9.32	23.44	7.8			3.01	258	0.72	0

STATION 1 Oct. 13, 1931 10:45 - 11:56 PST Barometer: 30.06 in. Air Temp: 50.0°F
Wind: Calm Weather: Vis. of Ekman Sampler: 5.0 m Tide:

0	15.71	28.39	11.37	21.60	8.0	9.82	106.7	1.63	166	0.82	13
1	15.72	28.40	11.38	21.62	8.05	9.75	106.0	1.61	151	0.88	15
2	15.72	28.40	11.37	21.62	8.05	9.79	106.3	1.82	142	0.78	16
4	15.73	28.42	11.35	21.63	8.0	9.90	107.1	1.74	144	0.80	14
6	15.71	28.39	11.32	21.60	8.0	9.75	105.8	1.82	149	0.81	16
10	15.70	28.37	11.34	21.59	8.0	9.45	102.7	1.86	161	0.78	15
20	16.16	29.20	10.36	22.40	7.9	8.12	87.0	2.07	213	1.14	16
30	16.51	29.83	9.60	23.02	7.8	6.03	64.0	2.15	244	1.75	0
50	16.60	29.99	9.28	23.19	7.8	5.50	57.9	2.23	240	1.75	0
100	16.70	30.17	9.59	23.28	7.8	5.39	58.6	2.20	229	1.83	0
200	17.44	31.51	9.27	24.37	7.8			2.34	228	1.65	0
405	17.32	31.29	9.14	24.22	7.85	5.17	54.9	0.58	232	1.53	0

STATION 1 November 23, 1931 12:49 - 13:56 PST Barometer: 30.30 in. Air Temp: 42.6°F
 Wind: Calm Weather: Vis. of Ekman Sampler: 6.0 m. Tide

Depth Meters	Cl°/..	S°/..	Temp. °C	Sp.Gr. Situ	pH	O ₂ mg/l	O ₂ % Sat	SiO ₃ mg/l	PO ₄ mg/m ³	NO ₃ mg/l	NO ₂ mg/m ³
0	14.89	26.91	7.28	21.05	7.95			2.41	150	1.0	14
1	14.92	26.96	7.31	21.08	7.75	9.40	92.6	2.28	169	1.07	13
2	14.98	27.07	7.40	21.16	7.8	9.41	93.0	2.23	144	1.00	13
4	15.34	27.72	7.60	21.65	7.9	9.43	94.0	2.13	143	1.19	15
6	15.41	27.85	7.80	21.73	7.8	9.40	94.4	3.24	156	1.19	15
10	15.68	28.33	8.20	22.05	7.8	9.15	93.0	2.63	136	1.48	15
20	15.83	28.60	8.76	22.18	7.9	8.98	92.5	2.62	138	1.42	11
30	16.12	29.13	9.03	22.55	7.9	7.33	83.5	2.66	167	1.97	Tr
50	16.68	30.14	9.45	23.23	7.6	5.30	55.8	2.73	181	1.57	0
100	16.97	30.66	9.38	23.69	7.7	5.87	62.2	2.88	175	2.19	0
200	17.21	31.09	9.28	24.04	7.8	5.05	53.5	2.97	173	1.94	0
400	17.32	31.29	9.19	24.21	7.7	4.65	49.5	3.36	175	2.14	0

STATION 1 January 6, 1932 14:48 - 15:30 PST Barometer: 30.40 in. Air Temp: 44.4°F
 Wind: Calm Weather: Vis. of Ekman Sampler: 7.0 m. Tide

0	15.90	28.73	7.80	22.41	8.0	9.38	93.5		113	1.77	4
1	15.87	28.68	7.26	22.44	7.9	9.36	93.0		117	1.77	7
2	15.87	28.68	7.32	22.44	7.9	9.71	96.7		119	1.68	2
4	15.92	28.77	7.22	22.51	7.95	9.35	93.0		120	1.75	0
6	15.88	28.69	7.24	22.45	7.9	9.30	92.6		122	1.63	Tr
10	15.89	28.71	7.92	22.38	7.95	9.33	93.7		113	2.22	3
20	16.03	28.96	7.12	22.69	7.95	9.15	91.0		113	2.29	Tr
30	16.06	29.02	7.76	22.54	7.9	8.37	84.4		124	2.59	0
50	16.58	29.96	7.60	23.40	7.5	6.57	66.5		129	2.22	0
100	16.93	30.59	8.28	23.93	7.8	7.09	73.2		114	2.27	0
200	17.03	30.77	8.28	24.08	7.9	6.80	70.4		122	2.28	0
400	17.20	31.08	9.72	23.93	7.8	4.35	46.6		123	2.84	0

STATION 1 January 20, 1932 10:57 - 11:42 PST Barometer: 30.37 in. Air Temp: 41.0°F
 Wind: SE Light Weather: Vis. of Ekman Sampler: 7.0 m. Tide

0	15.53	28.06	5.68	22.14	7.9	9.55	91.5	4.40	150	1.59	6
1	15.56	28.12	5.80	22.17	8.0	9.42	90.2	4.38	160	1.70	6
2	15.59	28.17	6.14	22.18	7.85	9.54	92.1	4.50	146	1.60	4
4	15.60	28.19	6.10	22.19	8.0	9.43	91.1	4.70	145	1.77	6
6	15.68	28.33	6.72	22.24	8.0	9.42	92.1	4.75	142	1.62	3
10	15.93	28.78	6.60	22.60	8.0	9.50	93.3	4.81	139	1.68	4
20	15.97	28.86	6.62	22.66	7.95	9.54	93.7	4.99	134	1.86	3
30	15.99	28.89	6.80	22.67	7.95	9.20	90.5	4.51	125	1.80	Tr
50	16.69	30.16	8.26	23.47	7.95	7.35	78.5	4.82	125	1.73	0
100	16.90	30.53	8.80	23.68	7.9	7.42	77.5	4.90	146	1.70	0
200	17.00	30.72	8.19	23.91	7.9	6.37	65.8	4.64	134	1.84	0
400	17.27	31.20	9.16	24.15	7.9	4.22	44.7	5.80	134	1.77	0

STATION A. March 11, 1932 21:52 - 22:15 PST Barometer: 30.14 in. Air Temp: 45.5°F
 Wind: W Light Weather: Vis. of Ekman Sampler: Tide HW

Depth Meters	Cl°/∞	S°/∞	Temp. °C	Sp. Gr. Situ	pH	O ₂ mg/l	O ₂ % Sat.	SiO ₃ mg/l	PO ₄ mg/m ³	NO ₃ mg/l
0	15.65	28.28	7.8	22.06	8.0	10.70	107.6	7.0	145	1.48
1	15.76	28.48	7.8	22.22	8.1	10.67	107.0	6.0	111	2.46
2	15.64	28.26	6.8	22.17	8.1	10.74	104.2	4.9	139	2.90
4	15.81	28.57	7.0	22.39	8.0	10.70	105.5	7.0	143	3.10
6	15.81	28.57	6.9	22.40	8.0	10.69	105.1	6.1	133	3.15
10	16.00	28.91	6.6	22.70	8.0	10.38	102.0	6.3	153	3.31
20	16.20	29.27	7.9	22.82	7.8	9.64	96.8	10.3	183	3.01
30	16.28	29.42	7.1	23.04	7.9	9.25	93.4	5.35	140	3.73
50	16.59	29.97	7.8	23.38	7.9	7.95	80.7	6.4	147	2.69
100	16.75	30.26	7.8	23.61	7.9	7.85	79.9	7.0	145	----
200	16.96	30.64	8.6	23.80	7.9	6.11	63.5	7.5	174	2.60

STATION A. March 12, 1932 01:57 - 02:35 PST Barometer: 30.12 in. Air Temp:
 Wind: W Light Weather: Vis. of Ekman Sampler: Tide LW

0	15.54	28.08	6.5	22.07	8.1	10.76	105.0	----	149	0
1	15.81	28.57	6.8	22.41	8.0	10.90	107.2	----	149	2.43
2	15.80	28.55	6.9	22.38	8.0	10.62	104.9	----	138	3.70
4	15.94	28.80	6.7	22.61	8.0	10.60	104.3	3.90	143	0.50
6	16.01	28.93	6.5	22.73	8.0	10.67	104.8	3.60	141	5.00
10	16.16	29.20	6.6	22.93	8.0	10.43	102.9	6.02	135	9.50
20	16.34	29.52	6.8	23.16	7.9	9.69	96.1	4.55	150	4.40
30	16.56	29.92	7.4	23.40	7.9	8.26	83.2	4.86	149	10.00
50	16.48	29.78	7.8	23.23	7.9	7.77	80.4	6.30	149	4.11
100	16.67	30.12	7.8	23.50	7.9	7.85	79.9	6.80	157	8.5
200	17.02	30.75	8.5	23.90	7.8	6.09	63.3	3.95	176	10.0

STATION A. March 12, 1932 07:48 - 08:17 PST Barometer: 30.22 in. Air Temp: 38.9°F
 Wind: S Light Weather: Vis. of Ekman Sampler: 7.0 m. Tide: HHW

0	15.56	28.12	6.5	22.10	8.0	11.05	107.8	4.96	138	4.38
1	15.59	28.17	6.5	22.14	8.0	10.92	106.5	4.92	148	5.43
2	15.57	28.13	6.7	22.08	8.0	11.17	109.1	4.92	150	6.50
4	15.74	28.44	6.8	22.31	8.0	10.94	107.8	3.90	150	2.62
6	15.81	28.57	6.9	22.40	8.0	10.82	106.9	4.98	146	2.84
10	15.98	28.87	6.5	22.69	8.0	10.57	103.6	4.82	148	4.70
20	16.18	29.23	6.8	22.94	7.8	9.71	96.0	5.45	160	5.10
30	16.03	29.87	6.8	22.72	7.9	9.56	94.3	5.60	168	3.0
50	16.56	29.92	7.8	23.35	7.9	7.83	79.6	5.50	162	3.15
100	16.69	30.16	7.8	23.53	7.9	7.95	80.8	5.11	161	6.50
200	17.05	30.81	8.7	23.94	7.7	6.08	63.5	5.70	163	4.20

STATION A March 12, 1932 15:06 - 15:26 PST Barometer: -- Air Temp: 46.6°F
Wind: E Weather: Fair Vis. of Ekman Sampler: Tide: LLW

Depth Meters	Cl°/∞	S°/∞	Temp °C	Sn. Gr. Situ	pH	O ₂ mg/l	O ₂ % Sat.	SiO ₃ mg/l	PC ₄ mg/m ³	NO ₃ mg/l
0	15.50	28.01	6.5	22.01	8.0	11.77	114.5	3.73	186	2.88
1	15.53	28.06	7.1	21.98	7.9	11.18	110.1	4.03	180	0.77
2	15.54	28.08	7.0	22.01	8.0	11.31	111.5	4.70	163	0
4	15.68	28.33	7.1	22.19	8.0	11.12	109.9	3.85	190	2.80
6	15.91	28.75	6.6	22.57	8.0	10.61	104.1	3.80	168	3.15
10	16.01	28.93	6.6	22.72	8.0	10.38	102.0	4.28	186	1.63
20	16.18	29.23	6.8	22.94	7.8	9.73	96.4	4.03	245	3.80
30	16.30	29.45	7.0	23.08	7.9	9.45	94.1	4.11	177	3.60
50	16.55	29.90	7.6	23.35	7.9	8.25	83.4	3.42	228	1.48
100	16.84	30.43	7.8	23.74	7.8	8.02	81.7	5.03	210	1.48
200	16.92	30.57	8.4	23.77	7.8	6.22	64.3	4.00	214	3.36

STATION A June 20, 1932 20:37 - 21:10 PST. Barometer: 30.05 in. Air Temp: 56.8°F
Wind: Calm Weather: Vis. of Ekman Sampler: Tide: HHW

0	15.13	27.34	14.3	20.25	8.4	9.32	106.5	1.21	87
1	15.20	27.47	14.1	20.39	8.4	10.19	116.5	1.16	107
2	15.53	28.06	12.9	21.07	8.5	10.51	119.2	1.14	100
4	16.08	29.05	11.5	22.09	8.4	9.42	104.6	1.47	120
6	16.27	29.40	10.7	22.50	8.3	8.74	85.1	2.85	128
10	16.53	29.87	9.9	22.99	8.0	7.44	80.4	3.79	161
20	16.63	30.05	9.1	23.26	8.0	6.99	74.0	4.08	170
30	16.72	30.21	8.75	23.43	8.0	6.75	71.5	4.50	160
50	16.80	30.35	8.5	23.59	8.0	6.95	73.5	4.50	156
100	17.09	30.88	8.9	23.93	7.9	6.69	70.8	4.79	177
150	17.20	31.08	7.9	24.24	7.2	6.29	65.0	3.00	163

STATION A June 21, 1932 01:55 - 02:21 PST. Barometer: 30.00 in. Air Temp: --
Wind: SE Light Weather: Fog. Vis. of Ekman Sampler: Tide: LW

0	15.25	27.56	14.0	20.48	8.6	10.45	119.6	0.93	71
1	15.25	27.56	14.9	20.30	8.6	10.31	120.3	0.87	73
2	15.34	27.72	14.6	20.49	8.6	10.51	122.7	1.04	75
4	15.77	28.49	12.25	21.53	8.5	9.80	108.9	2.17	111
6	16.22	29.31	10.6	22.44	8.3	8.31	90.6	3.33	154
10	16.46	29.74	10.0	22.87	8.1	7.85	83.8	3.69	168
20	16.59	29.97	9.4	23.15	8.0	7.12	75.3	4.02	174
30	16.61	30.01	9.3	23.20	8.0	7.10	75.0	4.47	186
50	16.79	30.34	8.4	23.58	8.0	6.74	69.6	4.47	194
100	17.01	30.73	7.8	23.98	7.9	6.72	69.4	4.41	193
150	17.15	30.99	7.9	24.16	7.9	6.61	68.3	4.92	148

STATION A June 21, 1932 05:46 - 06:22 PST Barometer: --
Wind: SE Light Weather: Fog Vis. of Ekman Sampler:

Air Temp: 56.8°F
Tide HW

Depth Meters	Cl°/..	S°/..	Temp °C	Sp. Gr. Situ	pH	O ₂ mg/l	O ₂ % Sat.	SiO ₃ mg/l	PO ₄ mg/m ³	NO ₃ mg/l
0	15.22	27.50	14.9	20.25	8.4	10.70	124.7	0.39	63	
1	15.39	27.81	13.6	20.75	8.4	10.48	119.8	0.85	79	
2	15.63	28.24	13.2	21.16	8.4	10.43	118.4	1.30	74	
4	15.97	28.86	11.9	21.87	8.2	10.10	112.2	1.59	99	
6	16.12	29.13	11.3	22.19	8.1	9.43	102.7	2.15	113	
10	16.29	29.43	10.7	22.53	8.0	8.99	97.2	2.84	112	
20	16.53	29.87	9.7	23.02	8.0	7.14	77.1	3.90	155	
30	16.59	29.97	9.2	23.18	7.9	6.86	72.6	4.28	155	
50	16.76	30.28	8.7	23.50	7.9	6.75	71.5	4.80	158	
100	16.98	30.68	7.9	23.92	7.9	6.95	71.9	4.57	162	
150	17.12	30.93	7.8	24.13	7.9	6.92	71.6	----	171	

STATION A June 21, 1932 13:15 - 13:41 PST. Barometer: 30.00 in.
Wind: SE Light Weather: Overcast Vis. of Ekman Sampler:

Air Temp. 58.7°F
Tide LLW

0	15.37	27.77	14.6	20.52	8.5	11.81	137.7	0.17	70	
1	15.37	27.77	14.5	20.55	8.5	11.30	131.8	0.52	65	
2	15.45	27.92	14.2	20.72	8.5	11.58	132.5	0.43	64	
4	15.75	28.46	13.1	21.35	8.5	11.70	132.7	0.20	69	
6	15.93	28.78	12.5	21.70	8.4	11.61	131.6	0.40	73	
10	16.21	29.29	10.8	22.40	8.1	9.18	100.1	1.73	135	
20	16.59	29.97	9.4	23.15	7.95	7.13	75.3	3.62	160	
30	16.64	30.07	9.2	23.25	7.9	7.07	74.8	3.88	168	
50	16.78	30.32	8.6	23.54	7.9	6.63	69.9	3.80	165	
100	16.96	30.64	8.0	23.88	7.9	6.53	67.4	3.90	158	
150	17.16	31.00	7.9	24.18	7.85	6.46	67.0	4.20	168	

STATION A November 10, 1932 09:35 - 09:45 PST Barometer: 30.47 in. Air Temp: 42.8°F
Wind: NE Weather: Clear Vis. of Ekman Sampler: Tide: LW

0	14.24	25.73	8.2	20.02	8.0	9.75	93.7	2.75		
1	14.24	25.73	8.2	20.01	8.0	9.60	91.3	2.70		
2	14.24	25.73	8.3	20.00	8.0	9.57	94.9	2.90		
4	14.54	26.27	8.8	20.36	8.0	9.35	94.8	2.50		
6	14.72	26.60	8.8	20.62	8.0	9.31	94.3	2.56		
10	14.95	27.01	9.0	20.91	8.0	9.11	93.3	2.88		
20	16.22	29.31	9.2	22.66	7.9	7.88	82.4	2.92		
30	16.35	29.54	9.1	22.85	7.85	6.58	68.7	3.35		
50	16.51	29.83	9.05	23.09	7.8	5.72	58.7	3.75		
100	16.85	30.44	9.4	23.52	7.8	4.99	52.7	3.50		
150	17.09	30.88	9.2	23.89	7.8	4.81	50.8	3.60		

STATION A November 10, 1932 14:56 - 15:03 PST Barometer: 30.39 in. Air Temp. 44.6°F
 Wind: NE Light Weather: Dull Vis. of Ekman Sampler: Tide: HHW

Depth Meters	Cl°/..	S°/..	Temp. °C	Sp. Gr. Situ	pH	O ₂ mg/l	O ₂ % Sat.	SiO ₃ mg/l	PO ₄ mg/m ³	NO ₃ mg/l
0	10.86	19.63	8.1	15.28	7.9	9.68	92.5	3.40		
1	13.18	23.82	8.2	18.52	7.9	9.64	95.3	3.05		
2	14.34	26.00	8.6	20.18	7.95	9.32	93.3	2.80		
4	14.88	26.89	9.0	20.81	7.95	9.02	92.3	2.80		
6	14.90	26.92	9.0	20.84	7.9	9.02	92.3	2.85		
10	15.17	27.41	8.9	21.23	7.9	8.74	88.6	2.95		
20	15.69	28.35	9.4	21.89	7.9	7.08	73.8	3.15		
30	16.33	29.51	9.1	22.83	7.8	7.08	73.9	3.08		
50	16.47	29.76	9.05	23.04	7.8	5.92	61.2	3.15		
100	15.91	28.75	9.4	22.19	7.8	4.82	50.2	3.25		
150	17.06	30.82	9.2	23.84	7.8	4.82	50.8	3.50		

STATION A November 10, 1932 22:05 - 22:15 PST Barometer: 30.34 in. Air Temp: 43.7°F
 Wind: Calm Weather: Rain Vis. of Ekman Sampler: Tide LLW

0	14.17	25.61	8.4	19.89	8.1	10.4	104.0	3.10		
1	14.23	25.72	8.5	19.97	8.0	9.91	99.4	2.92		
2	14.63	26.44	8.7	20.00	8.0	9.59	97.1	2.62		
4	15.14	27.36	9.0	21.18	8.0	9.19	94.4	2.73		
6	15.20	27.47	9.0	21.26	8.0	9.19	94.4	2.73		
10	15.37	27.77	9.15	21.48	8.0	9.10	93.9	2.73		
20	15.93	28.78	9.25	22.24	8.0	8.14	84.2	2.88		
30	16.13	29.14	9.2	22.53	7.9	6.45	67.3	2.92		
50	16.49	29.79	9.0	23.08	7.8	5.81	60.4	3.00		
100	16.78	30.32	9.05	23.48	7.8	4.78	50.0	3.20		
150	17.03	30.77	9.1	23.82	7.8	4.84	50.8	3.50		

STATION B March 17, 1932 19:58 - 20:18 PST Barometer: 30.00 in. Air Temp: 44.6°F
Wind: SE Light Weather: Fog Vis. of Ekman Sampler: Tide LLW

Depth Meters	Cl°/..	S°/..	Temp. °C	Sp. Gr. Situ	pH	O ₂ mg/l	O ₂ % Sat.	SiO ₃ mg/l	PO ₄ mg/m ³	NO ₃ mg/l
0	5.06	9.16	5.4	7.29	7.8	11.89	99.4	6.19	86	
1	9.52	17.21	6.2	13.57	8.0	11.20	100.4	4.68	136	
2	11.84	21.40	6.8	16.79	8.1	10.88	101.8	3.56	138	
4	15.19	27.45	7.0	21.51	8.1	10.98	107.9	3.55	163	
6	16.28	29.42	6.8	23.08	8.0	9.91	98.1	3.31	160	
10	16.50	29.81	6.9	23.38	8.0	9.34	92.9	2.65	153	
20	16.55	29.90	6.8	23.45	8.0	9.57	95.2	2.76	168	
30	16.90	30.53	7.6	23.85	7.95	7.60	77.3	2.92	168	
50	16.99	30.70	7.7	23.96	7.95	7.49	75.9	3.53	180	
80	16.94	30.61	6.9	24.00	8.0	8.27	82.9	2.72	168	
130	17.21	31.09	7.3	24.33	7.9	7.67	77.7	----	171	

STATION B March 18, 1932 03:27 - 03:50 PST Barometer: 29.70 in. Air Temp: 47.3°F
Wind: SE Fair Weather: Clear Vis. of Ekman Sampler: Tide: HHW

0	11.87	21.46	7.2	16.79	8.1	9.50	89.9	4.72	87	3.54
1	14.09	25.46	6.9	19.96	8.0	9.88	95.5	4.20	103	2.84
2	15.19	27.45	7.1	21.50	8.0	9.84	96.9	3.56	110	4.17
4	15.56	28.12	7.1	22.02	8.1	9.60	94.6	3.78	106	5.38
6	15.91	28.75	6.8	22.55	8.0	9.66	95.2	3.78	110	5.31
10	16.49	29.79	6.8	23.38	8.0	9.14	90.8	3.35	112	5.53
20	16.77	30.30	7.2	23.72	7.95	8.10	81.5	3.89	113	5.76
30	16.82	30.39	7.1	23.81	7.9	8.06	80.8	4.31	110	4.64
50	16.93	30.59	7.3	23.93	7.9	7.75	78.1	3.63	123	5.85
80	17.06	30.82	7.0	24.15	8.0	----	----	2.74	117	7.33
130	17.06	30.82	7.3	24.11	7.9	7.10	71.9	3.68	114	4.69

STATION B March 18, 1932 09:08 - 09:22 PST Barometer: 29.67 in. Air Temp: 47.8°F
Wind: SE Light Weather: Vis. of Ekman Sampler: 3.0 m. Tide: LW

0	13.91	25.14	7.1	19.69	8.1	9.88	95.5	2.34	111	3.48
1	14.23	25.72	7.0	20.16	8.1	10.00	97.0	2.85	157	3.15
2	14.61	26.40	7.1	20.68	8.1	9.75	95.2	3.15	125	2.66
4	15.55	28.10	7.1	22.01	8.1	9.62	94.8	2.43	135	3.01
6	16.13	29.14	6.9	22.85	8.1	9.33	92.7	2.74	117	2.84
10	16.42	29.67	6.9	23.26	8.1	9.04	89.8	2.14	160	2.04
20	16.70	30.15	6.9	23.10	8.0	9.08	90.1	2.55	107	2.43
30	16.90	30.53	7.1	23.92	8.0	8.08	81.1	2.28	142	2.07
50	16.99	30.70	7.1	24.04	8.0	7.89	79.3	2.76	119	2.27
80	17.16	31.00	7.1	24.29	8.0	7.80	78.7	2.73	150	2.40
130	17.24	31.15	7.5	24.34	7.9	7.01	71.3	----	150	2.56

STATION B March 18, 1932 12:42 - 12:53 PST Barometer: 29.67 in. Air Temp: 46.0°F
Wind: SW Light Weather: Vis. of Ekman Sampler: Tide: HW

Depth. Meters	Cl ⁻ /..	S ²⁺ /..	Temp. °C	Sp. Gr. Situ	pH	O ₂ mg/l	O ₂ % Sat	SiO ₃ mg/l	PO ₄ mg/m ³	NO ₃ mg/l
0	6.61	11.96	8.0	9.30	7.7	10.92	94.9	5.24	85	
1	12.62	22.81	7.8	17.79	7.8	10.00	96.6	4.08	114	
2	13.44	24.29	7.6	18.97	7.8	9.84	95.8	4.19	114	
4	14.50	26.20	7.1	20.52	8.0	9.84	95.9	3.55	120	
6	16.30	29.45	7.0	23.08	7.9	9.23	91.9	3.15	121	
10	16.75	30.26	7.1	23.70	7.8	8.46	84.7	3.09	113	
20	16.73	30.23	7.1	23.67	7.9	8.65	86.9	3.74	144	
30	16.85	30.44	7.2	23.84	7.9	7.98	80.3	2.94	129	
50	17.01	30.73	7.2	24.06	7.8	7.74	78.0	4.37	132	
80	17.12	30.93	7.0	24.24	7.8	7.90	79.6	3.75	135	
130	17.26	31.18	7.4	24.38	7.7	7.22	73.3	2.96	130	

STATION B July 14, 1932 17:07 - 17:29 PST Barometer: 30.02 in. Air Temp: 60.8°F
Wind: Calm Weather: Rain Vis. of Ekman Sampler: Tide: HHW

0	1.44	2.63	15.0	1.19	7.8	10.06	97.2	5.25	47	
1	11.63	21.02	14.0	15.47	8.4	9.30	96.8	1.49	91	
2	13.31	24.05	13.5	17.88	8.4	9.66	106.4	1.09	109	
4	13.97	25.25	13.3	18.84	8.4	9.70	107.2	1.12	108	
6	15.13	27.34	12.4	20.61	8.3	8.38	92.5	1.63	121	
10	15.73	28.42	11.6	21.59	8.3	7.60	82.8	2.09	134	
20	16.56	29.92	10.9	22.87	8.3	7.04	76.6	2.82	159	
30	16.63	30.05	10.2	23.08	8.3	6.67	71.4	2.85	159	
50	16.83	30.41	9.9	23.41	8.25	6.29	67.2	3.12	174	

STATION B July 14, 1932 20:48 - 21:05 PST Barometer 30.01 in. Air Temp: 56.3°F
Wind: SE Light Weather: Rain Vis. of Ekman Sampler: Tide: LW

0	5.42	9.81	15.1	6.68	8.4	9.57	100.0	3.79	72	
1	12.66	22.88	14.1	16.87	8.5	9.78	108.2	0.77	92	
2	12.97	23.44	13.9	17.34	8.5	9.54	105.4	0.67	90	
4	13.27	23.98	13.8	17.78	8.4	10.14	112.2	0.70	88	
6	14.71	26.58	12.6	19.99	8.4	8.47	93.4	1.55	119	
10	15.68	28.33	11.6	21.52	8.4	7.56	82.4	2.22	144	
20	16.61	30.01	10.2	23.05	8.3	-----	-----	2.80	157	
30	16.80	30.35	9.9	23.37	7.9	5.94	63.7	3.25	142	
50	17.20	31.08	9.6	23.98	8.0	5.74	61.2	3.10	174	

STATION B July 15, 1932 01:21 - 01:29 PST Barometer: 30.00 in. Air Temp: 55.4°F
Wind: SE Light Weather: Rain Vis. of Ekman Sampler: Tide: HW

0	0.66	1.18	15.3	-----	7.8	10.09	100.5	5.85	Tr	
1	9.00	16.28	14.0	11.83	8.5	9.18	97.4	2.34	51	
2	9.50	17.18	14.0	12.52	8.5	94.4	107.0	1.71	52	
4	13.09	23.66	14.1	17.47	8.5	10.34	114.9	0.27	--	
6	13.88	25.08	13.8	18.62	8.5	10.28	114.4	0.34	50	
10	16.18	29.23	10.9	22.34	8.4	6.76	73.1	3.20	45	
20	16.47	29.76	10.4	22.83	8.3	6.60	70.1	3.38	145	
30	16.80	30.35	9.9	23.37	8.3	6.27	66.8	3.17	149	
50	16.85	30.44	9.5	23.50	8.3	6.22	70.09	3.40	168	

STATION B July 15, 1932 09:24 - 09:30 PST Barometer: 29.95 in. Air Temp: 55.4°F
Wind: SE Light Weather: Rain Vis. of Ekman Sampler: Tide: LLW

Depth Meters	Cl°/..	S°/..	Temp: °C	Sp.Gr. Situ	pH	O ₂ mg/l	O ₂ % Sat.	SiO ₃ mg/l	PO ₄ mg/m ³	NO ₃ mg/l
0	1.20	2.20	13.8	1.03	7.7	9.80	96.0	2.75	38	
1	3.56	6.46	14.0	4.44	8.1	9.70	97.0	2.95	39	
2	8.86	16.02	14.2	11.60	8.5	9.76	103.5	2.09	45	
4	12.42	22.45	14.4	16.48	8.5	9.69	106.4	0.76	43	
6	14.50	26.20	13.0	19.63	8.45	8.36	89.2	1.29	75	
10	16.05	29.00	11.1	22.12	8.1	6.91	75.0	2.62	119	
20	16.60	29.99	10.1	23.06	7.9	6.44	68.8	3.12	144	
30	16.76	30.28	9.9	23.32	7.9	6.18	66.0	3.08	135	
50	16.92	30.57	9.6	23.59	7.85	5.94	63.2	3.22	158	

STATION B October 25, 1932 20:50 - 21:10 PST Barometer: 30.30 in. Air Temp: 53.6°F
Wind: NW Weather: Fair Vis. of Ekman Sampler: Tide: LW

0	8.52	15.41	10.0	11.75	8.3	10.13	98.2	3.55		
1	8.55	15.46	10.0	11.80	8.3	10.12	98.4	4.20		
2	8.70	15.73	10.0	12.00	8.3	10.13	98.6	3.42		
4	11.23	20.30	10.1	15.54	8.3	9.76	97.9	2.92		
6	15.61	28.21	9.8	21.72	8.0	6.33	66.5	3.06		
10	16.13	29.14	9.6	22.47	8.1	5.72	60.3	3.10		
20	16.60	29.99	9.3	23.19	7.8	5.52	58.1	3.25		
30	16.66	30.10	9.5	23.23	8.1	5.46	57.6	3.06		
50	16.82	30.39	9.6	23.45	8.0	5.32	56.4	3.25		

STATION B October 26, 1932 02:07 - 02:15 PST Barometer: 30.30 in. Air Temp: 49.7°F
Wind: Calm Weather: Overcast Vis. of Ekman Sampler: Tide: HW

0	3.11	5.64	9.5	4.31	8.1	10.2	92.4	----		
1	8.33	15.07	10.0	11.49	8.3	10.1	97.6	2.30		
2	11.27	20.37	10.1	15.77	8.4	9.89	99.4	2.50		
4	13.31	24.05	10.2	18.43	8.4	9.21	94.9	2.27		
6	14.38	25.99	10.4	19.90	8.4	8.64	90.6	2.15		
10	16.40	29.63	9.4	22.89	8.2	5.72	60.1	2.45		
20	16.60	29.99	9.5	23.16	8.2	5.48	57.8	2.35		
30	16.62	30.03	9.6	23.16	8.2	5.44	57.6	2.62		
50	16.81	30.37	9.6	23.44	8.2	5.17	54.8	2.43		

STATION B October 26, 1932 09:23 PST Barometer: 30.22 in. Air Temp: 50.0°F
Wind: NE Weather: Fog Vis. of Ekman Sampler: Tide: LLW

0	7.84	14.18	9.7	5.40	7.95	9.96	95.5	3.50		
1	8.87	16.04	9.8	12.27	8.00	9.84	95.4	3.35		
2	9.44	17.07	9.8	13.07	8.00	9.91	96.6	3.20		
4	13.42	24.25	10.1	18.60	8.00	8.51	87.5	2.85		
6	14.34	25.91	-----	19.91	7.90	7.79	83.0	3.03		
10	15.41	27.85	9.7	21.45	7.90	6.35	66.4	3.05		
20	16.55	29.90	9.3	23.11	7.90	5.27	55.4	3.10		
30	16.68	30.14	9.5	23.26	7.90	5.37	56.7	3.12		
50	16.79	30.34	9.6	23.40	7.85	5.32	56.5	3.31		

STATION B October 26, 1932 14:37 - 14:43 PST Barometer 30.15 in. Air Temp: 54.0°F
 Wind: Calm Weather: Cloudy Vis. of Ekman Sampler: Tide: HHW

Depth Meters	Cl°/..	S°/..	Temp °C	Sp. Gr. Situ	pH	O ₂ mg/l	O ₂ % Sat.	SiO ₃ mg/l	PO ₄ mg/m ³	NO ₃ mg/l
0	5.86	10.61	10.0	4.72	7.8	10.3	97.1	2.50		
1	12.64	22.85	10.3	17.48	8.0	9.56	96.9	2.43		
2	14.25	25.75	10.1	19.77	8.0	8.30	85.3	2.56		
4	15.41	27.85	10.0	21.41	8.0	7.44	78.3	2.82		
6	15.63	28.24	9.9	21.73	7.95	7.27	76.6	2.66		
10	16.38	29.60	9.75	22.81	7.9	6.38	67.5	2.73		
20	16.49	29.79	9.6	22.99	7.85	5.83	59.8	2.15		
30	16.61	30.01	9.6	23.15	7.85	5.68	60.2	2.30		
50	16.65	30.08	9.5	23.22	7.85	5.59	58.9	2.30		

STATION C March 18, 1932 20:00 - 20:12 PST. Barometer: 29.80 in. Air Temp: 50.0°F
Wind: S Breeze Weather: Vis. of Ekman Sampler: Tide: LLW

Depth Meters	Cl°/..	S°/..	Temp. °C	Sp. Gr. Situ	pH	O ₂ mg/l	O ₂ % Sat.	SiO ₃ Mg/l	PO ₄ mg/m ³	NO ₃ mg/l
0	14.11	25.50	7.3	19.94	7.9	10.0	97.5	4.75	98	3.15
1	14.31	25.86	8.0	20.14	8.0	10.13	100.7	5.21	146	3.48
2	14.84	26.82	7.4	20.96	8.0	10.14	99.9	4.55	85	3.20
4	15.31	27.66	7.1	21.66	8.0	10.28	101.2	4.73	113	4.68
6	15.80	28.55	6.9	22.38	8.0	9.83	96.0	4.72	112	5.43
10	16.57	29.94	7.0	23.46	7.9	8.42	83.9	4.30	129	5.91
20	16.75	30.26	7.1	23.70	7.8	7.99	80.0	4.51	104	6.70
30	16.84	30.43	7.2	23.81	7.8	8.07	81.2	4.38	142	5.43
50	17.11	30.91	7.5	24.16	7.8	7.55	76.9	3.95	128	3.42
100	17.29	31.24	6.9	24.50	7.8	7.60	76.4	4.11	120	4.03

STATION C March 19, 1932 03:45 - 03:57 PST Barometer 29.80 in. Air Temp: 45.2°F
Wind: SW Light Weather: Vis. of Ekman Sampler: Tide: HHW

0	16.18	29.23	7.3	22.88	8.1	9.46	94.6	5.48	160	4.03
1	16.18	29.23	7.2	22.89	8.0	9.45	94.4	4.90	150	1.40
2	16.15	29.18	7.2	22.84	8.1	9.49	94.7	5.01	146	3.24
4	16.18	29.23	7.1	22.90	8.0	9.45	94.3	5.25	140	4.68
6	16.23	29.33	7.0	22.98	8.0	9.43	93.9	4.98	140	5.29
10	16.40	29.63	6.9	23.24	7.9	9.01	89.6	5.38	142	4.68
20	16.62	30.03	7.0	23.53	7.8	8.54	85.2	4.79	163	6.00
30	16.81	30.37	7.0	24.05	7.9	8.27	82.9	3.95	148	0.52
50	16.92	30.57	6.9	23.97 ⁸	7.8	8.30	83.0	3.50	153	3.34
100	17.33	31.31	6.9	24.56	7.9	7.53	75.8	3.48	134	2.62

STATION C March 19, 1932 09:39 - 09:47 PST Barometer: 29.80 in. Air Temp: 45.5°F
Wind: SE Breeze Weather: Vis. of Ekman Sampler: 4.0 m Tide: LW

0	15.17	27.41	7.1	21.47	8.0	10.0	98.5	4.30	140	2.06
1	15.26	27.57	7.15	21.59	7.9	9.81	96.8	4.34	134	2.32
2	15.69	28.35	7.1	22.21	7.9	9.86	97.4	4.65	138	1.53
4	16.28	29.42	7.0	23.05	7.9	9.74	96.9	5.14	138	2.04
6	16.52	29.85	6.9	23.41	7.9	9.06	89.1	4.13	146	2.49
10	16.73	30.23	7.1	23.67	7.8	8.50	85.2	5.34	136	3.10
20	16.80	30.35	7.1	23.78	7.8	8.15	81.7	5.14	162	2.52
30	16.93	30.59	7.0	23.97	7.8	8.30	83.2	5.18	150	2.13
50	17.07	30.84	7.0	24.17	7.7	8.20	82.4	6.12	136	2.73
100	17.35	31.35	6.9	24.58	7.7	8.16	82.4	6.00	121	2.62

STATION C March 19, 1932 13:53 - 14:02 PST Barometer: 29.82 in. Air Temp: 49.5°F
Wind: SE Weather: Fair Vis. of Ekman Sampler: 5.0 m Tide: HW

Depth Meters	Cl°/..	S°/..	Temp. °C	Sp. Gr. Situ	pH	O ₂ mg/l	O ₂ % Sat.	SiO ₃ mg/l	PO ₄ mg/m ³	NO ₃ mg/l
0	16.01	28.93	7.6	22.59	7.9	9.84	98.9	5.55	171	1.55
1	16.05	29.00	7.5	22.66	7.9	9.72	97.5	5.50	177	2.43
2	16.16	29.20	7.2	22.86	7.9	9.84	98.1	5.15	171	2.52
4	16.29	29.43	7.0	23.07	7.9	9.50	94.5	5.94	177	2.78
6	16.51	29.83	6.9	23.39	7.9	9.03	89.8	5.18	176	2.38
10	16.70	30.17	7.1	23.64	7.8	8.65	86.6	4.98	178	3.36
20	16.90	30.53	7.1	23.92	7.8	8.06	80.8	4.92	180	2.57
30	17.00	30.72	6.9	24.09	7.8	8.29	83.0	5.31	186	3.10
50	17.09	30.88	7.0	24.20	7.8	8.02	80.6	5.31	183	3.36
100	17.31	31.27	6.9	24.63	7.8	7.74	78.0	5.68	175	2.97

Station C June 23, 1932 08:21 - 08:28 PST Barometer 30.13 in. Air Temp: --
Wind SW Light Weather: Clear Vis. of Ekman Sampler: Tide HW

0	14.43	26.08	13.25	19.49	8.5	11.31	125.3	0.46	64
1	14.91	26.94	13.10	20.18	8.5	11.80	131.0	0.50	78
2	15.65	28.28	12.40	21.33	8.2	11.50	127.5	0.54	69
4	16.33	29.51	11.1	22.51	8.1	9.44	103.9	1.89	123
6	16.50	29.81	10.8	22.80	8.1	8.89	96.2	2.19	132
10	16.60	29.63	10.8	22.67	8.1	8.85	97.9	2.08	129
20	16.87	30.48	10.0	23.45	8.0	7.51	80.4	2.95	138
30	17.03	30.77	9.9	23.69	8.0	7.33	78.5	3.31	144
50	17.08	30.86	9.1	23.89	7.95	7.28	76.7	3.80	155
100	17.37	31.38	9.3	24.26	7.95	6.90	73.2	3.54	147

Station C June 23, 1932 14:52 - 14:58 PST Barometer: 30.16 in. Air Temp: 59.7°F
Wind SE Light Weather: Clear Vis. of Ekman Sampler: 0.5 m Tide: LLW

0	9.17	16.58	15.2	11.84	8.3	9.97	108.8	4.82	83
1	14.17	25.61	13.5	19.08	8.4	11.27	125.5	0.13	77
2	15.10	27.29	13.1	20.45	8.4	12.30	137.7	0.04	58
4	15.77	28.49	12.2	21.54	8.5	12.14	134.0	0.17	79
6	16.00	28.91	11.9	21.91	8.3	11.61	128.0	0.53	73
10	16.38	29.60	11.1	22.59	8.1	9.10	99.4	2.32	120
20	16.72	30.21	10.1	23.23	8.0	8.00	85.0	3.09	127
30	16.86	30.46	9.4	23.53	7.9	7.52	79.5	3.78	140
50	16.99	30.70	8.5	23.85	7.8	7.05	73.21	4.90	155
100	17.52	31.65	9.05	24.51	7.9	6.51	68.8	3.95	163

Station C June 23, 1932 21:47 - 21:55 PST Barometer: 30.12 in. Air Temp: 57.6°F
 Wind: SE Light Weather: Clear Vis. of Ekman Sampler: Tide: HHW

Depth Meters	Cl°/..	S°/..	Temp. °C	Sp. Gr. Situ	pH	O ₂ mg/l	O ₂ % Sat.	SiO ₃ mg/l	PO ₄ mg/m ³	NO ₃ mg/l
0	15.21	27.48	13.2	20.58	8.6	11.75	131.9	0.22	65	
1	15.69	28.35	12.5	21.37	8.7	12.20	135.5	0.40	101	
2	15.79	28.53	12.3	21.54	8.6	12.15	134.9	0.34	72	
4	15.96	28.84	12.0	21.84	8.5	12.07	133.1	0.46	80	
6	16.13	29.14	11.7	22.12	8.5	11.69	123.7	0.45	80	
10	16.47	29.76	10.8	22.76	8.2	8.96	92.0	1.23	134	
20	16.86	30.46	10.1	23.42	8.1	7.61	81.6	2.30	144	
30	16.96	30.64	9.8	23.61	8.1	7.46	79.6	2.91	150	
50	17.16	31.00	9.6	23.92	8.1	7.32	76.9	2.92	139	
100	17.48	31.58	9.1	24.45	8.0	6.83	73.5	3.40	174	

Station C June 24, 1932 04:58 - 05:05 PST Barometer: 31.00 in. Air Temp: 53.1°F
 Wind: SE Weather: Clear Vis. of Ekman Sampler: Tide: LW

0	5.71	10.34	13.6	7.34	8.1	10.29	104.5	1.60	44	
1	14.02	25.34	13.8	18.81	8.5	11.94	134.0	0.34	60	
2	15.97	28.86	12.1	21.83	8.4	11.87	125.0	0.10	59	
4	16.22	29.31	11.2	22.34	8.3	9.63	105.0	0.67	87	
6	16.56	29.92	10.9	22.87	8.3	8.65	94.1	0.96	111	
10	16.61	30.01	10.2	23.05	7.95	8.56	92.0	1.52	125	
20	16.96	30.64	9.8	23.61	7.95	7.53	80.3	2.59	134	
30	17.06	30.82	9.4	23.81	7.95	7.19	76.2	3.22	150	
50	17.11	30.91	9.0	23.95	7.9	7.60	80.0	3.65	152	
100	17.53	31.67	9.3	24.49	7.9	6.89	73.3	3.58	160	

Station C October 26, 1932 21:17 - 21:26 PST Barometer: 30.05 in. Air Temp: 53.6°F
 Wind: E Weather: Fair Vis. of Ekman Sampler: Tide: LLW

0	8.51	15.39	10.1	11.73	8.3	10.1	97.4	3.25		
1	10.06	18.19	10.3	13.87	8.3	9.64	94.6	2.75		
2	14.86	26.85	10.1	20.62	8.3	7.46	78.2	2.55		
4	15.32	27.68	10.0	21.29	8.3	6.92	72.6	2.84		
6	15.94	28.80	9.8	22.18	8.25	6.32	66.6	2.70		
10	16.32	29.49	9.8	22.72	8.1	5.93	62.4	2.88		
20	16.54	29.88	9.4	23.08	8.0	5.50	57.9	3.06		
30	16.60	29.99	9.3	23.19	7.9	4.83	50.6	3.28		
50	16.73	30.23	9.4	23.34	7.9	4.81	50.8	3.32		
100	17.05	30.81	9.2	23.83	7.9	4.81	50.7	3.36		

Station C October 27, 1932 03:03 PST Barometer: 29.95 in. Air Temp:
 Wind: S Light Weather: Vis. of Ekman Sampler: Tide: HW

0										
1	10.49	18.96	10.1	14.46	7.95	9.72	97.1	3.30		
2	10.46	18.91	10.1	14.47	8.00	9.80	97.9	3.25		
4	11.62	21.00	10.1	16.09	7.90	9.35	94.2	2.80		
6	14.23	25.72	10.1	19.74	7.90	7.60	78.8	2.88		
10	16.20	29.27	9.6	22.58	7.85	5.92	62.4	3.20		
20	16.44	29.70	9.5	22.92	7.80	5.32	56.1	3.56		

Station C October 28, 1932 15:30 - 15:38 Barometer: 30.10 in. Air Temp: 48.0°F
 Wind: Calm Weather: Vis. of Ekman Sampler: Tide: HHW

Depth Meters	Cl°/..	S°/..	Temp. °C	Sp. Gr. Situ	pH	O ₂ mg/l	O ₂ % Sat.	SiO ₃ mg/l	PO ₄ ³ mg/m ³	NO ₃ mg/l
0	13.61	24.60	10.1	18.87	8.1	9.27	95.7	2.37		
1	14.04	25.37	10.2	19.45	8.0	8.76	91.0	2.56		
2	14.31	25.86	10.1	19.85	8.0	8.58	89.1	2.59		
4	14.89	26.91	10.1	20.66	7.9	7.81	81.9	2.76		
6	15.32	27.68	9.8	21.31	7.9	6.82	71.9	2.80		
10	15.58	28.15	9.9	21.67	7.9	7.24	76.2	2.85		
20	15.98	28.87	9.5	22.28	7.8	6.08	63.7	3.10		
30	16.44	29.70	9.4	22.94	7.8	5.66	58.9	3.30		
50	16.82	30.39	9.5	23.47	7.8	5.61	59.4	3.30		
100	16.96	30.64	9.2	23.71	7.8	5.48	57.7	3.47		

Station D March 20 1932 14:48 - 14:55 PST Barometer: 30.28 in. Air Temp: 45.5°F
 Wind: NW Light Weather: Vis. of Ekman Sampler: 6.0 m Tide: HW

Depth Meters	Cl°/..	S°/..	Temp. °C	Sp. Gr. Situ	pH	O ₂ mg/l	O ₂ % Sat.	SiO ₃ mg/l	PO ₄ mg/m ³	NO ₃ mg/l
0	17.00	30.72	7.2	24.05	7.9	8.05	81.0	3.54	155	3.20
1	17.02	30.75	7.2	24.08	7.9	7.98	80.6	3.06	160	3.15
2	17.10	30.90	7.2	24.18	7.9	8.06	81.4	3.20	153	2.92
4	16.99	30.70	7.2	24.03	7.9	8.06	81.1	3.01	145	3.15
6	17.10	30.90	7.2	24.18	7.9	7.97	80.6	3.66	149	2.84
10	17.06	30.82	7.2	24.13	7.9	7.97	80.6	3.15	146	3.10
20	17.11	30.91	7.1	24.22	7.9	7.93	80.2	3.15	153	2.97
25	17.06	30.82	7.2	24.13	7.9	7.93	80.3	3.42	163	3.20

Station D March 20, 1932 21:13 - 21:22 PST Barometer: 30.25 in. Air Temp: 43.7°F
 Wind: SE Light Weather: Vis. of Ekman Sampler: Tide: LLW

0	13.20	23.85	7.1	18.68	7.9	10.21	98.5	4.47	148	2.00
1	14.52	26.24	7.2	20.54	7.9	9.54	93.1	3.73	149	3.01
2	15.03	27.16	7.3	21.25	7.9	9.31	92.9	3.54	180	3.20
4	15.30	27.65	7.3	21.63	7.9	9.14	90.3	3.95	148	2.84
6	15.48	27.97	7.25	21.89	7.9	9.04	89.5	3.42	150	2.76
10	16.35	29.54	7.3	23.11	7.9	8.38	84.0	4.03	151	4.11
20	16.92	30.57	7.3	23.92	7.8	7.90	79.6	3.42	183	4.11
25	16.39	30.52	7.3	23.88	7.8	7.72	77.8	3.31	138	3.48

Station D March 21, 1932 03:50 - 03:56 PST Barometer: 30.27 in. Air Temp: 45.5°F
 Wind: SE Light Weather: Vis. of Ekman Sampler: Tide: HHW

0	16.06	29.02	7.1	22.73	7.9	7.96	79.0	3.73	180	2.49
1	16.06	29.02	7.2	22.71	7.9	7.90	78.8	3.80	148	2.45
2	-----	-----	-----	-----	7.9	7.90	79.6	3.60	155	2.69
4	17.04	30.79	7.1	24.11	7.9	7.90	79.6	3.42	142	2.28
6	16.74	30.25	7.2	23.68	7.9	7.82	79.4	3.60	150	2.19
10	17.01	30.73	7.2	24.06	7.9	7.94	80.5	3.48	135	2.88
20	16.87	30.48	7.1	23.88	7.9	7.94	79.6	4.03	133	2.69
25	17.09	30.88	7.1	24.19	7.9	7.87	79.0	3.54	139	2.84

Station D March 21, 1932 10:24 - 10:30 PST Barometer: 30.40 in. Air Temp: 45.5°F
 Wind: Weather: Vis. of Ekman Sampler: Tide: LW

0	16.02	28.95	7.4	22.63	7.9	8.86	88.6	3.42	146	1.35
1	16.02	28.95	7.3	22.64	7.9	8.97	89.9	3.58	144	1.55
2	16.07	29.04	7.3	22.72	7.9	8.82	88.2	3.42	138	1.63
4	16.09	29.07	7.25	22.76	7.9	9.22	92.5	3.48	144	1.71
6	16.17	29.22	7.2	22.87	7.9	8.95	89.5	-----	136	1.50
10	16.12	29.13	7.2	22.80	7.9	8.83	88.4	3.42	137	2.33
20	16.82	30.39	7.3	23.78	7.9	7.88	79.3	3.95	160	2.22
25	16.88	30.50	7.3	23.86	7.9	7.92	79.7	3.54	135	2.46

Station D July 7, 1932 18:41 PST
Wind: Calm Weather:

Barometer: 30.07 in. Air Temp: 59.4°F
Vis. of Ekman Sampler: Tide: HHW

Depth Meters	Cl°/..	S°/..	Temp. °C	Sp Gr. Situ	pH	O ₂ mg/l	O ₂ % Sat.	SiO ₃ mg/l	PO ₄ mg/m ³	NO ₃ mg/l
0	4.81	8.71	16.3	5.63	8.4	9.66	102.7	4.38	45	
1	9.69	17.52	16.3	12.35	8.2	8.58	91.1	3.90	78	
2	12.43	22.47	12.8	16.79	8.3	7.85	84.6	3.90	95	
4	16.66	30.10	10.7	23.04	8.1	6.56	71.6	3.17	130	
6	16.75	30.26	10.6	23.18	7.9	6.56	71.5	3.25	122	
10	16.88	30.50	10.5	23.38	7.9	6.45	69.9	3.55	131	
20	16.93	30.59	11.7	23.24	7.9	6.49	70.2	3.35	140	

Station D July 8, 1932 02:30 - 02:47 PST
Wind: Light Weather: Clear

Barometer: 30.05 in. Air Temp: 50.0°F
Vis. of Ekman Sampler: Tide: LW

0	7.95	14.38	15.3	10.14	8.5	8.66	92.5	3.66	60	
1	8.96	16.20	15.2	11.55	8.5	8.27	89.2	3.45	62	
2	10.18	18.40	14.8	13.31	8.5	8.30	89.8	3.80	70	
4	12.39	22.39	13.4	16.63	8.5	7.92	85.4	3.48	94	
6	12.98	23.46	13.1	17.50	8.3	7.72	84.4	3.30	97	
10	14.68	26.53	12.5	19.96	8.2	7.34	80.4	2.90	115	
20	16.16	29.20	11.3	22.24	8.2	6.81	62.5	2.90	153	

Station D July 8, 1932 07:00 - 07:18 PST
Wind: NW Light Weather: Clear

Barometer: 30.05 in. Air Temp: 60.8°F
Vis. of Ekman Sampler: Tide: HW

0	5.99	10.84	15.6	7.38	8.3	9.12	96.70	4.28	63	
1	7.35	13.30	14.9	9.38	8.2	8.95	94.9	3.95	69	
2	7.78	14.07	14.8	10.00	8.3	8.96	95.4	3.60	76	
4	8.01	14.49	14.8	10.32	8.3	8.95	95.50	3.88	62	
6	9.26	16.74	14.25	12.14	8.3	8.67	92.80	3.60	77	
10	14.57	26.33	12.2	19.87	8.1	7.86	84.90	3.48	122	
20	16.40	29.63	11.1	22.62	8.0	6.84	74.5	3.48	180	

Station D July 8, 1932 13:28 - 13:38 PST
Wind: NW Weather: Fair

Barometer: 30.08 in. Air Temp: 61.2°F
Vis. of Ekman Sampler: 3.0 m Tide: LLW

0	8.78	15.88	16.1	11.14	8.1	8.90	98.20	3.18	47	
1	8.92	16.13	16.1	11.34	8.4	9.25	102.0	3.04	49	
2	9.61	17.38	16.0	12.30	8.4	9.21	102.1	3.15	54	
4	10.79	19.51	15.6	14.01	8.4	8.84	98.50	2.80	58	
6	11.23	20.30	15.5	14.64	8.3	8.74	97.90	2.76	61	
10	13.52	24.43	13.9	18.10	8.2	8.20	91.80	2.48	83	
20	15.95	28.82	11.3	21.94	8.0	7.30	79.50	2.66	148	

Station D October 27, 1932 09:25 PST
Wind: SE Light Weather:

Barometer: 30.20 in. Air Temp: 45.8°F
Vis. of Ekman Sampler: Tide: LW

Depth Meters	Cl°/..	S°/..	Temp. °C	Sp. Gr. Situ	pH	O ₂ mg/l	O ₂ % Sat.	SiO ₃ mg/l	PO ₄ mg/m ³	NO ₃ mg/l
0	15.00	27.11	9.6	20.88	7.9	7.59	78.8	3.27		
1	15.02	27.14	9.7	20.90	7.95	7.57	78.9	2.97		
2	15.02	27.14	9.7	20.90	8.0	7.56	78.2	3.05		
4	15.13	27.34	9.7	21.06	7.95	7.50	78.1	3.06		
6	15.20	27.47	9.8	21.14	7.9	7.42	77.6	3.20		
10	15.22	27.50	9.8	21.17	7.9	7.27	76.1	3.10		
20	16.01	28.93	9.6	22.31	7.85	6.52	68.5	3.20		

Station D October 27, 1932 21:12 PST
Wind: SW Light Weather:

Barometer: 30.14 in. Air Temp: 50.9°F
Vis. of Ekman Sampler: Tide: LLW

0	14.04	25.37	10.0	19.48	8.1	8.50	87.8	2.60		
1	14.16	25.59	10.0	19.66	8.3	8.29	86.8	2.70		
2	14.23	25.72	10.0	19.76	8.2	8.29	85.9	2.82		
4	14.25	25.75	10.0	19.78	8.2	7.98	82.8	2.95		
6	14.45	26.11	10.0	20.06	8.2	7.84	81.5	2.75		
10	15.68	28.33	9.5	21.86	7.9	6.46	67.5	3.36		
20	16.33	29.51	9.3	22.80	7.9	5.62	59.1	3.00		

Station D October 28, 1932 14:21 PST
Wind: SW Strong Weather: Cloudy

Barometer: 30.05 in. Air Temp: 53.6°F
Vis. of Ekman Sampler: Tide: HHW

0	14.00	25.30	10.25	19.42	8.1	8.83	91.7	2.66		
1	14.05	25.39	10.2	19.47	8.1	8.48	88.1	2.75		
2	14.09	25.46	10.2	19.52	8.2	8.46	87.9	2.66		
4	15.72	28.40	9.8	21.87	8.0	6.83	70.9	3.10		
6	16.52	29.85	9.6	23.03	7.9	6.27	65.5	2.92		
10	16.54	29.88	10.1	22.98	7.9	6.16	65.0	3.15		
20	16.73	30.23	9.4	23.34	7.8	5.89	61.1	3.20		

Station E March 29, 1932 18:09 - 18:18 PST Barometer: 30.18 in. Air Temp: 45.2°F
Wind: SE Breeze Weather: Vis. of Ekman Sampler: 4.0 m Tide: LLW

Depth Meters	Cl°/..	S°/..	Temp. °C	Sp. Gr. Situ	pH	O ₂ mg/l	O ₂ % Sat.	SiO ₃ mg/l	PO ₄ mg/m ³	NO ₃ mg/l
0	15.71	28.39	7.6	22.17	8.0	10.22	102.2	3.20	65	
1	15.66	28.30	7.6	22.10	8.0	10.28	102.7	3.25	92	
2	15.62	28.22	7.6	22.04	8.0	10.29	102.8	3.54	94	
4	16.23	29.33	7.5	22.91	7.9	9.64	96.7	3.48	97	
6	16.40	29.63	7.4	23.17	7.9	9.34	93.8	3.73	95	
10	16.60	29.99	7.5	23.44	7.8	9.34	94.3	3.48	92	
20	16.66	30.10	7.5	23.52	7.8	8.65	87.5	3.20	78	
30	16.74	30.25	7.5	23.64	7.8	8.25	83.6	3.31	82	
50	16.87	30.48	7.5	23.82	7.8	7.74	78.4	3.20	75	
100	17.02	30.75	7.6	24.02	7.7	7.43	75.5	3.66	93	

Station E March 30, 1932 02:22 - 02:34 PST Barometer: 30.02 in. Air Temp: 43.7°F
Wind: SE Weather: Fair Vis. of Ekman Sampler: 4.0 m Tide: HHW

0	16.44	29.70	7.2	23.25	7.9	9.37	93.9	3.70	107	2.00
1	16.45	29.72	7.2	23.27	7.9	9.35	93.7	3.54	106	3.18
2	16.45	29.72	7.2	23.27	7.8	9.26	92.8	4.47	111	3.10
4	16.45	29.72	7.2	23.27	7.9	9.21	92.3	4.11	113	4.11
6	16.55	29.90	7.4	23.38	7.8	8.95	90.2	4.79	112	2.56
10	16.63	30.05	7.4	23.50	7.9	8.69	87.7	3.66	115	2.29
20	16.78	30.32	7.4	23.71	7.8	8.45	85.3	3.48	108	3.60
30	16.86	30.46	7.4	23.82	7.8	8.02	81.1	3.54	115	4.20
50	16.99	30.70	7.5	23.99	7.7	7.65	77.6	2.97	109	4.28
100	17.15	30.99	7.5	24.21	7.7	7.34	74.6	3.20	104	3.88

Station E March 31, 1932 10:22 - 10:31 PST Barometer: 30.10 in. Air Temp: 48.5°F
Wind: SE Light Weather: Vis. of Ekman Sampler: 6.0 m Tide: LW

0	16.62	30.03	7.5	23.46	7.9	9.10	91.8	4.11	138	
1	16.64	30.07	7.5	23.49	7.8	9.05	91.2	3.80	165	
2	16.65	30.08	7.4	23.52	7.8	8.97	90.4	3.37	145	
4	16.63	30.05	7.4	23.50	7.8	8.80	88.6	4.47	155	
6	16.73	30.23	7.4	23.63	7.8	8.72	87.9	4.68	153	
10	16.73	30.23	7.4	23.63	7.8	8.64	82.1	4.47	157	
20	16.75	30.26	7.4	23.66	7.9	8.32	83.9	4.38	163	
30	16.83	30.41	7.5	23.77	7.9	8.36	84.7	4.38	155	
50	16.92	30.57	7.6	23.88	7.9	7.83	79.3	4.38	171	

Station E March 31, 1932 12:45 - 12:52 PST Barometer: 30.00 in. Air Temp: 48.4°F
 Wind: SE Light Weather: Vis. of Ekman Sampler: Tide: HW

Depth Meters	Cl°/..	S°/..	Temp. °C	Sp. Gr. Situ	pH	O ₂ mg/l	O ₂ % Sat.	SiO ₃ mg/l	PO ₄ mg/m ³	NO ₃ mg/l
0	16.72	30.21	7.8	23.57	7.9	8.98	91.5	3.60	146	3.27
1	16.66	30.10	7.6	23.51	7.8	8.31	84.2	3.66	142	3.10
2	16.73	30.23	7.5	23.62	7.9	8.10	81.9	3.72	142	----
4	16.75	30.26	7.4	23.66	8.0	8.12	82.1	4.11	142	3.25
6	16.72	30.21	7.4	23.62	7.9	8.06	81.3	3.60	153	2.00
10	16.75	30.26	7.4	23.66	7.9	8.20	82.9	3.85	153	4.91
20	16.83	30.41	7.5	23.77	7.9	8.15	82.6	4.11	142	3.54
30	16.87	30.48	7.5	23.82	7.8	8.18	82.8	3.48	163	3.84
50	17.01	30.73	7.6	24.01	7.8	7.45	75.8	3.60	155	3.34
100	17.19	31.06	7.5	24.27	7.8	7.38	75.1	4.11	153	3.65

Station E June 21, 1932 21:15 - 21:21 PST Barometer: 30.00 in. Air Temp: 57.2°F
 Wind: NE Light Weather: Overcast Vis. of Ekman Sampler: Tide: HHW

0	5.30	9.60	14.1	6.69	8.65	10.61	108.4	----	49
1	11.30	20.43	13.8	15.05	8.7	10.77	114.3	----	53
2	13.74	24.83	14.25	18.34	8.65	10.80	121.8	----	50
4	15.90	28.73	11.8	21.79	8.5	9.23	101.4	----	115
6	15.95	28.82	11.7	21.88	8.5	9.00	98.6	1.67	122
10	16.29	29.43	10.6	22.55	8.3	7.98	84.8	2.04	150
20	16.64	30.07	9.2	23.25	8.1	6.85	71.1	3.20	180
30	16.71	30.19	8.6	23.45	8.1	6.79	69.5	3.06	190
50	16.92	30.57	8.25	23.79	7.9	6.96	71.9	2.92	183
100	17.03	30.77	8.0	23.98	7.9	6.78	69.8	3.28	225

Station E June 22, 1932 03:23 - 03:31 PST Barometer: 30.00 in. Air Temp: 58.1°F
 Wind: SE Light Weather: Vis. of Ekman Sampler: Tide: LW

0	11.17	20.19	13.8	14.86	8.4	10.70	115.8	1.27	61
1	15.07	27.23	12.15	20.58	8.2	9.60	105.2	1.58	89
2	15.61	28.21	11.6	21.42	8.2	8.76	95.60	2.26	89
4	15.83	28.60	11.4	21.76	8.2	8.75	95.30	2.14	138
6	15.85	28.64	11.3	21.81	8.1	8.46	92.60	2.43	139
10	16.20	29.27	10.7	22.40	8.1	8.14	87.70	2.86	143
20	16.40	29.63	9.75	22.84	8.0	7.30	76.40	3.06	147
30	16.66	30.10	8.9	23.32	7.9	6.80	71.00	2.85	183
50	16.77	30.30	8.3	23.57	7.9	6.89	70.80	3.70	174
100	17.04	30.79	8.2	23.96	7.9	6.78	70.30	3.70	161

Station E June 22, 1932 07:18 - 07:26 PST Barometer: 30.00 in. Air Temp: 59.0°F
Wind: NW Mod. Weather: Overcast Vis. of Ekman Sampler: Tide: HW

Depth Meters	Cl°/..	S°/..	Temp. °C	Sp. Gr. Situ	pH	O ₂ mg/l	O ₂ % Sat.	SiO ₃ mg/l	PO ₄ mg/m ³	NO ₃ mg/l
0	2.64	4.80	13.6	3.06	8.0	10.49	103.1	---	57	
1	7.70	13.93	14.25	9.99	8.3	10.73	105.3	3.40	57	
2	10.64	19.24	13.7	14.15	8.3	10.54	113.1	2.41	75	
4	11.16	20.17	13.4	14.92	8.3	10.22	109.7	2.86	75	
6	14.56	26.31	12.2	19.86	8.2	9.30	101.4	2.78	123	
10	16.09	29.07	10.8	22.23	8.2	8.16	88.1	3.50	147	
20	16.61	30.01	9.2	23.21	7.9	6.95	72.8	4.86	168	
30	16.70	30.17	8.7	23.41	7.9	6.99	72.7	5.43	178	
50	16.83	30.41	8.4	23.64	7.9	6.91	71.4	4.20	177	
100	17.04	30.79	8.2	23.96	7.9	6.75	70.0	5.43	205	

Station E June 22, 1932 14:18 - 14:29 PST Barometer: 30.08 in. Air Temp: 59.8°F
Wind: SE Light Weather: Vis. of Ekman Sampler: Tide: LLW

0	3.99	7.23	16.2	4.52	8.5	10.49	110.2	3.18	35	
1	4.63	8.39	15.0	5.61	8.5	10.88	112.2	3.28	35	
2	5.57	10.08	14.6	6.99	8.5	10.81	110.8	3.00	37	
4	5.94	10.75	14.7	7.47	8.3	11.06	114.9	3.43	39	
6	12.54	22.66	13.4	16.84	8.2	11.01	120.0	1.17	57	
10	15.74	28.44	11.8	22.96	8.1	9.01	101.0	1.36	116	
20	16.53	29.87	9.4	23.06	7.9	7.37	77.4	3.20	156	
30	16.63	30.05	9.0	23.27	7.9	7.08	74.1	3.31	170	
50	16.75	30.26	8.5	23.51	7.9	6.95	71.9	3.36	163	
100	17.09	30.88	8.2	24.04	7.9	6.88	71.2	4.20	214	

Station E November 3, 1932 08:57 - 09:05 PST Barometer: 29.95 in. Air Temp: -
Wind: S Weather: Fair Vis. of Ekman Sampler: Tide: HHW

0	16.32	29.49	9.3	22.79	7.8	6.64	69.5	3.34		
1	16.32	29.49	9.4	22.77	7.8	6.64	69.7	3.35		
2	16.32	29.49	9.4	22.77	7.8	6.64	69.7	3.36		
4	16.32	29.49	9.3	22.79	7.8	6.64	69.5	3.36		
6	16.32	29.49	9.3	22.79	7.8	6.60	69.1	3.36		
10	16.34	29.52	9.3	22.82	7.8	6.02	63.1	3.36		
20	16.36	29.56	9.4	22.83	7.8	6.12	64.2	3.36		
30	16.43	29.69	9.4	22.93	7.8	5.79	61.0	3.36		
50	16.49	29.79	9.2	23.04	7.8	5.37	56.4	3.36		
100	17.02	30.75	9.2	23.79	7.8	4.86	51.4	3.54		

Station E November 3, 1932 15:36 - 15:40 PST Barometer: 30.04 in. Air Temp: -
 Wind: S Strong Weather: Vis. of Ekman Sampler: Tide: LW

Depth Meters	Cl°/..	S°/..	Temp. °C	Sp. Gr. Situ	pH	O ₂ mg/l	O ₂ % Sat.	SiO ₃ mg/l	PO ₄ mg/m ³	NO ₃ mg/l
0	16.14	29.16	9.4	22.52	7.8	7.28	76.2	3.15		
1	16.22	29.31	9.5	22.61	7.85	7.26	76.2	3.10		
2	16.22	29.31	9.5	22.61	7.85	7.15	75.2	3.06		
4	16.22	29.31	9.4	22.63	7.85	7.20	75.5	3.36		
6	16.26	29.38	9.4	22.69	7.8	6.74	70.4	3.36		
10	16.29	29.43	9.4	22.73	7.8	6.69	70.2	3.36		
20	16.39	29.61	9.4	22.87	7.8	6.16	64.7	3.42		
30	16.45	29.72	9.4	22.96	7.8	5.98	63.0	3.42		
50	16.50	29.81	9.3	23.04	7.8	5.67	5.96	3.42		
100	16.91	30.55	9.3	23.62	7.8	4.89	5.17	3.42		

Station E November 4, 1932 02:35 PST Barometer: 29.94 in. Air Temp: 48.2°F
 Wind: SE Strong Weather: Vis. of Ekman Sampler: Tide: LLW

0	16.25	29.36	9.4	22.68	7.8	7.16	74.7	2.92		
1	-----	-----	-----	-----	---	6.96	72.6	-----		
2	16.25	29.36	9.4	22.68	7.8	6.96	73.1	3.00		
4	16.30	29.45	9.4	22.74	7.8	6.96	73.1	3.00		
6	16.30	29.45	9.4	22.74	7.8	6.96	73.1	3.06		
10	16.30	29.45	9.4	22.74	7.8	6.89	72.3	3.20		
20	16.33	29.51	9.4	22.78	7.8	6.71	70.5	3.36		
30	16.42	29.67	9.4	22.91	7.8	6.56	69.1	3.36		
50	16.54	29.88	9.2	23.11	7.8	5.44	57.0	3.54		
100	16.99	30.70	9.2	23.74	7.8	4.84	51.1	3.54		

Station F April 1, 1932 10:16 - 10:26 PST Barometer: 30.10 in. Air Temp: 49.1°F
Wind: SE Light Weather: Vis. of Ekman Sampler: Tide: LW

Depth Meters	Cl°/..	S°/..	Temp. °C	Sp. Gr. Situ	pH	O ₂ mg/l	O ₂ % Sat.	SiO ₃ mg/l	PO ₄ mg/m ³	NO ₃ mg/l
0	16.79	30.34	7.6	23.69	7.9	8.24	83.4	3.80	130	4.00
1	16.81	30.37	7.5	23.74	7.9	8.12	82.3	3.60	150	5.45
2	16.91	30.55	7.4	23.90	7.8	8.13	82.2	3.73	150	5.85
4	16.98	30.68	7.4	23.99	7.9	7.80	79.0	3.70	145	6.20
6	16.91	30.55	7.3	23.91	7.8	8.12	81.8	3.42	134	6.40
10	16.91	30.55	7.4	23.90	7.8	7.89	79.8	3.80	155	6.40
20	16.94	30.61	7.3	23.95	7.8	7.86	79.3	3.50	155	6.50
30	16.95	30.62	7.3	23.96	7.8	7.86	79.2	3.48	150	6.20
50	16.96	30.64	7.25	23.98	7.8	7.86	79.2	3.25	153	7.90
100	17.09	30.88	7.25	24.17	7.8	7.75	78.3	3.54	157	6.40
180	17.15	30.99	7.2	24.25	7.8	7.68	77.7	3.66	131	5.60

Station F April 1, 1932 13:52 - 14:07 PST Barometer: 30.07 in. Air Temp: 49.3°F
Wind: E Light Weather: Vis. of Ekman Sampler: 10.0 m Tide: HW

0	16.89	30.52	7.7	23.83	7.8	8.24	83.6	4.03	114	2.88
1	16.85	30.44	7.6	23.78	7.8	8.10	82.2	4.47	162	3.25
2	16.90	30.53	7.5	23.86	7.9	8.26	83.8	3.75	143	2.40
4	16.92	30.57	7.4	23.91	7.8	7.95	80.4	3.70	144	3.00
6	16.97	30.66	7.4	23.97	7.8	8.02	81.2	3.66	150	3.32
10	16.92	30.57	7.4	23.91	7.8	8.05	81.4	3.66	136	3.10
20	16.95	30.62	7.4	23.94	7.8	8.21	83.1	3.80	169	3.80
30	16.96	30.64	7.4	23.96	7.8	7.94	80.3	3.80	148	2.88
50	17.00	30.72	7.3	24.04	7.8	7.91	80.0	4.03	162	3.42
100	17.18	31.04	7.3	24.29	7.8	7.75	78.4	3.66	163	3.20
180	17.23	31.13	7.3	24.36	7.8	7.63	77.4	5.15	162	3.48

Station F April 1, 1932 20:40 - 20:50 PST Barometer: 29.90 in. Air Temp: 49.1°F
Wind: Calm Weather: Vis. of Ekman Sampler: 2.0 m Tide: LLW

0	16.68	30.14	7.9	23.50	8.0	8.67	88.7	3.66	140	3.10
1	16.72	30.21	7.7	23.58	8.0	8.53	86.7	3.66	134	3.63
2	16.77	30.30	7.6	23.66	8.0	8.53	86.4	3.54	145	2.06
4	16.75	30.26	7.5	23.65	8.0	8.36	84.5	3.50	146	3.12
6	16.77	30.30	7.5	23.68	7.9	8.19	82.9	3.73	144	2.50
10	16.86	30.46	7.5	23.80	7.9	8.19	82.4	3.20	140	----
20	17.07	30.84	7.5	24.11	7.9	7.82	79.4	3.54	144	2.92
30	17.02	30.75	7.2	24.08	7.8	7.77	78.4	3.54	145	3.48
50	17.02	30.75	7.2	24.08	7.9	7.70	77.7	3.20	144	4.20
100	17.13	30.95	7.2	24.23	7.85	7.60	76.9	3.31	145	3.66
180	17.14	30.97	7.3	24.23	7.8	7.60	77.0	3.25	152	2.62

Station F April 2, 1932 01:58 PST Barometer: 29.75 in. Air Temp:
Wind: NE Half Gale Weather: Vis. of Ekman Sampler: Tide: HHW

Depth Meters	Cl°/..	S°/..	Temp. °C	Sp. Gr. Situ	pH	O ₂ mg/l	O ₂ % Sat.	SiO ₃ mg/l	PO ₄ mg/m ³	NO ₃ mg/l
0	16.54	29.88	7.7	23.33	7.9	8.67	87.9	4.28	151	2.52
1	16.54	29.88	7.7	23.33	7.9	8.62	87.3	3.63	153	3.88
2	16.64	30.07	7.6	23.48	7.7	8.44	85.5	4.60	144	2.97
4	16.71	30.19	7.6	23.59	7.7	8.40	85.2	4.30	157	4.11
6	16.75	30.26	7.6	23.63	7.7	8.55	86.7	4.28	131	3.90
10	16.74	30.25	7.6	23.63	7.7	8.27	83.9	3.95	---	2.00

Station F June 24, 1932 09:21 - 09:52 PST Barometer: 30.10 in. Air Temp: 55.4°F
Wind: NW Light Weather: Hazy Vis. of Ekman Sampler: 1.0 m Tide: HW

0	16.19	29.25	12.2	22.12	8.3	10.89	121.0	0.99	109
1	16.97	30.66	10.8	23.45	8.1	9.76	105.1	1.24	124
2	17.08	30.86	10.5	23.66	8.0	8.10	88.00	2.33	150
4	17.15	30.99	10.2	23.81	8.0	7.85	84.80	2.22	168
6	17.19	31.06	9.9	23.92	8.0	7.77	83.40	2.31	160
10	17.27	31.20	9.9	24.03	8.0	7.27	78.00	2.40	170
20	17.32	31.29	9.7	24.13	8.0	7.09	75.90	2.43	151
30	17.35	31.35	9.6	24.18	8.0	6.98	74.60	2.56	169
50	17.37	31.38	9.5	24.23	8.0	7.00	74.7	2.65	150
100	17.45	31.53	9.3	24.48	7.9	6.64	71.10	2.97	192
200	17.66	31.91	9.2	24.69	7.9	6.61	72.00	2.73	136

Station F June 24, 1932 15:27 - 15:56 PST Barometer: - Air Temp: 60.8°F
Wind: NW Light Weather: Hazy Vis. of Ekman Sampler: Tide: LLW

0	9.99	18.06	15.1	13.00	8.3	10.10	109.5	2.11	76
1	14.73	26.62	12.7	21.00	8.5	11.39	125.1	0.78	87
2	16.51	29.83	10.3	22.90	8.1	8.86	105.1	2.21	163
4	16.74	30.25	10.1	23.26	8.0	8.03	85.50	2.31	183
6	16.74	30.25	9.7	23.32	8.0	7.75	87.00	2.72	194
10	16.87	30.48	10.1	23.44	8.0	7.57	81.20	2.38	171
20	17.04	30.79	9.6	23.75	8.0	7.05	75.20	2.42	186
30	17.16	31.00	9.6	23.92	8.0	6.96	74.20	2.55	186
50	17.30	31.26	9.7	24.10	8.0	6.95	74.60	2.65	183
100	17.44	31.51	9.3	24.37	8.0	6.75	71.60	2.74	180
200	17.79	32.14	9.1	24.88	7.95	6.45	68.50	2.76	201

Station F June 24, 1932 23:10 - 23:21 PST Barometer: 30.01 in. Air Temp: 52.9°F
Wind: NW Light Weather: Clear Vis. of Ekman Sampler: Tide: HHW

Depth Meters	Cl°/..	S°/..	Temp. °C	Sp. Gr. Situ	pH	O ₂ mg/l	O ₂ % Sat.	SiO ₃ mg/l	PO ₄ mg/m ³	NO ₃ mg/l
0	16.21	29.29	11.7	22.24	8.5	11.30	124.8	1.21	91	
1	16.21	29.29	11.7	22.24	8.5	11.12	122.5	1.17	90	
2	16.31	29.47	11.6	22.39	8.5	10.90	120.9	1.26	87	
4	16.56	29.92	11.4	22.78	8.4	10.57	115.9	1.37	103	
6	16.90	30.53	11.0	23.33	8.4	9.50	103.9	2.29	119	
10	17.12	30.93	10.2	23.77	8.3	7.79	84.00	2.94	168	
20	17.20	31.08	9.9	23.93	8.2	7.40	79.40	2.75	160	
30	17.28	31.22	9.8	24.06	8.2	7.11	76.50	2.97	162	
50	17.27	31.20	9.4	24.11	8.1	6.89	73.20	3.31	163	
100	17.39	31.42	9.3	24.29	8.0	6.83	72.40	3.44	160	
200	17.54	31.69	9.2	24.52	8.0	6.61	70.20	3.42	180	

Station F October 28, 1932 05:57 - 06:12 PST Barometer: 29.98 in. Air Temp: 44.6°F
Wind: NE Weather: Fair Vis. of Ekman Sampler: Tide: HW

0	15.00	27.11	9.4	20.92	8.1	7.90	81.7	2.65		
1	15.11	27.30	9.5	21.06	8.1	7.84	82.4	2.76		
2	15.32	27.68	9.6	21.34	8.1	7.48	77.9	2.70		
4	15.59	28.17	9.6	21.72	8.1	7.27	76.0	2.70		
6	15.97	28.86	9.6	22.25	8.1	6.76	79.7	2.80		
10	16.34	29.57	9.4	22.80	8.1	6.26	65.0	2.84		
20	16.37	29.58	9.4	22.84	8.1	6.00	62.3	2.88		
30	16.42	29.67	9.4	22.91	8.1	6.10	63.4	3.10		
50	16.45	29.72	9.4	22.96	8.1	6.05	62.9	3.00		
100	16.77	30.30	9.2	23.43	8.1	5.52	57.4	3.20		
150	16.90	30.53	9.2	23.62	7.95	5.50	57.2	3.10		

Station F October 28, 1932 16:46 - 16:52 PST Barometer: 30.10 in. Air Temp: 48.2°F
Wind: SE Light Weather: Vis. of Ekman Sampler: Tide: HHW

0	14.35	25.93	9.6	19.98	7.9	8.40	86.4	3.06		
1	14.73	26.62	9.7	20.49	7.9	8.27	85.8	2.92		
2	14.82	26.78	9.8	20.61	7.9	8.08	84.0	3.06		
4	14.91	26.94	9.7	20.75	7.9	8.10	84.2	2.80		
6	14.91	26.94	9.7	20.75	7.9	8.00	83.1	3.06		
10	16.04	28.98	9.6	22.35	7.9	6.80	71.3	3.01		
20	16.57	29.94	9.5	23.11	7.9	5.98	63.1	3.12		
30	16.58	29.96	9.5	23.13	7.9	5.88	62.0	3.15		
50	16.74	30.25	9.4	23.36	7.8	5.84	61.6	2.92		
100	17.09	30.88	9.2	23.89	7.85	5.46	57.6	2.92		
150	17.15	30.99	9.1	23.98	7.8	5.33	56.1	3.42		

Station F October 28, 1932 23:02 - 23:12 PST Barometer: 30.02 in. Air Temp: 43.7°F
 Wind: NE Light Weather: Rain Vis. of Ekman Sampler: Tide: LLW

Depth Meters	Cl°/..	S°/..	Temp. °C	Sp. Gr. Situ	pH	O ₂ mg/l	O ₂ % Sat.	SiO ₃ mg/l	PO ₄ mg/m ³	NO ₃ mg/l
0	15.27	27.59	9.4	21.30	8.3	8.62	69.0	3.00		
1	15.58	28.15	9.6	21.71	8.2	7.00	73.1	3.10		
2	15.70	28.37	9.4	21.90	8.0	6.64	69.3	3.20		
4	15.86	28.66	9.5	22.11	8.0	6.31	66.0	2.80		
6	16.20	29.27	9.4	22.61	8.5	6.03	63.2	2.84		
10	16.25	29.36	9.4	22.67	8.0	6.12	64.2	2.92		
20	16.53	29.87	9.4	23.06	8.0	5.94	61.8	2.95		
30	16.58	29.96	9.4	23.14	8.0	5.94	61.7	3.08		
50	16.70	30.17	9.4	23.31	8.0	5.77	61.2	3.28		
100	16.99	30.70	9.2	23.74	8.0	5.50	57.9	3.32		
150	17.11	30.91	9.1	23.93	8.0	5.40	56.8	3.40		

Station G April 14, 1932 19:10 - 19:20 PST Barometer: 30.20 in. Air Temp: 49.1°F
Wind: SE Light Weather: Clear Vis. of Ekman Sampler: Tide: LLW

Depth Meters	Cl°/..	S°/..	Temp. °C	Sp. Gr. Situ	pH	O ₂ mg/l	O ₂ % Sat.	SiO ₃ mg/l	PO ₄ mg/m ³	NO ₃ mg/l
0	15.15	27.38	8.8	21.22	8.5	12.58	128.9	1.91	107	
1	15.27	27.59	8.7	21.40	8.4	12.61	128.9	1.52	95	
2	16.12	29.13	8.2	22.67	8.15	10.38	104.7	1.79	150	
4	16.62	30.03	7.8	23.42	8.1	9.03	91.9	3.22	178	
6	16.71	30.21	7.8	23.57	8.0	8.73	88.8	2.87	180	
10	16.78	30.32	7.8	23.66	8.0	8.76	89.3	2.65	186	
20	16.84	30.43	7.7	23.75	8.0	8.44	85.8	3.00	186	
30	16.90	30.53	7.7	23.84	7.85	8.43	85.7	3.43	197	
50	16.94	30.61	7.6	23.91	7.9	8.33	84.7	2.84	194	
100	17.07	30.84	7.5	24.10	7.9	7.95	80.9	2.90	201	

Station G April 15, 1932 01:55 - 02:07 PST Barometer: 30.14 in. Air Temp: 47.3°F
Wind: SE Light Weather: Clear Vis. of Ekman Sampler: Tide: HHW

0	16.03	28.96	8.2	22.54	8.1	10.17	103.7	2.50	111	
1	16.13	29.14	8.15	22.69	8.0	9.86	100.6	2.58	117	
2	16.05	29.00	8.15	22.58	8.0	9.86	100.8	2.36	130	
4	16.42	29.67	8.0	23.11	8.0	9.41	95.8	2.76	130	
6	16.42	29.67	8.0	23.11	8.0	9.50	96.7	2.78	134	
10	16.72	30.21	7.8	23.57	7.95	8.86	90.1	2.61	150	
20	16.77	30.30	7.7	23.65	7.9	8.70	88.6	3.40	134	
30	16.93	30.59	7.7	23.88	7.9	8.28	84.3	3.70	161	
50	16.97	30.66	7.6	23.95	7.9	8.28	84.2	3.08	144	
100	17.00	30.72	7.5	24.01	7.9	8.14	82.5	3.85	194	

Station G April 15, 1932 08:18 - 08:40 PST Barometer: 30.03 in. Air Temp: 48.2°F
Wind: SE Light Weather: Cloudy Vis. of Ekman Sampler: Tide: LW

0	16.36	29.56	8.2	23.01	8.0	9.73	99.4	2.67	114	
1	16.42	29.67	8.1	23.10	8.0	9.52	97.1	3.25	117	
2	16.53	29.87	8.0	23.27	8.0	9.50	96.7	3.06	122	
4	16.71	30.19	8.0	23.53	8.0	8.81	90.1	3.10	148	
6	16.84	30.43	7.8	23.73	8.0	8.74	88.9	3.00	134	
10	16.85	30.44	7.8	23.75	8.0	8.78	89.3	3.25	151	
20	16.93	30.59	7.7	23.88	8.0	8.46	86.1	4.03	140	
30	16.91	30.55	7.8	23.84	8.0	8.39	85.4	3.60	161	
50	16.93	30.59	7.7	23.87	8.0	8.80	89.5	3.00	131	
100	17.09	30.88	7.6	24.12	7.9	8.15	83.1	4.15	134	

Station G April 15, 1932 11:16 - 11:30 PST Barometer: 30.02 in. Air Temp: 50.0°F
Wind: SE Light Weather: Overcast Vis. of Ekman Sampler: Tide: HW

Depth Meters	Cl°/..	S°/..	Temp. °C	Sp. Gr. Situ	pH	O ₂ mg/l	O ₂ % Sat.	SiO ₃ mg/l	PO ₄ mg/m ³	NO ₃ mg/l
0	16.49	29.79	8.2	23.19	8.0	10.0	103.9	2.42	117	
1	16.48	29.78	8.2	23.17	8.1	9.78	100.6	2.52	123	
2	16.49	29.79	8.1	23.21	8.1	10.02	102.5	2.58	128	
4	16.59	29.97	8.0	23.36	8.0	9.33	95.5	2.59	129	
6	16.73	30.23	7.9	23.57	8.0	9.02	92.0	2.59	148	
10	16.82	30.39	7.8	23.72	8.0	8.55	87.1	2.76	156	
20	16.92	30.57	7.8	23.85	7.9	8.41	85.8	2.76	146	
30	16.91	30.55	7.7	23.86	7.9	8.52	86.8	2.69	160	
50	16.92	30.57	7.6	23.88	7.9	8.12	82.5	2.69	140	
100	17.13	30.95	7.6	24.18	7.9	8.00	81.6	3.06	133	

Station G July 21, 1932 20:46 - 20:53 PST Barometer: 29.94 in. Air Temp: 54.1°F
Wind: SE Weather: Fair Vis. of Ekman Sampler: Tide: HHW

0	16.33	29.51	11.5	22.44	8.3	8.15	84.50	2.40	117	
1	16.66	30.10	10.6	23.05	8.3	8.29	88.60	2.45	123	
2	16.95	30.62	10.3	23.51	8.3	6.86	74.20	2.60	128	
4	17.16	31.00	10.3	23.81	8.3	6.85	74.10	2.42	148	
6	17.20	31.08	10.2	23.88	8.3	6.75	72.90	2.70	146	
10	17.20	31.08	10.3	23.87	8.3	6.78	73.50	2.70	140	
20	17.27	31.20	10.1	24.00	8.2	6.52	70.40	2.59	143	
30	17.28	31.22	10.1	24.01	8.2	6.36	68.60	3.10	150	
50	17.31	31.27	10.1	24.06	8.2	6.34	63.50	2.92	145	
100	17.45	31.53	9.8	24.30	8.2	5.44	53.40	2.76	161	

Station G July 22, 1932 03:26 - 03:34 PST Barometer: 29.94 in. Air Temp: 51.8°F
Wind: SE Strong Weather: Vis. of Ekman Sampler: Tide: LW

0	17.01	30.73	10.7	23.53	8.3	6.99	76.10	2.84	139	
1	17.06	30.82	10.6	23.61	8.25	6.60	71.80	2.76	141	
2	17.16	31.00	10.3	23.80	8.25	6.86	77.40	2.75	144	
4	17.24	31.15	10.3	23.92	8.25	6.65	72.20	2.75	157	
6	17.31	31.27	10.2	24.04	8.25	6.45	69.90	3.06	149	
10	17.31	31.27	10.2	24.04	8.2	6.21	67.60	2.92	150	
20	17.39	31.42	10.2	24.14	8.2	6.19	67.2	2.92	160	
30	17.43	31.49	10.0	24.24	8.1	6.11	65.90	2.97	159	
50	17.46	31.55	10.0	24.28	8.1	5.74	61.90	3.10	150	
100	17.59	31.78	9.6	24.52	8.1	5.55	59.50	3.31	172	

Station G July 22, 1932 07:55 - 08:01 PST Barometer: - Air Temp: 53.6°F
Wind: SE Strong Weather: Vis. of Ekman Sampler: Tide: HW

Depth Meters	Cl°/..	S°/..	Temp. °C	Sp. Gr. Situ	pH	O ₂ mg/l	O ₂ % Sat.	SiO ₃ mg/l	PO ₄ mg/m ³	NO ₃ mg/l
0	17.33	31.31	10.2	24.07	8.0	5.73	61.00	2.84	144	
1	17.34	31.33	10.2	24.08	8.0	6.84	74.20	2.80	145	
2	17.38	31.40	10.2	24.13	8.0	6.50	70.40	3.03	148	
4	17.37	31.38	10.1	24.13	8.0	6.31	68.10	3.01	142	
6	17.38	31.40	10.1	24.15	8.0	6.04	65.20	2.86	147	
10	17.40	31.49	10.1	24.18	8.0	5.37	58.00	2.83	---	
20	17.43	31.49	10.1	24.22	8.0	6.17	66.80	2.95	149	
30	17.45	31.53	10.1	24.25	8.0	6.14	66.30	3.33	145	
50	17.44	31.51	9.9	24.27	8.0	6.05	65.20	3.25	144	
100	17.56	31.73	9.7	24.47	8.0	5.69	59.90	3.25	168	

Station G July 22, 1932 14:34 - 14:38 PST Barometer: 30.04 in. Air Temp: 59.9°F
Wind: SE Light Weather: Vis. of Ekman Sampler: Tide: LLW

0	14.34	25.91	14.8	19.06	8.4	11.30	129.4	0.82	37	
1	14.61	26.40	13.7	19.65	8.4	11.25	126.5	1.21	60	
2	15.99	28.89	11.6	21.95	8.2	9.38	102.9	2.40	85	
4	16.40	29.63	11.2	22.60	8.1	8.80	96.00	2.20	107	
6	16.69	30.16	10.8	23.07	8.1	7.31	79.80	2.32	125	
10	16.81	30.37	10.9	23.12	8.0	7.43	80.90	2.35	135	
20	17.07	30.84	10.2	23.70	8.0	6.40	69.00	2.67	142	
30	17.19	31.06	10.1	23.88	7.9	6.84	73.60	2.97	149	
50	17.32	31.29	10.1	24.06	7.9	6.34	68.60	2.97	138	
100	17.59	31.78	9.6	24.52	7.9	5.86	62.80	3.50	168	

Station G October 29, 1932 16:42 - 16:47 PST Barometer: 30.12 in. Air Temp: 48.2°F
Wind: SE Strong Weather: Vis. of Ekman Sampler: Tide: HW

0	16.49	29.79	9.3	23.03	7.9	6.73	70.6	3.20		
1	16.50	29.81	9.4	23.02	7.9	6.68	70.3	3.10		
2	16.50	29.81	9.3	23.03	7.9	6.58	69.1	2.85		
4	16.50	29.81	9.3	23.03	7.9	6.46	67.8	3.10		
6	16.50	29.81	9.3	23.03	7.9	6.47	68.0	3.00		
10	16.55	29.90	9.4	23.09	7.9	6.51	68.6	3.15		
20	16.63	30.05	9.4	23.21	7.9	6.47	68.3	3.15		
30	16.63	30.05	9.4	23.21	7.9	6.30	66.5	3.40		
50	16.65	30.08	9.3	23.25	7.9	6.21	65.2	3.42		

Station G October 30, 1932 07:16 - 07:21 PST Barometer: 30.24 in. Air Temp: 44.6°F
Wind: SE Strong Weather: Vis. of Ekman Sampler: Tide: HHW

0	15.64	28.26	9.3	21.83	8.0	7.48	77.7	3.31		
1	15.69	28.35	9.4	21.89	7.9	7.43	77.4	3.31		
2	15.77	28.49	9.4	22.10	7.9	7.36	76.8	3.10		
4	15.84	28.62	9.4	22.09	7.9	7.32	76.4	3.15		
6	16.35	29.54	9.4	22.85	7.9	6.81	71.6	3.20		
10	16.43	29.69	9.4	22.96	7.9	7.84	82.4	3.20		
20	16.64	30.07	9.4	23.22	7.9	6.40	67.3	3.20		
30	16.68	30.14	9.4	23.27	7.9	6.29	66.4	3.20		
50	16.69	30.16	9.4	23.30	7.9	6.16	65.1	3.66		

Station G October 30, 1932 12:23 - 12:29 PST Barometer: 30.24 in. Air Temp: 47.3°F
Wind: SE Strong Weather: Vis. of Ekman Sampler: Tide: LW

Depth Meters	Cl°/..	S°/..	Temp. °C	Sp. Gr. Situ	pH	O ₂ mg/l	O ₂ % Sat.	SiO ₃ mg/l	PO ₄ mg/m ³	NO ₃ mg/l
0	16.69	30.16	9.4	23.30	7.9	6.27	66.1	3.20		
1	16.69	30.16	9.4	23.30	7.9	6.29	66.3	3.20		
2	16.69	30.16	9.4	23.30	7.9	6.26	66.0	3.20		
4	16.69	30.16	9.3	23.31	7.9	6.29	66.1	3.20		
6	16.69	30.16	9.3	23.31	7.85	6.21	65.3	3.20		
10	16.69	30.16	9.4	23.30	7.85	6.21	65.5	3.40		
20	16.69	30.16	9.4	23.30	7.85	6.21	65.5	3.48		
30	16.69	30.16	9.3	23.31	7.85	6.17	64.8	3.48		
50	16.69	30.16	9.3	23.31	7.80	6.14	64.6	3.60		

Station H April 16, 1932 09:10 - 09:16 PST Barometer: Air Temp: 46.0°F
Wind: E Light Weather: Overcast Vis. of Ekman Sampler: Tide: LW

Depth Meters	Cl°/..	S°/..	Temp. °C	Sp. Gr. Situ	pH	O ₂ mg/l	O ₂ % Sat.	SiO ₃ mg/l	PO ₄ mg/m ³	NO ₃ mg/l
0	16.75	30.26	7.8	23.61	8.0	8.72	88.8	3.17		
1	16.79	30.34	7.9	23.65	7.9	8.70	88.9	2.88		
2	16.67	30.12	7.9	23.49	7.9	8.52	86.8	2.97		
4	16.81	30.37	7.8	23.70	8.0	8.55	87.1	3.36		
6	16.83	30.41	7.9	23.71	8.0	8.75	89.5	3.02		
10	16.79	30.34	7.8	23.67	8.0	8.95	91.1	2.95		
20	16.80	30.35	7.8	23.69	7.95	8.48	86.4	3.06		
40	16.81	30.37	7.8	23.70	7.95	8.46	86.2	3.25		

Station H April 16, 1932 13:04 - 13:10 PST Barometer: Air Temp: 49.5°F
Wind: E Breeze Weather: Fair Vis. of Ekman Sampler: Tide: HW

0	16.66	30.10	8.0	23.46	8.0	8.39	85.7	2.97	163
1	16.66	30.10	8.0	23.46	8.0	8.49	86.8	2.88	153
2	16.66	30.10	8.0	23.46	8.0	8.36	85.5	3.15	146
4	16.71	30.19	7.9	23.55	8.0	8.65	88.2	3.40	140
6	16.69	30.16	7.9	23.52	8.0	8.56	87.3	3.42	143
10	16.80	30.35	8.0	23.66	8.0	8.48	86.5	3.58	146
20	16.77	30.30	7.9	23.62	7.9	8.48	86.7	3.09	153
40	16.88	30.50	7.8	23.79	7.9	8.28	84.5	3.18	155

Station H April 17, 1932 03:25 - 03:30 PST Barometer: 29.90 in. Air Temp: 46.0°F.
Wind: E Weather: Vis. of Ekman Sampler: Tide: HHW

0	16.81	30.37	7.8	23.70	8.0	8.41	85.7	3.15	165
1	16.81	30.37	7.8	23.70	8.0	8.42	85.7	2.92	165
2	16.81	30.37	7.8	23.70	8.0	8.45	86.0	3.25	163
4	16.81	30.37	7.8	23.70	8.0	8.46	86.0	3.20	158
6	16.84	30.43	7.8	23.74	8.0	8.42	86.1	3.42	158
10	16.80	30.35	7.8	23.69	8.0	8.32	84.7	3.48	155
20	16.84	30.43	7.8	23.74	8.0	8.40	85.7	3.06	153
40	16.99	30.70	7.8	23.95	8.0	7.90	80.8	3.73	160

Station H April 17, 1932 20:22 - 20:27 PST Barometer: 29.98 in. Air Temp: 46.4°F
Wind: SE Breeze Weather: Vis. of Ekman Sampler: Tide: LLW

0	16.81	30.37	7.8	23.70	8.0	8.55	87.0	3.58	170
1	16.81	30.37	7.8	23.70	8.0	8.44	85.9	3.15	158
2	16.81	30.37	7.8	23.70	8.0	8.44	85.9	3.20	177
4	16.81	30.37	7.8	23.70	8.0	8.41	85.6	3.20	188
6	16.86	30.46	7.8	23.76	8.0	8.30	84.5	3.62	164
10	16.81	30.37	7.7	23.71	8.0	8.31	84.5	3.06	160
20	16.90	30.53	7.7	23.84	8.0	8.32	84.5	2.97	163
40	16.89	30.52	7.7	23.83	8.0	8.42	85.6	3.54	161

Station H August 19, 1932 00:36 - 00:42 PST Barometer: 30.05 in. Air Temp: 52.2°F.
Wind: SE Weather: Fair Vis. of Ekman Sampler: Tide: LW

Depth	Cl°/..	S°/..	Temp.	Sp. Gr.		O ₂	O ₂	SiO ₃	PO ₄	NO ₃
Meters			°C	Situ	pH	mg/l	% Sat.	mg/l	mg/m ³	mg/l
0	17.32	31.29	10.5	23.99	8.1	6.40	69.8	2.95	158	
1	17.32	31.29	10.5	23.99	8.1	6.11	66.6	2.95	165	
2	17.31	31.27	10.5	23.98	8.1	6.15	67.1	2.84	160	
4	17.31	31.27	10.4	24.00	8.1	6.49	70.6	2.85	165	
6	17.31	31.27	10.4	24.00	8.1	6.35	69.0	2.97	160	
10	17.35	31.35	10.4	24.04	8.1	5.90	64.2	3.09	171	
20	17.49	31.60	10.4	24.25	8.1	5.92	64.5	2.92	171	
30	17.49	31.60	10.4	24.25	8.1	5.95	64.8	3.16	159	
40	17.49	31.60	10.4	24.25	8.1	5.95	64.8	3.48	160	

Station H August 19, 1932 12:18 - 12:23 PST Barometer: 30.07 in. Air Temp: 52.7°F.
Wind: SE Light Weather: Overcast Vis. of Ekman Sampler: Tide: LLW

0	17.25	31.17	10.6	23.88	8.0	6.11	66.6	2.73	158	
1	17.25	31.17	10.6	23.88	8.0	6.03	65.7	3.02	159	
2	17.23	31.13	10.6	23.85	8.0	6.11	66.7	3.02	164	
4	17.25	31.17	10.6	23.88	8.0	6.15	68.0	2.85	162	
6	17.25	31.17	10.6	23.88	7.95	6.46	70.4	3.20	166	
10	17.25	31.17	10.5	23.90	8.0	6.01	66.4	2.85	162	
20	17.25	31.17	10.5	23.90	8.0	5.99	65.1	3.00	161	
30	17.28	31.22	10.5	23.94	8.0	5.99	65.1	2.97	156	
40	17.30	31.26	10.5	23.97	8.0	5.99	65.3	3.01	166	

Station H August 19, 1932 19:17 - 19:25 PST Barometer: 30.02 in. Air Temp: 53.2°F.
Wind: SE Weather: Fair Vis. of Ekman Sampler: Tide: HHW

0	17.30	31.26	10.5	23.96	8.0	6.25	68.1	3.25		
1	17.30	31.26	10.5	23.96	8.0	6.12	66.6	2.97		
2	17.40	31.44	10.4	24.12	8.0	5.92	64.4	3.10		
4	17.42	31.47	10.4	24.15	8.0	5.87	63.7	3.25		
6	17.40	31.44	10.4	24.12	8.0	5.92	64.4	3.20		
10	17.47	31.56	10.4	24.22	7.9	5.85	63.7	3.29		
20	17.48	31.58	10.4	24.23	8.0	5.93	64.6	3.31		
30	17.60	31.80	10.2	24.43	8.0	5.71	61.9	3.22		
40	17.68	31.94	10.1	24.56	8.0	5.70	61.8	3.60		

Station H October 31, 1932 11:04 - 11:10 PST Barometer: 29.92 in. Air Temp: 50.0°F.
Wind: SE Weather: Fair Vis. of Ekman Sampler: Tide: LW

0	16.84	30.43	9.3	23.51	7.9	6.58	69.4	3.50		
1	16.84	30.43	9.3	23.51	7.9	6.58	69.4	3.60		
2	16.84	30.43	9.3	23.51	7.9	6.58	69.4	3.60		
4	16.86	30.46	9.3	23.54	7.9	6.56	69.1	3.60		
6	16.87	30.48	9.3	23.56	7.9	6.59	69.6	3.50		
10	16.89	30.52	9.3	23.59	7.85	6.54	69.0	3.60		
20	16.89	30.52	9.3	23.59	7.85	6.56	69.2	3.60		
30	16.90	30.53	9.3	23.60	7.85	6.52	68.8	3.60		
40	16.90	30.53	9.3	23.60	7.8	6.52	68.8	3.60		

Station H October 31, 1932 16:40 - 16:46 PST Barometer: 29.94 in. Air Temp: 50.0°F
Wind: SE Light Weather: Vis. of Ekman Sampler: 3.0 m Tide: HW

Depth Meters	Cl°/..	S°/..	Temp. °C	Sp. Gr. Situ	pH	O ₂ mg/l	O ₂ % Sat.	SiO ₃ mg/l	PO ₄ mg/m ³	NO ₃ mg/l
0	16.80	30.35	9.4	23.45	7.9	6.60	69.6	3.50		
1	16.80	30.35	9.4	23.45	7.9	6.58	69.4	3.30		
2	16.80	30.35	9.4	23.45	7.9	6.58	69.4	3.28		
4	16.80	30.35	9.3	23.47	7.9	6.56	69.2	3.60		
6	16.80	30.35	9.3	23.47	7.9	6.59	69.5	3.60		
10	16.81	30.37	9.3	23.48	7.9	6.54	69.6	3.85		
20	16.83	30.41	9.3	23.50	7.9	6.57	69.3	3.80		
30	16.85	30.44	9.3	23.55	7.9	6.53	68.7	3.80		
40	16.87	30.48	9.3	23.56	7.9	6.47	70.1	3.73		

Station H October 31, 1932 23:20- 23:25 PST Barometer 29.93 in. Air Temp: 48.0°F
Wind: SE Fresh Weather: Vis. of Ekman Sampler: Tide: LLW

0	16.76	30.28	9.2	23.42	7.95	6.34	66.7	3.18		
1	16.76	30.28	9.3	23.41	7.9	6.34	66.8	3.06		
2	16.74	30.25	9.3	23.38	7.9	6.33	66.6	2.99		
4	16.74	30.25	9.3	23.38	7.9	6.40	67.4	2.92		
6	16.74	30.25	9.3	23.38	7.9	6.31	66.4	3.00		
10	16.74	30.25	9.3	23.38	7.9	6.25	65.8	3.10		
20	16.74	30.25	9.3	23.38	7.9	6.29	66.2	3.15		
30	16.74	30.25	9.3	23.38	7.9	6.26	65.9	3.36		
40	16.74	30.25	9.2	23.39	7.9	6.29	66.1	3.57		

Station I April 17, 1932 13:47 - 13:54 PST Barometer: 29.78 in. Air Temp: 44.2°F
 Wind: NE Light Weather: Vis. of Ekman Sampler: Tide: HW

Depth Meters	Cl°/..	S°/..	Temp. °C	Sp. Gr. Situ	pH	O ₂ mg/l	O ₂ % Sat.	SiO ₃ mg/l	PO ₄ mg/m3	NO ₃ mg/l
0	17.01	30.73	7.8	23.98	7.9	8.15	83.3	3.34	144	
1	17.00	30.72	7.8	23.97	7.9	8.15	83.3	3.40	155	
2	17.01	30.73	7.8	23.98	7.9	8.15	83.3	3.36	139	
4	17.04	30.79	7.9	24.00	7.9	8.15	83.3	3.95	147	
6	17.00	30.72	7.8	23.97	7.9	8.08	82.7	3.68	148	
10	16.98	30.68	7.9	23.93	7.9	8.19	83.7	3.60	150	
20	17.02	30.75	7.8	24.00	7.9	8.15	83.3	3.75	145	
30	16.98	30.68	7.8	23.94	7.9	8.17	83.6	3.50	150	
50	17.02	30.75	7.8	24.00	7.9	8.10	82.8	3.90	139	
100	17.05	30.81	7.8	24.04	7.9	8.06	82.5	2.40	131	

Station I April 17, 1932 19:47 - 19:55 PST Barometer: 29.93 in. Air Temp: 45.5°F
 Wind: Calm Weather: Clear Vis. of Ekman Sampler: Tide: LLW

0	16.94	30.61	7.7	23.89	8.1	8.34	84.8	3.54	153	
1	16.94	30.61	7.7	23.89	8.0	8.34	84.8	2.82	146	
2	16.91	30.55	7.7	23.85	8.1	8.15	82.9	3.75	148	
4	16.91	30.55	7.75	23.85	8.1	8.30	84.4	3.48	170	
6	16.83	30.41	7.75	23.73	8.0	8.28	84.3	4.00	144	
10	16.88	30.50	7.8	23.79	8.1	8.17	83.1	3.50	163	
20	16.88	30.50	7.8	23.79	8.0	8.10	82.4	3.40	142	
30	16.96	30.64	7.75	23.92	7.9	8.08	82.4	3.75	156	
50	16.98	30.68	7.75	23.95	8.0	8.09	82.5	3.50	141	
100	17.03	30.77	7.8	24.01	7.9	7.98	81.6	4.28	160	

Station I April 18, 1932 02:51 - 02:58 PST Barometer: 30.00 in. Air Temp: 45.8°F
 Wind: Calm Weather: Vis. of Ekman Sampler: Tide: HHW

0	17.02	30.75	7.8	24.00	7.9	8.10	82.8	3.36	136	
1	17.01	30.73	7.85	23.97	8.0	8.07	82.6	2.94	165	
2	17.02	30.75	7.8	24.00	7.9	8.06	82.4	3.24	130	
4	17.01	30.73	7.8	23.98	8.0	8.02	82.0	2.94	136	
6	17.02	30.75	7.8	24.00	8.0	8.04	82.2	3.48	159	
10	17.01	30.73	7.8	23.98	8.0	8.11	82.9	3.08	159	
20	17.02	30.75	7.8	24.00	8.0	8.02	82.0	2.98	148	
30	17.01	30.73	7.85	23.97	7.9	8.15	83.3	2.98	138	
50	17.02	30.75	7.8	24.00	7.9	8.00	81.8	3.38	128	
100	17.02	30.75	7.8	24.00	8.0	8.17	83.6	3.95	129	

Station I April 18, 1932 09:02 - 09:10 PST Barometer: 30.02 in. Air Temp: 48.2°F
 Wind: SE Light Weather: Cloudy Vis. of Ekman Sampler: Tide: LW

Depth Meters	Cl°/..	S°/..	Temp. °C	Sp. Gr Situ	pH	O ₂ mg/l	O ₂ % Sat.	SiO ₃ mg/l	PO ₄ mg/m ³	NO ₃ mg/l
0	16.99	30.70	8.0	23.92	7.9	8.25	84.7	3.54	148	
1	16.97	30.66	7.9	23.91	7.9	8.15	83.5	2.97	129	
2	16.99	30.70	7.8	23.95	7.9	8.34	85.3	3.00	142	
4	16.93	30.59	7.85	23.85	7.9	8.25	85.4	3.03	144	
6	16.96	30.64	7.85	23.90	7.9	8.21	84.0	3.73	138	
10	16.99	30.70	7.8	23.95	7.9	8.17	83.7	3.50	147	
20	17.03	30.77	7.8	24.01	7.9	8.06	82.4	3.31	136	
30	17.03	30.77	7.8	24.01	7.8	8.06	82.4	3.15	134	
50	17.03	30.73	7.8	23.98	7.8	8.06	82.4	4.28	139	
100	17.11	30.91	7.75	24.13	7.8	8.06	82.5	4.28	128	

Station I August 17, 1932 23:31 - 23:50 PST Barometer: 30.02 in. Air Temp: 52.0°F
 Wind: Calm Weather: Clear Vis. of Ekman Sampler: Tide: LW

0	16.97	30.66	10.7	23.48	8.3	6.54	71.5	2.66	168	
1	17.01	30.73	10.7	23.53	8.3	6.35	69.1	2.66	159	
2	17.09	30.88	10.7	23.65	8.3	6.29	68.6	2.69	161	
4	17.16	31.00	10.5	23.78	8.3	6.78	73.6	2.73	152	
6	17.25	31.17	10.6	23.88	8.3	6.23	67.8	2.97	160	
10	17.37	31.38	10.5	24.07	8.3	6.53	71.2	2.97	168	
20	17.37	31.38	10.4	24.08	8.3	6.01	65.4	3.01	158	
30	17.44	31.51	10.4	24.19	8.3	6.01	65.4	2.97	172	
50	17.53	31.67	10.3	24.33	8.3	6.01	65.4	3.28	174	

Station I August 18, 1932 11:05 - 11:14 PST Barometer: 30.10 in. Air Temp: 55.4°F
 Wind: SE Light Weather: Vis. of Ekman Sampler: Tide: LLW

0	17.01	30.73	11.3	23.43	8.0	6.65	72.2	----	153	
1	17.01	30.73	11.2	23.45	8.0	6.95	76.4	2.40	161	
2	17.17	31.02	10.7	23.75	8.0	6.28	68.4	2.59	155	
4	17.30	31.26	10.6	23.95	8.0	6.14	66.9	2.76	158	
6	17.30	31.26	10.5	23.97	8.0	6.09	66.3	2.76	146	
10	17.30	31.26	10.5	23.97	8.0	6.50	70.8	2.76	167	
20	17.42	31.47	10.4	24.16	8.0	5.96	64.7	3.06	162	
30	17.49	31.60	10.4	24.25	8.0	6.02	65.6	3.20	158	
50	17.50	31.62	10.4	24.26	8.0	5.94	64.7	3.12	164	

Station I August 18, 1932 17:54 - 18:00 PST Barometer: 30.06 in. Air Temp: 58.1°F
 Wind: E Light Weather: Clear Vis. of Ekman Sampler: Tide: HHW

0	17.59	31.78	10.4	24.39	8.2	6.44	66.8	2.76	160	
1	17.59	31.78	10.4	24.39	8.2	6.44	66.8	2.88	163	
2	17.60	31.80	10.4	24.41	8.2	5.96	61.9	2.85	139	
4	17.61	31.82	10.4	24.42	8.2	5.89	61.2	3.01	162	
6	17.61	31.82	10.4	24.42	8.2	5.90	61.4	3.05	148	
10	17.58	31.76	10.4	24.38	8.2	5.96	61.9	3.30	160	
20	17.57	31.74	10.4	24.36	8.2	5.96	61.9	2.97	156	
30	17.59	31.78	10.4	24.39	8.2	6.46	67.3	3.01	160	
50	17.59	31.78	10.3	24.41	8.2	6.01	62.4	3.45	161	

Station J April 19, 1932 16:22 - 16:52 PST Barometer: 29.63 in. Air Temp: 51.0°F
Wind: SE Light Weather: Clear Vis. of Ekman Sampler: 6.0 m Tide: HW

Depth Meters	Cl°/..	S°/..	Temp. °C	Sp. Gr. Situ	pH	O ₂ mg/l	O ₂ % Sat.	SiO ₃ mg/l	PO ₄ mg/m ³	NO ₃ mg/l
0	17.07	30.84	7.9	24.65	7.9	8.15	83.6	3.36	138	
1	17.05	30.81	7.9	24.02	8.0	8.10	83.1	3.85	133	
2	17.06	30.82	7.9	24.03	8.0	8.01	82.3	3.32	153	
4	17.09	30.88	7.8	24.10	8.0	8.11	83.0	3.93	144	
6	17.13	30.95	7.85	24.16	8.0	8.03	82.1	3.54	137	
10	17.16	31.00	7.7	24.21	8.0	7.87	80.5	3.58	142	
20	17.18	31.04	7.8	24.22	8.0	7.90	81.1	3.60	146	
30	17.15	30.99	7.7	24.19	8.0	7.72	79.0	3.50	128	
50	17.20	31.08	7.7	24.27	7.9	7.85	80.3	3.80	145	
100	17.20	31.08	7.7	24.27	7.9	7.89	80.7	3.90	128	
237	17.54	31.69	7.6	24.76	7.9	7.02	72.0	4.10	123	

Station J April 19, 1932 23:01 - 23:32 PST Barometer: 29.68 in. Air Temp: 42.8°F
Wind: SE Light Weather: Clear Vis. of Ekman Sampler: Tide: LW

0	17.03	30.77	7.75	24.02	7.9	8.23	84.2	3.42	138	
1	17.05	30.81	7.75	24.05	7.9	8.04	82.2	3.18	146	
2	17.02	30.75	7.75	24.01	7.9	8.00	81.9	3.28	143	
4	17.03	30.77	7.75	24.02	8.0	8.16	83.5	3.61	148	
6	17.04	30.79	7.8	24.02	8.0	8.02	82.0	3.66	150	
10	17.09	30.88	7.8	24.10	8.0	8.30	84.9	3.36	144	
20	17.09	30.88	7.7	24.11	8.0	8.16	83.5	3.73	142	
30	17.09	30.88	7.75	24.11	8.0	8.16	83.5	3.48	155	
50	17.17	31.02	7.7	24.22	8.0	8.15	83.5	3.80	146	
100	17.18	31.04	7.65	24.24	7.9	7.81	80.0	3.42	147	
228	17.48	31.58	7.65	24.66	7.9	7.25	74.3	3.48	157	

Station J April 20, 1932 05:10 - 05:22 PST Barometer: 29.69 in. Air Temp: 41.9°F
Wind: SE Light Weather: Clear Vis. of Ekman Sampler: 6.0 m Tide: HHW

0	17.07	30.84	7.8	24.07	8.0	8.05	82.5	3.20	146	
1	17.05	30.81	7.7	24.05	8.0	7.94	81.2	3.58	136	
2	17.05	30.81	7.7	24.05	8.0	8.07	82.5	3.54	144	
4	17.07	30.84	7.7	24.08	8.0	7.95	81.3	3.50	126	
6	17.10	30.90	7.7	24.12	8.0	7.92	81.1	3.80	134	
10	17.14	30.97	7.7	24.18	8.0	8.02	82.1	3.80	133	
20	17.18	31.04	7.7	24.24	8.0	7.96	81.4	3.20	131	
30	17.18	31.04	7.7	24.24	7.9	7.76	79.4	3.60	129	
50	17.18	31.04	7.75	24.23	7.9	7.81	80.0	3.90	136	
100	17.23	31.13	7.8	24.29	7.9	7.69	78.9	3.66	140	
185	17.45	31.53	7.65	24.62	7.9	7.34	75.2	4.20	151	

Station J April 20, 1932 11:20 - 11:51 PST Barometer 29.84 in. Air Temp: 47.3°F
 Wind: SW Light Weather: Vis. of Ekman Sampler: 6.0 m Tide: LLW

Depth Meters	Cl°/..	S°/..	Temp. °C	Sp. Gr. Situ	pH	O ₂ mg/l	O ₂ % Sat.	SiO ₃ mg/l	PO ₄ mg/m ³	NO ₃ mg/l
0	17.06	30.82	7.8	24.05	8.0	8.15	83.4	3.43	144	
1	17.09	30.88	7.8	24.10	8.0	8.15	83.4	3.40	148	
2	17.11	30.91	7.8	24.13	8.0	8.05	82.4	3.45	144	
4	17.09	30.88	7.8	24.10	8.0	7.99	81.8	3.60	136	
6	17.06	30.82	7.8	24.05	8.0	7.86	80.5	3.32	142	
10	17.11	30.91	7.8	24.13	7.9	7.85	80.3	3.42	138	
20	17.10	30.90	7.7	24.12	7.9	7.84	80.1	3.36	138	
30	17.10	30.90	7.7	24.12	7.9	7.99	81.7	3.25	135	
50	17.10	30.90	7.7	24.12	7.9	8.03	82.1	3.60	140	
100	17.11	30.91	7.65	24.15	7.9	7.84	80.0	3.36	135	
243	17.13	30.95	7.8	24.16	7.95	8.07	82.7	3.54	146	

Station J July 19, 1932 20:00 - 20:27 PST Barometer: 30.17 in. Air Temp: 54.5°F
 Wind: - Weather: Vis. of Ekman Sampler: Tide: HHW

0	17.88	32.30	9.3	24.98	8.0	5.52	58.5	3.07	141	
1	17.88	32.30	9.3	24.98	8.1	5.54	58.5	3.30	134	
2	17.87	32.29	9.3	24.97	8.1	5.57	59.0	2.80	146	
4	17.87	32.29	9.3	24.97	8.1	5.73	60.7	2.62	155	
6	17.84	32.23	9.3	24.93	8.1	5.54	58.6	2.69	148	
10	17.88	32.30	9.4	24.96	8.1	5.47	58.0	2.80	155	
20	17.85	32.25	9.3	24.94	8.1	5.61	59.4	2.80	158	
30	17.88	32.30	9.3	24.98	8.1	5.52	58.6	2.84	156	
50	17.91	32.36	9.3	25.03	8.1	5.52	58.6	3.06	153	
100	18.16	32.81	8.9	25.44	8.1	5.21	55.0	3.54	160	
200	18.17	32.83	8.9	25.46	8.1	5.00	52.8	3.36	157	

Station J July 20, 1932 01:36 - 02:11 PST Barometer: 30.17 in. Air Temp: 51.2°F
 Wind: Calm Weather: Clear Vis. of Ekman Sampler: 4.0 m Tide: LW

0	17.11	30.91	9.9	23.81	8.3	7.01	74.6	2.35	146	
1	17.27	31.20	9.9	24.03	8.3	7.14	76.0	2.70	146	
2	17.27	31.20	9.85	24.04	8.3	6.70	71.3	2.72	155	
4	17.28	31.22	9.85	24.05	8.3	6.70	71.3	2.66	158	
6	17.39	31.42	9.8	24.21	8.3	6.40	68.2	2.86	152	
10	17.43	31.49	9.7	24.29	8.3	6.34	67.3	2.88	155	
20	17.43	31.49	9.6	24.30	8.1	6.14	65.1	3.00	163	
30	17.68	31.94	9.4	24.68	8.1	6.09	64.4	3.01	162	
50	17.77	32.10	9.4	24.81	8.1	5.78	61.4	2.97	173	
100	17.89	32.32	9.2	25.01	8.1	5.53	58.4	3.15	157	
200	18.31	33.08	8.7	25.68	8.1	4.90	51.5	3.31	163	

Station J July 20, 1932 05:58 - 06:18 PST Barometer: 30.20 in. Air Temp: 53.6°F
Wind: Calm Weather: Clear Vis. of Ekman Sampler: Tide: HW

Depth Meters	Cl%..	S%..	Temp. °C	Sp. Gr. Situ	pH	O ₂ mg/l	O ₂ % Sat.	SiO ₃ mg/l	PO ₄ mg/m ³	NO ₃ mg/l
0	17.20	31.08	10.0	23.92	7.9	6.10	65.0	2.88	151	
1	17.21	31.09	9.9	23.94	8.0	6.49	68.9	3.06	155	
2	17.24	31.15	9.9	23.98	8.0	6.55	69.7	2.76	135	
4	17.23	31.13	9.9	23.97	8.0	6.46	68.8	2.97	147	
6	17.31	31.27	9.8	24.10	8.0	6.41	68.1	2.87	156	
10	17.38	31.40	9.8	24.20	8.0	6.26	66.5	2.90	152	
20	17.47	31.56	9.7	24.34	8.0	6.26	66.5	2.42	153	
30	17.70	31.98	9.5	24.69	7.9	5.50	58.4	3.34	151	
50	17.77	32.10	9.4	24.81	7.9	5.01	53.3	3.60	150	
100	18.01	32.54	9.1	25.20	7.8	5.22	55.3	3.15	163	
200	18.28	33.03	8.7	25.64	7.8	4.32	45.4	3.32	183	

Station J July 20, 1932 12:56 - 13:22 PST Barometer: 30.20 in. Air Temp: 58.1°F
Wind: Calm Weather: Clear Vis. of Ekman Sampler: 5.0 m Tide: LLW

0	17.01	30.73	10.3	23.60	8.0	7.40	79.4	2.73	140	
1	17.16	31.00	10.1	23.84	8.0	6.58	70.3	2.80	169	
2	17.23	31.13	10.0	23.95	8.0	6.10	65.1	2.80	143	
4	17.26	31.18	9.9	24.01	8.0	6.20	66.0	2.66	151	
6	17.30	31.26	9.8	24.09	8.0	6.20	66.0	3.65	151	
10	17.30	31.26	9.8	24.09	8.0	6.17	66.0	3.60	156	
20	17.35	31.35	9.8	24.15	8.0	6.35	67.5	2.92	162	
30	17.37	31.38	9.7	24.20	8.0	5.97	63.5	3.01	160	
50	17.47	31.56	9.6	24.36	8.0	6.01	63.9	2.82	163	
100	17.56	31.73	9.6	24.49	8.0	5.97	63.3	3.50	159	
200	17.96	32.45	9.2	25.11	7.9	5.28	56.0	3.31	170	

Station J November 2, 1932 01:55 - 02:22 PST Barometer: 29.42 in. Air Temp: 44.6°F
Wind: NW Breeze Weather: Vis. of Ekman Sampler: Tide: LLW

0	16.87	30.48	9.1	23.59	7.9	5.98	62.8	3.36		
1	16.87	30.48	9.1	23.49	7.9	5.94	62.4	3.36		
2	16.87	30.48	9.1	23.59	7.9	6.01	63.1	3.36		
4	16.87	30.48	9.1	23.59	7.9	6.04	63.4	3.36		
6	16.87	30.48	9.1	23.59	7.9	5.86	61.6	3.36		
10	16.87	30.48	9.1	23.59	7.9	5.88	61.8	3.36		
20	16.87	30.48	9.1	23.59	7.9	5.91	62.1	3.36		
30	16.87	30.48	9.1	23.59	7.9	5.91	62.1	3.36		
50	16.87	30.48	9.1	23.59	7.9	5.91	62.1	3.36		
100	16.92	30.57	9.1	23.66	7.9	5.93	62.4	3.42		
200	16.93	30.59	9.0	23.65	7.9	6.01	63.1	3.54		

Station J November 2, 1932 09:40 - 09:50 PST Barometer: 29.58 in. Air Temp: 45.5°F
Wind: - Weather: Vis. of Ekman Sampler: Tide: HHW

Depth Meters	Cl°/..	S°/..	Temp. °C	Sp. Gr. Situ	pH	O ₂ mg/l	O ₂ % Sat.	SiO ₃ mg/l	PO ₄ mg/m ³	NO ₃ mg/l
0	17.19	31.06	8.9	24.07	7.8	6.07	63.7	3.25		
1	17.19	31.66	9.0	24.05	7.8	5.94	62.6	3.28		
2	17.19	31.06	9.0	24.05	7.8	5.94	62.6	3.30		
4	17.19	31.06	9.0	24.05	7.9	-----	-----	3.36		
6	17.19	31.06	9.0	24.05	7.8	-----	-----	3.36		
10	17.19	31.06	9.0	24.05	7.8	-----	-----	3.36		
20	17.19	31.06	9.0	24.05	7.8	-----	-----	3.36		
30	17.19	31.06	9.0	24.05	7.8	-----	-----	3.36		
50	17.20	31.08	9.0	24.07	7.8	-----	-----	3.36		
100	17.25	31.17	9.0	24.14	7.8	-----	-----	3.36		
200	17.36	31.36	8.9	24.31	7.8	-----	-----	3.60		

Station J November 2, 1932 14:46 - 14:57 PST Barometer: 29.72 in. Air Temp: -
Wind: Weather: Vis. of Ekman Sampler: Tide: LW

0	17.01	30.73	9.0	23.81	7.8	6.16	64.6	3.25		
1	17.01	30.73	9.0	23.81	7.8	5.95	62.5	3.25		
2	17.01	30.73	9.1	23.79	7.8	5.95	62.5	3.25		
4	17.02	30.73	9.1	23.79	7.8	6.10	63.2	3.25		
6	17.01	30.73	9.0	23.81	7.8	6.03	63.4	3.25		
10	17.01	30.73	9.0	23.81	7.8	5.92	62.2	3.25		
20	17.06	30.82	9.0	23.81	7.8	5.89	61.7	3.25		
30	17.06	30.82	9.0	23.87	7.8	5.89	61.7	3.25		
50	17.06	30.82	9.0	23.87	7.8	5.88	66.7	3.25		
100	17.15	30.99	9.0	24.00	7.8	5.81	61.1	3.25		
200	17.40	31.44	8.8	24.39	7.8	6.05	63.6	3.50		

Station K April 23, 1932 06:00 - 06:38 PST Barometer 29.84 in. Air Temp: 46.0°F
Wind: NE Strong Weather: Vis. of Ekman Sampler: 2.0 m Tide: HW

Depth Meters	Cl°/..	S°/..	Temp. °C	Sp. Gr. Situ	pH	O ₂ mg/l	O ₂ % Sat.	SiO ₃ mg/l	PO ₄ mg/m3	NO ₃ mg/l
0	9.92	17.94	8.85	13.87	8.1	10.12	97.0	2.15	95	
1	11.45	20.70	9.3	15.96	8.1	10.48	103.3	2.18	87	
2	11.79	21.31	9.25	16.44	8.2	10.50	103.7	1.28	81	
4	12.34	22.30	9.4	17.19	8.2	11.50	106.0	0.98	79	
6	14.15	24.57	8.8	19.81	8.1	9.93	100.2	1.81	107	
10	15.67	28.31	8.15	22.04	8.0	8.53	86.3	3.10	134	
20	16.71	30.19	7.7	23.57	7.9	7.13	72.5	3.60	157	
30	16.84	30.43	7.7	23.75	7.9	7.54	76.8	3.15	163	
50	16.92	30.57	7.6	23.88	7.9	7.65	77.8	3.95	146	
100	16.95	30.62	7.6	23.92	7.9	7.62	77.5	3.59	168	
175	17.13	30.95	7.45	24.20	7.9	7.13	72.3	3.95	132	

Station K April 22, 1932 13:52 - 14:22 PST Barometer: 29.90 in. Air Temp: 50.0°F
Wind: Calm Weather: Overcast Vis. of Ekman Sampler: 3.0 m Tide: LLW

0	11.00	19.84	9.7	15.27	8.3	11.40	113.0	0.71	75	
1	12.18	22.01	10.1	16.86	8.2	11.40	114.1	0.61	54	
2	13.66	24.69	8.2	19.20	8.2	11.00	108.6	1.03	93	
4	15.30	27.65	8.4	21.49	8.0	9.50	96.3	2.41	121	
6	15.67	28.31	8.15	22.04	7.9	9.10	92.1	2.56	128	
10	16.13	29.14	7.9	22.72	7.9	8.51	86.2	3.40	123	
20	16.28	29.42	7.9	22.93	7.9	8.48	86.1	3.45	133	
30	16.61	30.01	7.7	23.43	7.9	8.19	83.1	3.78	140	
50	16.91	30.55	7.7	23.86	7.9	7.19	73.2	4.22	151	
100	17.01	30.73	7.45	24.02	7.9	7.86	79.5	3.90	155	
175	17.28	31.22	7.75	24.36	7.9	6.75	69.2	3.95	169	

Station K April 22, 1932 20:01 - 20:38 PST Barometer: 29.88 in. Air Temp: 49.7°F
Wind: SE Light Weather: Vis. of Ekman Sampler: Tide: HHW

0	13.11	23.69	8.95	18.33	8.4	10.05	100.5	1.86	114	
1	13.76	24.90	8.80	19.29	8.4	9.91	99.5	1.72	116	
2	13.82	24.98	8.75	19.35	8.4	9.83	98.6	3.00	131	
4	14.20	25.66	8.6	19.91	8.3	9.59	96.5	2.49	120	
6	15.18	27.43	8.4	21.32	8.2	9.15	92.7	3.05	152	
10	16.23	29.33	7.9	22.86	8.2	8.65	87.8	3.44	155	
20	16.32	29.49	7.8	23.00	8.1	8.48	86.0	3.78	160	
30	16.80	30.50	7.8	23.79	7.9	7.28	74.3	3.88	177	
50	16.90	30.53	7.6	23.85	8.0	7.94	80.6	3.50	163	
100	16.98	30.68	7.5	23.98	8.0	7.55	76.7	3.54	163	
175	16.99	30.70	7.45	23.99	8.0	7.29	73.9	3.88	188	

Station K April 23, 1932 01:12 - 01:59 PST Barometer: 29.92 in. Air Temp: 46.0°F
Wind: SE Light Weather: Vis. of Ekman Sampler: Tide: LW

Depth Meters	Cl°/..	S°/..	Temp. °C	Sp. Gr. Situ	pH	O ₂ mg/l	O ₂ % Sat.	SiO ₃ mg/l	PO ₄ mg/m ³	NO ₃ mg/l
0	10.78	19.49	9.5	14.99	8.5	10.60	104.2	2.41	63	
1	11.73	21.20	9.3	16.35	8.5	10.58	105.0	2.09	61	
2	11.78	21.29	9.25	16.42	8.5	10.69	105.8	2.10	68	
4	12.79	23.12	9.2	17.85	8.4	110.59	106.0	2.16	81	
6	15.58	28.15	8.6	21.85	8.2	9.46	96.6	2.97	117	
10	15.86	28.66	8.65	22.24	8.1	8.40	85.8	3.65	147	
20	16.46	29.74	7.75	23.21	8.1	8.12	82.4	3.20	148	
30	16.74	30.25	7.8	23.60	8.0	7.32	74.5	3.83	178	
50	16.88	30.50	7.6	23.82	8.0	7.91	80.4	4.05	177	
100	16.93	30.59	7.5	23.90	8.0	7.94	80.5	3.75	151	
175	17.14	30.97	7.75	24.17	8.0	6.73	68.8	3.79	154	

Station K April 23, 1932 06:00 - 16:38 PST Barometer: 29.84 in. Air Temp: 46.0°F
Wind: NE Strong Weather: Vis. of Ekman Sampler: 2.0 m Tide: HW

0	9.92	17.94	8.85	13.87	8.1	10.12	97.0	2.15	95	
1	11.45	20.70	9.3	15.96	8.1	10.48	103.3	2.18	87	
2	11.79	21.31	9.25	16.44	8.2	10.50	103.7	1.28	81	
4	12.34	22.30	9.4	17.19	8.2	10.50	106.0	0.98	79	
6	14.15	24.57	8.8	19.81	8.1	9.93	100.2	1.81	107	
10	15.67	28.31	8.15	22.04	8.0	8.53	86.3	3.10	134	
20	16.71	30.19	7.7	23.57	7.9	7.13	72.5	3.60	157	
30	16.84	30.43	7.7	23.75	7.9	7.54	76.8	3.15	163	
50	16.92	30.57	7.6	23.88	7.9	7.65	77.8	3.95	146	
100	16.95	30.62	7.6	23.92	7.9	7.62	77.5	3.59	168	
175	17.13	30.95	7.45	24.00	7.9	7.13	72.3	3.95	132	

Station K July 6, 1932 13:14 - 13:21 PST Barometer: 30.28 in. Air Temp: 59.0°F
Wind: SE Light Weather: Overcast Vis. of Ekman Sampler: Tide: LLW

0	5.74	10.39	17.3	6.74	8.6	10.03	109.2	3.42	34	
1	5.79	10.48	17.3	6.79	8.5	10.13	119.0	3.76	39	
2	6.95	12.57	16.4	8.56	8.5	10.03	109.1	3.20	37	
4	10.03	18.13	15.0	13.07	8.0	9.05	99.1	3.15	79	
6	11.71	21.17	14.0	15.58	8.3	8.55	93.6	2.89	91	
10	14.82	26.78	12.4	20.17	8.1	8.00	87.7	2.75	119	
20	16.81	30.37	10.6	23.27	8.0	7.31	79.2	2.92	141	
30	16.73	30.23	10.0	23.25	7.9	6.95	74.3	3.28	156	
50	17.09	30.88	9.4	23.86	7.9	6.56	69.6	3.73	177	
100	17.25	31.17	8.7	24.19	7.8	6.45	67.4	3.54	186	

Station K July 6, 1932 20:47 - 20:53 PST Barometer: 30.20 in. Air Temp: 59.4°F
 Wind: Calm Weather: Clear Vis. of Ekman Sampler: 3.0 m Tide: HHW

Depth Meters	Cl°/..	S°/..	Temp. °C	Sp. Gr. Situ	pH	O ₂ mg/l	O ₂ % Sat.	SiO ₃ mg/l	PO ₄ mg/m ³	NO ₃ mg/l
0	7.15	12.94	16.4	8.83	8.5	9.86	107.9	2.96	43	
1	7.52	13.40	16.3	9.48	8.5	9.70	106.1	3.20	41	
2	9.29	16.80	16.05	11.85	8.5	9.44	104.0	2.37	42	
4	10.43	18.86	15.3	13.56	8.5	9.12	100.9	2.62	67	
6	12.17	22.00	13.6	16.29	8.5	8.54	9.40	2.60	92	
10	15.38	27.79	11.2	21.18	8.3	7.54	81.3	2.75	133	
20	16.68	30.14	10.1	23.17	8.1	7.07	75.6	3.00	143	
30	16.87	30.48	9.6	23.52	8.0	6.83	72.4	3.66	161	
50	17.03	30.77	9.3	23.79	8.0	6.54	69.0	3.54	158	
100	17.49	31.60	8.4	24.57	7.9	6.25	65.2	3.54	184	

Station K July 7, 1932 02:45 - 02:53 PST Barometer: 30.13 in. Air Temp: 59.0°F
 Wind: Calm Weather: Clear Vis. of Ekman Sampler: Tide: LW

0	5.00	9.06	16.6	5.83	8.8	10.12	108.6	3.18	35	
1	5.91	10.70	16.7	7.08	8.8	9.91	107.3	3.03	38	
2	6.73	12.18	16.6	8.22	8.7	9.86	107.5	2.20	32	
4	8.88	16.06	16.0	11.30	8.5	8.97	98.8	2.40	57	
6	10.88	19.61	14.9	14.23	8.5	8.80	97.1	2.75	74	
10	14.77	26.69	11.9	20.20	8.3	7.79	84.4	2.54	124	
20	16.53	29.87	10.3	22.92	8.3	6.93	74.2	3.10	145	
30	16.82	30.39	9.7	23.44	8.3	6.48	68.8	3.56	157	
50	17.03	30.77	9.4	23.77	7.9	6.18	65.1	4.11	160	
100	17.47	31.56	8.6	24.51	7.9	6.14	64.1	4.11	174	

Station K July 7, 1932 06:27 - 06:37 PST Barometer: 30.20 in. Air Temp: 55.8°F
 Wind: SE Light Weather: Clear Vis. of Ekman Sampler: Tide: HW

0	6.09	11.02	16.3	7.40	8.3	9.70	104.4	3.56	48	
1	6.57	11.89	16.3	8.06	8.5	9.65	104.1	3.19	46	
2	7.45	13.48	16.0	9.23	8.0	9.30	100.8	3.22	62	
4	10.63	19.22	14.8	13.94	8.2	8.61	94.4	2.79	72	
6	13.69	24.74	13.1	17.48	8.2	8.21	89.3	2.43	100	
10	15.13	27.34	11.6	20.75	8.1	7.55	91.9	3.05	140	
20	16.10	29.09	10.6	22.27	8.0	7.19	77.4	3.00	157	
30	16.73	30.23	10.0	23.25	7.9	6.79	72.6	3.10	183	
50	17.06	30.82	9.3	23.83	7.6	6.44	6.82	4.11	183	
100	17.38	31.40	8.7	24.37	7.9	6.27	65.7	3.70	214	

Station K November 9, 1932 08:58 PST Barometer: 30.30 in. Air Temp:
Wind Weather Vis. of Ekman Sampler 6.0 m Tide: LW

Depth Meters	Cl°/..	S°/..	Temp. °C	Sp. Gr. Situ	pH	O ₂ mg/l	O ₂ % Sat.	SiO ₃ mg/l	PO ₄ mg/m ³	NO ₃ mg/l
0	12.38	22.38	8.7	17.34	7.9	9.35	92.2	2.80		
1	13.39	24.20	8.8	18.75	7.8	8.45	84.5	3.00		
2	14.20	25.66	9.2	19.82	7.8	7.79	79.4	2.85		
4	14.98	27.07	9.2	20.92	7.8	6.86	70.5	2.90		
6	15.79	28.53	9.25	22.05	7.8	6.16	63.9	3.40		
10	16.14	29.16	9.25	22.54	7.8	5.78	60.4	3.40		
20	16.57	29.94	9.25	23.15	7.8	5.38	56.4	3.50		
30	16.74	30.25	9.3	23.38	7.8	5.13	54.1	3.60		
50	16.86	30.46	9.4	23.53	7.8	5.28	55.8	3.60		
100	17.02	30.75	9.15	23.81	7.8	5.68	59.8	3.60		
200	17.16	31.00	9.15	23.99	7.8	5.02	52.8	3.60		

Station K November 9, 1932 14:43 - 14:51 PST Barometer: 30.35 in. Air Temp: 48.2°F
Wind: NW Weather: Cloudy Vis. of Ekman Sampler: Tide: HHW

0	13.05	23.59	8.8	18.27	7.85	8.76	87.6	3.10		
1	13.11	23.69	8.9	18.33	7.90	8.56	83.9	3.10		
2	13.85	25.03	9.05	19.36	7.90	7.98	80.6	3.10		
4	14.61	26.40	9.10	20.42	7.85	7.33	74.9	3.20		
6	14.66	26.49	9.15	20.48	7.85	7.17	73.3	3.31		
10	16.10	20.09	9.2	22.49	7.85	5.81	60.4	3.31		
20	16.63	30.05	9.3	23.34	7.85	5.28	54.8	3.30		
30	16.79	30.34	9.4	23.43	7.85	5.60	59.2	3.30		
50	16.82	30.39	9.2	23.51	7.85	5.85	60.8	3.60		
100	17.04	30.79	9.1	23.83	7.85	5.57	57.9	3.60		

Station K November 9, 1932 21:40 - 21:47 PST Barometer: 30.42 in. Air Temp: 43.7°F
Wind: NW Weather: Clear Vis. of Ekman Sampler: Tide: LLW

0	13.56	24.51	8.8	18.99	8.1	8.58	85.9	2.60		
1	13.56	24.51	8.9	18.97	8.1	8.49	84.1	2.75		
2	13.56	24.51	8.9	18.97	8.0	8.32	82.4	2.80		
4	14.78	26.71	9.2	20.64	8.0	7.09	72.2	3.00		
6	15.66	28.30	9.2	21.88	8.6	6.23	64.6	3.09		
10	16.15	29.18	9.3	22.55	8.0	5.64	59.0	3.00		
20	16.54	29.88	8.95	23.15	8.0	5.64	58.7	3.00		
30	16.65	30.08	11.57	22.88	8.0	5.09	56.2	3.31		
50	16.82	30.39	9.2	23.51	8.0	5.54	58.2	3.31		
100	17.01	30.73	9.0	23.80	7.9	5.54	58.2	3.54		

Station L April 28, 1932 00:50 - 01:50 PST Barometer: 30.05 in. Air Temp: 51.5°F
Wind: W Light Weather: Vis. of Ekman Sampler: Tide: HHW

Depth Meters	Cl°/..	S°/..	Temp. °C	Sp. Gr. Situ	pH	O ₂ mg/l	O ₂ % Sat.	SiO ₃ mg/l	PO ₄ mg/m ₃	NO ₃ mg/l
0	15.37	27.77	12.0	21.02	8.5	10.98	120.0	2.60	103	
1	15.43	27.88	12.0	21.10	8.5	10.59	116.0	3.15	107	
2	15.43	27.88	11.7	21.16	8.5	10.47	114.0	3.18	109	
4	15.68	28.33	9.6	21.85	8.3	9.99	104.2	3.42	116	
6	15.82	28.59	9.0	22.13	8.3	9.75	100.9	3.28	130	
10	16.02	28.95	8.2	22.50	8.1	9.05	97.1	3.64	145	
20	16.33	29.51	7.8	23.01	8.0	8.60	87.2	3.64	151	
30	16.65	30.08	8.0	23.45	8.0	7.49	76.5	4.03	141	
50	16.86	30.46	8.1	23.72	7.9	6.72	69.0	4.18	171	
100	17.12	30.93	8.15	24.08	7.9	6.14	63.4	4.00	155	
170	17.33	31.31	8.60	24.32	7.9	4.55	47.5	5.43	146	

Station L April 28, 1932 07:50 - 08:25 PST Barometer: 30.05 in. Air Temp: 50.0°F
Wind: NW Light Weather: Vis. of Ekman Sampler: Tide: LW

0	15.42	27.86	11.4	21.19	8.2	10.44	113.2	2.73	97	
1	15.44	27.90	11.3	21.23	8.2	10.58	114.3	3.08	107	
2	15.44	27.90	11.1	21.27	8.2	10.58	113.8	2.76	97	
4	15.71	28.39	9.6	21.38	8.0	9.90	103.7	3.22	120	
6	15.75	28.46	9.4	21.97	8.0	9.79	102.0	3.00	125	
10	15.77	28.49	9.2	22.03	8.0	9.70	100.7	3.06	111	
20	16.24	29.34	7.8	22.89	7.9	8.68	87.4	3.62	138	
30	16.58	29.96	8.05	23.34	7.9	7.72	78.8	3.60	143	
50	16.82	30.39	8.2	23.66	7.8	6.70	68.8	4.45	163	
100	17.19	31.06	8.15	24.18	7.8	6.11	63.1	4.08	150	
170	17.34	31.33	8.6	24.33	7.7	4.89	51.1	4.30	183	

Station L April 28, 1932 10:50 - 11:08 PST Barometer: 30.07 in. Air Temp: 53.1°F
Wind: SE Light Weather: Vis. of Ekman Sampler: Tide: HW

0	15.46	27.94	12.1	21.12	8.3	10.51	115.7	2.78	107	
1	15.43	27.88	11.4	21.20	8.3	10.47	115.7	2.78	111	
2	15.47	27.95	11.3	21.28	8.3	10.67	115.5	2.73	105	
4	15.51	28.03	11.25	21.34	8.3	10.58	114.3	2.85	107	
6	15.81	29.57	9.2	22.09	8.0	9.72	101.0	4.05	119	
10	15.85	28.64	8.9	22.19	8.0	9.60	99.1	3.70	122	
20	16.32	29.49	7.8	23.01	7.9	8.64	87.5	3.42	130	
30	16.62	30.05	8.15	23.39	7.9	7.57	77.7	3.20	146	
50	16.87	30.48	8.15	23.73	7.9	6.52	67.0	3.96	138	
100	17.15	30.99	8.2	24.12	7.8	5.78	59.7	4.55	172	
165	17.32	31.29	8.5	24.31	7.6	4.57	47.6	5.00	163	

Station L April 28, 1932 18:10 - 18:40 PST Barometer: 30.00 in. Air Temp: 55.1°F
Wind: SE Weather: Vis. of Ekman Sampler: Tide: LLW

Depth Meters	Cl°/..	S°/..	Temp. °C	Sp. Gr. Situ	pH	O ₂ mg/l	O ₂ % Sat.	SiO ₃ mg/l	PO ₄ mg/m ³	NO ₃ mg/l
0	15.38	27.79	11.6	21.11	8.3	10.58	114.8	2.98	103	
1	15.38	27.79	11.6	21.11	8.3	10.47	113.6	2.80	95	
2	15.38	27.79	11.6	21.11	8.3	10.77	116.9	3.01	88	
4	15.40	27.83	11.6	21.12	8.3	10.52	114.2	3.06	93	
6	15.49	27.99	10.9	21.37	8.2	10.51	113.0	2.85	94	
10	16.02	28.95	8.45	22.49	8.0	9.30	95.2	3.28	114	
20	16.46	29.74	7.95	23.18	7.9	8.03	81.6	3.58	130	
30	16.67	30.12	8.2	23.44	7.8	7.36	75.7	3.60	154	
50	16.87	30.48	8.1	23.74	7.8	6.58	67.6	3.82	149	
100	17.14	30.97	8.15	24.11	7.8	5.72	59.2	4.92	145	
146	17.30	31.26	8.5	24.29	7.7	4.90	51.1	5.15	165	

Station L August 9, 1932 16:27 - 16:38 PST Barometer: 29.91 in. Air Temp: 60.1°F
Wind: E Light Weather: Overcast Vis. of Ekman Sampler: 4.0 m Tide: LW

0	13.59	24.56	16.2	17.74	8.5	9.20	107.2	1.14	78	0.28
1	13.59	24.56	16.0	17.78	8.5	9.17	106.4	1.30	80	0.26
2	13.66	24.69	16.2	17.83	8.4	9.00	114.9	1.13	71	0.32
4	13.95	25.21	15.8	18.32	8.4	9.01	104.7	1.21	95	0.26
6	14.21	25.68	15.3	18.78	8.4	8.84	101.2	1.33	107	0.36
10	14.62	26.42	13.9	19.62	8.3	8.45	95.2	1.40	110	0.44
20	16.39	29.61	9.5	22.85	7.95	6.49	68.2	3.00	162	2.01
30	16.58	29.96	9.0	23.20	7.8	6.13	64.1	3.25	206	2.09
50	16.92	30.57	8.8	23.71	7.7	5.79	60.4	3.88	188	1.97
100	17.39	31.42	8.2	24.46	7.7	5.02	52.0	4.70	208	1.83
200	17.61	31.82	8.6	24.71	7.7	3.81	43.0	5.60	209	1.94

Station L August 9, 1932 22:27 - 22:40 PST Barometer: 29.90 in. Air Temp: 57.0°F
Wind: NW Breeze Weather: Clearing Vis. of Ekman Sampler: Tide: HHW

0	13.86	25.05	15.7	18.21	8.6	8.80	101.3	1.15	100	0.23
1	13.93	25.17	15.7	18.31	8.6	8.95	103.5	1.25	84	0.23
2	14.07	25.43	15.6	18.53	8.6	8.88	102.8	1.20	77	0.24
4	14.10	25.37	15.5	18.59	8.6	8.78	101.7	1.38	92	0.22
6	14.41	26.04	14.8	19.16	8.6	8.63	98.0	1.30	87	0.31
10	14.97	27.05	13.3	20.23	8.0	7.85	92.8	2.22	108	0.43
20	16.32	29.49	9.4	22.77	8.1	6.48	68.1	3.33	168	1.40
30	16.65	30.08	8.9	23.31	8.0	6.20	64.6	3.70	159	1.48
50	16.99	30.70	8.6	23.80	8.0	5.85	61.5	3.88	171	1.83
100	17.38	31.40	8.0	24.47	7.8	5.14	53.1	4.48	176	1.55
200	17.68	31.94	8.5	24.82	7.8	4.16	43.5	5.35	177	1.80

Station L August 10, 1932 06:08 - 06:20 PST Barometer: 30.00 in. Air Temp: 55.4°F
Wind: NW Light Weather: Clear Vis. of Ekman Sampler: Tide: LLW

Depth Meters	Cl°/..	S°/..	Temp. °C	Sp. Gr. Situ	pH	O ₂ mg/l	O ₂ % Sat.	SiO ₃ mg/l	PO ₄ mg/m ³	NO ₃ mg/l
0	13.35	24.13	16.0	17.45	8.4	8.77	101.7	1.16	73	0.14
1	13.93	25.17	15.5	18.35	8.4	8.76	111.1	1.48	65	0.17
2	14.04	25.37	15.5	18.50	8.4	8.78	101.6	1.48	81	0.17
4	14.09	25.46	15.5	18.57	8.4	8.74	102.0	1.46	77	0.17
6	14.11	25.50	15.5	18.60	8.4	8.86	102.7	1.46	65	0.20
10	14.48	26.17	14.7	19.27	8.4	8.52	97.5	1.57	77	0.33
20	16.01	28.93	9.7	22.29	8.0	6.81	71.7	3.80	138	0.84
30	16.69	30.06	9.0	23.36	7.8	6.09	63.7	4.25	163	1.23
50	17.00	30.72	8.6	23.86	7.8	5.86	61.0	4.70	159	1.33
100	17.40	31.44	8.2	24.48	7.7	5.16	53.7	5.11	160	1.44
200	17.62	31.83	8.6	24.73	7.7	4.11	43.1	6.02	160	1.63

Station L August 10, 1932 14:00 - 14:10 PST Barometer: 29.95 in. Air Temp:
Wind: SE Breeze Weather: Clear Vis. of Ekman Sampler: Tide: HW

0	13.58	24.54	16.8	17.59	8.5	9.85	116.0	1.01	67	0.20
1	13.88	25.08	16.0	18.18	8.5	9.87	114.8	1.11	65	0.25
2	14.00	25.30	16.0	18.34	8.4	9.60	110.7	1.07	64	0.20
4	14.11	25.50	15.9	18.51	8.4	9.15	106.9	1.19	70	0.19
6	14.20	25.66	15.4	18.74	8.4	8.91	103.1	1.21	74	0.21
10	14.40	26.02	15.0	19.10	8.4	8.57	98.6	1.21	77	0.29
20	16.21	29.29	9.4	22.62	7.9	6.67	69.7	3.10	151	1.26
30	16.72	30.21	9.0	23.40	7.8	6.11	63.7	3.15	151	1.42
50	17.02	30.75	8.6	23.88	7.8	5.67	59.0	3.88	160	1.44
100	17.47	31.56	8.3	24.56	7.8	4.98	51.9	5.20	175	1.40
200	17.71	32.00	8.6	24.85	7.8	4.21	43.9	5.18	165	1.36

Station L November 15, 1932 16:42 - 16:51 PST Barometer: 29.80 in. Air Temp: 42.8°F
Wind: NW Breeze Weather: Overcast Vis. of Ekman Sampler: Tide: HW

0	14.60	26.38	---	---	8.2	9.47	---	2.88		
1	15.00	27.11	8.4	21.06	8.2	8.91	90.2	2.92		
2	15.16	27.39	8.5	21.28	8.2	8.87	90.1	2.68		
4	15.26	27.57	8.5	21.41	8.2	8.72	88.6	2.80		
6	15.30	27.65	8.5	21.57	8.0	8.67	88.2	3.10		
10	15.67	28.31	9.0	21.93	8.2	7.71	79.6	3.50		
20	15.96	28.84	9.2	22.30	7.9	7.14	73.4	2.50		
30	16.16	29.20	9.0	22.61	7.9	6.94	65.7	3.50		
50	16.45	29.72	8.6	23.08	7.8	5.54	57.2	4.11		
100	16.85	30.44	8.4	23.67	7.8	4.31	44.6	4.90		
150	16.85	30.44	8.5	23.65	7.8	4.31	44.8	4.90		

Station L November 16, 1932 00:25 - 00:54 PST Barometer: 29.95 in. Air Temp: 43.7°F
Wind: NW Weather: Clear Vis. of Ekman Sampler: Tide: LLW

Depth Meters	Cl°/..	S°/..	Temp. °C	Sp. Gr. Situ	pH	O ₂ mg/l	O ₂ % Sat.	SiO ₃ mg/l	PO ₄ mg/m ³	NO ₃ mg/l
0	05.04	27.18	8.3	21.13	8.1	9.06	91.4	2.56		
1	15.10	27.29	8.4	21.20	8.1	8.78	88.9	2.70		
2	15.20	27.47	8.5	21.32	8.1	8.74	88.7	2.92		
4	15.22	27.50	8.5	21.35	8.1	8.74	88.6	2.92		
6	15.24	27.54	8.5	21.30	8.1	8.76	89.0	2.98		
10	15.49	27.99	8.7	21.70	8.1	8.30	84.2	3.06		
20	15.54	28.08	9.2	21.71	8.1	7.11	74.1	3.88		
30	16.20	29.27	8.8	22.70	7.9	6.45	66.7	3.88		
50	16.46	29.24	8.6	23.09	7.8	5.58	37.7	4.20		
100	16.82	30.39	8.4	23.63	7.8	4.24	43.3	4.58		
150	16.93	30.59	8.3	23.79	7.8	4.58	47.4	4.58		

Station L November 16, 1932 08:50 - 09:02 PST Barometer: 29.91 in. Air Temp: 43.7°F
Wind: Calm Weather: Rain Vis. of Ekman Sampler: Tide: HHW

Depth Meters	Cl°/..	S°/..	Temp. °C	Sp. Gr. Situ	pH	O ₂ mg/l	O ₂ % Sat.	SiO ₃ mg/l	PO ₄ mg/m ³	NO ₃ mg/l
0	14.75	26.65	8.1	20.75	8.0	9.41	94.3	2.85		
1	14.91	26.94	8.2	20.96	8.0	11.20	112.8	2.80		
2	15.05	27.20	8.4	21.13	8.0	10.8	109.2	2.92		
4	15.20	27.47	8.5	21.33	8.0	8.77	98.2	2.84		
6	15.41	27.85	8.7	21.60	8.0	8.41	86.2	3.06		
10	15.71	28.39	9.1	21.96	7.9	7.04	72.9	3.18		
20	15.96	28.84	9.2	22.30	7.9	7.04	74.2	3.36		
30	16.13	29.14	8.8	22.59	7.8	6.60	68.2	3.70		
50	16.45	29.72	8.7	23.06	7.95	5.38	55.7	3.80		
100	16.82	30.39	8.5	23.62	7.7	4.67	49.7	4.90		
150	16.92	30.57	8.35	23.77	7.7	4.72	48.8	5.00		

Station M April 29, 1932 02:04 - 02:12 PST Barometer: 30.02 in. Air Temp: -
 Wind: SE Light Weather: Vis. of Ekman Sampler: Tide: HHW

Depth Meters	Cl°/..	S°/..	Temp. °C	Sp. Gr. Situ	pH	O ₂ mg/l	O ₂ % Sat.	SiO ₃ mg/l	PO ₄ mg/m ³	NO ₃ mg/l
0	15.08	27.25	12.05	20.60	8.3	10.45	114.2	2.84	105	
1	15.40	27.83	11.2	21.19	8.3	10.55	113.8	2.69	108	
2	15.46	27.94	10.9	21.33	8.3	10.40	111.5	2.85	103	
4	15.47	27.95	10.55	21.40	8.3	10.58	112.6	3.01	113	
6	15.65	28.28	9.9	21.76	8.3	10.40	109.3	2.84	115	
10	15.69	28.35	9.2	21.92	8.1	9.93	103.1	2.73	124	
20	16.29	29.43	8.3	22.90	7.95	8.50	86.9	3.28	135	
30	16.67	30.12	8.05	23.47	7.8	7.52	76.9	3.57	168	
50	16.95	30.62	7.90	23.88	7.8	6.72	68.8	3.85	160	
100	17.13	30.95	7.8	24.15	7.8	6.70	68.5	4.47	155	

Station M April 29, 1932 09:04 - 09:12 PST Barometer 30.07 in. Air Temp. 54.5°F
 Wind: Calm Weather: Bright Vis. of Ekman Sampler: 6.0 m Tide: LW

0	14.95	27.01	12.15	20.40	8.1	10.46	104.5	3.28	81	
1	14.95	27.01	11.7	20.48	8.1	10.58	104.6	3.07	85	
2	15.30	27.65	11.6	20.99	8.1	10.33	112.2	2.92	87	
4	15.46	27.94	10.3	21.43	8.1	10.51	111.5	3.00	93	
6	15.56	28.12	10.1	21.60	8.1	10.64	112.3	3.48	91	
10	15.82	28.59	9.2	22.10	8.0	9.96	103.6	3.05	127	
20	16.27	29.40	8.4	22.85	7.9	8.51	87.5	3.66	140	
30	16.60	29.99	8.1	23.36	7.9	7.53	77.1	3.85	151	
50	16.91	30.55	8.0	23.82	7.8	6.76	69.3	3.64	163	
100	17.14	30.97	7.7	24.18	7.8	6.82	69.8	4.03	151	

Station M April 29, 1932 12:55 - 13:02 PST Barometer 30.07 in. Air Temp: 53.6°F
 Wind: SW Light Weather: Vis. of Ekman Sampler: 6.0 m Tide: HW

0	14.01	25.32	12.3	19.07	8.1	10.71	116.0	3.25	114	
1	15.11	27.30	12.45	20.57	8.1	10.70	118.0	3.15	136	
2	15.17	27.41	12.1	20.72	8.2	10.53	105.4	3.48	138	
4	15.39	27.81	10.95	21.23	8.2	10.83	116.2	3.10	148	
6	15.55	28.10	10.2	21.57	8.2	10.46	110.5	2.90	146	
10	15.59	28.17	9.55	21.73	8.1	10.21	106.7	3.45	149	
20	16.29	29.34	8.6	22.78	8.0	8.78	90.5	3.80	187	
30	16.74	30.25	8.1	23.56	7.85	6.92	71.0	3.56	198	
50	16.99	30.70	8.0	23.92	7.8	6.54	67.2	4.43	185	
100	17.14	30.97	7.75	24.17	7.8	6.71	68.7	4.68	188	

Station M April 29, 1932 19:17 - 19:25 PST Barometer: 29.99 in. Air Temp: 56.7°F
Wind: Calm Weather: Vis. of Ekman Sampler: Tide: LLW

Depth Meters	Cl°/..	S°/..	Temp. °C	Sp. Gr. Situ	pH	O ₂ mg/l	O ₂ % Sat.	SiO ₃ mg/l	PO ₄ ³ mg/m ³	NO ₃ mg/l
0	13.28	24.00	13.8	17.79	8.4	10.50	116.3	3.04	101	
1	15.41	27.85	10.8	21.28	8.4	10.81	115.8	2.76	108	
2	15.50	28.01	10.35	21.48	8.4	10.71	113.8	3.24	128	
4	15.65	28.28	9.7	21.79	8.4	10.35	108.6	3.15	131	
6	15.72	28.40	9.45	21.93	8.3	10.09	105.3	3.04	124	
10	15.79	28.53	9.2	22.06	8.2	9.92	103.0	3.01	138	
20	16.32	29.49	8.4	22.92	8.0	8.56	88.1	3.45	163	
30	16.63	30.05	8.1	23.40	8.0	7.23	74.0	3.90	175	
50	16.93	30.59	8.0	23.84	7.9	6.67	68.3	4.38	184	
100	17.16	31.00	7.7	24.21	7.9	6.64	67.8	4.60	177	

Station M July 27, 1932 18:21 - 18:28 PST Barometer: 29.81 in. Air Temp: 66.2°F
Wind: SE Fair Weather: Cloudy Vis. of Ekman Sampler: Tide: LW

0	12.61	22.79	17.3	16.15	8.6	9.20	108.2	Tr	34	
1	12.64	22.85	17.2	16.21	8.6	9.23	108.6	Tr	43	
2	12.75	23.14	17.1	16.39	8.6	9.21	101.9	Tr	35	
4	12.99	23.48	16.9	16.76	8.5	9.17	107.6	Tr	28	
6	13.10	23.68	16.7	16.96	8.5	9.18	107.5	0.38	43	
10	13.94	25.19	15.5	18.37	8.5	8.66	101.0	0.76	41	
20	16.26	29.38	10.7	22.48	8.1	6.94	74.8	2.92	154	
30	16.68	30.14	9.3	23.29	7.8	6.15	64.6	3.36	174	
50	17.12	30.93	8.7	24.00	7.8	5.74	59.9	4.11	185	
100	17.38	31.40	7.9	24.49	7.7	5.36	55.2	4.38	225	

Station M July 27, 1932 23:43 - 23:57 PST Barometer: 29.80 in. Air Temp: 60.8°F
Wind: NE Weather: Vis. of Ekman Sampler: Tide: HW

0	12.66	22.88	16.8	16.33	8.7	8.99	102.2	0.22	34	
1	12.75	23.04	16.8	16.45	8.7	8.96	104.7	0.15	33	
2	12.81	23.15	16.8	16.54	8.7	9.01	105.1	0.18	34	
4	13.16	23.78	16.5	17.09	8.7	8.98	104.7	0.24	33	
6	13.68	24.72	16.2	17.86	8.7	8.98	104.6	0.27	37	
10	14.43	26.08	14.8	19.19	8.6	8.56	98.2	0.38	56	
20	16.33	29.51	10.1	22.68	8.3	6.86	73.1	2.58	163	
30	16.72	30.21	9.2	23.37	7.9	6.14	64.4	3.08	160	
50	17.10	30.90	8.8	23.96	7.9	5.78	61.1	3.15	177	
100	17.38	31.40	7.8	24.50	7.9	5.49	56.2	4.24	205	

Station M July 28, 1932 08:04 - 08:12 PST Barometer: 29.88 in. Air Temp: 62.6°F
Wind: E Weather: Fair Vis. of Ekman Sampler: Tide: LLW

Depth Meters	Cl°/∞	S°/∞	Temp. °C	Sp. Gr. Situ	pH	O ₂ mg/l	O ₂ % Sat.	SiO ₃ mg/l	PO ₄ mg/m ³	NO ₃ mg/l
0	12.76	23.06	17.0	16.43	8.5	8.95	105.1	0.20	42	
1	12.74	23.03	16.9	16.42	8.5	8.83	103.3	0.14	41	
2	12.73	23.01	16.9	16.40	8.5	8.77	102.8	0.22	39	
4	13.10	23.68	16.7	16.96	8.5	9.04	105.8	0.23	41	
6	13.67	24.70	15.8	17.93	8.5	8.73	101.1	0.30	54	
10	14.55	26.29	14.4	19.43	8.4	8.41	95.9	0.74	63	
20	16.43	29.69	9.6	22.90	7.9	6.51	68.8	3.31	152	
30	16.76	30.28	9.2	23.43	7.9	6.10	64.1	3.25	152	
50	17.11	30.91	8.7	23.99	7.9	5.91	61.8	3.65	171	
100	17.37	31.38	7.9	24.47	7.9	5.62	57.8	4.30	190	

Station M July 28, 1932 16:01 - 16:11 PST Barometer: 29.93 in. Air Temp: 56.2°F
Wind: SE Strong Weather: Rain Vis. of Ekman Sampler: Tide: HHW

0	12.99	23.48	16.7	16.80	8.5	8.94	104.2	0.53	33	
1	12.97	23.44	16.7	16.78	8.5	9.10	106.2	0.39	43	
2	12.97	23.44	16.7	16.78	8.5	8.88	103.6	0.33	41	
4	13.01	23.51	16.6	16.86	8.5	8.96	103.0	0.23	37	
6	13.11	23.69	16.7	16.97	8.5	8.96	105.0	0.44	34	
10	13.87	25.07	15.8	18.21	8.4	8.96	103.9	0.44	41	
20	16.39	29.61	10.0	22.78	7.9	6.77	72.2	2.90	147	
30	16.71	30.19	9.4	23.33	7.9	6.16	65.0	3.20	143	
50	17.10	30.90	8.7	23.57	7.8	5.73	59.8	3.80	162	
100	17.41	31.46	7.9	24.53	7.7	5.56	57.4	4.03	194	

Station M November 14, 1932 12:32 - 12:40 PST Barometer: 30.05 in. Air Temp: 47.3°F
Wind: SE Weather: Cloudy Vis. of Ekman Sampler: 9.0 m Tide: LW

0	15.66	28.30	8.9	21.92	7.95	8.41	87.2	3.01		
1	15.66	28.30	8.9	21.92	7.95	8.40	86.4	3.15		
2	15.68	28.33	9.0	21.94	7.95	8.43	87.0	3.25		
4	15.69	28.35	8.9	21.97	7.95	8.47	87.3	3.06		
6	15.73	28.42	8.9	22.02	7.95	8.56	88.4	2.95		
10	15.81	28.57	8.8	22.14	7.9	8.76	90.2	3.02		
20	16.12	29.13	9.1	22.54	7.9	8.07	84.1	3.42		
30	16.34	29.52	9.0	22.86	7.9	6.85	71.2	3.75		
50	16.58	29.96	8.7	23.25	7.7	4.88	50.6	4.60		
100	16.91	30.55	8.6	23.73	7.7	4.42	45.9	4.80		

Station M November 15, 1932 00:17 - 00:24 PST Barometer: 30.07 in. Air Temp: -
 Wind: SE. Weather: Overcast Vis. of Ekman Sampler: Tide: LLW

Depth Meters	Cl°/..	S°/..	Temp. °C	Sp. Gr. Situ	pH	O ₂ mg/l	O ₂ % Sat.	SiO ₃ mg/l	PO ₄ mg/m ³	NO ₃ mg/l
0	15.77	28.49	8.8	22.09	8.0	8.94	91.8	2.80		
1	15.77	28.49	8.8	22.09	8.0	8.91	91.5	2.80		
2	15.77	28.49	8.8	22.09	8.0	8.89	91.3	3.45		
4	15.77	28.49	8.8	22.09	8.0	9.00	92.4	3.15		
6	15.77	28.49	8.8	22.09	8.0	9.00	92.4	2.97		
10	15.83	28.60	8.8	22.09	8.0	8.87	90.6	3.06		
20	15.95	28.82	9.0	22.31	7.9	7.42	76.1	3.30		
30	16.16	29.20	8.95	22.62	7.9	6.57	68.2	3.70		
50	16.45	29.72	8.7	23.06	7.8	5.51	57.0	4.20		
100	16.93	30.59	8.6	23.75	7.8	4.49	46.7	4.60		

Station M November 15, 1932 08:21 - 08:30 PST Barometer: 29.76 in. Air Temp: 44.6°F
 Wind: SE Half Gale Weather: Rain Vis. of Ekman Sampler: Tide: HHW

0	15.76	28.48	8.7	22.00	7.9	8.92	91.6	3.20		
1	15.76	28.48	8.8	22.08	7.9	8.85	91.1	3.20		
2	15.76	28.48	8.7	22.09	7.9	8.81	90.5	3.20		
4	15.76	28.48	8.7	22.09	7.95	8.85	90.9	3.20		
6	15.83	28.60	8.8	22.18	7.95	8.85	91.2	3.20		
10	15.83	28.60	8.8	22.18	8.0	8.68	89.4	3.20		
20	15.88	28.69	8.85	22.24	7.9	7.14	73.6	3.20		
30	16.05	29.00	9.0	22.46	7.8	5.97	62.0	3.35		
50	16.42	29.67	8.8	23.00	7.75	5.88	60.4	4.20		
100	16.84	30.43	8.6	23.62	7.7	4.58	47.6	4.38		

Station N May 3, 1932 17:08 - 17:37 PST Barometer: 29.85 in. Air Temp: 56.3°F
Wind: Calm Weather: Vis. of Ekman Sampler: 1.5 m Tide: HW

Depth Meters	Cl°/..	S°/..	Temp. °C	Sp. Gr. Situ	pH	O ₂ mg/l	O ₂ % Sat.	SiO ₃ mg/l	PO ₄ mg/m ³	NO ₃ mg/l
0	15.94	28.80	13.9	21.45	8.8	15.57	178.5	0.18	---	---
1	15.96	28.84	13.3	21.60	8.8	16.38	185.2	0.32	---	---
2	15.96	28.84	12.8	21.70	8.8	16.80	188.2	0.39	---	---
4	16.11	29.11	10.6	22.29	8.5	14.38	154.6	0.41	---	---
6	16.29	29.43	8.95	22.81	8.2	9.60	99.7	2.5	70	---
10	16.35	29.54	8.45	22.95	8.1	8.23	84.7	3.1	75	---
20	16.66	30.10	8.40	23.40	8.0	7.48	77.2	3.1	79	---
30	16.76	30.28	-----	-----	8.0	7.11	-----	3.2	81	---
50	16.82	30.39	8.39	23.63	7.9	6.88	71.0	3.8	90	---
100	17.05	30.81	8.10	24.00	7.8	6.27	64.6	3.9	115	---

Station N May 4, 1932 03:44 - 03:53 PST Barometer: 29.92 in. Air Temp: 52.7°F
Wind: NW Light Weather: Vis. of Ekman Sampler: Tide: HHW

0	15.53	28.06	12.5	21.15	8.8	16.42	182.2	0.55	---	---
1	15.56	28.12	12.5	21.19	8.8	16.00	177.2	0.40	---	---
2	15.70	28.37	12.0	21.48	8.8	15.90	175.2	0.42	---	---
4	16.08	29.05	10.25	22.30	8.7	13.70	147.1	0.89	53	---
6	16.26	29.38	9.4	22.69	8.5	10.08	105.7	.33	88	---
10	16.23	29.33	8.7	22.75	8.3	8.83	91.2	.38	103	---
20	16.57	29.94	8.6	23.24	8.1	7.55	78.0	.39	107	---
30	16.70	30.17	8.4	23.46	8.0	7.00	72.2	.40	118	---
50	16.78	30.32	8.3	23.59	8.0	6.86	70.7	.47	109	---
100	17.11	30.91	7.9	24.11	7.9	6.01	61.7	.50	118	---

Station N May 4, 1932 11:01 - 11:10 PST Barometer: 30.02 in. Air Temp: 52.1°F
Wind: NW Light Weather: Vis. of Ekman Sampler: Tide: LLW

0	15.89	28.71	13.0	21.56	8.5	12.46	140.1	1.8	33	---
1	15.93	28.78	12.6	21.68	8.65	12.40	137.3	1.9	48	---
2	15.97	28.86	12.45	21.77	8.65	13.22	147.2	1.3	72	---
4	16.04	28.98	11.8	21.98	8.6	15.20	167.1	1.1	24	---
6	16.16	29.20	10.0	22.46	8.5	12.81	136.0	2.5	75	---
10	16.37	29.58	8.4	22.99	8.05	8.22	84.5	4.5	122	---
20	16.62	30.03	8.4	23.34	8.0	7.68	79.3	4.6	143	---
30	16.74	30.25	8.4	23.51	7.95	7.40	76.9	4.9	132	---
50	16.83	30.41	8.3	23.65	7.9	6.89	71.1	5.9	141	---
100	17.12	30.93	8.05	24.10	7.8	6.10	62.7	5.4	153	---

Station N May 3, 1932 22:28 - 22:45 PST Barometer: 29.86 in. Air Temp: 56.3°F
Wind: SE Light Weather: Vis. of Ekman Sampler: Tide: LW

Depth Meters	Cl°/..	S°/..	Temp. °C	Sp. Gr. Situ	pH	O ₂ mg/l	O ₂ % Sat.	SiO ₃ mg/l	PO ₄ mg/m ³	NO ₃ mg/l
0	15.29	27.63	13.4	20.64	8.8	14.96	168.5	0.10	---	---
1	15.87	28.68	13.2	21.50	8.8	15.48	174.9	0.10	---	---
2	15.99	28.89	12.4	21.80	8.8	16.20	180.4	0.45	---	---
4	16.22	29.31	---	---	8.5	11.03	---	1.5	61	---
6	16.25	29.36	10.05	22.58	8.4	9.25	98.4	3.0	93	---
10	16.32	29.49	9.8	22.72	8.3	8.18	86.6	3.0	89	---
20	16.55	29.90	8.4	23.24	8.1	7.68	79.0	4.0	115	---
30	16.69	30.16	8.4	23.44	8.0	7.29	75.3	3.8	98	---
50	16.82	30.39	8.3	23.64	8.0	6.75	69.6	4.0	109	---
100	17.17	31.02	7.9	24.19	7.9	6.14	63.1	4.1	109	---

Station N July 26, 1932 16:45 - 16:51 PST Barometer: 29.95 in. Air Temp: 61.7°F
Wind: E Breeze Weather: Fair Vis. of Ekman Sampler: Tide: LW

0	15.48	27.97	14.9	20.61	8.5	10.21	118.7	1.00	76	---
1	15.52	28.04	14.1	20.83	8.4	10.37	118.1	1.15	79	---
2	15.55	28.10	13.5	20.99	8.4	10.18	115.1	1.21	67	---
4	15.81	28.57	13.5	21.35	8.4	10.45	118.8	1.35	77	---
6	15.97	28.86	12.4	21.77	8.3	9.45	99.9	1.50	86	---
10	16.05	29.00	12.0	21.97	8.3	8.34	92.2	2.25	112	---
20	16.46	29.74	10.3	22.83	8.0	6.68	71.6	3.20	153	---
20	16.63	30.05	10.0	23.11	7.9	6.52	69.6	3.31	135	---
50	16.99	30.70	9.1	23.76	7.8	6.01	63.1	3.60	155	---
100	17.39	31.42	8.1	24.47	7.8	5.69	58.8	3.66	146	---

Station N July 26, 1932 23:04 - 23:12 PST Barometer: 29.90 in. Air Temp: 60.8°F
Wind: Calm Weather: Vis. of Ekman Sampler: Tide: HHW

0	15.55	28.10	14.8	20.73	8.75	10.80	125.2	0.57	59	---
1	15.57	28.13	14.8	20.76	8.8	11.08	128.3	0.64	57	---
2	15.56	28.12	14.6	20.79	8.7	11.32	130.8	0.75	55	---
4	15.56	28.12	13.7	20.97	8.7	12.22	137.4	0.57	59	---
6	15.72	28.40	13.0	21.32	8.7	10.82	121.5	1.07	69	---
10	15.86	28.66	12.0	21.70	8.5	7.84	86.4	1.71	108	---
20	16.37	29.58	10.3	22.70	8.3	6.83	73.2	2.85	123	---
30	16.52	29.85	10.2	22.93	8.1	6.62	70.9	2.76	123	---
50	16.82	30.39	9.4	23.48	8.0	6.36	67.1	3.15	128	---
100	17.30	31.26	8.2	24.33	7.9	5.71	59.3	3.66	100	---

Station N July 27, 1932 07:09, - 07:16 PST Barometer* 29.87 in. Air Temp: 59.0°F
Wind: SE Light Weather: Vis. of Ekman Sampler: Tide: LLW

Depth Meter	Cl°/..	S°/..	Temp. °C	Sp. Gr. Situ	pH	O ₂ mg/l	O ₂ % Sat.	SiO ₂ mg/l.	PO ₄ mg/m	NO ₃ mg/l
0	15.53	28.06	14.4	20.78	8.5	10.57	121.	0.28	61	
1	15.55	28.00	14.3	20.83	8.5	10.52	121.1	0.52	63	
2	15.55	28.10	14.0	20.89	8.5	10.28	117.4	0.65	52	
4	15.55	28.10	13.7	20.95	8.4	9.89	112.1	0.73	64	
6	15.65	28.28	13.0	21.23	8.3	8.65	96.8	1.20	87	
10	15.90	28.73	12.1	21.74	8.2	7.97	88.0	2.29	104	
20	16.43	29.69	10.3	22.79	8.0	6.81	72.6	2.73	140	
30	16.67	30.12	10.0	23.17	7.9	6.62	69.5	3.04	147	
50	17.02	30.75	9.0	23.82	7.8	6.08	63.8	3.20	153	
100	17.33	31.31	8.1	24.39	7.8	5.74	59.2	3.85	163	

Station N July 27, 1932 15:00 - 15:47 PST Barometer: 29.84 in. Air Temp: 62.1°F
Wind: Weather: Vis. of Ekman Sampler: Tide: HW

0	15.34	27.72	15.0	20.40	8.5	10.68	124.2	0.27	37	
1	15.35	27.74	14.95	20.42	8.4	10.67	123.7	0.26	38	
2	15.42	27.85	14.4	20.63	8.4	10.75	123.8	0.34	44	
4	15.45	27.92	14.1	20.74	8.4	10.67	122.1	0.36	41	
6	15.46	27.94	13.9	20.79	8.4	9.96	113.7	0.40	58	
10	15.76	28.48	12.5	21.47	8.2	8.16	97.0	1.35	78	
20	16.42	29.67	10.15	22.79	7.9	6.79	72.6	2.53	140	
30	16.69	30.16	9.9	23.22	7.9	6.51	69.5	3.10	156	
50	16.92	30.57	9.1	23.66	7.85	6.09	63.9	3.55	173	
100	17.44	31.51	8.0	24.56	7.8	5.77	59.6	4.18	200	

Station N November 17, 1932 16:00 - 16:05 PST Barometer: 30.23 in. Air Temp: 46.4°F
Wind: Calm Weather: Fog Vis. of Ekman Sampler: Tide: HW

0	15.91	28.75	9.0	22.25	7.9	9.29	96.1	3.00		
1	15.91	28.75	8.9	22.27	7.9	9.25	99.5	3.00		
2	15.91	28.75	8.9	22.27	7.9	9.29	96.0	3.00		
4	15.91	28.75	8.9	22.27	7.9	9.70	99.0	2.97		
6	15.91	28.75	8.9	22.27	7.9	9.70	99.0	2.80		
10	15.99	28.89	9.0	22.37	7.85	8.74	91.5	----		
20	16.25	29.36	9.0	22.74	7.85	7.84	81.5	3.20		
30	16.41	29.65	9.0	22.96	7.8	6.80	70.9	3.60		
50	16.54	29.88	8.9	23.16	7.8	6.27	65.1	3.90		
75	16.62	30.03	8.8	23.28	7.8	5.16	53.2	4.20		

Station N November 18, 1932 01:58 - 02:07 PST Barometer: 30.25 in. Air Temp: 46.4°F
Wind: SE Light Weather: Vis. of Ekman Sampler: Tide: LLW

Depth Meters	Cl°/..	S°/..	Temp. °C	Sp. Gr. Situ	pH	O ₂ mg/l	O ₂ % Sat.	SiO ₃ mg/l	PO ₄ mg/m ³	NO ₃ mg/l
0	14.62	26.42	8.9	20.46	8.0	8.76	89.1	3.73		
1	15.67	28.31	8.9	21.94	8.0	8.47	87.6	3.45		
2	15.77	28.49	8.9	22.07	8.0	8.45	87.4	3.40		
4	15.82	28.59	8.9	22.14	8.0	8.45	87.3	3.31		
6	15.87	28.68	8.9	22.22	8.1	8.45	87.4	3.05		
10	16.06	29.02	8.9	22.48	8.1	8.06	83.4	3.25		
20	16.21	29.29	8.0	22.82	8.1	7.59	77.1	3.45		
30	16.33	29.51	9.0	22.84	7.95	7.12	73.9	3.80		
50	16.49	29.79	8.8	23.11	7.9	6.34	67.0	3.95		
75	16.49	29.79	8.8	23.11	7.8	6.12	63.6	3.95		

Station N November 18, 1932 09:00 - 09:06 PST Barometer: 30.20 in. Air Temp: 48.4°F
Wind: Calm Weather: Cloudy Vis. of Ekman Sampler: Tide: HHW

0	15.23	27.52	9.1	21.29	7.9	8.46	87.3	3.31		
1	15.74	28.44	9.0	22.02	7.9	8.23	85.0	3.31		
2	15.81	28.57	9.0	22.12	7.9	8.45	87.3	3.31		
4	15.88	28.69	9.0	22.22	8.0	8.50	88.1	3.31		
6	15.88	28.69	8.9	22.23	7.95	8.40	86.8	3.31		
10	16.03	28.96	8.9	22.44	7.9	7.88	81.6	3.31		
20	16.29	29.43	9.0	22.80	7.9	7.70	79.1	3.31		
30	16.45	29.72	9.0	23.02	7.8	6.80	70.8	3.31		
50	16.46	29.74	8.9	23.04	7.8	6.38	66.4	3.75		
75	16.71	30.19	8.8	23.42	7.8	5.61	53.4	4.20		

Station 0 May 4, 1932 18:09 - 18:41 PST Barometer: 29.98 in. Air Temp: 54.5°F
Wind: ExN Light Weather: Vis. of Ekman Sampler: Tide: HW

Depth Meters	Cl°/..	S°/..	Temp. °C	Sp. Gr. Situ	pH	O ₂ mg/l	O ₂ % Sat.	SiO ₃ mg/l	PO ₄ mg/m ³	NO ₃ mg/l
0	16.25	29.36	10.65	22.48	8.4	10.21	108.7	2.6	117	
1	16.25	29.36	10.6	22.49	8.35	10.09	108.7	2.55	125	
2	16.25	29.36	10.6	22.49	8.35	9.65	96.3	2.95	130	
4	16.54	29.88	9.8	23.02	8.2	8.34	88.4	3.3	137	
6	16.52	29.85	9.8	23.00	8.1	8.31	88.1	3.4	140	
10	16.72	30.21	9.15	23.37	8.0	7.84	72.1	3.9	144	
20	16.82	30.39	8.75	23.58	7.9	7.37	76.6	3.9	168	
30	16.80	30.35	8.65	23.56	7.95	7.28	75.6	4.2	156	
50	-----	-----	8.6	-----	7.9	7.28	-----	3.9	140	
100	17.22	31.11	8.0	24.25	7.85	5.98	61.7	4.7	175	
180	17.34	31.33	8.1	24.40	7.8	5.64	58.2	4.9	165	

Station 0 May 4, 1932 23:20 - 23:29 PST Barometer: - Air Temp: 53.6°F
Wind: SE Strong Weather: Vis. of Ekman Sampler: Tide: LW

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1	16.54	29.88	-----	-----	8.0	-----	-----	4.2	45	
2	16.55	29.90	9.6	23.06	8.05	8.23	86.8	3.6	100	
4	16.54	29.88	9.55	23.06	8.0	8.07	85.2	3.7	127	
6	16.55	29.90	9.4	23.09	8.05	7.95	82.0	3.8	102	
10	16.67	30.12	9.05	23.32	8.0	7.80	81.6	4.0	144	
20	16.75	30.26	8.9	23.45	7.95	7.46	77.9	3.9	140	
30	16.73	30.23	8.6	23.47	7.95	7.01	72.8	4.0	132	
50	16.87	30.48	-----	-----	7.95	6.64	-----	4.5	130	
100	17.18	31.04	8.0	24.19	7.9	6.96	71.7	4.5	147	
180	17.32	31.29	-----	-----	7.95	-----	-----	5.3	180	

Station 0 May 5, 1932 11:41 - 12:12 PST Barometer: 30.19 in. Air Temp: 55.3°F
Wind: ExS Light Weather: Vis. of Ekman Sampler: 4.0 m Tide: LLW

0	16.28	29.42	10.7	22.51	8.2	9.70	106.4	3.3	105	
1	16.27	29.40	10.6	22.52	8.15	9.86	106.2	3.5	117	
2	16.30	29.45	10.15	22.63	8.2	9.92	105.8	3.2	104	
4	16.36	29.56	9.7	22.79	8.1	9.23	97.6	3.9	117	
6	16.36	29.56	9.5	22.82	8.1	8.79	92.4	3.9	126	
10	16.39	29.61	9.2	22.90	8.0	8.36	87.4	4.0	114	
20	16.60	29.99	9.0	23.23	8.0	7.90	81.6	4.0	120	
30	16.71	30.19	9.1	23.37	7.95	7.68	71.7	4.2	165	
50	16.91	30.55	8.4	23.76	7.9	6.85	70.9	4.6	140	
100	17.18	31.04	8.1	24.18	7.82	5.80	59.9	4.6	160	
180	17.25	31.17	7.9	24.30	7.85	6.53	67.2	4.7	155	

Station 0 August 13, 1932 17:16 - 17:27 PST Barometer: 30.02 in. Air Temp: 60.5°F
Wind: Calm Weather: Overcast Vis. of Ekman Sampler: 7.0 m Tide: HHW

Depth Meters	Cl°/..	S°/..	Temp. °C	Sp. Gr. Situ	pH	O ₂ mg/l	O ₂ % Sat.	SiO ₃ mg/l	PO ₄ mg/m ³	NO ₃ mg/l
0	16.32	29.49	11.2	22.48	8.0	7.09	91.0	2.73	131	1.26
1	16.37	29.58	10.8	22.67	8.0	6.88	74.6	2.73	126	1.50
2	16.44	29.70	10.6	22.75	8.0	6.79	73.3	2.84	146	1.31
4	16.53	29.87	10.8	22.84	8.0	6.79	73.6	2.84	140	1.36
6	16.53	29.87	10.6	22.87	8.0	6.74	73.8	2.84	136	1.38
10	16.57	29.94	10.3	22.98	7.9	6.59	70.6	3.10	128	1.70
20	16.76	31.28	10.3	23.25	7.9	6.46	69.5	3.10	142	1.63
30	16.78	30.32	9.5	23.41	7.9	6.27	66.5	3.15	157	1.60
50	17.16	31.00	8.7	24.06	7.9	5.90	61.7	3.40	150	1.63
100	17.51	31.64	8.3	24.61	7.85	5.74	59.7	3.35	157	1.61
150	17.57	31.74	8.0	24.74	7.85	5.60	58.0	4.18	146	1.62

Station 0 August 13, 1932 22:30 - 22:40 PST Barometer: 30.00 in. Air Temp: 56.8°F
Wind: NW Breeze Weather: Clear Vis. of Ekman Sampler: Tide: LW

0	15.74	28.44	12.7	21.41	8.4	7.85	87.6	2.34	130	1.03
1	15.74	28.44	12.6	21.43	8.5	7.92	88.2	2.40	125	0.93
2	15.75	28.46	12.6	21.44	8.5	7.85	87.5	2.45	130	0.91
4	15.84	28.62	12.4	21.59	8.5	7.85	87.1	2.45	137	0.91
6	15.94	28.80	12.2	21.78	8.4	7.85	87.8	2.72	138	0.95
10	16.24	29.34	12.0	22.23	8.3	7.39	81.9	2.84	162	1.33
20	16.53	29.87	10.6	22.87	8.3	6.87	74.2	2.73	171	1.55
30	16.73	30.23	9.7	23.30	8.2	6.27	66.6	2.73	172	1.63
50	16.96	30.64	8.2	23.86	8.0	6.12	63.0	3.20	169	1.68
100	17.46	31.55	8.2	24.56	7.9	5.73	59.4	3.20	187	1.60
150	17.67	31.92	8.0	24.89	7.8	5.99	61.9	4.03	172	1.79

Station 0 August 14, 1932 02:15 - 02:24 PST Barometer: 30.01 in. Air Temp: 56.8°F
Wind: SW Strong Weather: Clear Vis. of Ekman Sampler: Tide: HW

0	13.59	24.56	17.0	17.56	8.7	9.01	106.8	0.82	66	0.13
1	13.59	24.56	17.0	17.56	8.7	9.01	107.1	0.77	54	0.15
2	13.59	24.56	17.0	17.56	8.6	9.02	107.0	0.85	66	0.13
4	13.59	24.56A	15.4	17.90	8.5	8.75	100.3	1.21	95	0.18
6	14.28	25.61	12.6	19.39	8.3	7.85	86.1	2.33	131	0.84
10	15.53	28.06	12.5	21.14	8.3	7.94	88.0	2.59	114	0.73
20	16.13	28.14	11.1	22.23	8.3	7.29	79.4	3.10	132	1.22
30	16.53	29.87	10.2	22.94	8.1	6.60	70.7	3.15	147	1.42
50	16.89	30.52	9.4	23.58	7.9	6.19	65.4	3.40	138	1.53
100	17.22	31.11	8.5	24.18	7.9	5.84	60.9	3.87	176	1.73
150	17.49	31.60	8.0	24.63	7.9	5.69	58.8	3.87	149	1.73

Station 0 August 14, 1932 09:40 - 09:49 PST Barometer: 29.97 in. Air Temp: 55.1°F
Wind: NW Mod. Weather: Clear Vis. of Ekman Sampler: 5.0 m Tide: LLW

Depth Meters	Cl°/..	S°/..	Temp. °C	Sp. Gr. Situ	pH	O ₂ mg/l	O ₂ % Sat.	SiO ₃ mg/l	PO ₄ mg/m ³	NO ₃ mg/l
0	14.29	25.82	16.3	18.68	8.5	8.99	105.9	1.08	73	0.18
1	14.29	25.82	16.3	18.68	8.6	9.04	106.4	1.06	59	0.20
2	14.29	25.82	16.2	18.70	8.6	9.01	105.9	1.06	71	0.19
4	14.29	25.82	16.2	18.70	8.5	9.00	105.8	1.16	75	0.18
6	14.29	25.82	15.6	18.82	8.5	9.15	106.2	1.16	67	0.22
10	15.62	28.22	12.7	21.33	8.2	8.06	89.8	2.54	114	1.20
20	16.44	29.70	10.2	22.81	7.9	6.51	69.6	3.02	140	1.48
30	16.65	30.08	9.2	23.27	7.85	5.95	62.4	3.31	114	1.55
50	17.04	30.79	9.0	23.84	7.85	6.06	63.6	3.48	155	1.70
100	17.59	31.78	8.3	24.72	7.85	5.62	58.5	4.03	160	1.83
150	17.62	31.83	8.0	24.82	7.8	5.56	58.9	4.20	155	1.83

Station 0 November 16, 1932 16:43 - 17:00 PST Barometer: 30.00 in. Air Temp: 46.4°F
Wind: NE Weather: Overcast Vis. of Ekman Sampler: Tide: HW

0	15.97	28.86	8.8	22.37	8.1	8.43	81.9	2.90		
1	16.06	29.02	8.8	22.49	8.0	8.29	85.6	2.92		
2	16.06	29.02	8.8	22.49	8.0	8.29	85.6	2.29		
4	16.06	29.02	8.8	22.49	8.0	8.29	85.6	3.06		
6	16.09	29.07	8.8	22.54	8.0	8.26	85.3	2.97		
10	16.15	29.18	8.9	22.61	8.0	7.94	82.4	3.00		
20	16.15	29.18	8.8	22.62	7.9	7.74	80.0	3.06		
30	16.25	29.36	8.6	22.80	7.9	6.82	70.2	3.45		
50	16.32	29.49	8.8	22.86	7.9	6.82	70.7	3.20		
100	16.81	30.37	8.7	23.57	7.8	5.16	52.6	4.03		
180	17.06	30.82	8.8	23.90	---	4.74	49.4	3.66		

Station 0 November 17, 1932 01:59 - 02:07 PST Barometer: 30.08 in. Air Temp: 46.4°F
Wind: Calm Weather: Rain Vis. of Ekman Sampler: Tide: LLW

0	15.92	28.77	8.7	22.32	8.1	8.78	90.2	2.92		
1	15.95	28.82	8.7	22.35	8.1	8.65	89.0	3.10		
2	16.02	28.95	8.8	22.44	8.1	8.65	89.3	3.10		
4	16.02	28.95	8.8	22.44	8.1	8.65	89.3	3.10		
6	16.11	29.11	8.8	22.56	8.1	8.10	83.7	3.05		
10	16.14	29.16	8.9	22.60	8.0	7.75	80.4	3.20		
20	16.18	29.23	8.8	22.67	8.0	7.42	76.8	3.31		
30	16.18	29.23	8.8	22.67	7.9	7.05	73.0	3.54		
50	16.42	29.67	8.7	23.01	7.9	6.54	67.8	3.54		
100	16.79	30.34	8.7	23.54	7.8	4.97	51.1	3.90		
150	16.99	30.70	8.7	23.82	7.8	4.76	49.6	3.90		

Station P May 5, 1932 19:35 - 20:04 PST Barometer: 30.13 in. Air Temp: 55.4°F
Wind: SxSE Light Weather Vis. of Ekman Sampler: Tide: HHW

Depth Meters	Cl°/..	S°/..	Temp. °C	Sp. Gr. Situ	pH	O ₂ mg/l	O ₂ % Sat.	SiO ₃ mg/l	PO ₄ mg/m ³	NO ₃ mg/l
0	13.32	24.07	13.4	17.92	8.5	9.80	106.8	2.6	59	
1	13.35	24.13	13.3	17.98	8.5	9.95	109.0	3.6	58	
2	13.56	24.51	13.1	18.31	8.5	10.07	110.1	3.1	64	
4	13.75	24.85	13.1	18.57	8.5	10.00	109.9	3.6	65	
6	13.81	24.96	13.1	18.66	8.5	9.95	109.4	3.8	60	
10	13.94	25.19	13.1	18.84	8.5	10.13	111.5	4.4	62	
20	16.32	29.49	8.45	22.91	8.0	7.67	79.0	4.0	153	
30	16.61	30.01	8.0	23.39	8.0	7.28	74.4	3.4	158	
50	16.87	30.48	7.8	23.78	7.9	7.13	72.6	3.7	164	
100	17.01	30.73	7.45	24.02	7.9	6.92	70.1	4.0	148	
200	17.30	31.26	----	-----	7.9	4.74	-----	4.7	165	

Station P May 6, 1932 00:35 - 00:47 PST Barometer: 30.15 in. Air Temp: 53.6°F
Wind: NW Light Weather: Vis. of Ekman Sampler: Tide: LW

0	13.51	24.42	13.0	18.25	8.55	9.68	105.9	3.8	41	
1	13.59	24.56	13.35	18.30	8.55	9.95	109.6	3.9	39	
2	13.67	24.70	13.2	18.45	8.55	9.90	91.9	3.8	38	
4	13.72	24.79	13.2	18.51	8.5	9.89	91.9	3.65	40	
6	13.76	24.87	13.2	18.57	8.5	9.92	91.5	3.8	40	
10	14.10	25.48	13.0	19.07	8.5	9.92	91.5	3.1	42	
20	16.43	29.69	8.4	23.08	8.05	7.75	79.7	4.7	149	
30	16.63	30.05	8.0	23.42	8.05	7.35	75.2	4.7	150	
50	16.78	30.32	7.7	23.67	8.0	7.21	73.4	4.9	150	
100	17.03	30.77	7.8	24.01	8.0	6.98	71.4	4.8	155	
200	17.35	31.35	8.6	24.34	7.8	4.62	48.2	5.4	177	

Station P May 6, 1932 05:06 - 05:16 PST Barometer: 30.14 in. Air Temp: 52.4°F
Wind: Calm Weather: Vis. of Ekman Sampler: Tide: HW

0	13.54	24.47	13.0	18.30	8.3	9.60	105.0	3.3	41	
1	13.71	24.78	13.2	18.49	8.25	9.75	107.3	3.4	40	
2	13.74	24.83	13.2	18.54	8.25	9.82	108.1	3.4	47	
4	13.77	24.88	13.2	18.58	8.3	9.95	109.8	3.6	47	
6	13.88	25.08	13.1	18.75	8.3	10.07	111.0	3.0	43	
10	14.24	25.73	12.8	19.30	8.25	9.99	109.8	3.2	45	
20	16.30	29.45	8.45	22.88	7.95	7.65	78.6	4.6	155	
30	16.68	30.14	8.0	23.48	7.9	7.1	72.9	4.9	149	
50	16.84	30.43	7.75	23.74	7.87	7.1	72.5	4.8	151	
100	17.02	30.75	7.60	24.03	7.85	6.8	69.7	4.9	159	
200	17.14	30.97	8.60	24.05	7.8	4.27	44.5	5.2	163	

Station P May 6, 1932 12:21 - 12:32 PST Barometer: 30.11 in. Air Temp. 57.7°F
 Wind: S Light Weather: Vis. of Ekman Sampler: 4.0 m Tide: LLW

Depth Meters	Cl°/..	S°/..	Temp. °C	Sp. Gr. Situ	pH	O ₂ mg/l	O ₂ % Sat.	SiO ₃ mg/l	PO ₄ mg/m ³	NO ₃ mg/l
0	12.90	23.31	15.3	16.99	8.2	9.63	108.9	4.1	34	
1	13.27	23.98	13.85	17.77	8.3	10.05	111.3	3.9	35	
2	13.37	24.16	13.50	17.97	8.3	9.99	110.0	3.7	34	
4	13.59	24.56	13.35	18.30	8.3	9.75	107.4	3.7	36	
6	13.68	24.72	13.20	18.46	8.3	9.77	107.6	3.9	44	
10	14.32	25.88	12.9	19.40	8.3	9.71	116.9	3.4	47	
20	16.21	29.29	8.6	22.74	8.02	7.77	80.0	4.9	141	
30	16.68	30.14	8.0	23.48	7.87	7.04	72.0	5.1	166	
50	16.82	30.39	7.75	23.72	7.85	6.94	71.6	5.1	161	
100	17.05	30.81	7.6	24.06	7.83	6.48	66.0	4.9	143	
200	17.39	31.42	8.6	24.00	7.75	4.68	48.8	5.6	139	

Station P August 2, 1932 19:08 - 19:21 PST Barometer: 30.14 in. Air Temp: 66.6°F
Wind: NW Weather: Fair Vis. of Ekman Sampler: Tide: HHW

Depth Meters	Cl°/..	S°/..	Temp. °C	Sp. Gr. Situ	pH	O ₂ mg/l	O ₂ % Sat.	SiO ₃ mg/l	PO ₄ mg/m ³	NO ₃ mg/l
0	11.20	20.25	17.6	14.15	8.5	8.65	101.0	0.73	70	0.56
1	11.18	20.21	17.6	14.12	8.5	8.74	102.0	0.73	67	0.33
2	11.18	20.21	17.6	14.12	8.5	8.74	102.0	0.64	71	0.23
4	11.21	20.26	17.6	14.17	8.5	8.64	102.0	0.60	60	0.22
6	11.61	20.99	16.8	14.89	8.4	8.66	101.1	0.75	73	0.38
10	13.51	24.42	13.1	18.23	8.2	8.23	90.2	1.29	77	0.41
20	16.81	30.37	9.1	23.51	7.9	5.99	62.8	3.10	163	.23
30	16.96	30.64	9.0	23.74	7.8	5.81	60.9	3.10	160	2.29
50	17.22	31.11	8.3	24.21	7.8	5.97	62.1	3.42	168	2.29
100	17.38	31.40	8.2	24.45	7.8	5.95	61.7	3.45	186	2.26
200	17.70	31.98	8.25	24.89	7.8	4.46	46.6	4.15	178	2.40

Station P August 3, 1932 00:31 - 00:41 PST Barometer: 30.12 in. Air Temp: 64.0°F
Wind: NW Mod Weather: Vis. of Ekman Sampler: Tide: LW

0	11.06	19.99	17.4	14.00	8.7	8.70	101.0	0.54	60	0.36
1	11.05	19.98	17.4	13.99	8.7	8.79	102.0	0.57	54	0.26
2	11.08	20.03	17.3	14.05	8.7	8.81	102.1	0.54	66	0.29
4	11.16	20.27	17.3	14.16	8.7	8.87	102.8	0.63	42	0.30
6	11.57	20.91	16.8	14.83	8.7	9.06	101.1	0.75	43	0.29
10	14.38	25.99	12.5	19.54	8.5	8.16	88.0	1.43	93	0.70
20	16.73	30.23	9.4	23.34	8.0	6.15	64.8	3.36	140	2.69
30	17.01	30.73	9.0	23.80	8.0	6.11	64.2	3.48	156	3.01
50	17.31	31.27	8.3	24.33	8.0	6.31	65.6	3.33	159	2.97
100	17.42	31.47	8.2	24.50	8.0	6.13	63.6	3.58	230	2.69
200	17.64	31.87	8.15	24.82	7.9	5.24	54.4	3.90	171	3.22

Station P August 3, 1932 04:44 - 04:54 PST Barometer: 30.15 in. Air Temp: 57.2°F
Wind: NW Weather: Fair Vis. of Ekman Sampler: Tide: HW

0	11.20	30.26	17.3	14.21	8.4	8.85	99.4	0.53	56	0.25
1	11.15	20.16	17.3	14.15	8.5	8.80	102.1	0.54	58	0.24
2	11.15	20.16	17.3	14.15	8.4	8.29	96.2	0.54	49	0.25
4	11.15	20.16	17.3	14.15	8.5	8.83	102.4	0.57	42	0.26
6	12.47	22.54	16.2	16.09	8.5	8.96	103.3	0.81	42	0.28
10	14.02	25.34	13.9	18.79	8.3	8.84	98.9	0.79	73	0.34
20	16.68	30.14	9.4	23.28	7.9	6.15	64.8	2.76	153	2.00
30	16.97	30.66	8.8	23.77	7.8	5.99	62.6	3.36	163	1.94
50	17.18	31.04	8.3	24.15	7.8	6.13	63.7	3.66	160	1.90
100	17.32	31.29	8.2	24.36	7.7	6.28	64.9	4.11	160	2.15
200	17.60	31.80	8.3	24.74	7.8	5.11	53.2	4.90	155	2.15

Station P August 3, 1932 11:57 - 12:07 PST Barometer: 30.20 in. Air Temp: -
Wind: NW Weather: Fair Vis. of Ekman Sampler: Tide: LLW

Depth Meters	Cl°/..	S°/..	Temp. °C	Sp. Gr. Situ	pH	O ₂ mg/l	O ₂ % Sat.	SiO ₃ mg/l	PO ₄ mg/m ³	NO ₃ mg/l
0	11.21	20.26	17.8	14.13	8.4	8.75	102.6	0.66	33	0.31
1	11.21	20.26	17.8	14.13	8.4	8.81	103.3	0.65	41	0.22
2	11.22	20.28	17.7	14.14	8.4	8.95	104.8	0.66	39	0.20
4	11.68	21.11	16.9	14.96	8.5	9.04	104.6	0.59	33	0.23
6	12.95	23.40	14.3	17.23	8.4	9.09	101.2	0.84	33	0.21
10	13.90	25.12	14.8	18.45	8.2	8.62	98.1	1.70	85	0.44
20	16.52	29.85	9.1	23.10	7.9	6.57	70.0	3.25	180	1.38
30	16.98	30.68	8.6	23.82	7.8	6.11	63.5	3.66	177	1.80
50	17.10	30.90	8.4	24.02	7.85	6.30	65.4	3.54	160	1.97
100	17.39	31.42	8.1	24.47	7.8	6.21	64.2	4.20	183	1.97
200	17.69	31.96	8.3	24.87	7.8	5.38	56.1	4.79	183	1.58

Station P November 13, 1932 11:50 - 12:00 PST Barometer: 29.65 in. Air Temp: -
Wind: W Weather: Rain Vis. of Ekman Sampler: Tide: LW

0	14.87	26.87	8.6	20.86	7.8	8.92	90.4	2.97		
1	14.87	26.87	8.7	20.84	7.8	8.83	89.6	3.00		
2	14.87	26.87	8.7	20.84	7.8	8.83	89.6	3.00		
4	15.22	27.50	8.9	21.30	8.0	8.90	91.4	3.00		
6	15.39	27.81	8.9	21.54	8.0	8.81	91.6	3.10		
10	15.47	27.95	8.9	21.66	8.0	8.76	90.1	3.10		
20	15.75	28.46	8.9	22.05	8.0	8.63	88.9	3.10		
30	16.22	29.31	8.9	22.71	8.0	6.49	67.4	3.10		
50	16.80	30.35	9.0	23.51	8.0	4.64	48.5	3.66		
100	17.00	30.72	9.2	23.76	8.0	4.71	49.7	4.20		
200	17.09	30.88	8.5	24.00	7.8	4.51	46.8	5.00		

Station P November 13, 1932 23:52 - 00:11 PST Barometer: 29.80 in. Air Temp: 42.8°F
Wind: Calm Weather: Cloudy Vis. of Ekman Sampler: Tide: LLW

0	14.36	25.95	8.3	20.18	8.0	9.33	93.4	2.62		
1	14.38	25.99	8.4	20.18	8.0	9.06	91.0	2.65		
2	14.63	26.44	8.5	20.53	8.0	9.00	90.8	2.53		
4	14.99	27.09	8.8	21.00	8.0	8.94	91.1	2.66		
6	15.19	27.45	8.85	21.27	8.0	8.74	89.4	2.52		
10	15.36	27.75	8.95	21.50	8.0	8.58	87.6	2.97		
20	16.04	28.98	9.0	22.44	8.0	7.12	74.2	3.10		
30	16.54	29.88	8.7	23.19	7.8	5.52	67.2	4.00		
50	16.80	30.35	9.0	23.51	7.8	4.82	50.4	3.42		
100	16.98	30.68	9.1	23.75	7.8	4.62	48.6	4.28		
200	17.09	30.88	8.5	23.99	7.8	4.44	46.1	5.00		

Station P November 14, 1932 07:44 - 07:50 PST Barometer: 29.88 in. Air Temp: 43.7°F
 Wind: SE Light Weather: Rain Vis. of Ekman Sampler: Tide: HHW

Depth Meters	Cl°/..	S°/..	Temp. °C	Sp. Gr. Situ	pH	O ₂ mg/l	O ₂ % Sat.	SiO ₂ mg/l	PO ₄ mg/m ³	NO ₃ mg/l
0	14.52	26.24	8.2	20.42	7.9	9.36	93.6	2.85		
1	14.52	26.24	8.2	20.42	8.0	9.22	92.2	2.80		
2	14.53	26.26	8.3	20.41	8.0	9.26	94.5	2.80		
4	14.63	26.44	8.7	20.50	8.0	9.06	91.6	2.97		
6	15.10	27.29	8.8	21.15	8.0	8.76	89.5	2.85		
10	15.37	27.77	8.95	21.51	8.0	8.68	88.8	2.97		
20	16.27	29.40	9.0	22.77	7.9	6.56	63.2	3.73		
30	16.62	30.03	8.7	23.30	7.75	5.42	56.3	4.38		
50	15.89	28.71	9.0	22.24	7.8	4.57	47.4	3.75		
100	16.09	29.07	9.1	22.50	7.9	4.78	49.2	3.88		
200	16.11	29.11	8.5	22.61	7.7	4.44	45.6	5.00		

Station Q May 6, 1932 20:02 - 20:10 PST Barometer: 29.95 in. Air Temp: -
Wind: E Light Weather: Vis. of Ekman Sampler: 0.5 m Tide: HHW

Depth Meters	Cl°/‰	S°/‰	Temp. °C	Sp. Gr. Situ	pH	O ₂ mg/l	O ₂ % Sat.	SiO ₃ mg/l	PO ₄ mg/m ³	NO ₃ mg/l
0	10.92	19.74	13.2	14.63	8.3	10.06	107.1	4.80	48	.13
1	10.94	19.78	13.0	14.69	8.3	10.77	114.1	5.35	53	.12
2	11.69	21.13	11.95	15.90	8.3	10.77	113.0	4.61	52	.14
4	13.56	24.51	11.4	18.60	8.35	10.15	107.8	4.41	87	.17
6	15.25	27.56	10.7	21.07	8.45	-----	-----	-----	---	.21
10	15.84	28.62	10.0	22.01	8.3	9.81	96.3	3.70	98	.24
20	16.68	30.14	8.0	23.48	7.95	7.96	81.4	4.88	144	.26
30	17.01	30.73	7.75	23.99	7.9	7.26	74.3	5.3	132	0
50	17.20	31.08	7.70	24.27	7.9	7.02	72.1	5.7	151	0
100	17.32	31.29	7.45	24.46	7.9	7.10	72.3	5.6	144	0
160	17.39	31.42	7.50	24.55	7.9	-----	-----	6.0	135	0

Station Q May 7, 1932 01:00 - 01:10 PST Barometer: 29.93 in. Air Temp: 55.1°F
Wind: SE Strong Weather: Vis. of Ekman Sampler: Tide: LW

0	8.69	15.72	12.50	11.64	8.3	9.94	101.9	5.85	57
1	8.74	15.81	12.50	11.71	8.25	10.04	103.1	5.95	54
2	10.94	19.78	12.00	14.85	8.3	9.78	102.0	5.23	57
4	13.00	23.50	11.40	17.81	8.3	9.77	103.0	4.56	90
6	15.02	27.14	10.65	20.75	8.3	9.74	103.8	3.51	102
10	15.51	28.03	10.05	21.53	8.3	9.90	104.7	3.16	109
20	16.45	29.72	7.8	23.19	7.95	7.19	73.2	4.33	140
30	16.75	30.26	7.8	23.61	7.9	7.15	73.2	5.0	165
50	16.92	30.57	7.6	23.88	7.9	6.95	70.8	5.4	165
100	17.04	30.79	7.5	24.06	7.9	7.14	72.6	4.9	162
160	17.14	30.97	7.65	24.18	7.9	6.68	68.4	5.2	158

Station Q May 7, 1932 05:30 PST Barometer: 29.92 in. Air Temp: 53.6°F
Wind: W Strong Weather: Vis. of Ekman Sampler: Tide: HW

0	9.77	17.66	12.40	13.16	8.1	9.81	101.7	6.20	74
1	9.85	17.81	12.43	13.26	8.1	10.00	103.9	5.55	60
2	9.98	18.04	12.45	13.44	8.1	10.03	104.2	5.48	59
4	14.15	25.57	11.2	19.45	8.15	10.29	109.3	4.02	90
6	15.35	27.74	10.15	21.30	8.1	9.66	101.9	3.45	110
10	16.20	29.27	9.0	22.67	8.1	9.70	99.3	3.71	115

Station Q May 7, 1932 12:18 - 12:28 PST Barometer: 30.02 in. Air Temp: 53.6°F
Wind: SE Mod. Weather: Vis. of Ekman Sampler: 2.0 m Tide: LLW

Depth Meters	Cl°/..	S°/..	Temp. °C	Sp. Gr Situ	pH	O ₂ mg/l	O ₂ % Sat.	SiO ₃ mg/l	PO ₄ mg/m ³	NO ₃ mg/l
0	8.12	14.69	13.30	10.72	8.15	8.20	85.0	5.00	---	
1	8.22	14.87	13.15	10.89	8.15	10.57	109.1	5.85		
2	9.82	17.76	12.50	13.21	8.1	10.27	106.6	4.84	52	
4	12.62	22.81	11.40	17.28	8.1	9.95	104.4	4.63	73	
6	15.32	27.68	10.50	21.20	8.1	9.45	100.3	3.51	97	
10	15.88	28.69	9.60	22.13	8.15	9.84	95.7	3.27	104	
20	16.74	30.25	7.90	23.58	7.95	---	---	4.0	134	
30	16.96	30.64	7.80	23.91	7.9	7.51	76.8	4.7	150	
50	17.13	30.95	7.75	24.16	7.85	7.28	74.5	4.6	168	
100	17.32	31.29	7.50	24.46	7.85	7.17	73.0	4.7	144	
160	17.44	31.51	7.65	24.61	7.85	6.57	67.3	5.0	150	

Station Q July 5, 1932 12:31 - 12:55 PST Barometer: 30.15 in. Air Temp: 58.1°F
Wind: SE Light Weather: Clear Vis. of Ekman Sampler: Tide: LLW

0	12.95	23.40	16.9	16.71	8.5	8.85	103.8	0.69	84	
1	13.03	23.55	16.2	16.97	8.5	8.86	102.8	0.74	74	
2	13.07	23.62	16.0	17.07	8.5	8.95	103.2	0.74	80	
4	13.20	23.86	15.8	17.28	8.5	9.00	103.8	0.80	64	
6	13.66	24.69	15.8	17.92	8.4	9.77	112.9	1.29	85	
10	14.38	25.99	14.4	19.19	8.4	9.65	109.5	1.40	79	
20	16.55	29.90	10.1	22.98	8.0	7.61	81.4	2.40	146	
30	16.86	30.46	9.1	23.58	7.9	6.85	71.9	3.80	198	
50	17.12	30.93	8.3	24.06	7.9	6.93	72.0	4.60	219	
100	17.46	31.55	8.4	24.52	7.85	6.38	66.7	4.03	219	

Station Q July 5, 1932 20:52 - 21:00 PST Barometer: 30.18 in. Air Temp: 61.2°F
Wind: E Breeze Weather: Vis. of Ekman Sampler: Tide: HHW

0	10.02	18.12	17.0	12.66	8.6	9.29	106.4	2.29	94	
1	11.65	21.06	16.4	15.03	8.6	9.37	107.2	1.05	72	
2	12.07	21.82	16.2	15.64	8.6	9.00	103.2	1.08	69	
4	13.01	23.51	16.1	16.96	8.6	9.00	104.2	1.08	60	
6	13.60	24.58	15.6	17.87	8.6	9.29	106.9	0.89	58	
10	14.53	26.26	14.4	19.40	8.6	---	---	1.16	56	
20	16.71	30.19	9.5	23.31	8.0	6.59	69.6	3.48	148	
30	16.85	30.44	9.0	23.58	8.0	6.24	65.2	3.88	145	
50	17.15	30.99	8.4	24.09	7.9	6.25	67.7	4.28	150	
100	17.45	31.53	8.4	24.51	7.9	5.92	61.7	4.11	150	

Station Q July 6, 1932 01:57 - 02:05 PST Barometer: 30.20 in. Air Temp: 57.2°F
Wind: SE Breeze Weather: Vis. of Ekman Sampler: Tide: LW

Depth Meters	Cl°/..	S°/..	Temp. °C	Sp. Gr. Situ	pH	O ₂ mg/l	O ₂ % Sat.	SiO ₃ mg/l	PO ₄ mg/m ³	NO ₃ mg/l
0	9.64	17.43	15.8	12.38	8.7	9.16	96.1	3.20	50	
1	11.43	20.66	15.8	15.85	8.6	9.00	101.6	1.95	61	
2	12.60	22.77	16.1	16.39	8.65	8.81	101.3	1.21	47	
4	12.75	23.04	16.2	16.58	8.6	9.07	104.8	1.15	57	
6	13.01	23.51	15.8	17.02	8.6	8.85	99.6	1.14	54	
10	14.53	26.26	14.7	19.34	8.6	9.55	101.9	1.05	61	
20	16.47	29.76	10.1	22.88	8.3	7.43	79.2	2.74	131	
30	16.91	30.55	8.8	23.70	8.1	6.46	67.4	4.20	163	
50	17.12	30.93	8.3	24.06	7.9	6.60	68.4	4.38	164	
100	17.43	31.49	8.3	24.50	7.95	6.41	66.6	4.11	161	

Station Q July 6, 1932 05:39 - 05:47 PST Barometer: - Air Temp: 55.4°F
Wind: SE Weather: Vis. of Ekman Sampler: Tide: HW

0	11.97	21.64	16.1	15.53	8.6	9.08	103.8	1.71	66	
1	12.01	21.71	16.1	15.58	8.6	9.15	104.8	1.51	66	
2	12.15	21.96	16.2	15.75	8.6	9.10	104.3	1.50	53	
4	12.24	22.12	16.2	15.88	8.4	9.05	114.2	1.46	58	
6	12.83	23.19	16.1	16.72	8.6	9.18	105.2	1.02	59	
10	14.42	26.06	14.4	19.25	8.5	9.91	104.5	0.84	59	
20	16.63	30.05	9.8	22.15	8.0	7.31	77.7	3.15	149	
30	16.91	30.55	9.0	23.67	7.9	6.81	71.4	4.55	155	
50	17.13	30.95	8.4	24.07	7.9	6.70	69.6	4.55	158	
100	17.43	31.49	8.4	24.48	7.9	6.65	69.4	4.60	134	

Station Q November 8, 1932 14:11 - 14:22 PST Barometer: 30.14 in. Air Temp: -
Wind: NW Breeze Weather: Vis. of Ekman Sampler: Tide: HHW

0	13.27	23.98	8.8	18.58	8.0	9.40	93.7	2.88		
1	14.26	25.77	8.8	19.97	8.0	9.42	94.3	2.80		
2	14.26	25.77	8.9	19.95	8.0	9.37	94.8	2.66		
4	13.78	24.90	8.8	19.29	7.9	9.05	90.8	2.66		
6	13.91	25.14	8.8	19.47	7.9	8.76	88.3	2.73		
10	14.53	26.26	9.0	20.32	7.9	8.04	80.9	2.92		
20	16.62	30.03	9.25	23.21	7.8	5.72	60.1	3.66		
30	16.78	30.32	9.2	23.45	7.8	5.39	56.7	3.20		
50	16.98	30.68	9.3	23.72	7.8	5.08	53.7	3.25		
100	17.06	30.82	9.4	23.81	7.8	5.02	53.2	3.48		
150	17.11	30.91	9.2	23.92	---	5.02	53.0	3.48		

Station Q November 8, 1932 21:08 - 21:16 PST Barometer: 30.35 in. Air Temp: 46.4°F
Wind: NW Weather: Cloudy Vis. of Ekman Sampler: Tide: LLW

Depth Meters	Cl°/..	S°/..	Temp. °C	Sp. Gr. Situ	pH	O ₂ mg/l	O ₂ % Sat.	SiO ₃ mg/l	PO ₄ mg/m ³	NO ₃ mg/l
0	13.06	23.60	8.6	18.31	8.1	9.55	94.1	2.82		
1	13.09	23.66	8.6	18.34	8.1	9.46	93.9	2.92		
2	13.11	23.69	8.6	18.37	8.1	9.46	93.6	2.97		
4	13.13	23.73	8.6	18.41	8.1	9.44	93.6	2.97		
6	13.49	24.38	8.8	18.88	8.1	9.16	90.6	3.00		
10	14.76	26.67	9.0	20.65	8.1	8.25	84.5	3.06		
20	16.42	29.67	9.2	22.94	8.0	5.94	61.4	3.20		
30	16.54	29.88	9.2	23.11	8.0	5.56	58.2	3.20		
50	16.77	30.30	9.3	23.42	8.0	5.12	53.9	3.31		
100	17.03	30.77	9.3	23.79	8.0	5.05	58.1	3.31		

Station Q November 9, 1932 01:36 - 01:44 PST Barometer: 30.35 in. Air Temp: 46.4°F
Wind: NW Strong Weather: Vis. of Ekman Sampler: Tide: HW

0	13.74	24.83	8.5	19.28	8.0	9.56	92.7	2.92		
1	13.74	24.83	8.5	19.28	8.0	9.56	92.7	2.88		
2	13.74	24.83	8.5	19.28	8.0	9.56	92.7	2.88		
4	13.79	24.92	8.6	19.33	8.0	9.45	94.5	2.88		
6	14.21	25.68	8.9	19.89	8.0	9.20	92.0	2.78		
10	14.56	26.31	9.0	20.37	7.9	8.81	89.7	2.82		
20	16.52	29.85	9.1	23.10	7.9	5.61	58.3	3.31		
30	16.57	29.94	9.2	23.15	7.9	5.51	57.2	3.54		
50	16.69	30.16	9.3	23.31	7.9	5.08	52.9	3.60		
100	16.46	29.74	8.4	23.12	7.9	5.72	58.8	3.60		

Station R July 20, 1932 20:00 - 20:22 PST Barometer: - Air Temp: -
 Wind: - Weather: Vis. of Ekman Sampler: Tide: HHW

Depth Meters	Cl°/..	S°/..	Temp. °C	Sp. Gr. Situ	pH	O ₂ mg/l	O ₂ % Sat.	SiO ₃ mg/l	PO ₄ mg/m	NO ₃ mg/l
0	17.61	31.82	9.5	24.57	8.0	5.53	58.1	2.69	170	
1	17.61	31.82	9.4	24.59	8.0	5.46	57.4	2.92	163	
2	17.61	31.82	9.4	24.59	8.0	5.57	58.5	2.80	163	
4	17.60	31.80	9.4	24.58	8.0	5.45	57.3	2.62	171	
6	17.59	31.78	9.4	24.56	8.0	5.49	57.6	2.82	158	
10	17.60	31.80	9.4	24.58	8.0	5.49	57.6	2.71	151	
20	17.61	31.82	9.4	24.59	8.0	5.45	57.3	2.90	168	
30	17.59	31.78	9.4	24.56	8.0	5.46	57.4	2.85	159	
50	17.63	31.85	9.4	24.61	7.9	5.42	57.0	3.00	161	
100	17.63	31.85	9.2	24.65	7.9	5.0	52.2	3.27	164	
200	17.92	32.38	9.00	25.08	7.9	4.37	46.1	3.25	180	

Station R July 21, 1932 02:25 - 02:56 PST Barometer: - Air Temp: 50.0°F
 Wind: Calm Weather: Clear Vis. of Ekman Sampler Tide: LW

0	17.19	31.06	9.9	23.91	8.1	5.53	59.0	2.71	174	
1	17.26	31.18	9.9	24.01	8.1	5.33	56.9	2.92	170	
2	17.29	31.24	9.8	24.08	8.0	5.11	54.6	2.92	163	
4	17.37	31.38	9.7	24.20	8.0	4.70	50.2	3.10	171	
6	17.39	31.42	9.6	24.24	8.0	5.24	55.6	3.10	178	
10	17.41	31.46	9.6	24.27	8.0	5.61	59.8	3.06	180	
20	17.46	31.55	9.5	24.36	8.0	5.19	55.1	3.12	183	
30	17.50	31.62	9.5	24.41	8.0	5.44	57.9	3.01	171	
50	17.58	31.76	9.5	24.53	8.0	5.56	59.4	3.23	183	
100	17.67	31.92	9.3	24.69	8.0	5.38	57.1	3.31	177	
200	17.91	32.36	8.9	25.09	8.0	4.43	46.7	3.42	186	

Station R July 21, 1932 07:15 - 07:43 PST Barometer: 29.98 in. Air Temp: 51.8°F
 Wind: Calm Weather: Haze Vis. of Ekman Sampler: 6.0 m Tide: HW

0	17.29	31.24	10.0	24.04	8.0	6.34	67.8	2.66	134	
1	17.29	31.24	9.9	24.06	8.0	5.95	63.5	2.95	148	
2	17.28	31.22	9.9	24.04	8.0	5.96	63.5	2.97	132	
4	17.31	31.27	9.8	24.10	8.0	6.01	64.1	3.01	146	
6	17.30	31.26	9.8	24.09	8.0	4.76	50.8	2.80	158	
10	17.43	31.49	9.7	24.29	8.0	5.45	58.2	2.85	171	
20	17.46	31.55	9.6	24.34	8.0	4.99	53.2	3.16	169	
30	17.50	31.62	9.6	24.40	8.0	5.53	59.0	3.15	163	
50	17.55	31.71	9.5	24.48	8.0	4.49	47.9	3.00	158	
100	17.84	32.23	9.1	24.96	8.0	4.47	47.6	3.80	180	
200	18.03	32.57	8.8	25.29	7.8	4.35	45.9	3.60	172	

Station R July 21, 1932 13:43 - 14:06 PST Barometer 29.99 in. Air Temp: 56.3°F
 Wind: SE Light Weather: Vis. of Ekman Sampler: Tide: LLW

Depth Meters	Cl°/..	S°/..	Temp. °C	Sp. Gr. Situ	pH	O ₂ mg/l	O ₂ % Sat.	SiO ₃ mg/l	PO ₄ mg/m ³	NO ₃ mg/l
0	17.12	30.93	10.8	23.67	8.0	6.67	72.5	2.73	176	
1	17.16	31.00	10.8	23.73	8.0	6.76	73.1	2.97	174	
2	17.16	31.00	10.7	23.74	8.0	6.72	73.0	2.80	170	
4	17.14	30.97	10.5	23.75	8.0	6.07	65.6	2.73	174	
6	17.27	31.20	10.0	24.01	8.0	6.21	66.5	2.69	180	
10	17.27	31.20	10.25	23.97	8.0	6.44	69.2	2.97	174	
20	17.38	31.40	9.7	24.22	7.9	5.41	57.8	2.84	179	
30	17.46	31.55	9.5	24.36	7.9	5.59	58.4	2.97	180	
50	17.57	31.74	9.5	24.51	7.9	5.18	55.3	3.07	177	
100	17.72	32.01	9.2	24.77	7.8	5.08	53.9	3.15	183	
200	17.99	32.50	8.8	25.21	7.8	4.86	51.4	3.31	194	

Station S August 11, 1932 13:16 - 13:25 PST Barometer: 30.00 in. Air Temp: 54.7°F
Wind: W Strong Weather: Vis. of Ekman Sampler: 12.0 m Tide: HW

Depth Meters	Cl°/..	S°/..	Temp. °C	Sp. Gr. Situ	pH	O ₂ mg/l	O ₂ % Sat.	SiO ₃ mg/l	PO ₄ mg/m ³	NO ₃ mg/l
0	17.60	31.80	9.6	24.54	7.95	6.60	70.8	2.80	171	1.21
1	17.64	31.87	9.6	24.60	7.95	6.50	69.6	2.97	155	1.29
2	17.64	31.81	9.6	24.60	7.95	6.60	70.8	2.88	164	1.09
4	17.64	31.87	9.6	24.60	7.95	6.55	70.2	2.95	158	1.23
6	17.64	31.87	9.5	24.61	7.95	6.51	69.6	2.98	147	1.32
10	17.64	31.87	9.5	24.61	7.95	6.47	68.4	2.95	150	1.36
20	17.60	31.80	9.5	24.56	7.95	6.60	70.4	2.92	146	1.31
30	17.68	31.94	9.5	24.66	7.95	6.55	70.2	2.95	148	1.42
50	18.08	32.66	8.8	25.34	7.95	6.07	64.3	2.88	163	1.55
100	18.16	32.81	8.8	25.45	7.95	5.87	62.3	3.06	155	1.62
180	18.27	33.01	8.7	25.62	7.95	5.87	62.1	3.15	150	1.80

Station S August 11, 1932 17:11 - 17:20 PST Barometer: 29.98 in. Air Temp: 58.8°F
Wind: W Strong Weather: Clear Vis. of Ekman Sampler: 9.0 m Tide: LW

0	17.43	31.49	10.0	24.24	8.0	7.15	77.1	2.74	155	1.29
1	17.45	31.53	10.0	24.26	8.0	7.13	76.8	2.77	148	1.09
2	17.49	31.60	9.9	24.34	8.0	7.13	76.8	3.01	153	1.09
4	17.49	31.60	9.8	24.36	7.95	7.08	76.1	2.77	157	1.09
6	17.52	31.65	9.7	24.41	7.95	6.87	73.7	2.95	153	1.07
10	17.51	31.64	9.7	24.40	7.95	6.96	74.7	3.06	153	1.09
20	17.58	31.76	9.5	24.53	7.9	6.69	71.4	2.87	157	1.22
30	17.59	31.78	9.5	24.54	7.9	6.60	70.5	2.67	163	1.09
50	17.64	31.87	9.4	24.63	7.9	6.45	68.9	3.12	149	1.09
100	18.06	32.63	8.8	25.32	7.9	5.98	63.4	3.00	151	1.09
180	18.10	32.70	8.7	25.38	7.9	5.98	63.4	2.97	142	1.19

Station S August 12, 1932 22:52 - 23:02 PST Barometer: 30.04 in. Air Temp: 54.5°F
Wind: W Light Weather: Overcast Vis. of Ekman Sampler: Tide: HHW

0	17.71	32.00	9.4	24.73	8.1	6.60	69.4	2.76	205	1.05
1	17.71	32.00	9.4	24.73	8.1	6.59	70.4	2.76	201	1.11
2	17.71	32.00	9.4	24.73	8.1	6.43	68.6	2.76	201	1.05
4	17.71	32.00	9.4	24.73	8.1	6.44	68.8	2.76	200	1.07
6	17.71	32.00	9.4	24.73	8.1	6.37	68.1	2.76	200	1.12
10	17.71	32.00	9.4	24.73	8.1	6.40	68.3	2.76	188	1.03
20	17.71	32.00	9.35	24.73	8.1	6.41	68.4	2.84	198	1.03
30	17.79	32.14	9.3	24.85	8.1	6.41	68.4	----	213	1.03
50	17.89	32.32	9.1	25.03	8.1	5.96	63.4	2.88	198	1.07
100	18.17	32.83	8.8	25.47	8.0	5.94	63.1	3.00	201	1.11
180	18.28	33.03	8.7	25.64	8.0	5.67	60.2	3.15	190	1.07

Station S August 13, 1932 07:00 - 07:09 PST Barometer: 30.06 in. Air Temp: 52.7°F
 Wind: W Light Weather: Fog Vis. of Ekman Sampler: Tide: LLW

Depth Meters	Cl°/..	S°/..	Temp. °C	Sp. Gr. Situ	pH	O ₂ mg/l	O ₂ % Sat.	SiO ₃ mg/l	PO ₄ mg/m ³	NO ₃ mg/l
0	17.50	31.62	9.5	24.41	7.9	6.61	70.6	2.97	197	0.93
1	17.50	31.62	9.5	24.41	7.9	6.66	71.1	2.97	214	1.15
2	17.50	31.62	9.5	24.41	7.9	6.50	69.4	2.97	239	0.93
4	17.50	31.62	9.5	24.41	7.9	6.91	73.7	3.01	234	1.03
6	17.50	31.62	9.5	24.41	7.9	6.44	68.7	2.97	194	1.14
10	17.50	31.62	9.5	24.41	7.9	6.53	69.6	2.97	228	0.94
20	17.56	31.73	9.5	24.50	7.9	6.45	68.8	3.00	210	1.00
30	17.60	31.80	9.4	24.57	7.9	6.38	68.1	2.76	228	1.02
50	17.61	31.82	9.3	24.64	7.9	6.56	70.0	2.92	219	0.96
100	17.71	32.00	8.9	24.80	7.9	6.46	68.2	3.50	194	1.07
150	17.90	32.34	9.0	25.05	7.9	6.63	70.4	3.60	214	1.07