UNIVERSITY OF CALIFORNIA SCRIPPS INSTITUTION OF OCEANOGRAPHY

data report

PHYSICAL AND CHEMICAL DATA

CCOFI Cruise 6401
10 January - 4 March 1964

SIO Reference 65-7
5 April 1965

UNIVERSITY OF CALIFORNIA

SCRIPPS INSTITUTION OF OCEANOGRAPHY

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CCOFI Cruise 6401

10 January - 4 March 1964

Sponsored by

Marine Research Committee

SIO Reference 65-7
5 April 1965

Approved for distribution:

F. N. Spiess, Director

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1a. CCOFI Cruise 6401, station positions
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INTRODUCTION

The data presented in this report were collected by the RV Black Douglas of the Bureau of Commercial Fisheries and by the RV Alexander Agassiz of the Scripps Institution of Oceanography on Cruise 6401 of the California Cooperative Oceanic Fisheries Investigations program. The close grid stations near Point Arguello were occupied as part of an environmental study which was supported in part by AEC Contract AT (11-1)-34, Project 111. The first two figures in this cruise numbering system represent the year of the cruise; the last two figures, the month. The cruises preceding this one in the series are 6307 and 6309 (SIO Ref. 64-18) and 6310, 6311 and 6311 (El Golfo) (SIO Ref. 65-1).

The data are tabulated at observed depths; the interpolated and computed values are tabulated at standard depths and are accompanied by charts of horizontal distribution. The presentation of data in this report does not constitute publication; however, the data contained in this report have been carefully edited and no modifications should be necessary before final publication.

STANDARD PROCEDURES

Processing of the data was carried out using the method described by Klein.[1/] The 125-meter level was introduced into the integration to obtain greater accuracy in the determination of ΔD.

To indicate degree of accuracy, temperatures are recorded in tenths of a degree when obtained by bucket thermometer, thermograph, or bathythermograph, while temperatures from reversing thermometers are recorded in hundredths of a degree. The salinity values obtained by salinometer are recorded to three decimal places, provided they meet accepted standards. The values recorded "have a reproducibility of ±0.004‰ salinity at the 95 per cent probability level, and a probable accuracy of ±0.01‰ salinity or better at the same level of probability."[2/] The values are recorded to two decimal places when obtained by chlorinity titration, or by salinometer where only one determination per sample was obtained, or where there is doubt concerning the accuracy of a particular sample, or of all samples on

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1/ Klein, Hans T. A new technique for processing physical oceanographic data. MS.

2/ Quotation from Department of Oceanography, University of Washington, Tech. Rep. No. 66, UW Ref. 60-18, October 1960.

a station. The accuracy of all samples obtained by salinometer and recorded to two decimal places is believed to be equal to or better than those obtained by manual titration.

Extrapolated values and values interpolated between remote observations are entered within parentheses. A hyphen is used to indicate a missing observed value. The time is the time of messenger release. When more than one cast was made on a station, messenger times and wire angles are given in the order of increasing depth. A line is left blank between the observed data of each cast.

On stations where more than one cast is lowered, the various property curves may not agree perfectly. This discrepancy may be caused by changes in geographical position, real property changes with time, slight error in measurement, or a combination of these factors. Stations with overlapping casts have the following footnote: Overlapping casts; reconciliation of property curves when necessary.

FOOTNOTES

Laboratory personnel note any possible imperfections in the sealing of the bottles as follows:

Loose bottle cap:	The cap is definitely loose so that it could be moved with very little applied pressure. The salinity values obtained from these samples may be usable depending on time and/or conditions of storage.
Possible evaporation:	Either the cap was sealed with less than usual pressure, the bottle edge chipped, the rubber washer cracked, or the bale broke on opening, etc.

Use of the above values in interpolation depends upon consistency with other values of salinity and other properties, and these footnotes are supplemented with "falls on property curve" or "does not fall on property curve," depending upon whether the property curve was drawn through the value or not.

In addition to footnotes, two special notations are used without footnotes because their meaning is always the same.

To indicate a premature or a delayed reversal of the water-sampling device which results in certain depth and property errors, the following notation is used.

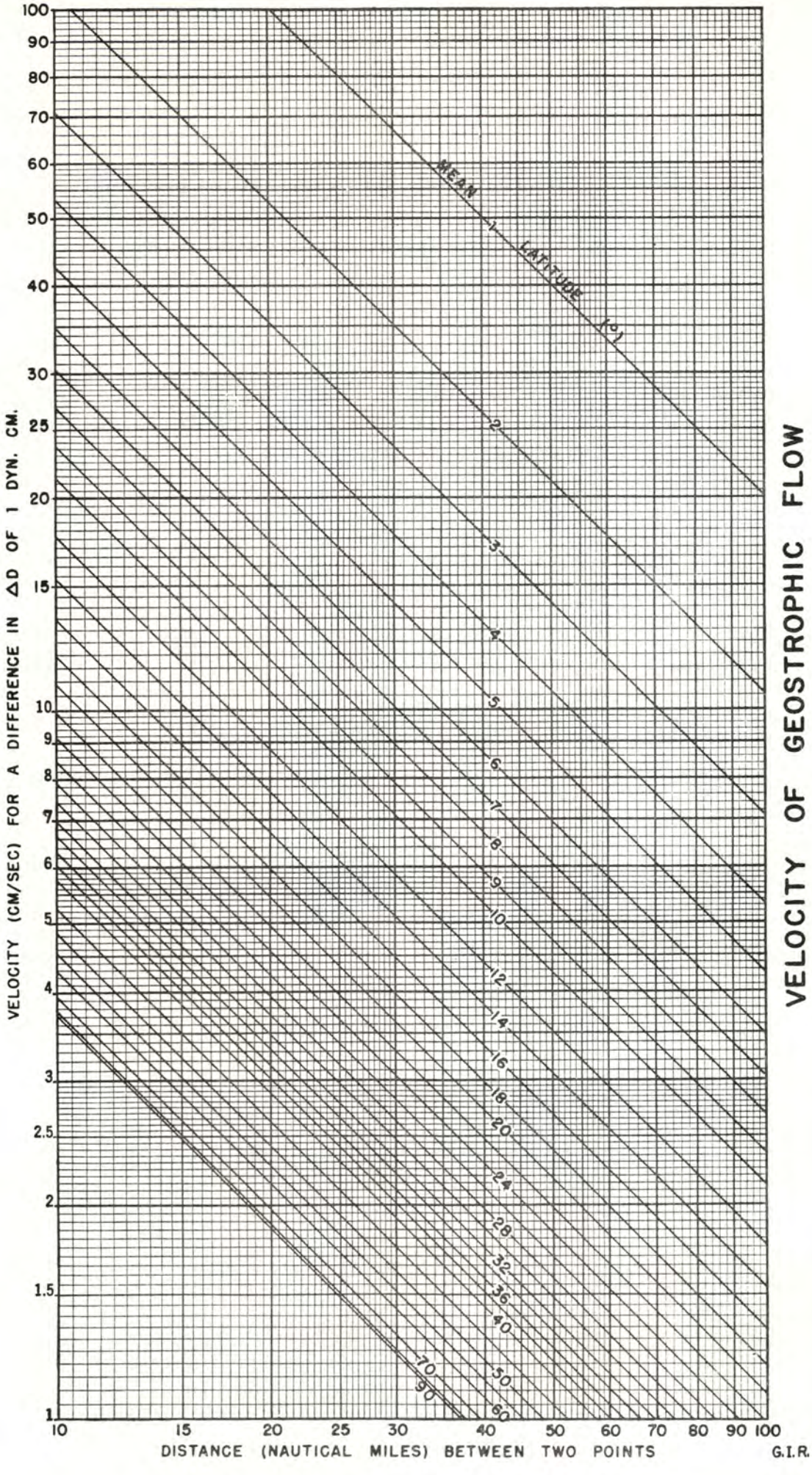
p: pretrip or posttrip.

Values which are not drawn through because they seem to be in error without apparent reason are indicated by the following notation.

u: uncertain value (value may be correct; occasionally it can influence the drawing of the property curve).

FORMAT

These data are typed in the format of the University of California Press publication, Oceanic Observations of the Pacific.


VELOCITY OF GEOSTROPHIC FLOW
VELOCITY (CM/SEC) FOR A DIFFERENCE IN ΔD OF 1 DYN. CM.
DISTANCE (NAUTICAL MILES) BETWEEN TWO POINTS
MEAN LATITUDE (°)
100
90
80
70
60
50
40
30
25
20
15
10
9
8
7
6
5
4
3
2.5
2
1.5
1
10
15
20
25
30
40
50
60
70
80
90
100
1
2
3
4
5
6
7
8
9
10
12
14
16
18
20
24
28
32
36
40
50
60
70
90
G.I.R.

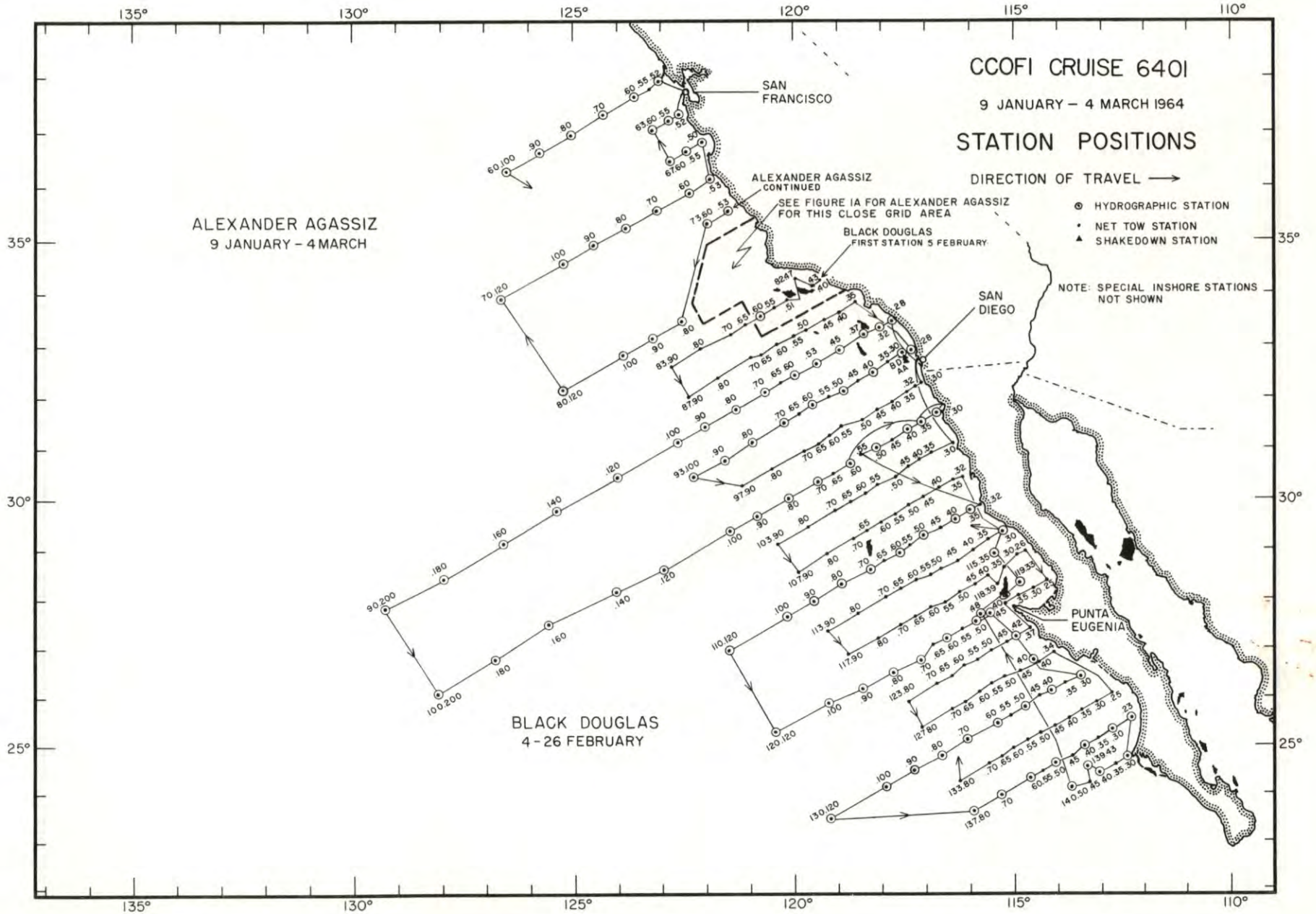

CCOFI CRUISE 6401
9 JANUARY – 4 MARCH 1964
STATION POSITIONS
DIRECTION OF TRAVEL →
HYDROGRAPHIC STATION
NET TOW STATION
SHAKEDOWN STATION
NOTE: SPECIAL INSHORE STATIONS NOT SHOWN
ALEXANDER AGASSIZ
9 JANUARY – 4 MARCH
ALEXANDER AGASSIZ CONTINUED
SEE FIGURE IA FOR ALEXANDER AGASSIZ FOR THIS CLOSE GRID AREA
BLACK DOUGLAS
FIRST STATION 5 FEBRUARY
BLACK DOUGLAS
4 – 26 FEBRUARY
SAN FRANCISCO
SAN DIEGO
PUNTA EUGENIA
135°
130°
125°
120°
115°
110°
35°
30°
25°

FIGURE 1

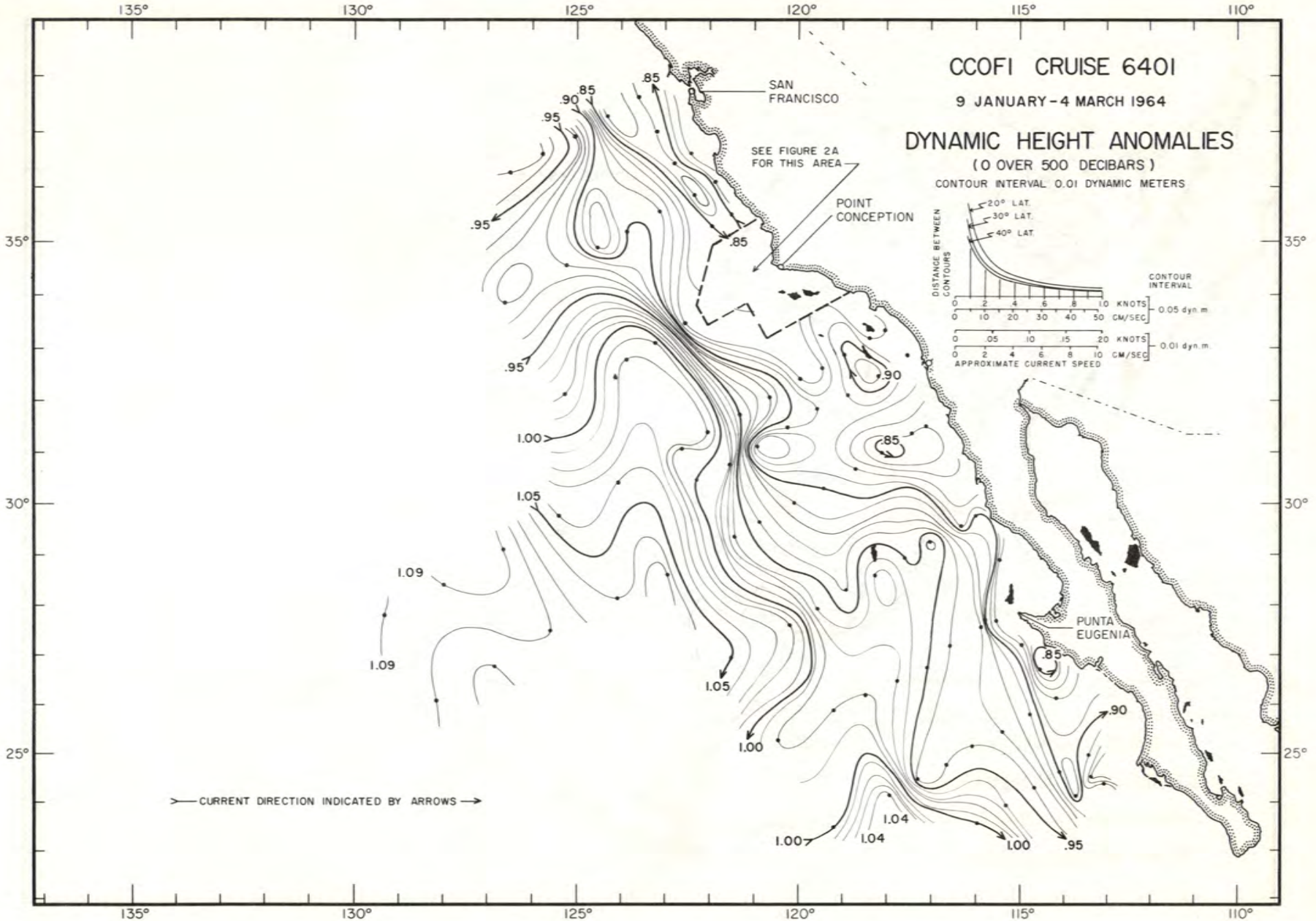

CCOFI CRUISE 6401
9 JANUARY - 4 MARCH 1964
DYNAMIC HEIGHT ANOMALIES
(0 OVER 500 DECIBARS)
CONTOUR INTERVAL 0.01 DYNAMIC METERS
SAN FRANCISCO
SEE FIGURE 2A FOR THIS AREA
POINT CONCEPTION
PUNTA EUGENIA
20° LAT.
30° LAT.
40° LAT.
DISTANCE BETWEEN CONTOURS
CONTOUR INTERVAL
KNOTS
CM/SEC
0.05 dyn. m.
0.01 dyn. m.
APPROXIMATE CURRENT SPEED
CURRENT DIRECTION INDICATED BY ARROWS
135°
130°
125°
120°
115°
110°
35°
30°
25°
.85
.90
.95
1.00
1.05
1.09
1.04

FIGURE 2

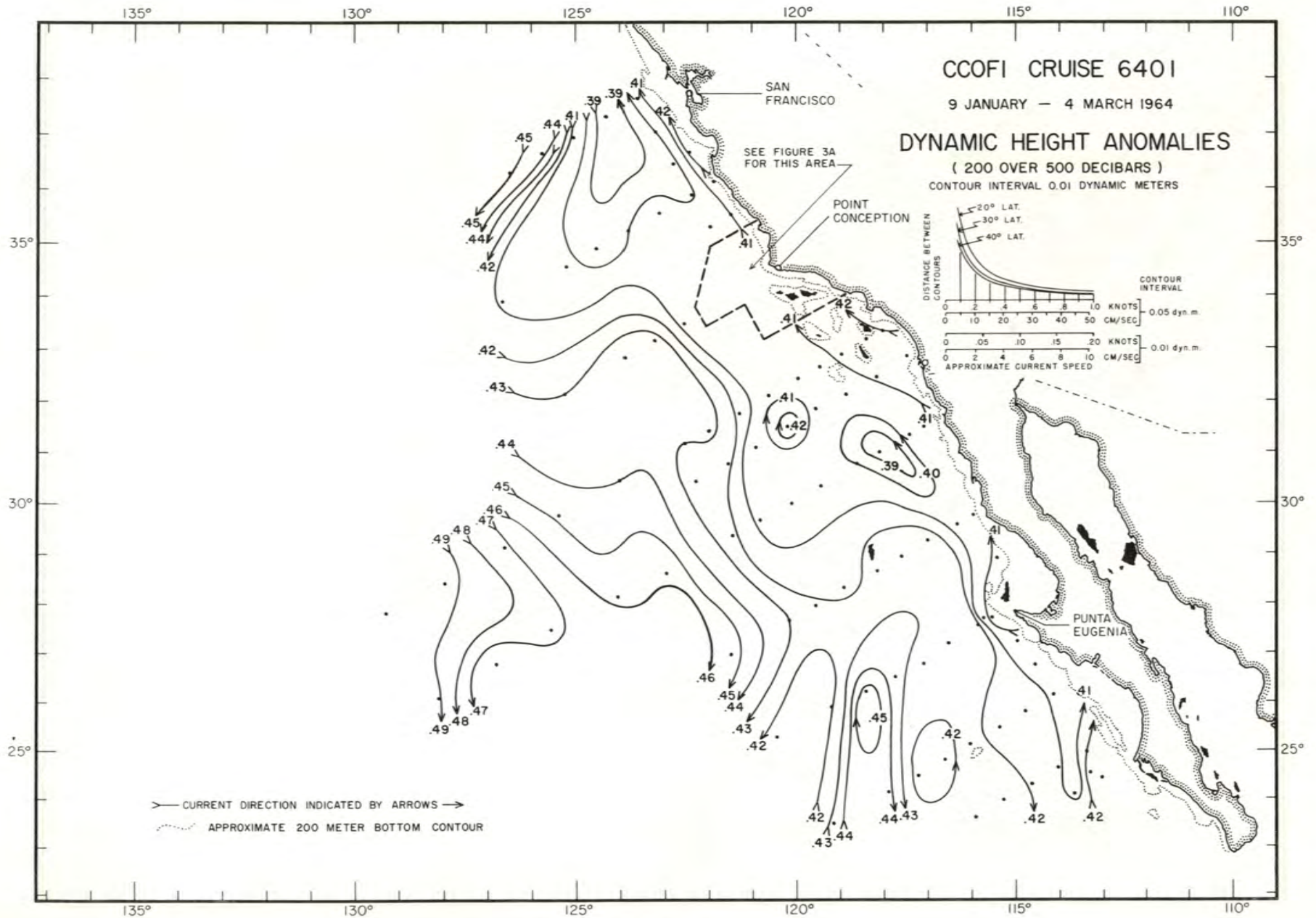

CCOFI CRUISE 6401
9 JANUARY — 4 MARCH 1964
DYNAMIC HEIGHT ANOMALIES
(200 OVER 500 DECIBARS)
CONTOUR INTERVAL 0.01 DYNAMIC METERS
SAN FRANCISCO
SEE FIGURE 3A FOR THIS AREA
POINT CONCEPTION
PUNTA EUGENIA
20° LAT.
30° LAT.
40° LAT.
DISTANCE BETWEEN CONTOURS
CONTOUR INTERVAL
KNOTS
CM/SEC
0.05 dyn. m.
0.01 dyn. m.
APPROXIMATE CURRENT SPEED
CURRENT DIRECTION INDICATED BY ARROWS
APPROXIMATE 200 METER BOTTOM CONTOUR
135°
130°
125°
120°
115°
110°
35°
30°
25°

FIGURE 3

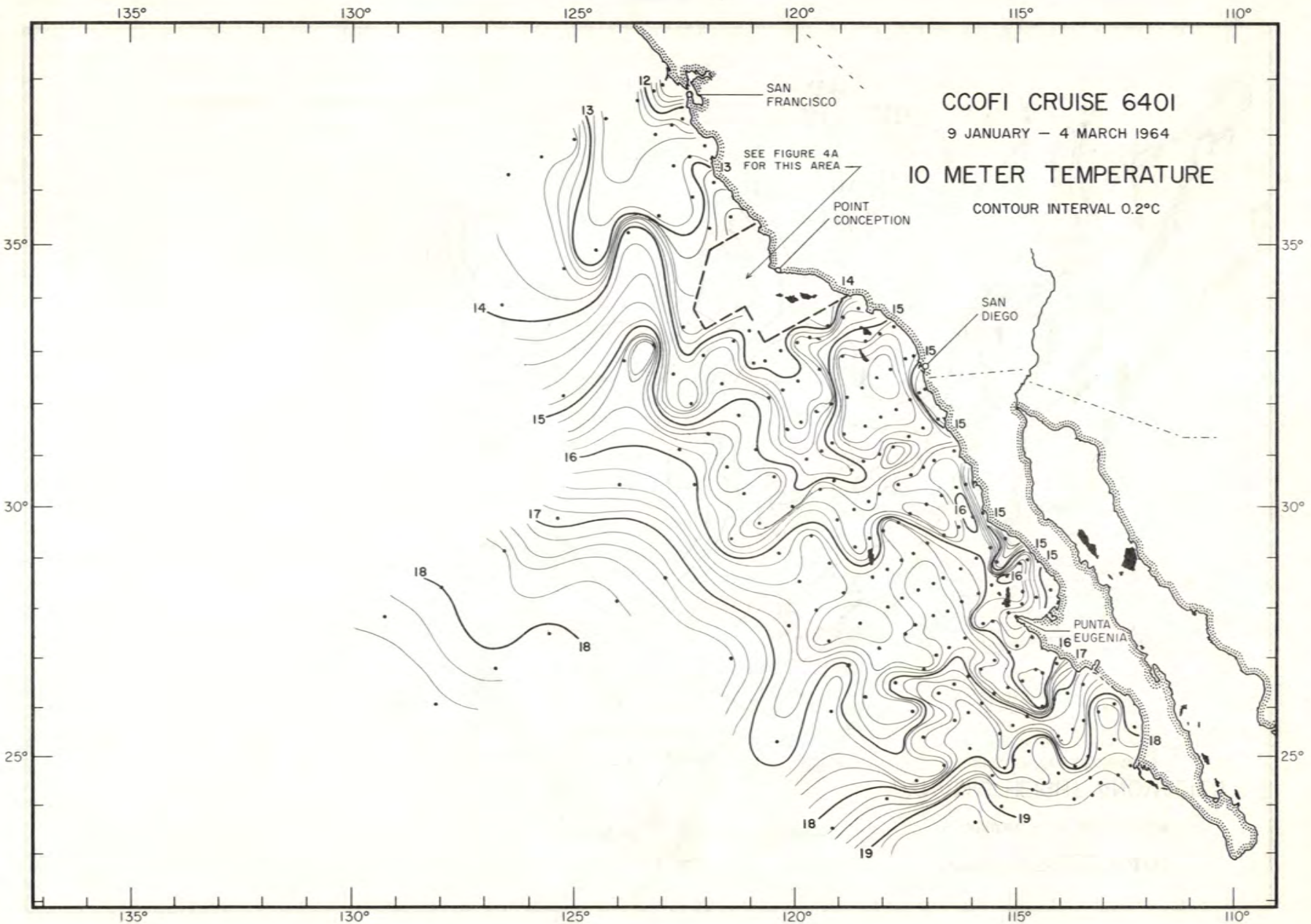

CCOFI CRUISE 6401
9 JANUARY – 4 MARCH 1964
10 METER TEMPERATURE
CONTOUR INTERVAL 0.2°C
SAN FRANCISCO
SEE FIGURE 4A FOR THIS AREA
POINT CONCEPTION
SAN DIEGO
PUNTA EUGENIA
135°
130°
125°
120°
115°
110°
35°
30°
25°

FIGURE 4

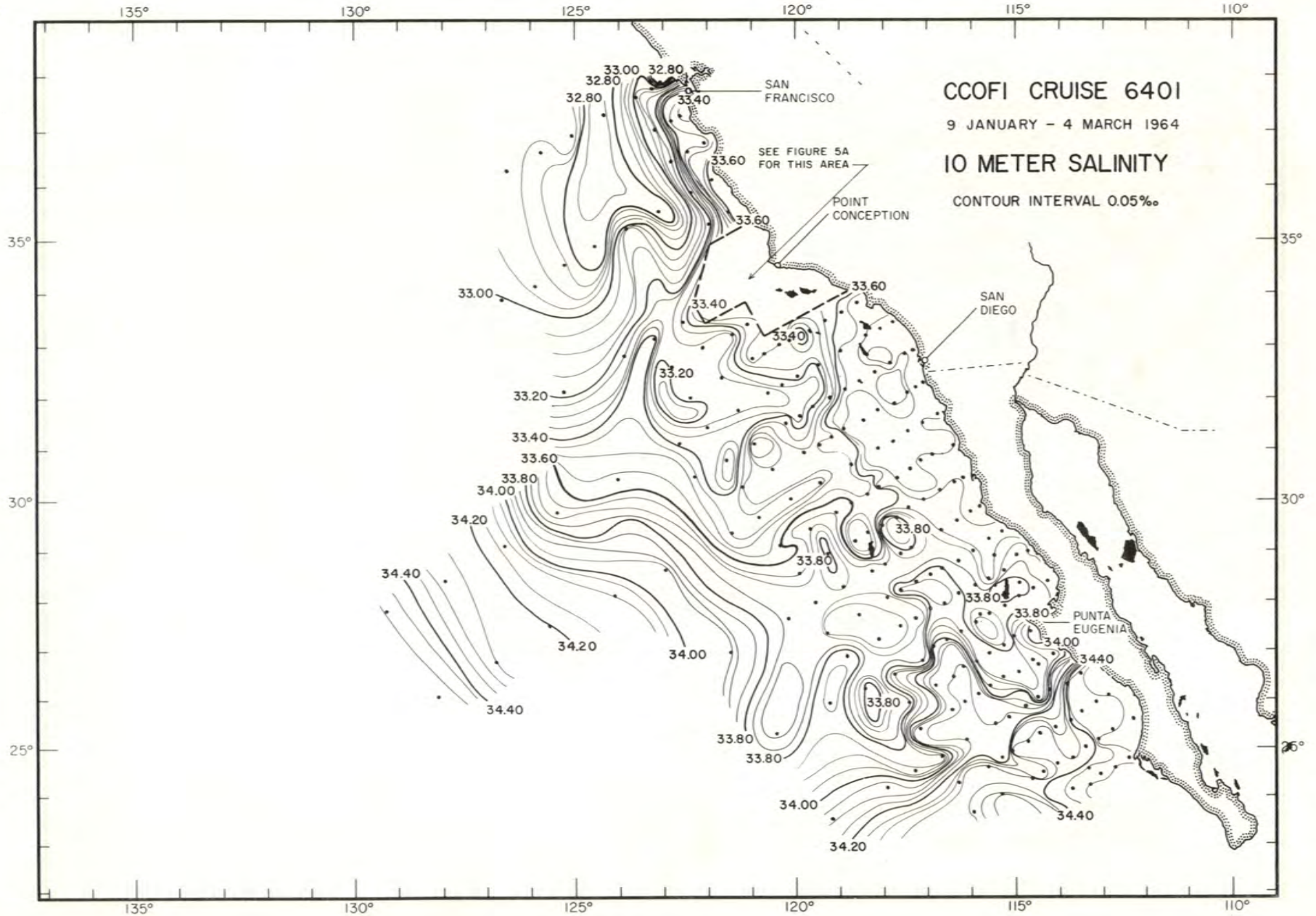

CCOFI CRUISE 6401
9 JANUARY - 4 MARCH 1964
10 METER SALINITY
CONTOUR INTERVAL 0.05‰
SAN FRANCISCO
SEE FIGURE 5A FOR THIS AREA
POINT CONCEPTION
SAN DIEGO
PUNTA EUGENIA
135°
130°
125°
120°
115°
110°
35°
30°
25°
33.00
32.80
32.80
32.80
33.40
33.60
33.60
33.60
33.00
33.40
33.40
33.20
33.20
33.40
33.60
33.80
34.00
34.20
34.40
34.20
34.00
34.40
33.80
33.80
33.80
33.80
33.80
34.00
34.40
33.80
33.80
34.00
34.20
34.40

FIGURE 5

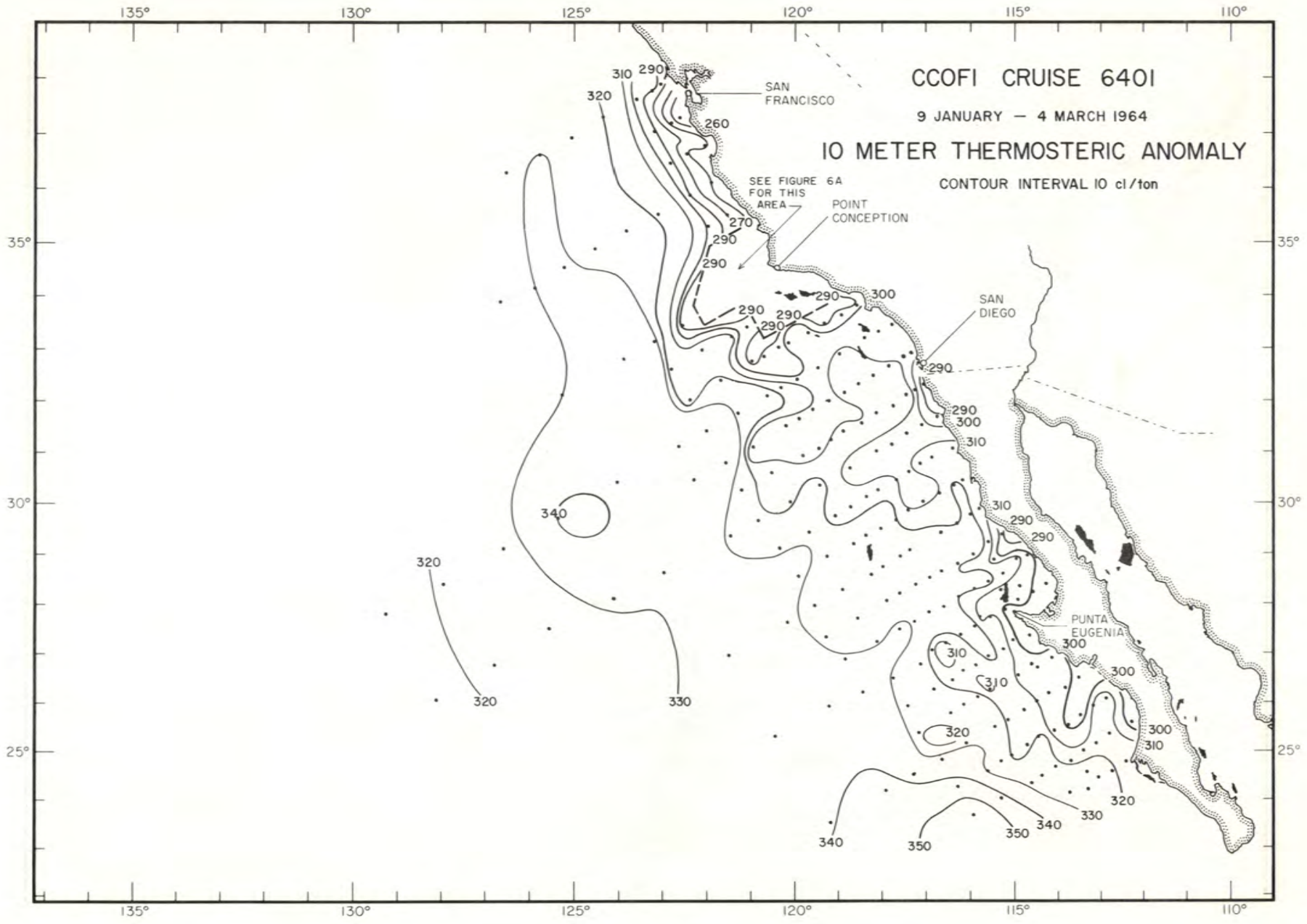

CCOFI CRUISE 6401
9 JANUARY — 4 MARCH 1964
10 METER THERMOSTERIC ANOMALY
CONTOUR INTERVAL 10 cl/ton
SAN FRANCISCO
SEE FIGURE 6A FOR THIS AREA
POINT CONCEPTION
SAN DIEGO
PUNTA EUGENIA
135°
130°
125°
120°
115°
110°
35°
30°
25°

FIGURE 6

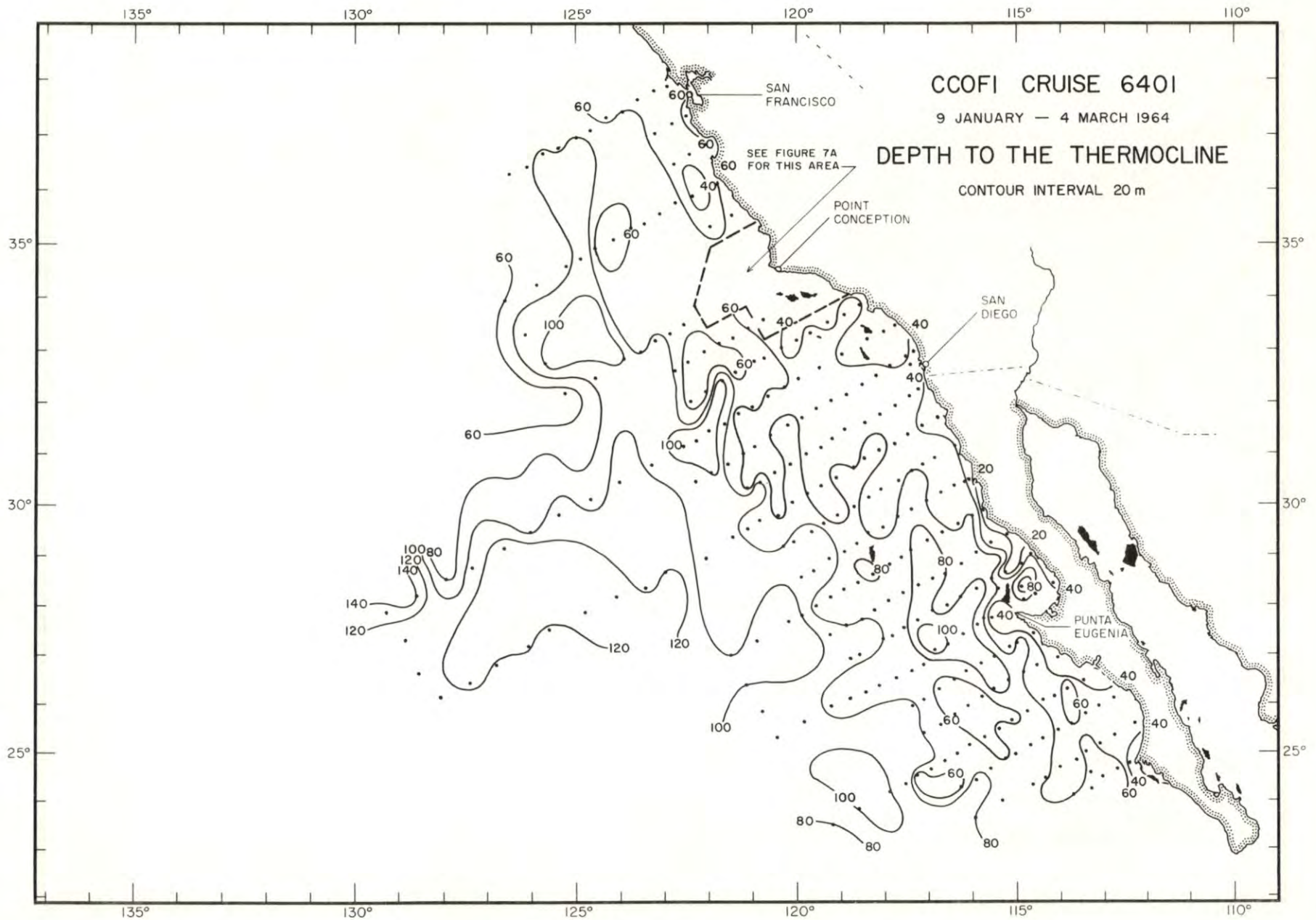

CCOFI CRUISE 6401
9 JANUARY — 4 MARCH 1964
DEPTH TO THE THERMOCLINE
CONTOUR INTERVAL 20 m
SAN FRANCISCO
SEE FIGURE 7A FOR THIS AREA
POINT CONCEPTION
SAN DIEGO
PUNTA EUGENIA
135°
130°
125°
120°
115°
110°
35°
30°
25°

FIGURE 7

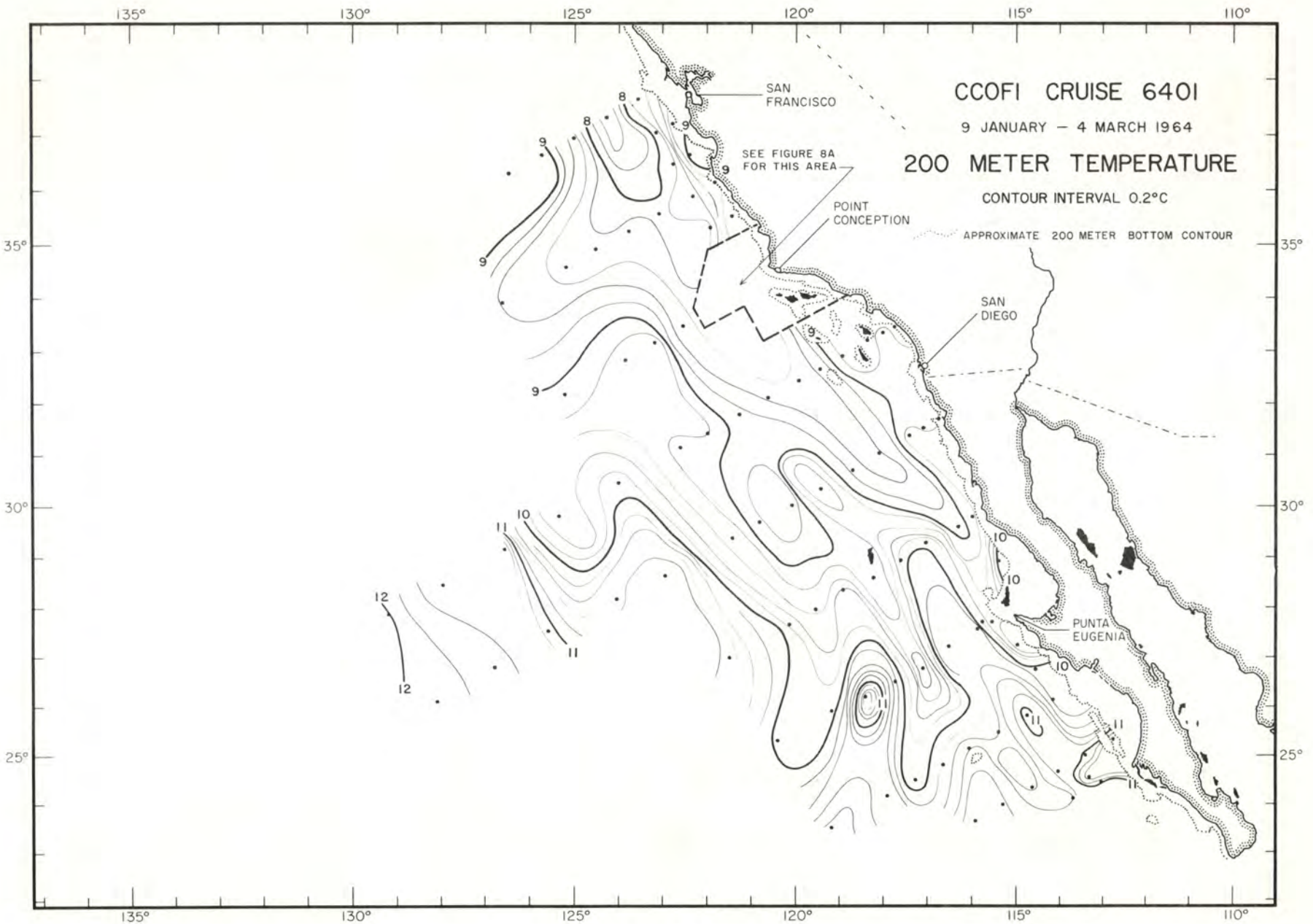

CCOFI CRUISE 6401
9 JANUARY – 4 MARCH 1964
200 METER TEMPERATURE
CONTOUR INTERVAL 0.2°C
APPROXIMATE 200 METER BOTTOM CONTOUR
SAN FRANCISCO
SEE FIGURE 8A FOR THIS AREA
POINT CONCEPTION
SAN DIEGO
PUNTA EUGENIA
135°
130°
125°
120°
115°
110°
35°
30°
25°

FIGURE 8

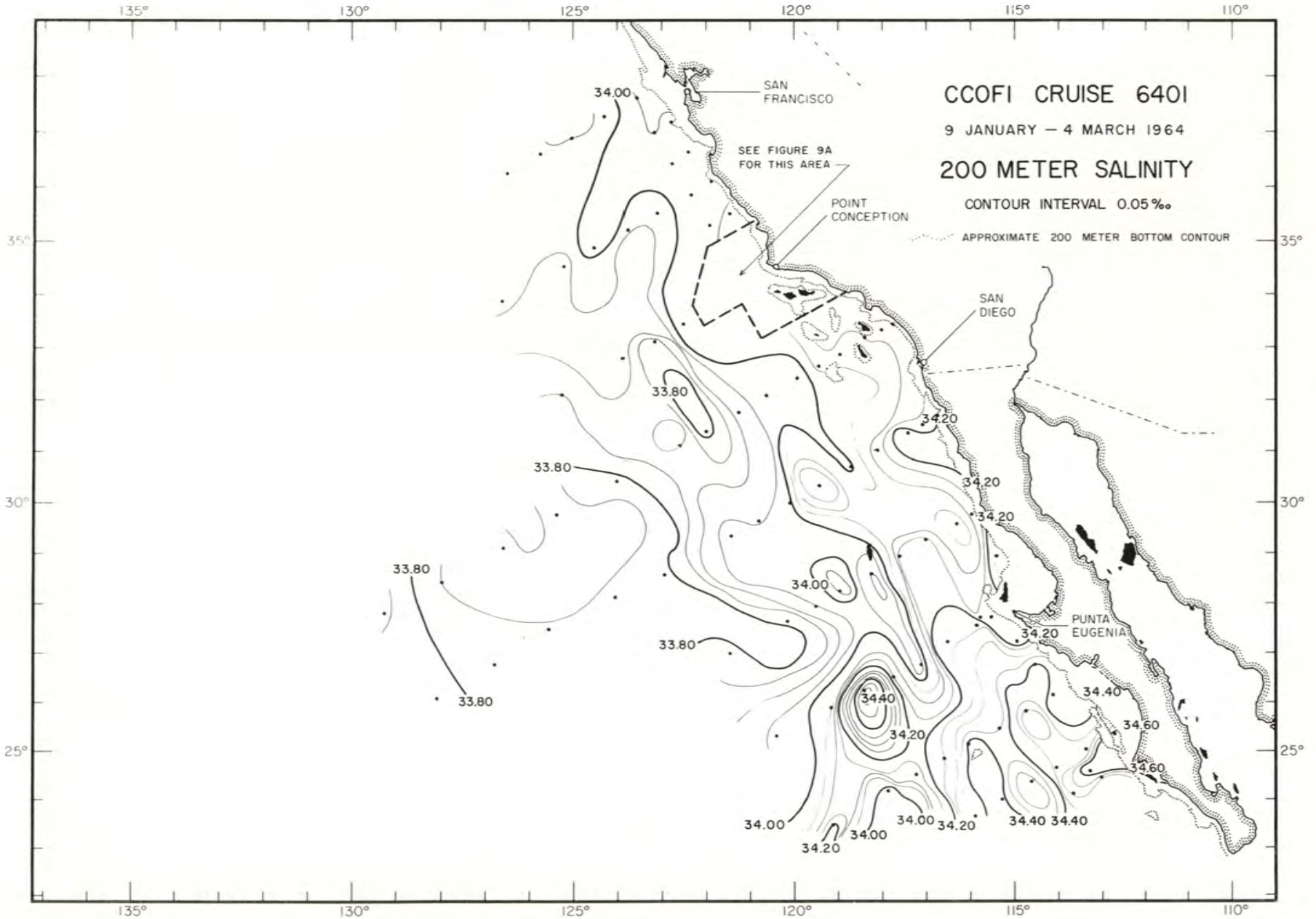

CCOFI CRUISE 6401
9 JANUARY — 4 MARCH 1964
200 METER SALINITY
CONTOUR INTERVAL 0.05‰
APPROXIMATE 200 METER BOTTOM CONTOUR
SAN FRANCISCO
SEE FIGURE 9A FOR THIS AREA
POINT CONCEPTION
SAN DIEGO
PUNTA EUGENIA
135°
130°
125°
120°
115°
110°
35°
30°
25°
34.00
33.80
34.20
34.40
34.60

FIGURE 9

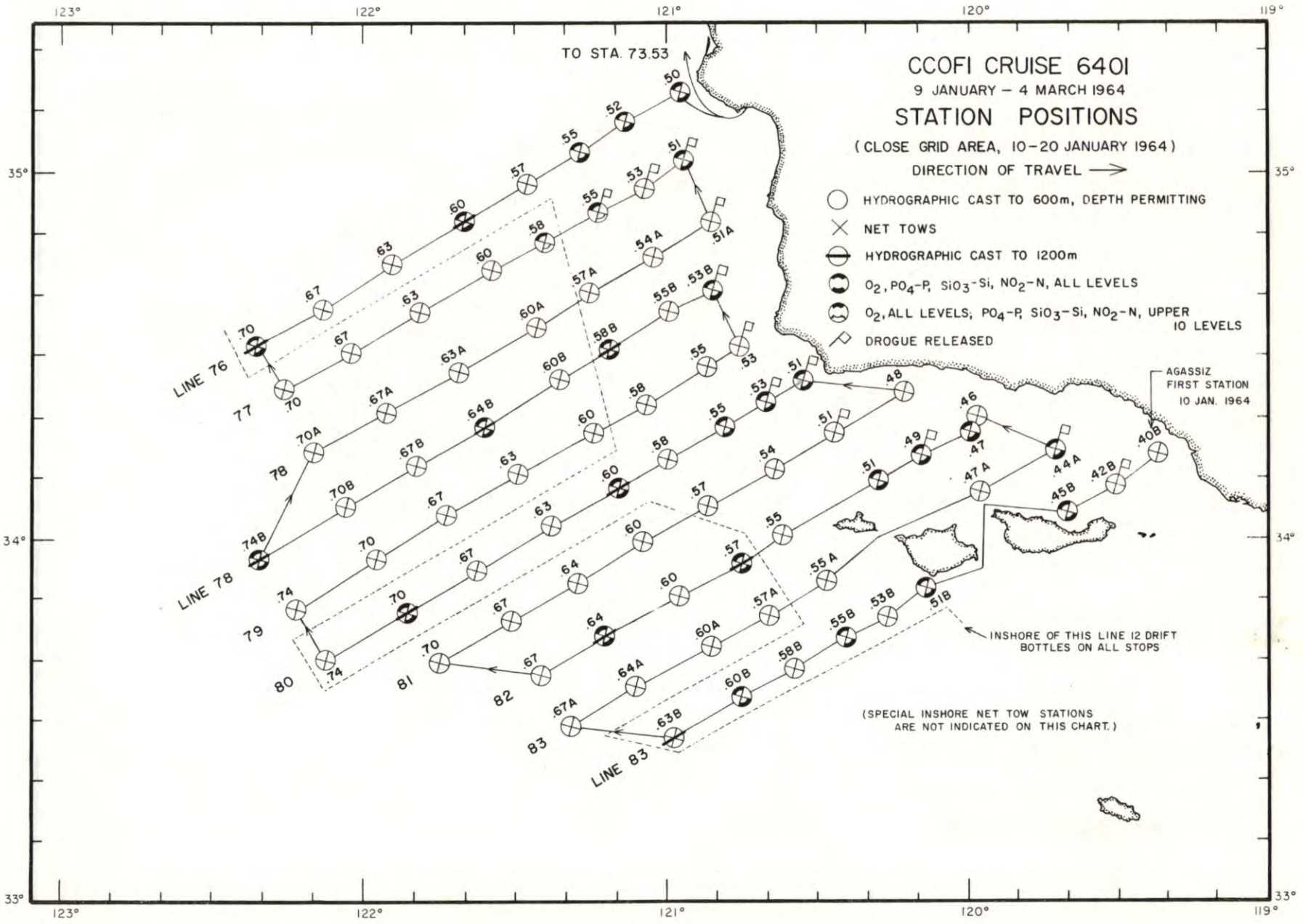

CCOFI CRUISE 6401
9 JANUARY – 4 MARCH 1964
STATION POSITIONS
(CLOSE GRID AREA, 10–20 JANUARY 1964)
DIRECTION OF TRAVEL
HYDROGRAPHIC CAST TO 600m, DEPTH PERMITTING
NET TOWS
HYDROGRAPHIC CAST TO 1200m
O_2, PO_4-P, SiO_3-Si, NO_2-N, ALL LEVELS
O_2, ALL LEVELS; PO_4-P, SiO_3-Si, NO_2-N, UPPER 10 LEVELS
DROGUE RELEASED
TO STA. 73.53
AGASSIZ FIRST STATION 10 JAN. 1964
INSHORE OF THIS LINE 12 DRIFT BOTTLES ON ALL STOPS
(SPECIAL INSHORE NET TOW STATIONS ARE NOT INDICATED ON THIS CHART.)
LINE 76
LINE 78
LINE 83
123°
122°
121°
120°
119°
35°
34°
33°

FIGURE 1A

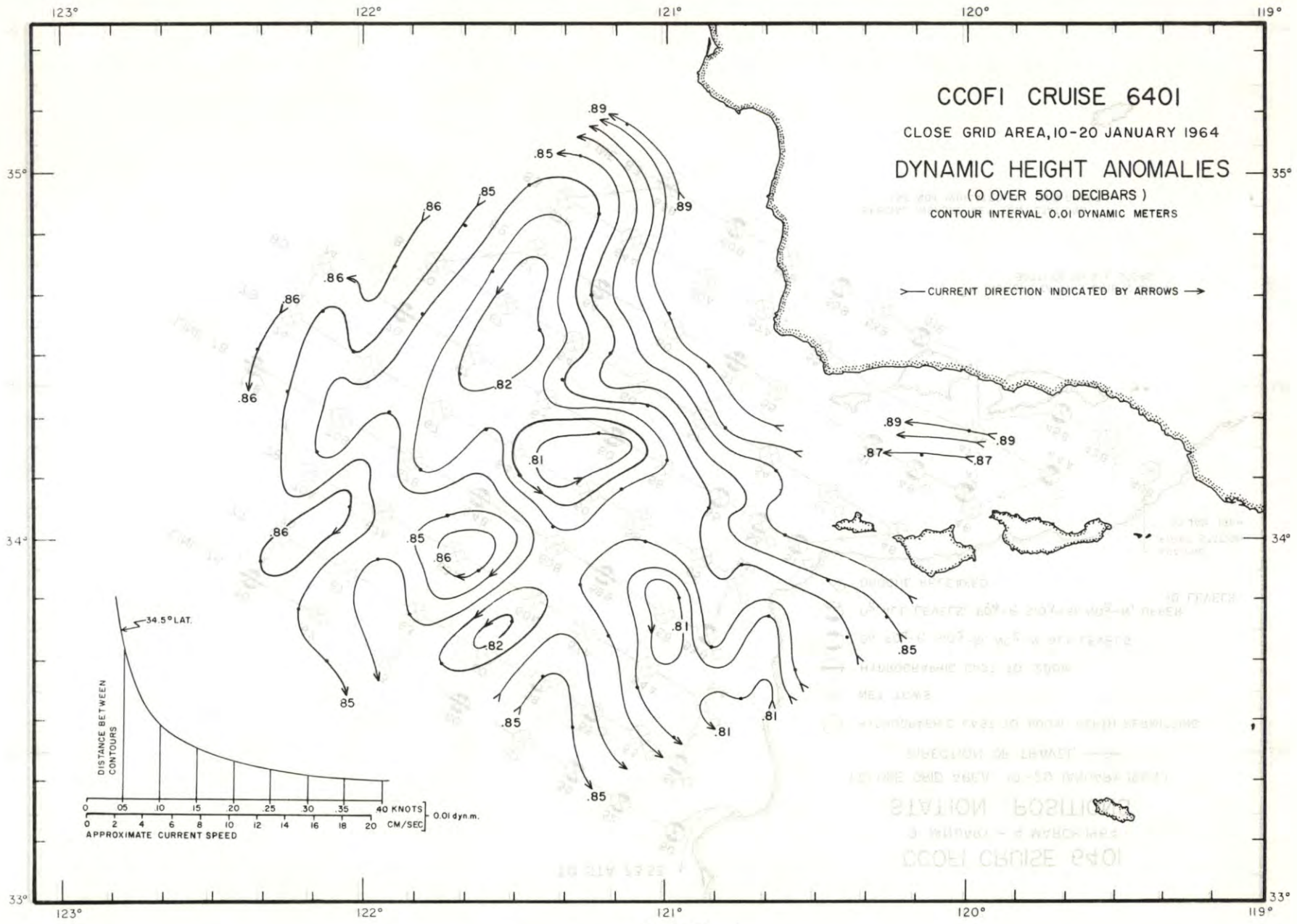

CCOFI CRUISE 6401
CLOSE GRID AREA, 10-20 JANUARY 1964
DYNAMIC HEIGHT ANOMALIES
(0 OVER 500 DECIBARS)
CONTOUR INTERVAL 0.01 DYNAMIC METERS
CURRENT DIRECTION INDICATED BY ARROWS
123°
122°
121°
120°
119°
35°
34°
33°
.89
.85
.86
.82
.81
.87
34.5° LAT.
DISTANCE BETWEEN CONTOURS
0 .05 .10 .15 .20 .25 .30 .35 40 KNOTS
0 2 4 6 8 10 12 14 16 18 20 CM/SEC
0.01 dyn.m.
APPROXIMATE CURRENT SPEED

FIGURE 2A

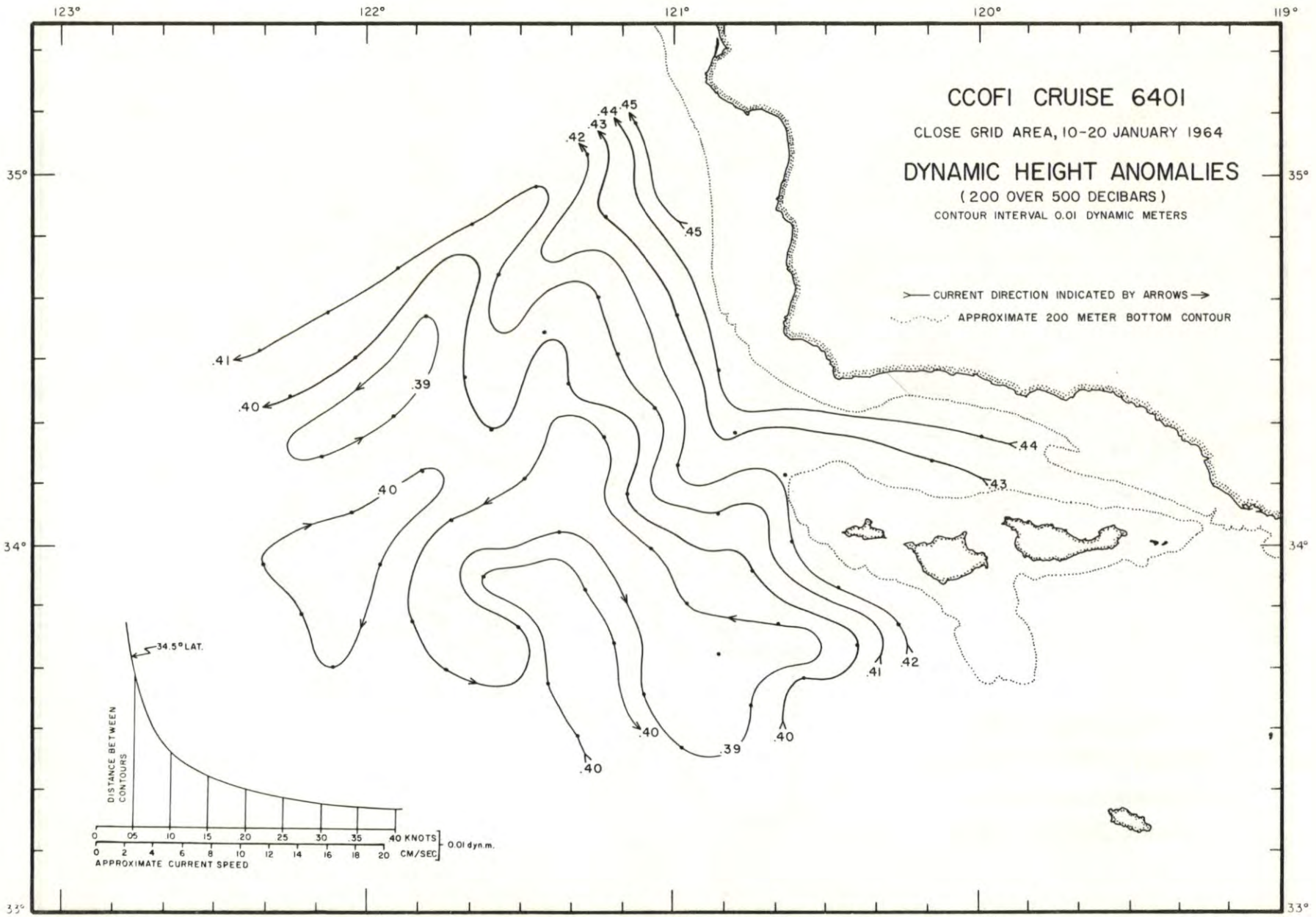

CCOFI CRUISE 6401
CLOSE GRID AREA, 10-20 JANUARY 1964
DYNAMIC HEIGHT ANOMALIES
(200 OVER 500 DECIBARS)
CONTOUR INTERVAL 0.01 DYNAMIC METERS
CURRENT DIRECTION INDICATED BY ARROWS
APPROXIMATE 200 METER BOTTOM CONTOUR
123°
122°
121°
120°
119°
35°
34°
33°
.45
.44
.43
.42
.41
.40
.39
34.5° LAT.
DISTANCE BETWEEN CONTOURS
0 05 10 15 20 25 30 35 40 KNOTS
0 2 4 6 8 10 12 14 16 18 20 CM/SEC
0.01 dyn.m.
APPROXIMATE CURRENT SPEED

FIGURE 3A

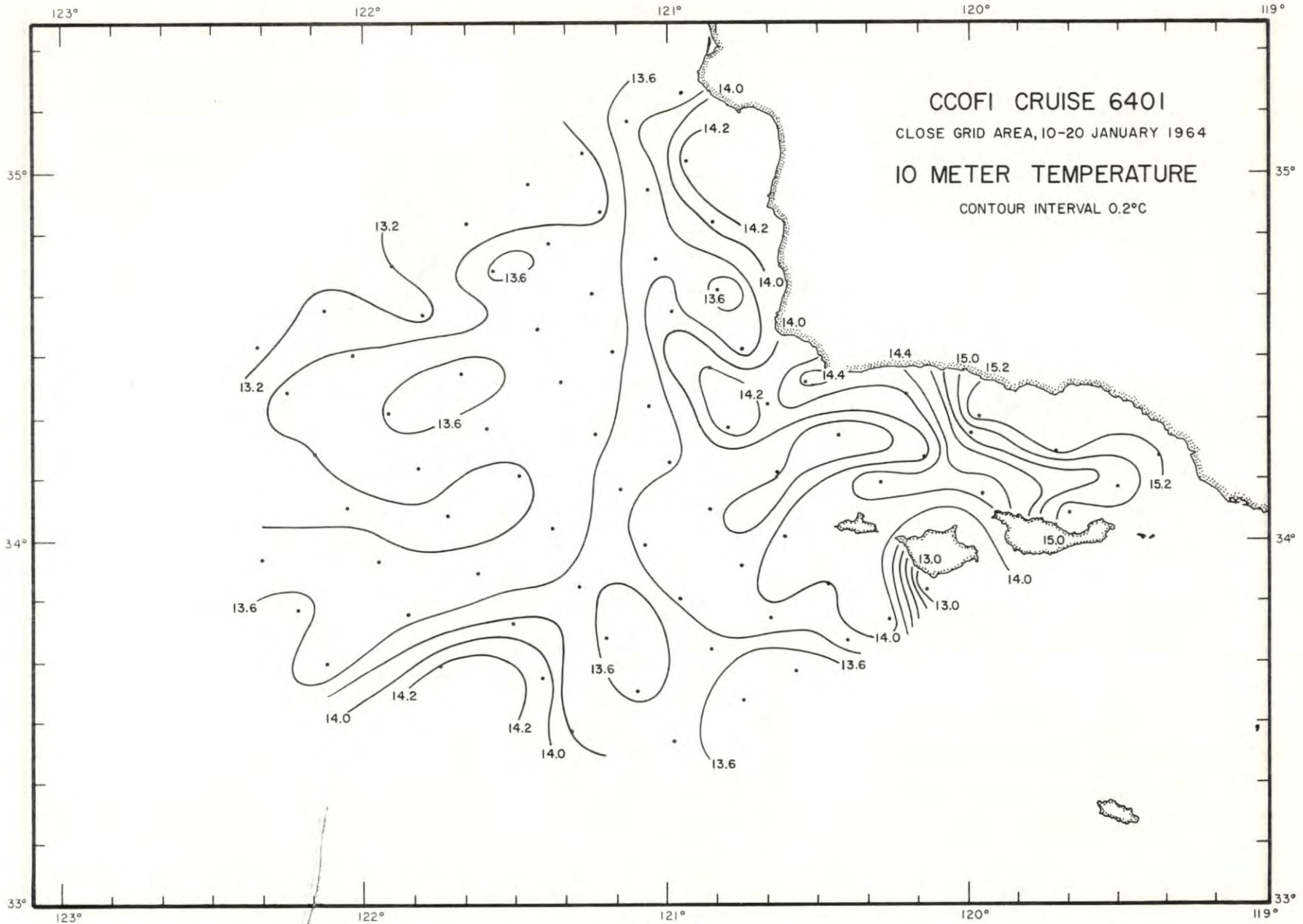
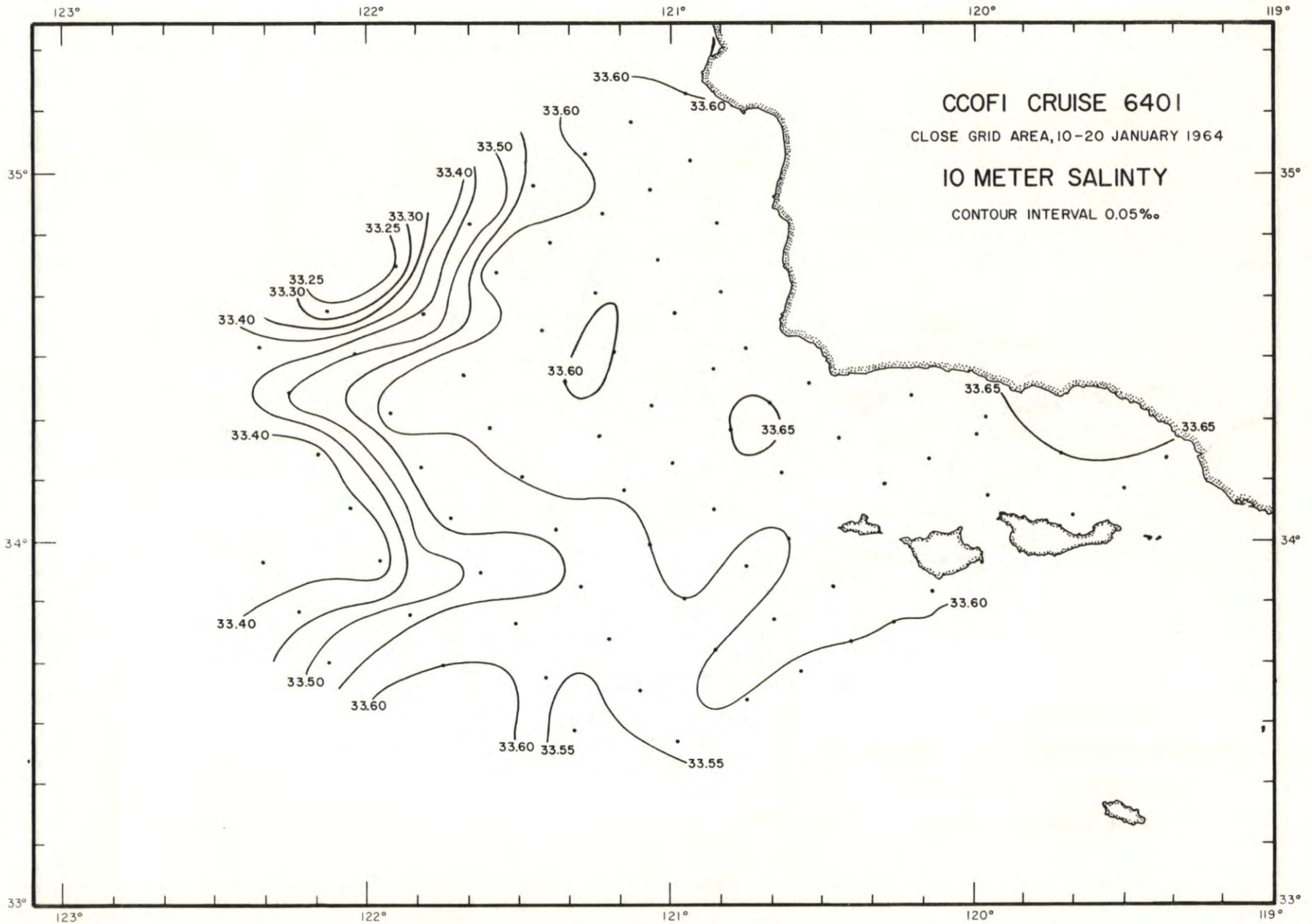

CCOFI CRUISE 6401
CLOSE GRID AREA, 10-20 JANUARY 1964
10 METER TEMPERATURE
CONTOUR INTERVAL 0.2°C
123°
122°
121°
120°
119°
35°
34°
33°
13.6
14.0
14.2
13.2
13.6
14.0
13.6
14.0
14.4
15.0
15.2
13.2
14.4
14.2
13.6
15.2
15.0
13.0
14.0
13.0
13.6
14.0
13.6
14.2
14.0
14.2
14.0
13.6

FIGURE 4A


CCOFI CRUISE 6401
CLOSE GRID AREA, 10-20 JANUARY 1964
10 METER SALINTY
CONTOUR INTERVAL 0.05‰
123°
122°
121°
120°
119°
35°
34°
33°
33.60
33.60
33.60
33.50
33.40
33.30
33.25
33.25
33.30
33.40
33.60
33.65
33.65
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33.60
33.40
33.50
33.60
33.60
33.55
33.55

FIGURE 5A

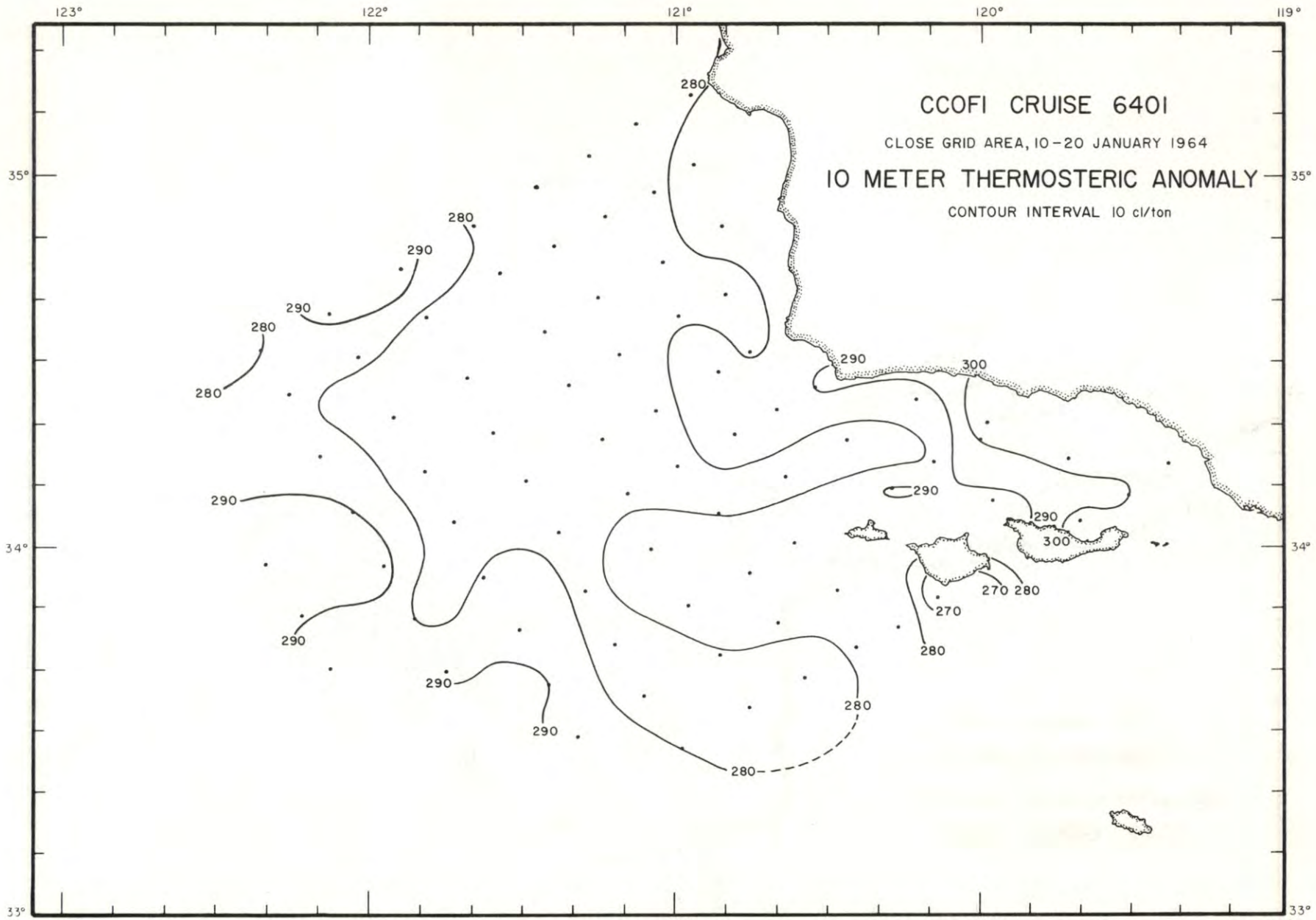
CCOFI CRUISE 6401
CLOSE GRID AREA, 10-20 JANUARY 1964
10 METER THERMOSTERIC ANOMALY
CONTOUR INTERVAL 10 cl/ton
123°
122°
121°
120°
119°
35°
34°
33°
280
290
300
270

FIGURE 6A

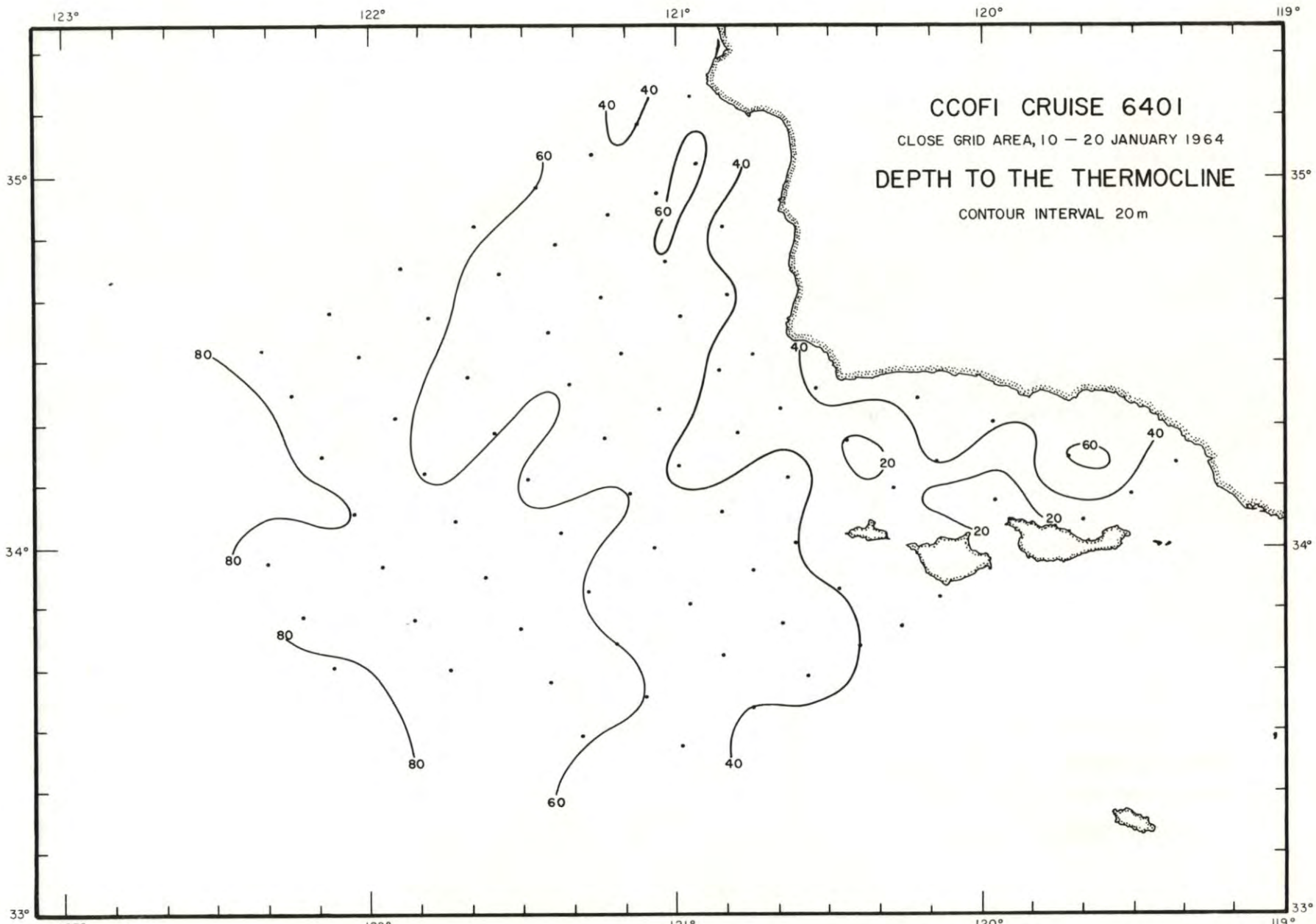
CCOFI CRUISE 6401
CLOSE GRID AREA, 10 — 20 JANUARY 1964
DEPTH TO THE THERMOCLINE
CONTOUR INTERVAL 20m
123°
122°
121°
120°
119°
35°
34°
33°
40
60
80
20

FIGURE 7A

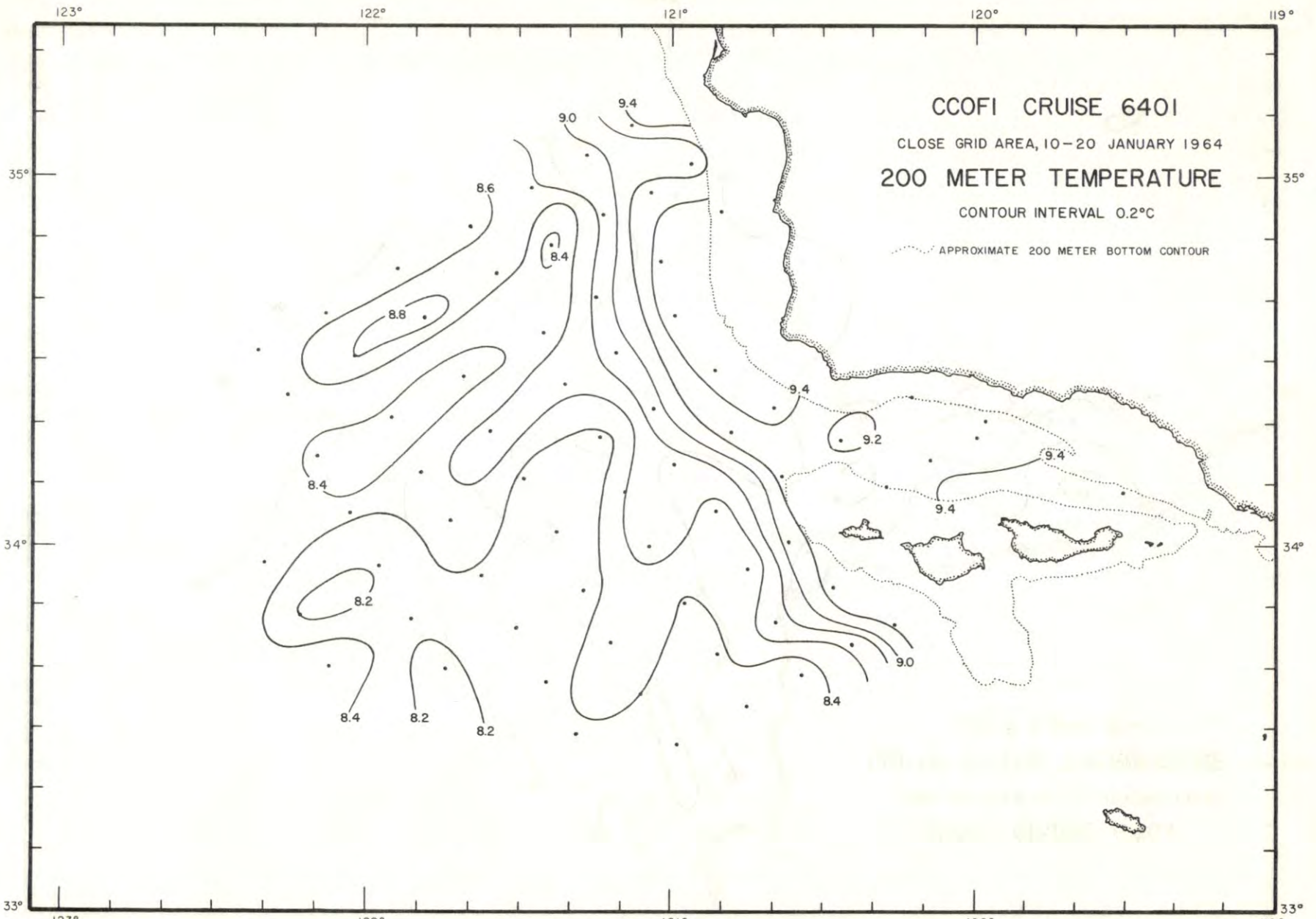
CCOFI CRUISE 6401
CLOSE GRID AREA, 10-20 JANUARY 1964
200 METER TEMPERATURE
CONTOUR INTERVAL 0.2°C
APPROXIMATE 200 METER BOTTOM CONTOUR
123°
122°
121°
120°
119°
35°
34°
33°
9.4
9.0
8.6
8.4
8.8
9.4
9.2
9.4
9.4
8.4
8.2
9.0
8.4
8.4
8.2
8.2

FIGURE 8A

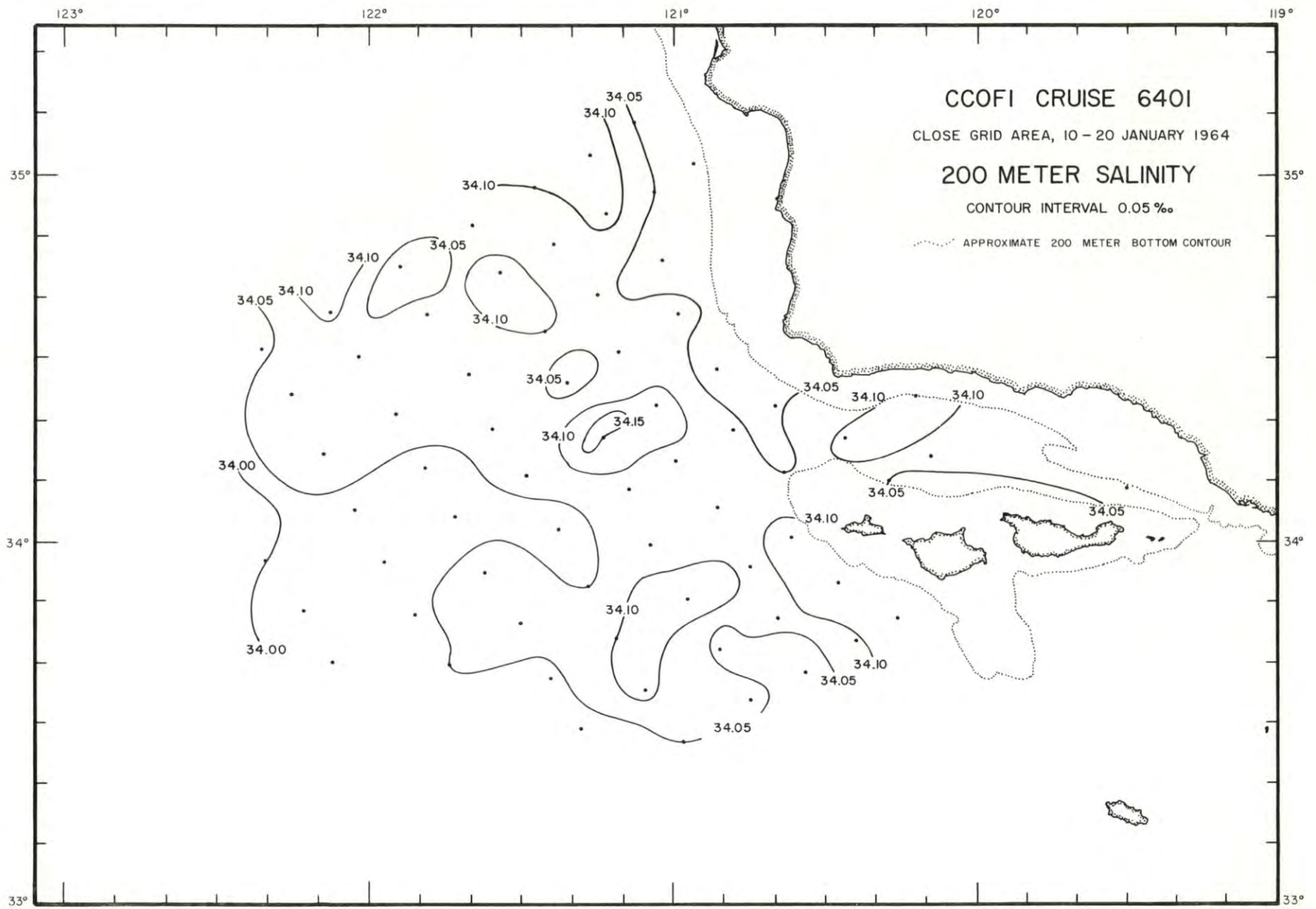
CCOFI CRUISE 6401
CLOSE GRID AREA, 10 – 20 JANUARY 1964
200 METER SALINITY
CONTOUR INTERVAL 0.05 ‰
APPROXIMATE 200 METER BOTTOM CONTOUR
123°
122°
121°
120°
119°
35°
34°
33°
34.05
34.10
34.15
34.00

FIGURE 9A

PERSONNEL

SHIPS' CAPTAINS

Forster, Charles W., RV Black Douglas
Miller, Frank, RV Alexander Agassiz

PERSONNEL PARTICIPATING IN THE COLLECTION OF DATA

RV Alexander Agassiz

Lawson, Jan B., Senior Marine Technician
***Bottom, Kenneth S., Senior Marine Technician
#Brinton, Dr. Edward, Assistant Research Biologist
***Bryan, Walter R., Senior Marine Technician
Burns, William A., Marine Technician
**Cornelius, Robert C. IV, Marine Technician
***Crowe, Fred J., Laboratory Assistant
**Ernst, Richard K., Marine Technician
*Hart, Joe T., Senior Marine Technician
**Hester, Arthur W., Senior Marine Technician
###Kilmer, Dr. Frank H., Senior Museum Scientist, Department of Geology, University of California, Riverside
****Lynn, Ronald J., Oceanographer, Bureau of Commercial Fisheries
#Matsui, Tetsuo, Research Biologist
***Mead, Richard V., Principal Marine Technician
##Muus, David A., Marine Technician
***Netzley, Ronald L., Marine Technician
**Pine, James S., Senior Marine Technician
Rosendahl, Donald V., Electronics Technician
Wagner, Vaughn M., Fishery Aid, Bureau of Commercial Fisheries
*Wirth, David, Marine Technician
*Wyllie, John G., Laboratory Technician
**Young, Anthony W., Marine Technician

---

*San Diego to San Francisco only.
**San Diego to San Francisco and return to San Diego.
***San Diego to San Diego via Ensenada and Cedros.
****San Diego to Ensenada.
#San Francisco to San Diego. San Diego to Ensenada.
##San Diego to San Francisco to San Diego. Ensenada to San Diego.
###San Diego to Ensenada. Cedros to San Diego.

RV Black Douglas

Paloma, Pedro A., Fishery Aid, Bureau of Commercial Fisheries
*Brennen, Robert E., Senior Marine Technician
Ferreira, Simon M., Marine Technician

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*Lines 83 through 97 only.

SIO
CCOFI
6401

OBSERVED							COMPUTED	INTERPOLATED				COMPUTED		
Z	T	S	O_2	PO_4-P	SiO_3-Si	NO_2-N	δ_T	Z	T	S	O_2	σ_t	δ_T	ΔD
m	°C	‰	ml/L	µg at/L	µg at/L	µg at/L	cl/ton	m	°C	‰	ml/L	g/L	cl/ton	dyn m
ALEXANDER AGASSIZ; February 1, 1964; 0404 GCT; 37°53.5'N, 123°02'W; sounding, 42 fm; wind, 340°, force 4; weather, fog; sea, missing; wire angle, 10°.														60.52
0	11.45	32.616	6.76	0.98	18	0.33	310	0	11.45	32.62	6.76	24.87	310	0.00
10	11.32	32.762	6.67	0.98	17	0.35	297	10	11.32	32.76	6.67	25.00	297	0.03
20	11.30	32.924	6.39	0.98	15	0.35	284	20	11.30	32.92	6.39	25.12	285	0.06
29	11.53a)	33.156	5.97	0.93	12	0.36	271	30	11.53	33.17	5.92	25.28	270	0.09
49	11.18	33.477	4.41	1.49	23	0.14	242	50	11.17	33.49	4.37	25.59	240	0.14
74	10.40	33.665	3.51	1.99	39	0.28	215	75	(10.38)	(33.67)	(3.46)	(25.87)	(214)	(0.20)
ALEXANDER AGASSIZ; February 1, 1964; 1403 GCT; 37°37.5'N, 123°37'W; sounding, 1830 fm; wind, 320°, force 4; weather, drizzle; sea, moderate; wire angle, 18°.														60.60
0	12.53	33.104	6.45	0.45	4	0.07	293	0	12.53	33.10	6.45	25.03	293	0.00
10	12.52	33.105	6.45	0.45	4	0.06	293	10	12.52	33.10	6.45	25.04	293	0.03
29	12.45	33.114	6.39	0.47	4	0.11	291	20	12.50	33.11	6.43	25.05	292	0.06
38	12.24	33.205	5.90	0.67	5	0.29	280	30	12.44	33.12	6.37	25.07	290	0.09
52	11.56	33.271	5.60	0.96	9	0.10	263	50	11.65	33.26	5.66	25.32	266	0.14
67	10.64	33.385	4.85	1.34	14	0.01	239	75	10.30	33.44	4.66	25.70	230	0.21
91	9.76	33.529	4.33	1.62	19	0.00	214	100	9.59	33.62	4.11	25.96	205	0.26
110	3.42	33.707	3.83	1.78	24	0.00	196	125	9.13	33.82	3.46	26.19	183	0.31
129	9.07	33.839	3.39	1.91	28	0.00	181	150	8.83	33.90	3.53	26.30	173	0.35
149	8.84	33.900	3.54	1.92	29	0.00	173	200	8.39	34.05	2.52	26.49	155	0.44
177	8.68	34.004	2.83	-	-	-	163	250	7.91	34.10	2.08	26.60	144	0.52
211	8.24	34.063	2.39	-	-	-	152	300	7.22	34.10	1.99	26.70	135	0.59
240	8.04	34.105	2.10	-	-	-	146	400	6.54	34.16	1.17	26.84	122	0.72
288	7.32	34.093	2.06	-	-	-	137	500	5.98	34.22	0.80	26.96	110	0.84
342	6.88	34.102	1.77	-	-	-	130	600	(5.40)	(34.29)	(0.64)	(27.09)	(98)	(0.95)
424	6.40	34.189	0.98	-	-	-	118							
508	5.94	34.229	0.79	-	-	-	109							
592	5.44	34.282	0.64	-	-	-	99							
ALEXANDER AGASSIZ; February 1, 1964; 1855 GCT; 37°17.5'N, 124°20.5'W; sounding, 2160 fm; wind, 360°, force 4; weather, partly cloudy; sea, very rough; wire angle, 14°.														60.70
1	12.55	32.739	6.44	0.53	2	0.02	320	0	(12.55)	(32.74)	(6.44)	(24.75)	(320)	(0.00)
11	12.53	32.736	6.45	0.45	2	0.01	320	10	12.53	32.74	6.45	24.76	320	0.03
35	11.90	32.863	6.23	0.60	4	0.25	299	20	12.25	32.74	6.41	24.81	315	0.06
65	11.15	33.256	5.39	1.10	9	0.01	257	30	11.92	32.80	6.29	24.92	304	0.09
74	10.58	33.278	5.03	1.35	13	0.00	246	50	11.51	33.10	5.84	25.23	275	0.15
94	9.36	33.579	4.09	1.82	24	0.00	204	75	10.42	33.28	4.97	25.56	243	0.22
109	8.56	33.602	4.49	1.70	24	-	191	100	9.00	33.59	4.27	26.04	198	0.27
123	8.41	33.682	4.32	1.79	26	0.00	183	125	8.39	33.69	4.27	26.21	182	0.32
152	8.12	33.872	3.33	2.18	36	-	164	150	8.13	33.87	3.36	26.39	165	0.37
171	7.87	33.911	3.31	2.18	38	0.00	158	200	7.54	33.97	2.94	26.55	149	0.45
200	7.54	33.970	2.94	-	-	-	149	250	6.93	34.00	2.28	26.66	139	0.52
234	7.23	33.992	2.50	-	-	-	143	300	6.50	34.05	1.93	26.76	129	0.59
262	6.74	34.011	-	-	-	-	135	400	5.79	34.11	1.22	26.90	116	0.72
310	6.44	34.057	1.87	-	-	-	128	500	5.17	34.18	0.77	27.03	104	0.83
372	5.96	34.084	1.41	-	-	-	120	600	4.79	34.26	0.57	27.13	94	0.94
468	5.47	34.173	0.86	-	-	-	108							
555	4.77	34.193	0.68	-	-	-	99							
630	4.80	34.299	0.47	-	-	-	91							

a) Alternate value, 11.72°C, not used in interpolation.

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	OBSERVED							COMPUTED	INTERPOLATED				COMPUTED		
	Z	T	S	O_2	PO_4-P	SiO_3-Si	NO_2-N	δ_T	Z	T	S	O_2	σ_t	δ_T	ΔD
	m	°C	‰	ml/L	µg at/L	µg at/L	µg at/L	cl/ton	m	°C	‰	ml/L	g/L	cl/ton	dyn m
60.80	ALEXANDER AGASSIZ; February 2, 1964; 0300 GCT; 36°57'N, 125°03.5'W; sounding, 2295 fm; wind, 340°, force 7; weather, partly cloudy; sea, very rough; wire angle, 36°.														
	0	13.80	32.950	6.16	0.43	1	0.00	328	0	13.80	32.95	6.16	24.67	328	0.00
	8	13.80	32.955	6.22	0.39	1	0.00	328	10	13.79	32.95	6.20	24.67	328	0.03
	38	13.74	32.943	6.11	0.41	1	0.00	328	20	13.77	32.95	6.17	24.67	328	0.07
	65	13.73	32.956	5.98	0.42	1	0.00	327	30	13.75	32.94	6.13	24.67	328	0.10
	81	12.75	33.018	6.16	0.64	1	0.07	303	50	13.73	32.94	6.05	24.67	328	0.16
	92	12.00	33.105	5.85	0.69	3	0.00	283	75	13.58	32.96	5.98	24.72	323	0.25
	107	10.98	33.156	5.66	0.82	5	0.00	262	100	11.85	33.13	5.81	25.19	279	0.32
	123	10.24	33.380	4.89	1.43	13	0.00	233	125	10.14	33.42	4.71	25.72	229	0.39
	137	9.62	33.565	4.24	1.86	20	0.00	210	150	9.11	33.66	4.07	26.07	195	0.44
	160	8.82	33.718	3.96	1.72	26	0.00	186	200	8.48	33.95	2.86	26.40	164	0.53
	180	8.74	33.883	3.13	-	-	-	173	250	7.77	34.03	2.57	26.57	148	0.61
	198	8.50	33.947	2.89	-	-	-	164	300	7.18	34.05	2.15	26.67	138	0.68
	222	8.18	33.998	2.76	-	-	-	156	400	6.35	34.14	1.21	26.85	121	0.82
	252	7.74	34.029	2.55	-	-	-	147	500	(5.59)	(34.17)	(0.89)	(26.97)	(110)	(0.94)
	290	7.29	34.048	2.26	-	-	-	140							
	353	6.62	34.095	1.51	-	-	-	128							
	425	6.19	34.156	1.10	-	-	-	118							
	493	5.64	34.171	0.90	-	-	-	110							
60.90	ALEXANDER AGASSIZ; February 2, 1964; 0936 GCT; 36°37'N, 125°46.5'W; sounding, 2405 fm; wind, 360°, force 7; weather, clear; sea, missing; wire angle, 37°.														
	0	13.64	32.892	-	0.42	1	0.00	330	0	13.64	32.89		24.65	330	0.00
	8	13.63	32.888	6.23	0.42	1	0.00	330	10	13.63	32.89	6.23	24.65	330	0.03
	40	13.63	32.886	6.20	0.42	1	0.00	330	20	13.63	32.89	6.22	24.65	330	0.07
	68	13.46	32.866	6.10	0.43	1	0.02	328	30	13.63	32.89	6.21	24.65	330	0.10
	84	13.04	32.933	6.03	0.56	3	0.09	315	50	13.47	32.87	6.12	24.67	328	0.16
	96	11.20	33.168	5.34	1.14	9	0.00	265	75	13.39	32.87	6.08	24.69	326	0.25
	112	10.47	33.416	4.77	1.51	16	0.00	234	100	11.00	33.24	5.19	25.43	256	0.32
	126	10.16	33.592	4.17	1.76	21	0.00	216	125	10.17	33.59	4.17	25.84	216	0.38
	141	10.01	33.730	3.62	1.99	24	0.00	203	150	9.86	33.77	3.42	26.04	198	0.43
	169	9.49	33.851	3.00	2.21	30	0.00	186	200	9.10	33.97	2.28	26.32	171	0.53
	185	9.20	33.923	2.54	-	-	-	177	250	8.70	34.06	1.98	26.45	159	0.61
	202	9.08	33.972	2.27	-	-	-	171	300	8.33	34.12	1.68	26.55	149	0.69
	227	8.88	34.031	2.08	-	-	-	164	400	7.45	34.16	1.39	26.72	134	0.84
	260	8.62	34.079	1.93	-	-	-	156	500	6.75	34.20	1.01	26.84	121	0.97
	301	8.32	34.126	1.68	-	-	-	148							
	369	7.71	34.144	1.48	-	-	-	138							
	445	7.10	34.176	1.25	-	-	-	128							
	513	6.66	34.213	0.94	-	-	-	119							
60.100	ALEXANDER AGASSIZ; February 2, 1964; 1455 GCT; 36°17.5'N, 126°29.5'W; sounding, 2455 fm; wind, 360°, force 5; weather, overcast; sea, high; wire angle, 35°.														
	0	13.71	32.918	6.43	0.45	1	0.00	329	0	13.71	32.92	6.43	24.66	329	0.00
	8	13.70	32.916	6.43	0.44	1	0.00	329	10	13.70	32.92	6.42	24.66	329	0.03
	29	13.71	32.918	6.24	0.43	0	0.00	329	20	13.70	32.92	6.32	24.66	329	0.07
	55	13.55	32.894	6.10	0.48	0	0.00	328	30	13.71	32.92	6.23	24.66	329	0.10
	61	13.39	32.871	6.18	0.49	0	0.03	326	50	13.65	32.91	6.13	24.67	328	0.16
	78	12.46	33.013	5.82	0.78	3	0.05	298	75	12.52	33.00	5.86	24.96	301	0.24
	90	11.12	33.174	5.46	1.09	7	0.00	263	100	10.66	33.32	5.08	25.55	244	0.31
	102	10.60	33.348	4.98	1.43	12	0.00	241	125	10.39	33.66	3.94	25.86	215	0.37
	125	10.39	33.659	3.94	1.89	20	0.00	215	150	9.82	33.82	3.18	26.08	194	0.42
	140	10.02	33.779	3.45	2.14	25	0.00	200	200	9.14	33.98	2.16	26.32	171	0.52
	162	9.62	33.871	2.87	-	-	-	187	250	8.78	34.06	1.91	26.44	160	0.60
	189	9.25	33.951	2.30	-	-	-	175	300	8.45	34.11	1.71	26.53	151	0.68
	211	9.04	34.004	2.02	-	-	-	168	400	7.71	34.18	1.28	26.69	136	0.83
	250	8.78	34.058	1.91	-	-	-	160	500	6.86	34.21	0.99	26.84	122	0.97
	301	8.44	34.117	1.70	-	-	-	151							
	384	7.86	34.169	1.33	-	-	-	139							
	463	7.18	34.200	1.09	-	-	-	127							
	534	6.60	34.218	0.90	-	-	-	118							

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OBSERVED							COMPUTED	INTERPOLATED				COMPUTED		
Z	T	S	O_2	PO_4-P	SiO_3-Si	NO_2-N	δ_T	Z	T	S	O_2	σ_t	δ_T	ΔD
m	°C	‰	ml/L	µg at/L	µg at/L	µg at/L	cl/ton	m	°C	‰	ml/L	g/L	cl/ton	dyn m
ALEXANDER AGASSIZ; January 29, 1964; 1615 GCT; 37°18.5'N, 122°36.5'W; sounding, 48 fm; wind, 350°, force 1; weather, cloudy; sea, moderate; wire angle, 00°.														63.52
0	12.06	33.514	6.14	0.68	8	0.31	254	0	12.06	33.51	6.14	25.44	255	0.00
10	12.06	33.520	6.12	0.74	8	0.27	254	10	12.06	33.52	6.12	25.45	254	0.03
20	11.98	33.518	6.04	0.83	10	0.31	253	20	11.98	33.52	6.04	25.46	252	0.05
30	11.96	33.518	5.90	0.90	9	0.30	252	30	11.96	33.52	5.90	25.47	252	0.08
50	11.94	33.540	5.76	0.94	11	0.40	250	50	11.94	33.54	5.76	25.49	250	0.13
75	11.65	33.582	4.87	1.37	19	0.31	242	75	11.65	33.58	4.87	25.57	242	0.19
ALEXANDER AGASSIZ; January 29, 1964; 1425 GCT; 37°12.5'N, 122°50'W; sounding, 165 fm; wind, 010°, force 2; weather, cloudy; sea, missing; wire angle, 03°.														63.55
0	12.44	33.491	6.03	0.65	7	0.19	263	0	12.44	33.49	6.03	25.35	263	0.00
10	12.44	33.489	6.01	0.65	6	0.19	263	10	12.44	33.49	6.01	25.35	263	0.03
30	12.46	33.498	5.98	0.70	6	0.20	263	20	12.45	33.49	6.00	25.35	263	0.05
45	12.46	33.538	5.53	0.86	8	0.33	260	30	12.46	33.50	5.98	25.36	263	0.08
55	11.77	33.607	4.60	1.24	13	0.10	242	50	12.38	33.55	5.34	25.41	257	0.13
70	11.28	33.652	4.15	1.47	17	0.03	230	75	11.09	33.67	4.00	25.74	226	0.19
85	10.75	33.706	3.76	1.65	20	0.01	217	100	10.29	33.77	3.43	25.96	205	0.25
106	10.13	33.799	3.36	1.85	25	0.02	200	125	9.82	33.85	3.19	26.11	192	0.30
132	9.70	33.879	3.12	1.99	27	0.00	188	150	9.37	33.95	2.77	26.26	177	0.34
152	9.34	33.958	2.75	2.15	32	0.00	176	200	8.89	34.03	2.46	26.40	164	0.43
188	9.01	34.015	2.52	-	-	-	167	250	8.51	34.05	2.28	26.47	157	0.51
218	8.72	34.046	2.35	-	-	-	160							
258	8.48	34.055	2.28	-	-	-	156							
ALEXANDER AGASSIZ; January 29, 1964; 1133 GCT; 37°02.5'N, 123°11'W; sounding, 1345 fm; wind, 020°, force 2; weather, overcast; sea, missing; wire angle, 06°.														63.60
0	12.47	33.096	6.40	0.50	3	0.10	293	0	12.47	33.10	6.40	25.05	292	0.00
10	12.46	33.089	6.43	0.50	3	0.10	293	10	12.46	33.09	6.43	25.04	293	0.03
30	12.48	33.091	6.32	0.50	3	0.10	293	20	12.47	33.09	6.38	25.04	293	0.06
60	11.16	33.356	4.85	1.23	12	0.01	250	30	12.48	33.09	6.32	25.04	293	0.09
70	10.88	33.416	4.75	1.33	13	0.01	241	50	12.30	33.11	6.11	25.09	288	0.15
85	9.94	33.540	4.26	1.61	19	0.00	216	75	10.60	33.45	4.61	25.66	234	0.21
99	9.49	33.676	4.10	1.76	23	0.00	199	100	9.48	33.68	4.10	26.03	199	0.27
114	9.14	33.748	3.86	1.79	25	0.00	189	125	9.00	33.81	3.53	26.21	182	0.31
139	8.82	33.897	3.11	2.06	32	0.00	173	150	8.67	33.95	3.11	26.37	167	0.36
159	8.55	33.977	3.11	2.06	35	0.00	163	200	8.09	34.05	2.57	26.54	151	0.44
189	8.18	34.033	2.73	-	-	-	153	250	7.64	34.09	2.11	26.63	141	0.51
218	7.96	34.066	2.37	-	-	-	148	300	7.26	34.11	1.77	26.70	135	0.59
248	7.66	34.087	2.14	-	-	-	142	400	6.18	34.10	1.36	26.84	122	0.72
298	7.28	34.112	1.78	-	-	-	135	500	5.44	34.16	0.87	26.98	109	0.84
353	6.61	34.102	1.60	-	-	-	127	600	4.97	34.27	0.57	27.12	95	0.95
438	5.88	34.111	1.19	-	-	-	117							
523	5.29	34.186	0.77	-	-	-	105							
608	4.94	34.275	0.57	-	-	-	94							
ALEXANDER AGASSIZ; January 29, 1964; 0146 GCT; 36°49'N, 122°04.5'W; sounding, 55 fm; wind, 320°, force 3; weather, fog; sea, moderate; wire angle, 07°.														67.50
0	12.76	33.431	6.13	0.58	6	0.16	273	0	12.76	33.43	6.13	25.25	273	0.00
10	12.76	33.429	6.12	0.58	6	0.16	273	10	12.76	33.43	6.12	25.25	273	0.03
20	12.76	33.429	5.99	0.59	6	0.16	273	20	12.76	33.43	5.99	25.25	273	0.05
30	12.74	33.427	6.05	0.60	6	0.17	273	30	12.74	33.43	6.05	25.25	273	0.08
40	12.74	33.448	5.84	0.66	6	0.21	272	50	12.73	33.50	5.64	25.31	268	0.14
55	12.70	33.529	5.48	0.80	8	0.27	265	75	11.57	33.66	4.21	25.65	235	0.20
70	11.94	33.636	4.53	1.24	15	0.19	243							
84	11.00	33.706	3.79	1.62	21	0.08	222							

SIO

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	OBSERVED							COMPUTED	INTERPOLATED				COMPUTED		
	Z	T	S	O_2	PO_4-P	SiO_3-Si	NO_2-N	δ_T	Z	T	S	O_2	σ_t	δ_T	ΔD
	m	°C	‰	ml/L	µg at/L	µg at/L	µg at/L	cl/ton	m	°C	‰	ml/L	g/L	cl/ton	dyn m
67.55	ALEXANDER AGASSIZ; January 29, 1964; 0343 GCT; 36°39'N, 122°26'W; sounding, 1260 fm; wind, 330°, force 4; weather, cloudy; sea, missing; wire angle, 17°.														
	0	12.82	33.489	5.97	0.63	6	0.20	270	0	12.82	33.49	5.97	25.28	270	0.00
	9	12.80	33.484	5.97	0.64	6	0.20	270	10	12.80	33.48	5.97	25.28	270	0.03
	29	12.80	33.483	5.93	0.64	6	0.20	270	20	12.80	33.48	5.95	25.28	270	0.05
	58	12.29	33.607	4.86	1.09	12	0.20	252	30	12.80	33.48	5.93	25.28	270	0.08
	67	11.81	33.665	4.20	1.35	15	0.04	239	50	12.54	33.55	5.33	25.38	260	0.13
	82	11.49	33.693	3.87	1.47	17	0.00	231	75	11.62	33.68	4.01	25.66	234	0.20
	96	11.09	33.727	3.61	1.61	19	0.00	222	100	10.97	33.74	3.54	25.82	219	0.25
	112	10.60	33.779	3.39	1.74	22	0.00	210	125	10.25	33.81	3.22	26.00	201	0.31
	135	10.00	33.840	3.11	1.89	25	0.00	195	150	9.70	33.88	2.98	26.15	187	0.36
	155	9.62	33.899	2.93	2.03	28	0.00	185	200	9.05	34.01	2.46	26.36	168	0.45
	184	9.24	33.977	2.61	-	-	-	173	250	8.53	34.09	2.11	26.50	154	0.53
	213	8.90	34.041	2.34	-	-	-	163	300	7.86	34.12	1.83	26.62	142	0.61
	242	8.63	34.084	2.14	-	-	-	156	400	7.04	34.20	0.97	26.80	125	0.75
	290	7.94	34.108	1.91	-	-	-	144	500	5.91	34.21	0.73	26.96	110	0.87
	343	7.69	34.193	1.28	-	-	-	134	600	(5.51)	(34.28)	(0.53)	(27.07)	(100)	(0.98)
	427	6.70	34.204	0.88	-	-	-	121							
	510	5.83	34.208	0.73	-	-	-	110							
	594	5.52	34.271	0.53	-	-	-	101							
67.60	ALEXANDER AGASSIZ; January 29, 1964; 0629 GCT; 36°29.5'N, 122°47.5'W; sounding, 1620 fm; wind, 330°, force 4; weather, partly cloudy; sea, missing; wire angle, 18°.														
	0	12.79	33.174	6.16	0.50	4	0.09	293	0	12.79	33.17	6.16	25.04	293	0.00
	9	12.77	33.168	6.16	0.49	4	0.09	293	10	12.77	33.17	6.16	25.04	293	0.03
	28	12.78	33.169	6.18	0.49	4	0.09	293	20	12.78	33.17	6.17	25.04	293	0.06
	57	11.96	33.316	5.18	0.98	9	0.09	267	30	12.78	33.17	6.18	25.04	293	0.09
	67	11.02	33.423	4.69	1.32	13	0.01	243	50	12.50	33.20	5.95	25.12	285	0.15
	81	10.06	33.526	4.27	1.55	18	0.00	219	75	10.48	33.47	4.45	25.70	230	0.21
	95	9.57	33.663	3.91	1.74	22	0.00	201	100	9.48	33.70	3.81	26.04	197	0.26
	109	9.36	33.754	3.72	1.79	24	0.00	191	125	9.09	33.80	3.72	26.19	184	0.31
	133	9.00	33.829	3.72	1.81	26	0.00	180	150	8.85	33.91	3.60	26.31	172	0.36
	151	8.84	33.907	3.60	1.87	28	0.00	172	200	8.15	34.01	2.89	26.50	155	0.44
	180	8.47	33.990	3.10	-	-	-	161	250	7.78	34.08	2.23	26.61	144	0.52
	207	8.07	34.019	2.81	-	-	-	153	300	7.16	34.11	1.70	26.72	133	0.59
	234	7.98	34.062	2.41	-	-	-	148	400	6.47	34.19	0.86	26.87	119	0.72
	281	7.36	34.088	1.96	-	-	-	138	500	5.68	34.22	0.65	27.00	107	0.84
	331	6.92	34.135	1.38	-	-	-	128							
	412	6.38	34.194	0.83	-	-	-	117							
	494	5.71	34.218	0.67	-	-	-	107							
	578	5.10	34.230	0.56	-	-	-	100							
70.53	ALEXANDER AGASSIZ; January 28, 1964; 1349 GCT; 36°06.5'N, 121°54'W; sounding, 555 fm; wind, 340°, force 6; weather, partly cloudy; sea, rough; wire angle, 35°.														
	0	13.31	33.629	5.93	0.60	5	0.13	269	0	13.31	33.63	5.93	25.29	269	0.00
	8	13.30	33.625	5.85	0.60	5	0.12	269	10	13.30	33.62	5.86	25.28	270	0.03
	29	13.30	33.623	5.90	0.63	5	0.13	269	20	13.30	33.62	5.88	25.28	270	0.05
	54	12.86	33.637	5.29	0.84	7	0.13	260	30	13.30	33.62	5.90	25.28	270	0.08
	63	11.64	33.702	4.12	1.39	15	0.14	233	50	13.30	33.62	5.88	25.28	270	0.14
	79	11.19	33.735	3.77	1.59	19	0.03	223	75	11.22	33.72	3.81	25.76	224	0.20
	91	10.92	33.752	3.62	1.68	20	0.01	217	100	10.68	33.78	3.48	25.90	211	0.25
	104	10.56	33.791	3.40	1.80	22	0.00	208	125	9.94	33.88	3.01	26.11	191	0.30
	128	9.90	33.884	2.98	1.99	25	0.00	190	150	9.64	33.92	2.89	26.19	184	0.35
	145	9.69	33.917	2.90	2.05	28	0.00	185	200	8.79	34.02	2.57	26.40	163	0.44
	169	9.42	33.959	2.87	-	-	-	177	250	8.46	34.09	2.20	26.51	153	0.52
	198	8.81	34.018	2.58	-	-	-	164	300	7.85	34.13	1.81	26.63	141	0.60
	223	8.66	34.055	2.43	-	-	-	159	400	6.80	34.20	0.97	26.84	122	0.73
	265	8.32	34.106	2.06	-	-	-	150	500	6.09	34.23	0.73	26.95	111	0.86
	321	7.58	34.148	1.64	-	-	-	136							
	409	6.72	34.204	0.92	-	-	-	121							
	492	6.14	34.227	0.74	-	-	-	112							
	564	5.65	34.262	0.59	-	-	-	103							

OBSERVED							COMPUTED	INTERPOLATED				COMPUTED			SIO
Z	T	S	O_2	PO_4-P	SiO_3-Si	NO_2-N	δ_T	Z	T	S	O_2	σ_t	δ_T	ΔD	CCOFI
m	°C	‰	ml/L	µg at/L	µg at/L	µg at/L	cl/ton	m	°C	‰	ml/L	g/L	cl/ton	dyn m	6401
ALEXANDER AGASSIZ; January 28, 1964; 0913 GCT; 35°53'N, 122°21'W; sounding, 1670 fm; wind, 350°, force 6; weather, cloudy; sea, very rough; wire angle, 32°.															70.60
1	12.83	33.262	6.38	0.52	5	0.07	287	0	(12.83)	(33.26)	(6.38)	(25.10)	(287)	(0.00)	
9	12.82	33.254	6.28	0.52	4	0.07	287	10	12.82	33.25	6.28	25.09	288	0.03	
30	12.82	33.259	6.24	0.52	4	0.07	287	20	12.82	33.26	6.26	25.10	287	0.06	
39	12.76	33.275	6.11	0.53	4	0.09	285	30	12.82	33.26	6.24	25.10	287	0.09	
51	12.36	33.351	5.64	0.77	6	0.20	272	50	12.40	33.34	5.71	25.25	273	0.14	
65	10.64	33.438	4.55	1.39	14	0.00	235	75	10.15	33.53	4.21	25.80	221	0.20	
86	9.80	33.620	3.98	1.71	22	0.00	208	100	9.46	33.71	3.62	26.06	196	0.26	
103	9.40	33.726	3.57	1.88	24	0.00	194	125	9.15	33.83	3.24	26.20	183	0.31	
120	9.20	33.803	3.36	1.95	27	0.00	185	150	8.89	33.94	2.95	26.33	171	0.35	
145	8.95	33.932	2.90	2.08	33	0.00	172	200	8.33	34.02	2.68	26.48	156	0.43	
171	8.60	33.961	3.13	-	-	-	165	250	7.63	34.07	2.24	26.62	143	0.51	
203	8.30	34.030	2.64	-	-	-	155	300	7.12	34.11	1.71	26.72	133	0.58	
228	7.96	34.051	2.50	-	-	-	149	400	6.40	34.16	1.06	26.86	120	0.71	
268	7.46	34.084	2.03	-	-	-	139	500	5.69	34.22	0.73	27.00	107	0.83	
323	6.90	34.122	1.51	-	-	-	129								
408	6.34	34.164	1.01	-	-	-	119								
491	5.74	34.215	0.77	-	-	-	108								
563	5.38	34.287	0.54	-	-	-	98								
ALEXANDER AGASSIZ; January 28, 1964; 0344 GCT; 35°33'N, 123°06'W; sounding, 2040 fm; wind, 340°, force 4; weather, cloudy; sea, very rough; wire angle, 35°.															70.70
0	12.70	32.794	6.33	0.43	4	0.04	319	0	12.70	32.79	6.33	24.76	319	0.00	
8	12.70	32.790	6.34	0.43	3	0.05	319	10	12.70	32.79	6.34	24.76	319	0.03	
29	12.64	32.821	6.24	0.43	3	0.06	316	20	12.66	32.80	6.29	24.78	318	0.06	
54	12.56	32.918	6.07	0.50	3	0.20	307	30	12.64	32.82	6.24	24.80	316	0.10	
61	12.38	33.056	5.84	0.61	4	0.30	294	50	12.57	32.89	6.10	24.86	310	0.16	
78	11.58	33.174	5.54	0.92	8	0.11	271	75	12.00	33.13	5.70	25.16	282	0.23	
90	11.18	33.278	5.07	1.15	11	0.02	256	100	10.48	33.38	4.60	25.63	237	0.30	
103	10.44	33.405	4.55	1.45	15	0.00	235	125	9.69	33.55	4.11	25.89	212	0.35	
127	9.62	33.572	4.06	1.72	21	0.00	209	150	8.89	33.79	3.45	26.21	182	0.40	
140	9.07	33.733	3.57	1.91	27	0.00	189	200	8.17	33.97	3.28	26.46	158	0.49	
163	8.76	33.865	3.27	-	-	-	174	250	7.73	34.06	2.41	26.60	145	0.57	
186	8.51	33.968	2.91	-	-	-	163	300	7.19	34.08	1.88	26.69	136	0.64	
206	8.05	33.977	3.34	-	-	-	156	400	6.73	34.21	0.97	26.85	120	0.77	
243	7.80	34.049	2.50	-	-	-	147	500	5.91	34.24	0.70	26.99	108	0.89	
290	7.26	34.073	1.99	-	-	-	138								
366	6.90	34.169	1.13	-	-	-	126								
441	6.50	34.232	0.83	-	-	-	116								
509	5.80	34.238	0.69	-	-	-	107								
ALEXANDER AGASSIZ; January 27, 1964; 2238 GCT; 35°13'N, 123°48'W; sounding, 2200 fm; wind, 340°, force 4; weather, overcast; sea, high; wire angle, 14°.															70.80
1	14.16	33.114	6.08	0.35	2	0.00	323	0	(14.16)	(33.11)	(6.08)	(24.72)	(324)	(0.00)	
10	14.13	33.109	6.07	0.35	2	0.00	323	10	14.13	33.11	6.07	24.72	323	0.03	
30	14.14	33.111	6.08	0.36	2	0.00	323	20	14.13	33.11	6.07	24.72	323	0.06	
59	13.88	33.118	5.87	0.43	2	0.07	318	30	14.14	33.11	6.08	24.72	323	0.10	
69	12.96	33.123	5.84	0.58	3	0.03	300	50	14.10	33.11	6.06	24.73	323	0.16	
83	12.06	33.232	5.50	0.79	6	0.00	275	75	12.50	33.17	5.71	25.09	288	0.24	
98	10.71	33.300	5.18	1.09	10	0.00	247	100	10.65	33.31	5.18	25.54	245	0.31	
112	9.89	33.409	5.09	1.18	13	0.00	225	125	9.15	33.56	4.67	25.99	203	0.36	
137	8.90	33.645	4.33	1.64	23	0.00	193	150	8.76	33.73	4.05	26.18	184	0.41	
155	8.69	33.771	3.89	1.83	27	0.00	180	200	8.24	33.96	3.13	26.44	160	0.50	
185	8.34	33.922	3.26	-	-	-	164	250	7.75	34.06	2.35	26.59	145	0.58	
213	8.16	33.995	3.00	-	-	-	156	300	7.07	34.07	2.01	26.70	135	0.65	
242	7.85	34.057	2.43	-	-	-	147	400	6.33	34.17	0.98	26.88	118	0.78	
290	7.20	34.070	2.08	-	-	-	137	500	5.55	34.22	0.64	27.01	105	0.90	
346	6.59	34.106	1.51	-	-	-	126	600	(5.16)	(34.31)	(0.47)	(27.13)	(94)	(1.00)	
427	6.20	34.187	0.79	-	-	-	116								
510	5.48	34.230	0.61	-	-	-	104								
594	5.18	34.300	0.47	-	-	-	95								

S10
CCOFI
6401

OBSERVED							COMPUTED	INTERPOLATED				COMPUTED		
Z	T	S	O_2	PO_4-P	SiO_3-Si	NO_2-N	δ_T	Z	T	S	O_2	σ_t	δ_T	ΔD
m	°C	‰	ml/L	µg at/L	µg at/L	µg at/L	cl/ton	m	°C	‰	ml/L	g/L	cl/ton	dyn m

70.90 ALEXANDER AGASSIZ; January 27, 1964; 1751 GCT; 34°54'N, 124°31'W; sounding, 2350 fm; wind, 330°, force 3; weather, cloudy; sea, rough; wire angle, 15°.

0	12.88	32.793	6.41	0.40	2	0.03	322	0	12.88	32.79	6.41	24.73	323	0.00
9	12.86	32.785	6.31	0.40	2	0.03	323	10	12.86	32.78	6.31	24.72	323	0.03
29	12.85	32.785	6.28	0.40	2	0.04	322	20	12.85	32.78	6.30	24.73	323	0.06
58	12.54	32.845	6.04	0.53	2	0.13	312	30	12.85	32.78	6.28	24.73	323	0.10
68	12.02	33.051	5.92	0.74	5	0.13	288	50	12.83	32.78	6.25	24.73	322	0.16
82	10.58	33.098	5.36	1.13	9	0.00	260	75	11.33	33.08	5.67	25.24	273	0.24
96	9.96	33.282	4.93	1.41	17	0.00	236	100	9.94	33.33	4.87	25.68	232	0.30
111	9.56	33.489	4.53	1.53	19	0.00	214	125	8.90	33.65	4.14	26.10	192	0.35
135	8.84	33.727	3.94	1.83	25	0.00	186	150	8.93	33.86	3.42	26.26	177	0.40
154	8.94	33.883	3.31	1.97	31	0.00	176	200	8.24	34.01	2.83	26.48	156	0.49
182	8.62	34.001	2.79	-	-	-	162	250	7.57	34.06	2.34	26.62	143	0.56
210	8.06	34.021	2.85	-	-	-	152	300	6.94	34.08	1.95	26.72	133	0.63
238	7.72	34.057	2.43	-	-	-	145	400	6.26	34.16	1.05	26.88	118	0.76
285	7.11	34.069	2.12	-	-	-	136	500	5.53	34.23	0.70	27.02	104	0.88
338	6.62	34.104	1.57	-	-	-	127	600	(4.87)	(34.26)		(27.13)	(95)	(0.99)
418	6.14	34.170	0.96	-	-	-	116							
499	5.54	34.225	0.71	-	-	-	105							
585	4.95	34.261	0.60	-	-	-	96							

70.100 ALEXANDER AGASSIZ; January 27, 1964; 0455 GCT; 34°33'N, 125°12'W; sounding, 2460 fm; wind, 340°, force 3; weather, overcast; sea, moderate; wire angle, 21°.

1	13.65	32.861	6.31	0.39	1	0.01	332	0	(13.65)	(32.86)	(6.31)	(24.63)	(332)	(0.00)
10	13.63	32.858	6.28	0.39	1	0.01	332	10	13.63	32.86	6.28	24.63	332	0.03
29	13.66	32.861	6.30	0.39	1	0.01	332	20	13.64	32.86	6.29	24.63	332	0.07
57	13.54	32.842	6.20	0.39	1	0.02	331	30	13.66	32.86	6.30	24.63	332	0.10
66	13.40	32.843	6.25	0.44	1	0.05	329	50	13.60	32.85	6.25	24.63	332	0.17
80	12.13	33.018	5.95	0.72	3	0.01	292	75	12.55	32.95	6.09	24.91	305	0.25
94	10.74	33.202	5.38	1.16	11	0.01	254	100	10.49	33.22	5.28	25.50	249	0.32
108	10.16	33.242	5.10	1.33	14	0.00	242	125	9.70	33.45	4.58	25.81	219	0.38
132	9.66	33.508	4.48	1.67	20	0.00	214	150	9.16	33.62	4.24	26.03	198	0.43
151	9.12	33.629	4.23	1.74	24	0.00	197	200	8.32	33.93	3.37	26.41	163	0.52
179	8.58	33.829	3.89	-	-	-	174	250	7.76	34.03	2.52	26.57	148	0.60
207	8.25	33.958	3.20	-	-	-	160	300	7.09	34.07	2.19	26.70	136	0.67
235	8.00	34.024	2.62	-	-	-	151	400	6.11	34.13	1.13	26.87	119	0.80
282	7.26	34.035	2.46	-	-	-	140	500	5.42	34.19	0.80	27.01	106	0.92
334	6.84	34.125	1.63	-	-	-	128	600	(5.09)	(34.29)		(27.12)	(95)	(1.03)
416	5.97	34.136	1.07	-	-	-	117							
500	5.42	34.189	0.80	-	-	-	106							
583	5.13	34.276	0.57	-	-	-	96							

70.120 ALEXANDER AGASSIZ; January 27, 1964; 0423 GCT; 33°53'N, 126°36'W; sounding, 2574 fm; wind, 340°, force 4; weather, cloudy; sea, rough; wire angle, 28°.

1	14.00	33.000	6.11	0.46		0.00	329	0	(14.00)	(33.00)	(6.11)	(24.66)	(329)	(0.00)
10	13.98	32.996	6.18	0.41		0.00	329	10	13.98	33.00	6.18	24.67	328	0.03
28	14.07	33.056	6.12	0.40		0.00	326	20	14.01	33.02	6.15	24.68	327	0.07
54	13.59	32.976	6.05	0.42		0.02	322	30	14.07	33.06	6.12	24.70	326	0.10
63	13.29	33.116	5.92	0.59		0.06	306	50	13.68	32.99	6.06	24.72	323	0.16
76	12.18	33.089	5.84	0.69		0.01	288	75	12.29	33.09	5.85	25.07	290	0.24
89	11.50	33.145	5.59	0.88		0.00	272	100	10.78	33.22	5.31	25.45	254	0.31
102	10.76	33.231	5.31	1.11		0.00	253	125	9.79	33.44	4.72	25.79	221	0.37
124	9.82	33.420	4.78	1.46		0.00	223	150	9.22	33.70	3.85	26.09	193	0.42
141	9.42	33.617	4.11	1.72		0.00	203	200	8.59	33.96	4.20	26.39	165	0.51
166	8.95	33.805	3.56	-		-	181	250	7.74	34.00	3.60	26.55	150	0.59
191	8.71	33.933	4.17	-		-	168	300	6.82	34.01	2.70	26.69	137	0.67
216	8.31	33.994	4.22	-		-	158	400	6.00	34.08	1.46	26.85	121	0.80
259	7.58	34.002	3.41	-		-	147	500	5.17	34.14	0.92	27.00	107	0.92
306	6.74	34.009	2.58	-		-	136							
380	6.18	34.065	1.59	-		-	124							
457	5.50	34.117	1.12	-		-	112							
540	4.97	34.160	0.80	-		-	103							

SIO
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OBSERVED							COMPUTED	INTERPOLATED				COMPUTED		
Z	T	S	O_2	PO_4-P	SiO_3-Si	NO_2-N	δ_T	Z	T	S	O_2	σ_t	δ_T	ΔD
m	°C	‰	ml/L	µg at/L	µg at/L	µg at/L	cl/ton	m	°C	‰	ml/L	g/L	cl/ton	dyn m
ALEXANDER AGASSIZ; January 24, 1964; 2338 GCT; 35°31.5'N, 121°29'W; sounding, 400 fm; wind, 290°, force 2; weather, partly cloudy; sea, moderate; wire angle, 02°.														73.53
0	13.99	33.634	6.21	0.47	5	0.10	282	0	13.99	33.63	6.21	25.15	282	0.00
10	13.65	33.627	6.09	0.47	-	0.11	276	10	13.65	33.63	6.09	25.22	276	0.03
30	13.56	33.629	5.84	0.56	5	0.10	274	20	13.59	33.63	5.92	25.23	274	0.06
60	13.00	33.629	5.41	0.72	6	0.10	263	30	13.56	33.63	5.84	25.24	274	0.08
71	11.81	33.694	4.41	1.27	14	0.08	237	50	13.50	33.63	5.78	25.25	273	0.14
86	11.18	33.733	3.76	1.54	18	0.04	223	75	11.40	33.71	4.00	25.72	228	0.20
101	10.64	33.799	3.43	1.71	22	0.01	209	100	10.68	33.79	3.46	25.91	210	0.26
116	10.11	33.888	3.08	1.92	25	0.00	193	125	9.88	33.92	2.93	26.15	187	0.31
141	9.63	33.948	2.78	2.07	30	0.00	181	150	9.55	33.96	2.73	26.24	179	0.35
161	9.45	33.976	2.69	2.13	33	0.00	176	200	8.94	34.06	2.35	26.41	162	0.44
191	9.02	34.041	2.44	-	-	-	165	250	8.47	34.14	2.06	26.55	149	0.52
221	8.78	34.085	2.20	-	-	-	158	300	7.83	34.20	1.76	26.69	136	0.59
251	8.46	34.141	2.05	-	-	-	149	400	6.80	34.18	1.02	26.82	124	0.73
301	7.82	34.202	1.75	-	-	-	136	500	5.89	34.26	0.70	27.00	106	0.85
356	7.30	34.169	1.27	-	-	-	131	600	5.37	34.32	0.58	27.11	96	0.96
441	6.36	34.219	0.83	-	-	-	115							
526	5.76	34.285	0.66	-	-	-	103							
611	5.30	34.322	0.57	-	-	-	95							
ALEXANDER AGASSIZ; January 25, 1964; 0434 GCT; 35°18'N, 121°57.5'W; sounding, 1330 fm; wind, 320°, force 2; weather, clear; sea, moderate; wire angle, 04°.														73.60
0	13.28	33.189	6.21	0.44	3	0.04	301	0	13.28	33.19	6.21	24.96	301	0.00
10	13.21	33.178	6.31	0.44	3	0.04	300	10	13.21	33.18	6.31	24.96	300	0.03
30	13.06	33.218	5.98	0.53	3	0.09	295	20	13.12	33.19	6.19	24.99	298	0.06
55	12.62	33.394	5.55	0.75	6	0.20	273	30	13.06	33.22	5.98	25.02	294	0.09
65	12.29	33.421	5.43	0.85	8	0.16	265	50	13.00	33.24	5.88	25.05	292	0.15
75	11.24	33.438	4.78	1.19	12	0.06	246	75	11.24	33.44	4.78	25.54	245	0.22
90	10.00	33.589	-	1.60	19	0.00	214	100	9.70	33.65	3.88	25.97	204	0.27
105	9.59	33.676	3.80	1.74	22	0.00	201	125	9.23	33.82	3.32	26.18	185	0.32
130	9.18	33.869	3.18	1.97	29	0.00	180	150	9.10	33.98	2.79	26.32	171	0.37
150	9.10	33.977	2.79	2.11	33	0.00	171	200	8.20	34.04	2.40	26.51	153	0.45
175	8.85	34.015	2.69	-	-	-	164	250	7.75	34.10	2.00	26.63	142	0.53
205	8.10	34.046	2.36	-	-	-	151	300	7.49	34.16	1.48	26.71	134	0.60
235	7.82	34.073	2.22	-	-	-	145	400	6.75	34.20	0.91	26.84	121	0.73
275	7.66	34.140	1.62	-	-	-	138	500	5.97	34.25	0.68	26.99	108	0.85
335	7.24	34.166	1.34	-	-	-	130							
410	6.67	34.204	0.86	-	-	-	120							
485	6.09	34.239	0.71	-	-	-	110							
566	5.48	34.275	0.54	-	-	-	100							
ALEXANDER AGASSIZ; January 22, 1964; 2113 GCT; 35°12.5'N, 120°57'W; sounding, 77 fm; wind, 330°, force 3; weather, partly cloudy; sea, very high; wire angle, 07°.														76.50
1	13.80	33.605	-	0.59	5	0.15	280	0	(13.80)	(33.60)		(25.17)	(281)	(0.00)
11	13.68	33.603	5.90	0.61	5	0.16	278	10	13.69	33.60	(5.90)	25.19	279	0.03
26	13.56	33.606	5.81	0.66	6	0.19	276	20	13.60	33.60	5.85	25.21	277	0.06
36	13.49	33.600	5.72	0.71	6	0.23	275	30	13.53	33.60	5.77	25.22	275	0.08
46	13.40	33.614	-	0.74	7	0.21	272	50	13.35	33.62		25.27	271	0.14
61	12.99	33.634	4.93	0.99	8	0.23	263	75	12.22	33.66	4.32	25.53	246	0.20
76	12.20	33.664	4.30	1.29	11	0.05	246	100	11.81	33.69	3.99	25.63	237	0.26
101	11.80	33.687	3.98	1.46	14	0.03	237							

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OBSERVED							COMPUTED	INTERPOLATED				COMPUTED		
Z	T	S	O_2	PO_4-P	SiO_3-Si	NO_2-N	δ_T	Z	T	S	O_2	σ_t	δ_T	ΔD
m	°C	‰	ml/L	µg at/L	µg at/L	µg at/L	cl/ton	m	°C	‰	ml/L	g/L	cl/ton	dyn m

76.52 ALEXANDER AGASSIZ; January 22, 1964; 1912 GCT; 35°08'N, 121°08'W; sounding, 287 fm; wind, 360°, force 4; weather, cloudy; sea, missing; wire angle, 00°.

0	13.73	33.641	5.98	0.48	4	0.06	276	0	13.73	33.64	5.98	25.21	276	0.00
10	13.75	33.635	6.00	0.51	4	0.06	277	10	13.75	33.64	6.00	25.21	277	0.03
40	13.56	33.634	5.69	0.61	4	0.07	274	20	13.73	33.63	5.91	25.20	277	0.06
70	11.16	33.652	4.03	1.51	16	0.05	228	30	13.69	33.63	5.89	25.21	276	0.08
100	10.39	33.801	3.44	1.82	21	0.00	204	50	13.00	33.63	5.15	25.35	263	0.14
130	9.98	33.905	2.92	2.05	26	0.00	190	75	10.98	33.67	3.92	25.76	224	0.20
161	9.59	34.000	2.52	2.22	30	-	177	100	10.39	33.80	3.44	25.97	204	0.25
200	9.39	34.048	-	2.32	32	0.00	170	125	10.04	33.89	3.02	26.10	192	0.30
251	9.02	34.118	2.08	2.36	36	-	159	150	9.72	33.96	2.65	26.21	182	0.35
301	8.74	34.146	1.97	2.52	39	0.00	153	200	9.39	34.05		26.33	170	0.44
351	8.12	34.164	1.70	2.70	45	-	143	250	9.03	34.12	2.09	26.45	159	0.52
401	7.60	34.202	1.19	2.95	53	0.00	133	300	8.75	34.14	1.98	26.51	154	0.61
452	6.95	34.238	0.87	3.08	62	-	121	400	7.61	34.20	1.20	26.72	133	0.75
502	6.62	34.242	0.77	3.21	67	0.00	117	500	6.63	34.24	0.78	26.89	117	0.89

76.55 ALEXANDER AGASSIZ; January 22, 1964; 1546 GCT; 35°03'N, 121°17'W; sounding, 330 fm; wind, 300°, force 5; weather, partly cloudy; sea, missing; wire angle, 20°.

1	13.34	33.618	5.87	0.57	4	0.08	270	0	(13.34)	(33.62)	(5.87)	(25.28)	(270)	(0.00)
10	13.32	33.607	6.03	0.58	5	0.06	271	10	13.32	33.61	6.03	25.27	271	0.03
48	13.34	33.614	5.98	0.59	5	0.07	271	20	13.32	33.61	6.02	25.27	271	0.05
71	11.21	33.644	4.16	1.45	15	0.04	230	30	13.33	33.61	6.00	25.27	271	0.08
96	10.34	33.734	3.75	1.71	21	0.00	209	50	13.33	33.61	5.97	25.27	271	0.14
125	9.70	33.893	3.17	1.99	27	0.00	186	75	11.10	33.65	4.10	25.73	227	0.20
153	9.28	34.016	2.67	2.19	32	0.00	171	100	10.24	33.75	3.70	25.96	206	0.25
192	8.96	34.113	2.14	2.44	38	-	159	125	9.70	33.89	3.17	26.16	187	0.30
240	8.56	34.155	1.94	2.56	42	0.00	150	150	9.32	34.00	2.73	26.30	173	0.35
290	8.28	34.191	1.65	2.67	46	-	143	200	8.89	34.12	2.11	26.47	157	0.43
338	7.94	34.227	1.34	2.81	50	0.00	135	250	8.50	34.16	1.88	26.56	148	0.51
387	7.34	34.201	1.22	2.90	56	-	129	300	8.22	34.20	1.58	26.63	141	0.59
437	6.90	34.232	0.88	3.09	64	0.00	121	400	7.19	34.21	1.11	26.79	126	0.73
486	6.60	34.227	0.87	3.13	68	-	118	500	6.46	34.23	0.85	26.91	116	0.85
545	5.84	34.272	0.59	3.23	80	0.00	105							

76.57 ALEXANDER AGASSIZ; January 22, 1964; 1320 GCT; 34°58'N, 121°27.5'W; sounding, 280 fm; wind, 280°, force 7; weather, missing; sea, missing; wire angle, 12°.

0	13.26	33.589					271	0	13.26	33.59		25.27	271	0.00
9	13.26	33.585					271	10	13.26	33.58		25.26	272	0.03
29	13.28	33.589					271	20	13.27	33.59		25.27	271	0.05
44	13.27	33.589					271	30	13.28	33.59		25.27	271	0.08
54	13.00	33.616					264	50	13.16	33.60		25.30	268	0.14
68	11.09	33.649					227	75	10.80	33.66		25.79	222	0.20
83	10.71	33.676					219	100	10.55	33.70		25.86	215	0.25
98	10.59	33.693					216	125	9.62	33.87		26.15	187	0.30
123	9.66	33.861					188	150	9.23	33.96		26.29	174	0.35
143	9.35	33.949					177	200	8.79	34.11		26.48	156	0.43
172	8.97	34.018					166	250	8.09	34.12		26.59	146	0.51
201	8.78	34.113					156	300	7.70	34.16		26.68	137	0.58
230	8.38	34.118					150	400	6.70	34.24		26.88	118	0.72
271	7.86	34.121					142	500	6.28	34.26		26.95	111	0.84
329	7.53	34.208					131							
383	6.92	34.229					121							
443	6.33	34.256					112							
503	6.28	34.256					111							

OBSERVED							COMPUTED	INTERPOLATED				COMPUTED		
Z	T	S	O_2	PO_4-P	SiO_3-Si	NO_2-N	δ_T	Z	T	S	O_2	σ_t	δ_T	ΔD
m	°C	‰	ml/L	µg at/L	µg at/L	µg at/L	cl/ton	m	°C	‰	ml/L	g/L	cl/ton	dyn m
ALEXANDER AGASSIZ; January 22, 1964; 1016 GCT; 34°52'N, 121°40'W; sounding, 715 fm; wind, 290°, force 8; weather, missing; sea, missing; wire angle, 36°.														76.60
1	13.24	33.469	5.96	0.56	4	0.13	280	0	(13.24)	(33.47)	(5.96)	(25.18)	(279)	(0.00)
9	13.22	33.465	5.90	0.57	5	0.13	279	10	13.22	33.47	5.90	25.18	279	0.03
30	13.24	33.470	5.91	0.57	4	0.13	279	20	13.23	33.47	5.91	25.18	279	0.06
53	13.07	33.514	5.57	0.69	5	0.14	273	30	13.24	33.47	5.91	25.18	279	0.08
74	11.26	33.674	3.90	1.48	16	0.01	228	50	13.10	33.50	5.63	25.23	275	0.14
86	11.00	33.681	3.81	1.54	18	0.00	223	75	11.24	33.68	3.89	25.73	228	0.20
98	10.64	33.728	3.66	1.65	20	0.00	214	100	10.62	33.73	3.65	25.87	213	0.26
122	9.72	33.774	3.43	1.84	24	0.00	196	125	9.71	33.78	3.42	26.07	195	0.31
138	9.36	33.870	3.10	1.99	27	-	183	150	9.14	33.94	2.81	26.29	174	0.36
158	9.02	33.977	2.69	2.16	31	0.00	170	200	8.51	34.06	2.30	26.48	156	0.44
187	8.66	34.048	2.38	2.30	36	-	159	250	8.09	34.11	1.94	26.58	146	0.52
236	8.18	34.097	2.06	2.46	42	0.00	149	300	7.78	34.18	1.44	26.68	137	0.59
288	7.86	34.175	1.51	2.70	48	-	138	400	6.95	34.23	0.97	26.84	122	0.73
362	7.29	34.209	1.21	2.90	57	0.00	128	500	6.14	34.28	0.52	26.99	108	0.85
471	6.32	34.266	0.58	3.17	72	-	111	600	5.60	34.31	0.45	27.08	99	0.96
569	5.78	34.296	0.45	3.29	84	0.00	102	700	5.01	34.35	0.48	27.18	90	1.06
713	4.96	34.358	0.49	3.38	96	-	88	800	4.63	34.39	0.51	27.26	82	1.15
866	4.40	34.412	0.52	3.37	109	0.00	78	1000	3.91	34.46	0.69	27.39	70	1.32
1058	3.74	34.479	0.75	3.37	125	-	67							
1135	3.63	34.488	0.79	3.31	127	0.00	65							
ALEXANDER AGASSIZ; January 22, 1964; 0748 GCT; 34°45'N, 121°54'W; sounding, 2090 fm; wind, 200°, force 10; weather, showers; sea, missing; wire angle, 38°.														76.63
2	13.22	33.247					295	0	(13.22)	(33.25)		(25.02)	(295)	(0.00)
10	13.20	33.249					295	10	13.20	33.25		25.02	295	0.03
29	13.22	33.256					295	20	13.21	33.25		25.02	295	0.06
53	13.17	33.329					288	30	13.22	33.25		25.02	295	0.09
59	13.01	33.449					277	50	13.19	33.30		25.06	291	0.15
74	11.13	33.483					240	75	10.70	33.49		25.67	233	0.21
85	10.26	33.489					225	100	9.78	33.58		25.90	211	0.27
95	9.78	33.560					212	125	9.77	33.85		26.11	191	0.32
118	9.80	33.781					196	150	9.23	33.91		26.25	178	0.37
133	9.72	33.901					186	200	8.53	34.04		26.46	158	0.45
154	9.12	33.917					176	250	8.05	34.11		26.59	146	0.53
182	8.76	34.005					164	300	7.62	34.15		26.68	137	0.60
205	8.48	34.051					156	400	6.84	34.21		26.84	122	0.74
245	8.10	34.099					147	500	5.97	34.24		26.98	109	0.86
298	7.64	34.152					137							
386	6.96	34.211					123							
470	6.23	34.233					112							
545	5.64	34.256					104							
ALEXANDER AGASSIZ; January 22, 1964; 0041 GCT; 34°38'N, 122°08'W; sounding, 2100 fm; wind, 220°, force 6; weather, showers; sea, high; wire angle, 47°.														76.67
1	13.32	33.258					297	0	(13.32)	(33.26)		(25.00)	(296)	(0.00)
8	13.28	33.254					296	10	13.26	33.26		25.01	295	0.03
26	13.12	33.370					285	20	13.16	33.34		25.10	287	0.06
46	13.08	33.389					282	30	13.11	33.38		25.14	284	0.09
53	13.08	33.443					278	50	13.08	33.42		25.17	280	0.14
67	12.42	33.465					264	75	10.74	33.47		25.65	235	0.21
77	10.53	33.470					231	100	10.29	33.76		25.96	206	0.26
87	10.34	33.616					217	125	9.87	33.89		26.13	189	0.31
108	10.20	33.832					199	150	9.37	34.02		26.31	172	0.36
121	9.95	33.875					192	200	8.57	34.11		26.51	153	0.44
142	9.51	33.988					176	250	8.33	34.14		26.57	147	0.52
166	9.08	34.066					164	300	7.90	34.16		26.65	140	0.59
186	8.70	34.093					156	400	6.68	34.20		26.85	121	0.73
220	8.46	34.125					150	500	(5.61)	(34.17)		(26.97)	(110)	(0.85)
264	8.25	34.145					146							
331	7.54	34.171					134							
399	6.69	34.199					121							
463	5.94	34.173					113							

	OBSERVED						COMPUTED	INTERPOLATED				COMPUTED		
Z	T	S	O_2	PO_4-P	SiO_3-Si	NO_2-N	δ_T	Z	T	S	O_2	σ_t	δ_T	ΔD
m	°C	‰	ml/L	µg at/L	µg at/L	µg at/L	cl/ton	m	°C	‰	ml/L	g/L	cl/ton	dyn m
76.70	ALEXANDER AGASSIZ; January 21, 1964; 2225 GCT; 34°32'N, 122°21'W; sounding, 2060 fm; wind, 210°, force 4; weather, cloudy; sea, high; wire angle, 38°.													
1	13.12	33.427	6.12	0.58	4	0.16	280	0	(13.12)	(33.43)	(6.12)	(25.17)	(280)	(0.00)
9	13.10	33.416	6.08	0.57	4	0.14	281	10	13.10	33.42	6.08	25.17	280	0.03
25	13.12	33.425	6.07	0.56	4	0.15	280	20	13.11	33.42	6.07	25.17	281	0.06
48	13.14	33.444	5.99	0.62	4	0.15	279	30	13.12	33.43	6.03	25.17	280	0.08
63	13.17	33.473	6.01	0.62	4	0.01	278	50	13.15	33.45	6.00	25.18	279	0.14
74	12.78	33.539	5.35	0.85	6	0.00	266	75	12.50	33.54	5.10	25.38	260	0.21
85	11.12	33.548	4.27	1.42	13	0.16	235	100	10.23	33.62	3.91	25.86	215	0.27
103	10.15	33.643	3.85	1.67	18	0.16	212	125	9.56	33.79	3.41	26.10	192	0.32
118	9.75	33.736	3.56	1.86	21	0.00	199	150	9.17	33.89	3.03	26.24	178	0.37
136	9.36	33.856	3.22	1.98	26	0.00	184	200	8.44	34.04	2.47	26.47	156	0.45
157	9.07	33.914	2.98	2.08	23	-	175	250	7.92	34.09	2.10	26.59	145	0.53
192	8.52	34.029	2.54	2.33	34	0.00	158	300	7.17	34.10	1.83	26.71	134	0.60
235	8.12	34.086	2.17	2.51	39	-	148	400	6.40	34.14	1.13	26.84	122	0.73
298	7.20	34.096	1.85	2.74	49	0.00	135	500	5.84	34.23	0.63	26.99	108	0.86
378	6.55	34.128	1.27	2.96	57	-	124	600	5.38	34.31	0.48	27.11	97	0.96
459	6.06	34.186	0.81	3.20	70	0.00	114	700	4.97	34.37	0.47	27.20	88	1.06
577	5.48	34.293	0.49	3.39	81	0.00	99	800	4.50	34.41	0.52	27.29	80	1.16
708	4.93	34.373	0.47	3.45	92	0.00	87	1000	(3.79)	(34.47)		(27.41)	(68)	(1.32)
843	4.38	34.431	0.56	3.42	103	0.00	77							
77.51	ALEXANDER AGASSIZ; January 20, 1964; 0404 GCT; 35°02'N, 120°56.5'W; sounding, 141 fm; wind, 200°, force 4; weather, drizzle; sea, very rough; wire angle, 16°.													
0	14.30	33.636	5.82	0.48	4	0.14	288	0	14.30	33.64	5.82	25.09	288	0.00
9	14.30	33.636	5.81	0.51	5	0.14	288	10	14.30	33.64	5.81	25.09	288	0.03
28	14.22	33.637	5.70	0.51	5	0.14	286	20	14.27	33.64	5.75	25.10	287	0.06
43	13.99	33.624	5.63	0.63	6	0.23	283	30	14.19	33.63	5.69	25.11	286	0.09
52	13.94	33.625	5.55	0.65	6	0.25	282	50	13.95	33.62	5.56	25.15	282	0.14
66	12.65	33.634	4.54	1.21	12	0.07	256	75	11.91	33.68	4.10	25.60	239	0.21
81	11.64	33.695	3.94	1.49	16	0.01	234	100	10.55	33.79	3.28	25.93	208	0.27
100	10.55	33.794	3.28	1.81	22	0.00	208	125	9.97	33.91	2.83	26.13	190	0.32
124	9.98	33.910	2.84	2.08	28	0.00	190	150	9.67	33.97	2.66	26.22	180	0.36
144	9.76	33.950	2.71	2.14	29	0.00	183	200	9.10	34.04	2.43	26.37	166	0.45
178	9.30	34.030	2.45	2.27	34	0.00	170	250	8.35	34.12	1.97	26.55	149	0.53
207	9.02	34.048	2.42	2.33	36	0.00	164							
252	8.32	34.122	1.95	2.61	44	0.01	149							
77.53	ALEXANDER AGASSIZ; January 20, 1964; 0619 GCT; 34°57.5'N, 121°04'W; sounding, 265 fm; wind, 160°, force 3; weather, cloudy; sea, missing; wire angle, 17°.													
0	13.78	33.638					278	0	13.78	33.64		25.20	277	0.00
9	13.75	33.634					277	10	13.74	33.63		25.20	277	0.03
28	13.61	33.633					275	20	13.67	33.63		25.22	276	0.06
43	13.56	33.629					274	30	13.60	33.63		25.23	275	0.08
52	12.68	33.634					257	50	12.90	33.63		25.37	261	0.14
66	11.44	33.687					231	75	11.09	33.73		25.79	221	0.20
80	10.98	33.745					218	100	10.52	33.83		25.97	204	0.25
95	10.66	33.802					209	125	9.93	33.91		26.13	189	0.30
118	10.06	33.897					192	150	9.69	33.96		26.21	181	0.35
137	9.80	33.930					185	200	9.35	34.05		26.34	169	0.44
165	9.68	33.972					180	250	8.83	34.12		26.48	156	0.52
192	9.45	34.029					173	300	8.23	34.14		26.59	146	0.60
220	9.04	34.095					161	400	7.27	34.20		26.77	128	0.74
257	8.78	34.128					155							
313	8.08	34.142					144							
365	7.58	34.176					134							
413	7.16	34.211					126							
462	6.72	34.224					119							

OBSERVED							COMPUTED	INTERPOLATED				COMPUTED		
Z	T	S	O_2	PO_4-P	SiO_3-Si	NO_2-N	δ_T	Z	T	S	O_2	σ_t	δ_T	ΔD
m	°C	‰	ml/L	µg at/L	µg at/L	µg at/L	cl/ton	m	°C	‰	ml/L	g/L	cl/ton	dyn m

ALEXANDER AGASSIZ; January 20, 1964; 1121 GCT; 34°53.5'N, 121°13.5'W; sounding, 302 fm; wind, 170°, force 4; weather, drizzle; sea, missing; wire angle, 22°. 77.55

0	13.38	33.623	6.14	0.49	4	0.06	271	0	13.38	33.62	6.14	25.27	271	0.00
9	13.36	33.615	6.14	0.48	4	0.05	271	10	13.36	33.62	6.14	25.27	271	0.03
29	13.33	33.620	6.01	0.53	4	0.05	270	20	13.34	33.62	6.07	25.28	270	0.05
52	11.23	33.633	4.10	1.43	16	0.05	231	30	13.33	33.62	6.00	25.28	270	0.08
61	10.96	33.647	4.06	1.49	16	0.01	225	50	11.28	33.63	4.12	25.68	232	0.13
70	10.92	33.646	4.01	1.51	17	0.01	225	75	10.80	33.65	3.96	25.78	222	0.19
82	10.19	33.765	3.53	1.74	23	0.00	204	100	9.87	33.94	2.82	26.17	186	0.24
96	9.91	33.929	2.88	2.05	28	0.00	187	125	9.57	33.99	2.53	26.26	177	0.29
118	9.68	33.972	2.61	2.14	31	0.00	180	150	9.37	34.05	2.34	26.34	170	0.33
136	9.41	34.019	2.44	2.23	34	0.00	173	200	8.82	34.12	2.06	26.48	156	0.41
158	9.34	34.067	2.28	-	-	-	168	250	8.54	34.17	1.72	26.56	148	0.49
184	8.98	34.106	2.11	-	-	-	160	300	8.33	34.20	1.47	26.62	143	0.57
209	8.75	34.128	2.02	-	-	-	155	400	7.36	34.19	1.14	26.75	130	0.71
245	8.56	34.17	1.77	-	-	-	149	500	6.25	34.22	0.74	26.93	114	0.84
298	8.34	34.202	1.48	-	-	-	143							
366	7.73	34.186	1.30	-	-	-	136							
436	6.96	34.191	0.96	-	-	-	125							
514	6.12	34.231	0.71	-	-	-	111							

ALEXANDER AGASSIZ; January 20, 1964; 1327 GCT; 34°48.5'N, 121°24'W; sounding, 270 fm; wind, 190°, force 5; weather, missing; sea, missing; wire angle, 23°. 77.58

0	13.52	33.610	6.04	0.51	3	0.06	275	0	13.52	33.61	6.04	25.23	275	0.00
9	13.50	33.605	6.03	0.49	3	0.06	275	10	13.50	33.61	6.03	25.24	274	0.03
28	13.50	33.614	5.96	0.51	3	0.06	274	20	13.50	33.61	5.99	25.24	274	0.05
42	13.37	33.613	5.75	0.62	4	0.08	271	30	13.49	33.61	5.93	25.24	274	0.08
51	12.86	33.613	5.31	0.86	7	0.13	262	50	12.92	33.61	5.36	25.35	263	0.14
64	11.33	33.628	4.12	1.42	14	0.06	233	75	10.71	33.68	3.84	25.82	219	0.20
78	10.65	33.687	3.81	1.63	18	0.02	217	100	10.26	33.75	3.53	25.95	206	0.25
92	10.46	33.718	3.65	1.70	19	0.01	212	125	9.51	33.87	3.16	26.17	185	0.30
114	9.82	33.825	3.28	1.89	24	0.00	193	150	9.11	33.94	2.93	26.29	174	0.35
133	9.35	33.897	3.08	2.01	28	0.00	181	200	8.39	34.08	2.23	26.51	153	0.43
160	8.98	33.983	2.79	-	-	-	169	250	8.14	34.14	1.73	26.60	145	0.51
186	8.58	34.072	2.30	-	-	-	156	300	7.48	34.19	1.17	26.73	132	0.58
214	8.28	34.085	2.16	-	-	-	151	400	6.66	34.23	0.63	26.88	118	0.71
250	8.14	34.144	1.73	-	-	-	144							
305	7.43	34.192	1.14	-	-	-	131							
357	7.29	34.200	1.10	-	-	-	129							
414	6.52	34.240	0.59	-	-	-	116							
472	6.28	34.247	0.63	-	-	-	112							

ALEXANDER AGASSIZ; January 20, 1964; 1530 GCT; 34°44'N, 121°34.5'W; sounding, 425 fm; wind, 180°, force 5; weather, cloudy; sea, high; wire angle, 24°. 77.60

0	13.61	33.628					275	0	(13.61)	(33.63)		(25.23)	(275)	(0.00)
9	13.59	33.626					275	10	13.59	33.63		25.23	274	0.03
32	13.60	33.632					274	20	13.59	33.63		25.23	274	0.05
59	11.98	33.609					246	30	13.60	33.63		25.23	275	0.08
67	10.82	33.678					221	50	13.50	33.63		25.25	273	0.14
84	9.84	33.783					197	75	10.32	33.75		25.94	207	0.20
98	9.66	33.840					190	100	9.63	33.85		26.14	189	0.25
111	9.42	33.903					181	125	9.25	33.94		26.27	176	0.29
136	9.19	33.950					174	150	9.15	33.96		26.30	173	0.34
153	9.14	33.958					173	200	8.68	34.13		26.51	153	0.42
179	8.77	34.054					160	250	8.10	34.12		26.59	146	0.50
209	8.65	34.137					152	300	7.67	34.16		26.68	137	0.57
235	8.28	34.116					149	400	6.87	34.24		26.86	120	0.70
279	7.82	34.135					141	500	6.13	34.26		26.97	109	0.83
336	7.40	34.215					129	600	(5.62)	(34.30)		(27.07)	(100)	(0.94)
426	6.66	34.241					117							
511	6.08	34.266					108							
585	5.70	34.298					101							

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OBSERVED							COMPUTED	INTERPOLATED				COMPUTED		
Z	T	S	O_2	PO_4-P	SiO_3-Si	NO_2-N	δ_T	Z	T	S	O_2	σ_t	δ_T	ΔD
m	°C	‰	ml/L	µg at/L	µg at/L	µg at/L	cl/ton	m	°C	‰	ml/L	g/L	cl/ton	dyn m

77.63 ALEXANDER AGASSIZ; January 20, 1964; 1838 GCT; 34°37'N, 121°48'W; sounding, 2060 fm; wind, 190°, force 6; weather, overcast; sea, high; wire angle, 26°.

1	13.19	33.468	279	0	(13.19)	(33.47)	(25.19)	(278)	(0.00)		
10	13.16	33.460	279	10	13.16	33.46	25.19	279	0.03		
33	13.16	33.465	278	20	13.16	33.46	25.19	279	0.06		
60	12.58	33.459	268	30	13.16	33.46	25.19	279	0.08		
69	12.26	33.603	251	50	13.09	33.46	25.20	277	0.14		
87	11.04	33.694	223	75	12.00	33.64	25.55	244	0.21		
101	10.51	33.736	211	100	10.58	33.73	25.88	213	0.26		
114	9.86	33.760	199	125	9.71	33.82	26.10	192	0.31		
143	9.22	33.903	178	150	9.11	33.94	26.29	174	0.36		
160	9.01	33.986	169	200	8.90	34.09	26.44	160	0.45		
189	8.98	34.082	161	250	8.01	34.13	26.61	144	0.52		
221	8.60	34.103	154	300	7.57	34.18	26.71	134	0.59		
249	8.02	34.128	144	400	6.72	34.24	26.88	118	0.73		
295	7.62	34.169	135	500	5.91	34.25	26.99	107	0.84		
356	7.08	34.227	124	600	5.34	34.32	27.12	95	0.95		
451	6.30	34.247	112								
537	5.65	34.258	104								
611	5.30	34.329	94								

77.67 ALEXANDER AGASSIZ; January 20, 1964; 2155 GCT; 34°30'N, 122°02'W; sounding, 2100 fm; wind, 180°, force 6; weather, overcast; sea, very high; wire angle, 37°.

1	13.43	33.496	281	0	(13.43)	(33.50)	(25.17)	(281)	(0.00)		
9	13.41	33.491	281	10	13.41	33.49	25.16	281	0.03		
29	13.38	33.507	279	20	13.40	33.50	25.17	280	0.06		
54	13.27	33.533	275	30	13.37	33.51	25.19	279	0.08		
62	13.41	33.598	273	50	13.28	33.52	25.21	277	0.14		
78	12.18	33.540	255	75	13.40	33.60	25.25	273	0.21		
90	10.62	33.623	221	100	10.33	33.75	25.94	207	0.27		
102	10.32	33.763	206	125	9.87	33.92	26.15	187	0.32		
127	9.84	33.924	186	150	9.37	34.03	26.32	171	0.36		
143	9.48	34.001	175	200	8.80	34.07	26.44	160	0.45		
167	9.17	34.059	166	250	8.21	34.14	26.59	146	0.53		
195	8.89	34.065	161	300	7.74	34.18	26.69	136	0.60		
220	8.50	34.079	154	400	6.50	34.18	26.86	120	0.73		
260	8.13	34.157	143	500	5.81	34.24	27.00	107	0.85		
314	7.58	34.182	134								
401	6.49	34.184	119								
483	5.88	34.225	109								
555	5.68	34.276	103								

77.70 ALEXANDER AGASSIZ; January 21, 1964; 1824 GCT; 34°24'N, 122°15'W; sounding, 2140 fm; wind, 240°, force 5; weather, partly cloudy; sea, high; wire angle, 08°.

0	13.46	33.505	281	0	13.46	33.50	25.16	281	0.00		
10	13.43	33.500	281	10	13.43	33.50	25.17	281	0.03		
35	13.45	33.520	280	20	13.44	33.51	25.17	280	0.06		
66	13.44	33.610	273	30	13.45	33.51	25.17	281	0.08		
75	12.32	33.545	257	50	13.45	33.56	25.21	277	0.14		
95	9.91	33.545	216	75	12.32	33.54	25.42	257	0.21		
109	9.79	33.676	204	100	9.85	33.58	25.89	212	0.27		
125	9.59	33.772	194	125	9.59	33.77	26.08	194	0.32		
155	9.02	33.977	170	150	9.11	33.95	26.30	173	0.36		
174	8.74	34.028	162	200	8.52	34.07	26.49	155	0.45		
204	8.48	34.076	154	250	7.55	34.06	26.62	142	0.52		
239	7.78	34.062	145	300	7.22	34.12	26.72	134	0.60		
268	7.28	34.055	139	400	6.03	34.12	26.88	118	0.73		
319	7.18	34.153	131	500	5.64	34.21	27.00	107	0.85		
383	6.16	34.113	121	600	5.11	34.27	27.11	97	0.95		
482	5.72	34.198	109								
571	5.28	34.256	100								
646	4.85	34.286	93								

OBSERVED							COMPUTED	INTERPOLATED				COMPUTED		
Z	T	S	O_2	PO_4-P	SiO_3-Si	NO_2-N	δ_T	Z	T	S	O_2	σ_t	δ_T	ΔD
m	°C	‰	ml/L	µg at/L	µg at/L	µg at/L	cl/ton	m	°C	‰	ml/L	g/L	cl/ton	dyn m
ALEXANDER AGASSIZ; January 19, 1964; 1806 GCT; 34°52'N, 120°51'W; sounding, 93 fm; wind, 140°, force 3; weather, cloudy; sea, high; wire angle, 06°.														78.51A
0	14.16	33.636					285	0	14.16	33.64		25.12	285	0.00
10	14.11	33.632					285	10	14.11	33.63		25.13	285	0.03
20	14.06	33.633					283	20	14.06	33.63		25.14	284	0.06
40	13.08	33.628					265	30	13.82	33.63		25.19	279	0.09
50	12.60	33.643					255	50	12.60	33.64		25.44	255	0.14
65	11.77	33.685					237	75	11.52	33.71		25.70	230	0.20
80	11.39	33.721					227	100	10.54	33.81		25.95	206	0.25
95	10.71	33.796					210	125	10.11	33.87		26.07	195	0.31
115	10.22	33.856					198	150	9.78	33.93		26.17	185	0.35
140	9.95	33.897					190							
165	9.49	33.990					176							
ALEXANDER AGASSIZ; January 19, 1964; 1558 GCT; 34°46.5'N, 121°02.5'W; sounding, 231 fm; wind, 310°, force 3; weather, cloudy; sea, high; wire angle, 06°.														78.54A
0	13.76	33.643					277	0	13.76	33.64		25.21	277	0.00
10	13.79	33.637					278	10	13.79	33.64		25.20	278	0.03
20	13.80	33.643					278	20	13.80	33.64		25.20	278	0.06
40	13.70	33.637					276	30	13.76	33.64		25.21	277	0.08
54	13.60	33.636					274	50	13.64	33.64		25.23	275	0.14
64	13.16	33.628					266	75	12.00	33.65		25.56	243	0.20
79	11.66	33.667					236	100	10.80	33.75		25.86	215	0.26
94	11.10	33.727					222	125	10.45	33.85		26.00	202	0.31
109	10.74	33.790					211	150	10.05	33.92		26.12	190	0.36
134	10.28	33.881					197	200	9.49	34.01		26.28	175	0.46
154	10.00	33.930					189	250	8.84	34.07		26.44	160	0.54
183	9.70	33.981					180	300	8.17	34.15		26.60	144	0.62
213	9.31	34.037					170	400	7.03	34.21		26.81	124	0.76
248	8.88	34.067					161							
304	8.11	34.153					143							
358	7.53	34.182					133							
417	6.82	34.235					120							
ALEXANDER AGASSIZ; January 19, 1964; 1232 GCT; 34°40.5'N, 121°15'W; sounding, 375 fm; wind, 310°, force 4; weather, clear; sea, very rough; wire angle, 14°.														78.57A
1	13.50	33.618					274	0	(13.50)	(33.62)		(25.24)	(273)	(0.00)
10	13.47	33.610					274	10	13.47	33.61		25.24	274	0.03
30	13.49	33.616					274	20	13.48	33.61		25.24	274	0.05
59	12.99	33.618					264	30	13.49	33.62		25.25	273	0.08
69	11.60	33.633					237	50	13.49	33.62		25.25	273	0.14
85	10.84	33.689					220	75	11.10	33.64		25.72	228	0.20
99	10.49	33.702					213	100	10.48	33.70		25.88	213	0.26
114	10.04	33.781					200	125	9.67	33.87		26.15	188	0.31
138	9.50	33.928					181	150	9.18	33.95		26.29	174	0.35
158	9.05	33.959					172	200	8.84	34.06		26.43	161	0.44
187	8.97	34.046					164	250	8.17	34.09		26.56	149	0.52
216	8.62	34.068					157	300	7.78	34.14		26.65	140	0.59
246	8.21	34.090					149	400	7.07	34.24		26.83	123	0.73
295	7.82	34.127					141	500	6.12	34.28		26.99	108	0.85
350	7.43	34.232					128	600	5.43	34.33		27.12	96	0.96
433	6.79	34.249					118							
517	5.97	34.288					105							
602	5.42	34.331					96							

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OBSERVED							COMPUTED	INTERPOLATED				COMPUTED		
Z	T	S	O_2	PO_4-P	SiO_3-Si	NO_2-N	δ_T	Z	T	S	O_2	σ_t	δ_T	ΔD
m	°C	‰	ml/L	µg at/L	µg at/L	µg at/L	cl/ton	m	°C	‰	ml/L	g/L	cl/ton	dyn m

78.60A ALEXANDER AGASSIZ; January 19, 1964; 0837 GCT; 34°35'N, 121°25.5'W; sounding, 865 fm; wind, 280°, force 3; weather, clear; sea, very rough; wire angle, 20°.

1	13.42	33.609					273	0	(13.42)	(33.61)	(25.25)	(273)	(0.00)
10	13.41	33.612					272	10	13.41	33.61	25.25	272	0.03
29	13.42	33.607					273	20	13.42	33.61	25.25	273	0.05
56	10.89	33.554					231	30	13.42	33.61	25.25	273	0.08
65	10.48	33.616					220	50	13.40	33.61	25.26	272	0.14
80	9.86	33.687					204	75	10.20	33.66	25.89	212	0.20
94	9.56	33.795					192	100	9.42	33.84	26.16	186	0.25
107	9.28	33.879					181	125	9.14	33.92	26.27	176	0.29
130	9.10	33.930					174	150	8.88	33.99	26.37	167	0.34
148	8.90	33.982					168	200	8.48	34.10	26.52	153	0.42
177	8.65	34.028					160	250	8.07	34.14	26.61	144	0.49
204	8.46	34.103					152	300	7.73	34.21	26.71	134	0.57
231	8.15	34.113					147	400	6.66	34.21	26.86	120	0.70
277	7.97	34.193					138	500	6.09	34.27	26.99	108	0.82
329	7.35	34.213					128						
409	6.60	34.213					119						
491	6.13	34.266					109						
574	5.66	34.301					101						

78.63A ALEXANDER AGASSIZ; January 19, 1964; 0617 GCT; 34°27.5'N, 121°41'W; sounding, 1935 fm; wind, 280°, force 4; weather, clear; sea, very rough; wire angle, 20°.

1	13.66	33.632					276	0	(13.66)	(33.63)	(25.22)	(276)	(0.00)
10	13.64	33.629					275	10	13.64	33.63	25.22	275	0.03
29	13.61	33.632					275	20	13.63	33.63	25.23	275	0.06
57	11.55	33.638					236	30	13.61	33.63	25.23	275	0.08
66	11.02	33.683					224	50	12.50	33.63	25.45	254	0.14
80	10.32	33.701					211	75	10.57	33.70	25.86	215	0.19
93	9.88	33.726					202	100	9.71	33.76	26.05	197	0.25
107	9.58	33.812					191	125	9.29	33.89	26.22	180	0.29
130	9.20	33.912					177	150	8.81	33.99	26.38	166	0.34
148	8.84	33.990					166	200	8.32	34.08	26.52	152	0.42
175	8.49	34.041					157	250	7.87	34.14	26.64	141	0.49
204	8.28	34.088					151	300	7.60	34.17	26.70	135	0.57
231	8.02	34.124					144	400	6.89	34.25	26.86	120	0.70
277	7.72	34.152					138	500	6.05	34.30	27.01	105	0.82
328	7.42	34.194					131						
408	6.82	34.259					118						
489	6.14	34.296					107						
573	5.56	34.307					99						

78.67A ALEXANDER AGASSIZ; January 19, 1964; 0348 GCT; 34°21'N, 121°55'W; sounding, 2020 fm; wind, 320°, force 4; weather, partly cloudy; sea, missing; wire angle, 19°.

0	13.64	33.624					276	0	13.64	33.62	25.22	276	0.00
10	13.62	33.620					276	10	13.62	33.62	25.22	276	0.03
43	13.65	33.620					276	20	13.63	33.62	25.22	276	0.06
70	13.36	33.612					271	30	13.64	33.62	25.22	276	0.08
89	11.10	33.529					236	50	13.50	33.62	25.24	273	0.14
103	10.32	33.617					217	75	12.82	33.59	25.36	263	0.21
116	9.85	33.743					200	100	10.39	33.60	25.81	219	0.27
135	9.42	33.843					186	125	9.61	33.80	26.10	192	0.32
153	9.10	33.918					175	150	9.16	33.91	26.26	177	0.36
181	8.59	34.015					161	200	8.39	34.08	26.51	153	0.45
203	8.36	34.088					152	250	7.89	34.12	26.62	143	0.52
226	8.19	34.122					147	300	7.00	34.10	26.73	132	0.60
258	7.74	34.112					141	400	6.13	34.17	26.90	116	0.72
295	7.06	34.093					133	500	5.83	34.28	27.03	104	0.84
341	6.73	34.155					125						
406	6.09	34.175					115						
487	5.86	34.267					105						
570	5.58	34.329					98						

OBSERVED							COMPUTED	INTERPOLATED				COMPUTED		
Z	T	S	O_2	PO_4-P	SiO_3-Si	NO_2-N	δ_T	Z	T	S	O_2	σ_t	δ_T	ΔD
m	°C	‰	ml/L	µg at/L	µg at/L	µg at/L	cl/ton	m	°C	‰	ml/L	g/L	cl/ton	dyn m
ALEXANDER AGASSIZ; January 19, 1964; 0126 GCT; 34°14.5'N, 122°09'W; sounding, 2020 fm; wind, 320°, force 4; weather, cloudy; sea, high; wire angle, 23°.														78.70A
1	13.41	33.394					288	0	(13.41)	(33.39)		(25.09)	(289)	(0.00)
10	13.40	33.387					289	10	13.40	33.39		25.09	288	0.03
42	13.40	33.409					287	20	13.40	33.39		25.09	288	0.06
70	13.22	33.420					283	30	13.40	33.40		25.09	288	0.09
88	10.42	33.478					229	50	13.38	33.42		25.11	286	0.14
101	9.52	33.623					204	75	13.00	33.42		25.19	279	0.22
116	9.20	33.774					188	100	9.62	33.59		25.94	208	0.28
134	8.83	33.875					174	125	8.99	33.83		26.22	180	0.33
152	8.81	33.961					168	150	8.81	33.95		26.35	169	0.37
179	8.35	33.989					159	200	8.37	34.07		26.51	153	0.45
201	8.37	34.066					154	250	7.77	34.12		26.64	141	0.53
224	7.99	34.074					148	300	7.02	34.12		26.74	131	0.60
256	7.72	34.121					140	400	5.97	34.14		26.90	116	0.73
293	7.16	34.126					132	500	5.61	34.28		27.05	102	0.84
338	6.42	34.108					124							
401	5.96	34.148					116							
481	5.70	34.258					104							
564	5.38	34.314					96							
ALEXANDER AGASSIZ; January 18, 1964; 0101 GCT; 34°41'N, 120°50.5'W; sounding, 82 fm; wind, 320°, force 4; weather, cloudy; sea, very rough; wire angle, 13°.														78.53B
0	13.58	33.626	-	0.71	7	0.18	275	0	13.58	33.63		25.24	274	0.00
9	13.58	33.620	5.71	0.71	6	0.18	275	10	13.58	33.62	5.70	25.23	275	0.03
29	13.48	33.623	5.52	0.76	6	0.21	273	20	13.55	33.62	5.62	25.23	274	0.05
38	13.38	33.625	5.40	0.81	7	0.24	271	30	13.47	33.62	5.50	25.25	273	0.08
53	12.72	33.652	4.87	1.13	12	0.26	256	50	12.75	33.64	4.95	25.41	258	0.14
68	11.94	33.706	4.12	1.42	16	0.14	238	75	11.80	33.71	4.03	25.65	235	0.20
83	11.38	33.721	3.78	1.53	17	0.00	227	100	10.80	33.79	3.38	25.89	212	0.25
102	10.77	33.792	3.36	1.77	22	0.01	211	125	10.15	33.89	2.92	26.08	194	0.31
127	10.14	33.888	2.90	2.01	27	0.00	194	150	9.73	33.95	2.62	26.20	183	0.35
152	9.70	33.958	2.60	2.20	32	0.01	182							
ALEXANDER AGASSIZ; January 18, 1964; 0541 GCT; 34°37.5'N, 120°59.5'W; sounding, 303 fm; wind, 280°, force 4; weather, missing; sea, moderate; wire angle, 13°.														78.55B
0	13.82	33.647					278	0	13.82	33.65		25.20	277	0.00
10	13.82	33.645					278	10	13.82	33.64		25.19	278	0.03
29	13.53	33.636					273	20	13.60	33.64		25.24	274	0.06
49	13.42	33.626					271	30	13.53	33.64		25.25	273	0.08
63	12.31	33.648					249	50	13.40	33.63		25.27	271	0.14
78	11.32	33.714					227	75	11.47	33.70		25.70	230	0.20
98	10.65	33.809					208	100	10.63	33.81		25.94	208	0.26
118	10.42	33.859					201	125	10.33	33.88		26.04	198	0.31
138	10.10	33.921					191	150	9.92	33.95		26.17	186	0.36
158	9.83	33.972					183	200	9.50	34.06		26.32	171	0.45
182	9.69	34.015					177	250	8.71	34.12		26.50	155	0.53
222	9.18	34.099					163	300	7.97	34.14		26.62	142	0.61
271	8.38	34.126					149	400	7.21	34.19		26.77	128	0.75
311	7.82	34.148					140	500	6.53	34.24		26.91	116	0.88
350	7.51	34.180					133							
399	7.22	34.193					128							
444	6.95	34.223					122							
505	6.50	34.240					115							

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	OBSERVED							COMPUTED	INTERPOLATED				COMPUTED		
	Z	T	S	O_2	PO_4-P	SiO_3-Si	NO_2-N	δ_T	Z	T	S	O_2	σ_t	δ_T	ΔD
	m	°C	‰	ml/L	µg at/L	µg at/L	µg at/L	cl/ton	m	°C	‰	ml/L	g/L	cl/ton	dyn m
78.58B	ALEXANDER AGASSIZ; January 18, 1964; 0759 GCT; 34°31.5'N, 121°11'W; sounding, 520 fm; wind, 330°, force 3; weather, drizzle; sea, moderate; wire angle, 12°.														
	0	13.54	33.614	5.96	0.54	4	0.07	275	0	13.54	33.61	5.96	25.23	275	0.00
	10	13.54	33.605	5.92	0.53	3	0.05	275	10	13.54	33.60	5.92	25.22	276	0.03
	39	13.38	33.616	5.97	0.58	4	0.06	271	20	13.50	33.61	5.93	25.24	274	0.06
	59	12.50	33.603	5.00	0.98	9	0.14	256	30	13.43	33.61	5.96	25.25	273	0.08
	83	11.04	33.698	3.88	1.58	17	0.01	223	50	13.33	33.61	5.93	25.27	271	0.14
	108	10.22	33.767	3.49	1.80	22	0.00	204	75	11.40	33.67	4.08	25.69	231	0.20
	138	9.90	33.929	2.84	2.06	27	0.00	187	100	10.44	33.74	3.64	25.91	210	0.26
	179	9.16	34.030	2.51	2.25	34	0.00	168	125	10.03	33.86	3.07	26.08	194	0.31
	228	8.48	34.131	1.91	2.51	42	-	150	150	9.70	33.96	2.75	26.21	182	0.35
	277	7.72	34.122	1.78	2.63	48	0.00	140	200	8.87	34.08	2.22	26.44	160	0.44
	328	7.40	34.175	1.32	2.84	55	-	132	250	8.13	34.12	1.86	26.58	146	0.52
	377	7.10	34.221	0.99	2.98	61	0.00	124	300	7.56	34.14	1.60	26.68	137	0.59
	426	6.78	34.247	0.81	3.08	66	-	118	400	6.97	34.24	0.88	26.85	121	0.73
	476	6.42	34.250	0.74	3.15	72	0.00	114	500	6.20	34.26	0.67	26.96	110	0.85
	546	5.82	34.280	0.51	3.25	82	-	104	600	5.54	34.30	0.42	27.08	99	0.96
	645	5.35	34.334	0.40	3.42	90	0.00	95	700	5.07	34.36	0.42	27.18	89	1.06
	744	4.86	34.382	0.46	3.39	101	0.00	86	800	4.65	34.40	0.49	27.26	82	1.16
	844	4.51	34.407	0.52	3.42	110	0.01	80							
	894	4.34	34.429	0.58	3.48	111	0.00	77							
	944	4.16	34.445	0.63	3.43	117	0.00	73							
78.60B	ALEXANDER AGASSIZ; January 18, 1964; 1030 GCT; 34°26'N, 121°21'W; sounding, 1400 fm; wind, 260°, force 3; weather, partly cloudy; sea, moderate; wire angle, 13°.														
	0	13.54	33.607					275	0	13.54	33.61		25.23	275	0.00
	10	13.52	33.604					275	10	13.52	33.60		25.22	275	0.03
	29	13.52	33.607					275	20	13.52	33.61		25.23	275	0.06
	59	12.94	33.569					266	30	13.52	33.61		25.23	275	0.08
	68	11.39	33.575					238	50	13.40	33.60		25.25	273	0.14
	83	10.76	33.64					222	75	10.98	33.60		25.71	229	0.20
	97	10.52	33.763					209	100	10.40	33.76		25.94	208	0.26
	113	10.00	33.752					202	125	9.74	33.82		26.10	193	0.31
	137	9.50	33.899					183	150	9.27	33.93		26.26	177	0.35
	157	9.16	33.943					174	200	8.62	34.04		26.45	159	0.44
	186	8.74	34.006					163	250	8.17	34.17		26.62	143	0.52
	215	8.50	34.075					155	300	7.76	34.21		26.71	134	0.59
	245	8.21	34.162					144	400	6.84	34.24		26.86	120	0.72
	294	7.83	34.20					136	500	6.13	34.28		26.99	108	0.84
	347	7.23	34.229					126	600	(5.47)	(34.31)		(27.09)	(98)	(0.95)
	431	6.62	34.241					117							
	515	6.02	34.293					105							
	599	5.48	34.311					98							
78.64B	ALEXANDER AGASSIZ; January 18, 1964; 1307 GCT; 34°18.5'N, 121°35.5'W; sounding, 1935 fm; wind, 240°, force 4; weather, partly cloudy; sea, high; wire angle, 27°.														
	0	13.50	33.620	6.11	0.62	4	0.13	273	0	13.50	33.62	6.11	25.24	273	0.00
	9	13.50	33.610	6.02	0.59	4	0.12	274	10	13.50	33.61	6.02	25.24	274	0.03
	27	13.46	33.614	6.05	0.61	5	0.12	273	20	13.49	33.61	6.03	25.24	274	0.05
	52	13.22	33.598	5.65	0.72	6	0.16	270	30	13.44	33.61	6.04	25.25	273	0.08
	71	11.40	33.662	3.99	1.51	15	0.02	232	50	13.25	33.60	5.71	25.28	270	0.14
	85	10.40	33.63	3.99	1.63	19	0.00	217	75	11.29	33.66	3.99	25.70	230	0.20
	98	10.02	33.696	3.80	1.76	20	-	206	100	9.99	33.70	3.78	25.96	205	0.25
	119	9.59	33.797	3.49	1.90	24	0.00	192	125	9.45	33.83	3.40	26.15	187	0.30
	137	9.20	33.892	3.21	2.03	28	-	179	150	9.07	33.93	2.97	26.29	174	0.35
	158	9.01	33.963	2.81	2.19	32	0.00	171	200	8.65	34.09	2.28	26.48	156	0.43
	183	8.80	34.044	2.52	2.34	35	-	161	250	8.05	34.14	1.80	26.61	143	0.51
	226	8.36	34.135	1.95	2.59	42	0.00	148	300	7.46	34.16	1.45	26.71	134	0.58
	278	7.70	34.151	1.60	2.76	51	-	138	400	6.65	34.24	0.86	26.89	117	0.71
	355	6.96	34.198	1.09	3.00	61	0.00	124	500	6.00	34.28	0.65	27.01	106	0.83
	450	6.32	34.273	0.71	3.21	74	-	111	600	5.38	34.32	0.57	27.11	96	0.94
	547	5.70	34.296	0.61	3.35	84	0.00	101	700	4.86	34.37	0.50	27.21	86	1.04
	691	4.90	34.367	0.50	3.39	100	0.00	87	800	4.50	34.41	0.61	27.29	80	1.13
	849	4.34	34.421	0.67	3.43	110	0.02	77	1000	3.83	34.46	0.78	27.40	69	1.29
	1001	3.83	34.459	0.78	3.43	125	0.00	69							
	1080	3.66	34.485	0.84	3.40	125	0.00	66							

OBSERVED							COMPUTED	INTERPOLATED				COMPUTED		
Z	T	S	O_2	PO_4-P	SiO_3-Si	NO_2-N	δ_T	Z	T	S	O_2	σ_t	δ_T	ΔD
m	°C	‰	ml/L	µg at/L	µg at/L	µg at/L	cl/ton	m	°C	‰	ml/L	g/L	cl/ton	dyn m

ALEXANDER AGASSIZ; January 18, 1964; 1555 GCT; 34°12.5'N, 121°49'W; sounding, 1990 fm; wind, 320°, force 4; weather, cloudy; sea, high; wire angle, 22°. 78.67B

0	13.53	33.589					276	0	13.53	33.59		25.22	276	0.00
9	13.52	33.583					277	10	13.52	33.58		25.21	277	0.03
28	13.52	33.586					276	20	13.52	33.58		25.21	277	0.06
55	13.43	33.580					275	30	13.50	33.58		25.21	276	0.08
64	12.62	33.567					261	50	13.45	33.58		25.22	275	0.14
78	10.56	33.545					226	75	10.70	33.54		25.71	229	0.20
92	10.12	33.626					213	100	9.93	33.69		25.96	205	0.26
106	9.82	33.722					201	125	9.39	33.86		26.18	184	0.31
129	9.30	33.877					181	150	8.95	33.94		26.32	171	0.35
147	8.98	33.939					172	200	8.49	34.03		26.46	158	0.43
175	8.74	33.991					165	250	7.70	34.07		26.61	144	0.51
203	8.44	34.037					157	300	7.12	34.11		26.72	133	0.58
230	8.09	34.070					149	400	6.16	34.19		26.91	115	0.71
276	7.24	34.066					138	500	5.72	34.29		27.05	102	0.83
328	6.97	34.155					128							
407	6.10	34.193					114							
489	5.76	34.276					104							
573	5.47	34.338					96							

ALEXANDER AGASSIZ; January 18, 1964; 1815 GCT; 34°06'N, 122°03'W; sounding, 2040 fm; wind, 340°, force 5; weather, cloudy; sea, high; wire angle, 27°. 78.70B

0	13.37	33.359					290	0	13.37	33.36		25.07	290	0.00
9	13.36	33.362					290	10	13.36	33.36		25.07	290	0.03
44	13.36	33.394					287	20	13.36	33.37		25.08	289	0.06
75	12.92	33.466					274	30	13.36	33.38		25.09	288	0.09
92	10.09	33.425					227	50	13.36	33.39		25.10	288	0.14
106	9.51	33.574					207	75	12.92	33.47		25.24	273	0.22
123	9.26	33.721					192	100	9.96	33.46		25.78	223	0.28
140	9.08	33.794					184	125	9.24	33.73		26.11	191	0.33
158	8.90	33.907					173	150	9.00	33.87		26.25	177	0.38
184	8.59	33.961					165	200	8.43	34.02		26.46	158	0.46
210	8.30	34.044					154	250	7.52	34.04		26.61	144	0.54
233	7.80	34.033					148	300	7.19	34.07		26.68	137	0.61
263	7.36	34.041					141	400	6.16	34.15		26.88	118	0.74
303	7.16	34.070					136	500	5.78	34.28		27.03	104	0.86
352	6.73	34.117					127	600	(5.46)	(34.34)		(27.12)	(95)	(0.97)
428	5.89	34.164					114							
510	5.76	34.293					102							
583	5.52	34.334					96							

ALEXANDER AGASSIZ; January 18, 1964; 2213 GCT; 33°57'N, 122°20'W; sounding, 2060 fm; wind, 330°, force 4; weather, cloudy; sea, very rough; wire angle, 19°. 78.74B

0	13.53	33.356	6.03	0.43	3	0.06	293	0	13.53	33.36	6.03	25.04	293	0.00
9	13.50	33.356	6.13	0.43	3	0.05	293	10	13.50	33.36	6.13	25.04	293	0.03
33	13.60	33.478	6.02	0.49	4	0.08	286	20	13.50	33.36	6.12	25.04	293	0.06
62	12.29	33.342	5.34	0.86	6	0.06	271	30	13.59	33.46	6.05	25.10	287	0.09
84	10.24	33.420	4.62	1.45	15	0.00	230	50	13.60	33.48	6.01	25.12	286	0.15
100	9.80	33.529	4.25	1.66	20	0.00	215	75	11.00	33.38	4.92	25.54	246	0.21
113	9.38	33.563	4.30	1.66	21	-	206	100	9.80	33.53	4.25	25.86	215	0.27
141	8.91	33.773	3.64	1.95	27	0.00	183	125	9.10	33.64	4.12	26.06	196	0.32
159	8.90	33.861	3.23	2.04	30	-	177	150	8.90	33.82	3.45	26.23	180	0.37
182	8.80	33.968	2.86	2.21	33	0.00	167	200	8.56	34.00	2.91	26.43	161	0.46
213	8.36	34.012	2.93	2.23	37	-	157	250	7.85	34.05	2.55	26.57	147	0.54
270	7.58	34.073	2.17	2.56	46	0.00	142	300	7.19	34.09	1.85	26.70	135	0.61
324	6.90	34.106	1.62	2.80	56	-	130	400	6.05	34.12		26.87	119	0.74
407	5.98	34.128	-	3.09	71	0.00	117	500	5.24	34.18		27.02	105	0.86
526	5.10	34.214	0.60	3.33	89	-	101	600	4.93	34.27	0.46	27.13	95	0.96
632	4.88	34.291	0.40	3.44	98	0.00	93	700	4.73	34.36	0.42	27.22	86	1.06
785	4.49	34.420	0.51	3.47	108	0.00	79	800	4.44	34.42	0.54	27.30	78	1.15
945	3.96	34.465	0.72	3.43	119	0.02	70	1000	3.81	34.48	0.80	27.41	67	1.31
1143	3.50	34.510	0.94	3.38	128	0.00	62	1200	3.39	34.52	0.94	27.49	60	1.46
1221	3.33	34.518	0.94	3.36	133	0.00	60							

SIO

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	OBSERVED						COMPUTED	INTERPOLATED				COMPUTED		
	Z	T	S	O_2	PO_4-P	SiO_3-Si	NO_2-N	δ_T	Z	T	S	O_2	σ_t	δ_T	ΔD
	m	°C	‰	ml/L	µg at/L	µg at/L	µg at/L	cl/ton	m	°C	‰	ml/L	g/L	cl/ton	dyn m
79.53	ALEXANDER AGASSIZ; January 17, 1964; 1952 GCT; 34°31.5'N, 120°45'W; sounding, 98 fm; wind, 360°, force 2; weather, drizzle; sea, missing; wire angle, 00°.														
	0	13.82	33.627				279	0	13.82	33.63		25.19	279	0.00
	10	13.73	33.623				278	10	13.73	33.62		25.20	278	0.03
	25	13.72	33.625				277	20	13.72	33.62		25.20	278	0.06
	45	12.83	33.616				261	30	13.60	33.62		25.22	275	0.08
	55	12.65	33.628				257	50	12.75	33.62		25.39	259	0.14
	70	12.27	33.638				249	75	12.10	33.64		25.53	246	0.20
	85	11.76	33.681				237	100	11.50	33.72		25.71	229	0.26
	100	11.50	33.716				230	125	11.27	33.75		25.77	223	0.32
	120	11.34	33.737				225	150	10.49	33.83		25.98	204	0.37
	145	10.68	33.805				209							
	171	9.72	33.952				182							
79.55	ALEXANDER AGASSIZ; January 17, 1964; 1756 GCT; 34°28.5'N, 120°51.5'W; sounding, 320 fm; wind, 340°, force 2; weather, cloudy; sea, rough; wire angle, 02°.														
	0	14.25	33.642				287	0	14.25	33.64		25.10	287	0.00
	10	14.20	33.641				286	10	14.20	33.64		25.12	286	0.03
	30	13.84	33.624				280	20	14.08	33.63		25.13	284	0.06
	40	13.07	33.617				265	30	13.84	33.62		25.17	280	0.09
	50	12.31	33.643				249	50	12.31	33.64		25.49	250	0.14
	65	11.66	33.687				234	75	11.15	33.75		25.80	221	0.20
	80	10.97	33.771				216	100	10.60	33.81		25.94	207	0.25
	100	10.60	33.814				207	125	10.28	33.87		26.04	198	0.30
	125	10.28	33.872				197	150	9.85	33.93		26.16	186	0.35
	145	9.89	33.922				187	200	9.45	34.01		26.29	174	0.44
	175	9.72	33.956				182	250	9.01	34.10		26.43	160	0.53
	205	9.40	34.028				172	300	8.36	34.16		26.58	146	0.61
	235	9.18	34.074				165	400	7.25	34.18		26.76	129	0.75
	275	8.68	34.151				152	500	6.51	34.26		26.92	114	0.88
	336	7.98	34.172				140							
	411	7.15	34.191				127							
	485	6.63	34.251				116							
	566	5.94	34.285				105							
79.58	ALEXANDER AGASSIZ; January 17, 1964; 1503 GCT; 34°22.5'N, 121°04'W; sounding, 665 fm; wind, 340°, force 4; weather, drizzle; sea, moderate; wire angle, 08°.														
	0	13.66	33.623				276	0	13.66	33.62		25.21	277	0.00
	10	13.64	33.619				276	10	13.64	33.62		25.22	276	0.03
	30	13.62	33.623				276	20	13.63	33.62		25.22	276	0.06
	60	11.99	33.654				243	30	13.62	33.62		25.22	276	0.08
	70	11.44	33.696				230	50	13.00	33.63		25.35	263	0.14
	85	10.71	33.804				210	75	11.40	33.72		25.73	227	0.20
	99	10.19	33.908				193	100	10.16	33.92		26.10	192	0.25
	114	9.89	33.957				185	125	9.76	33.99		26.22	180	0.30
	138	9.61	34.029				175	150	9.48	34.06		26.33	171	0.34
	158	9.37	34.077				168	200	8.88	34.11		26.46	158	0.43
	189	9.07	34.104				161	250	8.34	34.18		26.60	145	0.50
	219	8.57	34.122				152	300	8.02	34.22		26.68	137	0.58
	249	8.34	34.174				145	400	7.03	34.22		26.82	124	0.71
	298	8.04	34.219				137	500	6.50	34.27		26.93	113	0.84
	353	7.32	34.198				129	600	5.69	34.31		27.07	100	0.95
	438	6.84	34.244				119							
	522	6.37	34.273				111							
	608	5.62	34.310				99							

OBSERVED							COMPUTED	INTERPOLATED				COMPUTED		
Z	T	S	O_2	PO_4-P	SiO_3-Si	NO_2-N	δ_T	Z	T	S	O_2	σ_t	δ_T	ΔD
m	°C	‰	ml/L	µg at/L	µg at/L	µg at/L	cl/ton	m	°C	‰	ml/L	g/L	cl/ton	dyn m
ALEXANDER AGASSIZ; January 17, 1964; 1303 GCT; 34°17.5'N, 121°14.5'W; sounding, 1020 fm; wind, 340°, force 4; weather, drizzle; sea, missing; wire angle, 10°.														79.60
0	13.56	33.609					275	0	13.56	33.61		25.22	275	0.00
9	13.55	33.606					275	10	13.55	33.61		25.23	275	0.03
29	13.46	33.616					273	20	13.50	33.61		25.24	274	0.06
59	11.10	33.656					227	30	13.45	33.62		25.25	272	0.08
68	10.86	33.697					220	50	13.00	33.63		25.35	263	0.14
84	10.14	33.783					202	75	10.59	33.73		25.88	213	0.20
99	9.82	33.848					192	100	9.79	33.86		26.12	190	0.25
114	9.39	33.894					182	125	9.25	33.95		26.28	175	0.29
138	9.10	34.012					168	150	8.93	34.05		26.41	163	0.34
158	8.82	34.075					159	200	8.34	34.15		26.58	147	0.42
187	8.53	34.131					151	250	7.73	34.14		26.66	139	0.49
216	8.10	34.151					143	300	7.36	34.19		26.75	130	0.56
245	7.78	34.143					139	400	6.60	34.24		26.90	117	0.69
293	7.42	34.181					132	500	6.03	34.26		26.99	108	0.81
347	6.92	34.210					123	600	5.66	34.31		27.07	100	0.92
431	6.43	34.248					114							
515	5.96	34.267					107							
600	5.66	34.307					100							
ALEXANDER AGASSIZ; January 17, 1964; 1014 GCT; 34°10.5'N, 121°29'W; sounding, 1850 fm; wind, 330°, force 3; weather, partly cloudy; sea, moderate; wire angle, 19°.														79.63
0	13.38	33.604					272	0	13.38	33.60		25.25	273	0.00
9	13.36	33.603					272	10	13.36	33.60		25.26	272	0.03
28	13.28	33.605					270	20	13.32	33.60		25.27	271	0.05
56	12.48	33.545					260	30	13.27	33.60		25.28	270	0.08
66	10.42	33.471					229	50	13.14	33.60		25.30	268	0.14
80	10.07	33.616					213	75	10.18	33.57		25.83	218	0.20
95	9.78	33.723					200	100	9.69	33.75		26.05	197	0.25
109	9.56	33.790					192	125	9.31	33.85		26.19	184	0.30
131	9.24	33.874					181	150	8.98	33.94		26.31	172	0.34
150	8.98	33.941					172	200	8.30	34.06		26.51	153	0.43
178	8.66	34.004					162	250	7.79	34.08		26.60	144	0.50
207	8.22	34.062					152	300	7.35	34.16		26.73	132	0.57
235	7.90	34.066					147	400	6.54	34.22		26.89	117	0.70
283	7.52	34.148					135	500	5.94	34.28		27.01	105	0.82
335	7.00	34.175					127	600	(5.43)	(34.31)		(27.10)	(97)	(0.93)
417	6.45	34.227					116							
500	5.94	34.279					106							
584	5.50	34.309					98							
ALEXANDER AGASSIZ; January 17, 1964; 0747 GCT; 34°04'N, 121°43.5'W; sounding, 1912 fm; wind, 330°, force 4; weather, partly cloudy; sea, moderate; wire angle, 15°.														79.67
1	13.36	33.574					274	0	(13.36)	(33.57)		(25.23)	(274)	(0.00)
10	13.36	33.572					274	10	13.36	33.57		25.23	274	0.03
44	13.36	33.574					274	20	13.36	33.57		25.23	274	0.05
73	13.30	33.575					273	30	13.36	33.57		25.23	274	0.08
92	10.64	33.503					231	50	13.35	33.57		25.24	274	0.14
106	10.12	33.607					214	75	13.29	33.57		25.25	273	0.21
121	9.78	33.686					203	100	10.30	33.57		25.81	220	0.27
140	9.46	33.807					189	125	9.70	33.71		26.02	200	0.32
159	9.14	33.912					176	150	9.28	33.87		26.21	182	0.37
185a)	8.80	33.996					165	200	8.56	34.03		26.45	159	0.46
208a)	8.40	34.039					156	250	7.53	34.05		26.62	143	0.53
230a)	7.84	34.037					148	300	7.11	34.12		26.73	132	0.60
260a)	7.42	34.062					141	400	6.21	34.19		26.91	115	0.73
296a)	7.14	34.111					133	500	5.84	34.28		27.03	104	0.85
340a)	6.74	34.160					124							
401a)	6.20	34.189					115							
476a)	5.94	34.267					106							
551a)	5.54	34.305					99							

a) Possible posttrip; depths may be slightly in error.

SIO
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6401

OBSERVED							COMPUTED	INTERPOLATED				COMPUTED		
Z	T	S	O_2	PO_4-P	SiO_3-Si	NO_2-N	δ_T	Z	T	S	O_2	σ_t	δ_T	ΔD
m	°C	‰	ml/L	µg at/L	µg at/L	µg at/L	cl/ton	m	°C	‰	ml/L	g/L	cl/ton	dyn m

79.70 ALEXANDER AGASSIZ; January 17, 1964; 0520 GCT; 33°57'N, 121°57'W; sounding, 2010 fm; wind, 330°, force 4; weather, cloudy; sea, moderate; wire angle, 22°.

1	13.45	33.365					291	0	(13.45)	(33.36)		(25.05)	(292)	(0.00)
10	13.45	33.358					292	10	13.45	33.36		25.05	292	0.03
29	13.51	33.438					287	20	13.49	33.39		25.07	290	0.06
56	13.32	33.528					277	30	13.51	33.44		25.10	287	0.09
65	11.27	33.278					258	50	13.50	33.53		25.17	280	0.14
79	10.67	33.387					240	75	10.81	33.33		25.53	246	0.21
93	10.16	33.603					215	100	9.75	33.67		25.98	204	0.27
107	9.49	33.725					196	125	9.35	33.83		26.17	186	0.32
129	9.31	33.855					183	150	8.99	33.95		26.32	171	0.36
147	9.06	33.940					173	200	8.21	34.02		26.49	155	0.44
175	8.48	34.001					160	250	7.64	34.09		26.63	141	0.52
202	8.19	34.021					154	300	7.34	34.17		26.74	131	0.59
229	7.87	34.068					146	400	6.64	34.25		26.90	116	0.72
273	7.45	34.117					137	500	5.93	34.29		27.02	105	0.84
323	7.24	34.213					127							
400	6.64	34.252					116							
478	6.02	34.285					106							
561	5.69	34.317					100							

79.74 ALEXANDER AGASSIZ; January 17, 1964; 0107 GCT; 33°48.5'N, 122°13'W; sounding, 2068 fm; wind, 310°, force 3; weather, cloudy; sea, rough; wire angle, 12°.

0	13.66	33.403					292	0	13.66	33.40		25.04	293	0.00
10	13.64	33.416					291	10	13.64	33.42		25.06	291	0.03
29	13.54	33.398					290	20	13.58	33.40		25.06	291	0.06
58	13.78	33.553					284	30	13.55	33.40		25.06	291	0.09
68	13.24	33.451					281	50	13.75	33.52		25.12	286	0.15
84	10.58	33.354					241	75	11.95	33.39		25.37	262	0.21
98	9.96	33.481					221	100	9.80	33.57		25.89	212	0.27
113	9.57	33.652					202	125	9.21	33.79		26.16	187	0.32
137	9.05	33.834					181	150	8.83	33.87		26.28	175	0.37
157	8.78	33.892					172	200	8.20	34.02		26.50	155	0.45
187	8.48	34.008					159	250	7.82	34.06		26.58	146	0.53
216	7.90	34.036					149	300	7.04	34.08		26.71	134	0.60
246	7.84	34.062					146	400	6.37	34.18		26.88	118	0.73
295	7.10	34.077					135	500	5.55	34.22		27.01	105	0.85
349	6.65	34.125					126	600	5.17	34.30		27.12	95	0.96
433	6.16	34.200					114							
517	5.42	34.225					103							
603	5.16	34.305					95							

80.51 ALEXANDER AGASSIZ; January 15, 1964; 2135 GCT; 34°26'N, 120°32.5'W; sounding, 80 fm; wind, 320°, force 3; weather, partly cloudy; sea, rough; wire angle, 00°.

0	14.60	33.645	5.49	0.51	4	0.10	293	0	14.60	33.64	5.49	25.03	294	0.00
10	14.42	33.641	5.50	0.50	4	0.12	290	10	14.42	33.64	5.50	25.07	290	0.03
20	14.30	33.636	5.40	0.58	4	0.13	288	20	14.30	33.64	5.40	25.09	288	0.06
35	14.14	33.635	-	0.58	5	0.13	285	30	14.18	33.64		25.12	285	0.09
50	13.35	33.641	4.64	0.98	11	0.18	269	50	13.35	33.64	4.64	25.29	269	0.14
70	10.80	33.801	2.98	1.78	22	0.00	211	75	10.75	33.81	2.98	25.91	210	0.20
90	10.62	33.836	3.04	1.84	26	0.00	206	100	10.54	33.86	3.02	25.99	203	0.25
100	10.54	33.856	3.02	1.89	23	-	203							

OBSERVED							COMPUTED	INTERPOLATED				COMPUTED			SIO
Z	T	S	O_2	PO_4-P	SiO_3-Si	NO_2-N	δ_T	Z	T	S	O_2	σ_t	δ_T	ΔD	CCOFI
m	°C	‰	ml/L	µg at/L	µg at/L	µg at/L	cl/ton	m	°C	‰	ml/L	g/L	cl/ton	dyn m	6401
ALEXANDER AGASSIZ; January 16, 1964; 0016 GCT; 34°22.5'N, 120°40'W; sounding, 260 fm; wind, 320°, force 4; weather, clear; sea, rough; wire angle, 07°.															80.53
0	14.17	33.642	5.90	0.56	5	0.14	285	0	14.17	33.64	5.90	25.12	285	0.00	
10	14.19	33.653	5.78	0.56	5	0.14	285	10	14.19	33.65	5.78	25.12	285	0.03	
20	14.09	33.633	5.76	0.60	5	0.15	284	20	14.09	33.63	5.76	25.13	284	0.06	
40	12.92	33.616	4.49	1.08	10	0.09	263	30	13.74	33.62	5.29	25.20	278	0.09	
60	11.99	33.668	4.17	1.38	13	0.01	242	50	12.42	33.63	4.34	25.47	252	0.14	
80	11.78	33.686	3.97	1.42	15	0.00	237	75	11.82	33.68	4.03	25.62	238	0.20	
105	11.38	33.743	3.66	1.60	18	0.00	225	100	11.50	33.72	3.76	25.71	229	0.26	
130	10.40	33.830	3.24	1.92	23	-	202	125	10.68	33.80	3.35	25.92	209	0.31	
160	9.96	33.901	3.08	2.05	26	0.00	190	150	10.09	33.88	3.15	26.08	194	0.37	
190	9.55	34.001	2.68	2.24	31	-	176	200	9.46	34.02	2.58	26.30	173	0.46	
220	9.30	34.046	2.47	2.35	33	0.00	169	250	9.11	34.08	2.34	26.40	163	0.55	
255	9.08	34.084	2.32	2.38	35	-	163	300	8.40	34.14	1.77	26.56	148	0.63	
300	8.40	34.137	1.77	2.66	45	0.00	149	400	7.38	34.23	0.74	26.78	127	0.77	
349	7.65	34.165	1.47	2.81	50	-	136								
399	7.39	34.227	0.74	3.26	70	0.00	128								
450	6.96	34.240	0.58	3.36	77	0.00	121								
ALEXANDER AGASSIZ; January 16, 1964; 0359 GCT; 34°18.5'N, 120°48'W; sounding, 410 fm; wind, 330°, force 3; weather, clear; sea, very rough; wire angle, 05°.															80.55
1	14.37	33.649	5.90	0.42	5	0.04	288	0	(14.37)	(33.65)	(5.90)	(25.09)	(288)	(0.00)	
11	14.34	33.652	5.91	0.43	5	0.04	288	10	14.34	33.65	5.91	25.09	288	0.03	
31	14.32	33.654	5.85	0.44	4	0.04	287	20	14.34	33.65	5.88	25.09	288	0.06	
41	12.48	33.636	4.42	1.11	13	0.05	253	30	14.33	33.65	5.85	25.10	288	0.09	
56	11.38	33.723	3.78	1.49	18	0.00	227	50	11.75	33.69	3.97	25.64	236	0.14	
71	10.96	33.773	3.55	1.63	20	0.00	216	75	10.90	33.78	3.53	25.86	214	0.20	
96	10.61	33.812	3.31	1.80	22	-	207	100	10.56	33.82	3.25	25.96	206	0.25	
116	10.32	33.865	3.06	1.88	24	0.00	199	125	10.15	33.89	2.96	26.08	194	0.30	
136	9.95	33.924	2.84	2.02	28	-	188	150	9.65	33.96	2.79	26.22	181	0.35	
156	9.57	33.977	2.77	2.09	31	0.00	178	200	9.25	34.06	2.46	26.36	167	0.44	
186	9.34	34.029	2.52	2.20	34	0.00	171	250	8.95	34.12	2.06	26.46	158	0.52	
221	9.09	34.093	2.29	2.34	37	0.00	162	300	8.58	34.17	1.78	26.56	149	0.60	
251	8.94	34.124	2.06	2.41	39	-	158	400	7.28	34.21	1.27	26.78	128	0.74	
302	8.56	34.171	1.78	2.57	44	0.00	149	500	6.43	34.24	0.71	26.92	114	0.87	
357	7.68	34.180	1.73	2.65	50	-	135	600	5.83	34.30	0.54	27.04	103	0.99	
442	6.94	34.224	0.88	3.00	64	0.00	122								
527	6.20	34.247	0.64	3.20	76	-	111								
612	5.77	34.307	0.51	3.29	86	0.00	101								
ALEXANDER AGASSIZ; January 16, 1964; 0807 GCT; 34°13'N, 120°59.5'W; sounding, 520 fm; wind, 290°, force 3; weather, clear; sea, missing; wire angle, 10°.															80.58
0	13.78	33.627					278	0	13.78	33.63		25.19	278	0.00	
10	13.76	33.625					278	10	13.76	33.62		25.19	278	0.03	
30	13.62	33.623					276	20	13.71	33.62		25.20	278	0.06	
39	12.08	33.629					246	30	13.62	33.62		25.22	276	0.08	
54	11.24	33.698					226	50	11.30	33.66		25.70	230	0.13	
69	10.65	33.805					208	75	10.45	33.85		26.00	202	0.19	
94	10.02	33.923					189	100	9.95	33.94		26.15	187	0.24	
113	9.86	33.957					184	125	9.78	33.98		26.21	181	0.28	
133	9.71	33.999					179	150	9.29	33.97		26.29	174	0.33	
154	9.18	33.961					173	200	8.69	34.07		26.46	158	0.41	
183	8.80	34.005					164	250	8.35	34.18		26.60	145	0.49	
218	8.58	34.140					151	300	7.97	34.19		26.66	139	0.57	
248	8.36	34.177					145	400	7.16	34.20		26.79	127	0.70	
298	7.99	34.191					139	500	6.23	34.26		26.96	110	0.83	
352	7.62	34.190					134	600	5.71	34.30		27.06	101	0.94	
438	6.79	34.233					119								
521	6.08	34.270					108								
607	5.70	34.314					100								

OBSERVED							COMPUTED	INTERPOLATED				COMPUTED		
Z	T	S	O_2	PO_4-P	SiO_3-Si	NO_2-N	δ_T	Z	T	S	O_2	σ_t	δ_T	ΔD
m	°C	‰	ml/L	µg at/L	µg at/L	µg at/L	cl/ton	m	°C	‰	ml/L	g/L	cl/ton	dyn m

80.60 ALEXANDER AGASSIZ; January 16, 1964; 1010 GCT; 34°09'N, 121°09'W; sounding, 1150 fm; wind, 320°, force 4; weather, clear; sea, missing; wire angle, 16°.

0	13.74	33.610	6.01	0.51	5	0.06	279	0	13.74	33.61	6.01	25.19	279	0.00
10	13.72	33.613	5.96	0.52	5	0.06	278	10	13.72	33.61	5.96	25.19	278	0.03
29	13.70	33.610	5.92	0.53	5	0.06	278	20	13.70	33.61	5.94	25.20	278	0.06
58	12.99	33.610	4.99	0.94	9	0.11	264	30	13.70	33.61	5.92	25.20	278	0.08
77	11.06	33.682	3.92	1.56	18	0.01	224	50	13.68	33.61	5.91	25.20	278	0.14
91	10.26	33.767	3.59	1.77	22	0.00	205	75	11.12	33.67	3.97	25.74	226	0.20
105	10.05	33.853	3.23	1.99	25	0.00	195	100	10.11	33.81	3.39	26.03	199	0.26
129	9.77	33.933	2.91	2.04	29	0.00	185	125	9.81	33.92	2.98	26.16	186	0.31
148	9.26	33.977	2.68	2.20	32	-	173	150	9.21	33.98	2.67	26.31	172	0.35
173	8.87	34.024	2.59	2.30	36	0.00	164	200	8.59	34.09	2.28	26.49	155	0.43
201	8.57	34.092	2.22	2.47	40	-	155	250	7.95	34.14	1.83	26.63	142	0.51
249	7.96	34.142	1.83	2.67	48	0.00	142	300	7.60	34.22	1.21	26.74	131	0.58
307	7.54	34.225	1.18	2.96	56	-	130	400	6.71	34.23	0.88	26.87	119	0.71
394	6.78	34.233	0.91	3.11	68	0.00	119	500	5.89	34.28	0.60	27.02	105	0.83
498	5.89	34.280	0.61	3.32	81	-	105	600	5.48	34.31	0.48	27.09	98	0.94
604	5.47	34.309	0.48	3.40	88	0.00	98	700	5.10	34.34	0.50	27.16	91	1.04
757	4.88	34.378	0.54	3.45	102	-	86	800	4.72	34.39	0.58	27.25	83	1.14
922	4.26	34.445	0.70	3.47	115	0.00	74	1000	4.03	34.46	0.78	27.38	71	1.31
1078	3.80	34.479	0.85	3.44	126	-	67							
1158	3.56	34.501	0.92	3.40	132	0.00	63							

80.63 ALEXANDER AGASSIZ; January 16, 1964; 1259 GCT; 34°02.5'N, 121°23'W; sounding, 1590 fm; wind, 330°, force 2; weather, clear; sea, missing; wire angle, 08°.

0	13.48	33.582					276	0	13.48	33.58		25.22	276	0.00
10	13.48	33.584					276	10	13.48	33.58		25.22	276	0.03
30	13.49	33.584					276	20	13.48	33.58		25.22	276	0.06
60	13.45	33.587					275	30	13.49	33.58		25.22	276	0.08
70	12.80	33.549					265	50	13.46	33.59		25.23	275	0.14
86	10.58	33.543					227	75	11.22	33.55		25.63	237	0.20
101	9.98	33.663					208	100	10.00	33.65		25.92	209	0.26
116	9.56	33.748					195	125	9.29	33.80		26.15	187	0.31
140	9.06	33.905					176	150	8.83	33.93		26.33	170	0.35
160	8.66	33.947					167	200	8.23	34.02		26.49	155	0.44
189	8.29	34.015					156	250	7.62	34.05		26.60	144	0.51
219	8.14	34.028					153	300	7.20	34.14		26.74	132	0.58
249	7.64	34.050					144	400	6.43	34.21		26.89	117	0.71
298	7.22	34.140					132	500	5.85	(34.28)		(27.02)	(104)	(0.83)
352	6.76	34.191					122	600	5.30					
437	6.18	34.227					112							
521	5.74	-												
606	5.28	-												

80.67 ALEXANDER AGASSIZ; January 16, 1964; 1540 GCT; 33°55'N, 121°37'W; sounding, 1870 fm; wind, 350°, force 3; weather, clear; sea, rough; wire angle, 22°.

0	13.50	33.507					282	0	13.50	33.51		25.16	281	0.00
9	13.48	33.514					281	10	13.48	33.51		25.16	281	0.03
42	13.50	33.511					281	20	13.49	33.51		25.16	281	0.06
69	13.50	33.509					282	30	13.50	33.51		25.16	281	0.08
88	10.86	33.476					236	50	13.50	33.51		25.16	281	0.14
102	10.26	33.572					219	75	13.50	33.51		25.16	281	0.21
116	9.96	33.651					209	100	10.33	33.55		25.79	222	0.28
134	9.50	33.785					191	125	9.71	33.72		26.02	199	0.33
153	9.10	33.888					178	150	9.16	33.87		26.23	180	0.38
180	8.68	34.006					163	200	8.37	34.06		26.50	154	0.46
204	8.31	34.063					153	250	7.81	34.10		26.62	143	0.54
227	7.91	34.064					147	300	7.34	34.13		26.71	134	0.61
258	7.78	34.113					142	400	6.65	34.24		26.89	117	0.74
295	7.42	34.133					135	500	5.83	34.30		27.04	103	0.86
341	6.71	34.126					126							
405	6.64	34.247					117							
487	5.92	34.291					104							
570	5.50	34.338					96							

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OBSERVED							COMPUTED	INTERPOLATED				COMPUTED		
Z	T	S	O_2	PO_4-P	SiO_3-Si	NO_2-N	δ_T	Z	T	S	O_2	σ_t	δ_T	ΔD
m	°C	‰	ml/L	µg at/L	µg at/L	µg at/L	cl/ton	m	°C	‰	ml/L	g/L	cl/ton	dyn m

ALEXANDER AGASSIZ; January 16, 1964; 1823 GCT; 33°48'N, 121°51'W; sounding, 1980 fm; wind, 350°, force 3; weather, partly cloudy; sea, rough; wire angle, 18°. 80.70

0	13.60	33.536	-	0.52	3	0.10	282	0	13.60	33.54		25.16	281	0.00
9	13.56	33.538	5.94	0.52	3	0.11	281	10	13.56	33.54	5.94	25.17	280	0.03
28	13.55	33.536	5.86	0.55	3	0.10	281	20	13.56	33.54	5.88	25.17	280	0.06
57	13.56	33.535	5.81	0.55	3	0.10	281	30	13.55	33.54	5.86	25.17	280	0.08
76	12.94	33.525	5.54	0.80	6	0.13	270	50	13.56	33.54	5.83	25.17	280	0.14
90	10.64	33.520	4.25	1.51	16	0.00	229	75	13.10	33.53	5.61	25.26	272	0.21
104	10.03	33.641	3.87	1.73	20	0.00	210	100	10.17	33.61	3.95	25.86	215	0.27
128	9.38	33.803	3.36	1.98	25	0.00	188	125	9.44	33.79	3.43	26.12	190	0.32
147	9.08	33.921	2.98	2.11	29	-	175	150	9.03	33.94	2.90	26.30	173	0.37
170	8.68	34.015	2.65	2.25	34	0.00	162	200	8.25	34.04	2.41	26.50	154	0.45
198	8.28	34.041	2.43	2.40	39	-	154	250	7.78	34.12	1.88	26.64	141	0.53
245	7.81	34.104	1.95	2.63	46	0.00	143	300	7.56	34.20	1.22	26.73	132	0.60
300	7.56	34.204	1.22	2.93	55	-	132	400	6.59	34.25	0.72	26.91	116	0.73
382	6.72	34.240	0.77	3.19	64	0.00	118	500	5.99	34.28	0.52	27.01	106	0.84
483	6.09	34.275	0.57	3.33	75	-	108	600	5.43	34.35	0.40	27.13	94	0.95
584	5.52	34.340	0.39	3.39	90	0.00	96	700	4.93	34.38	0.45	27.21	86	1.05
731	4.80	34.392	0.47	3.48	101	0.00	84	800	4.54	34.41	0.52	27.28	80	1.14
890	4.28	34.432	0.58	3.48	112	0.01	76	1000	3.98	34.46	0.72	27.38	71	1.31
1044	3.86	34.478	0.78	3.43	123	-	68							

ALEXANDER AGASSIZ; January 16, 1964; 2251 GCT; 33°40'N, 122°07'W; sounding, 2075 fm; wind, 350°, force 2; weather, cloudy; sea, rough; wire angle, 14°. 80.74

0	13.64	33.505					285	0	13.64	33.50		25.12	285	0.00
9	13.55	33.510					282	10	13.54	33.51		25.15	282	0.03
43	13.50	33.564					278	20	13.52	33.54		25.18	280	0.06
72	12.70	33.517					266	30	13.51	33.56		25.20	278	0.08
92	9.88	33.429					224	50	13.50	33 56		25.20	278	0.14
106	9.71	33.598					208	75	11.30	33.45		25.54	246	0.21
121	9.34	33.738					192	100	9.75	33.52		25.86	215	0.26
140	9.23	33.865					181	125	9.31	33.77		26.13	190	0.32
159	9.10	33.932					174	150	9.17	33.91		26.26	177	0.36
189	8.59	33.992					162	200	8.48	34.02		26.45	159	0.45
212	8.35	34.053					154	250	8.01	34.13		26.61	144	0.52
235	8.00	34.086					147	300	7.53	34.17		26.71	134	0.60
267	8.02	34.164					141	400	6.66	34.22		26.87	119	0.73
304	7.48	34.175					133	500	6.04	34.28		27.00	107	0.85
350	7.01	34.191					125	600	(5.52)	(34.34)		(27.11)	(96)	(0.96)
419	6.54	34.233					116							
502	6.02	34.285					106							
587	5.58	34.33					97							

ALEXANDER AGASSIZ; January 25, 1964; 1527 GCT; 33°28.5'N, 122°32.5'W; sounding, 2130 fm; wind, 270°, force 1; weather, cloudy; sea, missing; wire angle, 03°. 80.80

0	13.46	33.396	6.13	0.49	3	0.12	289	0	13.46	33.40	6.13	25.08	289	0.00
10	13.42	33.392	6.26	0.50	4	0.12	289	10	13.42	33.39	6.26	25.08	289	0.03
40	13.37	33.385	6.17	0.51	3	0.14	288	20	13.40	33.39	6.26	25.09	288	0.06
65	13.22	33.399	5.90	0.57	4	0.21	284	30	13.38	33.39	6.25	25.09	288	0.09
85	12.17	33.409	5.39	0.92	7	0.14	264	50	13.33	33.39	6.05	25.10	287	0.14
100	10.58	33.420	4.65	1.38	14	0.00	236	75	12.98	33.41	5.74	25.19	279	0.22
115	10.20	33.641	3.95	1.60	19	0.00	213	100	10.58	33.42	4.65	25.64	236	0.28
136	9.52	33.707	3.82	1.75	22	0.00	197	125	9.89	33.67	3.90	25.95	206	0.34
156	9.02	33.855	3.41	1.93	28	0.00	179	150	9.15	33.80	3.55	26.18	185	0.39
180	8.70	33.999	2.85	2.13	34	0.00	163	200	8.53	34.04	2.60	26.46	158	0.47
205	8.48	34.055	2.52	-	-	-	156	250	7.97	34.10	1.99	26.59	145	0.55
230	8.20	34.076	2.26	-	-	-	150	300	7.51	34.13	1.65	26.68	137	0.62
260	7.88	34.117	1.91	-	-	-	143	400	6.40	34.18	0.94	26.88	119	0.76
295	7.60	34.136	1.65	-	-	-	137	500	5.56	34.23	0.73	27.02	105	0.87
345	6.52	34.082	1.68	-	-	-	127							
410	6.36	34.189	0.85	-	-	-	117							
484	5.60	34.209	0.79	-	-	-	107							
564	5.44	34.298	0.51	-	-	-	98							

OBSERVED							COMPUTED	INTERPOLATED				COMPUTED		
Z	T	S	O_2	PO_4-P	SiO_3-Si	NO_2-N	δ_T	Z	T	S	O_2	σ_t	δ_T	ΔD
m	°C	‰	ml/L	µg at/L	µg at/L	µg at/L	cl/ton	m	°C	‰	ml/L	g/L	cl/ton	dyn m

80.90 ALEXANDER AGASSIZ; January 25, 1964; 2106 GCT; 33°08'N, 123°14'W; sounding, 2255 fm; wind, 220°, force 3; weather, overcast; sea, rough; wire angle, 17°.

0	15.90	33.433	5.93	0.29	1	0.00	336	0	15.90	33.43	5.93	24.58	336	0.00
10	15.84	33.416	5.90	0.29	0	0.00	336	10	15.84	33.42	5.90	24.59	336	0.03
38	15.57	33.350	5.88	0.29	0	0.00	335	20	15.69	33.37	5.90	24.58	336	0.07
62	15.84	33.431	5.74	0.29	0	0.00	335	30	15.59	33.35	5.89	24.59	336	0.10
81	15.80	33.436	5.84	0.29	0	0.00	334	50	15.69	33.39	5.81	24.60	335	0.17
95	15.02	33.338	5.93	0.32	1	0.07	324	75	15.82	33.43	5.81	24.60	335	0.25
110	12.80	33.434	5.82	0.53	2	0.00	274	100	13.80	33.39	5.90	25.01	296	0.33
129	11.72	33.332	5.54	0.74	5	0.00	262	125	11.78	33.33	5.57	25.35	263	0.40
148	10.40	33.414	4.85	1.22	12	0.00	233	150	10.27	33.44	4.78	25.71	229	0.46
172	9.65	33.661	4.28	1.49	18	0.00	203	200	9.35	33.81	3.80	26.15	187	0.57
195	9.44	33.792	3.85	-	-	-	190	250	8.51	34.01	3.20	26.44	160	0.66
219	8.93	33.889	3.67	-	-	-	175	300	8.28	34.14	1.82	26.58	147	0.74
247	8.52	34.004	3.27	-	-	-	160	400	6.65	34.12	1.49	26.79	126	0.88
280	8.48	34.113	2.08	-	-	-	152	500	5.86	34.17	0.98	26.94	113	1.01
328	7.85	34.159	1.65	-	-	-	139							
388	6.80	34.117	1.52	-	-	-	128							
461	6.13	34.144	1.19	-	-	-	118							
540	5.57	34.189	0.79	-	-	-	108							

80.100 ALEXANDER AGASSIZ; January 26, 1964; 0150 GCT; 32°49'N, 123°54'W; sounding, 2320 fm; wind, 210°, force 5; weather, cloudy; sea, rough; wire angle, 25°.[a]

1	15.36	33.247	5.86	0.26	0	0.00	338	0	(15.36)	(33.25)	(5.86)	(24.57)	(338)	(0.00)
10	15.36	33.247	5.93	0.26	0	0.00	338	10	15.36	33.25	5.93	24.57	338	0.03
43	15.07	33.169	5.97	0.27	0	0.00	338	20	15.27	33.22	5.94	24.56	338	0.07
71	15.06	33.166	5.83	0.26	0	0.00	338	30	15.15	33.19	5.95	24.57	338	0.10
90	15.04	33.172	5.77	0.26	0	0.00	337	50	15.07	33.17	5.93	24.57	338	0.17
104	14.75	33.182	5.84	0.31	0	0.00	330	75	15.06	33.17	5.82	24.57	338	0.25
118	12.87	33.205	5.85	0.48	2	0.00	292	100	15.02	33.18	5.81	24.59	336	0.34
137	11.30	33.271	5.17	0.93	6	0.00	259	125	12.51	33.22	5.76	25.13	284	0.42
155	10.39	33.480	4.64	1.25	12	0.00	228	150	10.60	33.42	4.80	25.64	236	0.48
183	9.52	33.787	3.63	1.71	23	0.00	192	200	9.31	33.91	3.07	26.24	179	0.59
206	9.26	33.937	2.96	-	-	-	176	250	8.79	34.07	2.25	26.44	159	0.68
229	9.05	33.983	2.67	-	-	-	170	300	8.21	34.15	1.73	26.60	145	0.75
262	8.64	34.101	2.09	-	-	-	155	400	7.45	34.24	0.94	26.78	128	0.90
299	8.22	34.148	1.75	-	-	-	145	500	6.52	34.26	0.76	26.92	114	1.02
346	7.94	34.219	1.33	-	-	-	136							
412	7.34	34.251	0.87	-	-	-	125							
495	6.57	34.262	0.77	-	-	-	115							
579	5.48	34.215	0.70	-	-	-	105							

80.120 ALEXANDER AGASSIZ; January 26, 1964; 1140 GCT; 32°08.5'N, 125°15'W; sounding, 2300 fm; wind, 300°, force 6; weather, partly cloudy; sea, very rough; wire angle, 22°.

1	14.77	33.190	5.96	0.34	1	0.00	330	0	(14.77)	(33.19)	(5.96)	(24.65)	(330)	(0.00)
10	14.76	33.189	5.97	0.34	1	0.00	330	10	14.76	33.19	5.97	24.65	330	0.03
34	14.77	33.188	5.93	0.34	1	0.00	330	20	14.76	33.19	5.95	24.65	330	0.07
62	14.03	33.180	5.91	0.42	2	0.15	316	30	14.77	33.19	5.94	24.65	330	0.10
72	13.71	33.205	5.91	0.44	2	0.21	308	50	14.50	33.18	5.91	24.70	325	0.16
91	12.91	33.167	5.86	0.52	3	0.02	295	75	13.60	33.20	5.91	24.90	306	0.24
105	12.24	33.158	5.68	0.60	3	0.00	284	100	12.49	33.16	5.75	25.09	288	0.32
119	11.62	33.210	5.41	0.80	6	0.00	269	125	11.34	33.28	5.31	25.40	259	0.39
148	10.40	33.524	4.90	1.15	12	0.00	225	150	10.33	33.54	4.87	25.78	223	0.45
167	9.78	33.636	4.49	1.41	17	0.00	207	200	9.02	33.85	3.95	26.24	179	0.55
195	9.10	33.836	3.98	-	-	-	181	250	8.27	34.00	3.16	26.47	157	0.64
228	8.63	33.950	3.69	-	-	-	166	300	7.60	34.02	2.98	26.58	146	0.72
256	8.18	34.010	3.10	-	-	-	155	400	6.27	34.05	1.92	26.79	127	0.86
304	7.56	34.021	2.95	-	-	-	145	500	5.71	34.18	0.77	26.96	110	0.98
366	6.64	34.037	2.40	-	-	-	132	600	5.30	34.28	0.53	27.09	98	1.09
463	5.82	34.119	1.05	-	-	-	116							
552	5.55	34.253	0.57	-	-	-	103							
626	5.14	34.291	0.52	-	-	-	95							

a) An assumed wire angle of 20° was used in depth determination for this station.

OBSERVED							COMPUTED	INTERPOLATED				COMPUTED		
Z	T	S	O_2	PO_4-P	SiO_3-Si	NO_2-N	δ_T	Z	T	S	O_2	σ_t	δ_T	ΔD
m	°C	‰	ml/L	µg at/L	µg at/L	µg at/L	cl/ton	m	°C	‰	ml/L	g/L	cl/ton	dyn m

ALEXANDER AGASSIZ; January 15, 1964; 1800 GCT; 34°24'N, 120°12.5'W; sounding, 127 fm; wind, 340°, force 3; weather, clear; sea, moderate; wire angle, 00°. 81.48

0	14.27	33.652				286	0	14.27	33.65	25.11	286	0.00
10	14.20	33.636				286	10	14.20	33.64	25.12	286	0.03
30	14.17	33.636				285	20	14.20	33.64	25.12	286	0.06
45	13.29	33.623				269	30	14.17	33.64	25.12	285	0.09
55	12.82	33.641				259	50	13.08	33.63	25.34	265	0.14
70	11.80	33.67				238	75	11.62	33.68	25.66	234	0.20
85	11.26	33.734				224	100	10.80	33.80	25.90	211	0.26
105	10.64	33.825				207	125	10.33	33.89	26.05	197	0.31
130	10.24	33.905				194	150	9.86	33.96	26.18	184	0.36
150	9.86	33.961				184	200	9.25	34.11	26.40	163	0.45
180	9.51	34.055				172						
205	9.18	34.124				161						
235	9.02	34.145				157						

ALEXANDER AGASSIZ; January 15, 1964; 1530 GCT; 34°17.5'N, 120°26'W; sounding, 220 fm; wind, 350°, force 6; weather, clear; sea, very rough; wire angle, 24°. 81.51

0	13.64	33.632				275	0	13.64	33.63	25.22	275	0.00
9	13.63	33.632				275	10	13.63	33.63	25.23	275	0.03
27	12.64	33.634				256	20	13.61	33.63	25.23	275	0.06
41	11.52	33.714				230	30	12.44	33.64	25.47	252	0.08
50	11.06	33.757				219	50	11.06	33.76	25.82	219	0.13
64	10.72	33.803				210	75	10.49	33.84	25.98	203	0.18
78	10.44	33.848				202	100	10.14	33.89	26.08	194	0.23
92	10.22	33.870				197	125	9.85	33.95	26.18	185	0.28
116	9.96	33.929				188	150	9.50	34.03	26.30	173	0.33
135	9.71	33.980				180	200	9.18	34.12	26.42	162	0.41
163	9.37	34.070				168	250	8.81	34.16	26.51	153	0.49
192	9.22	34.106				163	300	8.30	34.17	26.60	145	0.57
226	8.98	34.140				157						
276	8.60	34.173				149						
330	7.89	34.169				139						
389	7.58	34.220				131						

ALEXANDER AGASSIZ; January 15, 1964; 1307 GCT; 34°11.5'N, 120°38.5'W; sounding, 295 fm;[a] wind, 350°, force 7; weather, clear; sea, missing; wire angle, 31°. 81.54

1	13.84	33.644				278	0	(13.84)	(33.64)	(25.19)	(279)	(0.00)
10	13.82	33.643				278	10	13.82	33.64	25.19	278	0.03
28	13.82	33.641				278	20	13.82	33.64	25.19	278	0.06
55	11.98	33.683				240	30	13.82	33.64	25.19	278	0.08
64	11.30	33.734				225	50	12.75	33.67	25.43	256	0.14
77	10.94	33.763				216	75	10.98	33.76	25.83	217	0.20
90	10.75	33.783				212	100	10.59	33.81	25.94	207	0.25
104	10.52	33.821				205	125	10.26	33.89	26.06	196	0.30
125	10.26	33.888				196	150	9.66	33.97	26.23	180	0.35
141	9.76	33.952				183	200	9.25	34.05	26.36	168	0.44
167	9.53	34.006				175	250	8.69	34.15	26.52	152	0.52
193	9.33	34.041				170	300	8.15	34.16	26.61	143	0.60
219	9.02	34.095				161	400	7.32	34.23	26.79	127	0.74
263	8.55	34.162				149	500	6.50	34.26	26.92	114	0.86
311	8.02	34.162				141						
387	7.42	34.220				129						
465	6.74	34.242				118						
548	6.20	34.276				109						

a) Although the fathometer indicates a bottom depth of 540 meters, the absence of sediment in the water samples of the deepest Nansen bottle justifies the acceptance of the values.

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OBSERVED							COMPUTED	INTERPOLATED				COMPUTED		
Z	T	S	O_2	PO_4-P	SiO_3-Si	NO_2-N	δ_T	Z	T	S	O_2	σ_t	δ_T	ΔD
m	°C	‰	ml/L	µg at/L	µg at/L	µg at/L	cl/ton	m	°C	‰	ml/L	g/L	cl/ton	dyn m

81.57 ALEXANDER AGASSIZ; January 15, 1964; 0952 GCT; 34°05.5'N, 120°51.5'W; sounding, 495 fm; wind, 320°, force 5; weather, clear; sea, missing; wire angle, 32°.

1	13.82	33.615					280	0	(13.82)	(33.62)	(25.18)	(280)	(0.00)
9	13.82	33.624					279	10	13.82	33.62	25.18	280	0.03
31	13.82	33.618					280	20	13.82	33.62	25.18	280	0.06
56	12.16	33.627					248	30	13.82	33.62	25.18	280	0.08
65	11.54	33.665					234	50	13.11	33.62	25.32	266	0.14
82	10.78	33.772					213	75	11.06	33.73	25.80	221	0.20
95	10.47	33.828					204	100	10.38	33.84	26.00	201	0.25
108	10.26	33.865					198	125	9.73	33.88	26.14	188	0.30
134	9.38	33.881					182	150	9.17	33.91	26.26	177	0.35
152	9.15	33.917					176	200	8.53	34.07	26.48	156	0.43
177	8.84	34.026					163	250	8.26	34.18	26.61	143	0.51
209	8.41	34.084					153	300	7.94	34.19	26.67	138	0.58
235	8.35	34.162					146	400	7.03	34.23	26.83	123	0.72
279	8.10	34.191					140	500	6.26	34.28	26.97	109	0.84
338	7.60	34.182					134	600	(5.52)	(34.34)	(27.11)	(96)	(0.95)
431	6.78	34.247					118						
517	6.13	34.288					107						
589	5.60	34.331					98						

81.60 ALEXANDER AGASSIZ; January 14, 1964; 0835 GCT; 34°00'N, 121°04'W; sounding, 610 fm; wind, 340°, force 6; weather, rain; sea, rough; wire angle, 42°.

3	13.96	33.596					284	0	(13.96)	(33.60)	(25.13)	(284)	(0.00)
10	13.94	33.600					283	10	13.94	33.60	25.14	283	0.03
29	13.95	33.597					284	20	13.94	33.60	25.14	283	0.06
50	13.32	33.594					272	30	13.95	33.60	25.14	284	0.09
58	11.44	33.643					234	50	13.32	33.59	25.26	272	0.14
73	10.82	33.698					219	75	10.77	33.70	25.83	218	0.20
84	10.55	33.731					212	100	10.20	33.76	25.97	204	0.26
96	10.30	33.756					206	125	9.78	33.90	26.15	187	0.31
118	9.80	33.855					191	150	9.45	34.02	26.30	173	0.35
133	9.72	33.951					183	200	8.65	34.09	26.48	156	0.44
155	9.36	34.036					171	250	7.97	34.14	26.62	142	0.51
181	8.98	34.075					162	300	7.45	34.18	26.73	132	0.58
203	8.58	34.090					155	400	6.65	34.22	26.87	119	0.71
241	8.08	34.125					145	500	6.02	34.28	27.00	106	0.83
289	7.54	34.169					134						
370	6.86	34.212					122						
448	6.34	34.249					113						
519	5.90	34.28					105						

81.64 ALEXANDER AGASSIZ; January 14, 1964; 0603 GCT; 33°53'N, 121°17'W; sounding, 1710 fm; wind, 340°, force 5; weather, missing; sea, rough; wire angle, 27°.

1	13.68	33.568					281	0	(13.68)	(33.57)	(25.17)	(281)	(0.00)
9	13.62	33.568					280	10	13.62	33.57	25.18	279	0.03
32	13.64	33.564					280	20	13.64	33.57	25.18	280	0.06
58	11.95	33.443					258	30	13.64	33.56	25.17	281	0.08
67	10.71	33.438					237	50	13.64	33.56	25.17	281	0.14
85	10.06	33.620					212	75	10.43	33.50	25.73	227	0.20
97	9.75	33.720					200	100	9.68	33.74	26.04	198	0.26
110	9.48	33.790					191	125	9.23	33.86	26.21	182	0.31
136	9.06	33.923					174	150	8.95	33.98	26.35	168	0.35
153	8.92	33.997					167	200	8.27	34.05	26.51	153	0.43
180	8.60	34.048					158	250	7.73	34.09	26.62	143	0.51
209	8.10	34.044					151	300	7.52	34.17	26.71	134	0.58
235	7.79	34.060					146	400	6.47	34.20	26.88	118	0.71
278	7.68	34.151					137	500	5.90	34.26	27.00	106	0.83
334	7.18	34.193					128	600	(5.23)	(34.32)	(27.13)	(94)	(0.94)
424	6.22	34.198					115						
509	5.84	34.271					105						
581	5.37	34.309					97						

OBSERVED							COMPUTED	INTERPOLATED				COMPUTED		
Z	T	S	O_2	PO_4-P	SiO_3-Si	NO_2-N	δ_T	Z	T	S	O_2	σ_t	δ_T	ΔD
m	°C	‰	ml/L	µg at/L	µg at/L	µg at/L	cl/ton	m	°C	‰	ml/L	g/L	cl/ton	dyn m

ALEXANDER AGASSIZ; January 14, 1964; 0338 GCT; 33°46.5'N, 121°30.5'W; sounding, 1845 fm; wind, 330°, force 6; weather, missing; sea, rough; wire angle, 35°. 81.67

1	13.84	33.574					283	0	(13.84)	(33.57)	(25.14)	(284)	(0.00)
9	13.82	33.576					283	10	13.82	33.58	25.15	283	0.03
30	13.78	33.575					282	20	13.80	33.58	25.15	282	0.06
55	13.40	33.596					273	30	13.78	33.58	25.16	282	0.08
64	13.20	33.585					270	50	13.50	33.59	25.22	276	0.14
80	10.32	33.584					219	75	10.58	33.58	25.77	224	0.20
92	9.90	33.688					205	100	9.75	33.72	26.02	200	0.26
105	9.62	33.758					195	125	9.29	33.90	26.23	180	0.31
129	9.21	33.908					178	150	8.94	33.98	26.35	168	0.35
145	9.00	33.975					170	200	8.30	34.07	26.52	152	0.43
170	8.66	34.025					161	250	7.49	34.08	26.65	140	0.51
198	8.34	34.068					153	300	6.95	34.10	26.74	131	0.58
224	7.90	34.066					147	400	6.36	34.22	26.91	115	0.70
265	7.28	34.090					137	500	5.88	34.31	27.04	102	0.82
321	6.80	34.116					128						
409	6.32	34.223					114						
491	5.94	34.300					104						
563	5.39	34.314					96						

ALEXANDER AGASSIZ; January 14, 1964; 0049 GCT; 33°39.5'N, 121°44.5'W; sounding, 1945 fm; wind, 320°, force 5; weather, cloudy; sea, rough; wire angle, 29°. 81.70

1	14.23	33.594					290	0	(14.23)	(33.59)	(25.07)	(290)	(0.00)
9	14.21	33.595					289	10	14.21	33.60	25.08	289	0.03
32	14.20	33.589					289	20	14.20	33.59	25.08	289	0.06
58	14.07	33.583					287	30	14.20	33.59	25.08	289	0.09
66	13.36	33.529					277	50	14.15	33.59	25.09	288	0.14
84	10.37	33.565					222	75	11.44	33.55	25.59	241	0.21
96	9.90	33.667					206	100	9.78	33.72	26.01	201	0.27
110	9.50	33.810					190	125	9.22	33.88	26.23	180	0.32
135	9.06	33.926					174	150	8.83	33.97	26.36	167	0.36
152	8.80	33.979					166	200	8.15	34.05	26.53	152	0.44
178	8.46	34.019					158	250	7.80	34.14	26.65	140	0.52
207	8.04	34.062					149	300	7.61	34.22	26.74	131	0.59
232	7.82	34.099					143	400	6.68	34.26	26.90	116	0.71
276	7.80	34.206					135	500	6.00	34.29	27.01	105	0.83
331	7.25	34.225					126						
419	6.54	34.267					114						
501	5.99	34.288					105						
572	5.68	34.356					97						

ALEXANDER AGASSIZ; January 13, 1964; 0001 GCT; 34°20'N, 119°58'W; sounding, 257 fm; wind, 270°, force 3; weather, clear; sea, slight; wire angle, 02°. 82.46

0	15.26	33.645					307	0	15.26	33.64	24.89	307	0.00
25	15.16	33.635					306	10	15.25	33.64	24.89	307	0.03
45	14.28	33.574					292	20	15.23	33.64	24.89	307	0.06
65	12.77	33.609					260	30	15.00	33.62	24.93	303	0.09
90	11.34	33.730					226	50	14.00	33.57	25.10	287	0.15
115	10.84	33.787					213	75	12.00	33.66	25.57	243	0.22
130	10.60	33.839					205	100	11.12	33.76	25.81	220	0.28
165	9.88	33.966					184	125	10.69	33.82	25.93	208	0.33
195	9.42	34.078					168	150	10.18	33.91	26.09	193	0.38
225	9.16	34.137					160	200	9.38	34.09	26.37	167	0.47
255	8.88	34.166					154	250	8.92	34.16	26.49	155	0.56
295	8.54	34.190					147	300	8.49	34.19	26.58	146	0.63
345	8.00	34.220					137	400	7.31	34.25	26.81	125	0.77
395	7.37	34.251					126						
456	6.72	34.244					118						

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OBSERVED							COMPUTED	INTERPOLATED				COMPUTED		
Z	T	S	O_2	PO_4-P	SiO_3-Si	NO_2-N	δ_T	Z	T	S	O_2	σ_t	δ_T	ΔD
m	°C	‰	ml/L	µg at/L	µg at/L	µg at/L	cl/ton	m	°C	‰	ml/L	g/L	cl/ton	dyn m

82.47 ALEXANDER AGASSIZ; January 13, 1964; 0135 GCT; 34°18'N, 120°00'W; sounding, 297 fm; wind, 270°, force 4; weather, clear; sea, slight; wire angle, 00°.

0	15.00	33.631	5.78	0.43	2	0.04	303	0	15.00	33.63	5.78	24.94	303	0.00
20	14.86	33.628	5.77	0.43	4	0.04	300	10	14.94	33.63	5.78	24.95	301	0.03
40	14.42	33.612	5.65	0.55	5	0.06	292	20	14.86	33.63	5.77	24.97	300	0.06
60	11.74	33.681	3.94	1.42	16	0.03	236	30	14.75	33.63	5.75	24.99	298	0.09
80	11.26	33.738	3.69	1.62	20	0.01	224	50	12.91	33.62	4.76	25.36	262	0.15
105	10.94	33.792	3.47	1.71	21	0.01	214	75	11.36	33.72	3.73	25.73	227	0.21
130	10.21	33.892	2.91	2.04	27	0.00	195	100	11.02	33.78	3.53	25.84	217	0.26
155	9.78	33.977	2.51	2.20	32	0.01	182	125	10.37	33.87	3.03	26.03	199	0.32
180	9.57	34.027	2.26	2.32	34	0.00	175	150	9.85	33.96	2.59	26.19	184	0.36
205	9.27	34.079	2.07	2.46	38	0.00	166	200	9.33	34.07	2.11	26.36	168	0.45
230	9.04	34.119	1.79	2.59	42	0.00	160	250	8.90	34.14	1.58	26.48	156	0.54
256	8.86	34.146	1.52	2.69	44	0.00	155	300	8.46	34.20	0.90	26.60	145	0.62
280	8.67	34.190	0.93	2.88	50	0.00	149	400	7.44	34.22	0.51	26.76	129	0.76
320	8.24	34.211	0.87	3.02	56	-	141	500	6.65	34.25	0.39	26.90	116	0.89
361	7.86	34.216	0.71	3.15	64	0.00	135							
411	7.32	34.228	0.48	3.27	74	-	127							
461	6.82	34.239	0.48	3.46	85	0.00	119							
521	6.58	34.253	0.34	3.86	100	-	115							

82.49 ALEXANDER AGASSIZ; January 13, 1964; 0345 GCT; 34°14'N, 120°09'W; sounding, 301 fm; wind, 270°, force 3; weather, clear; sea, moderate; wire angle, 17°.

0	13.98	33.620	5.86	0.55	6	0.07	283	0	13.98	33.62	5.86	25.15	283	0.00
10	13.98	33.619	5.78	0.56	6	0.07	283	10	13.98	33.62	5.78	25.15	283	0.03
29	13.86	33.628	5.80	0.57	6	0.06	280	20	13.92	33.62	5.79	25.16	282	0.06
43	12.52	33.639	4.35	1.21	13	0.07	254	30	13.85	33.63	5.80	25.18	280	0.08
53	11.86	33.667	4.04	1.39	15	0.02	239	50	12.02	33.66	4.14	25.57	243	0.14
67	11.31	33.738	3.60	1.65	19	0.00	225	75	11.22	33.74	3.57	25.78	223	0.20
81	11.14	33.747	3.54	1.65	19	-	221	100	10.48	33.82	3.16	25.97	204	0.25
95	10.56	33.803	3.23	1.85	23	0.00	207	125	10.19	33.86	2.92	26.05	197	0.30
120	10.26	33.856	2.96	1.99	26	-	198	150	9.85	33.93	2.70	26.16	186	0.35
139	9.98	33.894	2.85	2.09	28	0.00	191	200	9.39	34.07	2.07	26.35	169	0.44
168	9.68	34.001	2.39	2.29	32	-	178	250	8.96	34.14	1.56	26.47	157	0.52
196	9.42	34.070	2.10	2.43	35	0.00	169	300	8.52	34.21	0.98	26.60	145	0.60
226	9.16	34.093	1.97	2.52	37	-	163	400	7.33	34.23	0.44	26.79	127	0.74
264	8.84	34.162	1.34	2.78	44	0.00	153	500	6.63	34.25		26.90	116	0.87
321	8.30	34.211	0.79	3.03	52	-	142							
383	7.53	34.227	0.48	3.27	66	0.00	130							
456	6.78	34.244	0.37	3.53	82	-	119							
521	6.58	34.247	-	3.86	95	0.00	116							

82.51 ALEXANDER AGASSIZ; January 13, 1964; 0738 GCT; 34°10'N, 120°17'W; sounding, 205 fm; wind, 340°, force 2; weather, clear; sea, missing; wire angle, 10°.

0	14.34	33.629	6.00	0.41	5	0.04	289	0	14.34	33.63	6.00	25.08	289	0.00
15	14.37	33.631	5.94	0.40	5	0.04	290	10	14.37	33.63	5.96	25.07	290	0.03
25	14.16	33.615	5.64	0.60	6	0.10	287	20	14.30	33.62	5.76	25.08	289	0.06
40	13.07	33.618	4.85	0.98	10	0.14	265	30	13.93	33.62	5.45	25.16	282	0.09
55	12.10	33.672	4.19	1.31	16	0.07	243	50	12.60	33.64	4.52	25.44	255	0.14
69	11.14	33.748	3.61	1.63	19	0.00	221	75	11.02	33.76	3.52	25.83	218	0.20
89	10.74	33.772	3.34	1.77	22	0.00	212	100	10.53	33.80	3.25	25.94	207	0.25
108	10.39	33.818	3.18	1.91	24	0.01	203	125	10.22	33.85	3.07	26.04	198	0.30
138	10.10	33.879	2.95	2.00	27	0.01	194	150	9.98	33.90	2.87	26.12	190	0.35
168	9.80	33.941	2.72	2.14	29	0.00	185	200	9.31	34.05	2.37	26.35	169	0.45
202	9.28	34.049	2.34	2.36	36	0.00	168	250	8.80	34.12	1.87	26.48	156	0.53
252	8.78	34.124	1.82	2.57	42	-	155	300	8.34	34.18	1.25	26.60	145	0.61
306	8.29	34.191	1.20	2.84	50	0.00	143							
365	7.88	34.193	1.11	2.92	54	-	137							

OBSERVED							COMPUTED	INTERPOLATED				COMPUTED		
Z	T	S	O_2	PO_4-P	SiO_3-Si	NO_2-N	δ_T	Z	T	S	O_2	σ_t	δ_T	ΔD
m	°C	‰	ml/L	µg at/L	µg at/L	µg at/L	cl/ton	m	°C	‰	ml/L	g/L	cl/ton	dyn m
ALEXANDER AGASSIZ; January 13, 1964; 1129 GCT; 34°01'N, 120°36.5'W; sounding, 580 fm; wind, 340°, force 4; weather, clear; sea, missing; wire angle, 22°.														82.55
0	14.08	33.607					286	0	14.08	33.61		25.12	286	0.00
10	14.07	33.603					286	10	14.07	33.60		25.11	286	0.03
28	13.88	33.596					283	20	14.03	33.60		25.12	285	0.06
38	13.62	33.596					278	30	13.84	33.60		25.16	282	0.09
51	12.12	33.616					248	50	12.30	33.61		25.47	252	0.14
65	11.54	33.667					234	75	11.31	33.69		25.72	228	0.20
89	10.90	33.754					216	100	10.65	33.80		25.92	209	0.25
109	10.46	33.843					202	125	10.08	33.92		26.12	191	0.31
127	10.05	33.922					190	150	9.72	34.00		26.24	179	0.35
146	9.76	33.989					180	200	9.12	34.12		26.43	161	0.44
173	9.51	34.044					172	250	8.47	34.16		26.56	148	0.52
207	8.99	34.137					157	300	8.01	34.19		26.66	139	0.59
234	8.64	34.146					152	400	7.24	34.23		26.80	126	0.73
282	8.16	34.189					141	500	6.43	34.26		26.93	113	0.86
334	7.76	34.204					135	600	(5.75)	(34.32)		(27.07)	(100)	(0.97)
414	7.12	34.231					124							
497	6.44	34.261					113							
581	5.88	34.315					102							
ALEXANDER AGASSIZ; January 13, 1964; 1436 GCT; 33°56.5'N, 120°45'W; sounding, 1020 fm; wind, 340°, force 4; weather, clear; sea, missing; wire angle, 20°.														82.57
0	13.91	33.594	5.86	0.59	5	0.04	283	0	13.91	33.59	5.86	25.14	284	0.00
10	13.90	33.594	5.80	0.59	5	0.05	283	10	13.90	33.59	5.80	25.14	283	0.03
33	13.91	33.593	5.73	0.62	5	0.04	283	20	13.90	33.59	5.75	25.14	283	0.06
62	11.62	33.584	4.35	1.34	14	0.07	241	30	13.90	33.59	5.73	25.14	283	0.09
87	10.55	33.646	4.10	1.59	18	0.00	219	50	13.70	33.59	5.60	25.18	280	0.14
101	10.22	33.730	3.77	1.74	21	0.00	207	75	11.00	33.62	4.21	25.72	228	0.21
115	9.79	33.828	3.36	1.92	25	0.00	193	100	10.27	33.72	3.82	25.93	208	0.26
143	9.27	33.947	2.95	2.16	31	0.00	176	125	9.60	33.88	3.13	26.17	186	0.31
162	8.99	34.015	2.69	2.18	34	-	166	150	9.18	33.98	2.84	26.31	172	0.36
185	8.64	34.065	2.46	2.40	39	0.00	158	200	8.49	34.09	2.33	26.51	153	0.44
218	8.30	34.107	2.20	2.56	42	-	149	250	7.98	34.12	1.97	26.61	144	0.52
274	7.74	34.135	1.81	2.76	50	0.00	139	300	7.53	34.16	1.55	26.70	135	0.59
331	7.28	34.182	1.32	2.94	58	-	130	400	6.77	34.23	1.15	26.87	119	0.72
416	6.66	34.240	1.09	3.22	69	0.00	117	500	6.11	34.26	0.57	26.98	109	0.84
542	5.88	34.280	0.44	3.37	84	-	105	600	5.65	34.31	0.47	27.07	100	0.95
653	5.43	34.346	0.53	3.40	97	0.00	95	700	5.17	34.37	0.57	27.18	90	1.05
815	4.58	34.418	0.65	3.54	111	0.00	80	800	4.65	34.41	0.64	27.27	81	1.15
982	4.06	34.468	0.74	3.56	125	0.00	71	1000	4.00	34.47	0.79	27.39	70	1.32
1184	3.54	34.501	1.02	3.46	138	0.00	63	1200	3.52	34.50	1.04	27.46	63	1.47
1264	3.41	34.512	1.05	3.39	138	-	61							
ALEXANDER AGASSIZ; January 13, 1964; 1707 GCT; 33°51'N, 120°57'W; sounding, 1380 fm; wind, 330°, force 4; weather, clear; sea, rough; wire angle, 22°.														82.60
0	13.94	33.600					283	0	13.94	33.60		25.14	283	0.00
9	13.90	33.600					283	10	13.89	33.60		25.15	282	0.03
32	13.78	33.592					281	20	13.84	33.60		25.16	282	0.06
60	10.99	33.627					227	30	13.79	33.59		25.16	281	0.08
69	10.62	33.669					218	50	11.60	33.62		25.61	238	0.14
87	10.09	33.767					202	75	10.44	33.70		25.88	213	0.19
102	9.78	33.821					193	100	9.82	33.81		26.07	195	0.24
115	9.58	33.852					188	125	9.45	33.88		26.19	184	0.29
142	9.20	33.934					176	150	9.04	33.96		26.32	171	0.34
161	8.84	34.014					164	200	8.39	34.12		26.55	150	0.42
189	8.58	34.107					154	250	8.06	34.21		26.67	138	0.49
221	8.04	34.130					144	300	7.30	34.18		26.75	130	0.56
249	8.07	34.216					138	400	6.63	34.24		26.89	117	0.69
295	7.36	34.179					131	500	6.05	34.27		26.99	107	0.81
356	6.92	34.224					122	600	5.53	34.33		27.10	97	0.92
451	6.28	34.252					112							
538	5.86	34.295					103							
611	5.46	34.338					95							

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OBSERVED							COMPUTED	INTERPOLATED				COMPUTED		
Z	T	S	O_2	PO_4-P	SiO_3-Si	NO_2-N	δ_T	Z	T	S	O_2	σ_t	δ_T	ΔD
m	°C	‰	ml/L	µg at/L	µg at/L	µg at/L	cl/ton	m	°C	‰	ml/L	g/L	cl/ton	dyn m

82.64 ALEXANDER AGASSIZ; January 13, 1964; 1927 GCT; 33°44'N, 121°12'W; sounding, 1550 fm; wind, 340°, force 4; weather, clear; sea, rough; wire angle, 26°.

0	13.52	33.563	5.94	0.59	5	0.10	278	0	13.52	33.56	5.94	25.19	278	0.00
9	13.50	33.566	5.95	0.59	4	0.09	277	10	13.50	33.57	5.95	25.21	277	0.03
31	13.49	33.569	5.91	0.59	4	0.09	277	20	13.49	33.57	5.93	25.21	277	0.06
58	13.50	33.584	5.76	0.63	4	0.11	276	30	13.49	33.57	5.91	25.21	277	0.08
80	10.53	33.547	4.26	1.63	16	0.00	225	50	13.49	33.58	5.79	25.22	276	0.14
94	10.10	33.634	3.84	1.73	20	0.00	212	75	10.58	33.55	4.28	25.74	226	0.20
108	9.74	33.728	3.56	1.91	25	0.00	199	100	9.98	33.68	3.73	25.95	207	0.26
134	9.18	33.912	2.94	2.17	28	0.00	177	125	9.24	33.89	3.03	26.23	180	0.31
151	9.04	33.958	2.77	2.24	31	-	171	150	9.05	33.95	2.77	26.31	172	0.35
173	8.70	34.018	2.55	2.35	34	0.00	162	200	8.50	34.10	2.08	26.51	153	0.43
203	8.48	34.102	2.04	2.55	40	-	152	250	8.07	34.16	1.60	26.62	142	0.51
255	8.02	34.170	1.56	2.80	46	0.00	141	300	7.69	34.21	1.21	26.72	133	0.58
308	7.62	34.220	1.14	2.97	53	-	132	400	6.95	34.25	0.80	26.86	120	0.71
386	7.04	34.251	0.84	3.10	62	0.00	121	500	6.18	34.28	0.58	26.98	108	0.83
499	6.18	34.281	0.58	3.32	75	-	108	600	5.74	34.31	0.44	27.06	101	0.94
600	5.74	34.306	0.44	3.39	84	0.00	101	700	5.18	34.36	0.45	27.17	91	1.05
745	4.92	34.382	0.47	3.51	99	-	86	800	4.71	34.40	0.51	27.25	83	1.14
897	4.33	34.441	0.61	3.51	110	0.00	76	1000	4.07	34.47	0.68	27.38	71	1.31
1089	3.84	34.483	0.79	3.45	121	-	67							
1167	3.59	34.497	0.83	3.45	131	0.00	64							

82.67 ALEXANDER AGASSIZ; January 13, 1964; 2155 GCT; 33°37.5'N, 121°24.5'W; sounding, 1890 fm; wind, 350°, force 5; weather, partly cloudy; sea, rough; wire angle, 25°.

1	14.18	33.572					290	0	(14.18)	(33.57)		(25.07)	(290)	(0.00)
10	14.14	33.566					290	10	14.14	33.57		25.07	290	0.03
34	14.13	33.564					290	20	14.13	33.57		25.08	289	0.06
60	13.49	33.511					281	30	14.13	33.57		25.08	289	0.09
70	11.28	33.474					244	50	14.12	33.57		25.08	289	0.15
89	10.46	33.548					224	75	10.99	33.49		25.62	237	0.21
102	10.04	33.675					208	100	10.13	33.66		25.90	211	0.27
115	9.52	33.767					193	125	9.32	33.84		26.18	184	0.32
142	9.06	33.926					174	150	8.95	33.95		26.33	171	0.36
161	8.79	33.982					166	200	8.28	34.04		26.50	154	0.45
188	8.40	34.027					157	250	7.73	34.10		26.63	142	0.52
219	8.12	34.068					150	300	7.45	34.14		26.70	135	0.59
246	7.76	34.099					142	400	6.80	34.24		26.87	119	0.73
290	7.51	34.137					136	500	6.10	34.28		26.99	107	0.85
348	7.16	34.209					126	600	(5.49)	(34.33)		(27.11)	(96)	(0.95)
438	6.56	34.253					115							
521	5.94	34.297					104							
594	5.52	34.330					97							

8344A ALEXANDER AGASSIZ; January 12, 1964; 1249 GCT; 34°15'N, 119°43'W; sounding, 112 fm; wind, 090°, force 1; weather, clear; sea, missing; wire angle, 00°.

0	15.22	33.649	5.84	0.41	3	0.01	306	0	15.22	33.65	5.84	24.90	306	0.00
15	15.24	33.651	5.90	0.40	3	0.01	306	10	15.23	33.65	5.88	24.90	306	0.03
30	15.23	33.648	5.91	0.40	3	0.00	306	20	15.23	33.65	5.90	24.90	306	0.06
45	15.22	33.647	5.88	0.40	3	0.01	306	30	15.23	33.65	5.91	24.90	306	0.09
60	15.09	33.636	5.92	0.45	3	0.03	304	50	15.20	33.64	5.90	24.90	306	0.15
75	13.29	33.592	5.10	0.96	8	0.03	271	75	13.29	33.59	5.10	25.26	272	0.23
90	12.26	33.612	4.57	1.25	12	0.05	251	100	11.70	33.67	4.18	25.63	236	0.29
105	11.46	33.698	4.00	1.56	17	0.03	230	125	10.90	33.78	3.50	25.86	214	0.35
121	11.00	33.761	3.59	1.77	21	0.02	218	150	10.26	33.89	3.06	26.06	196	0.40
136	10.64	33.819	3.36	1.91	24	0.01	207							
151	10.22	33.894	3.05	2.10	27	0.00	195							
166	9.86	33.969	2.70	2.25	30	-	183							

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OBSERVED							COMPUTED	INTERPOLATED				COMPUTED		
Z	T	S	O_2	PO_4-P	SiO_3-Si	NO_2-N	δ_T	Z	T	S	O_2	σ_t	δ_T	ΔD
m	°C	‰	ml/L	µg at/L	µg at/L	µg at/L	cl/ton	m	°C	‰	ml/L	g/L	cl/ton	dyn m
ALEXANDER AGASSIZ; January 12, 1964; 1005 GCT; 34°08'N, 119°57.5'W; sounding, 95 fm; wind, 090°, force 4; weather, clear; sea, missing; wire angle, 18°.														83.47A
0	14.52	33.617					294	0	14.52	33.62		25.03	294	0.00
10	14.27	33.623					288	10	14.27	33.62		25.08	289	0.03
28	13.11	33.638					265	20	13.72	33.63		25.21	277	0.06
38	13.10	33.637					265	30	13.11	33.64		25.34	264	0.08
53	12.73	33.655					256	50	12.83	33.65		25.40	258	0.14
67	12.42	33.674					249	75	11.98	33.68		25.59	241	0.20
82	11.53	33.698					231	100	10.75	33.78		25.89	212	0.26
102	10.70	33.790					210	125	10.17	33.90		26.09	194	0.31
126	10.16	33.901					193	150	9.82	33.98		26.21	182	0.36
151	9.82	33.977					182							
ALEXANDER AGASSIZ; January 12, 1964; 0610 GCT; 33°53.5'N, 120°28'W; sounding, 418 fm; wind, 360°, force 2; weather, missing; sea, missing; wire angle, 00°.														83.55A
0	14.03	33.614					284	0	14.03	33.61		25.13	285	0.00
10	14.00	33.619					283	10	14.00	33.62		25.14	283	0.03
30	13.67	33.609					278	20	13.72	33.61		25.19	278	0.06
55	11.62	33.66					236	30	13.67	33.61		25.20	277	0.08
65	11.16	33.716					224	50	11.98	33.65		25.57	243	0.14
75	10.86	33.785					213	75	10.86	33.78		25.87	214	0.19
90	10.72	33.81					209	100	10.58	33.84		25.97	205	0.25
105	10.48	33.855					202	125	10.12	33.91		26.10	192	0.30
130	10.03	33.929					189	150	9.82	33.97		26.20	183	0.34
150	9.82	33.970					183	200	9.24	34.12		26.41	163	0.43
175	9.56	34.044					173	250	8.59	34.18		26.56	148	0.51
205	9.17	34.131					161	300	8.08	34.18		26.64	141	0.59
235	8.80	34.180					151	400	7.40	34.25		26.79	126	0.73
275	8.24	34.171					144	500	6.29	34.27		26.96	110	0.85
336	7.84	34.200					136							
410	7.32	34.256					125							
485	6.40	34.268					112							
566	5.86	34.311					102							
ALEXANDER AGASSIZ; January 12, 1964; 0336 GCT; 33°47.5'N, 120°39.5'W; sounding, 930 fm; wind, 340°, force 2; weather, missing; sea, high; wire angle, 03°.														83.57A
0	14.03	33.609					285	0	14.03	33.61		25.13	285	0.00
10	13.91	33.607					282	10	13.91	33.61		25.15	282	0.03
30	13.86	33.605					282	20	13.88	33.61		25.16	282	0.06
60	10.96	33.626					227	30	13.86	33.60		25.16	282	0.08
70	10.76	33.649					222	50	13.25	33.61		25.29	269	0.14
86	10.15	33.732					206	75	10.58	33.67		25.84	217	0.20
101	9.80	33.790					196	100	9.82	33.79		26.06	196	0.25
116	9.56	33.848					188	125	9.45	33.87		26.18	184	0.30
141	9.22	33.908					178	150	9.04	33.95		26.31	172	0.35
161	8.84	33.996					166	200	8.70	34.07		26.46	158	0.43
191	8.81	34.048					161	250	8.10	34.19		26.64	140	0.51
221	8.38	34.131					149	300	7.50	34.25		26.78	128	0.58
251	8.09	34.195					140	400	6.79	34.26		26.89	117	0.70
301	7.48	34.244					128	500	6.20	34.30		27.00	107	0.82
356	7.11	34.251					122	600	5.49	34.33		27.11	96	0.93
441	6.48	34.273					113							
526	6.05	34.307					105							
611	5.40	34.340					95							

SIO

CCOFI 6401

OBSERVED							COMPUTED	INTERPOLATED				COMPUTED		
Z	T	S	O_2	PO_4-P	SiO_3-Si	NO_2-N	δ_T	Z	T	S	O_2	σ_t	δ_T	ΔD
m	°C	‰	ml/L	µg at/L	µg at/L	µg at/L	cl/ton	m	°C	‰	ml/L	g/L	cl/ton	dyn m

83.60A ALEXANDER AGASSIZ; January 12, 1964; 0051 GCT; 33°42.5'N, 120°51'W; sounding, 780 fm; wind, 340°, force 2; weather, cloudy; sea, high; wire angle, 12°.

0	14.15	33.603					287	0	14.15	33.60		25.09	288	0.00
10	13.72	33.600					279	10	13.72	33.60		25.18	279	0.03
30	13.57	33.599					276	20	13.65	33.60		25.20	278	0.06
59	11.57	33.615					238	30	13.57	33.60		25.21	276	0.08
68	10.86	33.667					222	50	13.40	33.60		25.25	273	0.14
83	10.45	33.706					212	75	10.67	33.68		25.83	218	0.20
98	9.90	33.787					198	100	9.84	33.79		26.06	196	0.25
113	9.63	33.832					190	125	9.48	33.87		26.18	185	0.30
137	9.29	33.914					179	150	9.05	33.95		26.31	172	0.35
158	8.88	33.973					168	200	8.38	34.04		26.48	156	0.43
187	8.55	34.021					160	250	7.86	34.11		26.62	143	0.51
216	8.17	34.057					151	300	7.44	34.16		26.72	134	0.58
245	7.90	34.099					144	400	6.70	34.25		26.89	117	0.71
294	7.49	34.157					134	500	6.02	34.27		27.00	107	0.83
347	7.06	34.202					125	600	(5.45)	(34.34)		(27.12)	(95)	(0.94)
431	6.49	34.264					113							
514	5.92	34.276					105							
598	5.46	34.340					95							

83.64A ALEXANDER AGASSIZ; January 11, 1964; 2207 GCT; 33°35.5'N, 121°05.5'W; sounding, 1820 fm; wind, 340°, force 3; weather, partly cloudy; sea, high; wire angle, 11°.

0	13.62	33.582					279	0	13.62	33.58		25.19	279	0.00
10	13.56	33.582					277	10	13.56	33.58		25.20	278	0.03
30	13.53	33.580					277	20	13.54	33.58		25.21	277	0.06
60	13.47	33.573					276	30	13.53	33.58		25.21	277	0.08
69	11.20	33.493					241	50	13.49	33.58		25.22	276	0.14
84	10.30	33.623					216	75	11.00	33.51		25.64	236	0.20
99	9.82	33.758					198	100	9.80	33.76		26.04	198	0.26
113	9.44	33.838					187	125	9.25	33.88		26.22	180	0.31
137	9.08	33.937					174	150	8.86	33.98		26.36	167	0.35
158	8.74	34.006					163	200	8.40	34.11		26.54	151	0.43
187	8.50	34.088					154	250	7.74	34.15		26.67	138	0.51
216	8.26	34.119					148	300	7.35	34.19		26.75	130	0.57
245	7.79	34.142					140	400	6.66	34.25		26.90	117	0.70
293	7.42	34.191					131	500	6.09	34.30		27.01	106	0.82
347	6.90	34.202					123	600	(5.46)	(34.35)		(27.13)	(95)	(0.93)
430	6.52	34.275					113							
514	6.00	34.305					104							
598	5.48	34.348					95							

83.67A ALEXANDER AGASSIZ; January 11, 1964; 1921 GCT; 33°29'N, 121°18.5'W; sounding, 1490 fm; wind, 340°, force 4; weather, cloudy; sea, very rough; wire angle, 20°.

1	13.84	33.534					286	0	(13.84)	(33.53)		(25.11)	(287)	(0.00)
10	13.79	33.531					286	10	13.79	33.53		25.12	286	0.03
29	13.79	33.531					286	20	13.79	33.53		25.12	286	0.06
58	13.79	33.527					286	30	13.79	33.53		25.12	286	0.09
66	13.54	33.538					280	50	13.79	33.53		25.12	286	0.14
80	11.18	33.610					232	75	11.80	33.58		25.54	245	0.21
95	10.58	33.675					217	100	10.40	33.70		25.89	212	0.27
109	10.12	33.738					205	125	9.78	33.78		26.06	196	0.32
132	9.62	33.801					192	150	9.13	33.90		26.26	177	0.37
150	9.13	33.901					177	200	8.38	34.03		26.48	156	0.45
178	8.78	33.986					165	250	7.83	34.08		26.60	145	0.53
207	8.27	34.046					154	300	7.15	34.13		26.73	132	0.60
235	8.04	34.076					148	400	6.51	34.21		26.88	118	0.73
281	7.36	34.107					136	500	5.89	34.29		27.03	104	0.85
333	6.88	34.163					126							
413	6.44	34.225					116							
493	5.92	34.293					104							
575	5.50	34.335					96							

OBSERVED							COMPUTED	INTERPOLATED				COMPUTED		
Z	T	S	O_2	PO_4-P	SiO_3-Si	NO_2-N	δ_T	Z	T	S	O_2	σ_t	δ_T	ΔD
m	°C	‰	ml/L	µg at/L	µg at/L	µg at/L	cl/ton	m	°C	‰	ml/L	g/L	cl/ton	dyn m
ALEXANDER AGASSIZ; January 10, 1964; 1608 GCT; 34°14'N, 119°22.5'W; sounding, 12 fm; wind, 050°, force 2; weather, partly cloudy; sea, moderate; wire angle, 04°.														83.40B
0	15.20	33.638					306	0	15.20	33.64		24.90	306	0.00
5	15.18	33.638					306	10	15.20	33.64		24.90	306	0.03
10	15.20	33.639					306							
15	15.18	33.638					306							
ALEXANDER AGASSIZ; January 10, 1964; 1846 GCT; 34°09'N, 119°31'W; sounding, 111 fm; wind, 110°, force 3; weather, partly cloudy; sea, moderate; wire angle, 12°.														83.42B
0	14.99	33.625					303	0	14.99	33.62		24.93	303	0.00
19	14.68	33.619					297	10	14.84	33.62		24.96	300	0.03
29	14.54	33.627					294	20	14.66	33.62		25.00	296	0.06
43	14.08	33.617					285	30	14.53	33.63		25.04	293	0.09
58	13.30	33.594					271	50	13.88	33.61		25.16	282	0.15
73	12.21	33.656					247	75	12.11	33.66		25.55	244	0.21
93	11.48	33.700					230	100	11.33	33.72		25.74	226	0.27
117	11.04	33.774					217	125	10.90	33.79		25.87	214	0.33
137	10.70	33.832					207	150	10.51	33.90		26.03	199	0.38
156	10.40	33.923					196	200	(9.46)	(34.07)		(26.34)	(170)	(0.47)
171	9.95	33.98					184							
195	9.53	34.055					172							
ALEXANDER AGASSIZ; January 10, 1964; 2054 GCT; 34°05'N, 119°40.5'W; sounding, 48 fm; wind, 280°, force 4; weather, partly cloudy; sea, rough; wire angle, 18°.[a]														83.45B
0	15.06	33.616	5.86	0.40	4	0.04	305	0	15.06	33.62	5.86	24.92	305	0.00
10	15.04	33.618	-	0.40	4	0.05	304	10	15.04	33.62		24.92	304	0.03
19	14.80	33.609	5.77	0.48	4	0.06	300	20	14.70	33.61	5.77	24.99	298	0.06
28	14.54	33.600	5.57	0.56	5	0.09	295	30	14.52	33.60	5.55	25.02	295	0.09
48	13.17	33.600	4.92	0.96	10	0.11	269	50	13.00	33.60	4.82	25.33	265	0.15
67	11.31	33.612	3.82	1.61	19	0.01	234							
ALEXANDER AGASSIZ; January 11, 1964; 0329 GCT; 33°52'N, 120°08.5'W; sounding, 110 fm; wind, 330°, force 6; weather, clear; sea, missing; wire angle, 20°.														83.51B
0	12.94	33.625	5.09	0.96	10	0.05	262	0	12.94	33.62	5.09	25.36	263	0.00
19	12.95	33.617	-	0.96	10	0.05	263	10	12.95	33.62		25.35	263	0.03
34	12.88	33.617	4.82	0.99	10	0.05	262	20	12.95	33.62		25.35	263	0.05
44	12.58	33.620	4.71	1.12	12	0.02	256	30	12.91	33.62		25.36	262	0.08
58	11.32	33.694	3.90	1.55	17	0.01	228	50	11.80	33.66	4.22	25.61	239	0.13
73	11.08	33.732	3.77	1.63	19	0.01	221	75	11.04	33.74	3.74	25.81	220	0.19
93	10.81	33.781	3.47	1.74	22	0.01	213	100	10.68	33.81	3.33	25.93	209	0.24
118	10.26	33.880	2.99	2.00	26	0.01	196	125	10.19	33.90	2.96	26.08	194	0.29
138	10.10	33.914	2.91	2.08	28	0.00	191	150	10.04	33.92	2.84	26.12	190	0.34
167	9.95	33.934	2.75	2.13	29	0.00	187							
193	9.78	33.975	2.67	2.19	30	0.00	182							

a) Estimated wire angle.

OBSERVED							COMPUTED	INTERPOLATED				COMPUTED		
Z	T	S	O_2	PO_4-P	SiO_3-Si	NO_2-N	δ_T	Z	T	S	O_2	σ_t	δ_T	ΔD
m	°C	‰	ml/L	µg at/L	µg at/L	µg at/L	cl/ton	m	°C	‰	ml/L	g/L	cl/ton	dyn m

83.53B ALEXANDER AGASSIZ; January 11, 1964; 0537 GCT; 33°47.5'N, 120°16'W; sounding, 460 fm; wind, 330°, force 6; weather, clear; sea, missing; wire angle, 38°.

2	14.11	33.605					286	0	(14.11)	(33.60)		(25.10)	(287)	(0.00)
10	14.10	33.600					287	10	14.10	33.60		25.11	287	0.03
26	14.08	33.603					286	20	14.09	33.60		25.11	286	0.06
33	13.90	33.600					283	30	14.02	33.60		25.12	285	0.09
41	12.50	33.609					255	50	11.75	33.66		25.62	238	0.14
52	11.63	33.664					236	75	10.85	33.79		25.88	213	0.20
63	11.11	33.754					220	100	10.35	33.87		26.03	199	0.25
78	10.79	33.799					211	125	9.87	33.97		26.19	183	0.30
97	10.42	33.864					200	150	9.69	34.02		26.26	177	0.34
112	10.08	33.912					191	200	9.21	34.13		26.42	161	0.43
135	9.77	34.001					180	250	8.92	34.20		26.53	152	0.51
156	9.64	34.022					176	300	8.56	34.22		26.60	145	0.58
178	9.31	34.12					164	400	7.29	34.21		26.78	128	0.73
208	9.17	34.141					160	500	(6.45)	(34.27)		(26.94)	(112)	(0.85)
254	8.90	34.202					151							
315	8.42	34.218					143							
381	7.47	34.195					131							
456	6.80	34.244					119							

83.55B ALEXANDER AGASSIZ; January 11, 1964; 0757 GCT; 33°44'N, 120°24.5'W; sounding, 560 fm; wind, 340°, force 5; weather, missing; sea, missing; wire angle, 34°.[a)]

3	14.0	33.597	5.71	0.64	6	0.04	285	0	14.0	(33.60)	(5.71)	(25.13)	(285)	(0.00)
11	13.91	33.595	5.68	0.63	6	0.05	283	10	13.9	33.60	5.68	25.15	283	0.03
34	13.90	33.596	5.64	0.64	6	0.05	283	20	13.90	33.60	5.66	25.15	283	0.06
42	13.60	33.596	5.28	0.73	8	0.04	277	30	13.90	33.60	5.66	25.15	283	0.09
56	11.78	33.653	4.16	1.38	15	0.02	239	50	11.87	33.64	4.22	25.58	242	0.14
71	11.56	33.669	4.02	1.48	16	0.01	234	75	11.42	33.68	3.97	25.69	231	0.20
92	10.69	33.723	3.73	1.74	20	0.00	215	100	10.44	33.73	3.69	25.91	210	0.25
111	10.10	33.745	3.60	1.80	23	0.00	204	125	9.70	33.84	3.32	26.12	190	0.30
128	9.62	33.854	3.28	1.98	27	0.00	188	150	9.33	33.92	3.06	26.24	179	0.35
155	9.25	33.932	3.01	2.10	31	0.00	177	200	8.62	34.09	2.25	26.49	155	0.44
183	8.74	34.028	2.60	2.32	37	-	162	250	8.23	34.19	1.57	26.62	142	0.51
220	8.48	34.155	1.86	2.56	44	-	149	300	7.93	34.24	1.17	26.71	134	0.58
247	8.25	34.189	1.61	2.67	48	0.00	143	400	6.94	34.22	0.98	26.83	122	0.72
294	7.98	34.241	1.17	2.88	52	-	135	500	6.23	34.29	0.54	26.98	108	0.84
354	7.26	34.180	1.26	2.88	59	-	130	600	5.70	34.33	0.46	27.08	99	0.95
449	6.61	34.271	0.67	3.22	72	0.00	114							
536	5.97	34.305	0.50	3.29	82	-	104							
611	5.66	34.329	0.46	3.35	89	0.00	98							

83.58B ALEXANDER AGASSIZ; January 11, 1964; 1102 GCT; 33°38'N, 120°34.5'W; sounding, 655 fm; wind, 350°, force 6; weather, clear; sea, missing; wire angle, 30°.

2	13.43	33.582					275	0	(13.43)	(33.58)		(25.23)	(275)	(0.00)
11	13.42	33.585					274	10	13.42	33.58		25.23	275	0.03
33	13.45	33.583					275	20	13.43	33.58		25.23	275	0.06
41	13.45	33.580					275	30	13.45	33.58		25.22	275	0.08
54	13.38	33.580					274	50	13.42	33.58		25.23	275	0.14
67	11.48	33.578					239	75	10.90	33.62		25.74	226	0.20
88	10.18	33.703					208	100	9.94	33.76		26.01	200	0.25
106	9.82	33.781					197	125	9.45	33.85		26.17	186	0.30
122	9.51	33.841					187	150	9.08	33.94		26.30	173	0.35
148	9.12	33.928					175	200	8.27	34.03		26.49	155	0.43
173	8.76	34.006					164	250	7.71	34.09		26.62	142	0.51
208	8.14	34.036					152	300	7.25	34.14		26.73	132	0.58
234	7.95	34.087					146	400	6.79	34.25		26.88	118	0.71
277	7.30	34.095					136	500	6.17	34.29		26.99	107	0.83
335	7.20	34.220					126	600	(5.74)	(34.33)		(27.08)	(99)	(0.94)
424	6.62	34.258					115							
508	6.12	34.300					106							
581	5.81	34.321					101							

a) Wire angle decreased to 29° as cast started up.

OBSERVED							COMPUTED	INTERPOLATED				COMPUTED		
Z	T	S	O_2	PO_4-P	SiO_3-Si	NO_2-N	δ_T	Z	T	S	O_2	σ_t	δ_T	ΔD
m	°C	‰	ml/L	µg at/L	µg at/L	µg at/L	cl/ton	m	°C	‰	ml/L	g/L	cl/ton	dyn m
ALEXANDER AGASSIZ; January 11, 1964; 1329 GCT; 33°34'N, 120°45'W; sounding, 790 fm; wind, 350°, force 5; weather, clear; sea, missing; wire angle, 25°.[a]														83.60B
1	13.48	33.60	-	0.67	6	0.10	275	0	(13.48)	(33.60)		(25.23)	(275)	(0.00)
11	13.44	33.594	4.98	0.67	6	0.10	274	10	13.44	33.59		25.23	274	0.03
35	13.46	33.60	5.69	0.69	6	0.10	274	20	13.45	33.60		25.24	274	0.05
44	13.46	33.594	5.69	0.69	6	0.10	275	30	13.46	33.60		25.24	274	0.08
59	11.32	33.617	4.12	1.42	15	0.02	234	50	11.80	33.61	4.46	25.57	243	0.13
73	10.98	33.703	3.68	1.60	18	0.01	222	75	10.92	33.71	3.66	25.81	220	0.19
97	9.95	33.741	3.56	1.77	22	0.00	202	100	9.83	33.76	3.50	26.03	198	0.25
115	9.50	33.845	3.13	1.98	27	-	187	125	9.33	33.90	2.98	26.23	180	0.29
134	9.19	33.933	2.89	2.07	30	0.00	176	150	8.88	33.98	2.70	26.36	167	0.34
163	8.64	34.015	2.52	2.27	36	-	161	200	8.28	34.08	2.10	26.53	151	0.42
192	8.33	34.075	2.19	2.43	41	0.00	152	250	7.83	34.14	1.63	26.64	140	0.49
229	8.06	34.113	1.90	2.57	46	-	146	300	7.57	34.18	1.35	26.71	134	0.56
258	7.76	34.151	1.54	2.74	51	0.00	139	400	6.66	34.22	0.84	26.87	119	0.70
305	7.53	34.184	1.32	2.86	54	-	133	500	6.04	34.28	0.50	27.00	107	0.81
368	6.91	34.204	0.99	3.03	62	0.00	123	600	5.51	34.33	0.43	27.11	97	0.92
464	6.24	34.263	0.52	3.20	76	-	110							
552	5.74	34.31	0.49	3.31	83	0.00	101							
626	5.39	34.34	0.40	3.35	91	-	95							
BLACK DOUGLAS; February 6, 1964;[b] 0943 GCT; 33°34'N, 120°45'W; sounding, 1000 fm; wind, 300°, force 6; weather, clear; sea, very rough; wire angle, 20°.														83.60
1	13.94	33.495	5.76				291	0	(13.94)	(33.50)	(5.76)	(25.06)	(291)	(0.00)
10	13.93	33.497	5.76				291	10	13.93	33.50	5.76	25.06	291	0.03
33	13.84	33.522	5.73				287	20	13.91	33.50	5.76	25.07	290	0.06
61	12.74	33.555	4.99				264	30	13.89	33.51	5.75	25.08	289	0.09
70	11.58	33.522	4.29				245	50	13.36	33.55	5.41	25.22	276	0.14
89	10.30	33.609	3.73				217	75	11.00	33.54	4.01	25.66	234	0.21
102	9.96	33.722	3.35				203	100	9.99	33.71	3.37	25.97	205	0.26
117	9.70	33.786	3.17				194	125	9.55	33.81	3.17	26.12	190	0.31
145	9.06	33.880	3.19				178	150	8.95	33.90	3.18	26.29	174	0.36
162	8.73	33.936	3.11				168	200	8.34	34.03	2.64	26.48	156	0.44
190	8.39	33.989	2.81				160	250	7.89	34.13	1.51	26.63	142	0.52
222	8.22	34.106	1.73				148	300	7.36	34.16	1.17	26.73	132	0.59
250	7.89	34.128	1.51				142	400	6.58	34.22	0.64	26.88	118	0.72
296	7.41	34.156	1.20				133	500	6.14	34.29	0.35	27.00	107	0.84
355	6.80	34.185	0.85				123	600	5.66	34.29	0.43	27.06	101	0.95
449	6.37	34.257	0.45				112							
535	6.00	34.296	0.34				105							
608	5.60	34.286	0.45				101							
ALEXANDER AGASSIZ; January 11, 1964; 1611 GCT; 33°27'N, 120°58.5'W; sounding, 1960 fm; wind, 330°, force 4; weather, partly cloudy; sea, very rough; wire angle, 20°.														83.63B
0	13.7	33.580					280	0	13.7	33.58		25.17	280	0.00
10	13.68	33.578					280	10	13.68	33.58		25.18	280	0.03
33	13.70	33.580					280	20	13.69	33.58		25.17	280	0.06
62	11.16	33.501					239	30	13.70	33.58		25.17	280	0.08
85	10.16	33.647					212	50	13.62	33.57		25.18	279	0.14
99	9.84	33.761					198	75	10.51	33.58		25.78	223	0.20
114	9.41	33.848					185	100	9.81	33.77		26.04	197	0.26
142	8.96	33.948					171	125	9.21	33.89		26.24	179	0.30
162	8.82	34.014					164	150	8.90	33.98		26.36	168	0.35
186	8.45	34.029					157	200	8.23	34.05		26.51	153	0.43
219	7.96	34.093					146	250	7.58	34.10		26.65	140	0.50
275	7.33	34.114					135	300	7.20	34.14		26.74	132	0.57
332	7.06	34.189					126	400	6.72	34.24		26.88	118	0.71
418	6.62	34.256					116	500	6.15	34.29		26.99	107	0.82
542	5.92	34.311					103	600	5.60	34.34		27.10	97	0.93
651	5.34	34.360					92	700	5.11	34.38		27.19	88	1.03
809	4.67	34.422					80	800	4.71	34.42		27.27	81	1.13
974	4.19	34.465					72	1000	4.12	34.47		27.37	71	1.30
1175	3.59	34.514					63	1200	3.54	34.52		27.47	62	1.45
1255	3.42	34.527					60							

a) Estimated wire angle.
b) Note difference in date of occupation of this station and the occupation of other stations on this line.

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OBSERVED							COMPUTED	INTERPOLATED				COMPUTED		
Z	T	S	O_2	PO_4-P	SiO_3-Si	NO_2-N	δ_T	Z	T	S	O_2	σ_t	δ_T	ΔD
m	°C	‰	ml/L	µg at/L	µg at/L	µg at/L	cl/ton	m	°C	‰	ml/L	g/L	cl/ton	dyn m

90.28 ALEXANDER AGASSIZ; February 6, 1964; 0907 GCT; 33°28.5'N, 117°46.5'W; sounding, 120 fm; wind, 070°, force 5; weather, clear; sea, missing; wire angle, 05°.

0	15.30	33.716	5.94	0.40	2	0.02	303	0	15.30	33.72	5.94	24.94	302	0.00
10	15.29	33.712	5.97	0.37	1	0.09	303	10	15.29	33.71	5.97	24.93	303	0.03
30	15.23	33.710	6.02	0.40	1	0.04	302	20	15.27	33.71	6.01	24.94	302	0.06
45	14.38	33.627	5.39	0.58	3	0.33	290	30	15.23	33.71	6.02	24.95	302	0.09
55	13.75	33.604	5.19	0.74	5	0.32	279	50	13.88	33.61	5.22	25.16	282	0.15
70	12.45	33.623	4.20	1.16	9	0.03	253	75	12.20	33.66	4.17	25.53	246	0.22
85	11.92	33.715	4.12	1.34	13	0.01	237	100	11.63	33.73	4.07	25.69	231	0.28
105	11.54	33.738	4.04	1.40	14	0.01	229	125	11.06	33.79	3.66	25.84	216	0.33
130	10.88	33.807	3.49	1.73	18	0.01	212	150	9.88	33.96	2.98	26.18	184	0.38
150	9.88	33.957	2.98	2.07	28	0.03	185	200	9.33	34.11	2.34	26.39	165	0.47
179	9.48	34.051	2.49	-	-	-	171							
204	9.30	34.115	2.31	-	-	-	164							

90.32 ALEXANDER AGASSIZ; February 6, 1964; 1414 GCT; 33°21'N, 118°01.5'W; sounding, 380 fm; wind, direction missing, force 1; weather, clear; sea, missing; wire angle, 01°.

0	15.40	33.723	6.05	0.37	2	0.02	304	0	15.40	33.72	6.05	24.92	304	0.00
10	15.40	33.720	6.02	0.33	2	0.00	304	10	15.40	33.72	6.02	24.92	304	0.03
30	15.38	33.716	6.10	0.35	1	0.00	304	20	15.40	33.72	6.06	24.92	304	0.06
40	14.94	33.696	5.89	0.41	2	0.08	297	30	15.38	33.72	6.10	24.92	304	0.09
50	13.58	33.618	5.30	0.85	5	0.25	275	50	13.58	33.62	5.30	25.23	275	0.15
65	12.53	33.648	4.53	1.28	9	0.05	253	75	11.73	33.69	4.09	25.64	235	0.21
80	11.41	33.710	3.92	1.67	15	0.03	228	100	10.59	33.81	3.52	25.94	207	0.27
100	10.59	33.814	3.52	2.05	21	0.01	207	125	10.12	33.88	3.33	26.08	194	0.32
125	10.12	33.885	3.33	1.95	23	0.00	194	150	9.69	33.94	3.18	26.20	183	0.37
145	9.76	33.934	3.21	2.03	26	0.00	184	200	9.10	34.11	2.40	26.43	161	0.46
175	9.40	34.064	2.74	-	-	-	169	250	8.85	34.21	1.83	26.54	150	0.54
205	9.04	34.117	2.34	-	-	-	160	300	8.40	34.24	1.46	26.64	141	0.61
235	8.92	34.187	1.96	-	-	-	153	400	7.49	34.28	0.88	26.80	125	0.75
275	8.67	34.229	1.63	-	-	-	146	500	6.73	34.32	0.68	26.94	112	0.88
335	8.04	34.275	1.23	-	-	-	133							
410	7.42	34.277	0.85	-	-	-	125							
485	6.86	34.311	0.71	-	-	-	115							
565	6.16	34.337	0.55	-	-	-	104							

90.37 ALEXANDER AGASSIZ; February 6, 1964; 2104 GCT; 33°11'N, 118°22.5'W; sounding, 632 fm; wind, 040°, force 7; weather, partly cloudy; sea, moderate; wire angle, 29°.

1	15.22	33.710	6.15	0.36	1	0.00	301	0	(15.22)	(33.71)	(6.15)	(24.95)	(301)	(0.00)
9	15.20	33.703	6.18	0.40	0	0.00	302	10	15.19	33.70	6.18	24.95	302	0.03
27	14.87	33.687	6.06	0.42	1	0.00	296	20	15.05	33.70	6.13	24.98	299	0.06
35	14.33	33.658	5.51	0.60	2	0.18	287	30	14.71	33.68	5.90	25.04	293	0.09
49	13.08	33.638	4.78	1.01	5	0.07	264	50	13.03	33.64	4.76	25.35	263	0.15
61	12.36	33.665	4.37	1.23	9	0.05	249	75	11.65	33.70	4.17	25.67	233	0.21
83	11.30	33.720	4.06	1.44	10	0.02	226	100	10.91	33.78	3.63	25.86	215	0.26
100	10.91	33.784	3.63	1.66	12	0.01	214	125	10.28	33.86	3.33	26.03	198	0.32
117	10.46	33.840	3.35	1.84	17	0.01	203	150	9.87	33.95	2.98	26.17	185	0.37
135	10.09	33.880	3.30	1.92	19	0.00	194	200	9.38	34.10	2.43	26.37	166	0.45
160	9.75	33.997	2.77	-	-	-	180	250	8.86	34.21	1.83	26.54	150	0.54
190	9.46	34.073	2.63	-	-	-	169	300	8.39	34.25	1.38	26.65	140	0.61
216	9.23	34.151	2.13	-	-	-	160	400	7.46	34.28	0.82	26.81	125	0.75
259	8.76	34.228	1.75	-	-	-	147	500	6.46	34.33	0.60	26.99	108	0.87
306	8.33	34.257	1.33	-	-	-	139							
380	7.66	34.271	0.88	-	-	-	128							
454	6.92	34.309	0.71	-	-	-	116							
530	6.14	34.335	0.52	-	-	-	104							

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OBSERVED							COMPUTED	INTERPOLATED				COMPUTED		
Z	T	S	O_2	PO_4-P	SiO_3-Si	NO_2-N	δ_T	Z	T	S	O_2	σ_t	δ_T	ΔD
m	°C	‰	ml/L	µg at/L	µg at/L	µg at/L	cl/ton	m	°C	‰	ml/L	g/L	cl/ton	dyn m
ALEXANDER AGASSIZ; February 7, 1964; 0225 GCT; 32°54.5'N, 118°55.5'W; sounding, 916 fm; wind, 350°, force 2; weather, partly cloudy; sea, moderate; wire angle, 02°.														90.45
0	15.67	33.687	6.03	0.32	1	0.00	313	0	15.67	33.69	6.03	24.83	312	0.00
10	15.66	33.685	6.02	0.33	1	0.00	313	10	15.66	33.68	6.02	24.83	313	0.03
30	15.52	33.684	6.06	0.33	1	0.00	310	20	15.58	33.68	6.05	24.85	311	0.06
40	15.16	33.654	5.91	0.38	2	0.02	304	30	15.52	33.68	6.06	24.86	310	0.09
55	13.64	33.559	5.45	0.73	4	0.22	281	50	13.96	33.57	5.53	25.11	286	0.15
70	12.43	33.524	4.96	1.03	8	0.06	260	75	12.30	33.53	4.89	25.41	258	0.22
95	11.22	33.618	4.29	1.46	13	0.02	232	100	11.13	33.65	4.09	25.72	228	0.28
116	10.94	33.787	3.47	1.71	18	0.01	215	125	10.73	33.83	3.32	25.93	208	0.34
136	10.42	33.874	3.19	1.89	21	0.00	200	150	10.01	33.94	3.07	26.14	188	0.39
156	9.88	33.959	3.05	2.04	25	0.00	184	200	9.22	34.08	2.49	26.38	165	0.48
186	9.36	34.044	2.70	-	-	-	170	250	8.78	34.20	1.70	26.55	150	0.56
221	9.05	34.141	2.09	-	-	-	158	300	7.88	34.16	1.74	26.65	140	0.63
251	8.78	34.206	1.70	-	-	-	149	400	7.09	34.23	0.92	26.82	124	0.77
301	7.88	34.155	1.75	-	-	-	140	500	6.40	34.28	0.60	26.95	111	0.90
356	7.49	34.218	1.34	-	-	-	130	600	5.77	34.34	0.48	27.08	99	1.01
441	6.73	34.229	0.68	-	-	-	119							
526	6.28	34.307	0.61	-	-	-	108							
610	5.69	34.339	0.46	-	-	-	98							
ALEXANDER AGASSIZ; February 7, 1964; 0959 GCT; 32°39'N, 119°28.5'W; sounding, 640 fm; wind, 040°, force 3; weather, partly cloudy; sea, moderate; wire angle, 08°.														90.53
0	14.38	33.427	6.02	0.45	3	0.02	305	0	14.38	33.43	6.02	24.92	305	0.00
10	14.37	33.420	6.03	0.37	3	0.03	305	10	14.37	33.42	6.03	24.91	305	0.03
30	14.24	33.440	6.05	0.41	3	0.06	301	20	14.29	33.43	6.04	24.93	303	0.06
59	12.42	33.433	5.30	0.84	7	0.14	267	30	14.24	33.44	6.05	24.95	301	0.09
69	12.01	33.503	5.10	0.96	9	0.15	254	50	13.40	33.44	5.65	25.13	285	0.15
84	11.20	33.511	4.75	1.21	12	0.07	239	75	11.88	33.51	5.03	25.48	251	0.22
99	10.40	33.582	4.36	1.48	17	0.02	221	100	10.38	33.59	4.34	25.81	220	0.28
114	10.00	33.694	3.92	1.64	19	0.01	206	125	9.84	33.75	3.74	26.02	199	0.33
138	9.62	33.830	3.48	1.30	24	0.01	190	150	9.30	33.91	3.18	26.24	179	0.38
158	9.10	33.965	2.96	2.19	30	0.00	172	200	8.64	34.06	2.53	26.46	158	0.46
188	8.82	34.059	2.56	-	-	-	161	250	8.04	34.11	2.02	26.59	146	0.54
217	8.36	34.062	2.50	-	-	-	154	300	7.52	34.19	1.42	26.73	132	0.61
247	8.08	34.111	2.08	-	-	-	146	400	6.92	34.25	0.82	26.86	120	0.74
297	7.54	34.182	1.44	-	-	-	133	500	6.35	34.30	0.58	26.98	109	0.87
351	7.14	34.222	0.98	-	-	-	125	600	5.73	34.34	0.51	27.09	98	0.98
436	6.75	34.271	0.73	-	-	-	116							
521	6.21	34.315	0.55	-	-	-	106							
605	5.69	34.340	0.50	-	-	-	98							
ALEXANDER AGASSIZ; February 7, 1964; 1753 GCT; 32°25'N, 119°57.5'W; sounding, 520 fm; wind, 030°, force 2; weather, clear; sea, moderate; wire angle, 00°.														90.60
0	14.22	33.45	6.21	0.41	2	0.02	300	0	14.22	33.45	6.21	24.96	300	0.00
10	14.15	33.434	6.25	0.40	2	0.03	300	10	14.15	33.43	6.25	24.96	300	0.03
30	14.09	33.435	6.14	0.42	2	0.08	299	20	14.12	33.43	6.18	24.97	300	0.06
55	13.58	33.483	5.57	0.63	4	0.34	285	30	14.09	33.44	6.14	24.98	298	0.09
65	12.80	33.434	5.45	0.80	6	0.08	274	50	13.75	33.47	5.70	25.08	289	0.15
75	11.56	33.400	5.06	1.10	9	0.03	254	75	11.56	33.40	5.06	25.45	254	0.22
91	10.87	33.454	4.69	1.27	11	0.02	238	100	10.60	33.50	4.62	25.70	230	0.28
106	10.42	33.525	4.58	1.39	14	0.01	225	125	9.76	33.65	4.20	25.96	205	0.33
131	9.57	33.698	4.07	1.64	19	0.01	199	150	9.13	33.84	3.83	26.21	182	0.38
151	9.12	33.845	3.83	1.83	25	0.00	181	200	8.42	33.97	3.44	26.42	161	0.47
176	8.83	33.917	3.71	-	-	-	171	250	7.72	34.03	2.81	26.57	147	0.55
206	8.32	33.987	3.33	-	-	-	159	300	7.08	34.05	2.29	26.68	137	0.62
236	7.90	34.022	2.93	-	-	-	150	400	6.76	34.25	0.77	26.88	118	0.75
276	7.38	34.026	2.61	-	-	-	143	500	6.18	34.30	0.60	27.00	107	0.87
336	6.68	34.088	1.73	-	-	-	129							
411	6.76	34.269	0.68	-	-	-	116							
486	6.28	34.302	0.61	-	-	-	108							
566	5.72	34.328	0.51	-	-	-	99							

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OBSERVED							COMPUTED	INTERPOLATED				COMPUTED		
Z	T	S	O_2	PO_4-P	SiO_3-Si	NO_2-N	δ_T	Z	T	S	O_2	σ_t	δ_T	ΔD
m	°C	‰	ml/L	µg at/L	µg at/L	µg at/L	cl/ton	m	°C	‰	ml/L	g/L	cl/ton	dyn m

90.70 ALEXANDER AGASSIZ; February 8, 1964; 0231 GCT; 32°05'N, 120°38'W; sounding, 2040 fm; wind, 320°, force 3; weather, cloudy; sea, very rough; wire angle, 06°.

0	15.10	33.274	6.11	0.35	2	0.01	331	0	15.10	33.27	6.11	24.64	331	0.00
10	14.88	33.264	6.14	0.35	1	0.01	327	10	14.88	33.26	6.14	24.68	327	0.03
30	14.82	33.262	6.07	0.40	2	0.01	326	20	14.85	33.26	6.10	24.68	327	0.07
60	14.17	33.271	6.07	0.43	2	0.02	312	30	14.82	33.26	6.07	24.69	326	0.10
70	13.85	33.330	6.07	0.46	4	0.05	302	50	14.57	33.26	6.07	24.74	321	0.16
85	13.04	33.367	5.70	0.65	5	0.03	283	75	13.70	33.36	5.99	25.00	296	0.24
100	11.96	33.376	5.31	0.94	8	0.01	263	100	11.96	33.38	5.31	25.36	262	0.31
114	10.58	33.505	4.58	1.38	15	0.02	229	125	10.23	33.56	4.37	25.81	220	0.37
139	9.82	33.647	4.11	1.64	22	0.01	207	150	9.48	33.74	3.87	26.08	194	0.42
160	9.17	33.823	3.68	1.88	27	0.01	183	200	8.54	33.98	3.27	26.41	162	0.52
190	8.67	33.952	3.45	-	-	-	166	250	7.72	34.04	2.64	26.58	146	0.59
220	8.26	34.021	2.93	-	-	-	155	300	7.12	34.05	2.35	26.68	137	0.67
250	7.72	34.039	2.64	-	-	-	146	400	6.30	34.14	1.23	26.86	120	0.80
299	7.12	34.053	2.35	-	-	-	137	500	5.74	34.21	0.75	26.98	108	0.92
354	6.58	34.107	1.56	-	-	-	126	600	5.37	34.31	0.49	27.11	97	1.03
439	6.08	34.174	0.99	-	-	-	115							
523	5.63	34.222	0.67	-	-	-	106							
608	5.34	34.320	0.47	-	-	-	95							

90.80 ALEXANDER AGASSIZ; February 8, 1964; 1153 GCT; 31°44'N, 121°19'W; sounding, 2060 fm; wind, 340°, force 4; weather, clear; sea, moderate; wire angle, 26°.

0	15.10	33.306	5.97	0.33	1	0.00	328	0	15.10	33.31	5.97	24.67	328	0.00
10	15.08	33.296	5.96	0.33	1	0.00	329	10	15.08	33.30	5.96	24.67	329	0.03
27	15.10	33.300	5.96	0.35	0	0.00	329	20	15.09	33.30	5.96	24.66	329	0.07
36	15.03	33.296	5.91	0.33	0	0.00	328	30	15.09	33.30	5.94	24.66	329	0.10
49	14.49	33.285	6.02	0.37	1	0.01	318	50	14.48	33.29	6.03	24.79	317	0.16
62	14.35	33.312	6.04	0.36	1	0.02	313	75	14.20	33.31	6.02	24.86	310	0.24
84	13.36	33.274	5.85	0.51	2	0.26	296	100	12.49	33.27	5.63	25.17	280	0.32
101	12.44	33.267	5.61	0.70	4	0.03	279	125	10.51	33.37	4.99	25.61	238	0.38
119	10.77	33.309	5.11	1.11	10	0.01	247	150	9.83	33.64	4.46	25.94	207	0.44
136	10.36	33.543	4.77	1.24	14	0.00	223	200	8.89	33.91	3.37	26.30	173	0.54
162	9.50	33.707	4.16	-	-	-	197	250	8.15	34.00	3.09	26.49	155	0.62
191	8.97	33.885	3.44	-	-	-	176	300	7.26	34.04	2.45	26.65	140	0.70
217	8.76	33.946	3.28	-	-	-	168	400	6.30	34.11	1.21	26.83	123	0.83
260	7.96	34.011	3.00	-	-	-	152	500	5.67	34.19	0.74	26.98	109	0.95
308	7.14	34.041	2.31	-	-	-	138							
380	6.45	34.093	1.40	-	-	-	126							
454	5.96	34.150	0.96	-	-	-	115							
528	5.50	34.222	0.61	-	-	-	105							

90.90 ALEXANDER AGASSIZ; February 8, 1964; 1846 GCT; 31°25'N, 121°59.5'W; sounding, 2075 fm; wind, 340°, force 4; weather, partly cloudy; sea, rough; wire angle, 12°.

0	15.40	33.314	5.98	0.37	1	0.00	334	0	15.40	33.31	5.98	24.60	334	0.00
10	15.36	33.307	5.96	0.36	1	0.00	334	10	15.36	33.31	5.96	24.61	334	0.03
44	15.36	33.304	5.99	0.37	1	0.00	334	20	15.36	33.31	5.97	24.61	334	0.07
73	15.35	33.300	5.89	0.39	1	0.00	334	30	15.36	33.30	5.98	24.60	334	0.10
93	15.31	33.302	5.99	0.41	1	0.01	333	50	15.36	33.30	5.97	24.60	334	0.17
108	14.30	33.374	5.82	0.48	2	0.17	307	75	15.35	33.30	5.90	24.61	334	0.25
122	13.31	33.395	5.68	0.59	3	0.04	286	100	15.30	33.31	5.98	24.63	332	0.34
142	11.83	33.437	5.28	0.88	7	0.02	256	125	13.15	33.40	5.63	25.14	283	0.41
161	10.58	33.510	4.81	1.24	13	0.01	229	150	11.18	33.47	5.05	25.57	242	0.48
191	9.37	33.725	4.13	1.72	21	0.00	194	200	9.20	33.78	3.92	26.15	187	0.59
215	8.99	33.877	3.58	-	-	-	177	250	8.45	33.99	3.18	26.43	160	0.68
240	8.58	33.969	3.26	-	-	-	164	300	7.83	34.04	2.64	26.57	148	0.76
274	8.17	34.014	2.99	-	-	-	155	400	6.83	34.16	1.25	26.80	125	0.90
313	7.66	34.053	2.43	-	-	-	144	500	6.05	34.24	0.67	26.97	110	1.02
362	7.14	34.112	1.72	-	-	-	133	600	(5.28)	(34.27)	(0.56)	(27.09)	(99)	(1.13)
430	6.60	34.189	0.91	-	-	-	120							
513	5.96	34.248	0.66	-	-	-	108							
596	5.31	34.267	0.56	-	-	-	99							

OBSERVED							COMPUTED	INTERPOLATED				COMPUTED		
Z m	T °C	S ‰	O_2 ml/L	PO_4-P µg at/L	SiO_3-Si µg at/L	NO_2-N µg at/L	δ_T cl/ton	Z m	T °C	S ‰	O_2 ml/L	σ_t g/L	δ_T cl/ton	ΔD dyn m
ALEXANDER AGASSIZ; February 9, 1964; 0359 GCT; 31°05'N, 122°39'W; sounding, 2150 fm; wind, 010°, force 3; weather, missing; sea, rough; wire angle, 18°.														90.100
0	15.86	33.390	5.91	0.43		0.00	338	0	15.86	33.39	5.91	24.56	338	0.00
9	15.85	33.380	5.92	0.43		0.00	339	10	15.85	33.38	5.92	24.56	339	0.03
42	15.82	33.376	5.93	0.42		0.00	339	20	15.84	33.38	5.93	24.56	339	0.07
70	15.82	33.376	5.79	0.44		0.00	339	30	15.83	33.38	5.93	24.56	338	0.10
89	15.80	33.379	5.93	0.43		0.00	338	50	15.82	33.38	5.89	24.56	338	0.17
103	14.09	33.362	5.86	0.63		0.14	304	75	15.81	33.38	5.81	24.57	338	0.25
117	13.07	33.352	5.59	0.80		0.04	285	100	15.80	33.37	5.89	24.56	339	0.34
136	11.30	33.440	5.08	1.47		0.01	246	125	12.55	33.36	5.45	25.23	275	0.42
155	10.16	33.527	4.58	2.20		0.01	221	150	10.40	33.50	4.70	25.73	227	0.48
183	9.27	33.826	3.43	3.23		0.01	185	200	9.12	33.90	2.97	26.26	177	0.58
206	9.08	33.918	2.82	-		-	175	250	8.65	34.09	1.89	26.48	156	0.67
230	8.81	34.037	2.12	-		-	162	300	8.21	34.17	1.44	26.61	144	0.75
263	8.56	34.113	1.78	-		-	153	400	7.32	34.22	0.89	26.78	127	0.89
301	8.20	34.169	1.43	-		-	143	500	6.34	34.28	0.56	26.96	110	1.01
348	7.82	34.193	1.17	-		-	136							
414	7.18	34.227	0.83	-		-	125							
495	6.39	34.276	0.57	-		-	111							
576	5.98	34.320	0.45	-		-	103							
ALEXANDER AGASSIZ; February 9, 1964; 2003, 1725 GCT; 30°25'N, 124°00'W; sounding, 2180 fm; wind, 040°, force 3; weather, cloudy; sea, moderate; wire angle, 13°, 28°.														90.120
0	16.54	33.582	5.91	0.37	1	0.04	339	0	16.54	33.58	5.91	24.55	339	0.00
10	16.39	33.569	6.15	0.36	2	0.01	337	10	16.39	33.57	6.15	24.58	337	0.03
29	16.39	33.569	5.84	0.40	2	0.01	337	20	16.39	33.57	6.00	24.58	337	0.07
58	16.40	33.569	5.89	0.39	2	0.01	337	30	16.39	33.57	5.84	24.58	337	0.10
79	16.38	33.575	5.84	0.37	2	0.01	336	50	16.40	33.57	5.88	24.58	337	0.17
93	16.41	33.572	5.85	0.38	2	0.01	337	75	16.38	33.57	5.85	24.58	336	0.25
108	16.38	33.569	5.84	0.38	1	0.01	337	100	16.40	33.57	5.85	24.58	337	0.34
131	13.32	33.588	5.47	0.72	5	0.03	272	125	13.69	33.58	5.57	25.17	280	0.42
151	12.37	33.629	5.08	0.92	8	0.03	252	150	12.39	33.63	5.09	25.47	252	0.48
175	10.98	33.696	4.51	1.31	13	0.03	222	200	9.95	33.78	5.07	26.03	199	0.60
205	9.84	33.801	3.99	1.69	20	-	196	250	9.19	34.05	2.63	26.36	167	0.69
253	9.14	34.067	2.57	2.21	31	0.01	165	300	8.49	34.19	1.75	26.58	146	0.77
310	8.37	34.202	1.65	2.68	40	-	143	400	7.33	34.26	0.91	26.81	125	0.91
398	7.35	34.258	0.91	3.00	52	0.01	125	500	6.28	34.26	0.69	26.95	111	1.04
503	6.26	34.259	0.68	3.28	66	-	111	600	5.72	34.33	0.49	27.08	99	1.15
609	5.68	34.334	0.48	3.46	75	0.01	98	700	5.24	34.37	0.49	27.17	91	1.25
763	4.96	34.398	0.52	3.45	87	-	85	800	4.80	34.40	0.53	27.24	84	1.35
928	4.30	34.452	0.62	3.50	100	0.01	74	1000	4.04	34.46	0.72	27.37	71	1.52
1085	3.76	34.491	0.81	3.45	110	-	66	1200	3.54	34.51	0.98	27.46	63	1.67
1163	3.60	34.510	0.95	3.44	116	0.01	63	1500	2.91	34.56	1.33	27.56	53	1.88
								2000	2.16	34.62	2.00	27.68	43	2.16
860a)	4.53	34.414	0.55	3.39	102	-	80	2500	1.85	34.65	2.50	27.72	38	2.41
951	4.27	34.450	0.70	3.51	106	-	74	3000	1.65	34.66	2.80	27.75	36	2.65
1042	3.91	34.472	0.79	3.51	111	-	69	4000b)	(1.54)	(34.69)		(27.78)	(33)	(3.11)
1226	3.50	-	-	-	-	-								
1409	3.12	34.540	1.20	3.26	127	-	57							
1593	2.72	34.570	1.48	3.23	139	-	51							
1776	2.43	34.596	1.64	3.23	146	-	47							
1960	2.20	34.618	1.96	3.06	148	-	43							
2145	2.02	34.640	2.14	3.02	143	-	40							
2332	1.92	34.642	2.40	2.96	153	-	39							
2520	1.82	34.649	2.51	2.95	154	-	38							
2707	1.76	34.653	2.61	2.86	159	-	37							
2894	1.68	34.666	2.70	2.84	156	-	36							
3084	1.63	34.664	2.92	2.84	160	-	35							
3272	1.60	34.669	3.02	2.78	157	-	35							
3463	1.57	34.670	3.12	2.76	155	-	34							
3653	1.54	34.691	3.18	2.73	160	-	33							
3845	1.54	34.682	3.26	2.79	154	-	33							
3940	1.54	34.690	3.38	2.70	158	-	33							

a) Overlapping casts; reconciliation of property curves when necessary.

b) The temperature and salinity curves for this cast were extrapolated into the bottom to complete dynamic heights for computational purposes.

SIO
CCOFI
6401

OBSERVED							COMPUTED	INTERPOLATED				COMPUTED		
Z	T	S	O_2	PO_4-P	SiO_3-Si	NO_2-N	δ_T	Z	T	S	O_2	σ_t	δ_T	ΔD
m	°C	‰	ml/L	µg at/L	µg at/L	µg at/L	cl/ton	m	°C	‰	ml/L	g/L	cl/ton	dyn m

90.140 ALEXANDER AGASSIZ; February 10, 1964; 1111 GCT; 29°46.5'N, 125°21.5'W; sounding, 2307 fm; wind, 340°, force 3; weather, missing; sea, missing; wire angle, 13°.

0	16.92	33.696	5.78	0.35	1	0.00	339	0	16.92	33.70	5.78	24.56	339	0.00
10	16.92	33.692	5.79	0.31	2	0.00	340	10	16.92	33.69	5.79	24.55	340	0.03
38	17.10	33.771	5.75	0.31	2	0.00	338	20	16.97	33.71	5.77	24.55	339	0.07
63	17.54	33.949	5.63	0.29	2	0.00	335	30	17.05	33.74	5.76	24.56	339	0.10
82	17.72	34.039	5.69	0.26	1	0.00	332	50	17.50	33.92	5.64	24.59	336	0.17
96	17.92	34.124	5.68	0.28	3	0.00	331	75	17.64	34.00	5.69	24.61	333	0.25
111	16.82	33.953	-	0.26	2	0.01	318	100	17.91	34.12	5.68	24.64	331	0.34
130	14.49	33.663	5.69	0.44	4	0.03	290	125	15.20	33.75	5.84	24.99	298	0.42
149	11.44	33.395	5.10	1.02	8	0.00	252	150	11.34	33.40	5.07	25.49	250	0.49
174	10.49	33.540	4.86	1.24	12	0.00	225	200	9.54	33.73	4.54	26.06	196	0.60
198	9.58	33.714	4.57	-	-	-	198	250	8.72	33.95	3.55	26.36	167	0.69
221	9.22	33.840	4.38	-	-	-	183	300	7.92	34.03	2.86	26.55	150	0.77
249	8.73	33.949	3.57	-	-	-	167	400	6.74	34.12	1.36	26.78	127	0.92
283	8.23	34.015	3.13	-	-	-	155	500	5.81	34.17	0.90	26.94	112	1.04
332	7.40	34.050	2.31	-	-	-	141							
394	6.80	34.115	1.43	-	-	-	128							
465	6.14	34.151	1.02	-	-	-	117							
543	5.38	34.191	0.76	-	-	-	106							

90.160 ALEXANDER AGASSIZ; February 10, 1964; 1927 GCT; 29°05'N, 126°37.5'W; sounding, 2395 fm; wind, 060°, force 3; weather, cloudy; sea, moderate; wire angle, 11°.

0	17.79	34.135	5.65	0.26	1	0.01	327	0	17.79	34.14	5.65	24.68	327	0.00
10	17.80	34.128	5.73	0.26	1	0.00	328	10	17.80	34.13	5.73	24.67	328	0.03
40	17.77	34.124	5.71	0.25	1	0.00	327	20	17.79	34.13	5.72	24.68	327	0.07
64	17.78	34.119	5.62	0.27	1	0.00	328	30	17.78	34.13	5.72	24.68	327	0.10
84	17.76	34.128	5.73	0.25	1	0.00	327	50	17.77	34.12	5.67	24.67	328	0.16
99	17.97	34.190	5.70	0.27	1	0.00	327	75	17.77	34.13	5.68	24.68	327	0.25
114	18.14	34.258	5.58	0.25	1	0.01	326	100	17.98	34.19	5.70	24.68	327	0.33
133	17.94	34.289	5.65	0.26	1	0.02	319	125	18.27	34.30	5.61	24.69	326	0.41
153	15.70	34.042	5.65	0.34	3	0.08	287	150	16.15	34.09	5.65	25.03	293	0.49
178	13.03	33.828	5.41	0.63	5	0.01	249	200	11.50	33.72	5.42	25.71	229	0.62
203	10.90	33.697	5.42	-	-	-	221	250	9.30	33.89	4.71	26.22	180	0.73
227	9.84	33.750	4.92	-	-	-	199	300	8.36	33.99	4.08	26.45	159	0.82
257	9.18	33.919	4.65	-	-	-	176	400	6.70	34.05	2.09	26.73	132	0.97
291	8.57	33.982	4.26	-	-	-	163	500	5.80	34.16	1.03	26.94	113	1.09
341	7.50	34.006	3.29	-	-	-	146							
405	6.64	34.050	2.05	-	-	-	131							
480	5.93	34.144	1.16	-	-	-	115							
559	5.42	34.206	0.75	-	-	-	105							

90.180 ALEXANDER AGASSIZ; February 11, 1964; 0550 GCT; 28°24.5'N, 127°59'W; sounding, 2370 fm; wind, 050°, force 3; weather, overcast; sea, slight; wire angle, 23°.

0	18.03	34.273	5.72	0.23	1	0.00	323	0	18.03	34.27	5.72	24.73	323	0.00
9	18.00	34.267	5.64	0.24	2	0.00	322	10	18.00	34.27	5.64	24.73	322	0.03
41	18.04	34.269	5.67	0.37	2	0.00	323	20	18.01	34.27	5.65	24.73	322	0.06
69	18.00	34.258	5.57	0.22	1	0.01	323	30	18.03	34.27	5.66	24.73	323	0.10
87	16.96	34.010	5.79	0.24	2	0.04	317	50	18.03	34.26	5.64	24.72	324	0.16
100	16.53	33.973	5.77	0.25	2	0.07	310	75	17.88	34.22	5.59	24.72	323	0.24
113	16.20	34.008	5.69	0.25	2	0.15	301	100	16.53	33.97	5.77	24.85	311	0.32
132	15.96	34.094	5.68	0.25	3	0.12	289	125	16.05	34.08	5.68	25.05	292	0.40
150	14.76	33.898	5.56	0.38	3	0.02	278	150	14.76	33.90	5.56	25.20	278	0.47
177	12.74	33.728	5.40	0.63	6	0.01	251	200	11.47	33.75	5.25	25.74	226	0.60
199	11.50	33.754	5.26	-	-	-	227	250	9.39	33.83	4.23	26.16	186	0.71
221	10.53	33.763	5.04	-	-	-	210	300	8.56	33.96	4.11	26.39	164	0.80
252	9.36	33.834	4.22	-	-	-	186	400	6.99	33.97	2.69	26.63	142	0.95
288	8.80	33.948	4.17	-	-	-	169	500	5.80	34.06	1.43	26.86	120	1.09
333	7.92	33.966	3.71	-	-	-	155							
396	7.04	33.973	2.77	-	-	-	142							
474	6.06	34.028	1.74	-	-	-	126							
552	5.42	34.113	0.96	-	-	-	112							

OBSERVED							COMPUTED	INTERPOLATED				COMPUTED			SIO
Z	T	S	O_2	PO_4-P	SiO_3-Si	NO_2-N	δ_T	Z	T	S	O_2	σ_t	δ_T	ΔD	CCOFI
m	°C	‰	ml/L	µg at/L	µg at/L	µg at/L	cl/ton	m	°C	‰	ml/L	g/L	cl/ton	dyn m	6401

ALEXANDER AGASSIZ; February 11, 1964; 0658 GCT;[a] 28°24.5'N, 127°59'W; sounding, 2370 fm; wind, 050°, force 3; weather, overcast; sea, slight; wire angle, 37°. 90.180

380	7.19	34.010	2.99	2.29	46		141							
383	7.14	34.012	3.02	2.30	47		141							
385	7.07	34.017	2.77	2.36	47		139							
409	6.72	34.019	2.53	2.51	54		135							
411	6.66	34.027	2.53	2.43	52		133							
414	6.64	34.026	2.40	2.55	56		133							
436	6.28	34.035	2.17	2.73	61		128							
439	6.27	34.041	2.10	2.70	59		127							
442	6.26	34.053	2.09	2.74	61		126							
465	6.05	34.066	1.71	2.92	66		123							
467	6.03	34.068	1.72	2.93	63		122							
470	6.02	34.069	1.67	2.90	66		122							
493	5.86	34.096	1.40	3.01	68		118							
495	5.85	34.106	1.30	2.98	73		117							
498	5.84	34.108	1.29	3.00	73		117							
522	5.62	34.125	1.17	3.03	80		113							
525	5.58	34.131	1.15	3.06	80		112							
527	5.56	34.132	1.12	3.07	80		112							

ALEXANDER AGASSIZ; February 11, 1964; 1534 GCT; 27°49.5'N, 129°15'W; sounding, 2380 fm; wind, 050°, force 6; weather, drizzle; sea, high; wire angle, 37°. 90.200

0	18.32	34.496	5.62	0.26	3	0.02	313	0	18.32	34.50	5.62	24.83	313	0.00
8	18.33	34.485	5.56	0.40	3	0.01	314	10	18.33	34.49	5.56	24.82	314	0.03
39	18.38	34.523	5.54	0.29	2	0.00	313	20	18.34	34.50	5.55	24.82	313	0.06
66	18.46	34.567	5.47	0.26	3	0.00	311	30	18.36	34.51	5.55	24.83	313	0.09
80	18.51	34.566	5.52	0.23	2	0.00	313	50	18.40	34.53	5.51	24.83	313	0.16
93	18.52	34.569	5.53	0.21	2	0.02	313	75	18.50	34.57	5.50	24.84	312	0.24
108	18.42	34.56	5.51	0.31	3	0.03	311	100	18.49	34.56	5.52	24.83	313	0.31
123	17.92	34.488	5.51	0.25	3	0.09	304	125	17.79	34.47	5.51	24.94	303	0.39
137	16.93	34.369	5.37	0.28	4	0.09	290	150	16.08	34.28	5.28	25.20	278	0.47
160	15.34	34.206	5.27	0.41	5	0.04	268	200	12.10	33.87	5.09	25.71	229	0.59
183	13.42	34.006	5.32	-	-	-	244	250	9.71	33.83	4.82	26.11	191	0.70
201	12.04	33.868	5.09	-	-	-	228	300	8.72	33.96	4.40	26.37	167	0.79
228	10.34	33.766	4.90	-	-	-	206	400	6.77	33.99	2.56	26.68	137	0.95
262	9.48	33.871	4.76	-	-	-	185	500	5.77	34.09	1.23	26.88	118	1.09
304	8.63	33.961	4.36	-	-	-	165							
371	7.16	33.967	3.20	-	-	-	144							
443	6.30	34.041	1.76	-	-	-	128							
506	5.72	34.099	1.21	-	-	-	116							

BLACK DOUGLAS; February 9, 1964; 0634 GCT; 32°54.5'N, 117°23'W; sounding, 250 fm; wind, 280°, force 1; weather, partly cloudy; sea, slight; wire angle, 03°. 93.28

0	15.36	33.711	5.59				304	0	15.36	33.71	5.59	24.92	304	0.00
10	15.26	33.708	5.57				302	10	15.26	33.71	5.57	24.94	302	0.03
30	15.20	33.703	5.61				302	20	15.20	33.70	5.60	24.95	302	0.06
44	14.98	33.675	5.54				299	30	15.20	33.70	5.61	24.95	302	0.09
54	14.20	33.628	5.12				287	50	14.60	33.65	5.37	25.04	293	0.15
69	12.68	33.654	4.08				255	75	12.37	33.67	3.92	25.51	248	0.22
84	12.00	33.702	3.78				239	100	11.22	33.77	3.38	25.80	221	0.28
97	11.38	33.755	3.44				225	125	10.28	33.88	2.97	26.05	197	0.33
122	10.39	33.863	3.02				200	150	9.80	33.98	2.50	26.21	182	0.38
142	9.84	33.952	2.63				184	200	9.37	34.13	1.87	26.40	164	0.47
171	9.72	34.058	2.20				175	250	8.84	34.22	1.30	26.55	149	0.55
201	9.36	34.134	1.86				163	300	8.29	34.25	0.98	26.66	139	0.62
235	9.01	34.204	1.44				153	400	7.42	34.28	0.54	26.81	124	0.76
288	8.39	34.247	1.05				140							
341	8.00	34.265	0.78				133							
400	7.42	34.285	0.54				124							

a) Test cast.

SIO

CCOFI 6401

	OBSERVED						COMPUTED	INTERPOLATED				COMPUTED		
Z	T	S	O_2	PO_4-P	SiO_3-Si	NO_2-N	δ_T	Z	T	S	O_2	σ_t	δ_T	ΔD
m	°C	‰	ml/L	µg at/L	µg at/L	µg at/L	cl/ton	m	°C	‰	ml/L	g/L	cl/ton	dyn m

93.30 BLACK DOUGLAS; February 5, 1964; 0331 GCT; 32°48.5'N, 117°29.5'W; sounding, 380 fm; wind, 310°, force 1; weather, clear; sea, slight; wire angle, 05°. a)

0	15.38	33.716	5.55				304						
20	15.34	33.704	5.60				304						
39	15.31	33.706	5.57				304						
59	14.40	33.631	4.99				290						
79	12.33	33.636	4.04				250						
98	11.74	33.685	3.77				236						
118	10.93	33.793	3.30				214						
138	10.26	33.878	2.95				197						
157	9.71	33.967	2.64				181						
176	9.38	34.013	2.50				173						
197	9.20	34.060	2.23				166						
214	9.06	34.121	1.91				160						
233	9.02	34.185	1.60				154						
254	8.88	34.195	1.50				151						
262	8.86	34.219	1.37				149						
272	8.74	34.230	1.39				147						
280	8.68	-	-										
291	8.64	34.238	1.24				145						

93.30 BLACK DOUGLAS; February 9, 1964; 0835 GCT; 32°50.5'N, 117°30.5'W; sounding, 450 fm; wind, 050°, force 1; weather, missing; sea, slight; wire angle, 00°.

0	15.42	33.704	5.58				306	0	15.42	33.70	5.58	24.90	306	0.00
9	15.36	33.696	5.57				305	10	15.35	33.70	5.57	24.91	305	0.03
30	15.26	33.697	5.68				303	20	15.30	33.70	5.63	24.92	304	0.06
38	14.76	33.659	5.38				296	30	15.26	33.70	5.68	24.93	303	0.09
49	13.93	33.607	4.92				283	50	13.84	33.61	4.85	25.17	281	0.15
64	12.94	33.654	4.20				260	75	12.42	33.68	4.00	25.50	249	0.22
78	12.30	33.682	3.94				246	100	11.60	33.75	3.42	25.71	229	0.28
97	11.70	33.746	3.43				231	125	10.57	33.80	3.18	25.94	207	0.33
121	10.70	33.793	3.24				210	150	9.97	33.91	2.81	26.13	190	0.38
142	10.14	33.873	2.93				195	200	9.29	34.10	2.02	26.39	165	0.47
171	9.59	33.990	2.51				178	250	8.81	34.19	1.47	26.53	151	0.55
200	9.29	34.102	2.02				165	300	8.34	34.24	1.12	26.65	140	0.63
228	9.01	34.162	1.63				156	400	7.27	34.29	0.54	26.84	122	0.77
269	8.62	34.214	1.34				146	500	6.53	34.32	0.31	26.97	110	0.89
326	8.08	34.252	0.96				136							
398	7.29	34.287	0.55				122							
471	6.74	34.314	0.35				113							
551	6.17	34.336	0.22				104							

93.40 BLACK DOUGLAS; February 9, 1964; 1341 GCT; 32°30'N, 118°11.5'W; sounding, 950 fm; wind, 360°, force 3; weather, partly cloudy; sea, moderate; wire angle, 00°.

0	15.79	33.666	5.55				317	0	15.79	33.67	5.55	24.79	316	0.00
10	15.83	33.662	5.51				318	10	15.83	33.66	5.51	24.78	318	0.03
30	15.81	33.671	5.58				317	20	15.82	33.66	5.55	24.78	318	0.06
39	15.80	33.661	5.58				317	30	15.81	33.67	5.58	24.79	317	0.10
49	15.80	33.661	5.50				317	50	15.79	33.66	5.50	24.79	317	0.16
64	15.26	33.657	5.26				306	75	14.30	33.62	4.97	25.08	289	0.24
79	13.79	33.606	4.82				280	100	11.93	33.68	3.95	25.60	240	0.30
98	12.02	33.682	3.95				241	125	10.35	33.76	3.46	25.95	207	0.36
123	10.40	33.752	3.48				208	150	9.77	33.82	3.28	26.09	193	0.41
144	9.95	33.795	3.36				198	200	9.02	34.10	2.06	26.43	161	0.50
173	9.13	33.919	2.94				176	250	8.73	34.20	1.44	26.56	149	0.58
202	9.02	34.103	1.99				160	300	7.97	34.21	1.08	26.68	137	0.65
232	9.04	34.187	1.61				154	400	7.25	34.27	0.64	26.83	123	0.79
272	8.30	34.202	1.28				142	500	6.44	34.32	0.31	26.98	109	0.91
330	7.68	-	-											
403	7.23	34.269	0.63				123							
476	6.60	34.316	0.36				111							
555	6.12	34.338	0.23				103							

a) Shakedown station.

OBSERVED							COMPUTED	INTERPOLATED				COMPUTED			SIO
Z	T	S	O_2	PO_4-P	SiO_3-Si	NO_2-N	δ_T	Z	T	S	O_2	σ_t	δ_T	ΔD	CCOFI
m	°C	‰	ml/L	µg at/L	µg at/L	µg at/L	cl/ton	m	°C	‰	ml/L	g/L	cl/ton	dyn m	6401
BLACK DOUGLAS; February 9, 1964; 1928 GCT; 32°08.5'N, 118°54'W; sounding, 825 fm; wind, 280°, force 1; weather, cloudy; sea, slight; wire angle, 00°.															93.50
0	15.82	33.665	5.49				317	0	15.82	33.66	5.49	24.78	318	0.00	
10	15.74	33.662	5.53				316	10	15.74	33.66	5.53	24.80	316	0.03	
30	15.75	33.661	5.58				316	20	15.75	33.66	5.55	24.79	316	0.06	
54	15.07	33.648	5.44				303	30	15.75	33.66	5.58	24.79	316	0.10	
64	13.76	33.606	4.91				280	50	15.39	33.65	5.48	24.87	309	0.16	
74	13.12	33.605	4.62				267	75	13.02	33.60	4.59	25.33	266	0.23	
89	11.60	33.563	4.35				243	100	10.55	33.62	4.17	25.80	220	0.29	
103	10.44	33.637	4.13				217	125	9.71	33.74	3.54	26.04	198	0.34	
128	9.68	33.773	3.44				195	150	9.81	33.97	2.57	26.20	183	0.39	
148	9.82	33.957	2.64				184	200	9.17	34.12	1.86	26.42	161	0.48	
171	9.54	-	2.22					250	8.57	34.21	1.30	26.59	146	0.56	
201	9.16	34.125	1.86				161	300	8.11	34.26	0.92	26.70	135	0.63	
230	8.72	34.179	1.50				150	400	6.84	34.24	0.65	26.86	120	0.77	
270	8.43	34.245	1.13				141	500	6.35	34.30	0.36	26.98	109	0.89	
328	7.74	34.262	0.73				130								
400	6.84	34.238	0.65				120								
473	6.47	34.284	0.38				112								
552	6.14	34.319	0.31				105								
BLACK DOUGLAS; February 10, 1964; 0036 GCT; 31°50'N, 119°34'W; sounding, 1475 fm; wind, 320°, force 3; weather, cloudy; sea, moderate; wire angle, 05°.															93.60
0	15.02	33.421	5.70				318	0	15.02	33.42	5.70	24.77	318	0.00	
10	14.56	33.412	5.73				310	10	14.56	33.41	5.73	24.86	310	0.03	
30	14.53	33.401	5.75				310	20	14.53	33.41	5.74	24.87	309	0.06	
54	13.90	33.405	5.48				297	30	14.53	33.40	5.75	24.86	310	0.09	
64	13.53	33.444	5.39				287	50	14.14	33.40	5.59	24.94	302	0.15	
74	12.30	33.376	5.00				269	75	12.25	33.38	4.98	25.31	268	0.23	
89	11.50	33.434	4.60				250	100	10.70	33.54	4.15	25.71	229	0.29	
103	10.52	33.573	4.05				223	125	10.03	33.71	3.62	25.96	205	0.34	
127	10.00	33.720	3.57				204	150	9.44	33.87	3.08	26.18	184	0.39	
147	9.51	33.853	3.15				186	200	9.11	34.10	2.00	26.42	162	0.48	
171	9.16	33.947	2.76				174	250	8.51	34.16	1.61	26.56	149	0.56	
201	9.11	34.106	1.99				162	300	7.68	34.16	1.37	26.68	137	0.63	
230	8.93	34.164	1.64				155	400	7.02	34.26	0.60	26.85	120	0.77	
270	8.08	34.145	1.62				144	500	6.09	34.30	0.33	27.01	106	0.89	
329	7.38	34.180	1.16				131								
402	7.01	34.264	0.58				120								
476	6.26	34.289	0.34				109								
556	5.74	34.320	0.29				100								
BLACK DOUGLAS; February 10, 1964; 0603 GCT; 31°31'N, 120°14'W; sounding, 2200 fm; wind, 280°, force 3; weather, partly cloudy; sea, moderate; wire angle, 04°.															93.70
0	14.58	33.453	5.79				307	0	14.58	33.45	5.79	24.89	307	0.00	
10	14.57	33.454	5.78				307	10	14.57	33.45	5.78	24.89	307	0.03	
44	14.08	33.488	5.65				294	20	14.33	33.46	5.74	24.95	302	0.06	
72	11.61	33.389	4.68				256	30	14.29	33.48	5.72	24.97	299	0.09	
93	11.00	33.614	3.77				228	50	13.96	33.48	5.61	25.04	293	0.15	
107	10.88	33.834	2.76				210	75	11.49	33.40	4.50	25.46	253	0.22	
122	10.66	33.895	2.42				202	100	10.93	33.71	3.13	25.80	220	0.28	
142	10.36	33.981	2.13				191	125	10.60	33.91	2.37	26.02	200	0.33	
161	10.20	34.068	1.85				182	150	10.28	34.01	2.05	26.15	187	0.38	
191	9.93	34.195	1.42				168	200	9.83	34.22	1.34	26.39	164	0.47	
215	9.67	34.254	1.23				159	250	9.32	34.28	1.13	26.52	152	0.55	
239	9.44	34.277	1.16				154	300	8.72	34.28	0.98	26.62	143	0.63	
274	9.00	34.278	1.07				147	400	7.48	34.28	0.70	26.81	125	0.77	
313	8.60	34.287	0.93				140	500	6.47	34.30	0.37	26.96	110	0.89	
361	8.02	34.274	0.95				133	600	(5.91)	(34.34)	(0.22)	(27.06)	(101)	(1.01)	
430	7.06	34.292	0.48				119								
515	6.36	34.300	0.33				109								
598	5.92	34.338	0.23				101								

SIO
CCOFI
6401

OBSERVED							COMPUTED	INTERPOLATED				COMPUTED		
Z	T	S	O_2	PO_4-P	SiO_3-Si	NO_2-N	δ_T	Z	T	S	O_2	σ_t	δ_T	ΔD
m	°C	‰	ml/L	µg at/L	µg at/L	µg at/L	cl/ton	m	°C	‰	ml/L	g/L	cl/ton	dyn m

93.80 BLACK DOUGLAS; February 10, 1964; 1120 GCT; 31°07'N, 120°56'W; sounding, 2000 fm; wind, 290°, force 3; weather, missing; sea, slight; wire angle, 05°.

0	15.00	33.609	5.72				304	0	15.00	33.61	5.72	24.92	304	0.00
10	15.04	33.618	5.70				304	10	15.04	33.62	5.70	24.92	304	0.03
30	14.98	33.608	5.68				304	20	15.00	33.61	5.69	24.92	304	0.06
60	13.79	33.543	5.15				285	30	14.98	33.61	5.68	24.93	304	0.09
69	12.49	33.517	4.63				262	50	14.12	33.56	5.29	25.07	290	0.15
84	11.42	33.491a)	4.47				245	75	11.72	33.50	4.51	25.50	249	0.22
98	10.50	33.578	3.83				223	100	10.42	33.59	3.77	25.80	221	0.28
112	10.02	33.716	3.46				205	125	9.75	33.82	3.15	26.09	193	0.33
137	9.51	33.872	3.00				185	150	9.23	33.90	2.95	26.24	179	0.38
157	9.11	33.923	2.91				175	200	8.45	34.05	2.38	26.48	156	0.46
189	8.62	34.033	2.46				160	250	8.09	34.14	1.61	26.61	144	0.54
219	8.18	34.066	2.26				151	300	7.77	34.20	1.16	26.70	135	0.61
249	8.10	34.136	1.62				144	400	7.09	34.27	0.60	26.85	121	0.75
296	7.78	34.185	1.20				136	500	6.22	34.29	0.32	26.99	108	0.87
353	7.47	34.256	0.77				127	600	5.65	34.33	0.27	27.09	98	0.98
438	6.75	34.277	0.47				116							
523	6.06	34.298	0.30				106							
606	5.61	34.339	0.25				97							

93.90 BLACK DOUGLAS; February 10, 1964; 1625 GCT; 30°45'N, 121°33.5'W; sounding, 2250 fm; wind, 350°, force 3; weather, overcast; sea, moderate; wire angle, 07°.

0	15.26	33.281	5.62				334	0	15.26	33.28	5.62	24.61	334	0.00
10	15.27	33.279	5.62				334	10	15.27	33.28	5.62	24.61	334	0.03
30	15.21	33.292	5.63				332	20	15.25	33.28	5.62	24.61	334	0.07
54	15.14	33.287	5.63				331	30	15.21	33.29	5.63	24.63	332	0.10
63	15.14	33.292	5.63				330	50	15.16	33.29	5.63	24.64	331	0.17
73	14.86	33.265	5.62				327	75	14.83	33.27	5.62	24.70	326	0.25
88	14.60	33.311	5.69				318	100	14.24	33.42	5.62	24.94	303	0.33
101	14.24	33.420	5.62				303	125	12.62	33.43	4.91	25.27	271	0.40
126	12.58	33.430	4.90				270	150	10.64	33.53	4.50	25.72	229	0.46
145	10.89	33.496	4.67				235	200	9.02	33.86	3.42	26.24	178	0.57
169	9.84	33.658	3.96				206	250	8.32	33.99	2.89	26.45	158	0.65
198	9.06	33.853	3.44				180	300	7.56	34.03	2.25	26.60	145	0.73
226	8.66	33.957	3.03				166	400	6.50	34.16	0.82	26.85	121	0.87
264	8.10	34.004	2.79				154	500	5.87	34.24		26.99	108	0.99
322	7.26	34.048	2.00				139							
393	6.54	34.153	0.87				122							
466	6.08	34.208	0.52				112							
545	5.60	34.291	0.86u				101							

93.100 BLACK DOUGLAS; February 10, 1964; 2134 GCT; 30°26'N, 122°19'W; sounding, 2200 fm; wind, 320°, force 3; weather, overcast; sea, moderate; wire angle, 03°.

0	16.06	33.451	5.55				338	0	16.06	33.45	5.55	24.56	338	0.00
9	16.01	33.449	5.53				337	10	16.01	33.45	5.53	24.57	337	0.03
39	16.01	33.446	5.53				337	20	16.01	33.45	5.53	24.57	337	0.07
63	16.00	33.453	5.53				337	30	16.01	33.45	5.53	24.57	337	0.10
84	16.00	33.449	5.53				337	50	16.00	33.45	5.53	24.58	337	0.17
98	14.48	33.449	5.49				305	75	16.00	33.45	5.53	24.58	337	0.25
113	13.34	33.468	5.29				282	100	14.00	33.46	5.41	25.02	295	0.33
133	11.92	33.439	4.95				257	125	12.23	33.45	5.02	25.36	262	0.40
153	10.82	33.506	4.62				233	150	11.03	33.49	4.68	25.62	238	0.47
177	9.33	33.743	3.80				192	200	9.09	33.85	3.58	26.22	180	0.57
201	9.08	33.853	3.57				180	250	8.34	34.00	2.85	26.46	158	0.66
225	8.68	33.953	3.22				166	300	7.58	34.06	2.12	26.62	143	0.74
256	8.26	34.006	2.79				156	400	6.73	34.17	0.87	26.82	123	0.88
290	7.67	34.047	2.23				145	500	5.98	34.23	0.46	26.97	110	1.00
339	7.31	-	-											
402	6.72	34.170	0.84				123							
477	6.14	34.222	0.50				112							
555	5.56	34.258	0.38				103							

a) Possible evaporation; value falls on property curve.

OBSERVED							COMPUTED	INTERPOLATED				COMPUTED		
Z	T	S	O_2	PO_4-P	SiO_3-Si	NO_2-N	δ_T	Z	T	S	O_2	σ_t	δ_T	ΔD
m	°C	‰	ml/L	µg at/L	µg at/L	µg at/L	cl/ton	m	°C	‰	ml/L	g/L	cl/ton	dyn m

ALEXANDER AGASSIZ; January 10, 1964; 0109 GCT; 32°42.5'N, 117°26'W; sounding, 240 fm; wind, 310°, force 4; weather, clear; sea, moderate; wire angle, 12°.[a] 94.30

0	16.6	33.721	5.71	0.37	4		330
5	16.62	33.722	5.71	0.34	3		331
9	16.62	33.721	5.86	0.34	4		331
14	16.61	33.722	5.72	0.30	3		330
19	16.60	33.718	5.28	0.31	3		330
24	16.60	33.721	5.80	0.31	3		330
29	16.54	33.721	5.80	0.31	2		329
34	16.54	33.712	5.82	0.33	3		330
39	16.50	33.707	5.72	0.31	2		329
44	16.30	33.685	5.69	0.37	3		326
48	15.87	33.658	5.70	0.47	3		319
53	15.48	33.634	5.65	0.48	3		312
58	14.66	33.599	5.37	0.65	5		298
63	14.09	33.598	5.25	0.77	6		287
68	13.62	33.612	5.16	0.89	6		276
73	13.30	33.674	4.58	1.05	8		266
78	13.06	33.689	4.53	1.09	9		260
83	12.74	33.696	4.49	1.12	10		253

ALEXANDER AGASSIZ; February 18, 1964; 2048 GCT; 31°40.5'N, 116°46.5'W; sounding, 220 fm; wind, 290°, force 4; weather, partly cloudy; sea, rough; wire angle, 25°. 100.30

1	15.02	33.743	6.03	0.51	4	0.06	295	0	(15.02)	(33.74)	(6.03)	(25.02)	(295)	(0.00)
10	14.80	33.736	6.01	0.49	4	0.07	291	10	14.80	33.74	6.01	25.06	291	0.03
28	13.94	33.700	5.26	0.80	7	0.20	276	20	14.32	33.71	5.61	25.14	283	0.06
42	11.91	33.713	3.96	1.45	15	0.04	237	30	13.83	33.70	5.17	25.24	274	0.09
50	11.66	33.743	3.92	1.50	16	0.02	230	50	11.66	33.74	3.92	25.69	231	0.14
64	11.14	33.792	3.60	1.64	18	0.02	218	75	10.78	33.84	3.32	25.93	208	0.19
78	10.74	33.852	3.29	1.78	21	0.01	206	100	10.50	33.90	3.10	26.03	199	0.24
91	10.59	33.880	3.18	1.87	22	0.01	202	125	9.93	34.02	2.67	26.22	181	0.29
113	10.18	33.952	2.91	1.97	25	0.02	190	150	9.64	34.09	2.34	26.32	171	0.34
132	9.85	34.041	2.56	2.20	28	0.01	178	200	9.20	34.20	1.71	26.48	156	0.42
158	9.56	34.111	2.26	-	-	-	168	250	8.89	34.26	1.41	26.58	147	0.50
185	9.32	34.169	1.94	-	-	-	160	300	8.42	34.27	1.20	26.66	139	0.57
216	9.10	34.227	1.57	-	-	-	152							
266	8.78	34.266	1.34	-	-	-	145							
315	8.22	34.276	1.12	-	-	-	136							
370	7.63	34.282	0.88	-	-	-	127							

ALEXANDER AGASSIZ; February 19, 1964; 0039 GCT; 31°31'N, 117°07'W; sounding, 645 fm; wind, 330°, force 4; weather, partly cloudy; sea, rough; wire angle, 28°. 100.35

1	15.48	33.703	6.02	0.39	1	0.02	307	0	(15.48)	(33.70)	(6.02)	(24.88)	(308)	(0.00)
10	15.46	33.702	5.95	0.35	1	0.02	307	10	15.46	33.70	5.95	24.89	307	0.03
33	15.30	33.710	6.01	0.37	1	0.01	303	20	15.37	33.71	5.98	24.92	305	0.06
41	15.29	33.705	5.92	0.35	2	0.02	303	30	15.31	33.71	6.01	24.93	303	0.09
55	14.10	33.647	5.53	0.65	4	0.12	283	50	14.75	33.67	5.72	25.02	295	0.15
68	12.44	33.618	4.69	1.10	9	0.04	254	75	11.55	33.64	4.37	25.64	236	0.22
89	10.37	33.750	3.88	1.61	17	0.02	208	100	10.14	33.80	3.69	26.01	200	0.27
106	10.05	33.825	3.58	1.76	20	0.01	197	125	9.82	33.88	3.33	26.13	189	0.32
123	9.84	33.872	3.34	1.86	23	0.01	190	150	9.51	33.99	2.93	26.27	176	0.37
149	9.52	33.983	2.99	2.06	27	0.01	177	200	9.19	34.16	2.07	26.45	159	0.45
174	9.45	34.082	2.48	-	-	-	169	250	8.89	34.29	1.40	26.60	145	0.53
208	9.12	34.184	1.93	-	-	-	156	300	8.35	34.28	1.19	26.68	137	0.61
233	9.02	34.266	1.50	-	-	-	148	400	7.36	34.30	0.78	26.84	122	0.74
275	8.64	34.293	1.29	-	-	-	141	500	6.37	34.35	0.46	27.01	105	0.86
330	8.01	34.276	1.07	-	-	-	133							
416	7.21	34.306	0.71	-	-	-	120							
495	6.42	34.346	0.47	-	-	-	106							
562	5.90	34.362	0.44	-	-	-	99							

a) Shakedown station.

SIO

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	OBSERVED							COMPUTED	INTERPOLATED				COMPUTED		
	Z	T	S	O_2	PO_4-P	SiO_3-Si	NO_2-N	δ_T	Z	T	S	O_2	σ_t	δ_T	ΔD
	m	°C	‰	ml/L	µg at/L	µg at/L	µg at/L	cl/ton	m	°C	‰	ml/L	g/L	cl/ton	dyn m
100.40	ALEXANDER AGASSIZ; February 19, 1964; 0327 GCT; 31°21'N, 117°27'W; sounding, 1025 fm; wind, 330°, force 4; weather, partly cloudy; sea, rough; wire angle, 18°.														
	0	15.34	33.715	5.99	0.35	2	0.02	304	0	15.34	33.72	5.99	24.93	303	0.00
	10	15.33	33.716	6.04	0.37	2	0.01	303	10	15.33	33.72	6.04	24.93	303	0.03
	28	15.22	33.715	5.96	0.38	2	0.02	301	20	15.29	33.72	6.00	24.94	302	0.06
	56	14.56	33.684	5.44	0.59	4	0.08	290	30	15.21	33.71	5.93	24.95	301	0.09
	66	12.30	33.643	4.60	1.14	10	0.09	249	50	15.00	33.70	5.78	24.99	298	0.15
	80	11.30	33.638	4.24	1.39	13	0.03	232	75	12.00	33.64	4.49	25.55	244	0.22
	94	10.76	33.738	4.09	1.59	16	0.02	215	100	10.58	33.76	3.91	25.91	211	0.28
	107	10.38	33.787	3.70	1.69	18	0.02	205	125	9.83	33.90	3.18	26.14	188	0.33
	130	9.71	33.937	3.09	1.97	24	0.01	183	150	9.29	34.01	2.88	26.32	171	0.37
	151	9.28	34.016	2.88	2.12	28	0.01	171	200	9.22	34.24	1.59	26.51	153	0.46
	175	8.93	34.066	2.64	-	-	-	162	250	8.71	34.26	1.46	26.61	144	0.53
	203	9.23	34.247	1.54	-	-	-	153	300	8.14	34.26	1.20	26.69	136	0.60
	230	9.04	34.271	1.47	-	-	-	148	400	7.21	34.30	0.68	26.86	120	0.74
	275	8.36	34.243	1.41	-	-	-	140	500	6.32	34.34	0.53	27.01	106	0.86
	326	7.94	34.287	1.00	-	-	-	131							
	403	7.18	34.298	0.67	-	-	-	120							
	482	6.46	34.329	0.54	-	-	-	108							
	561	6.04	34.351	0.55	-	-	-	101							
100.50	ALEXANDER AGASSIZ; February 19, 1964; 0856 GCT; 31°00.5'N, 118°08.5'W; sounding, 1345 fm; wind, 320°, force 3; weather, missing; sea, moderate; wire angle, 07°.														
	0	15.34	33.715	5.93	0.38	1	0.01	304	0	15.34	33.72	5.93	24.93	303	0.00
	10	15.32	33.712	5.97	0.36	2	0.01	303	10	15.32	33.71	5.97	24.93	304	0.03
	30	15.29	33.711	5.97	0.35	1	0.01	303	20	15.30	33.71	5.97	24.93	303	0.06
	59	14.21	33.627	5.42	0.61	4	0.12	287	30	15.29	33.71	5.97	24.93	303	0.09
	69	12.42	33.657	4.52	1.14	9	0.10	250	50	15.25	33.71	5.96	24.94	302	0.15
	84	11.50	33.698	4.12	1.38	13	0.04	231	75	11.98	33.67	4.33	25.58	241	0.22
	100	10.66	33.762	3.67	1.61	17	0.02	212	100	10.66	33.76	3.67	25.89	212	0.28
	115	10.02	33.776	3.71	1.71	19	0.01	200	125	10.00	33.83	3.65	26.06	196	0.33
	140	9.52	33.943	3.08	1.99	25	0.00	180	150	9.45	34.00	2.82	26.28	175	0.38
	160	9.38	34.044	2.63	2.21	29	0.01	170	200	8.57	34.13	2.10	26.53	152	0.46
	190	8.77	34.116	2.25	-	-	-	156	250	8.08	34.20	1.53	26.65	139	0.53
	220	8.27	34.166	1.79	-	-	-	145	300	7.61	34.24	1.19	26.76	130	0.60
	250	8.08	34.200	1.53	-	-	-	139	400	6.85	34.30	0.57	26.91	115	0.73
	299	7.62	34.241	1.20	-	-	-	130	500	6.12	34.35	0.44	27.05	102	0.85
	354	7.20	34.279	0.81	-	-	-	121	600	5.55	34.38	0.44	27.14	93	0.95
	438	6.55	34.320	0.46	-	-	-	110							
	523	5.99	34.363	0.44	-	-	-	100							
	607	5.51	34.385	0.44	-	-	-	93							
100.60	ALEXANDER AGASSIZ; February 16, 1964; 1329 GCT; 30°41'N, 118°43'W; sounding, 1360 fm; wind, 320°, force 5; weather, cloudy; sea, very rough; wire angle, 39°.														
	0	14.82	33.559	6.07	0.40	2	0.00	304	0	14.82	33.56	6.07	24.92	304	0.00
	8	14.80	33.553	6.10	0.35	1	0.00	304	10	14.80	33.55	6.09	24.92	304	0.03
	27	14.82	33.554	6.09	0.35	1	0.01	305	20	14.81	33.55	6.09	24.92	305	0.06
	51	14.52	33.540	5.91	0.40	1	0.01	299	30	14.82	33.55	6.08	24.91	305	0.09
	58	14.05	33.471	5.87	0.54	3	0.01	295	50	14.54	33.54	5.94	24.97	300	0.15
	73	12.78	33.467	5.39	0.78	5	0.00	271	75	12.55	33.47	5.30	25.32	267	0.22
	84	11.86	33.506	5.09	1.04	8	0.00	251	100	11.20	33.55	4.84	25.63	237	0.29
	97	11.34	33.538	4.91	1.15	10	0.01	240	125	9.82	33.67	4.16	25.96	205	0.34
	120	10.07	33.636	4.25	1.95	16	0.00	211	150	9.27	33.86	3.72	26.20	182	0.39
	134	9.50	33.734	4.00	2.31	21	0.00	195	200	8.71	33.99	3.17	26.39	164	0.48
	157	9.20	33.892	3.62	-	-	-	179	250	7.97	34.09	2.42	26.58	146	0.56
	184	8.94	33.966	3.26	-	-	-	169	300	7.36	34.12	1.87	26.70	135	0.63
	206	8.62	33.999	3.12	-	-	-	162	400	6.47	34.20	1.02	26.88	118	0.76
	244	8.06	34.078	2.54	-	-	-	148	500	5.58	34.25	0.58	27.03	103	0.88
	293	7.42	34.119	1.96	-	-	-	136							
	370	6.70	34.193	1.18	-	-	-	121							
	441	6.13	34.210	0.85	-	-	-	113							
	501	5.58	34.253	0.58	-	-	-	103							

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OBSERVED							COMPUTED	INTERPOLATED				COMPUTED		
Z	T	S	O_2	PO_4-P	SiO_3-Si	NO_2-N	δ_T	Z	T	S	O_2	σ_t	δ_T	ΔD
m	°C	‰	ml/L	µg at/L	µg at/L	µg at/L	cl/ton	m	°C	‰	ml/L	g/L	cl/ton	dyn m
ALEXANDER AGASSIZ; February 16, 1964; 0331 GCT; 30°20'N, 119°27.5'W; sounding, 2050 fm; wind, 300°, force 3; weather, missing; sea, moderate; wire angle, 26°.														100.70
0	15.40	33.478	6.18	0.35	1	0.01	322	0	15.40	33.48	6.18	24.73	322	0.00
9	15.40	33.480	6.10	0.35	1	0.01	322	10	15.40	33.48	6.09	24.73	322	0.03
27	15.37	33.488	5.78	0.36	1	0.01	321	20	15.38	33.49	5.87	24.75	321	0.06
53	14.98	33.460	5.73	0.40	1	0.04	315	30	15.36	33.49	5.76	24.75	320	0.10
61	14.64	33.480	5.91	0.46	2	0.08	306	50	15.30	33.49	5.74	24.76	319	0.16
75	13.62	33.461	5.65	0.63	4	0.11	287	75	13.62	33.46	5.65	25.10	287	0.24
88	12.26	33.511	5.04	1.03	8	0.05	258	100	11.54	33.56	4.67	25.58	242	0.30
101	11.50	33.577	4.63	1.25	11	0.02	240	125	10.37	33.79	3.69	25.96	205	0.36
121	10.48	33.766	3.75	1.67	18	0.01	208	150	9.79	33.95	3.12	26.19	184	0.41
139	9.92	33.852	3.49	1.85	22	0.01	193	200	9.41	34.17	2.12	26.42	161	0.50
165	9.67	34.019	2.83	-	-	-	177	250	8.95	34.30	1.45	26.60	145	0.58
189	9.46	34.119	2.36	-	-	-	166	300	8.37	34.32	1.02	26.70	135	0.65
215	9.36	34.233	1.81	-	-	-	156	400	7.11	34.30	0.65	26.87	119	0.78
259	8.84	34.302	1.35	-	-	-	143	500	6.23	34.32	0.58	27.01	106	0.90
307	8.29	34.322	0.99	-	-	-	133							
385	7.28	34.295	0.67	-	-	-	121							
463	6.50	34.308	0.60	-	-	-	110							
544	5.96	34.343	0.53	-	-	-	101							
ALEXANDER AGASSIZ; February 15, 1964; 2239 GCT; 30°00'N, 120°06.5'W; sounding, 2160 fm; wind, 320°, force 3; weather, cloudy; sea, rough; wire angle, 23°.														100.80
1	15.30	33.476	6.00	0.36	2	0.03	320	0	(15.30)	(33.48)	(6.00)	(24.76)	(320)	(0.00)
10	15.28	33.473	6.04	0.33	1	0.01	320	10	15.28	33.47	6.04	24.75	320	0.03
28	15.20	33.483	6.10	0.32	1	0.00	318	20	15.23	33.47	6.07	24.76	319	0.06
55	15.18	33.515	5.96	0.35	1	0.00	315	30	15.20	33.48	6.09	24.78	318	0.10
64	15.12	33.515	6.06	0.35	1	0.02	314	50	15.19	33.51	5.97	24.80	315	0.16
78	13.46	33.410	5.64	0.64	4	0.11	288	75	14.30	33.45	5.88	24.95	302	0.24
91	12.03	33.478	5.14	0.96	8	0.03	256	100	11.60	33.54	4.71	25.55	244	0.31
105	11.40	33.574	4.56	1.28	12	0.02	238	125	9.73	33.65	4.07	25.96	205	0.36
127	9.69	33.657	4.05	1.61	20	0.01	204	150	9.48	33.80	3.74	26.12	190	0.41
146	9.53	33.765	3.82	1.80	23	0.01	193	200	8.63	33.97	3.13	26.39	164	0.50
172	9.05	33.908	3.35	-	-	-	175	250	7.97	34.07	2.56	26.57	148	0.58
199	8.64	33.972	3.14	-	-	-	164	300	7.44	34.10	1.98	26.67	138	0.66
227	8.20	34.027	2.80	-	-	-	154	400	6.25	34.15	1.17	26.87	119	0.79
271	7.77	34.093	2.36	-	-	-	143	500	5.61	34.24	0.61	27.02	105	0.91
321	7.20	34.109	1.72	-	-	-	134							
398	6.27	34.146	1.18	-	-	-	119							
476	5.72	34.220	0.66	-	-	-	107							
554	5.42	34.305	0.58	-	-	-	97							
ALEXANDER AGASSIZ; February 15, 1964; 1406 GCT; 29°39'N, 120°50'W; sounding, 2090 fm; wind, 300°, force 3; weather, partly cloudy; sea, rough; wire angle, 18°.														100.90
0	15.20	33.420	6.14	0.36	0	0.02	322	0	15.20	33.42	6.14	24.73	322	0.00
9	15.18	33.420	3.00u	0.40	1	0.00	322	10	15.18	33.42		24.74	322	0.03
28	15.20	33.420	6.14	0.37	1	0.02	322	20	15.19	33.42		24.73	322	0.06
55	15.22	33.438	6.00	0.35	1	0.02	321	30	15.20	33.42	6.13	24.73	322	0.10
65	15.13	33.506	6.12	0.37	1	0.02	314	50	15.22	33.44	6.03	24.74	321	0.16
79	14.34	33.405	6.05	0.46	2	0.15	306	75	15.00	33.51	6.12	24.84	311	0.24
92	12.90	33.354	5.64	0.71	4	0.06	282	100	12.30	33.39	5.50	25.30	268	0.32
106	11.96	33.421	5.41	0.88	7	0.03	259	125	10.99	33.51	4.97	25.64	236	0.38
130	10.74	33.531	4.85	1.25	12	0.02	230	150	9.93	33.62	4.54	25.91	210	0.44
149	9.97	33.617	4.56	1.47	17	0.02	211	200	8.83	33.94	3.42	26.34	170	0.53
177	9.28	33.799	4.06	-	-	-	187	250	7.92	34.04	2.67	26.55	149	0.61
204	8.76	33.959	3.32	-	-	-	167	300	7.32	34.10	2.04	26.69	136	0.69
232	8.22	34.021	2.93	-	-	-	155	400	6.48	34.17	1.03	26.86	120	0.82
279	7.52	34.069	2.31	-	-	-	141	500	5.80	34.26	0.63	27.01	105	0.94
331	7.02	34.13	1.70	-	-	-	130							
411	6.40	34.177	0.95	-	-	-	119							
494	5.84	34.257	0.64	-	-	-	106							
576	5.24	34.282	0.57	-	-	-	97							

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OBSERVED							COMPUTED	INTERPOLATED				COMPUTED		
Z	T	S	O_2	PO_4-P	SiO_3-Si	NO_2-N	δ_T	Z	T	S	O_2	σ_t	δ_T	ΔD
m	°C	‰	ml/L	µg at/L	µg at/L	µg at/L	cl/ton	m	°C	‰	ml/L	g/L	cl/ton	dyn m

100.100 ALEXANDER AGASSIZ; February 15, 1964; 0602 GCT; 29°21'N, 121°27'W; sounding, 2120 fm; wind, 020°, force 3; weather, clear; sea, missing; wire angle, 22°.

1	15.52	33.418	6.01	0.36	1	0.02	329	0	(15.52)	(33.42)	(6.01)	(24.66)	(329)	(0.00)
10	15.50	33.417	6.00	0.35	1	0.02	329	10	15.50	33.42	6.00	24.67	329	0.03
28	15.53	33.419	6.04	0.32	1	0.02	329	20	15.51	33.42	6.02	24.66	329	0.07
36	15.58	33.439	5.99	0.35	1	0.01	329	30	15.54	33.42	6.03	24.66	329	0.10
50	15.14	33.365	6.07	0.34	1	0.02	325	50	15.14	33.36	6.07	24.70	325	0.16
64	14.60	33.416	6.00	0.41	2	0.12	310	75	14.75	33.58	5.87	24.95	301	0.24
86	14.58	33.647	5.71	0.46	3	0.09	293	100	13.40	33.57	5.51	25.23	275	0.32
103	12.46	33.500	5.40	0.73	6	0.05	263	125	11.98	33.70	5.20	25.60	239	0.38
121	12.14	33.689	5.25	0.84	9	0.03	243	150	10.33	33.74	4.43	25.93	208	0.44
140	11.14	33.725	4.87	1.07	12	-	223	200	9.33	33.98	3.20	26.29	174	0.53
166	9.78	33.791	4.12	-	-	-	195	250	8.55	34.10	2.63	26.50	154	0.62
197	9.36	33.968	3.23	-	-	-	176	300	7.84	34.11	2.21	26.62	143	0.70
224	8.98	34.037	2.94	-	-	-	165	400	6.94	34.21	1.10	26.83	123	0.83
269	8.30	34.106	2.47	-	-	-	150	500	6.18	34.28	0.64	26.98	108	0.96
318	7.58	34.117	2.04	-	-	-	139							
395	6.98	34.204	1.13	-	-	-	124							
471	6.38	34.259	0.74	-	-	-	112							
550	5.90	34.299	0.56	-	-	-	104							

100.120 ALEXANDER AGASSIZ; February 14, 1964; 1444 GCT; 28°34'N, 122°58'W; sounding, 2330 fm; wind, 350°, force 5; weather, cloudy; sea, very rough; wire angle, 24°.

0	17.44	33.980	5.68	0.22	0	0.01	330	0	17.44	33.98	5.68	24.65	330	0.00
9	17.44	33.963	5.74	0.21	0	0.00	332	10	17.44	33.96	5.73	24.63	332	0.03
46	17.45	33.959	5.71	0.21	0	0.01	332	20	17.44	33.96	5.73	24.63	332	0.07
80	17.48	33.962	5.64	0.22	0	0.01	332	30	17.44	33.96	5.72	24.63	332	0.10
98	17.44	33.959	5.74	0.23	0	0.01	332	50	17.46	33.96	5.70	24.63	332	0.17
112	17.44	33.957	5.72	0.23	1	0.01	332	75	17.48	33.96	5.67	24.62	333	0.25
130	16.16	34.059	5.44	0.26	2	0.13	296	100	17.44	33.96	5.74	24.63	332	0.33
148	14.72	33.953	5.46	0.36	3	0.03	273	125	16.24	34.06	5.46	24.99	298	0.41
167	12.66	33.826	5.06	0.62	6	0.01	242	150	14.42	33.93	5.41	25.29	269	0.48
195	11.14	33.783	4.47	0.96	13	0.01	218	200	10.93	33.79	4.33	25.87	214	0.61
222	10.16	33.892	3.74	-	-	-	194	250	9.21	33.94	3.62	26.28	175	0.71
245	9.39	33.931	3.66	-	-	-	179	300	8.18	34.03	2.99	26.51	153	0.79
279	8.53	33.994	3.35	-	-	-	161	400	7.06	34.14	1.51	26.75	130	0.94
321	7.90	34.055	2.65	-	-	-	148	500	6.10	34.21	0.82	26.94	113	1.07
376	7.34	34.119	1.77	-	-	-	135	600	5.37	34.28	0.54	27.08	99	1.18
455	6.40	34.171	1.07	-	-	-	119							
539	5.86	34.244	0.65	-	-	-	107							
611	5.27	34.282	0.54	-	-	-	98							

100.140 ALEXANDER AGASSIZ; February 14, 1964; 0236 GCT; 28°07.5'N, 124°02'W; sounding, 2300 fm; wind, 020°, force 4; weather, cloudy; sea, high; wire angle, 30°.

2	17.83	34.116	5.65	0.35	1	0.04	329	0	(17.83)	(34.12)	(5.65)	(24.66)	(329)	(0.00)
10	17.83	34.105	5.79	0.35	1	0.02	330	10	17.83	34.10	5.79	24.64	331	0.03
46	17.86	34.106	5.75	0.35	1	0.02	331	20	17.83	34.11	5.78	24.65	330	0.07
77	17.85	34.107	5.58	0.35	1	0.02	330	30	17.84	34.11	5.77	24.65	330	0.10
96	17.86	34.126	5.68	0.37	1	0.01	329	50	17.86	34.11	5.74	24.64	330	0.17
109	17.90	34.126	5.83	0.36	1	0.00	330	75	17.85	34.11	5.58	24.65	330	0.25
127	15.92	34.006	5.56	0.38	2	0.15	295	100	17.87	34.13	5.76	24.66	329	0.33
144	14.10	33.874	5.30	0.62	4	0.03	267	125	17.30	34.09	5.77	24.76	319	0.41
162	12.79	33.818	4.39u	1.08	9	0.03	245	150	13.50	33.85		25.42	257	0.49
189	11.02	33.732	4.92	1.11	12	0.01	229	200	10.79	33.78	4.74	25.88	213	0.61
215	10.08	33.810	4.42	-	-	-	199	250	8.98	33.92	3.98	26.30	173	0.70
237	9.34	33.865	4.22	-	-	-	183	300	8.10	34.02	3.27	26.51	153	0.79
268	8.59	33.976	3.64	-	-	-	163	400	6.72	34.10	1.82	26.77	129	0.93
308	7.98	34.026	3.17	-	-	-	151	500	5.91	34.19	0.87	26.95	112	1.06
359	7.18	34.072	2.34	-	-	-	137	600	(5.15)	(34.29)		(27.12)	(96)	(1.17)
435	6.40	34.135	1.43	-	-	-	122							
517	5.78	34.215	0.80	-	-	-	108							
587	5.24	34.280	0.73	-	-	-	97							

SIO
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6401

OBSERVED							COMPUTED	INTERPOLATED				COMPUTED		
Z	T	S	O_2	PO_4-P	SiO_3-Si	NO_2-N	δ_T	Z	T	S	O_2	σ_t	δ_T	ΔD
m	°C	‰	ml/L	µg at/L	µg at/L	µg at/L	cl/ton	m	°C	‰	ml/L	g/L	cl/ton	dyn m

ALEXANDER AGASSIZ; February 13, 1964; 1530 GCT; 27°29'N, 125°35'W; sounding, 2000+ fm; wind, 030°, force 6; weather, cloudy; sea, very rough; wire angle, 26°. 100.160

1	18.06	34.204	5.72	0.31	1	0.01	328	0	(18.06)	(34.20)	(5.72)	(24.66)	(329)	(0.00)
10	18.06	34.215	5.69	0.25	1	0.01	327	10	18.06	34.22	5.69	24.68	327	0.03
45	18.08	34.206	5.67	0.27	1	0.00	329	20	18.07	34.21	5.68	24.67	328	0.07
76	18.08	34.200	5.59	0.29	1	0.01	329	30	18.07	34.21	5.68	24.67	328	0.10
93	18.06	34.205	5.67	0.27	1	0.01	328	50	18.08	34.20	5.66	24.66	329	0.16
106	18.08	34.204	5.64	0.29	1	0.00	329	75	18.08	34.20	5.60	24.66	329	0.25
125	16.42	34.102	6.02	0.32	2	0.08	299	100	18.07	34.20	5.65	24.66	329	0.33
142	15.12	33.990	5.37	0.46	3	0.02	279	125	16.42	34.10	6.02	24.98	299	0.41
160	13.16	33.860	5.17	0.69	6	0.00	249	150	14.19	33.92	5.27	25.33	265	0.48
186	11.46	33.772	4.93	1.00	10	0.00	225	200	11.07	33.76	4.87	25.82	219	0.60
212	10.36	33.748	4.73	-	-	-	208	250	9.32	33.86	4.08	26.20	183	0.71
233	9.78	33.792	4.36	-	-	-	195	300	8.49	34.01	3.20	26.44	159	0.79
264	8.99	33.924	3.81	-	-	-	173	400	7.07	34.11	1.74	26.73	132	0.95
303	8.47	34.015	3.18	-	-	-	159							
351	7.67	34.074	2.38	-	-	-	143							
426	6.78	34.138	1.40	-	-	-	126							

ALEXANDER AGASSIZ; February 12, 1964; 2010 GCT; 26°45.5'N, 126°46.5'W; sounding, 2400 fm; wind, 040°, force 5; weather, cloudy; sea, very rough; wire angle, 21°. 100.180

1	18.03	34.250	5.66	0.05	1	0.02	324	0	(18.03)	(34.25)	(5.66)	(24.71)	(324)	(0.00)
10	18.03	34.251	5.73	0.08	1	0.03	324	10	18.03	34.25	5.73	24.71	324	0.03
48	18.12	34.257	5.69	0.05	1	0.02	326	20	18.04	34.25	5.72	24.71	324	0.06
80	18.14	34.252	5.57	0.13	1	0.01	327	30	18.07	34.25	5.71	24.70	325	0.10
100	18.12	34.256	5.64	0.08	1	0.01	326	50	18.12	34.26	5.68	24.70	326	0.16
113	18.12	34.256	5.66	0.08	1	0.02	326	75	18.14	34.25	5.67	24.68	327	0.24
132	16.70	34.180	5.56	0.11	2	0.16	299	100	18.12	34.26	5.64	24.70	326	0.33
151	15.29	34.010	5.50	0.15	3	0.05	281	125	17.33	34.21	5.60	24.85	311	0.41
170	13.85	33.958	5.36	0.23	4	0.03	255	150	15.36	34.03	5.50	25.16	281	0.48
198	11.79	33.792	5.10	0.51	8	0.01	229	200	11.68	33.79	5.09	25.73	227	0.61
226	10.16	33.899	4.87	-	-	-	193	250	9.19	33.89	4.23	26.24	179	0.72
250	9.19	33.893	4.23	-	-	-	179	300	7.98	34.00	3.32	26.51	153	0.80
284	8.28	33.981	3.56	-	-	-	159	400	6.83	34.12	1.50	26.77	128	0.95
326	7.58	34.021	2.94	-	-	-	146	500	5.93	34.21	0.82	26.96	111	1.07
378	7.07	34.093	1.89	-	-	-	134	600	5.32	34.30	0.62	27.10	97	1.18
460	6.22	34.166	0.98	-	-	-	117							
546	5.65	34.258	0.72	-	-	-	104							
618	5.20	34.318	0.60	-	-	-	94							

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6401

OBSERVED							COMPUTED	INTERPOLATED				COMPUTED		
Z	T	S	O_2	PO_4-P	SiO_3-Si	NO_2-N	δ_T	Z	T	S	O_2	σ_t	δ_T	ΔD
m	°C	‰	ml/L	µg at/L	µg at/L	µg at/L	cl/ton	m	°C	‰	ml/L	g/L	cl/ton	dyn m

100.180 ALEXANDER AGASSIZ; February 13-12, 1964; 0523, 0438, 0332, 0158, 2207 GCT;[a] 26°45.5'N, 126°46.5'W; sounding, 2400 fm; wind, 040°, force 5; weather, cloudy; sea, very rough; wire angle, 30°, 30°, 42°, 30°, 30°.

465	6.20													
469	6.17													
473	6.14													
478	6.07													
482	6.02													
487	6.01													
491	5.99													
496	6.02	34.201					112							
941	4.04													
945	4.17													
950	4.13													
955	4.05													
959	4.02													
964	4.03													
969	3.96													
973	3.96	34.492					68							
1999	2.12													
2004	2.11													
2008	2.11													
2013	2.10													
2018	2.13													
2023	2.10													
2028	2.07													
2033	2.10	34.633					41							
3131	1.56	34.673					34							
3136	1.55													
3146	1.56													
3151	1.54													
3161	1.55													
4135	1.54													
4140	1.55													
4145	1.54													
4150	1.53													
4155	1.64													
4160	1.54													
4164	1.52													
4169	1.52	34.687					33							

100.200 ALEXANDER AGASSIZ; February 12, 1964; 0820 GCT; 26°04.5'N, 128°06'W; sounding, 2400 fm; wind, 050°, force 7; weather, missing; sea, high; wire angle, 39°.

1	18.58	34.552	5.62	0.23	2	0.00	315	0	(18.58)	(34.55)	(5.62)	(24.80)	(315)	(0.00)
9	18.58	34.548	5.62	0.23	2	0.00	316	10	18.58	34.55	5.62	24.80	315	0.03
38	18.60	34.555	5.61	0.20	1	0.00	316	20	18.59	34.55	5.62	24.80	316	0.06
65	18.65	34.583	5.46	0.24	1	0.00	315	30	18.59	34.55	5.61	24.80	316	0.09
78	18.72	34.623	5.57	0.24	1	0.00	313	50	18.62	34.56	5.53	24.80	316	0.16
89	18.73	34.627	5.52	0.20	1	0.00	313	75	18.70	34.61	5.56	24.82	314	0.24
104	18.66	34.606	5.50	0.21	1	0.00	313	100	18.70	34.61	5.53	24.82	314	0.32
118	17.55	34.447	5.51	0.26	2	0.11	299	125	17.54	34.51	5.43	25.03	294	0.39
132	17.54	34.580	5.30	0.29	2	0.03	289	150	15.67	34.22	5.40	25.24	274	0.47
154	15.59	34.208	5.42	0.41	3	0.02	273	200	11.96	33.82	5.20	25.70	230	0.59
173	13.52	34.121u	5.31	-	-	-		250	9.93	33.81	4.72	26.06	196	0.70
191	12.54	33.868	5.23	-	-	-	237	300	8.71	33.94	3.67	26.35	168	0.80
216	11.08	33.783	5.14	-	-	-	217	400	6.88	34.03	2.03	26.69	136	0.95
248	10.00	33.805	4.76	-	-	-	198	500	(5.69)	(34.13)		(26.93)	(114)	(1.08)
287	9.01	33.923	3.93	-	-	-	174							
350	7.66	33.979	2.83	-	-	-	150							
418	6.64	34.056	1.79	-	-	-	131							
479	5.90	34.113	1.18	-	-	-	117							

a) Special casts to collect water samples for neo-dymium determination.

OBSERVED							COMPUTED	INTERPOLATED				COMPUTED			SIO
Z	T	S	O_2	PO_4-P	SiO_3-Si	NO_2-N	δ_T	Z	T	S	O_2	σ_t	δ_T	ΔD	CCOFI
m	°C	‰	ml/L	µg at/L	µg at/L	µg at/L	cl/ton	m	°C	‰	ml/L	g/L	cl/ton	dyn m	6401

ALEXANDER AGASSIZ; February 20, 1964; 0320 GCT; 29°46'N, 116°00'W; sounding, 632 fm; wind, 360°, force 3; weather, cloudy; sea, moderate; wire angle, 18°. 110.35

0	16.00	33.694	5.91	0.33	3	0.02	319	0	16.00	33.69	5.91	24.76	319	0.00
9	16.00	33.683	6.00	0.33	3	0.01	320	10	16.00	33.68	6.00	24.75	320	0.03
28	15.88	33.697	6.01	0.38	2	0.01	316	20	15.93	33.69	6.00	24.78	318	0.06
58	15.32	33.629	5.73	0.53	3	0.08	309	30	15.87	33.69	6.00	24.79	317	0.10
68	14.34	33.569	5.55	0.65	5	0.15	294	50	15.60	33.66	5.84	24.83	313	0.16
82	12.49	33.656	4.65	1.09	10	0.04	252	75	13.50	33.61	5.13	25.24	274	0.23
96	12.14	33.665	4.48	1.17	12	0.03	245	100	12.03	33.69	4.32	25.59	241	0.30
110	11.64	33.805	3.75	1.53	16	0.02	225	125	10.82	33.85	3.53	25.93	208	0.35
134	10.03	33.880	3.36	1.80	24	0.01	193	150	9.80	34.04	2.87	26.26	177	0.40
153	9.74	34.044	2.81	2.15	28	0.01	176	200	9.18	34.13	2.31	26.43	161	0.49
181	9.17	34.047	2.77	-	-	-	167	250	8.81	34.22	1.73	26.56	149	0.57
209	9.18	34.162	2.11	-	-	-	158	300	8.12	34.24	1.40	26.68	137	0.64
238	8.98	34.218	1.80	-	-	-	151	400	7.29	34.31	0.67	26.86	120	0.78
285	8.24	34.221	1.55	-	-	-	140	500	6.50	34.35	0.47	27.00	107	0.90
337	7.82	34.285	1.06	-	-	-	129	600	(5.75)					
418	7.14	34.321	0.59	-	-	-	118							
500	6.50	34.349	0.47	-	-	-	107							
582	5.88	-	0.44	-	-	-								

ALEXANDER AGASSIZ; February 20, 1964; 0609 GCT; 29°36'N, 116°20'W; sounding, 935 fm; wind, 280°, force 3; weather, missing; sea, moderate; wire angle, 11°. 110.40

0	15.90	33.643	5.87	0.34	0	0.01	321	0	15.90	33.64	5.87	24.75	321	0.00
10	15.72	33.623	5.91	0.36	1	0.01	318	10	15.72	33.62	5.91	24.77	319	0.03
29	15.51	33.609	5.91	0.35	1	0.01	315	20	15.61	33.62	5.91	24.79	316	0.06
60	13.83	33.465	5.58	0.64	3	0.20	291	30	15.50	33.61	5.91	24.81	315	0.10
70	12.78	33.471	5.36	0.80	5	0.09	271	50	14.95	33.56	5.81	24.89	307	0.16
84	12.28	33.511	5.03	0.96	6	0.05	259	75	12.52	33.49	5.20	25.34	264	0.23
99	11.20	33.585	4.59	1.23	10	0.03	234	100	11.17	33.59	4.58	25.67	233	0.29
114	10.66	33.673	4.40	1.37	13	0.02	218	125	10.32	33.76	4.00	25.95	206	0.35
138	9.94	33.869	3.52	1.80	20	0.02	192	150	9.76	33.91	3.36	26.16	186	0.40
157	9.62	33.930	3.30	1.93	23	0.01	182	200	8.83	34.01	2.89	26.39	164	0.49
186	8.92	33.955	3.21	-	-	-	170	250	8.37	34.12	2.19	26.55	150	0.57
216	8.73	34.070	2.52	-	-	-	159	300	8.26	34.25	1.31	26.67	138	0.64
245	8.38	34.103	2.28	-	-	-	151	400	7.00	34.30	0.62	26.89	117	0.78
293	8.32	34.248	1.39	-	-	-	139	500	6.14	34.33	0.49	27.03	104	0.89
347	7.54	34.269	0.92	-	-	-	127	600	(5.38)	(34.36)	(0.46)	(27.15)	(93)	(1.00)
430	6.72	34.309	0.52	-	-	-	113							
512	6.04	34.337	0.49	-	-	-	102							
596	5.40	34.357	0.46	-	-	-	93							

ALEXANDER AGASSIZ; February 20, 1964; 1136 GCT; 29°16'N, 117°01.5'W; sounding, 1990 fm; wind, 350°, force 4; weather, clear; sea, rough; wire angle, 15°. 110.50

0	16.54	33.800	5.90	0.28	2	0.01	323	0	16.54	33.80	5.90	24.72	323	0.00
10	16.53	33.792	5.83	0.31	2	0.00	324	10	16.53	33.79	5.83	24.72	324	0.03
29	16.50	33.792	5.83	0.29	1	0.01	323	20	16.51	33.79	5.83	24.72	323	0.06
58	16.52	33.794	5.73	0.29	2	0.00	323	30	16.50	33.79	5.83	24.72	323	0.10
68	16.52	33.805	5.80	0.30	2	0.00	322	50	16.51	33.79	5.76	24.72	323	0.16
82	16.56	33.814	5.75	0.32	2	0.02	323	75	16.55	33.81	5.78	24.73	323	0.24
97	14.82	33.721	5.13	0.63	5	0.08	292	100	14.20	33.70	4.99	25.16	281	0.32
112	13.65	33.694	4.85	0.84	8	0.04	271	125	12.00	33.74	4.22	25.63	237	0.38
136	11.00	33.745	3.92	1.45	17	0.01	219	150	10.17	33.78	3.90	25.99	202	0.44
155	9.96	33.792	3.87	1.64	20	0.01	198	200	9.97	34.16	2.20	26.32	171	0.54
184	9.64	33.983	3.05	-	-	-	179	250	9.78	34.36	1.16	26.51	153	0.62
212	10.19	34.273	1.65	-	-	-	166	300	9.33	34.39	0.82	26.61	144	0.70
242	9.84	34.351	1.22	-	-	-	155	400	7.95	34.36	0.63	26.80	126	0.84
290	9.46	34.394	0.88	-	-	-	146	500	6.74	34.37	0.47	26.98	109	0.96
342	8.70	34.389	0.73	-	-	-	134	600	(6.00)	(34.39)		(27.09)	(98)	(1.07)
424	7.64	34.346	0.60	-	-	-	122							
506	6.68	34.369	0.45	-	-	-	108							
588	6.08	34.387	0.33	-	-	-	99							

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	OBSERVED							COMPUTED	INTERPOLATED				COMPUTED		
	Z	T	S	O_2	PO_4-P	SiO_3-Si	NO_2-N	δ_T	Z	T	S	O_2	σ_t	δ_T	ΔD
	m	°C	‰	ml/L	µg at/L	µg at/L	µg at/L	cl/ton	m	°C	‰	ml/L	g/L	cl/ton	dyn m
110.60	ALEXANDER AGASSIZ; February 20, 1964; 1703 GCT; 28°57'N, 117°38'W; sounding, 1900 fm; wind, 320°, force 3; weather, partly cloudy; sea, very rough; wire angle, 13°.														
	0	16.44	33.746	5.86	0.33	1	0.00	325	0	16.44	33.75	5.86	24.71	325	0.00
	10	16.39	33.736	5.88	0.33	0	0.00	325	10	16.39	33.74	5.88	24.71	324	0.03
	29	16.43	33.784	5.89	0.33	0	0.00	322	20	16.42	33.76	5.88	24.72	323	0.06
	39	16.46	33.832	5.78	0.35	1	0.00	319	30	16.44	33.79	5.88	24.74	322	0.10
	53	16.62	33.938	5.84	0.37	1	0.01	315	50	16.57	33.91	5.83	24.80	316	0.16
	68	16.92	34.103	5.42	0.51	2	0.36	310	75	16.35	34.04	5.47	24.95	302	0.24
	92	13.72	33.643	5.72	0.71	5	0.05	276	100	13.25	33.67	5.20	25.33	265	0.31
	110	12.66	33.694	4.51	1.09	8	0.02	252	125	11.85	33.71	4.30	25.64	236	0.37
	130	11.26	33.726	4.12	1.38	13	0.02	225	150	11.19	34.00	2.65	25.98	203	0.43
	149	11.20	33.998	2.69	1.98	20	0.01	204	200	9.97	34.16	2.27	26.32	171	0.52
	177	10.94a)	34.204	1.91	-	-	-	184	250	9.28	34.22	1.90	26.48	156	0.61
	211	9.57a)	34.140	2.35	-	-	-	166	300	8.87	34.32	1.31	26.63	142	0.69
	240	9.36a)	34.198	2.01	-	-	-	159	400	7.73	34.32	0.80	26.80	126	0.83
	287	8.96	34.298	1.44	-	-	-	145	500	6.70	34.36	0.50	26.98	109	0.95
	340	8.58	34.346	1.05	-	-	-	136	600	(5.97)	(34.38)		(27.09)	(98)	(1.06)
	421	7.43	34.315	0.71	-	-	-	122							
	503	6.68	34.358	0.49	-	-	-	109							
	586	6.06	34.376	0.41	-	-	-	100							
110.70	ALEXANDER AGASSIZ; February 20, 1964; 2230 GCT; 28°36.5'N, 118°17'W; sounding, 1800 fm; wind, 070°, force 3; weather, clear; sea, rough; wire angle, 05°.														
	0	17.02	33.727	5.86	0.32	1	0.00	339	0	17.02	33.73	5.86	24.56	339	0.00
	10	16.37	33.714	5.89	0.33	1	0.00	326	10	16.37	33.71	5.89	24.69	326	0.03
	30	16.34	33.725	5.91	0.31	1	0.00	324	20	16.35	33.72	5.90	24.70	325	0.07
	55	16.36	33.731	5.79	0.32	0	0.00	324	30	16.34	33.72	5.91	24.71	325	0.10
	65	16.36	33.738	5.86	0.31	0	0.00	324	50	16.35	33.73	5.83	24.71	324	0.16
	75	16.38	33.738	5.84	0.32	1	0.00	324	75	16.38	33.74	5.84	24.71	324	0.25
	90	16.82	33.952	5.70	0.40	1	0.02	318	100	14.75	33.71	4.99	25.05	292	0.32
	104	14.44	33.701	4.85	0.81	5	0.04	286	125	12.40	33.74	4.32	25.55	244	0.39
	129	11.72	33.711	4.25	1.23	10	0.01	234	150	10.60	33.75	4.13	25.89	212	0.45
	149	10.62	33.745	4.13	1.43	14	0.00	212	200	9.07	33.90	3.94	26.27	176	0.55
	174	9.78	33.805	3.96	-	-	-	194	250	8.45	34.03	2.99	26.47	157	0.63
	204	8.99	33.919	3.92	-	-	-	174	300	8.03	34.14	2.00	26.62	143	0.71
	234	8.64	34.000	3.28	-	-	-	162	400	7.37	34.28	0.78	26.82	124	0.85
	274	8.18	34.068	2.58	-	-	-	151	500	6.61	34.36	0.48	26.99	108	0.97
	334	7.84	34.232	1.27	-	-	-	134							
	408	7.30	34.285	0.72	-	-	-	122							
	483	6.76	34.349	0.50	-	-	-	110							
	563	6.02	34.366	0.44	-	-	-	100							
110.80	ALEXANDER AGASSIZ; February 21, 1964; 0259 GCT; 28°18'N, 118°57'W; sounding, 2095 fm; wind, 030°, force 3; weather, clear; sea, rough; wire angle, 02°.														
	0	16.84	33.780	5.74	0.33	1	0.01	331	0	16.84	33.78	5.74	24.64	331	0.00
	10	16.54	33.770	5.74	0.31	2	0.00	325	10	16.54	33.77	5.74	24.70	325	0.03
	30	16.47	33.770	5.85	0.33	2	0.00	324	20	16.48	33.77	5.84	24.71	324	0.07
	55	16.61	33.861	5.67	0.36	2	0.01	320	30	16.47	33.77	5.85	24.71	324	0.10
	65	16.72	33.978	5.67	0.38	2	0.03	314	50	16.56	33.82	5.70	24.73	322	0.16
	75	16.22	33.942	5.35	0.51	3	0.14	306	75	16.22	33.94	5.35	24.90	306	0.24
	90	13.66	33.623	5.07	0.75	5	0.03	276	100	12.18	33.51	4.93	25.42	257	0.31
	105	11.56	33.478	4.88	1.04	9	0.01	248	125	10.78	33.64	4.58	25.78	223	0.37
	130	10.60	33.681	4.49	1.29	14	0.01	217	150	10.12	33.76	4.13	25.98	203	0.43
	150	10.12	33.765	4.13	1.52	19	0.01	203	200	9.60	34.05	2.62	26.30	173	0.52
	176	9.86	33.919	3.27	-	-	-	187	250	9.22	34.19	2.00	26.47	157	0.61
	206	9.55	34.079	2.48	-	-	-	170	300	7.86	34.17	1.77	26.66	139	0.68
	235	9.59	34.195	2.03	-	-	-	162	400	6.98	34.28	0.67	26.88	118	0.82
	275	8.33	34.160	1.97	-	-	-	146	500	6.46	34.33	0.47	26.99	108	0.94
	335	7.36	34.182	1.44	-	-	-	131							
	410	6.91	34.291	0.61	-	-	-	117							
	485	6.52	34.321	0.56	-	-	-	109							
	565	6.13	34.333	0.42	-	-	-	104							

a) The bathythermograph indicates considerable mixing between 177 and 240 meters. Since these features may be transient, they have not been incorporated in the property curves.

OBSERVED							COMPUTED	INTERPOLATED				COMPUTED		
Z	T	S	O_2	PO_4-P	SiO_3-Si	NO_2-N	δ_T	Z	T	S	O_2	σ_t	δ_T	ΔD
m	°C	‰	ml/L	µg at/L	µg at/L	µg at/L	cl/ton	m	°C	‰	ml/L	g/L	cl/ton	dyn m
ALEXANDER AGASSIZ; February 21, 1964; 0741 GCT; 27°58'N, 119°33.5'W; sounding, 2110 fm; wind, 120°, force 2; weather, clear; sea, moderate; wire angle, 08°.														110.90
0	16.40	33.713	5.89	0.30	2	0.01	326	0	16.40	33.71	5.89	24.68	327	0.00
10	16.40	33.712	5.79	0.27	1	0.00	327	10	16.40	33.71	5.79	24.68	327	0.03
45	16.60	33.878	5.84	0.32	2	0.00	319	20	16.44	33.75	5.80	24.71	325	0.07
75	16.49	33.851	5.70	0.32	2	0.01	318	30	16.60	33.87	5.87	24.76	319	0.10
94	14.05	33.565	5.63	0.46	3	0.10	288	50	16.59	33.87	5.83	24.76	319	0.16
109	12.50	33.475	5.36	0.76	6	0.03	265	75	16.49	33.85	5.70	24.77	318	0.24
124	11.84	33.556	4.84	0.93	9	0.02	247	100	13.37	33.52	5.53	25.19	278	0.32
144	10.86	33.654	4.18	1.42	14	0.02	223	125	11.82	33.56	4.78	25.53	247	0.38
164	10.38	33.773	3.64	1.63	19	0.01	206	150	10.71	33.69	3.98	25.83	218	0.44
193	9.50	33.903	3.38	1.86	26	0.01	183	200	9.36	33.94	3.20	26.25	178	0.54
218	9.36	34.018	2.95	-	-	-	172	250	8.61	34.04	2.80	26.45	159	0.63
243	8.74	34.027	2.88	-	-	-	162	300	8.05	34.13	2.03	26.60	144	0.71
277	8.17	34.083	2.41	-	-	-	149	400	6.68	34.20	1.07	26.85	121	0.85
317	7.94	34.162	1.81	-	-	-	140	500	6.03	34.29	0.53	27.01	106	0.96
367	6.90	34.157	1.44	-	-	-	127	600	5.77	34.38	0.50	27.11	96	1.07
436	6.47	34.243	0.72	-	-	-	115							
520	5.91	34.309	0.51	-	-	-	103							
606	5.76	34.385	0.50	-	-	-	95							
ALEXANDER AGASSIZ; February 21, 1964; 1228 GCT; 27°39'N, 120°10.5'W; sounding, 2165 fm; wind, 080°, force 3; weather, missing; sea, moderate; wire angle, 09°.														110.100
0	16.71	33.742	5.81	0.33	0	0.00	331	0	16.71	33.74	5.81	24.64	331	0.00
10	16.72	33.734	5.80	0.32	0	0.00	332	10	16.72	33.73	5.80	24.63	332	0.03
45	16.72	33.751	5.80	0.32	0	0.00	331	20	16.72	33.74	5.80	24.63	332	0.07
75	16.80	33.777	5.68	0.32	0	0.00	331	30	16.72	33.74	5.80	24.63	332	0.10
94	16.88	33.828	5.74	0.29	0	0.00	329	50	16.73	33.76	5.78	24.65	330	0.17
108	15.53	33.854	5.59	0.40	2	0.06	297	75	16.80	33.78	5.68	24.65	330	0.25
123	14.54	33.832	5.25	0.54	3	0.02	278	100	16.88	33.84	5.76	24.67	328	0.33
143	13.12	33.752	5.20	0.71	5	0.02	256	125	14.41	33.82	5.23	25.21	277	0.41
162	12.04	33.738	4.99	0.87	7	0.00	237	150	12.74	33.74	5.13	25.49	250	0.48
191	9.98	33.772	4.37	1.38	16	0.00	200	200	9.74	33.81	4.25	26.09	193	0.59
217	9.38	33.871	4.00	-	-	-	183	250	8.56	33.99	3.15	26.42	162	0.68
241	8.72	33.962	3.32	-	-	-	166	300	7.89	34.09	2.30	26.60	145	0.76
275	8.20	34.048	2.72	-	-	-	152	400	6.92	34.22	1.02	26.84	122	0.90
314	7.72	34.103	2.09	-	-	-	142	500	6.39	34.33	0.50	26.99	107	1.02
363	7.20	34.171	1.41	-	-	-	129	600	5.92	34.39	0.37	27.10	97	1.13
433	6.71	34.251	0.77	-	-	-	117							
516	6.32	34.346	0.47	-	-	-	105							
601	5.92	34.388	0.36	-	-	-	97							

SIO

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	OBSERVED							COMPUTED	INTERPOLATED				COMPUTED		
	Z	T	S	O_2	PO_4-P	SiO_3-Si	NO_2-N	δ_T	Z	T	S	O_2	σ_t	δ_T	ΔD
	m	°C	‰	ml/L	µg at/L	µg at/L	µg at/L	cl/ton	m	°C	‰	ml/L	g/L	cl/ton	dyn m
110.120	ALEXANDER AGASSIZ; February 22-21, 1964; 0118, 2234 GCT; 26°57.5'N, 121°30'W; sounding, 2255 fm; wind, 080°, force 4; weather, partly cloudy; sea, very rough; wire angle, 21°, 33°.														
	0	17.62	33.967	5.75	0.42	2	0.02	335	0	17.62	33.97	5.75	24.60	335	0.00
	9	17.61	33.961	5.87	0.30	1	0.02	336	10	17.61	33.96	5.86	24.59	336	0.03
	37	17.48	33.966	5.67	0.28	1	0.02	332	20	17.55	33.96	5.80	24.61	334	0.07
	75	17.48	33.963	5.72	0.28	1	0.01	332	30	17.50	33.96	5.70	24.62	333	0.10
	94	17.40	33.951	5.65	0.31	1	0.00	331	50	17.48	33.96	5.69	24.62	333	0.17
	118	15.35	33.877	5.50	0.43	3	0.04	292	75	17.48	33.96	5.72	24.62	333	0.25
	188	11.00	33.770	4.73	1.14	11	0.02	217	100	17.36	33.95	5.64	24.64	331	0.33
	260	9.09	33.973	3.59	1.90	24	0.02	171	125	15.06	33.87	5.47	25.11	286	0.41
	332	8.39	34.175	2.06	2.56	39	0.02	146	150	12.60	33.78	5.11	25.55	245	0.48
	402	7.50	34.238	1.30	2.82	51	0.02	129	200	10.70	33.81	4.58	25.92	209	0.60
	473	6.60	34.262	0.84	3.08	63	-	115	250	9.27	33.95	3.76	26.27	176	0.69
	567	5.66	34.296	0.58	3.25	75	-	101	300	8.70	34.10	3.69	26.48	156	0.78
	662	5.34	34.386	0.54	3.30	79	-	91	400	7.52	34.24	1.32	26.77	129	0.93
	757	4.94	34.427	0.54	3.34	84	-	83	500	6.28	34.27	0.73	26.96	110	1.05
	853	4.62	34.455	0.62	3.44	93	-	77	600	5.51	34.33	0.56	27.11	97	1.16
	948	4.34	34.477	0.69	3.46	101	-	73	700	5.19	34.41	0.54	27.21	87	1.26
	1044	3.99	34.504	0.83	3.46	108	-	67	800	4.81	34.44	0.59	27.27	81	1.36
	1138	3.74	34.521	0.85	3.41	119	-	64	1000	4.17	34.49	0.75	27.38	70	1.52
	1188	3.62	34.523	0.95	3.40	112	-	62	1200	3.59	34.53	0.90	27.48	62	1.68
	1236	3.52	34.530	0.95	3.40	113	-	61	1500	2.96	34.58	1.35	27.58	52	1.88
									2000	2.14	34.62	2.10	27.68	42	2.16
	905a)	4.54	34.468	0.74	3.33	96	-	76	2500	1.80	34.66	2.60	27.74	37	2.41
	993	4.22	34.487	0.72	3.40	97	-	71	3000	1.64	34.67	2.89	27.76	35	2.64
	1171	3.67	34.523	0.86	3.41	111	-	63	4000	1.58	34.68	3.25	27.77	34	3.10
	1349	3.26	34.546	1.03	3.34	122	-	57							
	1525	2.90	34.586	1.39	3.34	125	-	51							
	1705	2.53	34.603	1.63	3.18	135	-	47							
	1883	2.29	34.617	1.92	3.13	140	-	44							
	2062	2.08	34.628	2.19	2.95	144	-	41							
	2242	1.94	34.646	2.35	3.01	147	-	39							
	2421	1.84	34.654	2.53	2.92	132	-	38							
	2604	1.74	34.660	2.68	2.89	143	-	36							
	2786	1.67	34.663	2.81	2.76	149	-	36							
	2970	1.64	34.675	2.87	2.79	144	-	35							
	3154	1.62	34.673	3.00	2.74	148	-	35							
	3337	1.60	34.679	3.10	2.79	149	-	34							
	3524	1.57	34.673	3.05	2.77	149	-	34							
	3712	1.56	34.691	3.22	2.75	149	-	33							
	3900	1.57	34.687	3.21	2.79	141	-	33							
	3994	1.58	34.680	3.26	2.74	148	-	34							
	4088	1.64	34.669	2.92	3.12	149	-	35							
113.30	ALEXANDER AGASSIZ; March 4, 1964; 1110 GCT; 29°22'N, 115°18'W; sounding, 34 fm; wind, 350°, force 4; weather, clear; sea, missing; wire angle, 00°.														
	0	14.10	33.616	5.88	0.35	5	0.02	285	0	14.10	33.62	5.88	25.12	285	0.00
	5	14.06	33.614	6.03	0.39	6	0.02	285	10	14.08	33.62	5.95	25.12	285	0.03
	20	14.10	33.620	5.80	0.47	7	0.02	285	20	14.10	33.62	5.80	25.12	285	0.06
	30	13.88	33.607	5.70	0.46	6	0.02	282	30	13.88	33.61	5.70	25.16	282	0.09
	40	13.42	33.596	5.24	0.76	7	0.05	274	50	12.52	33.61	4.77	25.43	256	0.14
	50	12.52	33.609	4.77	1.00	11	0.02	256							

a) Overlapping casts; reconciliation of property curves when necessary.

OBSERVED							COMPUTED	INTERPOLATED				COMPUTED		
Z	T	S	O_2	PO_4-P	SiO_3-Si	NO_2-N	δ_T	Z	T	S	O_2	σ_t	δ_T	ΔD
m	°C	‰	ml/L	µg at/L	µg at/L	µg at/L	cl/ton	m	°C	‰	ml/L	g/L	cl/ton	dyn m
ALEXANDER AGASSIZ; March 4, 1964; 0700 GCT; 28°54.5'N, 115°27'W; sounding, 640 fm; wind, 330°, force 5; weather, clear; sea, high; wire angle, 30°.														115.35
1	14.69	33.674	5.89	0.47	5	0.04	293	0	(14.69)	(33.67)	(5.89)	(25.03)	(293)	(0.00)
9	14.66	33.667	6.05	0.48	4	0.04	293	10	14.66	33.67	6.04	25.04	293	0.03
30	14.68	33.669	5.85	0.46	4	0.03	293	20	14.67	33.67	5.95	25.04	293	0.06
56	14.37	33.659	5.63	0.57	5	0.08	288	30	14.68	33.67	5.85	25.04	293	0.09
63	14.13	33.658	5.33	0.70	6	0.08	283	50	14.48	33.66	5.68	25.07	290	0.15
79	12.02	33.642	4.28	0.99	12	0.04	244	75	13.50	33.65	4.85	25.27	271	0.22
92	11.66	33.683	4.11	1.38	14	0.02	235	100	11.37	33.77	3.77	25.77	223	0.28
104	11.14	33.833	3.46	1.68	19	0.02	215	125	10.68	33.99	2.67	26.07	195	0.33
128	10.62	34.010	2.61	2.06	26	0.01	193	150	10.27	34.11	2.28	26.23	180	0.38
144	10.26	34.055	2.50	2.12	27	0.00	184	200	10.08	34.32	1.21	26.43	161	0.47
169	10.30	34.266	1.58	-	-	-	169	250	9.74	34.36	1.08	26.52	153	0.55
197	10.10	34.319	1.24	-	-	-	161	300	9.15	34.38	0.86	26.63	142	0.62
224	9.94	34.339	1.15	-	-	-	157	400	7.60	34.34	0.68	26.84	122	0.76
266	9.58	34.366	1.01	-	-	-	150	500	6.47	34.36	0.51	27.01	106	0.88
322	8.82	34.379	0.75	-	-	-	137							
410	7.46	34.338	0.67	-	-	-	121							
491	6.54	34.354	0.52	-	-	-	107							
562	6.02	34.37	0.40	-	-	-	100							
ALEXANDER AGASSIZ; March 3, 1964; 2247 GCT; 28°19'N, 114°53'W; sounding, 57 fm; wind, 300°, force 5; weather, partly cloudy; sea, very rough; wire angle, 22°.														119.33
0	15.80	33.824	5.31	0.40	3	0.04	305	0	15.80	33.82	5.31	24.91	306	0.00
9	15.80	33.825	5.52	0.40	2	0.05	305	10	15.80	33.82	5.53	24.91	306	0.03
19	15.79	33.823	5.56	0.37	2	0.03	305	20	15.79	33.82	5.55	24.91	305	0.06
28	15.80	33.826	5.53	0.42	2	0.03	305	30	15.79	33.82	5.52	24.91	305	0.09
47	15.76	33.825	5.45	0.45	4	0.05	304	50	15.76	33.83	5.44	24.92	304	0.15
70	15.76	33.828	5.42	0.41	4	0.05	304	75	(15.74)	(33.83)		(24.93)	(304)	(0.23)
ALEXANDER AGASSIZ; February 24, 1964; 0429 GCT; 27°43'N, 115°33'W; sounding, 1210 fm; wind, 320°, force 4; weather, clear; sea, moderate; wire angle, 17°.														120.45
0	15.99	33.737	6.02	0.31	2	0.00	316	0	15.99	33.74	6.02	24.80	316	0.00
10	15.98	33.730	6.17	0.31	2	0.00	316	10	15.98	33.73	6.17	24.80	316	0.03
29	15.34	33.677	5.86	0.40	2	0.07	306	20	15.78	33.71	6.08	24.83	313	0.06
38	14.83	33.654	5.65	0.52	3	0.14	297	30	15.30	33.67	5.82	24.90	306	0.09
53	13.98	33.677	5.10	0.75	5	0.12	279	50	14.17	33.67	5.19	25.14	283	0.15
67	12.96	33.669	4.74	0.99	8	0.06	260	75	12.60	33.82	3.70	25.58	242	0.22
91	12.48	33.883	3.38	1.57	17	0.02	235	100	12.30	33.91	3.27	25.71	230	0.28
111	11.69	33.934	3.07	1.76	21	0.01	217	125	11.10	34.03	2.70	26.02	199	0.33
130	11.02	34.036	2.69	2.03	23	0.00	198	150	9.74	33.97	3.04	26.21	181	0.38
149	9.76	33.969	3.05	2.00	25	0.00	182	200	9.44	34.16	2.10	26.41	163	0.47
178	9.52	34.117	2.42	-	-	-	167	250	9.05	34.27	1.50	26.56	148	0.55
211	9.39	34.191	1.91	-	-	-	160	300	8.61	34.31	1.11	26.66	139	0.62
240	9.14	34.258	1.59	-	-	-	151	400	7.66	34.34	0.69	26.83	123	0.76
288	8.72	34.300	1.19	-	-	-	141	500	6.71	34.38	0.46	26.99	107	0.88
341	8.16	34.326	0.87	-	-	-	131	600	(5.86)	(34.37)	(0.45)	(27.09)	(98)	(0.99)
423	7.48	34.345	0.64	-	-	-	120							
506	6.65	34.378	0.45	-	-	-	107							
590	5.92	34.369	0.45	-	-	-	99							

SIO

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120.48

ALEXANDER AGASSIZ; March 2, 1964; 1543, 1155 GCT; 27°40'N, 115°47'W; sounding, 2400 fm; wind, 310°, force 4; weather, cloudy; sea, rough; wire angle, 24°, 39°.

OBSERVED							COMPUTED	INTERPOLATED				COMPUTED		
Z m	T °C	S ‰	O_2 ml/L	PO_4-P µg at/L	SiO_3-Si µg at/L	NO_2-N µg at/L	δ_T cl/ton	Z m	T °C	S ‰	O_2 ml/L	σ_t g/L	δ_T cl/ton	ΔD dyn m
0	15.42	33.723	5.94	0.44	7	0.01	305	0	15.42	33.72	5.94	24.91	305	0.00
9	15.41	33.720	5.93	0.44	5	0.02	305	10	15.41	33.72	5.94	24.92	305	0.03
28	15.41	33.730	6.01	0.47	4	0.06	304	20	15.41	33.72	5.97	24.92	305	0.06
45	15.18	33.820	5.50	0.63	6	0.22	293	30	15.41	33.73	6.00	24.92	304	0.09
69	14.78	33.928	4.85	0.93	9	0.47	276	50	15.00	33.88	5.17	25.13	284	0.15
91	13.23	33.822	3.85	1.44	12	0.08	253	75	14.66	33.92	4.74	25.23	274	0.22
137	12.26	34.269	1.60	2.32	24	0.03	202	100	13.30	33.90	3.64	25.50	249	0.29
189	9.96	34.171	1.95	2.42	31	0.02	170	125	12.50	34.12	2.18	25.83	218	0.35
248	9.15	34.330	1.10	2.79	39	0.01	146	150	11.72	34.25	1.67	26.08	194	0.40
314	8.32	34.343	0.82	2.90	43	0.00	132	200	9.76	34.20	1.83	26.39	165	0.49
382	7.64	34.341	0.64	3.09	46	-	123	250	9.13	34.33	1.08	26.59	145	0.57
450	6.97	34.338	0.54	3.17	51	-	114	300	8.50	34.34	0.88	26.70	135	0.64
540	6.18	34.359	0.42	3.30	68	-	102	400	7.47	34.34	0.62	26.85	121	0.78
631	5.52	34.381	0.43	3.45	73	-	93	500	6.49	34.35	0.47	27.00	107	0.90
722	5.02	34.425	0.43	3.48	84	-	84	600	5.73	34.37	0.42	27.11	96	1.01
905	4.22	34.470	0.59	3.44	92	-	72	700	5.13	34.42	0.43	27.22	86	1.10
1089	3.72	34.514	0.85	3.37	106	-	64	800	4.64	34.45	0.48	27.30	78	1.19
1274	3.24	34.546	1.91u	3.31	125	-	57	1000	3.94	34.49	0.75	27.41	68	1.36
1365	3.03	34.559	1.25	3.29	126	-	54	1200	3.47	34.53	0.92	27.49	60	1.50
1459	2.84	34.570	1.36	3.28	128	-	52	1500	2.81	34.57	1.26	27.58	52	1.70
								2000	2.08	34.64	2.17	27.70	40	1.98
1298a)	3.34	34.541	0.44u	3.27	130	-	58	2500	1.79	34.65	2.67	27.73	38	2.22
1375	3.11	34.552	0.25u	3.27	131	-	56	3000	1.63	34.67	2.88	27.76	35	2.45
1453	2.98	34.559	1.01	3.23	135	-	54	4000	1.67	34.67	3.09	27.75	35	2.92
1610	2.66	34.585	1.45	3.18	147	-	49							
1767	2.38	34.612	1.78	3.09	148	-	45							
1924	2.14	34.628	2.11	3.04	155	-	42							
2083	2.04b)	34.637	2.23	2.96	168	-	40							
2245	1.92	34.645	2.48	2.94	149	-	39							
2407	1.83	34.655	2.61	2.92	162	-	37							
2575	1.77	34.657	2.72	2.89	164	-	37							
2749	1.68	34.662	2.88	2.81	165	-	36							
2922	1.64	34.664	2.88	2.77	171	-	35							
3100	1.62	34.672	2.87	2.79	173	-	35							
3282	1.63	34.669	3.01	2.77	171	-	35							
3463	1.64	34.671	3.02	2.76	162	-	35							
3646	1.63	34.669	3.09	2.76	153	-	35							
3832	1.66	34.671	3.12	2.79	155	-	35							
4020	1.68	34.672	3.08	2.84	160	-	35							
4211	1.70	34.671	3.08	2.74	156	-	35							
4404	1.72	34.669	3.17	2.83	-	-	36							

a) Overlapping casts; reconciliation of property curves when necessary.
b) Mean value of 2.01 and 2.07°C.

OBSERVED							COMPUTED	INTERPOLATED				COMPUTED		
Z	T	S	O_2	PO_4-P	SiO_3-Si	NO_2-N	δ_T	Z	T	S	O_2	σ_t	δ_T	ΔD
m	°C	‰	ml/L	µg at/L	µg at/L	µg at/L	cl/ton	m	°C	‰	ml/L	g/L	cl/ton	dyn m

ALEXANDER AGASSIZ; February 24, 1964; 0145 GCT; 27°34.5'N, 115°51.5'W; sounding, 2220 fm; wind, 330°, force 4; weather, partly cloudy; sea, rough; wire angle, 12°. 120.50

0	16.12	33.701	5.95	0.33	1	0.01	321	0	16.12	33.70	5.95	24.74	321	0.00
10	16.09	33.691	5.96	0.33	1	0.01	321	10	16.09	33.69	5.96	24.74	321	0.03
29	15.99	33.685	5.97	0.33	1	0.01	320	20	16.03	33.69	5.97	24.75	320	0.06
59	15.92	33.694	5.85	0.35	1	0.01	317	30	15.99	33.69	5.94	24.76	319	0.10
69	15.78	33.789	5.58	0.49	3	0.13	307	50	15.95	33.69	5.91	24.77	318	0.16
83	13.78	33.685	4.71	0.93	7	0.07	274	75	15.50	33.78	5.44	24.94	302	0.24
98	12.75	33.722	4.25	1.15	10	0.03	252	100	12.70	33.73	4.24	25.49	250	0.31
113	11.71	33.744	4.17	1.30	13	0.02	231	125	10.92	33.78	3.81	25.86	215	0.37
137	10.68	33.858	3.43	1.72	20	0.02	205	150	10.65	34.06	2.48	26.13	190	0.42
157	10.64	34.125	2.19	2.23	27	0.01	185	200	10.20	34.21	1.95	26.32	171	0.51
186	10.56	34.203	1.98	-	-	-	178	250	9.30	34.26	1.64	26.51	153	0.59
215	9.79	34.210	1.92	-	-	-	164	300	8.47	34.25	1.49	26.63	141	0.67
245	9.38	34.259	1.66	-	-	-	154	400	7.64	34.33	0.66	26.82	124	0.81
293	8.54	34.239	1.54	-	-	-	143	500	6.72	34.36	0.43	26.97	109	0.93
347	8.18	34.307	0.97	-	-	-	133	600	5.79		0.37			
437	7.26	34.344	0.53	-	-	-	117							
521	6.54	34.372	0.42	-	-	-	106							
605	5.74	-	0.37	-	-	-								

ALEXANDER AGASSIZ; February 23, 1964; 1926 GCT; 27°10'N, 116°33'W; sounding, 1980 fm; wind, 300°, force 4; weather, clear; sea, rough; wire angle, 27°. 120.60

1	16.76	34.035	5.77	0.41	0	0.01	311	0	(16.76)	(34.04)	(5.77)	(24.85)	(311)	(0.00)
10	16.68	34.027	5.74	0.40	1	0.01	310	10	16.68	34.03	5.74	24.87	310	0.03
41	16.64	34.031	5.77	0.36	0	0.00	309	20	16.66	34.03	5.74	24.87	309	0.06
68	16.65	34.030	5.69	0.38	0	0.02	309	30	16.65	34.03	5.76	24.87	309	0.09
86	16.52	34.073	5.44	0.50	1	0.20	303	50	16.64	34.03	5.75	24.87	309	0.15
98	14.06	33.877	3.83	1.24	9	0.05	266	75	16.63	34.04	5.67	24.88	308	0.23
112	13.60	34.036	2.71	1.73	16	0.03	245	100	13.93	33.88	3.63	25.36	263	0.30
129	12.69	34.126	2.18	1.98	20	0.02	221	125	12.83	34.13	2.19	25.77	223	0.37
148	11.34	34.015	2.50	2.01	22	0.02	205	150	11.29	34.02	2.49	25.98	203	0.42
173	10.88	34.097	2.23	2.19	25	0.01	191	200	10.38	34.24	1.72	26.31	172	0.52
196	10.47	34.211	1.83	-	-	-	175	250	9.86	34.37	1.10	26.50	154	0.60
217	10.14	34.320	1.37	-	-	-	162	300	9.33	34.41	0.73	26.62	142	0.68
249	9.87	34.372	1.10	-	-	-	154	400	8.18	34.41	0.46	26.80	125	0.82
284	9.49	34.387	0.88	-	-	-	147	500	7.23	34.42	0.38	26.95	111	0.94
329	9.06	34.441	0.53	-	-	-	136							
391	8.26	34.406	0.48	-	-	-	127							
468	7.62	34.432	0.37	-	-	-	116							
546	6.60	34.401	0.40	-	-	-	105							

ALEXANDER AGASSIZ; February 23, 1964; 1406 GCT; 26°46'N, 117°06.5'W; sounding, 2080 fm; wind, 310°, force 3; weather, clear; sea, moderate; wire angle, 24°. 120.70

0	16.26	33.705	5.85	0.30	1	0.01	324	0	16.26	33.70	5.85	24.71	324	0.00
9	16.28	33.705	5.78	0.29	1	0.00	324	10	16.28	33.71	5.78	24.71	324	0.03
27	16.30	33.720	5.78	0.30	1	0.01	324	20	16.30	33.71	5.78	24.71	324	0.06
36	16.28	33.725	5.73	0.31	1	0.01	323	30	16.30	33.72	5.77	24.72	324	0.10
50	16.00	33.819	5.81	0.36	2	0.01	310	50	16.00	33.82	5.81	24.86	310	0.16
63	15.07	33.685	5.68	0.42	2	0.03	300	75	15.50	33.84	5.61	24.99	298	0.24
85	14.00	33.666	5.23	0.63	4	0.06	280	100	12.93	33.66	5.05	25.39	260	0.31
103	12.80	33.654	5.01	0.77	6	0.01	258	125	11.86	33.77	3.93	25.68	232	0.37
121	12.10	33.747	4.29	1.13	11	0.01	238	150	11.50	33.93	2.92	25.87	214	0.43
139	11.60	33.913	3.05	1.70	18	0.00	217	200	9.13	33.92	3.44	26.27	176	0.53
166	10.98	34.024	2.61	-	-	-	198	250	9.00	34.13	2.35	26.46	158	0.61
197	9.22	33.912	3.50	-	-	-	178	300	7.97	34.16	1.68	26.64	141	0.69
224	9.30	34.097	2.54	-	-	-	165	400	7.37	34.28	0.83	26.82	124	0.83
270	8.30	34.119	2.15	-	-	-	149	500	6.71	34.34	0.43	26.96	110	0.95
320	7.82	34.191	1.44	-	-	-	136							
398	7.38	34.275	0.85	-	-	-	124							
477	6.88	34.327	0.51	-	-	-	114							
556	6.28	34.357	0.38	-	-	-	104							

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OBSERVED							COMPUTED	INTERPOLATED				COMPUTED		
Z	T	S	O_2	PO_4-P	SiO_3-Si	NO_2-N	δ_T	Z	T	S	O_2	σ_t	δ_T	ΔD
m	°C	‰	ml/L	µg at/L	µg at/L	µg at/L	cl/ton	m	°C	‰	ml/L	g/L	cl/ton	dyn m

120.80 ALEXANDER AGASSIZ; February 23, 1964; 0923 GCT; 26°30'N, 117°45'W; sounding, 2090 fm; wind, 310°, force 3; weather, clear; sea, moderate; wire angle, 08°

0	17.14	33.910	5.76	0.31	1	0.00	329	0	17.14	33.91	5.76	24.67	329	0.00
10	17.13	33.905	5.76	0.31	1	0.00	329	10	17.13	33.90	5.76	24.66	329	0.03
30	17.14	33.909	5.89	0.31	1	0.00	329	20	17.14	33.91	5.82	24.67	329	0.07
60	17.12	33.921	5.67	0.31	1	0.00	327	30	17.14	33.91	5.89	24.67	329	0.10
70	17.18	33.973	5.71	0.34	1	0.00	325	50	17.13	33.91	5.80	24.67	328	0.16
84	15.42	33.829	5.31	0.53	3	0.08	297	75	17.00	33.97	5.67	24.74	321	0.25
99	13.65	33.756	4.76	0.82	6	0.02	266	100	13.58	33.76	4.72	25.34	265	0.32
115	12.62	33.758	4.31	1.14	10	0.01	247	125	12.10	33.76	4.17	25.63	237	0.38
140	11.50	33.783	3.93	1.39	14	0.01	225	150	11.31	33.84	3.56	25.84	217	0.44
160	11.13	33.920	3.16	1.76	21	0.00	208	200	10.21	34.13	2.43	26.26	177	0.54
189	10.08	34.050	2.74	-	-	-	181	250	10.00	34.38	1.01	26.49	155	0.63
219	10.24	34.289	1.48	-	-	-	166	300	9.65	34.46	0.67	26.61	144	0.70
248	10.02	34.373	1.06	-	-	-	156	400	8.35	34.42	0.47	26.79	127	0.85
298	9.68	34.459	0.67	-	-	-	144	500	7.17	34.40	0.44	26.94	112	0.97
353	8.88	34.423	0.62	-	-	-	135	600	6.29	34.40	0.38	27.06	101	1.09
437	7.93	34.418	0.37	-	-	-	121							
521	6.93	34.394	0.46	-	-	-	109							
606	6.26	34.401	0.38	-	-	-	100							

120.90 ALEXANDER AGASSIZ; February 23, 1964; 0403 GCT; 26°13'N, 118°27'W; sounding, 2155 fm; wind, 310°, force 4; weather, partly cloudy; sea, moderate; wire angle, 21°.

1	16.62	33.612	5.85	0.28	1	0.00	339	0	(16.62)	(33.61)	(5.85)	(24.56)	(339)	(0.00)
10	16.50	33.596	5.82	0.28	0	0.00	337	10	16.50	33.60	5.82	24.58	337	0.03
43	16.68	33.725	5.84	0.29	1	0.00	332	20	16.50	33.61	5.82	24.59	336	0.07
71	16.84	33.803	5.69	0.32	1	0.00	330	30	16.52	33.63	5.83	24.60	335	0.10
90	14.57	33.736	5.21	0.65	4	0.15	286	50	16.72	33.74	5.81	24.63	332	0.17
103	13.08	33.731	4.44	0.99	8	0.03	257	75	16.00	33.81	5.47	24.85	311	0.25
117	11.80	33.854	3.32	1.57	16	0.02	225	100	13.60	33.73	4.71	25.31	267	0.32
135	11.76	34.154	1.71	2.34	28	0.01	202	125	11.76	34.01	2.47	25.89	212	0.38
153	11.82	34.312	0.98	2.54	30	0.00	191	150	11.82	34.29	1.08	26.09	193	0.43
182	11.86	34.523	0.40	2.84	33	0.00	176	200	11.77	34.58	0.35	26.33	171	0.53
204	11.74	34.593	0.34	-	-	-	169	250	11.34	34.65	0.41	26.46	158	0.61
228	11.54	34.621	0.38	-	-	-	164	300	10.92	34.64	0.41	26.53	151	0.69
260	11.24	34.653	0.42	-	-	-	156	400	9.85	34.59	0.28	26.68	137	0.84
298	10.94	34.644	0.42	-	-	-	151	500	8.40	34.51	0.32	26.85	121	0.98
345	10.52	34.628	0.29	-	-	-	145							
411	9.70	34.579	0.28	-	-	-	136							
493	8.50	34.516	0.31	-	-	-	122							
576	7.41	34.458	0.35	-	-	-	111							

120.100 ALEXANDER AGASSIZ; February 22, 1964; 2225 GCT; 25°55'N, 119°12'W; sounding, 2130 fm; wind, 330°, force 2; weather, cloudy; sea, rough; wire angle, 12°.

0	17.50	33.855	5.71	0.31	2	0.02	341	0	17.50	33.86	5.71	24.54	340	0.00
10	17.30	33.861	5.69	0.29	1	0.01	336	10	17.30	33.86	5.69	24.59	336	0.03
39	17.26	33.870	5.74	0.30	2	0.01	334	20	17.26	33.87	5.71	24.61	334	0.07
64	17.26	33.874	5.75	0.28	2	0.02	334	30	17.26	33.87	5.72	24.61	334	0.10
83	15.38	33.654	5.82	0.32	3	0.02	309	50	17.26	33.87	5.73	24.61	334	0.17
98	14.60	33.622	5.35	0.53	5	0.11	295	75	17.10	33.87	5.82	24.64	331	0.25
112	13.52	33.695	4.93	0.71	6	0.05	268	100	14.33	33.67	5.23	25.11	286	0.33
133	12.16	33.728	4.38	1.10	11	0.02	240	125	12.68	33.71	4.61	25.48	251	0.40
152	11.45	33.833	3.91	1.39	14	0.01	220	150	11.51	33.82	3.97	25.78	222	0.46
176	10.46	33.934	3.30	1.78	21	0.01	196	200	9.84	34.05	2.91	26.26	177	0.56
200	9.84	34.046	2.91	-	-	-	177	250	9.34	34.28	1.60	26.52	152	0.64
225	9.68	34.235	1.83	-	-	-	161	300	8.17	34.20	1.83	26.64	141	0.72
254	9.25	34.278	1.59	-	-	-	151	400	7.20	34.28	0.77	26.85	121	0.86
288	8.32	34.187	1.86	-	-	-	144	500	6.71	34.38	0.41	26.99	107	0.98
337	7.85	34.244	1.29	-	-	-	133							
401	7.19	34.282	0.76	-	-	-	121							
475	6.85	34.378	0.44	-	-	-	109							
554	6.30	34.389	0.39	-	-	-	102							

OBSERVED							COMPUTED	INTERPOLATED				COMPUTED			SIO
Z	T	S	O_2	PO_4-P	SiO_3-Si	NO_2-N	δ_T	Z	T	S	O_2	σ_t	δ_T	ΔD	CCOFI
m	°C	‰	ml/L	µg at/L	µg at/L	µg at/L	cl/ton	m	°C	‰	ml/L	g/L	cl/ton	dyn m	6401
ALEXANDER AGASSIZ; February 22, 1964; 1334 GCT; 25°18'N, 120°26.5'W; sounding, 2115 fm; wind, 040°, force 4; weather, cloudy; sea, very rough; wire angle, 10°.															120.120
0	16.82	33.691	5.78	0.33	0	0.00	337	0	16.82	33.69	5.78	24.57	337	0.00	
10	16.81	33.687	5.81	0.32	1	0.00	337	10	16.81	33.69	5.81	24.57	337	0.03	
44	17.11	33.836	5.74	0.32	1	0.00	333	20	16.86	33.71	5.80	24.58	337	0.07	
74	17.14	33.877	5.67	0.35	1	0.00	331	30	16.96	33.73	5.79	24.57	338	0.10	
93	17.24	33.957	5.71	0.35	2	0.02	327	50	17.12	33.85	5.71	24.62	332	0.17	
108	15.29	33.779	5.40	0.54	4	0.10	298	75	17.15	33.88	5.67	24.64	331	0.25	
123	13.66	33.735	4.88	0.81	6	0.02	268	100	16.10	33.83	5.57	24.85	311	0.33	
142	12.18	33.727	4.36	1.18	10	0.00	241	125	13.49	33.73	4.82	25.33	265	0.41	
163	10.52	33.716	4.27	1.38	14	0.01	213	150	11.19	33.72	4.28	25.77	224	0.47	
192	9.62	33.884	3.52	1.83	23	0.00	186	200	9.91	33.98	3.40	26.19	183	0.57	
216	9.10	33.997	2.98	-	-	-	169	250	8.49	34.10	2.20	26.51	153	0.66	
240	8.62	34.082	2.37	-	-	-	156	300	7.98	34.20	1.53	26.67	138	0.73	
275	8.22	34.152	1.87	-	-	-	145	400	7.09	34.31	0.61	26.88	118	0.87	
315	7.84	34.223	1.32	-	-	-	134	500	6.22	34.36	0.42	27.04	103	0.98	
364	7.46	34.283	0.88	-	-	-	125	600	5.59	34.39	0.37	27.14	93	1.09	
434	6.74	34.325	0.46	-	-	-	112								
518	6.10	34.366	0.42	-	-	-	101								
603	5.57	34.396	0.37	-	-	-	92								
ALEXANDER AGASSIZ; February 24, 1964; 0923 GCT; 27°13.5'N, 114°59.5'W; sounding, 1122 fm; wind, 030°, force 2; weather, clear; sea, slight; wire angle, 11°.															123.42
0	15.69	33.950	5.79	0.18	4	0.07	294	0	15.69	33.95	5.79	25.03	294	0.00	
10	15.66	33.939	5.79	0.19	4	0.07	294	10	15.66	33.94	5.79	25.03	294	0.03	
30	15.45	33.888	5.68	0.22	4	0.10	293	20	15.55	33.91	5.75	25.03	294	0.06	
39	15.38	33.870	5.64	0.24	4	0.11	293	30	15.45	33.89	5.68	25.04	293	0.09	
49	15.17	33.870	5.52	0.27	4	0.14	289	50	15.15	33.87	5.47	25.09	288	0.15	
64	14.84	33.890	4.99	0.38	7	0.20	280	75	13.67	33.99	3.28	25.49	250	0.21	
79	13.58	34.000	3.19	0.70	15	0.06	247	100	12.70	33.99	2.97	25.69	231	0.27	
98	12.74	33.981	2.98	0.71	17	0.03	232	125	11.99	34.10	2.28	25.91	210	0.33	
122	12.04	34.073	2.44	0.89	22	0.02	213	150	11.28	34.20	1.90	26.12	190	0.38	
142	11.70	34.215	1.78	0.98	26	0.02	196	200	9.26	34.16	1.90	26.44	160	0.47	
171	9.63	34.088	2.36	-	-	-	171	250	8.80	34.23	1.51	26.57	148	0.55	
200	9.26	34.162	1.90	-	-	-	160	300	8.36	34.26	1.27	26.66	139	0.62	
230	9.00	34.211	1.64	-	-	-	152	400	7.34	34.33	0.56	26.86	120	0.76	
269	8.62	34.247	1.41	-	-	-	144	500	6.44	34.35	0.48	27.00	106	0.88	
327	8.14	34.266	1.14	-	-	-	135								
400	7.34	34.331	0.56	-	-	-	119								
474	6.67	34.346	0.50	-	-	-	110								
553	5.96	34.363	0.40	-	-	-	99								
ALEXANDER AGASSIZ; February 24, 1964; 1349 GCT; 26°44.5'N, 114°32'W; sounding, 1290 fm; wind, 020°, force 3; weather, clear; sea, moderate; wire angle, 06°.															127.40
0	15.82	33.899	5.82	0.41	3	0.03	300	0	15.82	33.90	5.82	24.96	300	0.00	
10	15.80	33.893	5.78	0.41	3	0.03	300	10	15.80	33.89	5.78	24.96	301	0.03	
30	15.80	33.891	5.78	0.41	3	0.03	300	20	15.80	33.89	5.78	24.96	301	0.06	
40	15.68	33.881	5.69	0.44	3	0.06	299	30	15.80	33.89	5.78	24.96	301	0.09	
55	13.56	33.858	3.89	1.24	11	0.05	257	50	14.00	33.86	4.26	25.33	266	0.15	
70	12.56	33.868	3.45	1.50	14	0.03	237	75	12.28	33.88	3.18	25.69	231	0.21	
95	12.40	34.209	1.82	2.18	24	0.03	209	100	12.10	34.26	1.56	26.02	200	0.26	
115	11.95	34.322	1.43	2.39	28	0.01	193	125	11.90	34.34	1.41	26.12	191	0.31	
134	11.48	34.350	1.31	2.44	29	0.01	182	150	11.24	34.40	1.09	26.28	175	0.36	
155	11.16	34.411	1.05	2.56	31	0.01	172	200	10.12	34.40	1.03	26.48	156	0.44	
185	10.50	34.416	1.07	-	-	-	161	250	9.34	34.39	0.85	26.61	144	0.52	
220	9.71	34.385	0.97	-	-	-	150	300	8.42	34.32	0.90	26.70	135	0.59	
250	9.34	34.394	0.85	-	-	-	144	400	7.42	34.34	0.58	26.86	120	0.73	
300	8.42	34.325	0.90	-	-	-	135	500	6.63	34.36	0.45	26.99	108	0.85	
354	7.74	34.322	0.77	-	-	-	126	600	5.80	34.38	0.37	27.11	96	0.96	
439	7.14	34.358	0.45	-	-	-	115								
523	6.42	34.366	0.43	-	-	-	105								
608	5.76	34.385	0.36	-	-	-	95								

SIO

CCOFI 6401

	OBSERVED							COMPUTED	INTERPOLATED				COMPUTED		
	Z m	T °C	S ‰	O_2 ml/L	PO_4-P µg at/L	SiO_3-Si µg at/L	NO_2-N µg at/L	δ_T cl/ton	Z m	T °C	S ‰	O_2 ml/L	σ_t g/L	δ_T cl/ton	ΔD dyn m
130.30	ALEXANDER AGASSIZ; February 25, 1964; 0557 GCT; 26°29'N, 113°30'W; sounding, 43 fm; wind, 310°, force 4; weather, partly cloudy; sea, moderate; wire angle, 06°.														
	0	17.52	34.499	5.58	0.46	3	0.06	294	0	17.52	34.50	5.58	25.03	294	0.00
	10	17.54	34.498	5.63	0.51	4	0.06	295	10	17.54	34.50	5.63	25.02	295	0.03
	20	17.50	34.499	5.65	0.47	3	0.06	294	20	17.50	34.50	5.65	25.03	294	0.06
	30	17.36	34.472	5.41	0.54	3	0.12	293	30	17.36	34.47	5.41	25.04	293	0.09
	50	14.52	34.212	2.57	1.64	17	0.08	250	50	14.52	34.21	2.57	25.49	250	0.14
	75	14.05	34.177	1.91	2.19	29	0.16	243	75	14.05	34.18	1.91	25.56	243	0.21
130.40	ALEXANDER AGASSIZ; February 25, 1964; 1050 GCT; 26°09'N, 114°10'W; sounding, 1390 fm; wind, 330°, force 3; weather, partly cloudy; sea, moderate; wire angle, 05°.														
	0	17.12	34.189	5.89	0.34	0	0.01	308	0	17.12	34.19	5.89	24.88	308	0.00
	10	17.10	34.183	5.87	0.34	0	0.01	308	10	17.10	34.18	5.87	24.88	308	0.03
	30	17.08	34.182	5.87	0.41	0	0.01	307	20	17.09	34.18	5.87	24.88	308	0.06
	60	15.54	33.973	4.88	0.72	5	0.15	289	30	17.08	34.18	5.87	24.89	308	0.09
	70	13.48	33.843	3.79	1.30	11	0.06	257	50	16.91	34.16	5.80	24.91	305	0.15
	85	12.62	33.911	3.15	1.61	15	0.03	235	75	13.00	33.86	3.46	25.53	246	0.22
	100	12.08	33.972	2.80	1.82	18	0.02	221	100	12.08	33.97	2.80	25.79	221	0.28
	115	11.54	34.073	2.34	2.06	24	0.01	204	125	11.50	34.09	2.30	26.00	202	0.34
	139	11.04	34.148	2.03	2.21	26	0.00	190	150	10.80	34.19	1.97	26.20	183	0.38
	159	10.62	34.223	1.82	2.36	30	0.00	177	200	10.13	34.38	1.19	26.47	157	0.47
	189	10.24	34.329	1.40	-	-	-	163	250	9.87	34.49	0.60	26.60	145	0.55
	219	10.00	34.439	0.88	-	-	-	151	300	9.21	34.46	0.61	26.68	137	0.62
	249	9.88	34.488	0.60	-	-	-	145	400	8.05	34.43	0.38	26.84	122	0.76
	299	9.22	34.456	0.63	-	-	-	137	500	6.93	34.42	0.43	26.99	107	0.88
	354	8.60	34.442	0.54	-	-	-	129	600	6.01	34.43	0.38	27.12	95	0.99
	439	7.57	34.416	0.37	-	-	-	116							
	524	6.71	34.420	0.46	-	-	-	105							
	609	5.92	34.427	0.37	-	-	-	94							
130.50	ALEXANDER AGASSIZ; February 25, 1964; 1800 GCT; 25°49'N, 114°47'W; sounding, 1900 fm; wind, 360°, force 3; weather, clear; sea, moderate; wire angle, 07°.														
	0	17.02	34.046	5.70	0.31	2	0.01	316	0	17.02	34.05	5.70	24.80	316	0.00
	10	17.08	34.097	5.64	0.31	1	0.01	314	10	17.08	34.10	5.64	24.82	313	0.03
	30	17.06	34.098	5.74	0.33	1	0.00	313	20	17.07	34.10	5.69	24.83	313	0.06
	55	17.09	34.102	5.60	0.35	1	0.01	313	30	17.06	34.10	5.74	24.83	313	0.09
	65	16.20	34.016	5.25	0.53	3	0.10	300	50	17.08	34.10	5.71	24.82	313	0.16
	75	13.99	33.776	4.40	0.96	8	0.05	272	75	13.99	33.78	4.40	25.27	271	0.23
	89	12.85	33.741	4.38	1.10	9	0.03	252	100	12.58	33.78	4.15	25.55	244	0.30
	104	12.20	33.799	3.83	1.35	12	0.02	236	125	11.48	33.95	2.74	25.89	212	0.35
	129	11.47	33.992	2.54	1.95	21	0.00	209	150	11.94	34.39	1.29	26.15	188	0.40
	148	11.96	34.387	1.29	2.48	28	0.00	188	200	11.05	34.51	0.77	26.40	163	0.49
	173	11.34	34.398	1.34	-	-	-	176	250	10.38	34.54	0.55	26.55	150	0.57
	203	11.02	34.516	0.74	-	-	-	162	300	9.52	34.52	0.43	26.68	137	0.65
	233	10.62	34.536	0.62	-	-	-	154	400	8.13	34.45		26.84	122	0.79
	272	10.03	34.539	0.45	-	-	-	144	500	7.10	34.45		26.99	107	0.91
	332	9.01	34.492	0.43	-	-	-	131							
	406	8.07	34.450	-	-	-	-	121							
	481	7.28	34.450	-	-	-	-	110							
	561	6.54	34.441	0.27	-	-	-	101							

OBSERVED							COMPUTED	INTERPOLATED				COMPUTED		
Z	T	S	O_2	PO_4-P	SiO_3-Si	NO_2-N	δ_T	Z	T	S	O_2	σ_t	δ_T	ΔD
m	°C	‰	ml/L	µg at/L	µg at/L	µg at/L	cl/ton	m	°C	‰	ml/L	g/L	cl/ton	dyn m
ALEXANDER AGASSIZ; February 25, 1964; 2235 GCT; 25°29'N, 115°24'W; sounding, 2062 fm; wind, 330°, force 3; weather, cloudy; sea, moderate; wire angle, 08°.														130.60
0	18.24	34.155	5.57	0.31	1	0.00	336	0	18.24	34.16	5.57	24.59	336	0.00
10	17.80	34.146	5.59	0.28	1	0.00	326	10	17.80	34.15	5.59	24.69	326	0.03
30	17.66	34.143	5.67	0.32	1	0.00	323	20	17.74	34.15	5.63	24.70	325	0.07
40	17.52	34.148	5.60	0.39	1	0.00	320	30	17.66	34.14	5.67	24.72	324	0.10
55	17.28	34.180	5.74	0.38	1	0.01	312	50	17.35	34.17	5.71	24.81	314	0.16
70	16.61	34.068	5.40	0.50	2	0.08	305	75	15.95	33.97	5.17	24.99	298	0.24
94	13.71	33.763	4.64	0.87	6	0.06	267	100	13.27	33.76	4.53	25.40	259	0.31
114	12.02	33.754	4.13	1.22	12	0.02	236	125	11.29	33.83	3.68	25.83	217	0.37
133	11.26	33.868	3.57	1.61	16	0.01	214	150	10.92	34.04	2.60	26.06	196	0.42
154	10.84	34.075	2.39	2.18	24	0.01	192	200	10.42	34.35	1.22	26.39	164	0.51
183	10.63	34.302	1.48	-	-	-	171	250	10.08	34.47	0.68	26.54	150	0.59
217	10.25	34.394	1.00	-	-	-	158	300	9.50	34.47	0.58	26.64	141	0.67
247	10.10	34.470	0.70	-	-	-	150	400	7.98	34.44	0.37	26.86	120	0.81
296	9.56	34.474	0.59	-	-	-	141	500	6.80	34.41	0.33	27.00	106	0.93
350	8.75	34.452	0.49	-	-	-	130	600	6.17	34.45	0.31	27.12	96	1.04
433	7.54	34.432	0.32	-	-	-	115							
518	6.64	34.412	0.33	-	-	-	104							
602	6.16	34.449	0.31	-	-	-	95							
ALEXANDER AGASSIZ; February 26, 1964; 0200 GCT; 25°09'N, 116°02'W; sounding, 2073 fm; wind, 330°, force 3; weather, partly cloudy; sea, slight; wire angle, 03°.														130.70
0	18.18	34.169	5.76	0.34	1	0.01	334	0	18.18	34.17	5.76	24.61	334	0.00
10	17.98	34.151	5.70	0.29	1	0.00	330	10	17.98	34.15	5.70	24.65	330	0.03
45	17.88	34.164	5.76	0.32	1	0.00	327	20	17.95	34.15	5.71	24.65	330	0.07
75	16.82	34.017	5.45	0.47	2	0.06	314	30	17.92	34.16	5.72	24.67	328	0.10
95	13.38	33.796	4.40	1.06	8	0.05	258	50	17.87	34.16	5.75	24.68	327	0.17
109	12.51	33.815	4.05	1.25	12	0.03	240	75	16.82	34.02	5.45	24.82	313	0.25
124	11.71	33.921	3.35	1.64	16	0.01	218	100	13.08	33.80	4.29	25.47	252	0.32
144	11.68	34.159	2.17	2.09	23	0.00	200	125	11.70	33.93	3.33	25.83	217	0.38
164	11.22	34.317	1.58	2.45	29	0.00	180	150	11.60	34.21	1.90	26.07	195	0.43
194	10.64	34.388	1.43	2.59	33	0.00	165	200	10.60	34.41	1.28	26.41	163	0.52
219	10.54	34.455	0.83	-	-	-	159	250	10.39	34.52	0.63	26.53	151	0.60
244	10.46	34.519	0.66	-	-	-	153	300	9.48	34.48	0.59	26.65	140	0.68
279	9.84	34.491	0.59	-	-	-	144	400	8.69	34.48	0.38	26.78	127	0.82
319	9.26	34.475	0.59	-	-	-	137	500	7.47	34.47	0.35	26.96	111	0.94
369	9.02	34.481	0.48	-	-	-	132	600	6.53	34.46	0.37	27.08	99	1.06
439	8.20	34.481	0.31	-	-	-	120							
523	7.21	34.471	0.37	-	-	-	107							
608	6.46	34.458	0.37	-	-	-	99							
ALEXANDER AGASSIZ; February 26, 1964; 0846 GCT; 24°49'N, 116°39.5'W; sounding, 2123 fm; wind, 320°, force 3; weather, partly cloudy; sea, moderate; wire angle, 12°.														130.80
0	17.21	33.851	5.84	0.28		0.00	334	0	17.21	33.85	5.84	24.60	335	0.00
10	17.18	33.839	5.97	0.28		0.00	335	10	17.18	33.84	5.97	24.60	335	0.03
40	17.21	34.039	5.79	0.36		0.00	321	20	17.29	33.93	5.92	24.64	330	0.07
64	17.33	34.131	5.74	0.36		0.00	317	30	17.23	34.00	5.83	24.71	324	0.10
84	16.90	34.144	5.25	0.58		0.17	306	50	17.25	34.08	5.74	24.77	319	0.16
98	14.26	33.829	4.80	0.82		0.04	273	75	17.33	34.13	5.73	24.79	317	0.24
113	12.64	33.809	4.22	1.11		0.01	243	100	13.75	33.81	4.68	25.34	264	0.32
133	11.86	33.923	3.25	1.63		0.00	221	125	12.19	33.89	3.52	25.71	229	0.38
152	10.45	33.897	3.47	1.78		0.01	198	150	10.50	33.90	3.47	26.03	199	0.43
177	10.28	34.070	2.64	2.09		0.00	183	200	10.27	34.25	1.74	26.34	169	0.53
201	10.27	34.262	1.72	-		-	168	250	9.64	34.38	1.07	26.55	149	0.61
226	10.20	34.397	1.11	-		-	157	300	8.99	34.41	0.76	26.68	137	0.68
255	9.57	34.378	1.07	-		-	149	400	7.85	34.41	0.49	26.85	121	0.82
290	9.11	34.401	0.81	-		-	140	500	6.85	34.43	0.40	27.01	106	0.94
339	8.52	34.420	0.63	-		-	129							
403	7.81	34.411	0.48	-		-	120							
477	7.05	34.427	0.42	-		-	108							
556	6.41	34.427	0.38	-		-	100							

SIO

CCOFI 6401

OBSERVED							COMPUTED	INTERPOLATED				COMPUTED		
Z	T	S	O_2	PO_4-P	SiO_3-Si	NO_2-N	δ_T	Z	T	S	O_2	σ_t	δ_T	ΔD
m	°C	‰	ml/L	µg at/L	µg at/L	µg at/L	cl/ton	m	°C	‰	ml/L	g/L	cl/ton	dyn m

130.90 ALEXANDER AGASSIZ; February 26, 1964; 1315 GCT; 24°30'N, 117°15'W; sounding, 2050 fm; wind, 300°, force 3; weather, cloudy; sea, moderate; wire angle, 13°.

0	17.38	33.887	5.62	0.27	3	0.00	336	0	17.38	33.89	5.62	24.59	335	0.00
10	17.36	33.879	5.69	0.28	0	0.00	336	10	17.36	33.88	5.69	24.59	336	0.03
29	17.00	33.883	5.71	0.28	0	0.00	327	20	17.10	33.88	5.70	24.65	330	0.07
58	17.25	34.114	5.59	0.38	0	0.00	316	30	17.00	33.88	5.70	24.68	328	0.10
68	16.28	33.972	5.42	0.46	1	0.11	305	50	17.40	34.10	5.64	24.75	321	0.16
82	14.38	33.748	5.30	0.57	3	0.06	281	75	15.40	33.85	5.37	25.02	295	0.24
96	13.24	33.689	4.99	0.73	4	0.06	263	100	13.10	33.71	4.91	25.39	259	0.31
110	12.80	33.821	4.62	0.93	6	0.00	245	125	11.70	33.82	4.09	25.75	225	0.37
134	11.41	33.823	3.91	1.34	13	0.00	220	150	10.85	33.89	3.37	25.96	206	0.43
153	10.80	33.917	3.25	1.72	18	0.00	203	200	9.90	34.13	2.37	26.31	172	0.52
181	10.05	34.037	2.78	-	-	-	181	250	9.12	34.26	1.63	26.54	150	0.61
210	9.58	34.169	2.08	-	-	-	164	300	8.71	34.34	0.98	26.67	138	0.68
238	9.19	34.235	1.79	-	-	-	153	400	7.69	34.38	0.52	26.85	121	0.82
286	8.85	34.320	1.17	-	-	-	142	500	6.76	34.40	0.34	27.00	107	0.94
338	8.33	34.367	0.73	-	-	-	131	600	(6.05)	(34.44)		(27.13)	(95)	(1.05)
419	7.50	34.381	0.49	-	-	-	118							
501	6.75	34.401	0.33	-	-	-	106							
584	6.14	34.427	0.27	-	-	-	97							

130.100 ALEXANDER AGASSIZ; February 26, 1964; 1755 GCT; 24°09.5'N, 117°55'W; sounding, 2090 fm; wind, 030°, force 3; weather, cloudy; sea, moderate; wire angle, 17°.

0	18.32	34.089	5.62	0.23	0	0.00	343	0	18.32	34.09	5.62	24.52	343	0.00
10	18.31	34.080	5.54	0.21	0	0.00	343	10	18.31	34.08	5.54	24.51	343	0.03
43	18.30	34.080	5.56	0.22	2	0.00	343	20	18.31	34.08	5.54	24.51	343	0.07
71	18.18	34.053	5.52	0.26	1	0.00	342	30	18.30	34.08	5.55	24.51	343	0.10
90	17.79	33.951	5.67	0.26	1	0.00	340	50	18.29	34.08	5.55	24.52	343	0.17
104	16.36	33.853	5.63	0.32	1	0.00	315	75	18.12	34.04	5.52	24.53	342	0.26
118	15.16	33.883	5.20	0.48	3	0.06	288	100	17.70	33.94	5.67	24.55	339	0.34
137	13.35	33.819	4.55	0.92	8	0.00	256	125	14.90	33.88	5.10	25.15	282	0.42
156	12.10	33.792	4.33	1.08	11	0.01	235	150	12.47	33.80	4.39	25.59	241	0.49
184	10.69	33.878	3.59	1.56	19	0.00	204	200	10.45	33.98	2.99	26.10	192	0.60
208	10.42	34.028	2.78	-	-	-	188	250	9.81	34.24	1.70	26.41	163	0.69
231	10.01	34.173	2.06	-	-	-	171	300	9.22	34.32	1.36	26.57	147	0.77
264	9.68	34.281	1.53	-	-	-	157	400	8.18	34.39	0.56	26.79	127	0.91
302	9.20	34.321	1.34	-	-	-	147	500	7.28	34.44	0.32	26.96	111	1.04
350	8.80	34.388	0.88	-	-	-	136							
415	8.02	34.392	0.51	-	-	-	124							
496	7.32	34.441	0.34	-	-	-	111							
578	6.46	34.423	0.28	-	-	-	101							

130.120 ALEXANDER AGASSIZ; February 27, 1964; 0408 GCT; 23°29.5'N, 119°10.5'W; sounding, 2150 fm; wind, 030°, force 3; weather, partly cloudy; sea, moderate; wire angle, 17°.

0	18.21	34.104	5.80	0.31	0	0.01	339	0	18.21	34.10	5.80	24.55	339	0.00
9	18.20	34.103	5.79	0.30	1	0.00	339	10	18.20	34.10	5.79	24.55	339	0.03
28	18.18	34.117	5.77	0.30	1	0.00	337	20	18.19	34.11	5.78	24.56	338	0.07
56	18.14	34.117	5.64	0.32	0	0.00	336	30	18.18	34.12	5.72	24.57	337	0.10
66	17.97	34.094	5.79	0.31	1	0.00	334	50	18.16	34.12	5.66	24.58	337	0.17
80	16.98	33.979	5.72	0.39	1	0.01	320	75	17.57	34.04	5.78	24.66	329	0.25
94	15.94	33.899	5.50	0.43	2	0.13	303	100	15.00	33.84	5.37	25.10	287	0.33
108	14.17	33.801	5.17	0.69	3	0.02	273	125	13.21	33.83	4.01	25.46	252	0.40
131	12.90	33.842	3.77	1.39	11	0.01	246	150	11.73	33.87	3.72	25.78	222	0.46
151	11.69	33.871	3.71	1.48	13	0.01	221	200	10.90	34.20	2.27	26.19	183	0.56
178	10.99	34.048	2.80	-	-	-	196	250	10.00	34.30	1.70	26.43	161	0.65
207	10.62	34.235	1.97	-	-	-	176	300	9.41	34.41	1.08	26.61	144	0.73
235	10.24	34.267	1.84	-	-	-	168	400	8.47	34.44	0.56	26.78	127	0.87
281	9.58	34.383	1.26	-	-	-	148	500	7.07	34.42	0.49	26.97	109	1.00
334	9.16	34.441	0.83	-	-	-	137	600	(6.50)	(34.45)		(27.07)	(100)	(1.11)
416	8.25	34.432	0.53	-	-	-	125							
499	7.08	34.421	0.49	-	-	-	109							
582	6.54	34.445	0.47	-	-	-	100							

OBSERVED							COMPUTED	INTERPOLATED				COMPUTED		
Z m	T °C	S ‰	O_2 ml/L	PO_4-P µg at/L	SiO_3-Si µg at/L	NO_2-N µg at/L	δ_T cl/ton	Z m	T °C	S ‰	O_2 ml/L	σ_t g/L	δ_T cl/ton	ΔD dyn m
ALEXANDER AGASSIZ; February 29, 1964; 0405 GCT; 25°34'N, 112°18.5'W; sounding, 40 fm; wind, 280°, force 5; weather, cloudy; sea, rough; wire angle, 15°.														137.23
0	17.86	34.525	5.74	0.41	2	0.03	300	0	17.86	34.52	5.74	24.96	301	0.00
10	17.81	34.530	5.79	0.46	2	0.02	299	10	17.81	34.53	5.79	24.98	299	0.03
20	17.82	34.526	5.56	0.45	2	0.02	299	20	17.82	34.53	5.56	24.98	299	0.06
29	17.82	34.526	5.53	0.46	2	0.03	299	30	17.82	34.53	5.52	24.98	299	0.09
49	17.52	34.483	4.82	0.69	6	0.35	295							
ALEXANDER AGASSIZ; February 28, 1964; 2352 GCT; 25°19.5'N, 112°45'W; sounding, 190 fm; wind, 280°, force 4; weather, cloudy; sea, rough; wire angle, 23°.														137.30
0	18.26	34.501	5.58	0.31	3	0.03	311	0	18.26	34.50	5.58	24.84	311	0.00
9	18.26	34.497	5.69	0.27	2	0.02	312	10	18.26	34.50	5.68	24.84	311	0.03
29	18.26	34.502	5.47	0.25	3	0.03	311	20	18.26	34.50	5.57	24.84	311	0.06
43	18.20	34.508	-	0.30	2	0.10	309	30	18.26	34.50	5.46	24.84	311	0.09
57	17.60	34.429	4.79	0.60	5	0.30	301	50	18.17	34.51	5.17	24.87	309	0.16
71	15.30	34.115	3.77	1.19	11	0.06	273	75	14.80	34.11	3.41	25.35	263	0.23
85	14.19	34.104	2.99	1.55	14	0.03	252	100	13.50	34.16	2.46	25.66	234	0.29
104	13.30	34.184	2.30	1.97	20	0.02	228	125	12.51	34.34	1.42	26.00	202	0.35
127	12.46	34.357	1.37	2.37	26	0.02	200	150	12.02	34.48	0.83	26.20	183	0.39
155	11.94	34.506	0.74	2.50	32	0.01	179	200	11.59	34.62	0.35	26.39	164	0.48
188	11.66	34.604	0.45	-	-	-	167	250	11.06	34.63	0.23	26.50	154	0.57
222	11.45	34.642	0.24	-	-	-	160	300	10.78	34.61	0.20	26.53	151	0.65
259	10.96	34.628	0.22	-	-	-	153							
301	10.78	34.615	0.20	-	-	-	151							
339	10.61	34.604	0.21	-	-	-	149							
ALEXANDER AGASSIZ; February 28, 1964; 1822 GCT; 25°00'N, 113°23.5'W; sounding, 1660 fm; wind, 300°, force 5; weather, cloudy; sea, moderate; wire angle, 25°.														137.40
0	17.94	34.391	5.70	0.38	0	0.00	312	0	17.94	34.39	5.70	24.84	312	0.00
8	17.90	34.376	5.86	0.35	0	0.00	312	10	17.90	34.38	5.84	24.84	312	0.03
27	17.90	34.382	5.67	0.37	0	0.00	312	20	17.90	34.38	5.74	24.84	312	0.06
54	18.02	34.427	5.64	0.38	0	0.00	311	30	17.92	34.39	5.67	24.84	312	0.09
63	18.00	34.427	5.66	0.40	0	0.00	311	50	18.00	34.42	5.65	24.85	311	0.16
76	14.71	34.074	3.21	1.45	11	0.02	264	75	15.50	34.15	3.77	25.23	275	0.23
89	13.86	34.057	2.81	1.65	14	0.03	248	100	12.90	34.03	2.68	25.68	232	0.29
101	12.79	34.024	2.67	1.81	16	0.02	230	125	11.97	34.08	2.42	25.90	211	0.35
124	11.98	34.067	2.48	1.93	20	0.02	212	150	11.72	34.31	1.53	26.13	190	0.40
141	11.82	34.251	1.72	2.31	24	0.00	196	200	11.05	34.48	0.86	26.38	165	0.49
168	11.47	34.387	1.25	-	-	-	180	250	10.67	34.59	0.47	26.53	151	0.57
194	11.12	34.468	0.90	-	-	-	167	300	9.43	34.46	0.61	26.65	140	0.65
221	10.87	34.559	0.64	-	-	-	156	400	8.34	34.44	0.46	26.80	125	0.79
264	10.52	34.593	0.42	-	-	-	148	500	7.06	34.45	0.33	27.00	107	0.91
314	9.14	34.441	0.65	-	-	-	137							
389	8.44	34.439	0.49	-	-	-	127							
465	7.47	34.456	0.36	-	-	-	112							
543	6.64	34.441	0.31	-	-	-	102							

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OBSERVED							COMPUTED	INTERPOLATED				COMPUTED		
Z	T	S	O_2	PO_4-P	SiO_3-Si	NO_2-N	δ_T	Z	T	S	O_2	σ_t	δ_T	ΔD
m	°C	‰	ml/L	µg at/L	µg at/L	µg at/L	cl/ton	m	°C	‰	ml/L	g/L	cl/ton	dyn m

137.50 ALEXANDER AGASSIZ; February 28, 1964; 1252 GCT; 24°37'N, 114°04'W; sounding, 2080 fm; wind, 320°, force 4; weather, cloudy; sea, moderate; wire angle, 28°.

0	18.29	34.359	5.67	0.37	1	0.01	322	0	18.29	34.36	5.67	24.73	322	0.00
9	18.28	34.359	5.80	0.35	1	0.00	322	10	18.28	34.36	5.81	24.73	322	0.03
26	18.26	34.356	5.83	0.35	1	0.00	322	20	18.27	34.36	5.82	24.74	322	0.06
51	18.02	34.299	5.66	0.35	1	0.00	320	30	18.23	34.35	5.81	24.74	322	0.10
60	17.04	34.218	5.25	0.51	3	0.14	304	50	18.03	34.30	5.67	24.75	321	0.16
72	14.06	33.780	4.67	0.92	7	0.08	273	75	13.60	33.80	4.27	25.36	262	0.23
85	13.17	33.873	3.73	1.35	11	0.04	249	100	12.20	33.99	2.81	25.79	222	0.30
97	12.42	33.968	3.01	1.74	17	0.02	227	125	11.79	34.08	2.46	25.93	208	0.35
118	12.04	34.035	2.63	1.94	20	0.01	216	150	11.31	34.23	1.90	26.14	188	0.40
135	11.42	34.144	2.17	2.14	24	0.00	197	200	10.84	34.48	0.90	26.42	162	0.49
159	11.24	34.275	1.71	-	-	-	184	250	10.35	34.55	0.45	26.56	148	0.57
183	10.94	34.418	1.07	-	-	-	168	300	9.56	34.54	0.40	26.69	136	0.64
209	10.79	34.500	0.81	-	-	-	159	400	8.24	34.48	0.37	26.85	121	0.78
249	10.36	34.550	0.45	-	-	-	149	500	7.24	34.46	0.30	26.98	108	0.90
295	9.64	34.544	0.40	-	-	-	137							
367	8.56	34.472	0.39	-	-	-	126							
441	7.89	34.478	0.34	-	-	-	116							
518	7.06	34.459	0.29	-	-	-	106							

137.60 ALEXANDER AGASSIZ; February 28, 1964; 0739 GCT; 24°18'N, 114°40'W; sounding, 2000 fm; wind, 330°, force 3; weather, overcast; sea, moderate; wire angle, 09°.

0	18.61	34.389	5.54	0.29	3	0.01	328	0	18.61	34.39	5.54	24.67	328	0.00
10	18.60	34.387	5.52	0.27	2	0.01	328	10	18.60	34.39	5.52	24.68	328	0.03
30	18.62	34.385	5.54	0.30	2	0.00	328	20	18.61	34.38	5.53	24.67	328	0.07
59	18.62	34.383	5.38	0.32	3	0.00	329	30	18.62	34.38	5.54	24.66	329	0.10
69	17.97	34.247	5.51	0.38	3	0.03	323	50	18.62	34.38	5.43	24.66	329	0.16
84	15.26	33.901	4.49	0.88	7	0.23	288	75	16.40	34.02	5.06	24.92	304	0.24
99	13.48	33.894	3.46	1.34	12	0.04	253	100	13.40	33.90	3.41	25.48	251	0.31
114	12.60	33.934	3.13	1.59	15	0.02	233	125	12.50	33.96	3.09	25.71	230	0.37
138	11.34	33.988	2.81	1.82	21	0.01	207	150	11.09	34.09	2.37	26.07	195	0.43
158	10.95	34.148	2.12	2.14	27	0.01	188	200	10.39	34.27	1.59	26.34	170	0.52
189	10.50	34.238	1.70	-	-	-	174	250	10.03	34.47	0.61	26.55	149	0.60
219	10.24	34.343	1.34	-	-	-	162	300	9.37	34.46	0.57	26.66	139	0.68
248	10.05	34.472	0.63	-	-	-	149	400	8.00	34.40	0.50	26.82	123	0.82
297	9.42	34.461	0.56	-	-	-	140	500	7.27	34.45	0.34	26.97	110	0.94
351	8.60	34.418	0.83	-	-	-	131	600	6.39	34.44	0.34	27.08	99	1.05
436	7.68	34.404	0.34	-	-	-	119							
520	7.13	34.460	0.34	-	-	-	107							
605	6.35	34.436	0.34	-	-	-	99							

137.70 ALEXANDER AGASSIZ; February 28, 1964; 0243 GCT; 23°58'N, 115°17.5'W; sounding, 2000 fm; wind, 300°, force 4; weather, overcast; sea, moderate; wire angle, 16°.

0	18.87	34.231	5.54	0.32	1	0.02	346	0	18.87	34.23	5.54	24.49	346	0.00
9	18.86	34.229	5.63	0.32	2	0.02	345	10	18.86	34.23	5.62	24.49	345	0.03
28	18.86	34.24	5.54	0.30	2	0.01	345	20	18.86	34.22	5.58	24.48	346	0.07
57	18.86	34.227	5.46	0.29	2	0.01	346	30	18.86	34.22	5.52	24.48	346	0.10
66	18.66	34.193	5.49	0.30	2	0.01	343	50	18.86	34.23	5.47	24.49	345	0.17
80	15.82	33.790	5.40	0.49	4	0.04	308	75	16.00	33.80	5.42	24.85	311	0.26
95	14.37	33.767	4.64	0.89	7	0.08	280	100	13.77	33.77	4.51	25.30	268	0.33
109	12.93	33.785	4.38	1.15	11	0.03	250	125	11.80	33.86	3.57	25.76	224	0.39
133	11.38	33.892	3.15	1.66	20	0.02	214	150	11.15	34.06	2.47	26.04	198	0.44
153	11.14	34.103	2.32	2.10	25	0.01	195	200	10.89	34.43	1.05	26.37	166	0.54
181	10.86	34.283	1.68	-	-	-	177	250	10.52	34.53	0.62	26.51	153	0.62
210	10.90	34.492	0.87	-	-	-	162	300	9.47	34.45	0.67	26.63	142	0.70
238	10.76	34.548	0.60	-	-	-	155	400	8.31	34.45	0.56	26.82	124	0.84
286	9.66	34.444	0.73	-	-	-	145	500	7.23	34.42	0.29	26.95	111	0.96
338	9.04	34.440	0.51	-	-	-	136	600	(6.31)	(34.44)		(27.09)	(98)	(1.07)
419	8.08	34.472	0.56	-	-	-	119							
500	7.23	34.424	0.29	-	-	-	111							
582	6.48	34.439	0.39	-	-	-	100							

OBSERVED							COMPUTED	INTERPOLATED				COMPUTED		
Z	T	S	O_2	PO_4-P	SiO_3-Si	NO_2-N	δ_T	Z	T	S	O_2	σ_t	δ_T	ΔD
m	°C	‰	ml/L	μg at/L	μg at/L	μg at/L	cl/ton	m	°C	‰	ml/L	g/L	cl/ton	dyn m

ALEXANDER AGASSIZ; February 27, 1964; 2202 GCT; 23°38'N, 115°55'W; sounding, 2095 fm; wind, 340°, force 4; weather, drizzle; sea, rough; wire angle, 12°. 137.80

0	19.47	34.311	5.49	0.25	1	0.00	354	0	19.47	34.31	5.49	24.39	354	0.00
9	19.46	34.316	5.49	0.26	1	0.00	354	10	19.46	34.31	5.49	24.40	354	0.04
44	19.46	34.312	5.49	0.28	1	0.00	354	20	19.46	34.31	5.49	24.40	354	0.07
73	19.46	34.309	5.43	0.28	0	0.00	354	30	19.46	34.31	5.49	24.40	354	0.11
93	15.96	33.843	5.68	0.42	2	0.00	307	50	19.46	34.31	5.48	24.40	354	0.18
107	14.26	33.825	4.71	0.80	5	0.00	273	75	19.46	34.31	5.43	24.40	354	0.27
122	13.43	33.844	3.86	1.23	9	0.00	256	100	15.25	33.82	5.47	25.03	294	0.35
142	12.76	33.994	2.84	1.69	16	0.00	232	125	13.36	33.85	3.78	25.45	254	0.42
161	11.58	33.963	2.95	1.78	18	0.00	213	150	12.00	33.97	2.92	25.81	220	0.48
192	11.07	34.329	1.68	2.45	28	0.00	177	200	10.97	34.37	1.50	26.31	172	0.58
215	10.58	34.395	1.29	-	-	-	164	250	10.09	34.46	0.88	26.53	151	0.66
240	10.20	34.434	1.05	-	-	-	155	300	9.56	34.50	0.61	26.66	139	0.74
274	9.90	34.504	0.66	-	-	-	144	400	8.32	34.44	0.49	26.81	125	0.88
314	9.40	34.497	0.60	-	-	-	137	500	7.13	34.41	0.48	26.96	111	1.00
363	8.81	34.481	0.55	-	-	-	129	600	6.58	34.46	0.36	27.07	100	1.11
432	7.88	34.410	0.44	-	-	-	121							
517	6.98	34.416	0.49	-	-	-	108							
601	6.58	34.465	0.35	-	-	-	99							

ALEXANDER AGASSIZ; March 1-February 29, 1964; 0031, 2150 GCT; 34°32'N, 113°20.5'W; sounding, 1915 fm; wind, 310°, force 4; weather, cloudy; sea, rough; wire angle, 25°, 46°. 139.43

0	18.68	34.472	5.53	0.46	3	0.01	323	0	18.68	34.47	5.53	24.72	324	0.00
10	18.67	34.461	5.53	0.40	3	0.01	324	10	18.67	34.46	5.53	24.71	324	0.03
29	18.70	34.461	5.33	0.37	3	0.01	325	20	18.68	34.46	5.40	24.71	324	0.06
46	18.70	34.463	5.44	0.40	3	0.00	325	30	18.70	34.46	5.34	24.70	325	0.10
70	18.67	34.459	5.51	0.37	2	0.00	324	50	18.70	34.46	5.45	24.70	325	0.16
92	14.18	33.878	4.05	1.14	9	0.06	268	75	18.50	34.43	5.47	24.73	322	0.24
115	12.84	34.082	2.44	1.09	18	0.02	227	100	13.63	33.93	3.48	25.46	253	0.32
137	11.88	34.319	1.51	2.38	28	0.01	192	125	12.28	34.19	1.98	25.93	209	0.38
170	11.76	34.606	0.49	2.77	33	0.00	169	150	11.81	34.46	0.94	26.23	180	0.42
230	11.11	34.617	0.46	2.90	36	0.01	156	200	11.50	34.62	0.46	26.41	163	0.51
297	9.86	34.535	0.46	3.02	41	-	142	250	10.74	34.60	0.46	26.53	151	0.59
366	9.04	34.498	0.40	3.08	46	-	131	300	9.81	34.53	0.46	26.64	141	0.67
458	7.75	34.474	0.30	3.25	56	-	114	400	8.59	34.49	0.34	26.80	125	0.81
550	6.64	34.441	0.36	3.41	66	-	102	500	7.21	34.46	0.32	26.99	108	0.93
737	5.24	34.445	0.41	3.44	89	-	85	600	6.17	34.44	0.38	27.11	96	1.04
924	4.44	34.502	0.47	3.46	99	-	72	700	5.43	34.44	0.40	27.20	87	1.14
1017	4.14	34.519	0.62	3.45	108	-	68	800	4.95	34.46	0.42	27.27	81	1.24
1108	3.82	34.539	0.71	3.35	116	-	63	1000	4.20	34.52	0.57	27.41	68	1.40
1203	3.58	34.557	0.84	3.58	122	-	59	1200	3.60	34.56	0.82	27.50	59	1.55
1296	3.34	34.570	0.97	3.32	125	-	56	1500	2.92	34.60	1.25	27.60	50	1.75
								2000	2.14	34.64	2.15	27.69	41	2.02
966a)	4.36	34.514	-	3.29	93	-	70	2500	1.84	34.66	2.60	27.73	37	2.27
1043	4.04	34.528	0.62	3.38	106	-	66	3000	1.65	34.67	2.87	27.76	35	2.50
1121	3.83	34.537	0.71	3.40	113	-	63							
1276	3.44	34.573	0.90	3.30	118	-	57							
1431	3.08	34.586	1.12	3.22	130	-	53							
1590	2.77	34.604	1.45	3.23	131	-	49							
1746	2.52	34.619	1.73	3.09	135	-	46							
1906	2.26	34.640	2.01	3.09	146	-	42							
2068	2.08	34.641	2.24	3.07	146	-	40							
2231	1.98	34.651	2.37	2.96	146	-	39							
2398	1.86	34.657	2.60	2.89	146	-	38							
2569	1.84	34.666	2.60	2.84	148	-	37							
2744	1.74	34.669	2.74	2.80	147	-	36							
2922	1.67	34.673	2.82	2.90	153	-	35							
3104	1.64	34.670	2.92	2.85	153	-	35							
3196	1.61	34.69	3.00	2.85	152	-	33							
3218	1.62	34.673	2.99	2.82	153	-	35							
3241	1.61	34.672	2.94	2.79	153	-	35							
3265	1.62	34.675	3.05	2.73	155	-	34							
3288	1.62	34.687	3.11	2.72	158	-	34							

a) Overlapping casts; reconciliation of property curves when necessary.

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OBSERVED							COMPUTED	INTERPOLATED				COMPUTED		
Z	T	S	O_2	PO_4-P	SiO_3-Si	NO_2-N	δ_T	Z	T	S	O_2	σ_t	δ_T	ΔD
m	°C	‰	ml/L	µg at/L	µg at/L	µg at/L	cl/ton	m	°C	‰	ml/L	g/L	cl/ton	dyn m

140.30 ALEXANDER AGASSIZ; February 29, 1964; 1315 GCT; 24°45'N, 112°24'W; sounding, 45 fm; wind, 290°, force 5; weather, partly cloudy; sea, rough; wire angle, 14°.

0	18.46	34.469	5.51	0.46	4	0.05	318	0	18.46	34.47	5.51	24.77	318	0.00
10	18.46	34.459	5.64	0.46	3	0.04	319	10	18.46	34.46	5.64	24.76	319	0.03
19	18.40	34.452	5.38	0.47	4	0.06	318	20	18.39	34.45	5.37	24.77	318	0.06
29	18.00	34.412	4.97	0.70	5	0.21	312	30	17.84	34.40	4.87	24.87	309	0.10
48	16.65	34.331	3.82	1.12	11	0.44	287	50	16.59	34.32	3.80	25.11	286	0.16
73	16.16	34.269	3.69	1.24	12	0.26	281	75	(16.14)	(34.27)	(3.68)	(25.17)	(280)	(0.23)

140.40 ALEXANDER AGASSIZ; February 29, 1964; 1803 GCT; 24°25'N, 113°02'W; sounding, 1727 fm; wind, 310°, force 4; weather, cloudy; sea, rough; wire angle, 09°.

0	18.80	34.478	5.51	0.35	3	0.00	326	0	18.80	34.48	5.51	24.69	326	0.00
10	18.79	34.468	5.70	0.38	3	0.00	326	10	18.79	34.47	5.70	24.69	326	0.03
30	18.82	34.499	5.46	0.37	2	0.00	325	20	18.80	34.48	5.60	24.69	326	0.07
59	18.78	34.506	5.47	0.39	3	0.04	323	30	18.82	34.50	5.46	24.70	325	0.10
69	15.18	33.947	4.11	1.07	8	0.29	283	50	18.80	34.50	5.47	24.71	324	0.16
84	13.56	33.976	3.21	1.48	14	0.07	248	75	14.45	33.95	3.66	25.30	268	0.24
99	12.47	34.017	2.80	1.81	17	0.00	225	100	12.42	34.02	2.78	25.77	224	0.30
114	11.89	34.073	2.53	1.96	21	0.00	210	125	11.78	34.17	2.21	26.01	201	0.35
138	11.66	34.279	1.79	2.32	26	0.00	191	150	11.47	34.32	1.59	26.18	184	0.40
158	11.36	34.345	1.46	2.45	28	0.00	181	200	11.00	34.50	0.87	26.41	163	0.49
188	11.12	34.472	0.97	-	-	-	167	250	10.63	34.59	0.53	26.54	150	0.57
217	10.82	34.531	0.75	-	-	-	158	300	9.99	34.55	0.44	26.62	143	0.65
247	10.66	34.586	0.55	-	-	-	151	400	8.57	34.49	0.41	26.81	125	0.79
296	10.05	34.561	0.44	-	-	-	143	500	7.21	34.44	0.39	26.97	110	0.91
350	9.25	34.510	0.44	-	-	-	134	600	6.18	34.42	0.36	27.09	98	1.03
435	8.11	34.477	0.39	-	-	-	119							
519	6.96	34.432	0.39	-	-	-	107							
603	6.16	34.423	0.35	-	-	-	97							

140.50 ALEXANDER AGASSIZ; March 1, 1964; 0526 GCT; 24°05.5'N, 113°39.5'W; sounding, 1750 fm; wind, 320°, force 5; weather, partly cloudy; sea, rough; wire angle, 30°.

1	18.74	34.454	5.47	0.39	1	0.00	326	0	(18.74)	(34.45)	(5.47)	(24.69)	(327)	(0.00)
10	18.73	34.466	5.64	0.37	2	0.00	325	10	18.73	34.47	5.64	24.70	325	0.03
32	18.76	34.455	5.74	0.38	2	0.00	327	20	18.75	34.46	5.69	24.69	326	0.07
57	18.62	34.452	5.46	0.37	2	0.00	324	30	18.76	34.46	5.73	24.69	326	0.10
66	15.82	33.970	5.18	0.65	4	0.11	295	50	18.71	34.45	5.55	24.69	326	0.16
83	13.34	33.926	3.44	1.45	12	0.01	248	75	13.97	33.93	4.00	25.39	260	0.24
96	12.74	34.000	2.69	1.74	15	0.00	231	100	12.51	34.01	2.57	25.74	226	0.30
108	12.04	34.045	2.42	1.96	19	0.00	215	125	11.52	34.17	2.02	26.05	196	0.35
133	11.30	34.233	1.84	2.35	27	0.00	188	150	10.86	34.32	1.59	26.29	174	0.40
150	10.86	34.316	1.59	2.48	29	0.00	174	200	10.60	34.51	0.69	26.49	156	0.48
175	11.06	34.497	0.93	-	-	-	164	250	9.95	34.50	0.58	26.59	146	0.56
203	10.55	34.508	0.68	-	-	-	155	300	9.23	34.50	0.44	26.71	134	0.63
230	10.22	34.494	0.66	-	-	-	150	400	8.03	34.46	0.34	26.87	119	0.77
270	9.66	34.503	0.49	-	-	-	141	500	6.92	34.47	0.32	27.03	103	0.89
325	8.90	34.497	0.42	-	-	-	129							
410	7.92	34.464	0.33	-	-	-	118							
487	7.06	34.466	0.32	-	-	-	106							
553	6.48	34.474	0.28	-	-	-	98							

TEMPERATURE AND SALINITY AT 10 METERS (NET-TOW STATIONS)

Station	Date	Time GCT	Latitude North	Longitude West	Sounding (fm)	Wind Dir	Wind Force	Weather	Sea	10 Meters T	10 Meters S
60.49-G	II-1	0135	37°59.0'	122°49.5'	13	340°	2	fog	missing	11.12	32.143
60.50-G	1	0230	37°57.5'	122°53.0'	25	340°	3	fog	missing	11.22	32.761
60.51-G	1	0310	37°55.5'	122°57.0'	32	340°	3	clear	missing	11.36	32.982
60.55-G	1	0530	37°46.5'	123°15.0'	75	320°	2	clear	missing	11.8	33.058
63.50-G	I-29	1820	37°23.0'	122°28.0'	16	260°	1	cloudy	moderate	11.76	33.300
63.50-G	29	1840	37°24.0'	122°26.5'	11	110°	2	cloudy	slight	11.98	33.454
63.51-G	29	1740	37°21.5'	122°32.0'	34	180°	1	partly cloudy	moderate	12.10	33.491
67.47-G	28	2205	36°54.5'	121°53.0'	10	120°	1	light fog	slight	12.27	33.285
67.48-G	28	2255	36°53.0'	121°56.0'	21	110°	1	light fog	slight	12.40	33.487
67.49-G	28	2350	36°51.0'	122°00.0'	43	270°	1	light fog	moderate	12.23	33.429
70.50-G	28	1640	36°11.5'	121°44.0'	100	240°	1	clear	moderate	13.10	33.600
70.51-G	28	1550	36°10.5'	121°45.5'	220	340°	2	clear	rough	13.14	33.589
70.52-G	28	1503	36°08.5'	121°50.0'	360	330°	5	partly cloudy	rough	13.26	33.627
73.50-G	24	2015	35°38.0'	121°14.0'	17	270°	2	clear	moderate	13.06	33.633
73.50-G	24	2105	35°37.0'	121°17.0'	50	230°	2	clear	moderate	13.19	33.615
73.51-G	24	2155	35°35.0'	121°21.0'	210	280°	2	partly cloudy	moderate	13.78	33.625
77.48-G	20	0040	35°09.0'	120°42.0'	7	170°	3	drizzle	missing	12.85	33.603
77.48-G	20	0100	35°08.5'	120°43.5'	16	170°	4	cloudy	missing	13.03	33.620
77.49-G	20	0200	35°06.5'	120°48.0'	34	170°	3	rain	very rough	14.10	33.638

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TEMPERATURE AND SALINITY AT 10 METERS (NET-TOW STATIONS)

Station	Date	Time GCT	Latitude North	Longitude West	Sounding (fm)	Wind Dir	Wind Force	Weather	Sea	10 Meters T	10 Meters S
80.51-G	I-15	2015	34°27.0'	120°29.5'	24	120°	3	partly cloudy	rough	14.42	33.642
80.52-G	15	2250	34°24.5'	120°36.5'	-	320°	3	clear	very rough	14.21	33.641
82.47-B	II-5	2255	34°15.0'	119°58.0'	300	260°	3	partly cloudy	moderate	14.57	33.662
83.39-B	5	1735	34°15.5'	119°17.5'	8	320°	2	partly cloudy	moderate	13.92	33.675
83.40-B	5	1810	34°14.0'	119°22.0'	12	320°	2	partly cloudy	moderate	14.82	33.698
83.43-B	5	1910	34°08.0'	119°34.0'	150	200°	2	partly cloudy	moderate	14.63	33.665
83.51-B	6	0245	33°52.0'	120°07.5'	60	300°	5	partly cloudy	very rough	13.66	33.628
83.55-B	6	0545	33°45.0'	120°21.5'	440	300°	6	clear	very rough	13.85	33.491
83.65-B	6	1255	33°22.0'	121°06.0'	1900	320°	5	clear	very rough	13.93	33.493
83.70-B	6	1545	33°12.0'	121°25.0'	1900	320°	4	overcast	rough	14.24	33.295
83.80-B	6	2010	32°55.5'	122°08.0'	2200	340°	4	partly cloudy	rough	14.45	33.272
83.90-B	7	0045	32°35.0'	122°48.0'	2100	340°	3	partly cloudy	rough	14.26	33.290
87.33-B	8	1500	33°53.5'	118°30.5'	27	040°	2	partly cloudy	slight	15.04	33.708
87.33-B	8	1610	33°54.0'	118°26.5'	9	140°	2	cloudy	slight	14.87	33.702
87.34-B	8	1410	33°52.0'	118°34.0'	37	calm		partly cloudy	slight	15.02	33.714
87.35-B	8	1305	33°50.0'	118°37.5'	250	360°	1	clear	smooth	14.48	33.688
87.40-B	8	1055	33°40.0'	118°58.0'	450	040°	2	partly cloudy	smooth	14.76	33.631
87.45-B	8	0815	33°30.0'	119°19.0'	900	200°	3	clear	slight	13.77	33.560
87.50-B	8	0515	33°19.0'	119°41.5'	40	290°	3	partly cloudy	moderate	14.40	33.428

TEMPERATURE AND SALINITY AT 10 METERS (NET-TOW STATIONS)

Station	Date	Time GCT	Latitude North	Longitude West	Sounding (fm)	Wind Dir	Wind Force	Weather	Sea	10 Meters T	10 Meters S
87.55-B	II-8	0250	33°10.0'	120°00.0'	600	300°	4	partly cloudy	rough	14.42	33.403
87.60-B	7	2005	33°01.5'	120°23.0'	400	040°	3	partly cloudy	moderate	13.94	33.495
87.65-B	7	1730	32°50.0'	120°43.0'	1950	040°	3	partly cloudy	moderate	13.99	33.499
87.70-B	7	1530	32°46.0'	120°58.5'	2100	030°	4	partly cloudy	moderate	13.81	33.548
87.80-B	7	1035	32°23.0'	121°43.5'	2200	040°	4	clear	moderate	14.76	33.290
87.90-B	7	0535	32°00.0'	122°23.0'	2400	040°	3	clear	moderate	14.13	33.275
90.28-G	6	0805	33°29.5'	117°45.0'	20	070°	5	clear	missing	15.18	33.708
90.65-G	7	2345	32°14.5'	120°18.0'	2000	080°	2	cloudy	moderate	14.16	33.377
93.27-B	9	0450	32°57.0'	117°16.5'	10	280°	1	partly cloudy	slight	15.26	33.704
93.27-B	9	0525	32°56.0'	117°19.0'	50	280°	1	partly cloudy	slight	15.26	33.695
93.35-B	9	1140	32°40.5'	117°51.5'	350	330°	1	partly cloudy	slight	15.81	33.747
93.45-B	9	1655	32°19.0'	118°32.5'	860	var.	1	overcast	slight	15.74	33.693
93.55-B	9	2158	32°00.0'	119°13.0'	800	320°	1	cloudy	moderate	14.40	33.466
93.65-B	10	0300	31°40.0'	119°54.0'	2100	270°	3	partly cloudy	moderate	14.10	33.333
97.29-B	12	1205	32°17.5'	117°03.5'	23	120°	1	missing	moderate	14.61	33.723
97.29-B	12	1250	32°19.5'	117°04.0'	9	120°	1	missing	moderate	14.63	33.728
97.30-B	12	1105	32°16.0'	117°07.0'	28	090°	1	missing	moderate	14.64	33.716
97.32-B	12	0955	32°12.0'	117°15.0'	700	300°	2	clear	moderate	15.26	33.715
97.35-B	12	0810	32°06.5'	117°27.5'	700	300°	3	clear	rough	15.79	33.646

TEMPERATURE AND SALINITY AT 10 METERS (NET-TOW STATIONS)

Station	Date	Time GCT	Latitude North	Longitude West	Sounding (fm)	Wind Dir	Wind Force	Weather	Sea	10 Meters T	10 Meters S
97.40-B	II-12	0540	31°56.0'	117°48.0'	550	320°	5	clear	very rough	15.68	33.654
97.45-B	12	0315	31°46.0'	118°08.5'	800	320°	6	cloudy	very rough	15.76	33.733
97.50-B	12	0030	31°36.0'	118°29.0'	1350	320°	6	cloudy	very rough	15.70	33.735
97.55-B	11	2140	31°26.5'	118°57.0'	700	300°	6	overcast	very rough	15.69	33.697
97.60-B	11	1905	31°15.0'	119°12.0'	1950	320°	6	cloudy	very rough	15.02	33.546
97.65-B	11	1700	31°06.0'	119°26.5'	1950	330°	6	cloudy	very rough	14.91	33.555
97.70-B	11	1420	30°55.5'	119°47.5'	1900	320°	5	overcast	very rough	14.70	33.509
97.80-B	11	0920	30°35.0'	120°30.5'	2100	320°	4	overcast	moderate	15.50	33.543
97.90-B	11	0410	30°15.5'	121°11.5'	2100	340°	3	missing	moderate	15.49	33.521
100.29-G	18	1940	31°42.0'	116°43.0'	17	290°	3	partly cloudy	very rough	14.79	33.738
100.45-G	19	0610	31°10.5'	117°48.0'	1130	330°	4	partly cloudy	rough	14.78	33.714
100.55-G	19	1140	30°51.0'	118°29.0'	1000+	320°	4	missing	rough	15.17	33.704
100.65-G	16	0610	30°30.5'	119°07.0'	2000+	300°	3	missing	moderate	15.14	33.542
103.29-B	14	1115	31°08.0'	116°19.0'	10	300°	1	missing	moderate	15.06	33.714
103.29-B	14	1215	31°07.0'	116°21.0'	18	090°	1	missing	rough	15.35	33.725
103.30-B	14	1300	31°06.0'	116°24.5'	36	090°	1	missing	rough	15.72	33.702
103.35-B	14	1555	30°54.0'	116°52.0'	800	060°	2	clear	rough	15.71	33.705
103.40-B	14	1810	30°47.0'	117°09.5'	1000	060°	3	partly cloudy	rough	15.63	33.688
103.45-B	14	2100	30°37.0'	117°25.5'	1000	320°	3	clear	rough	15.55	33.706

Station	Date	Time GCT	Latitude North	Longitude West	Sounding (fm)	Wind Dir	Wind Force	Weather	Sea	10 Meters T	10 Meters S
103.50-B	II-14	2340	30°27.0'	117°44.5'	1500	320°	3	clear	rough	15.64	33.718
103.55-B	15	0215	30°15.5'	118°07.0'	1050	320°	4	clear	rough	15.58	33.686
103.60-B	15	0425	30°07.5'	118°24.5'	1800	320°	2	clear	rough	15.30	33.552
103.65-B	15	0655	29°56.5'	118°44.0'	1950	320°	2	clear	rough	15.58	33.570
103.70-B	15	0900	29°46.0'	119°04.0'	1900	360°	2	clear	rough	15.60	33.643
103.80-B	15	1335	29°27.0'	119°41.0'	2000	330°	2	partly cloudy	rough	16.42	33.684
103.90-B	15	1825	29°05.0'	120°21.5'	2100	320°	4	cloudy	rough	16.16	33.604
107.30-B	17	2155	30°29.0'	116°03.5'	9	290°	2	partly cloudy	rough	15.14	33.694
107.31-B	17	2055	30°28.0'	116°07.0'	25	280°	3	partly cloudy	rough	15.02	33.688
107.32-B	17	0340	30°26.0'	116°11.0'	400	330°	7	missing	very rough	15.71	33.690
107.35-B	17	0210	30°21.5'	116°22.5'	960	330°	7	partly cloudy	very rough	15.87	33.625
107.40-B	16	2330	30°12.0'	116°42.0'	1300	310°	7	cloudy	very rough	15.46	33.657
107.45-B	16	2110	30°01.5'	117°02.0'	1000	310°	7	drizzle	very rough	15.40	33.639
107.50-B	16	1820	29°51.5'	117°23.0'	1100	320°	6	showers	very rough	15.33	33.617
107.55-B	16	1545	29°41.0'	117°42.0'	1800	320°	5	cloudy	very rough	16.56	33.848a)
107.60-B	16	1310	29°32.0'	118°01.5'	1800	320°	6	missing	rough	16.58	33.795
107.65-B	16	1035	29°22.0'	118°21.0'	1600	320°	4	missing	rough	15.69	33.493

a) Possible evaporation.

TEMPERATURE AND SALINITY AT 10 METERS (NET-TOW STATIONS)

Station	Date	Time GCT	Latitude North	Longitude West	Sounding (fm)	Wind Dir	Wind Force	Weather	Sea	10 Meters T	10 Meters S
107.70-B	II-16	0825	29°12.0'	118°40.0'	1750	320°	4	drizzle	rough	15.46	33.463
107.80-B	16	0355	28°54.0'	119°15.5'	2000	320°	3	missing	rough	16.57	33.799
107.90-B	15	2300	28°32.0'	119°55.5'	2000	320°	4	cloudy	rough	16.42	33.648
110.32-G	20	0125	29°52.0'	115°48.0'	13	340°	3	cloudy	moderate	15.12	33.692
110.45-G	20	0845	29°26.0'	116°40.0'	1080	300°	3	missing	moderate	15.60	33.646
110.55-G	20	1400	29°05.5'	117°21.5'	1870	340°	4	partly cloudy	rough	16.49	33.799
110.65-G	20	1938	28°46.5'	117°57.5'	1910	360°	3	clear	rough	16.36	33.698
113.28-B	18	0630	29°25.5'	115°11.5'	10	270°	2	missing	moderate	14.08	33.649
113.29-B	18	0720	29°24.0'	115°14.0'	15	270°	2	missing	moderate	14.23	33.671
113.30-B	18	0815	29°22.0'	115°18.0'	33	290°	3	missing	moderate	14.54	33.663
113.35-B	18	1040	29°11.5'	115°38.0'	750	320°	4	missing	rough	15.82	33.635
113.40-B	18	1300	28°59.5'	115°57.5'	1000	320°	4	missing	rough	16.12	33.684
113.45-B	18	1540	28°47.0'	116°19.0'	1500	320°	4	partly cloudy	rough	16.22	33.742
113.50-B	18	1810	28°37.0'	116°40.0'	2050	340°	4	partly cloudy	rough	16.48	33.803
113.55-B	18	1935	28°30.5'	116°54.0'	1750	340°	3	partly cloudy	rough	16.74	33.842
113.60-B	18	2215	28°22.0'	117°15.0'	2000	320°	4	cloudy	rough	16.70	33.837
113.65-B	19	0040	28°11.5'	117°34.5'	2000	330°	5	cloudy	rough	16.58	33.877
113.70-B	19	0310	28°02.0'	117°54.0'	1950	320°	4	overcast	rough	16.27	33.686
113.80-B	19	0745	27°43.0'	118°33.5'	2050	330°	4	cloudy	rough	16.14	33.613

TEMPERATURE AND SALINITY AT 10 METERS (NET-TOW STATIONS)

Station	Date	Time GCT	Latitude North	Longitude West	Sounding (fm)	Wind Dir	Wind Force	Weather	Sea	10 Meters T	10 Meters S
113.90-B	II-19	1145	27°22.0'	119°12.0'	2000	340°	4	cloudy	rough	16.15	33.628
117.25-B	21	0318	28°58.0'	114°37.0'	30	020°	4	partly cloudy	moderate	14.94	33.691
117.25-B	21	0400	28°58.5'	114°36.5'	9	100°	2	partly cloudy	moderate	14.77	33.685
117.26-B	21	0225	28°58.0'	114°48.0'	36	020°	6	partly cloudy	very rough	15.23	33.695
117.30-B	20	2350	28°52.0'	114°58.5'	55	050°	5	partly cloudy	very rough	15.81	33.718
117.35-B	20	2110	28°38.0'	115°16.0'	120	070°	5	partly cloudy	rough	16.07	33.743
117.40-B	20	1600	28°28.0'	115°35.5'	500	030°	5	partly cloudy	moderate	15.95	33.643
117.45-B	20	1335	28°18.0'	115°56.0'	1800	310°	3	partly cloudy	moderate	16.32	33.778
117.50-B	20	1145	28°08.0'	116°15.0'	2000	330°	3	cloudy	moderate	16.42	33.813
117.55-B	20	0900	27°58.0'	116°34.5'	2000	330°	4	cloudy	moderate	16.70	33.854
117.60-B	20	0635	27°49.5'	116°54.5'	1950	320°	4	cloudy	moderate	16.62	33.798
117.65-B	20	0355	27°40.0'	117°13.5'	2050	320°	4	partly cloudy	moderate	16.40	33.675
117.70-B	20	0115	27°30.5'	117°33.0'	2100	320°	3	cloudy	moderate	16.40	33.632
117.80-B	19	2105	27°12.0'	118°08.5'	2000	360°	4	cloudy	moderate	16.29	33.627
117.90-B	19	1610	26°51.0'	118°49.0'	2050	360°	4	partly cloudy	rough	17.00	33.815
118.39-B	20	1755	28°18.5'	115°23.5'	153	060°	5	partly cloudy	moderate	15.92	33.804
120.22-B	21	0800	28°28.0'	114°04.0'	10	320°	3	partly cloudy	moderate	13.91	33.771
120.23-B	21	0845	28°27.0'	114°06.5'	13	320°	3	partly cloudy	moderate	14.12	33.734
120.24-B	21	0930	28°25.0'	114°10.5'	20	320°	3	partly cloudy	moderate	14.49	33.743

TEMPERATURE AND SALINITY AT 10 METERS (NET-TOW STATIONS)

Station	Date	Time GCT	Latitude North	Longitude West	Sounding (fm)	Wind Dir	Wind Force	Weather	Sea	10 Meters T	10 Meters S
120.25-B	II-21	1020	28°22.5'	114°15.0'	32	020°	5	partly cloudy	moderate	14.85	33.735
120.30-B	21	1235	28°13.0'	114°34.0'	50	360°	4	partly cloudy	moderate	15.25	33.772
120.35-B	21	1450	28°03.0'	114°54.0'	45	340°	4	partly cloudy	moderate	15.76	33.782
120.40-B	21	1710	27°56.5'	115°14.0'	20	030°	4	partly cloudy	moderate	15.23	33.787
120.55-G	23	2300	27°23.0'	116°11.5'	2030	330°	4	partly cloudy	rough	16.70	33.822
120.65-G	23	1650	27°03.0'	116°50.0'	2050	320°	4	clear	moderate	16.58	34.024
123.36-B	21	2350	27°26.0'	114°36.0'	25	030°	3	partly cloudy	moderate	15.61	34.046
123.37-B	22	0040	27°24.0'	114°40.0'	40	320°	4	partly cloudy	moderate	15.90	34.039
123.42-B	22	0300	27°14.0'	114°59.0'	1150	320°	4	partly cloudy	moderate	15.65	33.825
123.45-B	22	0445	27°08.0'	115°10.5'	2250	360°	3	missing	moderate	16.00	33.762
123.50-B	22	0710	26°58.0'	115°31.0'	2200	360°	4	missing	moderate	16.59	33.819
123.55-B	22	0910	26°48.5'	115°49.5'	2000	010°	5	clear	moderate	16.27	33.821
123.60-B	22	1130	26°38.5'	116°09.0'	2000	030°	5	clear	moderate	17.24	34.160
123.65-B	22	1350	26°28.5'	116°28.0'	2000	030°	5	partly cloudy	rough	17.44	34.154
123.70-B	22	1610	26°18.0'	116°46.0'	1950	030°	4	partly cloudy	rough	17.70	34.144
123.80-B	22	2025	25°56.5'	117°23.0'	2000	360°	4	partly cloudy	moderate	16.38	33.735
124.36-B	21	2305	27°24.0'	114°32.0'	10	020°	4	partly cloudy	moderate	15.56	33.980
127.32-B	24	0040	26°58.5'	114°00.5'	9	280°	5	partly cloudy	rough	16.81	34.323
127.33-B	23	2350	26°57.5'	114°02.0'	35	280°	5	partly cloudy	rough	16.17	33.961

TEMPERATURE AND SALINITY AT 10 METERS (NET-TOW STATIONS)

Station	Date	Time GCT	Latitude North	Longitude West	Sounding (fm)	Wind Dir	Wind Force	Weather	Sea	10 Meters T	10 Meters S
133.30-B	II-24	1630	25°54.5'	113°07.5'	106	290°	1	partly cloudy	moderate	18.52	34.490
133.35-B	24	1850	25°44.5'	113°29.5'	360	090°	3	cloudy	moderate	17.46	34.487
133.40-B	24	2115	25°35.0'	113°44.0'	1300	090°	2	partly cloudy	moderate	17.54	34.445
133.45-B	24	2345	25°24.5'	114°04.0'	2000	090°	2	cloudy	moderate	17.36	34.281
133.50-B	25	0200	25°15.5'	114°26.0'	2000	240°	2	partly cloudy	moderate	18.41	34.391
133.55-B	25	0415	25°06.5'	114°43.0'	2200	var.	1	cloudy	slight	18.05	34.346
133.60-B	25	0635	24°56.5'	115°01.0'	2100	var.	1	overcast	slight	18.08	34.357
133.65-B	25	0845	24°47.0'	115°18.0'	2000	var.	-	partly cloudy	slight	17.80	34.157
133.70-B	25	1100	24°37.0'	115°35.5'	2000	360°	1	partly cloudy	slight	18.44	34.354
133.80-B	25	1550	24°14.5'	116°17.0'	1850	030°	2	partly cloudy	moderate	19.24	34.323
137.20-G	29	0645	25°41.0'	112°07.5'	6	280°	5	cloudy	rough	17.51	34.535
137.21-G	29	0550	25°38.5'	112°12.0'	14	280°	6	cloudy	rough	17.68	34.474
137.22-G	29	0455	25°36.0'	112°15.0'	30	280°	6	cloudy	rough	17.70	34.483
137.35-G	28	2112	25°10.0'	113°04.5'	660	300°	5	cloudy	rough	18.32	34.509
137.45-G	28	1545	24°47.5'	113°40.5'	1748	330°	4	cloudy	moderate	17.81	34.347
137.55-G	28	1015	24°27.0'	114°22.0'	2000	320°	3	cloudy	moderate	18.02	34.267
140.29-G	29	1210	24°48.0'	112°19.0'	8	290°	5	partly cloudy	rough	18.18	34.490
140.35-G	29	1535	24°35.0'	112°42.5'	490	290°	5	cloudy	rough	18.59	34.496
140.45-G	30	0225	24°14.0'	113°17.0'	1860	320°	4	cloudy	rough	18.88	34.499

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