

UNIVERSITY OF CALIFORNIA SCRIPPS INSTITUTION OF OCEANOGRAPHY

data report

PHYSICAL AND CHEMICAL DATA
CCOFI CRUISE 5507
(MLR 74)
8-23 July 1955

*Note
5508 in NORPAC*

SIO Reference 59-46
18 May 1959

UNIVERSITY OF CALIFORNIA
SCRIPPS INSTITUTION OF OCEANOGRAPHY

PHYSICAL AND CHEMICAL DATA

CCOFI CRUISE 5507

(MLR 74)

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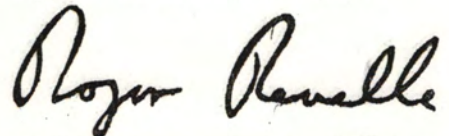
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Marine Research Committee

SIO Reference 59-46

18 May 1959

Approved for distribution:



Roger Revelle, Director

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Director, Office of Oceanography

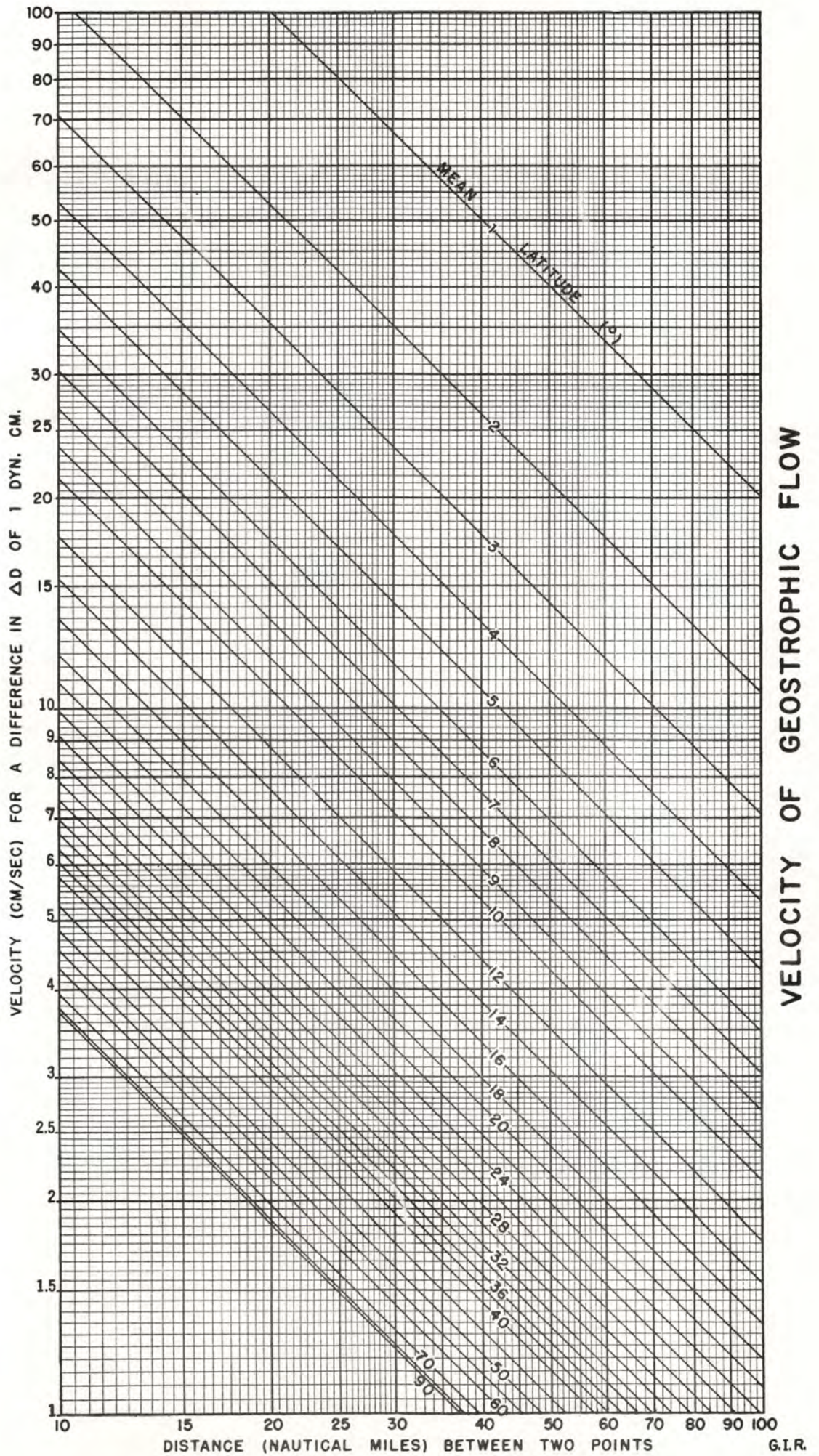
INTRODUCTION

The data presented in this report were collected on the seventy-fourth consecutive cruise of the California Cooperative Oceanic Fisheries Investigations program. The R/V Black Douglas of the U. S. Fish and Wildlife Service, the R/V Crest and the R/V Paolina-T of the Scripps Institution participated in this cruise.

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.

FORMAT

These data are typed in the format of the University of California Press publication, "Oceanic Observations of the Pacific." So that these pages can be used as copy for the 1955 volume, the first page of the Cruise 5507 data is numbered 162.



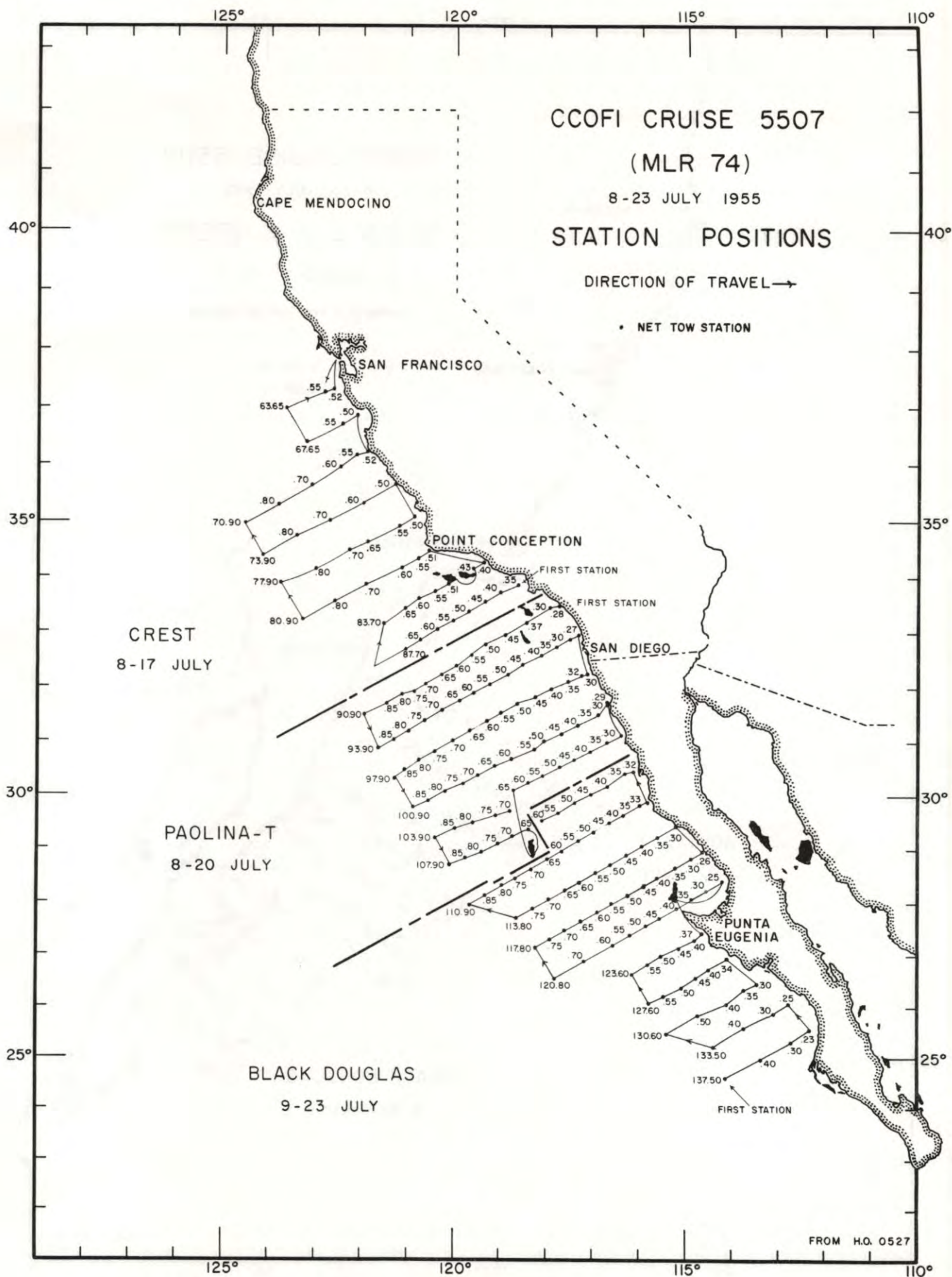


FIGURE 1

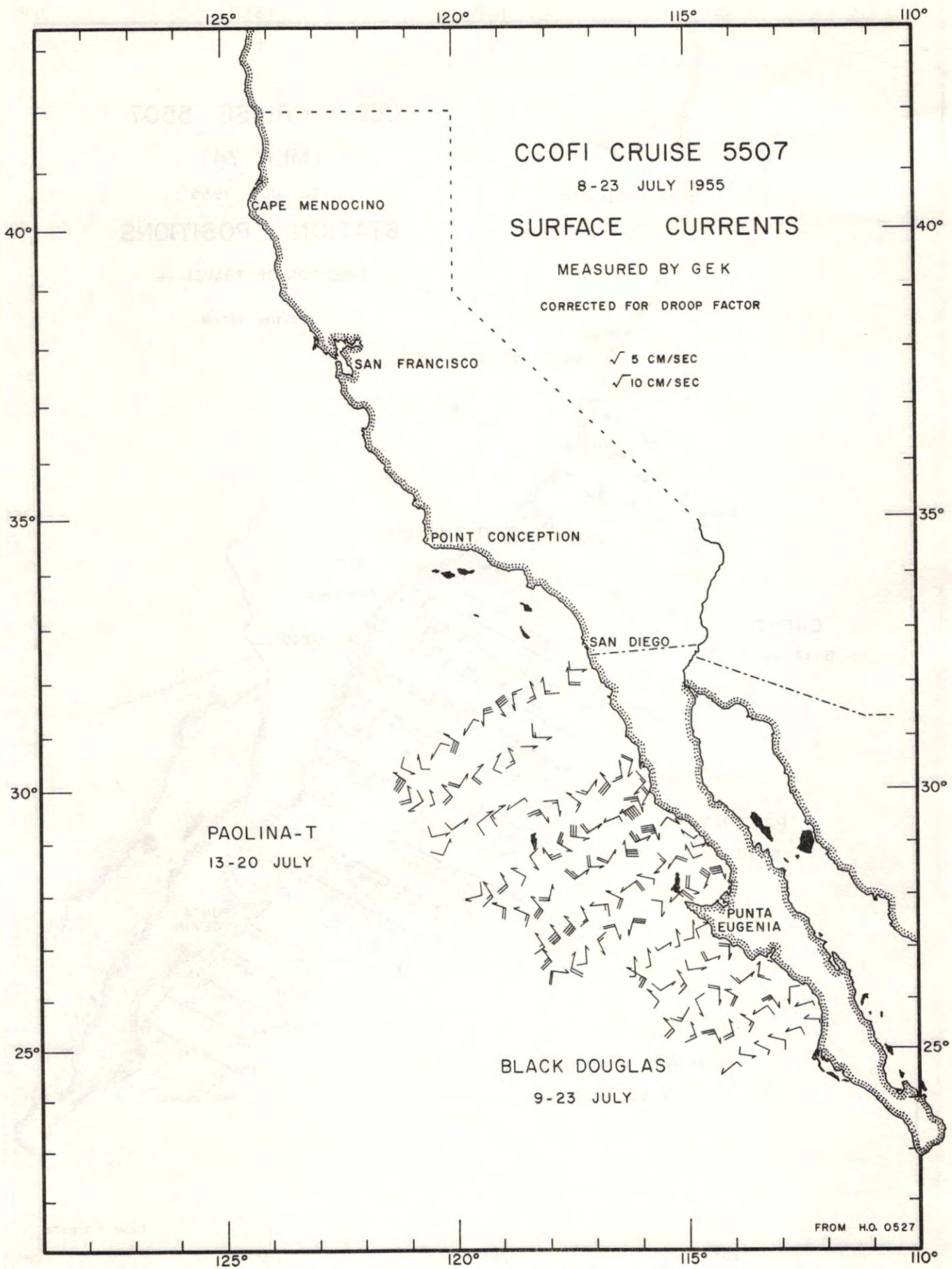


FIGURE 2

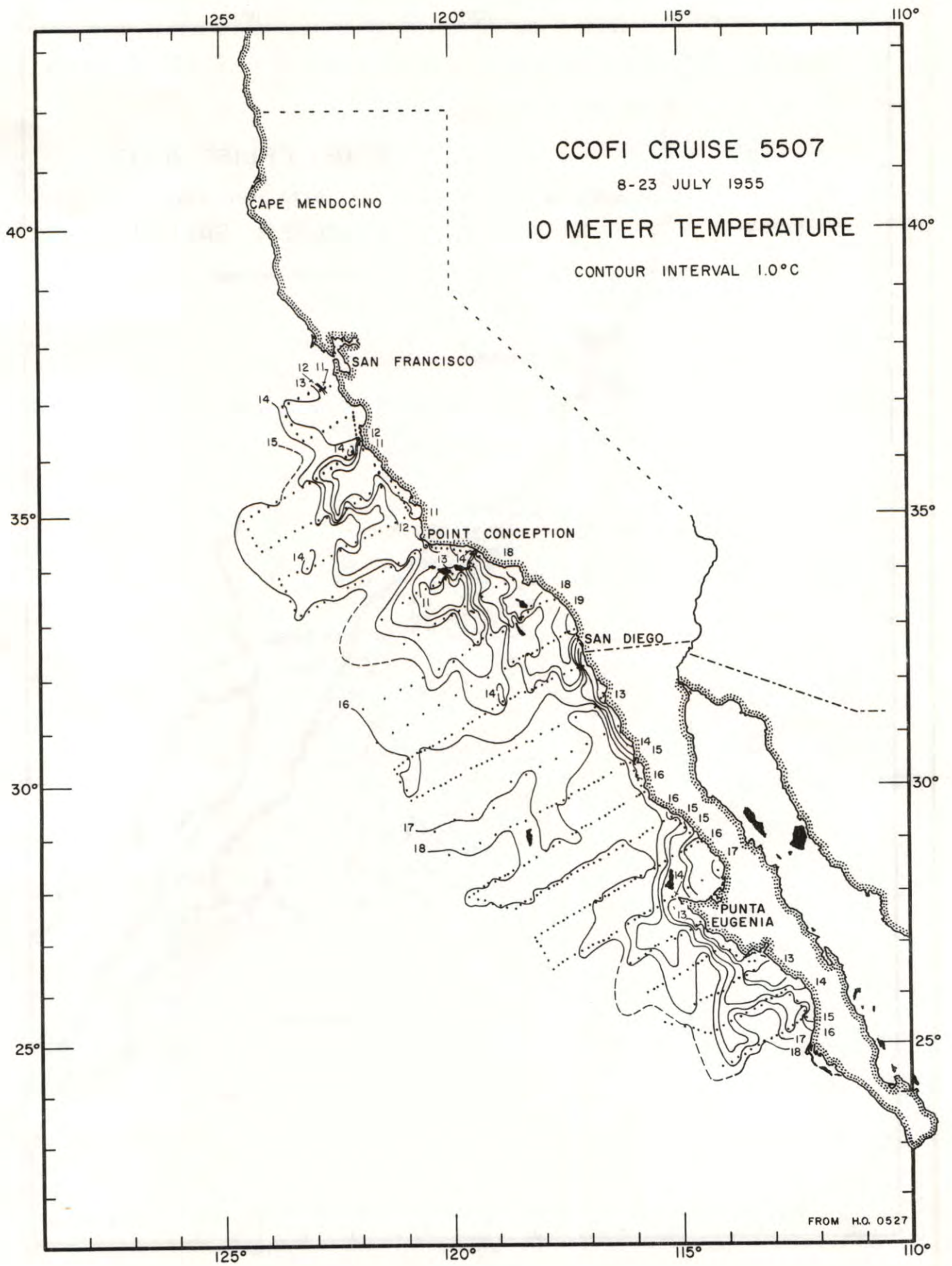


FIGURE 3

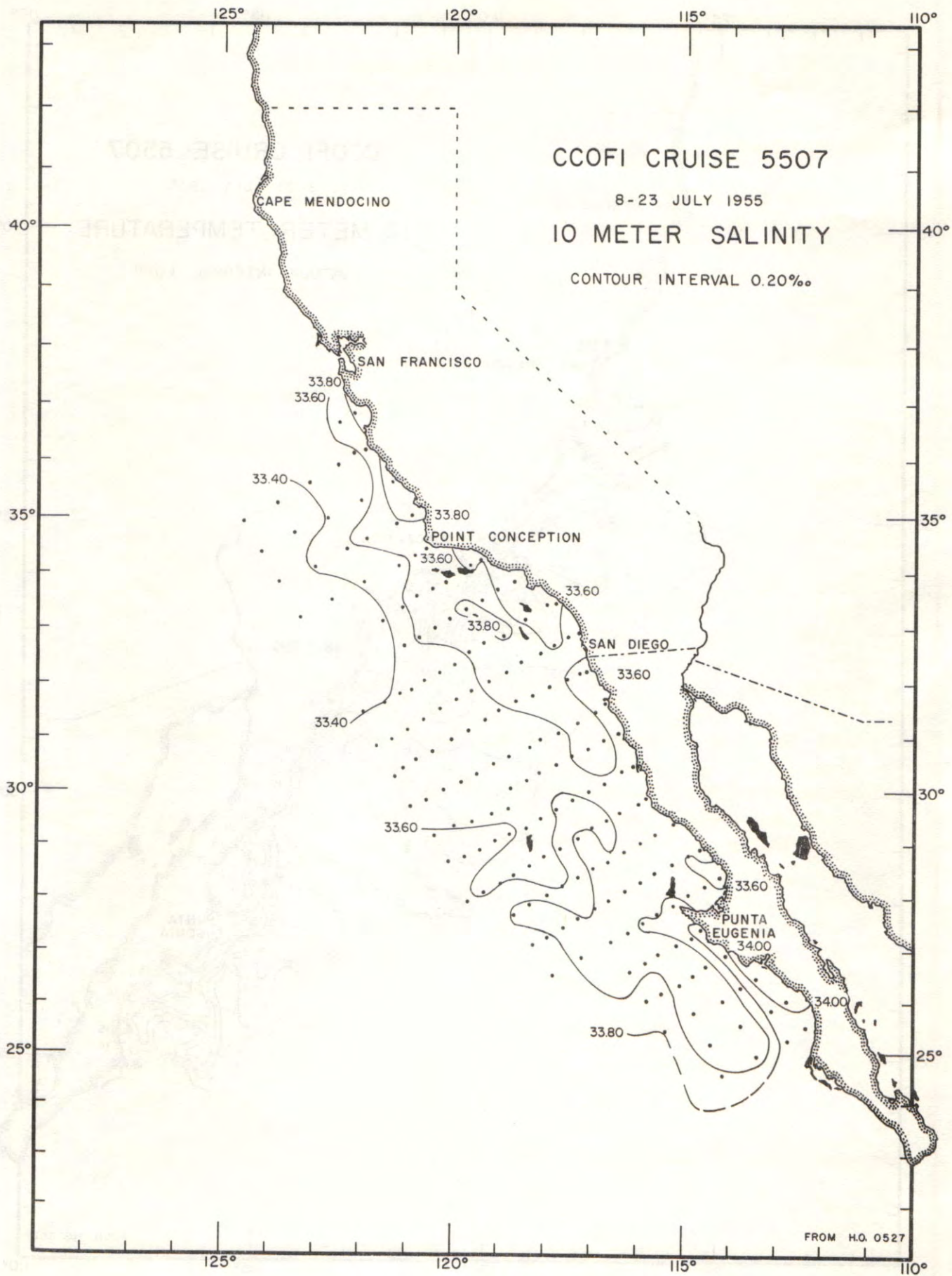


FIGURE 4

PERSONNEL

SHIPS' CAPTAINS

Forster, Charles W. , R/V Black Douglas

Miller, Frank, R/V Paolina-T

Newbegin, Robert C. , R/V Crest

PERSONNEL PARTICIPATING IN THE COLLECTION OF DATA

R/V Black Douglas

Vrooman, Andrew M. , Fishery Research Biologist, U. S. Fish and Wildlife Service

Bower, Donald R. , Fishery Aid, U. S. Fish and Wildlife Service

Hinds, James W. , Jr. , Marine Technician

R/V Crest

Grom, Robert A. , Fishery Aid, U. S. Fish and Wildlife Service

Boyd, C. M. , summer fellowship student

Coolidge, Richard N. , Senior Marine Technician

R/V Paolina-T

Wolf, Robert S. , Fishery Research Biologist, U. S. Fish and Wildlife Service

Bryer, Bruce A. , Marine Technician

Glynn, Peter W. , summer fellowship student

*Marthinson, Detlow, summer fellowship student

*Stern, Richard, summer fellowship student

*Stern replaced Marthinson after three days of the cruise.

Station	Date	Time GCT	Latitude North	Longitude West	Sounding (fm)	Wind		Weather	Sea	10 Meters	
						Dir	Force			T	S
63.52-C	VII-15	1200	37°16.5'	122°37.0'	50	340°	3	missing	slight	10.23	-
63.55-C	15	1020	37°12.5'	122°50.0'	155	340°	4	missing	moderate	12.73	-
63.65-C	15	0505	36°55.0'	123°35.0'	1950	360°	3	missing	moderate	13.42	-
67.50-C	14	1715	36°49.5'	122°04.5'	58	350°	3	fog	slight	9.76	33.85
67.55-C	14	2000	36°39.0'	122°26.0'	1100	330°	3	fog	slight	12.22	33.66
67.65-C	15	0020	36°19.0'	123°09.0'	1800	340°	4	missing	moderate	13.88	-
70.52-C	14	1230	36°10.5'	121°51.0'	340	340°	4	fog	slight	10.63	33.71
70.55-C	14	1045	36°07.0'	122°05.5'	700	350°	3	fog	slight	14.10	33.42
70.60-C	14	0810	35°56.5'	122°26.5'	1400	320°	4	fog	moderate	11.56	33.51
70.70-C	14	0330	35°38.0'	123°03.0'	2000+	320°	3	overcast	moderate	14.18	33.44
70.80-C	13	2310	35°17.5'	123°46.0'	2000	350°	3	overcast	very rough	14.96	33.26
70.90-C	13	1815	34°56.0'	124°29.0'	2000+	360°	4	overcast	rough	14.84	33.29
73.50-C	12	1928	35°37.0'	121°17.5'	50	330°	2	fog	slight	9.82	33.96
73.60-C	13	0000	35°18.0'	121°58.0'	1300	320°	3	overcast	rough	11.38	33.51
73.70-C	13	0420	34°59.0'	122°41.0'	2000+	330°	4	overcast	rough	14.09	33.40
73.80-C	13	0850	34°40.5'	123°21.5'	2000	350°	4	drizzle	rough	14.33	33.30
73.90-C	13	1330	34°21.5'	124°03.0'	2000+	320°	3	drizzle	rough	14.40	33.33
77.50-C	12	1525	35°04.0'	120°52.5'	83	-	1	drizzle	slight	10.70	33.93
77.55-C	12	1235	34°53.5'	121°11.5'	320	040°	3	drizzle	moderate	12.17	33.76

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

Station	Date	Time GCT	Latitude North	Longitude West	Sounding (fm)	Wind		Weather	Sea	10 Meters	
						Dir	Force			T	S
77.65-C	VII-12	0745	34°35.0'	121°51.5'	2000+	330°	4	missing	rough	12.28	33.66
77.70-C	12	0540	34°25.0'	122°14.0'	2000+	360°	5	drizzle	very rough	13.12	33.58
77.80-C	12	0040	34°07.5'	122°58.5'	2000+	360°	4	overcast	rough	14.04	33.48
77.90-C	11	1950	33°50.0'	123°42.0'	2000+	340°	4	overcast	very rough	14.84	33.28
80.51-C	10	1945	34°26.0'	120°33.0'	80	340°	6	partly cloudy	moderate	11.16	33.69
80.55-C	10	2200	34°19.5'	120°47.5'	430	310°	4	cloudy	moderate	13.74	33.68
80.60-C	11	0020	34°09.0'	121°09.0'	1200	340°	5	overcast	moderate	12.38	33.49
80.70-C	11	0500	33°50.5'	121°51.0'	2000+	340°	5	missing	rough	14.47	33.44
80.80-C	11	1010	33°31.5'	122°32.0'	2000+	360°	4	missing	moderate	14.87	33.30
80.90-C	11	1450	33°12.5'	123°14.0'	2000+	360°	5	overcast	very rough	14.84	33.35
83.40-C	10	1345	34°13.5'	119°22.0'	12	280°	2	partly cloudy	slight	17.04	33.60
83.43-C	10	1200	34°07.5'	119°34.0'	140	270°	2	partly cloudy	smooth	15.68	33.58
83.51-C	10	0630	33°51.0'	120°08.0'	100	320°	7	partly cloudy	moderate	10.78	33.71
83.55-C	10	0400	33°44.5'	120°23.0'	600	320°	5	fog	rough	12.10	33.75
83.60-C	10	0100	33°34.5'	120°44.5'	750	300°	4	fog	moderate	11.46	33.70
83.65-C	9	2215	33°23.0'	121°01.5'	1900	310°	5	overcast	moderate	12.56	33.58
83.70-C	9	1925	33°09.0'	121°29.0'	2000+	320°	5	overcast	rough	13.36	33.37
87.35-C	8	0830	33°50.0'	118°38.0'	295	calm		partly cloudy	smooth	17.94	33.59
87.40-C	8	1130	33°42.5'	119°01.0'	490	calm		partly cloudy	smooth	16.10	33.59

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

Station	Date	Time GCT	Latitude North	Longitude West	Sounding (fm)	Wind		Weather	Sea	10 Meters	
						Dir	Force			T	S
87.45-C	VII-8	1435	33°30.0'	119°20.0'	900	120°	1	partly cloudy	moderate	16.68	33.63
87.50-C	8	1705	33°20.0'	119°40.0'	40	280°	3	cloudy	moderate	11.42	33.88
87.55-C	8	2000	33°10.5'	120°00.0'	640	330°	4	clear	rough	13.06	33.75
87.60-C	8	2230	33°01.0'	120°21.5'	420	330°	5	clear	rough	12.82	33.71
87.65-C	9	0100	32°50.5'	120°41.0'	2000+	330°	7	clear	very rough	13.38	33.66
87.70-C	9	0400	32°40.5'	121°01.0'	2000+	320°	7	clear	very rough	14.64	33.49
90.28-P	8	0815	33°28.5'	117°45.5'	100	140°	3	cloudy	smooth	17.46	33.58
90.30-P	8	1000	33°24.5'	117°55.0'	340	320°	2	cloudy	smooth	17.38	33.57
90.37-P	8	1400	33°10.0'	118°23.0'	630	140°	4	cloudy	rough	17.10	33.58
90.45-P	8	1908	32°57.5'	118°54.0'	950	270°	3	partly cloudy	rough	14.32	33.81
90.50-P	8	2245	32°46.5'	119°19.5'	325	300°	4	clear	rough	13.06	33.69
90.55-P	9	0230	32°34.5'	119°37.0'	620	300°	6	clear	rough	13.66	33.61
90.60-P	9	0550	32°21.5'	119°57.0'	450	300°	6	clear	rough	14.08	33.50
90.65-P	9	1000	32°12.5'	120°17.0'	-	320°	7	clear	very rough	13.53	33.55
90.70-P	9	1330	32°02.0'	120°36.0'	-	320°	7	clear	high	15.35	33.42
90.75-P	9	1645	31°54.0'	120°57.0'	-	320°	6	clear	very rough	15.45	33.42
90.80-P	9	1950	31°50.5'	121°08.0'	-	320°	6	cloudy	very rough	15.08	33.43
90.85-P	9	2345	31°39.0'	121°27.0'	-	320°	5	cloudy	very rough	15.58	33.40
90.90-P	10	0325	31°27.5'	121°53.5'	-	320°	5	cloudy	rough	15.75	33.40

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

Station	Date	Time GCT	Latitude North	Longitude West	Sounding (fm)	Wind		Weather	Sea	10 Meters	
						Dir	Force			T	S
93.27-P	VII-12	0215	32°55.5'	117°19.0'	-	250°	3	overcast	moderate	19.74	33.64
93.30-P	12	0020	32°50.5'	117°30.0'	-	250°	4	overcast	moderate	18.24	33.62
93.35-P	11	2121	32°41.5'	117°49.5'	-	250°	4	overcast	moderate	17.19	33.59
93.40-P	11	1830	32°31.5'	118°08.5'	-	280°	4	overcast	rough	16.74	33.68
93.45-P	11	1520	32°22.0'	118°30.0'	-	320°	4	overcast	rough	16.10	33.75
93.50-P	11	1230	32°12.0'	118°51.5'	-	320°	5	overcast	rough	15.50	33.66
93.55-P	11	0846	32°02.0'	119°12.5'	-	320°	5	overcast	rough	14.01	33.68
93.60-P	11	0530	31°52.0'	119°33.5'	-	300°	7	overcast	very rough	14.38	33.48
93.65-P	11	0215	31°42.5'	119°54.0'	2100	320°	5	overcast	very rough	15.34	33.50
93.70-P	10	2310	31°32.5'	120°16.0'	2000+	310°	5	overcast	rough	15.48	33.51
93.75-P	10	1845	31°21.0'	120°38.0'	-	320°	6	overcast	rough	15.56	33.50
93.80-P	10	1515	31°10.0'	120°58.0'	2200+	320°	5	cloudy	very rough	15.20	33.47
93.85-P	10	1210	31°00.5'	121°18.0'	-	320°	5	cloudy	very rough	15.78	33.41
93.90-P	10	0845	30°50.0'	121°35.0'	-	320°	5	cloudy	very rough	16.04	33.42
97.30-P	13	0100	32°15.0'	117°09.5'	42	270°	3	overcast	moderate	13.68	33.49
97.32-P	13	0245	32°11.5'	117°16.5'	717	270°	3	overcast	moderate	17.20	33.57
97.35-P	13	0530	32°06.0'	117°32.0'	900	270°	3	overcast	moderate	17.47	33.59
97.40-P	13	0900	31°57.5'	117°54.0'	-	330°	4	overcast	moderate	16.00	33.69
97.45-P	13	1230	31°49.0'	118°16.0'	960	320°	3	overcast	slight	16.20	33.71

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

Station	Date	Time GCT	Latitude North	Longitude West	Sounding (fm)	Wind		Weather	Sea	10 Meters	
						Dir	Force			T	S
97.50-P	VII-13	1600	31°40.0'	118°38.0'	1250+	290°	3	overcast	moderate	15.42	33.71
97.55-P	13	1930	31°30.0'	119°00.0'	-	290°	3	overcast	moderate	14.80	33.54
97.60-P	13	2230	31°21.5'	119°18.5'	1500	310°	3	cloudy	moderate	15.64	33.50
97.65-P	14	0215	31°10.0'	119°39.5'	2000	320°	3	overcast	slight	15.80	33.49
97.70-P	14	0540	30°58.5'	120°00.0'	2000+	320°	3	overcast	moderate	15.78	33.50
97.75-P	14	0910	30°46.5'	120°23.0'	2000+	310°	3	overcast	moderate	15.60	33.53
97.80-P	14	1230	30°35.5'	120°43.0'	2000+	310°	4	overcast	moderate	16.18	33.59
97.85-P	14	1540	30°24.5'	121°03.0'	2000+	320°	2	overcast	slight	16.46	33.53
97.90-P	14	1800	30°19.5'	121°12.5'	2000+	290°	2	overcast	slight	16.50	33.53
100.29-P	16	1725	31°42.0'	116°43.0'	100	320°	4	overcast	moderate	12.08	33.51
100.30-P	16	1620	31°40.5'	116°45.5'	300	320°	4	overcast	rough	12.61	33.48
100.35-P	16	1330	31°28.0'	116°56.0'	685	310°	6	overcast	rough	16.82	33.60
100.40-P	16	0910	31°17.5'	117°19.0'	1050	310°	6	clear	rough	17.10	33.63
100.45-P	16	0600	31°08.0'	117°41.0'	850	320°	5	partly cloudy	rough	16.62	33.51
100.50-P	16	0215	30°58.5'	118°03.0'	950	320°	4	cloudy	rough	16.51	33.54
100.55-P	15	2300	30°49.5'	118°24.5'	1300	310°	4	overcast	rough	16.58	33.50
100.60-P	15	1945	30°39.5'	118°45.0'	2000+	330°	4	cloudy	rough	16.49	33.52
100.65-P	15	1600	30°30.5'	119°06.0'	2000+	330°	3	cloudy	rough	16.54	33.53
100.70-P	15	1250	30°21.0'	119°27.5'	2000+	330°	3	overcast	rough	16.42	33.56

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

Station	Date	Time GCT	Latitude North	Longitude West	Sounding (fm)	Wind		Weather	Sea	10 Meters	
						Dir	Force			T	S
100.75-P	VII-15	0915	30°12.0'	119°48.0'	2000+	320°	3	overcast	moderate	16.70	33.53
100.80-P	15	0545	30°03.0'	120°09.0'	2000+	320°	4	cloudy	moderate	16.52	33.50
100.85-P	15	0210	29°53.0'	120°30.0'	2000+	330°	4	cloudy	moderate	16.70	33.51
100.90-P	14	2310	29°44.0'	120°50.5'	2000+	330°	4	cloudy	slight	16.30	33.48
103.30-P	16	2235	31°05.5'	116°26.0'	42	310°	3	partly cloudy	rough	13.80	33.48
103.35-P	17	0125	30°57.0'	116°45.0'	1000	310°	4	partly cloudy	rough	17.14	33.62
103.40-P	17	0430	30°48.0'	117°04.0'	850	320°	5	fog	rough	16.78	33.68
103.45-P	17	0800	30°39.0'	117°24.0'	600a)	280°	5	missing	rough	16.72	33.68
103.50-P	17	1120	30°30.0'	117°43.0'	1800	310°	6	missing	rough	16.45	33.53
103.55-P	17	1445	30°21.5'	118°03.0'	1150	320°	6	clear	very rough	16.61	33.51
103.60-P	17	1800	30°12.5'	118°22.5'	1800	320°	5	clear	very rough	17.82	33.49
103.65-P	17	2120	30°04.0'	118°41.0'	1800b)	320°	6	clear	very rough	16.84	33.48
103.70-P	20	1600	29°42.5'	118°42.0'	1800	360°	5	overcast	rough	16.75	33.40
103.75-P	20	1230	29°36.5'	119°07.5'	1850	360°	4	overcast	rough	17.20	33.55
103.80-P	20	0940	29°29.0'	119°32.5'	1950	360°	4	missing	rough	16.61	33.46
103.85-P	20	0545	29°21.0'	119°57.0'	2000	350°	6	overcast	rough	16.98	33.58

a) Sounding varies from 600 to 1200 fathoms.

b) Sounding varies from 1800 to 1900 fathoms.

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

Station	Date	Time GCT	Latitude North	Longitude West	Sounding (fm)	Wind		Weather	Sea	10 Meters	
						Dir	Force			T	S
103.90-P	VII-20	0205	29°11.0'	120°21.0'	2000	320°	5	overcast	rough	17.11	33.61
107.32-B	22	1435	30°26.0'	116°11.0'	365	320°	3	overcast	moderate	16.15	33.48
107.35-B	22	1610	30°20.0'	116°23.0'	1000	320°	3	overcast	moderate	17.40	33.58
107.40-B	22	1908	30°10.5'	116°43.5'	1440	320°	3	cloudy	moderate	17.54	33.57
107.45-B	22	2205	30°00.0'	117°03.0'	1100	320°	3	cloudy	moderate	17.48	33.56
107.50-B	23	0105	29°50.5'	117°23.5'	1660	320°	3	cloudy	moderate	17.56	33.66
107.55-B	23	0340	29°40.0'	117°44.0'	1800	320°	3	overcast	moderate	16.99	33.62
107.60-B	23	0640	29°31.0'	118°03.0'	2050	320°	3	overcast	moderate	16.80	33.48
107.65-P	19	0430	29°20.5'	118°22.5'	1900	320°	3	missing	rough	17.32	33.47
107.70-P	19	0750	29°12.5'	118°43.5'	2000+	320°	3	cloudy	rough	17.80	33.71
107.75-P	19	1130	29°05.0'	119°02.5'	2000	330°	4	cloudy	rough	17.69	33.69
107.80-P	19	1430	28°57.0'	119°22.0'	2100	330°	4	overcast	very rough	17.58	33.71
107.85-P	19	1745	28°50.0'	119°41.5'	2000	340°	4	overcast	very rough	17.95	33.73
107.90-P	19	2030	28°42.0'	120°02.0'	2000+	340°	4	overcast	very rough	18.12	33.77
110.33-B	22	0850	29°50.5'	115°52.0'	50	320°	3	overcast	moderate	16.76	33.47
110.35-B	22	0635	29°46.5'	116°00.0'	680	320°	3	overcast	moderate	17.69	33.56
110.40-B	22	0440	29°36.5'	116°19.5'	1380	320°	3	cloudy	moderate	17.77	33.58
110.45-B	22	0145	29°26.0'	116°39.0'	700	320°	3	cloudy	moderate	17.64	33.60
110.50-B	21	2255	29°16.5'	116°59.0'	2000	320°	3	cloudy	moderate	17.56	33.60

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

Station	Date	Time GCT	Latitude North	Longitude West	Sounding (fm)	Wind		Weather	Sea	10 Meters	
						Dir	Force			T	S
110.55-B	VII-21	1950	29°06.0'	117°18.0'	2000	320°	3	cloudy	moderate	16.96	33.55
110.60-B	21	1705	28°56.5'	117°39.0'	2050	320°	3	cloudy	moderate	17.35	33.61
110.65-B	21	1405	28°46.0'	117°59.0'	2000+	320°	3	cloudy	moderate	17.04	33.50
110.70-B	21	1115	28°36.5'	118°18.0'	2000+	330°	2	overcast	moderate	16.69	33.51
110.75-B	21	0725	28°26.0'	118°38.0'	2000+	330°	2	overcast	moderate	17.30	33.58
110.80-B	21	0438	28°16.5'	118°56.5'	2200	330°	2	overcast	moderate	17.91	33.60
110.85-B	21	0140	28°06.0'	119°17.0'	2300	330°	2	overcast	moderate	17.88	33.59
110.90-B	20	2300	27°56.0'	119°36.0'	2200	330°	2	overcast	moderate	17.68	33.67
113.30-B	19	1120	29°22.5'	115°17.5'	30	320°	1	clear	moderate	15.67	33.57
113.35-B	19	1410	29°12.0'	115°39.0'	700	320°	2	overcast	moderate	17.51	33.51
113.40-B	19	1725	29°02.0'	115°58.5'	1000	320°	1	cloudy	moderate	17.62	33.51
113.45-B	19	1956	28°52.0'	116°18.0'	1200	calm		partly cloudy	moderate	18.57	33.58
113.50-B	19	2304	28°42.0'	116°37.5'	2050	300°	1	cloudy	moderate	18.14	33.58
113.55-B	20	0138	28°32.0'	116°57.0'	2000	320°	1	overcast	moderate	17.98	33.58
113.60-B	20	0443	28°22.0'	117°16.5'	2100	330°	1	overcast	moderate	18.38	33.62
113.65-B	20	0735	28°12.0'	117°36.0'	2000+	330°	1	overcast	moderate	17.97	33.59
113.70-B	20	1040	28°02.0'	117°55.5'	2000+	330°	1	overcast	moderate	18.02	33.62
113.75-B	20	1320	27°52.0'	118°17.0'	2000+	330°	2	overcast	moderate	17.92	33.59
113.80-B	20	1630	27°41.0'	118°35.5'	2200	330°	2	overcast	moderate	18.22	33.59

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

Station	Date	Time GCT	Latitude North	Longitude West	Sounding (fm)	Wind		Weather	Sea	10 Meters	
						Dir	Force			T	S
117.26-B	VII-19	0600	28°56.0'	114°41.0'	40	330°	1	missing	moderate	16.70	33.58
117.30-B	19	0355	28°48.0'	114°56.5'	52	320°	1	cloudy	moderate	16.68	33.60
117.35-B	19	0050	28°38.0'	115°16.0'	110	300°	1	cloudy	moderate	14.92	33.42
117.40-B	18	2140	28°28.0'	115°35.5'	540	330°	1	cloudy	moderate	18.05	33.51
117.45-B	18	1835	28°18.0'	115°55.0'	1750	calm		overcast	moderate	18.17	33.55
117.50-B	18	1420	28°08.0'	116°15.0'	2000+	320°	2	overcast	moderate	17.40	33.56
117.55-B	18	1135	27°58.0'	116°34.0'	2000+	320°	2	overcast	moderate	17.18	33.56
117.60-B	18	0830	27°47.5'	116°54.0'	2000+	320°	2	cloudy	moderate	17.95	33.60
117.65-B	18	0530	27°37.0'	117°13.5'	2150	340°	2	cloudy	moderate	18.19	33.59
117.70-B	18	0225	27°28.0'	117°33.0'	2200	340°	3	cloudy	moderate	18.09	33.57
117.75-B	17	2340	27°17.0'	117°53.0'	2300	320°	3	cloudy	moderate	18.47	33.61
117.80-B	17	2058	27°08.0'	118°11.0'	2460	320°	4	partly cloudy	rough	18.52	33.61
120.25-B	16	0715	28°23.0'	114°14.5'	26	270°	1	missing	missing	17.48	33.64
120.30-B	16	1030	28°13.0'	114°34.0'	42	200°	2	missing	missing	16.18	33.58
120.35-B	16	1312	28°03.0'	114°54.0'	46	230°	2	partly cloudy	moderate	15.98	33.58
120.40-B	16	1600	27°56.5'	115°14.0'	25	310°	4	partly cloudy	moderate	14.17	33.71
120.45-B	16	1845	27°43.0'	115°33.0'	1180	300°	4	cloudy	moderate	16.16	33.59
120.50-B	16	2145	27°33.0'	115°53.0'	2150	320°	3	cloudy	rough	17.02	33.64
120.55-B	17	0050	27°24.0'	116°12.0'	1995	320°	3	overcast	moderate	16.88	33.54

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

Station	Date	Time GCT	Latitude North	Longitude West	Sounding (fm)	Wind		Weather	Sea	10 Meters	
						Dir	Force			T	S
120.60-B	VII-17	0345	27°13.0'	116°32.0'	2000+	320°	2	partly cloudy	moderate	17.92	33.58
120.70-B	17	0910	26°52.0'	117°10.0'	2000	320°	2	clear	moderate	17.52	33.57
120.80-B	17	1445	26°32.0'	117°48.0'	2000+	320°	2	cloudy	moderate	18.50	33.64
123.37-B	13	2040	27°24.0'	114°39.5'	38	330°	2	partly cloudy	slight	12.71	33.86
123.40-B	13	1825	27°18.0'	114°51.5'	300	330°	2	partly cloudy	moderate	15.76	33.61
123.45-B	13	1530	27°08.0'	115°11.0'	2320	330°	2	cloudy	moderate	15.74	33.58
123.50-B	13	1225	26°58.0'	115°31.0'	1990	330°	2	cloudy	moderate	15.73	33.55
123.55-B	13	0910	26°48.0'	115°50.0'	2000+	330°	2	cloudy	moderate	16.98	33.58
123.60-B	13	0625	26°38.5'	116°09.0'	2000+	320°	3	missing	moderate	16.70	33.55
127.34-B	12	1010	26°55.5'	114°06.0'	42	360°	4	clear	moderate	12.44	33.97
127.40-B	12	1355	26°44.0'	114°30.0'	2000	320°	3	overcast	moderate	17.04	33.58
127.45-B	12	1610	26°33.0'	114°49.0'	2000+	320°	3	overcast	moderate	16.28	33.52
127.50-B	12	1855	26°23.5'	115°08.0'	2150	320°	4	overcast	moderate	16.45	33.55
127.55-B	12	2155	26°13.0'	115°27.0'	2200	320°	4	overcast	moderate	17.08	33.62
127.60-B	13	0055	26°03.0'	115°47.0'	2000+	320°	3	overcast	moderate	17.30	33.62
130.30-B	12	0235	26°29.0'	113°29.0'	43	280°	3	partly cloudy	moderate	13.14	34.05
130.35-B	12	0010	26°20.0'	113°46.0'	130	280°	2	partly cloudy	slight	14.14	33.77
130.40-B	11	2040	26°05.0'	114°07.0'	350	300°	2	cloudy	moderate	15.06	33.50
130.50-B	11	1525	25°49.0'	114°46.0'	1840	300°	4	overcast	moderate	16.82	33.53

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

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Station	Date	Time GCT	Latitude North	Longitude West	Sounding (fm)	Wind		Weather	Sea	10 Meters	
						Dir	Force			T	S
130.60-B	VII-11	0935	25°29.0'	115°24.0'	2200	320°	4	missing	moderate	18.44	33.80
133.25-B	10	1150	26°04.5'	112°48.0'	45	260°	1	missing	slight	14.86	34.09
133.30-B	10	1430	25°54.5'	113°07.5'	115	270°	2	overcast	slight	15.86	33.86
133.40-B	10	1945	25°35.0'	113°45.0'	1300	270°	2	partly cloudy	slight	17.10	33.58
133.50-B	11	0155	25°14.0'	114°24.0'	2200	240°	4	overcast	moderate	17.08	33.57
137.23-B	10	0625	25°34.0'	112°19.0'	40	260°	1	overcast	slight	14.30	33.93
137.30-B	10	0240	25°20.5'	112°45.0'	400	280°	3	cloudy	slight	15.80	33.86
137.40-B	9	2005	25°00.0'	113°23.5'	1200	310°	2	overcast	moderate	17.10	33.57
137.50-B	9	1400	24°37.0'	114°09.0'	1980	310°	4	overcast	moderate	17.50	33.61

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