UNIVERSITY OF CALIFORNIA SCRIPPS INSTITUTION OF OCEANOGRAPHY

data report

PHYSICAL AND CHEMICAL DATA

CalCOFI Cruise 7201
3 - 26 January 1972

and

CalCOFI Cruise 7202
1 - 27 February 1972

SIO Reference 80-21
15 October 1980

UNIVERSITY OF CALIFORNIA

SCRIPPS INSTITUTION OF OCEANOGRAPHY

PHYSICAL AND CHEMICAL DATA

CalCOFI Cruise 7201
3 - 26 January 1972

and

CalCOFI Cruise 7202
1 - 27 February 1972

Sponsored by

Marine Research Committee

SIO Reference 80-21
15 October 1980

Approved for distribution:

W. A. Nierenberg

W. A. Nierenberg, Director

CONTENTS

Introduction 3

Literature Cited 7

Cruise 7201

List of Figures 10

Personnel 20

Tabulated Data 21

Cruise 7202

List of Figures 88

Personnel 98

Tabulated Data 99

Distribution List 191

INTRODUCTION

The data in this report was collected during Cruises 7201* and 7202 of the California Cooperative Oceanic Fisheries Investigations (CalCOFI) program aboard the RV David Starr Jordan of the National Marine Fisheries Service, the RV Alexander Agassiz of the Scripps Institution of Oceanography and the RV Alaska of the California Department of Fish and Game. The RV Alejandro de Humboldt of the Instituto Nacional de Pesca of the Mexican Federal Government occupied the same southern CalCOFI lines as the Jordan during February but no data was included in this report. The report preceding this one in the series was SIO Ref. 79-30 which included data for 1970 and 1971.

This data was collected and processed mainly by personnel of the Data Collection and Processing Group (DCPG, MLR)**, Scripps Institution of Oceanography. The cruises were also used as a technical training program for personnel of the Sea Grant and the GEOSECS departments.

STANDARD PROCEDURES

Hydrographic Cast Data

The hydrographic casts consisted of 12 to 18 Nansen bottles with the maximum sampling depth at most stations 1200 meters, bottom depth permitting. Temperature, salinity, oxygen and nutrients were determined for all depths on most stations. The Alaska was equipped with only 2 Nansen bottles for calibration of the STD.

On STD lowerings where hydrographic casts were not made, a Nansen bottle was usually placed on the wire a few meters above the STD and another bottle was lowered to a depth of approximately 10 meters. Temperature, salinity and nutrients were determined for most of the 10 meter samples from the Jordan and the Agassiz.

In general, paired protected reversing thermometers were used to determine temperatures which were recorded to hundredths of a Celsius degree. Surface temperatures from "bucket" thermometers and temperatures determined using unprotected (pressure) thermometers were recorded to tenths of a degree. Sample bottles used below 100 meters were equipped with unprotected thermometers for depth determination.

---

* The first two digits represent the year and the second digits the month of the cruise. The CalCOFI station designations have been in use for over twenty years. The first part specifies a line normal to the general trend of the coast line (CalCOFI line). The second part specifies a station position relative to the coast on the CalCOFI line.

** Now the Physical and Chemical Oceanographic Data Facility (PACODF).

The salinity samples from the 10 meter bottles on the Alaska were determined by an Australian Auto Lab inductive salinometer after the completion of the cruise. Salinity samples for both cruises on the Jordan were determined mainly by a Bissett Berman (now Grundy Environmental Systems, Inc.) inductive salinometer although a few stations were determined using an Auto Lab salinometer.

Problems were encountered with salinity determination on both cruises of the Agassiz, caused partly by incorrect handling of the samples and partly by difficulty in operation of the salinometers used. The salinity values on several stations were tabulated only to hundredths because of high drift occurring on the inductive salinometers and poor standardization on the University of Washington conductive bridge.

The salinity values were recorded and are reported to three decimal places, provided accepted standards were met. If only one determination per sample was obtained, or there was doubt concerning the accuracy of the analytical results, the salinities are reported to two decimal places. All STD salinities are tabulated to hundredths.

Dissolved oxygen was determined by the Winkler method as modified by Carpenter (1965), using the equipment and procedure outlined by Anderson (1971).

Phosphate, silicate, nitrite, and nitrate were determined using a standard Beckman Model DU spectrophotometer. Reactive phosphate was done using the method of Murphy and Riley (1962), with the specific procedure outlined by Anderson (1971), reactive silicate by the method of Strickland and Parsons (1968), nitrate by the method of Wood et al. (1967), and nitrite by the method of Bendschneider and Robinson (1952). The specific procedures used for silicate, nitrate and nitrite are outlined in Marine Technician handbooks in preparation.

Phytoplankton pigment and production data resulting from these cruises has been reported earlier by Owen (1974).

The observed data has been evaluated using the method described by Klein (1973). This involves consideration of their variation as functions of density or depth and their relations to each other, and comparisons with adjacent observations.

In situ Salinity/Temperature/Depth Recorder (STD) Data

A Bissett Berman Model 9006 STD was used for lowerings by both the Jordan and the Agassiz on both cruises. The Agassiz also used a Bissett

Berman Model 9040 CSTD for a few lowerings during repair of the other model. A self-contained Bissett Berman Model 9060 STD was used on the Alaska which was not equipped to use the larger system.

The STD temperature data agreed closely with the calibration samples for the cruises of the Jordan and Agassiz. Corrections to the salinity data for both ships were necessary with the largest correction being -0.14 ‰ at 1000 meters on the 7201 Agassiz cruise. Data from the self-contained STD used on the Alaska was digitized from the graphic recordings. The styli failed to raise at the end of the recordings so that double traces were made causing difficulty in digitizing and decreasing greatly the accuracy of the data. No correction was applied to the temperature digitized to the nearest 0.05°C but an off-set correction of -0.25 ‰ was applied to the salinity data digitized to the nearest 0.01 ‰.

TABULATED DATA

The time reported is Greenwich Mean Time. For STD lowerings it is the "start down" time and for bottle casts it is the time of messenger release. When more than one cast was lowered on a station, the messenger times for the first and last casts are given. Multiple casts, excluding the surface cast, are indicated by a footnote letter following the observed depth.

Bottom depths, determined acoustically, have been corrected using Matthews (1939) tables and are reported in meters. The weather and dominant waves are coded using the National Oceanographic Data Center (NODC) method.

Data for all cruises presented in this report was obtained by bottle casts and by the STD, and appear in two forms:

1) Data from the sample bottles appears with the observed levels of depth on the left of a page. Temperature, salinity and oxygen are interpolated from the observations at standard levels of depth on the right of the page. Computed values of thermosteric anomaly (DT) are included with the observed levels and computed values of sigma-t (SIGT), thermosteric anomaly (DT) and geopotential anomaly (DD) are included with the interpolated levels.

2) Data at standard levels of depth from the STD lowerings appears on the right of a page with computed values of sigma-t, thermosteric anomaly and geopotential anomaly included.

The same parameters have been tabulated in this report as in previous reports. The decimal has been omitted from the CalCOFI station number so station 90.65 appears in the tabulated data as 90065. The column headings are to be interpreted as follows:

Z	Depth	Meters
T	Temperature	°C
S	Salinity	‰
O2	Dissolved oxygen	ml/L
PO4	"Reactive" inorganic phosphate-phosphorous	µg at/L
SiO3	"Reactive" inorganic silicate-silicon	µg at/L
NO2	"Reactive" nitrite-nitrogen	µg at/L
NO3	"Reactive" nitrate-nitrogen	µg at/L
DT	δ_T = Thermosteric anomaly	cl/ton
SIGT	σ_t = $(\rho_{s,t,0}-1)10^3$ where $\rho_{s,t,0}$ is the density the parcel would have if moved isothermally to the sea surface.	g/L
DD	Geopotential anomaly, referred to the sea surface.	dyn. meters

FOOTNOTES

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

P: After depth value indicates the Nansen bottles posttripped.

U: Uncertain value. Values which are not used in interpolation because they seem to be in error without apparent reason.

LITERATURE CITED

Anderson, G. C., compiler, 1971. "Oxygen Analysis", Marine Technician's Handbook, SIO Ref. No. 71-8, Sea Grant Pub. No. 9.

Anderson, G. C., compiler, 1971. "Phosphate Analysis", Marine Technician's Handbook, SIO Ref. No. 71-10, Sea Grant Pub. No. 11.

AutoLab Ind. Pty. Ltd., Sydney, 1960. Inductively Coupled Salinometer MK 111, Model 601, Operating Inst. and Ills. Parts List.

Bendschneider, K., and R. J. Robinson, 1952. A new spectrophotometric method for the determination of nitrite in sea water. *J. Mar. Res., 11:* 87-96.

Bissett Berman Corporation, 1965. Instruction Manual, *In situ* Salinity/Temperature/Depth Monitoring and Recording System, Model 9006.

Bissett Berman Corporation, 1967. Operation and Maintenance Manual, Laboratory Salinometer Model 6220.

Bissett Berman Corporation, 1968. Instruction Manual, Self-contained Salinity/Temperature/Depth Recording System, Model 9060.

Bissett Berman Corporation, 1970. Instruction Manual, Laboratory Salinometer Model 6230N.

Carpenter, J. H., 1965. The Chesapeake Bay Institute technique for Winkler dissolved oxygen method. *Limnol. and Oceanogr., 10:* 141-143.

Holm-Hansen, O., C. J. Lorenzen, R. W. Holmes, and J. D. H. Strickland, 1965. Fluorometric determination of chlorophyll. *J. Cons. perm. int. Explor. Mer, 30:* 3-15.

Klein, Hans T., 1973. A new technique for processing physical oceanographic data. SIO Ref. No. 73-14.

Matthews, D. J., 1939. Tables of the velocity of sound in pure water and seawater for use in echo-sounding and sound-ranging. Second Edition. Hydrographic Department, Admiralty, H. D. 282, 52 pp.

Murphy, J., and J. P. Riley, 1962. A modified single solution method for the determination of phosphate in natural waters. *Anal. Chem. Acta, 27*: 31.

Owen, R. W. Jr., and C. K. Sanchez, 1974. Phytoplankton Pigment and Production Measurements in the California Current Region, 1969-72. U. S. Dept. of Commerce, Nov. 1974. Data Rep. 91.

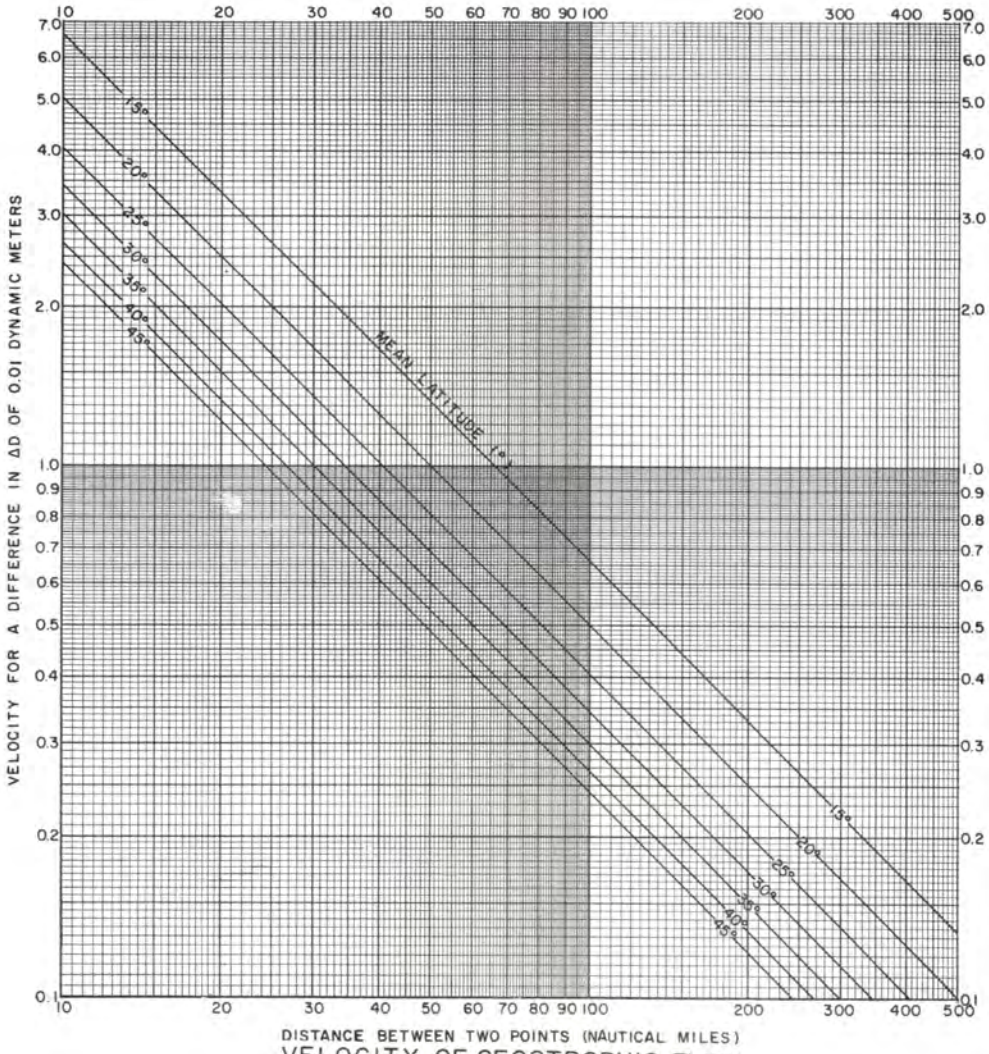
Plessey Environmental Systems, 1974. Instruction Manual, *In situ* Salinity/Temperature/Depth Monitoring and Recording System, Model 9040.

Strickland, J. D. H., and T. R. Parsons, 1968. A practical handbook of seawater analysis. *Fish. Res. Brd. Can., Bull., 167*: 311 pp.

Sverdrup, H. U., M. W. Johnson, and R. H. Fleming, 1942. *The Oceans: their Physics, Chemistry, and General Biology*. Prentice-Hall, New Jersey, 1087 pp.

add University of Washington, 1960. Department of Oceanography Technical Report No. 66, U. W. Ref. 60-18.

Wood, E. D., F. A. J. Armstrong, and F. A. Richards, 1967. Determination of nitrate in sea water by cadmium-copper reduction to nitrite. *J. Mar. Biol. Assn. U. K., 47*: 23-31.



VELOCITY OF GEOSTROPHIC FLOW
(NAUTICAL MILES PER DAY)

cm/sec	0	1	2	3	4	5	6	7	8	9
0	KNOTS / NM/DAY	0.02 / 0.47	0.04 / 0.93	0.06 / 1.40	0.08 / 1.86	0.10 / 2.33	0.12 / 2.80	0.14 / 3.26	0.16 / 3.73	0.17 / 4.20
10	0.19 / 4.66	0.21 / 5.13	0.23 / 5.59	0.25 / 6.06	0.27 / 6.53	0.29 / 6.99	0.31 / 7.46	0.33 / 7.93	0.35 / 8.39	0.37 / 8.86
20	0.39 / 9.32	0.41 / 9.79	0.43 / 10.26	0.45 / 10.72	0.47 / 11.19	0.49 / 11.66	0.51 / 12.12	0.52 / 12.59	0.54 / 13.05	0.56 / 13.52
30	0.58 / 13.99	0.60 / 14.45	0.62 / 14.92	0.64 / 15.38	0.66 / 15.85	0.68 / 16.32	0.70 / 16.78	0.72 / 17.25	0.74 / 17.72	0.76 / 18.18
40	0.78 / 18.65	0.80 / 19.11	0.82 / 19.58	0.84 / 20.05	0.85 / 20.51	0.87 / 20.98	0.89 / 21.45	0.91 / 21.91	0.93 / 22.38	0.95 / 22.84
50	0.97 / 23.31	0.99 / 23.78	1.01 / 24.24	1.03 / 24.71	1.05 / 25.17	1.07 / 25.64	1.09 / 26.11	1.11 / 26.57	1.13 / 27.04	1.15 / 27.51
60	1.17 / 27.98	1.18 / 28.44	1.20 / 28.90	1.22 / 29.37	1.24 / 29.84	1.26 / 30.30	1.28 / 30.77	1.30 / 31.24	1.32 / 31.70	1.34 / 32.17
70	1.36 / 32.63	1.38 / 33.10	1.40 / 33.57	1.42 / 34.03	1.44 / 34.50	1.46 / 34.96	1.48 / 35.43	1.50 / 35.90	1.52 / 36.36	1.53 / 36.83
80	1.55 / 37.30	1.57 / 37.76	1.59 / 38.23	1.61 / 38.69	1.63 / 39.16	1.65 / 39.63	1.67 / 40.09	1.69 / 40.56	1.71 / 41.03	1.73 / 41.49
90	1.75 / 41.96	1.77 / 42.42	1.79 / 42.89	1.81 / 43.36	1.83 / 43.82	1.85 / 44.29	1.86 / 44.76	1.88 / 45.22	1.90 / 45.69	1.92 / 46.15
100	1.94 / 46.62	1.96 / 47.09	1.98 / 47.55	2.00 / 48.02	2.02 / 48.48	2.04 / 48.95	2.06 / 49.42	2.08 / 49.88	2.10 / 50.35	2.12 / 50.82

CONVERSION TABLE
(CENTIMETERS / SECOND – KNOTS – NAUTICAL MILES / DAY)

1 cm/sec = 0.019 kts = 0.466 NAUTICAL MILES / DAY
1 kt = 24 NAUTICAL MILES / DAY = 51.48 cm/sec
1 NAUTICAL MILE / DAY = 0.042 kts = 2.14 cm/sec

FIGURES

Cruise 7202

1. CalCOFI Cruise 7202, station positions
2. Horizontal distribution of dynamic height anomaly (0 over 500 d-bar)
3. Horizontal distribution of dynamic height anomaly (200 over 500 d-bar)
4. Horizontal distribution of temperature at 10 meters
5. Horizontal distribution of salinity at 10 meters
6. Horizontal distribution of thermosteric anomaly at 10 meters
7. Horizontal distribution of temperature at 200 meters
8. Horizontal distribution of salinity at 200 meters
9. Horizontal distribution of thermosteric anomaly at 200 meters

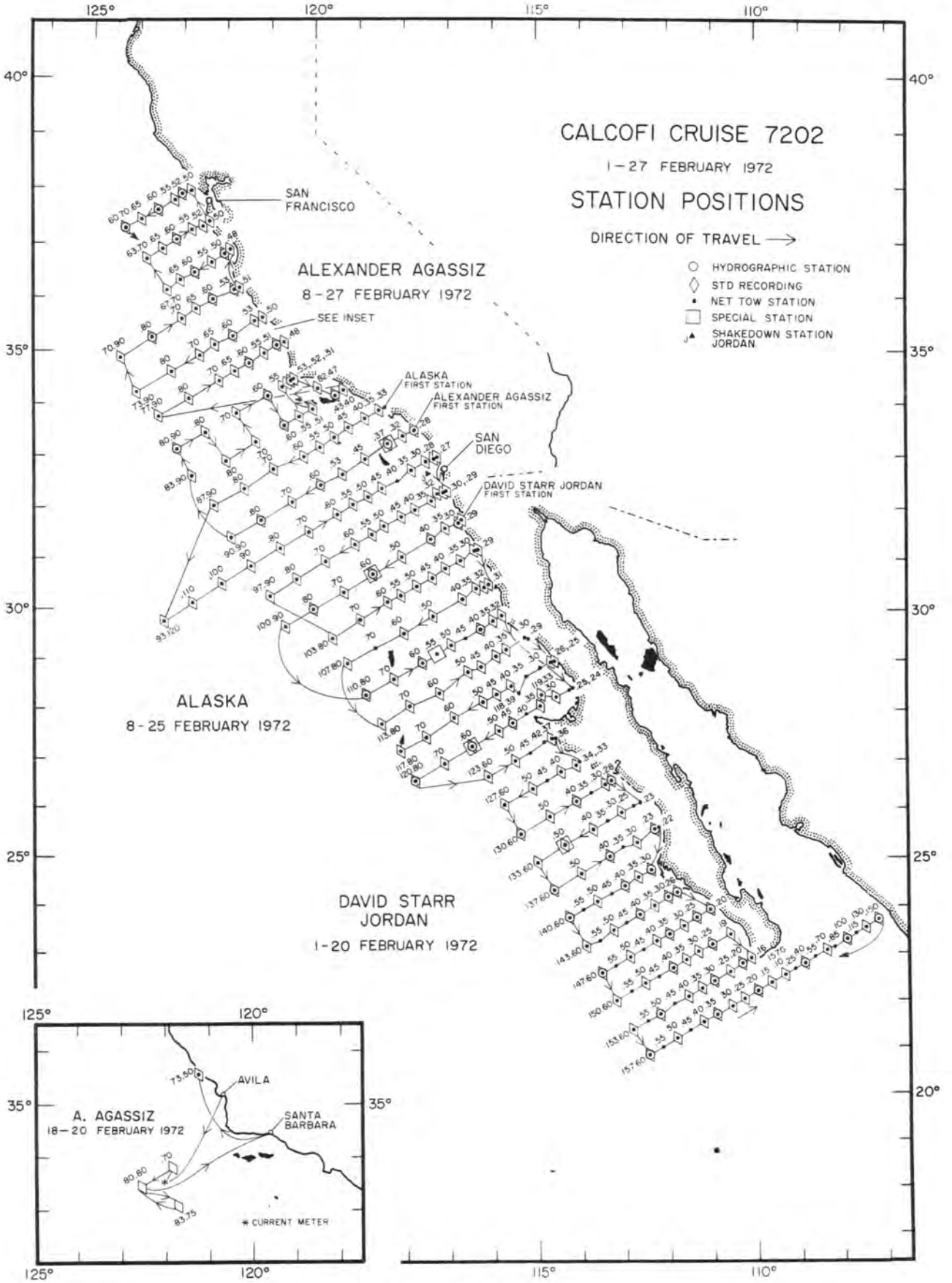

CALCOFI CRUISE 7202
1-27 FEBRUARY 1972
STATION POSITIONS
DIRECTION OF TRAVEL
HYDROGRAPHIC STATION
STD RECORDING
NET TOW STATION
SPECIAL STATION
SHAKEDOWN STATION JORDAN
SAN FRANCISCO
ALEXANDER AGASSIZ
8-27 FEBRUARY 1972
SEE INSET
ALASKA FIRST STATION
ALEXANDER AGASSIZ FIRST STATION
SAN DIEGO
DAVID STARR JORDAN FIRST STATION
ALASKA
8-25 FEBRUARY 1972
DAVID STARR JORDAN
1-20 FEBRUARY 1972
A. AGASSIZ
18-20 FEBRUARY 1972
AVILA
SANTA BARBARA
* CURRENT METER

FIGURE 1

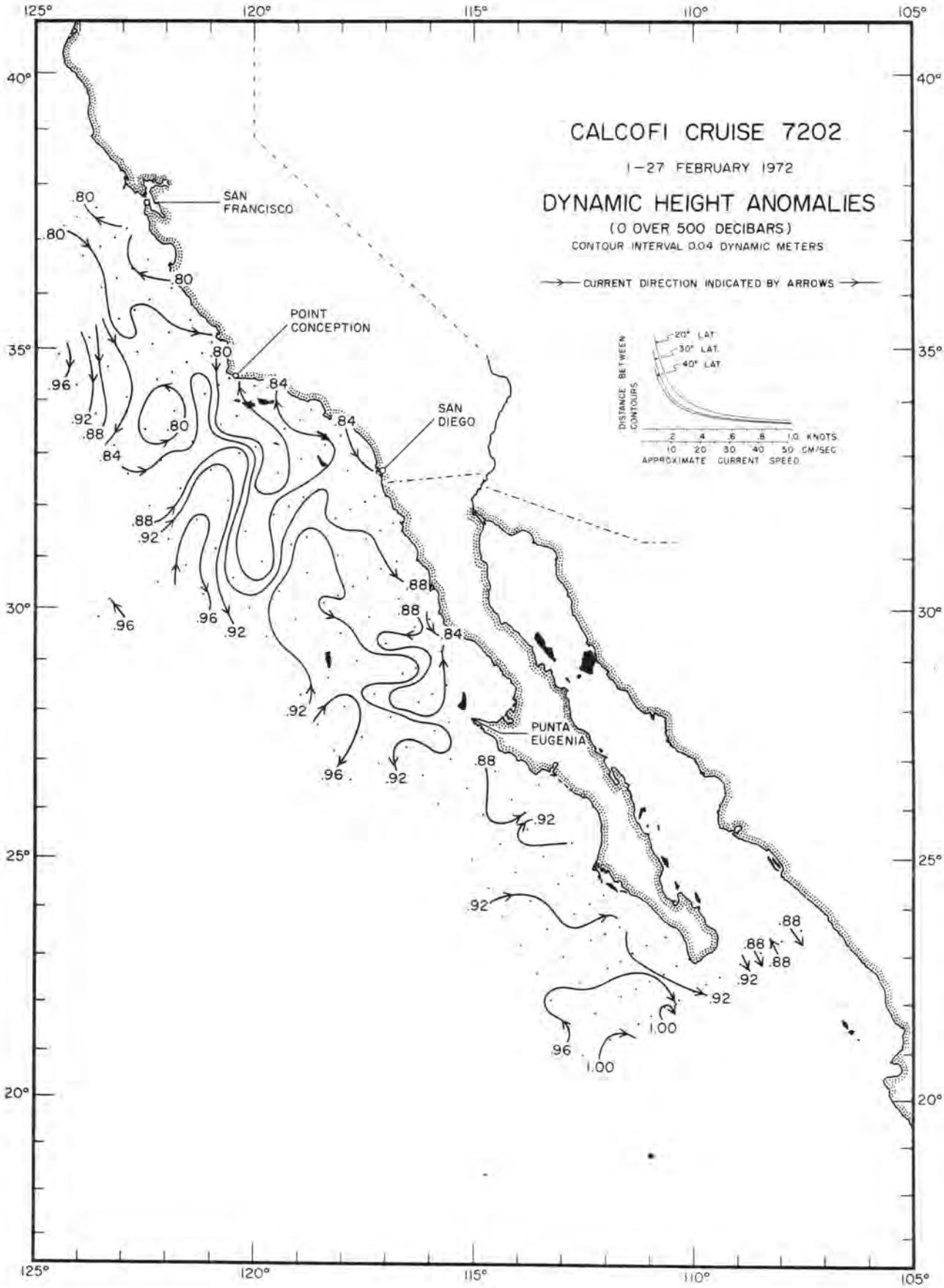

CALCOFI CRUISE 7202
1–27 FEBRUARY 1972
DYNAMIC HEIGHT ANOMALIES
(0 OVER 500 DECIBARS)
CONTOUR INTERVAL 0.04 DYNAMIC METERS
CURRENT DIRECTION INDICATED BY ARROWS
DISTANCE BETWEEN CONTOURS
20° LAT.
30° LAT.
40° LAT.
.2 .4 .6 .8 1.0 KNOTS
10 20 30 40 50 CM/SEC
APPROXIMATE CURRENT SPEED
SAN FRANCISCO
POINT CONCEPTION
SAN DIEGO
PUNTA EUGENIA
125°
120°
115°
110°
105°
40°
35°
30°
25°
20°

FIGURE 2

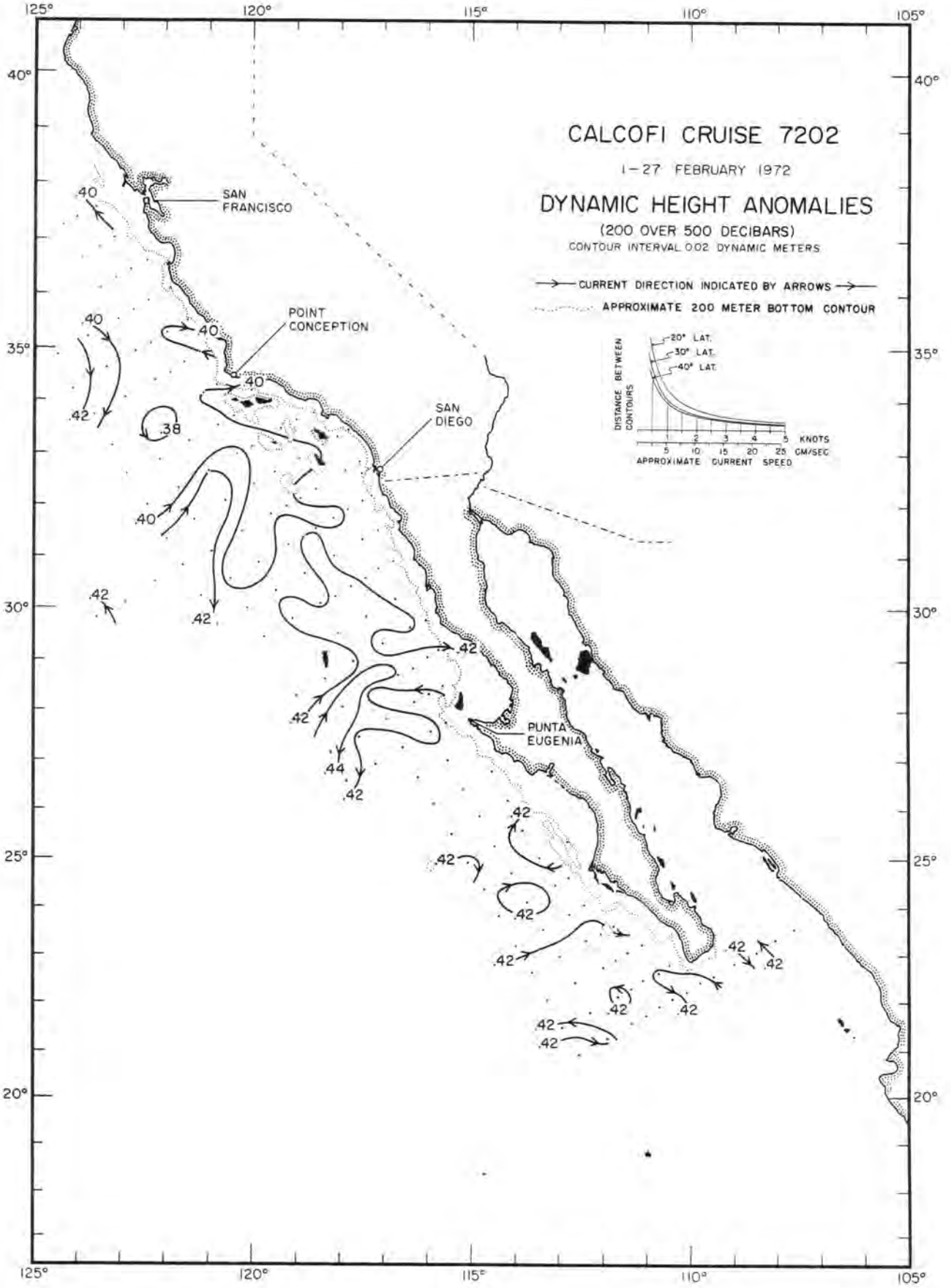

CALCOFI CRUISE 7202
1-27 FEBRUARY 1972
DYNAMIC HEIGHT ANOMALIES
(200 OVER 500 DECIBARS)
CONTOUR INTERVAL 0.02 DYNAMIC METERS
CURRENT DIRECTION INDICATED BY ARROWS
APPROXIMATE 200 METER BOTTOM CONTOUR
DISTANCE BETWEEN CONTOURS
20° LAT.
30° LAT.
40° LAT.
KNOTS
CM/SEC
APPROXIMATE CURRENT SPEED
SAN FRANCISCO
POINT CONCEPTION
SAN DIEGO
PUNTA EUGENIA
125°
120°
115°
110°
105°
40°
35°
30°
25°
20°

FIGURE 3

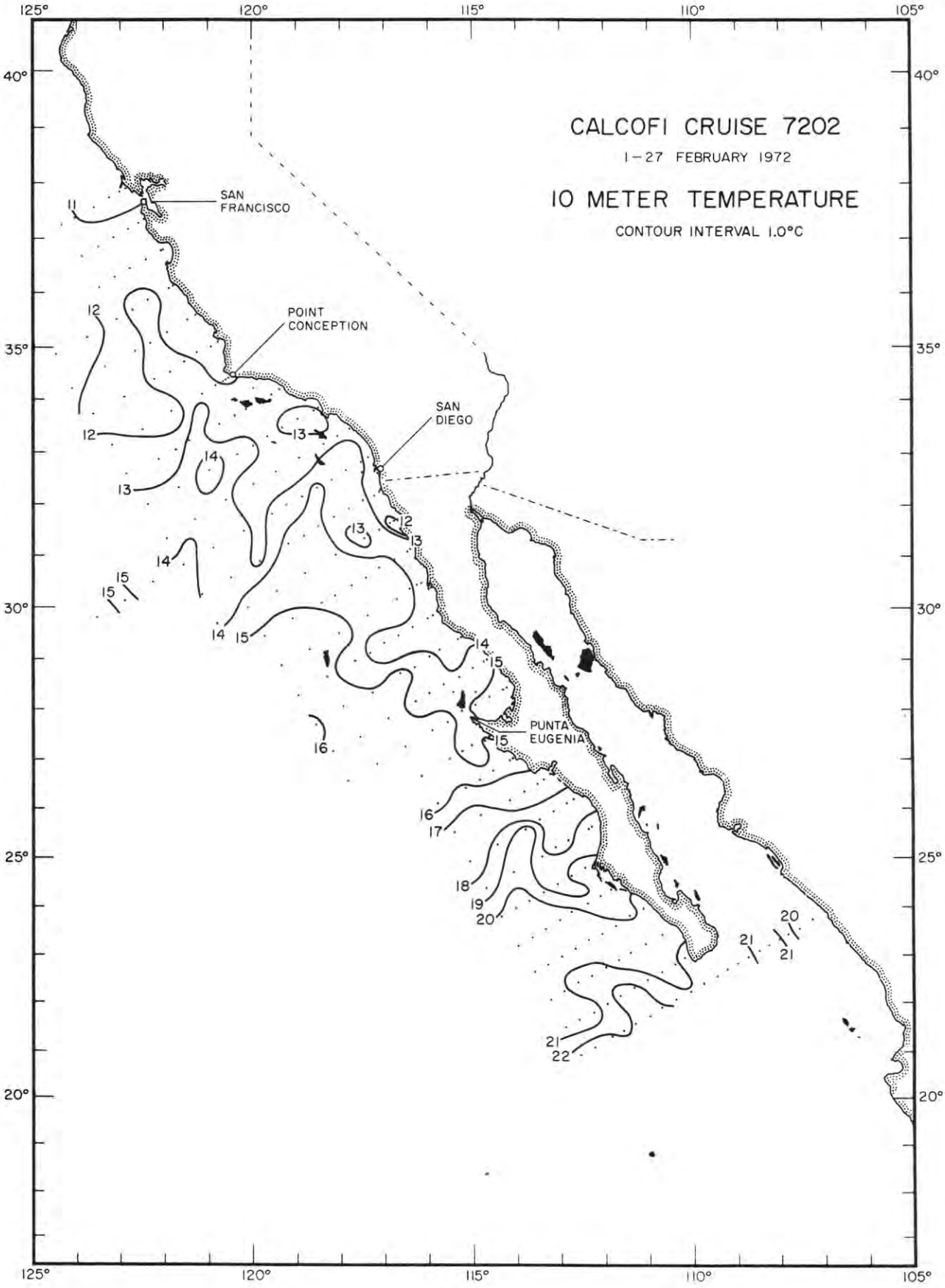

CALCOFI CRUISE 7202
1-27 FEBRUARY 1972
10 METER TEMPERATURE
CONTOUR INTERVAL 1.0°C
SAN FRANCISCO
POINT CONCEPTION
SAN DIEGO
PUNTA EUGENIA
125°
120°
115°
110°
105°
40°
35°
30°
25°
20°

FIGURE 4

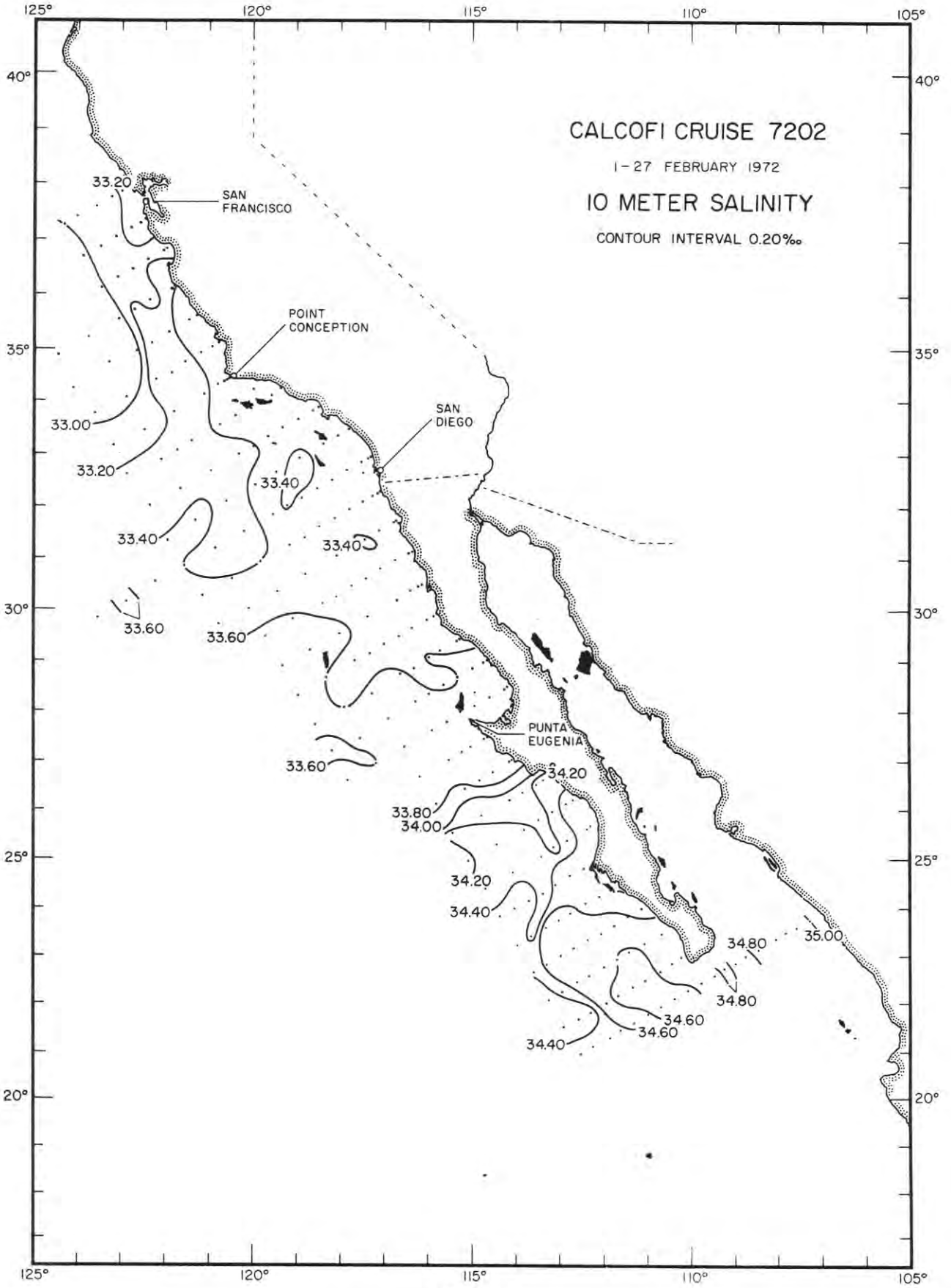

CALCOFI CRUISE 7202
1-27 FEBRUARY 1972
10 METER SALINITY
CONTOUR INTERVAL 0.20‰
SAN FRANCISCO
POINT CONCEPTION
SAN DIEGO
PUNTA EUGENIA
125°
120°
115°
110°
105°
40°
35°
30°
25°
20°
33.20
33.00
33.20
33.40
33.40
33.40
33.60
33.60
33.60
34.20
33.80
34.00
34.20
34.40
34.40
34.60
34.60
34.80
34.80
35.00

FIGURE 5

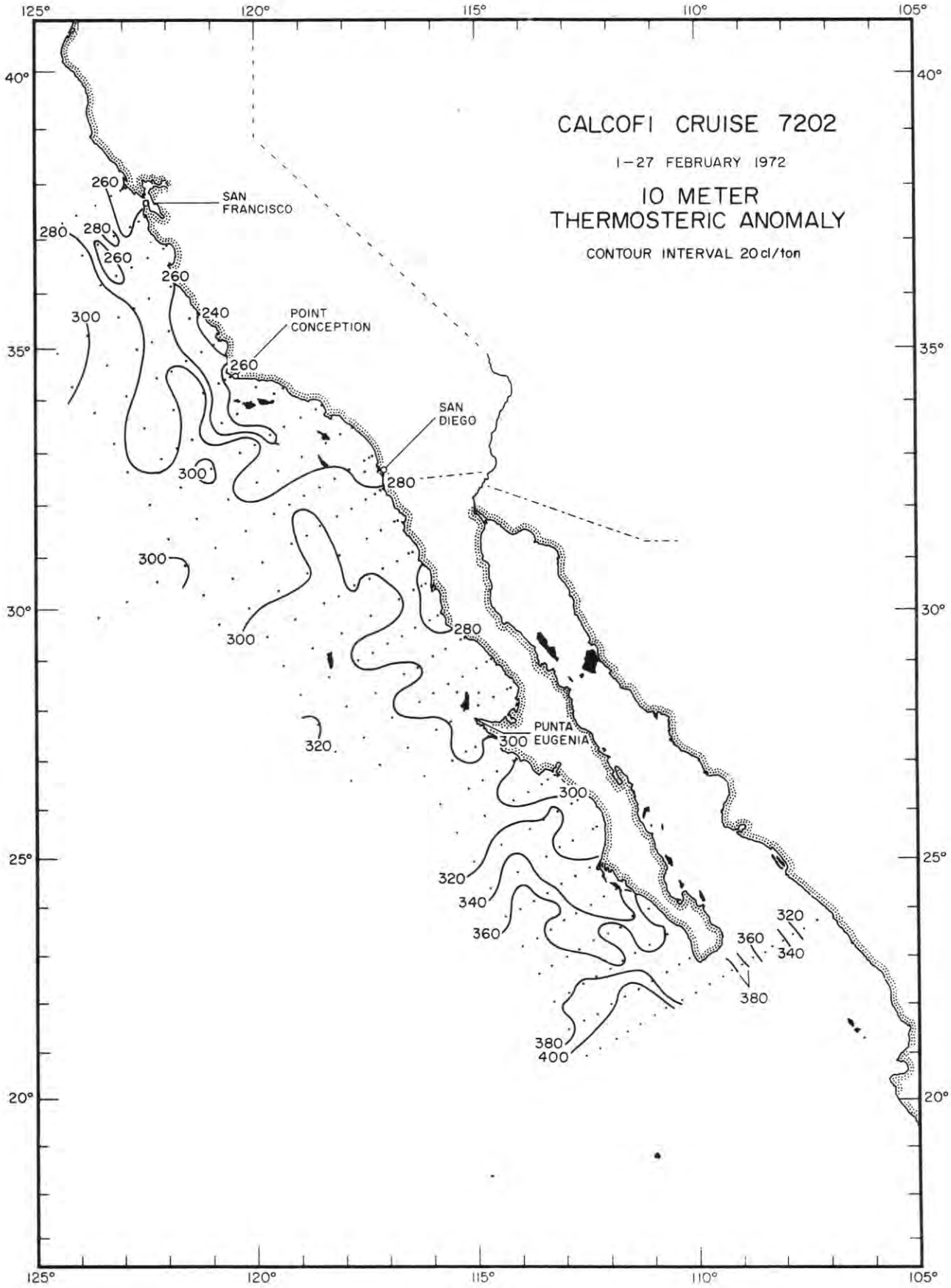

CALCOFI CRUISE 7202
1–27 FEBRUARY 1972
10 METER
THERMOSTERIC ANOMALY
CONTOUR INTERVAL 20 cl/ton
SAN FRANCISCO
POINT CONCEPTION
SAN DIEGO
PUNTA EUGENIA
125°
120°
115°
110°
105°
40°
35°
30°
25°
20°
260
280
300
240
320
340
360
380
400

FIGURE 6

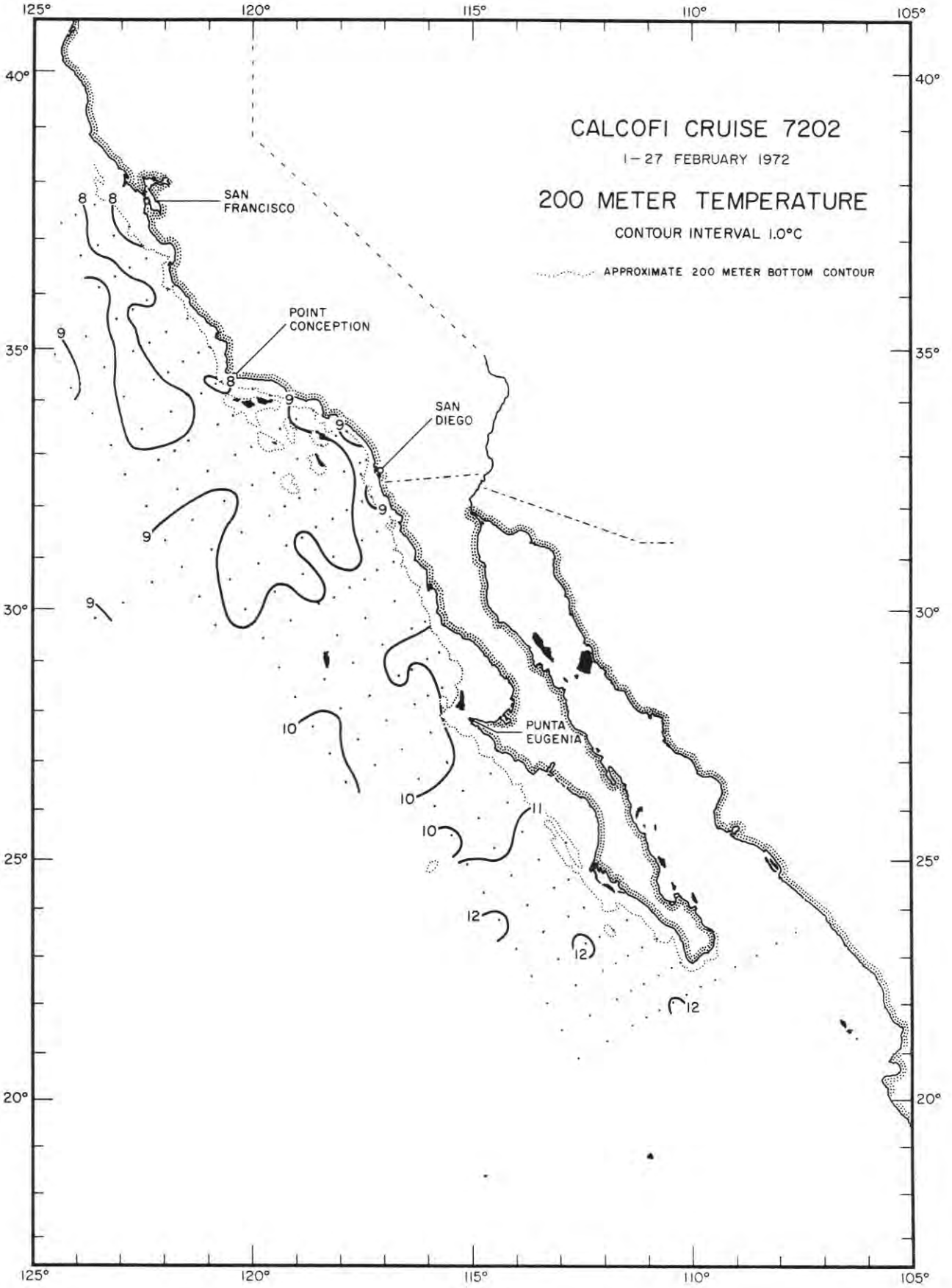

CALCOFI CRUISE 7202
1-27 FEBRUARY 1972
200 METER TEMPERATURE
CONTOUR INTERVAL 1.0°C
APPROXIMATE 200 METER BOTTOM CONTOUR
SAN FRANCISCO
POINT CONCEPTION
SAN DIEGO
PUNTA EUGENIA
125°
120°
115°
110°
105°
40°
35°
30°
25°
20°
8
9
10
11
12

FIGURE 7

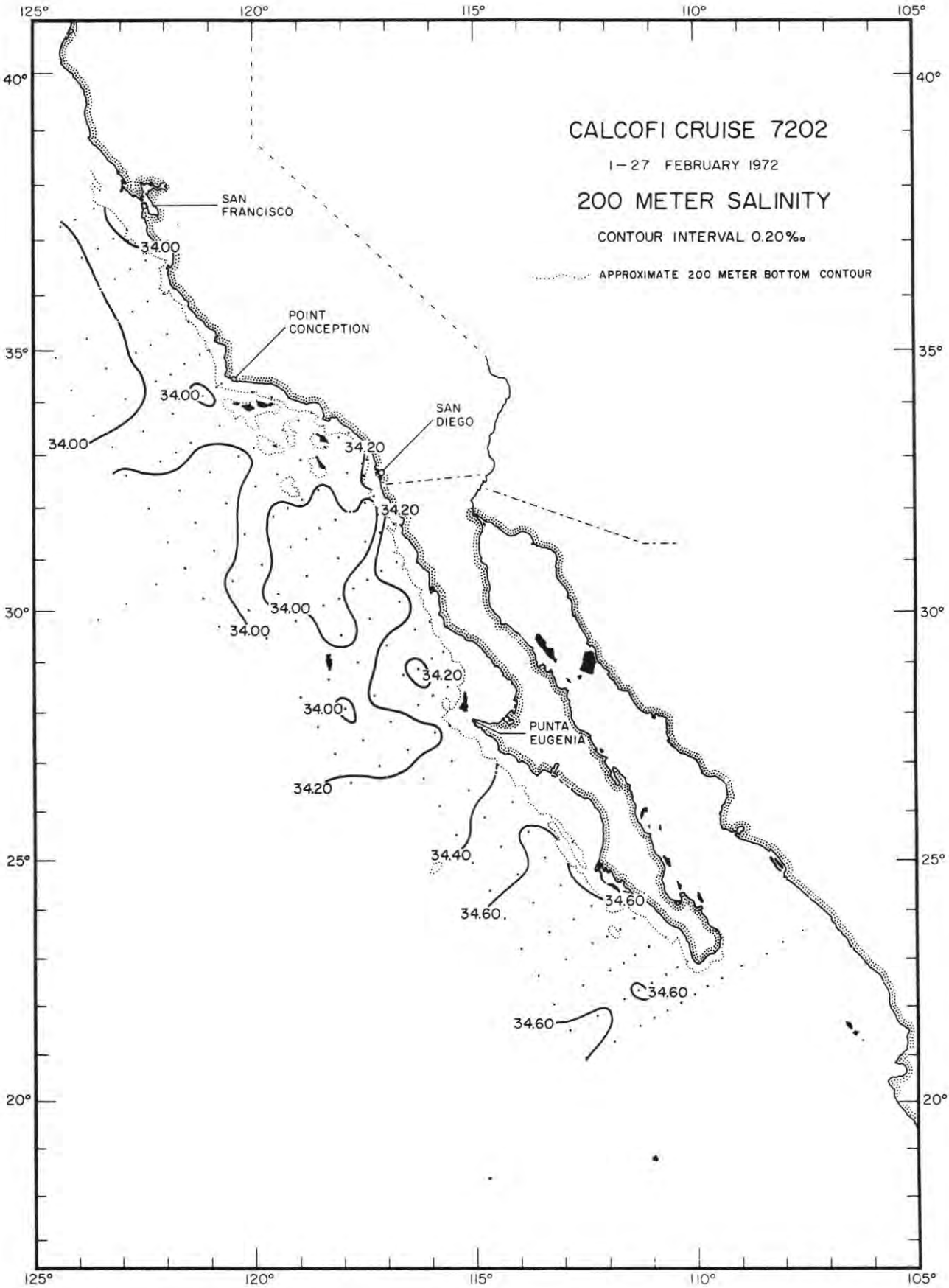

CALCOFI CRUISE 7202
1 – 27 FEBRUARY 1972
200 METER SALINITY
CONTOUR INTERVAL 0.20‰
APPROXIMATE 200 METER BOTTOM CONTOUR
SAN FRANCISCO
POINT CONCEPTION
SAN DIEGO
PUNTA EUGENIA
34.00
34.20
34.40
34.60
125°
120°
115°
110°
105°
40°
35°
30°
25°
20°

FIGURE 8

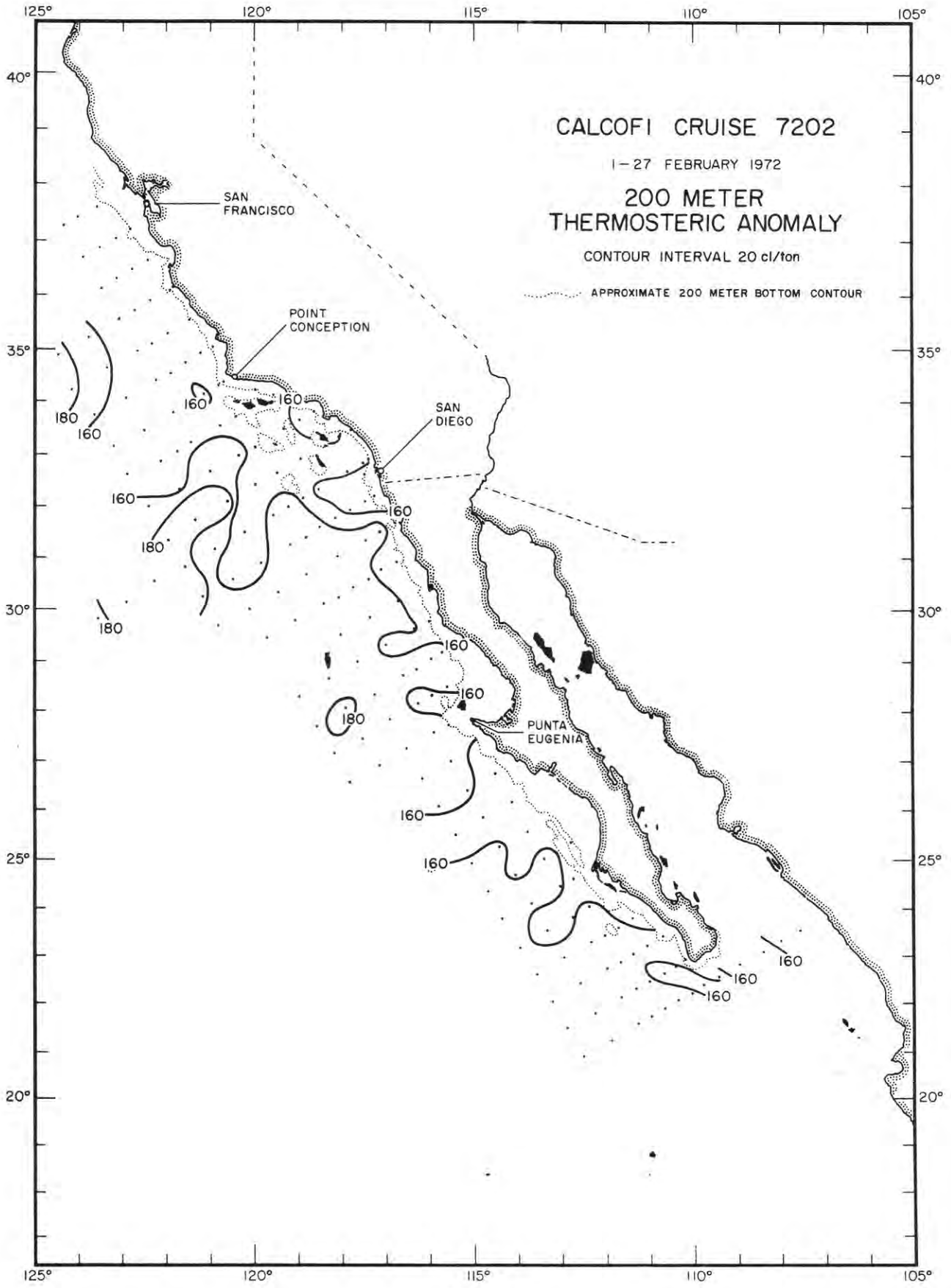

CALCOFI CRUISE 7202
1 – 27 FEBRUARY 1972
200 METER
THERMOSTERIC ANOMALY
CONTOUR INTERVAL 20 cl/ton
APPROXIMATE 200 METER BOTTOM CONTOUR
SAN FRANCISCO
POINT CONCEPTION
SAN DIEGO
PUNTA EUGENIA
125°
120°
115°
110°
105°
40°
35°
30°
25°
20°
160
180

FIGURE 9

PERSONNEL

Cruise 7202

SHIP'S CAPTAINS

Davis, Laurence E., RV Alexander Agassiz
Forster, Charles W., RV David Starr Jordan

PERSONNEL PARTICIPATING IN THE COLLECTION OF DATA

RV Alexander Agassiz:

Bryan, Walter R. (in charge)	Marine Technician SIO
Barker, Susan G.	Volunteer
Cooke, Gordon R.	Electronics Technician SIO
Gobat, Dagmar	Analyst GEOSECS
Huffer, Robert P.	Marine Technician SIO
Knutson, Kenneth E.	Electronics Technician SIO
Lam, Ronald K.	Post-Graduate Research Oceanographer SIO
Middlemiss, Heather A.	Engineering Aid SIO
Patla, Susan M.	Marine Technician SIO
Pierce, Stephen E.	Marine Technician SIO
Rowe, Raymond A.	Marine Technician SIO
Schmitt, James A.	Electronics Technician SIO
Sessions, Meredith H.	Development Engineer SIO
Smith, Rex D.	Photographic Technician SIO
Waldorf, Bruce W.	Marine Technician GEOSECS
Witherow, Sharon L.	Secretary SIO

RV David Starr Jordan:

Metoyer, Jack D. (in charge)	Biology Laboratory Technician NMFS
Brown, Jack C.	Electronics Technician NMFS
Castro, Thalia	Biologist, Instituto Nacional de Pesca, Mexico
Garcia, Rafael K.	Student, Escuela Superior Ciencias Marinas, Mexico
Granados, Maria L.	Oceanologist, Instituto Nacional de Pesca, Mexico
LeVeille, Kenneth P.	Analyst GEOSECS
Lizarraga, Marcial L.	Student, Escuela Superior Ciencias Marinas, Mexico
Minteer, Robert Z.	Marine Technician SIO
Nishimoto, Robert N.	Fishery Biologist NMFS
Vrooman, Andrew M.	Fishery Research Biologist NMFS
Wells, James A.	Marine Technician SIO

RV ALEXANDER AGASSIZ CALCOFI CRUISE 7202 60050

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
37 57.5N	122 53.0W	2/27/72	0220 GMT	45M	330	13KT	1	310 3 3

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
									0	11.52	32.55		24.800	315.9	0.000
									10	10.71	33.27		25.503	249.0	0.028
									20	10.30	33.32		25.613	238.5	0.053
									30	10.08	33.35		25.673	232.7	0.076

RV ALEXANDER AGASSIZ CALCOFI CRUISE 7202 60052

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
37 54.0N	123 03.0W	2/27/72	0340 GMT	78M	330	11KT	1	

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
									0	10.93	33.12		25.348	263.7	0.000
									10	10.42	33.21		25.506	248.6	0.026
									20	10.23	33.29		25.601	239.6	0.050
									30	10.13	33.37		25.680	232.1	0.074
									50	9.97	33.62		25.902	211.0	0.118

RV ALEXANDER AGASSIZ CALCOFI CRUISE 7202 60052

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
37 54.0N	123 03.0W	2/27/72	0405 GMT	78M	330	11KT	1	

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
0	10.96	33.126		0.62	9.	0.12	3.8	263.8	0	10.96	33.126		25.347	263.8	0.000
9	10.54	33.167		0.64	9.	0.11	3.9	253.8	10	10.51	33.175		25.462	252.8	0.026
20	10.26	33.245		0.82	12.	0.09	7.2	243.4	20	10.26	33.245		25.561	243.4	0.051
30	10.16	33.361		1.05	12.	0.29	9.7	233.2	30	10.16	33.361		25.668	233.2	0.075
51	9.91	33.600		1.53	23.	0.30	16.0	211.5	50	9.92	33.590		25.885	212.6	0.119

RV ALEXANDER AGASSIZ CALCOFI CRUISE 7202 60055

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
37 48.0N	123 15.5W	2/27/72	0600 GMT	97M	070	8KT	4	49

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
									0	10.81	33.12		25.369	261.7	0.000
									10	10.71	33.12		25.386	260.0	0.026
									20	10.43	33.27		25.551	244.3	0.051
									30	10.22	33.33		25.634	236.5	0.075
									50	9.93	33.38		25.722	228.1	0.122
									75	10.01	33.55		25.841	216.8	0.178

RV ALEXANDER AGASSIZ CALCOFI CRUISE 7202 60060

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
37 37.0N	123 37.0W	2/27/72	0923 GMT	3239M	190	2KT	4	49

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
									0	11.30	33.04		25.219	275.9	0.000
									10	10.85	33.10		25.346	263.9	0.027
									20	10.46	33.17		25.468	252.2	0.053
									30	10.41	33.19		25.493	249.9	0.078
									50	10.39	33.50		25.737	226.7	0.126
									75	10.02	33.62		25.893	211.8	0.181
									100	9.46	33.80		26.127	189.6	0.232
									125	9.24	33.89		26.233	179.6	0.278
									150	8.89	33.96		26.343	169.1	0.322
									200	8.47	34.01		26.447	159.2	0.406
									250	7.99	34.08		26.575	147.1	0.485
									300	7.61	34.10		26.646	140.3	0.559
									400	6.56	34.12		26.807	125.0	0.697
									500	5.74	34.21		26.983	108.3	0.819
									600	5.17	34.26		27.092	98.0	0.929
									700	4.78	34.33		27.192	88.5	1.030
									800	4.44	34.38		27.269	81.2	1.122
									1000	3.90	34.47		27.397	69.1	1.289

RV ALEXANDER AGASSIZ CALCOFI CRUISE 7202 60060

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
37 37.0N	123 37.0W	2/27/72	1101 GMT	3239M	190	2KT	4	49

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
0	11.42	33.036	7.16	0.21	2.	0.03	0.0	278.3	0	11.42	33.036	7.16	25.195	278.3	0.000
9	10.86	33.089	6.84	0.48	5.	0.08	2.8	264.8	10	10.82	33.096	6.82	25.347	263.8	0.027
29	10.36	33.183	6.53	0.70	8.	0.23	5.9	249.6	20	10.51	33.144	6.64	25.438	255.1	0.053
54	10.07	33.345	6.02	1.02	14.	0.29	10.9	232.9	30	10.34	33.189	6.52	25.502	249.0	0.078
69	10.23	33.575	5.02	1.29	15.	0.04	13.0	218.5	[illegible]	10.08	33.310	6.15	25.641	235.8	0.127
84	9.70	33.680	4.51	1.52	21.	0.03	16.7	202.3	75	10.04	33.623	4.82	25.891	212.1	0.183
99	9.45	33.832	3.43	1.79	27.	0.02	21.3	187.1	100	9.44	33.839	3.42	26.160	186.5	0.234
129	9.09	33.924		1.99	30.	0.01	24.8	174.8	125	9.13	33.923	3.13	26.275	175.6	0.279
154	8.85	33.968	2.80	2.05	32.	0.01	24.1	167.9	150	8.69	33.964	2.85	26.346	168.8	0.323
180	8.57	33.980	2.90	2.01	36.	0.01	28.2	162.8	200	8.34	33.996	2.89	26.455	158.4	0.406
215	8.18	34.009	2.89	2.14	38.	0.01	26.9	155.0	250	7.89	34.056	2.47	26.570	147.5	0.485
280	7.63	34.087	2.04	2.42	49.	0.01	32.6	141.5	300	7.35	34.083	1.95	26.669	138.1	0.559
379	6.30	34.054	1.75	2.68	62.	0.01	35.6	126.7	400	6.15	34.066	1.62	26.817	124.1	0.695
478	5.78	34.124	1.12	2.93	75.	0.00	39.4	115.2	500	5.69	34.144	1.01	26.937	112.7	0.819
611	5.25	34.242	0.58	3.18	89.	0.01	43.5	100.3	600	5.29	34.233	0.61	27.055	101.5	0.933
763	4.64	34.368	0.43	3.26	108.	0.01	45.8	84.2	700	4.88	34.321	0.49	27.173	90.4	1.036
911	4.21	34.424	0.54	3.27	114.	0.01	41.70	75.6	800	4.53	34.386	0.46	27.264	81.7	1.130
1115	3.61	34.482		3.27		0.00	46.1	65.4	1000	3.95	34.453		27.378	70.9	1.299

RV ALEXANDER AGASSIZ CALCOFI CRUISE 7202 60065

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
37 25.5N	124 04.0W	2/27/72	1425 GMT	3711M	200	7KT	2	250 3 4

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
									0	11.72	33.00		25.112	286.2	0.000
									10	11.01	33.01		25.248	273.2	0.028
									20	10.65	33.02		25.319	266.4	0.055
									30	10.34	33.09		25.427	256.2	0.081
									50	9.83	33.24		25.629	236.9	0.131
									75	9.73	33.56		25.895	211.6	0.187
									100	8.81	33.69		26.145	187.9	0.237
									125	8.53	33.89		26.344	166.9	0.282
									150	8.30	33.95		26.426	161.1	0.324
									200	7.79	34.04		26.573	147.2	0.403
									250	7.30	34.07		26.667	138.3	0.476
									300	6.95	34.13		26.763	129.2	0.545
									400	6.14	34.18		26.909	115.3	0.672
									500	5.43	34.23		27.037	103.2	0.787
									600	4.92	34.31		27.160	91.6	0.891
									700	4.54	34.35		27.234	84.5	0.986
									800	3.96	34.40		27.336	74.9	1.073
									1000	3.31	34.47		27.456	63.5	1.226

RV ALEXANDER AGASSIZ CALCOFI CRUISE 7202 60070

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
37 16.5N	124 23.0W	2/27/72	1658 GMT	3918M	190	9KT	4	230 3 5

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
									0	11.64	32.98		25.111	286.2	0.000
									10	11.17	33.00		25.212	276.7	0.028
									20	11.03	33.07		25.291	269.1	0.055
									30	11.06	33.21		25.394	259.3	0.082
									50	10.90	33.35		25.531	246.2	0.133
									75	9.19	33.44		25.890	212.2	0.190
									100	8.89	33.74		26.171	185.4	0.240
									125	8.52	33.83		26.299	173.3	0.286
									150	8.31	33.91		26.394	164.3	0.329
									200	7.57	33.99		26.566	148.0	0.408
									250	6.99	33.99		26.647	140.2	0.482
									300	6.67	34.06		26.745	130.9	0.552
									400	5.85	34.12		26.899	116.3	0.680
									500	5.34	34.22		27.040	102.9	0.795
									600	4.89	34.25		27.116	95.7	0.901
									700	4.41	34.32		27.225	85.4	0.998
									800	4.10	34.37		27.297	78.5	1.087
									1000	3.59	34.46		27.421	66.9	1.248

RV ALEXANDER AGASSIZ CALCOFI CRUISE 7202 60070

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
37 16.5N	124 23.0W	2/27/72	1807 GMT	3918M	190	9KT	4	230 3 5

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
0	11.43	32.97	6.58	0.37	3.	0.01	1.2	283.3	0	11.43	32.97	6.58	25.142	283.3	0.000
10	11.21	32.96	6.61	0.36	4.	0.01	1.6	280.3	10	11.21	32.96	6.61	25.173	280.3	0.028
30	11.06	33.20	6.51	0.48	5.	0.02	3.8	260.0	20	11.11	33.07	6.58	25.273	270.9	0.056
55	10.81	33.34	6.14	0.69	8.	0.25	6.0	245.5	30	11.06	33.20	6.51	25.386	260.0	0.082
70	10.56	33.46	5.66	0.90	10.	0.02	9.0	232.4	50	10.87	33.32	6.25	25.510	248.3	0.133
85	9.21	33.43	4.81	1.24	15.	0.00	14.5	213.2	75	10.11	33.45	5.39	25.742	226.2	0.193
100	9.01	33.60	4.08	1.48	22.	0.00	17.7	197.6	100	9.01	33.60	4.08	26.043	197.6	0.246
130	8.54	33.83	3.65	1.74	28.	0.00	21.8	173.5	125	8.61	33.80	3.72	26.263	176.7	0.294
155	8.32	33.91	3.58	1.83	32.	0.00	23.1	164.4	150	8.36	33.90	3.59	26.377	165.8	0.337
181	7.93	33.96	3.41	1.85	35.	0.00	25.0	155.2	200	7.65	33.98	3.27	26.546	149.8	0.418
216	7.42	33.99	3.12	2.00	42.	0.00	24.6	145.9	250	7.02	34.02	2.56	26.664	138.6	0.491
281	6.72	34.04	2.02	2.45	54.	0.00	33.4	133.0	300	6.57	34.05	1.83	26.751	130.3	0.561
382	6.06	34.10	1.28	2.79	69.	0.00	36.0	120.3	400	5.96	34.12	1.15	26.884	117.7	0.689
482	5.51	34.20	0.66	3.03	83.	0.00	39.8	106.4	500	5.41	34.21	0.64	27.023	104.6	0.806
618	4.79	34.25	0.48	3.09	100.	0.00		94.7	600	4.88	34.25	0.50	27.114	96.0	0.913
771	4.24	34.343	0.37	3.21	117.	0.00		82.0	700	4.47	34.30	0.40	27.201	87.7	1.011
918	3.85	34.429	0.54	3.24	120.	0.00	41.7	71.7	800	4.16	34.36	0.40	27.285	79.7	1.102
1122	3.36	34.489	0.54	3.20		0.00	44.7	62.5	1000	3.65	34.46	0.54	27.416	67.3	1.265

RV ALEXANDER AGASSIZ CALCOFI CRUISE 7202 63050

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
37 23.5N	122 28.0W	2/26/72	2213 GMT	26M	010	15KT	1	290 2 4

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
									0	12.06	33.19		25.195	278.2	0.000
									10	11.62	33.32		25.378	260.8	0.027
									20	11.32	33.43		25.518	247.5	0.052

RV ALEXANDER AGASSIZ CALCOFI CRUISE 7202 63052

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
37 19.0N	122 36.5W	2/26/72	2012 GMT	86M	090	8KT	4	240 3 7

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
									0	11.78	33.19		25.248	273.2	0.000
									10	11.36	33.25		25.371	261.5	0.027
									20	11.23	33.26		25.402	258.5	0.053
									30	11.13	33.28		25.436	255.3	0.079
									50	10.89	33.41		25.580	241.6	0.128

RV ALEXANDER AGASSIZ CALCOFI CRUISE 7202 63055

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
37 13.0N	122 50.0W	2/26/72	1810 GMT	268M	040	2KT	4	230 2 5

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
									0	12.11	33.45		25.387	260.0	0.000
									10	11.81	33.50		25.482	250.9	0.026
									20	11.49	33.52		25.557	243.8	0.050
									30	11.29	33.52		25.593	240.3	0.075
									50	11.16	33.54		25.632	236.6	0.122
									75	10.22	33.68		25.906	210.6	0.179
									100	9.76	33.70		25.999	201.7	0.231
									125	9.08	33.76		26.157	186.8	0.280
									150	8.43	33.90		26.368	166.7	0.325
									200	7.90	33.97		26.502	154.0	0.406
									250	7.01	34.03		26.676	137.5	0.481

RV ALEXANDER AGASSIZ CALCOFI CRUISE 7202 63060

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
37 02.5N	123 11.0W	2/26/72	1359 GMT	2129M	300	6KT	2	310 4 6

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
									0	11.69	33.05		25.156	282.0	0.000
									10	11.66	33.06		25.169	280.7	0.028
									20	11.31	33.28		25.404	258.4	0.055
									30	11.28	33.47		25.556	243.9	0.080
									50	11.21	33.54		25.623	237.5	0.129
									75	10.13	33.64		25.890	212.1	0.185
									100	9.40	33.87		26.191	183.5	0.235
									125	8.82	33.97		26.362	167.3	0.279
									150	8.66	34.00		26.410	162.7	0.321
									200	8.06	34.09		26.572	147.3	0.400
									250	7.49	34.15		26.703	134.9	0.473
									300	7.13	34.17		26.769	128.6	0.541
									400	6.10	34.19		26.922	114.1	0.667
									500	5.78	34.29		27.042	102.8	0.782
									600	5.29	34.33		27.133	94.1	0.887
									700	4.92	34.37		27.207	87.1	0.985
									800	4.48	34.42		27.296	78.6	1.076
									1000	3.91	34.48		27.404	68.4	1.240

RV ALEXANDER AGASSIZ CALCOFI CRUISE 7202 63060

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
37 02.5N	123 11.0W	2/26/72	1505 GMT	2129M	300	6KT	2	310 4 6

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
1	11.65	33.054	6.50	0.55	4.	0.05	1.1	281.0	0	11.65	33.054	6.50	25.166	281.0	0.000
11	11.66	33.051	6.67	0.72	4.	0.04	1.0	281.4	10	11.66	33.054	6.66	25.163	281.3	0.028
31	11.29	33.448	6.36	0.92	8.	0.37	5.0	245.7	20	11.51	33.217	6.58	25.317	266.7	0.056
56	11.19	33.522	6.01	0.83	10.	0.67	6.9	238.5	30	11.31	33.427	6.39	25.516	247.7	0.081
71	11.07	33.537	5.81	1.01	11.	0.50	8.1	235.3	50	11.20	33.503	6.09	25.595	240.2	0.130
86	10.09	33.585	4.66	1.41	17.	0.03	14.1	215.5	75	10.30	33.572	5.55	25.808	219.9	0.188
101	9.55	33.774	3.56	1.91	24.	0.01	20.2	193.0	100	9.59	33.761	3.62	26.074	194.6	0.240
131	9.00	33.908	3.01	2.24	30.	0.00	22.7	174.6	125	9.08	33.898	3.12	26.264	176.6	0.287
156	8.61	33.971	2.93	2.05	33.	0.01	23.8	164.1	150	8.70	33.959	2.95	26.371	166.4	0.331
181	8.22	34.037	2.43	2.33	39.	0.01	27.8	153.5	200	8.03	34.061	2.26	26.553	149.1	0.411
216	7.90	34.071	2.17	2.50	43.	0.00	26.3	146.5	250	7.58	34.105	1.84	26.654	139.6	0.485
281	7.28	34.131	1.53	2.69	53.	0.00	31.6	133.5	300	7.07	34.142	1.39	26.754	130.1	0.555
382	6.30	34.179	0.93	3.04	69.	0.00	37.8	117.4	400	6.21	34.192	0.85	26.909	115.4	0.683
482	5.89	34.244	0.56	3.25	79.	0.00	38.4	107.5	500	5.80	34.255	0.55	27.011	105.7	0.799
617	5.19	34.317	0.45	3.39	94.	0.00	40.7	94.0	600	5.28	34.309	0.46	27.117	95.7	0.907
771	4.51	34.399	0.46	3.41	109.	0.01	43.3	80.5	700	4.80	34.364	0.46	27.216	86.3	1.005
918	4.04	34.442	0.53	3.40	121.	0.00		72.5	800	4.41	34.410	0.47	27.296	78.7	1.095
1121	3.57	34.483	0.72	3.32	130.	0.00	41.6	64.9	1000	3.83	34.462	0.59	27.398	69.0	1.259

RV ALEXANDER AGASSIZ CALCOFI CRUISE 7202 63065

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
36 52.5N	123 32.0W	2/26/72	1105 GMT	3325M	090	2KT		49

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
									0	11.84	33.30		25.322	266.2	0.000
									10	11.70	33.37		25.402	258.6	0.026
									20	11.30	33.41		25.506	248.6	0.052
									30	11.21	33.44		25.546	244.9	0.076
									50	10.25	33.51		25.769	223.6	0.123
									75	9.45	33.56		25.941	207.3	0.178
									100	9.14	33.79		26.171	185.5	0.227
									125	9.01	33.90		26.277	175.3	0.273
									150	8.37	33.94		26.408	162.9	0.316
									200	8.29	34.06		26.514	152.8	0.396
									250	7.77	34.11		26.631	141.8	0.472
									300	7.00	34.17		26.787	126.9	0.541
									400	6.38	34.21		26.902	116.0	0.668
									500	5.95	34.26		26.997	107.0	0.785
									600	5.35	34.31		27.110	96.3	0.894
									700	4.89	34.37		27.211	86.7	0.993
									800	4.47	34.42		27.297	78.5	1.083
									1000	3.82	34.48		27.413	67.5	1.246

RV ALEXANDER AGASSIZ CALCOFI CRUISE 7202 63070

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
36 41.5N	123 56.0W	2/26/72	0739 GMT	3870M	200	6KT		49

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
									0	12.09	32.84		24.919	304.5	0.000
									10	11.74	32.83		24.976	299.1	0.030
									20	11.46	32.83		25.028	294.2	0.060
									30	10.76	32.86		25.176	280.1	0.089
									50	10.75	33.09		25.356	262.9	0.143
									75	10.20	33.15		25.497	249.5	0.207
									100	9.56	33.40		25.799	220.8	0.267
									125	9.25	33.70		26.083	193.8	0.319
									150	8.57	33.86		26.315	171.8	0.365
									200	7.92	33.99		26.515	152.8	0.448
									250	7.22	34.02		26.639	141.0	0.523
									300	6.64	34.05		26.742	131.2	0.593
									400	5.82	34.13		26.910	115.2	0.721
									500	5.40	34.24		27.048	102.1	0.836
									600	5.06	34.34		27.168	90.8	0.939
									700	4.70	34.39		27.248	83.2	1.033
									800	4.37	34.43		27.316	76.7	1.120
									1000	3.79	34.49		27.424	66.5	1.280

RV ALEXANDER AGASSIZ CALCOFI CRUISE 7202 67048

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
36 51.0N	122 00.5W	2/25/72	0122 GMT	75M	290	15KT	1	280 4 8

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
									0	11.72	33.10		25.189	278.8	0.000
									10	11.71	33.11		25.199	277.9	0.028
									20	11.25	33.22		25.368	261.8	0.055
									30	11.01	33.45		25.589	240.7	0.080
									50	10.42	33.48		25.716	228.6	0.127

RV ALEXANDER AGASSIZ CALCOFI CRUISE 7202 67050

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
36 49.0N	122 04.5W	2/25/72	0233 GMT	108M	300	13KT	1	

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	11.87	33.06		25.130	284.4	0.000
10	11.73	33.10		25.187	279.0	0.028
20	11.28	33.18		25.331	265.3	0.055
30	10.95	33.47		25.616	238.2	0.081
50	10.45	33.61		25.812	219.5	0.127
75	9.48	33.61		25.975	204.0	0.180
100	9.11	33.91		26.269	176.1	0.228

RV ALEXANDER AGASSIZ CALCOFI CRUISE 7202 67050

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
36 49.0N	122 04.5W	2/25/72	0254 GMT	108M	300	13KT	1	

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT
0	11.84	33.074	5.13U	0.47	4.	0.04	0.9	282.8
11	11.64	33.129	6.56	0.45	4.	0.04	0.4	275.3
26	11.00	33.414	6.32	0.67	6.	0.40	3.1	243.2
36	10.81	33.502	6.28	0.77	5.	0.23	4.4	233.5
46	10.48	33.593	5.40	1.20	15.	0.38	11.6	221.3
61	10.30	33.598 U	4.89	1.29	17.	0.36	13.6	
76	9.26	33.658	4.29	1.60	21.	0.04	19.7	197.1
103	9.07	33.878	3.12	1.91	29.	0.00	24.3	177.9

Z	T	S	O2	SIGT	DT	DD
0	11.84	33.074		25.147	282.8	0.000
10	11.67	33.121		25.213	276.5	0.028
20	11.26	33.298	6.39	25.426	256.3	0.055
30	10.92	33.456	6.30	25.608	238.9	0.079
50	10.46	33.641	5.22	25.834	217.4	0.125
75	9.33	33.666	4.33	26.042	197.7	0.177
100	9.09	33.857	3.26	26.229	179.9	0.225

RV ALEXANDER AGASSIZ CALCOFI CRUISE 7202 67055

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
36 38.5N	122 25.5W	2/25/72	0556 GMT	2222M	340	5KT	1	

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	11.69	33.21		25.280	270.2	0.000
10	11.40	33.20		25.325	265.8	0.027
20	11.32	33.22		25.355	263.0	0.053
30	11.30	33.25		25.382	260.4	0.080
50	10.93	33.30		25.487	250.4	0.131
75	10.83	33.47		25.637	236.2	0.192
100	9.67	33.59		25.929	208.5	0.248
125	9.08	33.73		26.133	189.0	0.298
150	8.58	33.88		26.329	170.4	0.344
200	8.04	34.02		26.520	152.2	0.426
250	7.35	34.02		26.620	142.7	0.502
300	7.05	34.09		26.717	133.5	0.573
400	6.40	34.20		26.891	117.0	0.703
500	5.83	34.26		27.012	105.6	0.821
600	5.32	34.32		27.121	95.2	0.928
700	4.83	34.37		27.218	86.1	1.026
800	4.52	34.42		27.292	79.0	1.116
1000	3.97	34.48		27.398	69.0	1.281

RV ALEXANDER AGASSIZ CALCOFI CRUISE 7202 67060

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
36 29.0N	122 47.5W	2/25/72	0925 GMT	2954M	020	7KT	2	

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	11.91	33.01		25.084	288.8	0.000
10	11.91	33.14		25.185	279.2	0.028
20	11.21	33.20		25.360	262.6	0.056
30	11.03	33.35		25.508	248.4	0.081
50	11.01	33.46		25.597	240.0	0.130
75	10.70	33.54		25.714	228.8	0.189
100	9.87	33.68		25.965	205.0	0.244
125	9.60	33.84		26.135	188.9	0.294
150	9.03	33.97		26.329	170.4	0.339
200	8.30	34.06		26.513	153.0	0.422
250	7.56	34.09		26.635	141.4	0.497
300	7.24	34.13		26.722	133.1	0.568
400	6.36	34.17		26.873	118.8	0.699
500	5.79	34.27		27.025	104.4	0.817
600	5.21	34.31		27.126	94.7	0.923
700	4.89	34.36		27.203	87.5	1.021
800	4.47	34.40		27.281	80.0	1.113
1000	3.86	34.46		27.394	69.4	1.279

RV ALEXANDER AGASSIZ — CALCOFI CRUISE 7202 — 67060

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
36 29.0N	122 47.5W	2/25/72	1055 GMT	2954M	020	7KT	2	

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT
0	11.83	33.014	6.46	0.41	4.	0.01	0.6	287.1
10	11.77	33.111	6.73	0.38	2.	0.01	0.2	278.9
30	11.04	33.330	6.17	0.67	7.	0.16	4.7	250.1
55	11.00	33.465	6.12	0.76	8.	0.15	6.5	239.4
70	10.83	33.499		0.93	9.	0.03	8.0	234.1
85	10.10	33.550	4.91	1.25	16.	0.01	13.2	210.3
100	9.92	33.724	4.22	1.51	21.	0.01	17.2	202.5
130	9.34	33.858	3.28	1.77	27.	0.01	20.5	183.5
155	9.05	33.955	3.00	1.94	32.	0.00	22.7	170.4
180	8.56	34.003	2.67	2.07	38.	0.00	26.3	161.3
215	8.12		2.32					
261	7.27	34.041	1.78	2.51	52.	0.00	32.4	136.6
382	6.56	34.188	1.03	2.85	66.	0.00	35.2	119.9
483	5.99	34.249	0.66	3.03	77.	0.00	38.8	108.3
618	5.24	34.322	0.47	3.16	93.	0.00	41.2	94.2
773	4.67	34.385	0.43	3.28	106.	0.00	42.2	83.3
919	4.18	34.428	0.54	3.26	116.	0.00	46.30	74.6
1123	3.61	34.482	0.79	3.22	131.	0.00	42.8	65.4

Z	T	S	O2	SIGT	DT	DD
0	11.83	33.014	6.46	25.102	287.1	0.000
10	11.77	33.111	6.73	25.188	278.9	0.028
20	11.42	33.226	6.51	25.341	264.4	0.056
30	11.04	33.330	6.17	25.491	250.1	0.081
50	11.01	33.456	6.14	25.593	240.3	0.131
75	10.59	33.509	5.40	25.709	229.4	0.190
100	9.92	33.724	4.22	25.991	202.5	0.244
125	9.44	33.848	3.39	26.166	185.9	0.293
150	9.02	33.935	3.04	26.305	172.7	0.339
200	8.31	34.033	2.46	26.488	155.3	0.422
250	7.65	34.076	2.02	26.622	142.6	0.499
300	7.10	34.111	1.62	26.725	132.8	0.570
400	6.45	34.201	0.94	26.885	117.7	0.700
500	5.89	34.260	0.62	27.003	106.4	0.818
600	5.33	34.314	0.48	27.114	95.9	0.926
700	4.92	34.359	0.45	27.198	87.9	1.025
800	4.57	34.394	0.44	27.266	81.5	1.118
1000	3.90	34.451	0.63	27.382	70.5	1.287

RV ALEXANDER AGASSIZ — CALCOFI CRUISE 7202 — 67065

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
36 19.0N	123 08.5W	2/25/72	2210 GMT	2832M	320	8KT	2	320 3 6

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	12.22	33.47		25.381	260.5	0.000
10	11.51	33.46		25.507	248.6	0.025
20	11.53	33.50		25.534	246.0	0.050
30	11.50	33.54		25.570	242.5	0.075
50	11.30	33.56		25.622	237.6	0.123
75	9.42	33.70		26.055	196.4	0.177
100	8.65	33.83		26.274	175.6	0.224
125	8.42	33.95		26.408	162.9	0.267
150	8.13	33.96		26.460	158.0	0.308
200	7.78	34.04		26.574	147.1	0.386
250	7.17	34.06		26.677	137.4	0.459
300	6.84	34.09		26.746	130.8	0.528
400	6.33	34.17		26.877	118.4	0.657
500	5.51	34.21		27.012	105.6	0.775
600	4.98	34.28		27.129	94.5	0.882
700	4.72	34.35		27.214	86.4	0.979
800	4.43	34.38		27.270	81.1	1.071
1000	3.87	34.45		27.385	70.3	1.239

RV ALEXANDER AGASSIZ — CALCOFI CRUISE 7202 — 67070

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
36 08.0N	123 29.5W	2/26/72	0136 GMT	3493M	300	4KT	1	280 5 8

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	12.21	32.96		24.989	297.8	0.000
10	11.91	32.96		25.045	292.5	0.030
20	11.63	33.11		25.213	276.5	0.058
30	11.64	33.37		25.413	257.5	0.085
50	11.18	33.55		25.636	236.2	0.134
75	11.05	33.56		25.667	233.3	0.193
100	10.35	33.64		25.853	215.7	0.250
125	9.02	33.70		26.120	190.3	0.301
150	8.63	33.83		26.282	174.9	0.348
200	8.04	34.00		26.505	153.7	0.431
250	7.05	33.99		26.639	141.0	0.507
300	6.53	34.03		26.741	131.3	0.577
400	6.11	34.17		26.905	115.7	0.705
500	5.46	34.23		27.033	103.6	0.820
600	5.00	34.31		27.151	92.4	0.925
700	4.65	34.37		27.238	84.2	1.020
800	4.35	34.41		27.302	78.0	1.109
1000	3.73	34.48		27.423	66.7	1.270

RV ALEXANDER AGASSIZ — CALCOFI CRUISE 7202 — 70051

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
36 10.5N	121 46.0W	2/24/72	2010 GMT	403M	010	15KT	1	280 4 9

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	11.70	33.37		25.402	258.6	0.000
10	11.69	33.40		25.427	256.2	0.026
20	11.34	33.45		25.530	246.4	0.051
30	11.19	33.50		25.596	240.1	0.075
50	10.55	33.55		25.748	225.6	0.122
75	9.97	33.74		25.995	202.1	0.176
100	9.66	33.84		26.125	189.8	0.225
125	9.29	33.93		26.256	177.4	0.272
150	8.98	33.99		26.352	168.2	0.316
200	8.43	34.09		26.516	152.6	0.397
250	7.85	34.12		26.627	142.1	0.473

RV ALEXANDER AGASSIZ CALCOFI CRUISE 7202 70053

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
36 06.5N	121 54.0W	2/24/72	1546 GMT	977M	010	16KT	1	280 8 8

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	11.87	33.33		25.339	264.5	0.000
10	11.82	33.36		25.372	261.4	0.026
20	11.63	33.39		25.430	255.8	0.052
30	11.07	33.43		25.563	243.2	0.077
50	9.74	33.64		25.956	205.9	0.122
75	9.49	33.83		26.145	187.9	0.172
100	9.35	33.91		26.230	179.8	0.218
125	9.07	33.95		26.307	172.5	0.263
150	8.66	34.03		26.434	160.5	0.305
200	8.18	34.09		26.554	149.0	0.384
250	7.76	34.12		26.640	140.9	0.458
300	7.34	34.15		26.724	132.9	0.529
400	6.58	34.18		26.852	120.8	0.661
500	5.86	34.25		27.000	106.7	0.781
600	5.41	34.30		27.095	97.8	0.890
700	4.97	34.36		27.194	88.3	0.991
800	4.58	34.41		27.277	80.4	1.083

RV ALEXANDER AGASSIZ CALCOFI CRUISE 7202 70053

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
36 06.5N	121 54.0W	2/24/72	1705 GMT	977M	010	16KT	1	280 8 8

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT
0	11.61	33.327	6.38	0.54	6.	0.08	3.1	263.7
9	11.59	33.362	6.43	0.55	7.	0.09	3.5	257.2
30	10.71	33.524	5.52	0.98	12.	0.07	10.0	230.2
55	9.54	33.620	4.34	1.47	20.	0.00	18.4	204.2
70	9.55	33.686	3.99	1.55	22.	0.00	18.3	199.5
85	9.41	33.887	3.27	1.84	28.	0.00	22.5	182.4
100	9.27	33.920	3.01	1.91	29.	0.00	25.9	177.8
131	8.90	33.963	2.90	2.01	33.	0.00	28.0	167.5
156	8.65	34.034	2.53	2.14	37.	0.00	28.4	160.0
181	8.43	34.057	2.41	2.20	39.	0.00	29.4	155.1
216	8.00	34.079	2.21	2.35	45.	0.00	33.1	147.3
280	7.53	34.127	1.76	2.53	51.	0.00	34.8	137.2
380	6.67	34.244 U	0.91	2.81	64.	0.00	39.6	
479	6.04	34.240	0.81	3.06	76.	0.00	43.1	109.6
613	5.31	34.305	0.50	3.22	91.	0.00	43.8	96.2
768	4.75	34.394	0.48	3.29	104.	0.00		83.4
923	4.17	34.448	0.60	3.26	119.	0.00		73.4

Z	T	S	O2	SIGT	DT	DD
0	11.81	33.327	6.38	25.348	263.7	0.000
10	11.55	33.371	6.40	25.428	256.1	0.026
20	11.17	33.446	6.05	25.557	243.8	0.051
30	10.71	33.524	5.52	25.700	230.2	0.075
50	9.72	33.605	4.55	25.931	208.2	0.119
75	9.51	33.757	3.74	26.083	193.8	0.169
100	9.27	33.920	3.01	26.251	177.8	0.216
125	8.97	33.973	2.91	26.339	169.5	0.260
150	8.71	34.024	2.62	26.421	161.7	0.302
200	8.20	34.070	2.31	26.535	150.8	0.382
250	7.73	34.106	1.98	26.633	141.6	0.457
300	7.36	34.138	1.57	26.712	134.1	0.528
400	6.53	34.187	0.89	26.863	119.7	0.660
500	5.91	34.251	0.76	26.994	107.3	0.780
600	5.37	34.300	0.53	27.098	97.4	0.889
700	4.98	34.357	0.49	27.190	88.7	0.990
800	4.63	34.409	0.49	27.270	81.1	1.083

RV ALEXANDER AGASSIZ CALCOFI CRUISE 7202 70060

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
35 53.5N	122 24.0W	2/24/72	1014 GMT	2502M	360	7KT	1	49

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	12.51	33.39		25.264	271.7	0.000
10	12.39	33.39		25.287	269.5	0.027
20	11.88	33.40		25.392	259.5	0.054
30	11.74	33.40		25.418	257.0	0.079
50	11.22	33.52		25.606	239.1	0.129
75	10.52	33.65		25.831	217.7	0.187
100	9.62	33.83		26.124	189.9	0.238
125	8.96	33.93		26.309	172.4	0.284
150	8.89	34.06		26.421	161.6	0.326
200	7.89	34.06		26.574	147.2	0.405
250	7.73	34.13		26.652	139.7	0.479
300	7.34	34.18		26.747	130.7	0.549
400	6.38	34.21		26.902	116.0	0.677
500	6.03	34.28		27.002	106.5	0.795
600	5.43	34.32		27.108	96.5	0.903
700	5.00	34.36		27.190	88.7	1.003
800	4.62	34.41		27.273	80.8	1.096
1000	4.01	34.48		27.394	69.4	1.264

RV ALEXANDER AGASSIZ CALCOFI CRUISE 7202 70060

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
35 53.5N	122 24.0W	2/24/72	1127 GMT	2502M	360	7KT		49

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT
1	12.45	33.383	6.44	0.40	5.	0.07	1.4	271.1
11	12.37	33.372	6.48	0.41	5.	0.06	1.0	270.4
31	11.79	33.41	6.35	0.51	6.	0.15	1.9	257.2
56	10.98	33.549	5.29	1.01	12.	0.14	10.1	232.9
71	10.54	33.612	4.54	1.27	15.	0.04	15.1	220.9
88	10.10	33.670	4.12	1.50	19.	0.04	16.6	209.4
101	9.50	33.815	3.53	1.82	24.	0.04	22.1	189.1
131	8.96	33.928	3.30	2.09	29.	0.04	25.1	172.5
157	8.92	34.026	2.73	1.98	34.	0.01	21.8	164.6
181	8.42	34.026	2.95	2.12	36.	0.02	26.4	157.2
216	7.80	34.031	2.83	2.52	42.	0.01	28.4	140.1
282	7.53	34.127	1.76	2.91	51.	0.00	32.5	137.2
382	6.88	34.214	1.00	3.04	64.	0.00	37.2	122.1
482	6.15	34.256	0.58	2.90U	76.	0.00	42.3	109.0
618	5.29	34.302	0.42	3.22	92.	0.00		96.5
772	4.70	34.385	0.45	3.37	105.	0.00	44.6	83.0
918	4.18	34.445	0.57	3.34	116.	0.00	41.8U	73.7
1120	3.59	34.501	0.77	3.26	129.	0.00	45.8	63.6

Z	T	S	O2	SIGT	DT	DD
0	12.45	33.383	6.44	25.270	271.1	0.000
10	12.38	33.375	6.48	25.276	270.5	0.027
20	11.93	33.396	6.42	25.374	261.2	0.054
30	11.80	33.410	6.36	25.413	257.5	0.080
50	11.20	33.513	5.60	25.603	239.4	0.130
75	10.45	33.622	4.44	25.819	218.8	0.187
100	9.55	33.805	3.57	26.115	190.7	0.239
125	9.00	33.919	3.35	26.293	173.8	0.285
150	8.94	34.006	2.86	26.371	166.5	0.328
200	8.05	34.028	2.88	26.523	152.0	0.409
250	7.60	34.077	2.32	26.629	141.9	0.485
300	7.43	34.148	1.57	26.709	134.3	0.556
400	6.75	34.224	0.90	26.863	119.7	0.688
500	6.02	34.262	0.56	26.989	107.8	0.808
600	5.39	34.296	0.44	27.093	97.9	0.918
700	4.95	34.347	0.44	27.185	89.2	1.019
800	4.60	34.399	0.47	27.266	81.5	1.113
1000	3.92	34.472	0.65	27.396	69.1	1.280

RV ALEXANDER AGASSIZ CALCOFI CRUISE 7202 70065

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
35 45.0N	122 45.0W	2/24/72	0728 GMT	2456M	310	6KT		49

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	12.10	33.05		25.079	289.2	0.000
10	12.13	33.18		25.174	280.2	0.028
20	11.97	33.32		25.313	267.0	0.056
30	11.68	33.34		25.382	260.4	0.082
50	11.20	33.40		25.516	247.6	0.133
75	10.81	33.57		25.718	228.5	0.193
100	9.88	33.70		25.979	203.6	0.248
125	9.56	33.93		26.212	181.6	0.296
150	8.92	33.95		26.331	170.3	0.341
200	8.51	34.07		26.488	155.3	0.424
250	7.55	34.03		26.600	144.7	0.501
300	6.84	34.07		26.730	132.3	0.572
400	6.32	34.20		26.902	116.0	0.701
500	5.86	34.28		27.024	104.5	0.818
600	5.33	34.33		27.128	94.6	0.924
700	4.89	34.39		27.227	85.2	1.021
800	4.47	34.42		27.297	78.5	1.111
1000	3.85	34.48		27.410	67.8	1.274

RV ALEXANDER AGASSIZ CALCOFI CRUISE 7202 70070

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
35 33.0N	123 05.5W	2/24/72	0449 GMT	3830M	360	6KT	0	49

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	12.12	32.99		25.029	294.0	0.000
10	11.84	32.96		25.058	291.2	0.029
20	11.51	33.06		25.197	278.1	0.058
30	11.29	33.13		25.291	269.1	0.085
50	10.71	33.38		25.588	240.8	0.136
75	9.42	33.55		25.938	207.5	0.193
100	9.15	33.86		26.224	180.4	0.242
125	8.64	33.87		26.312	172.0	0.286
150	8.28	33.94		26.422	161.6	0.329
200	7.62	34.00		26.566	147.9	0.407
250	6.96	34.01		26.667	138.3	0.481
300	6.46	34.04		26.758	129.7	0.550
400	6.27	34.21		26.916	114.7	0.677
500	5.73	34.28		27.040	102.9	0.792
600	5.17	34.35		27.163	91.3	0.895
700	4.83	34.39		27.234	84.6	0.991
800	4.45	34.44		27.315	76.8	1.079
1000	3.86	34.49		27.417	67.2	1.240

RV ALEXANDER AGASSIZ CALCOFI CRUISE 7202 70080

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
35 13.0N	123 47.5W	2/23/72	1945 GMT	4062M	010	10KT	1	240 8 9

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	12.43	32.94		24.932	303.3	0.000
10	12.35	32.94		24.947	301.8	0.030
20	12.34	32.96		24.964	300.2	0.060
30	12.33	32.96		24.966	300.0	0.090
50	12.36	32.98		24.976	299.1	0.151
75	11.58	32.83		25.006	296.3	0.225
100	11.40	33.25		25.364	262.2	0.296
125	10.50	33.30		25.563	243.3	0.359
150	9.29	33.49		25.913	210.0	0.417
200	8.43	33.89		26.360	167.5	0.513
250	7.59	34.00		26.571	147.5	0.593
300	6.96	34.02		26.675	137.6	0.667
400	6.02	34.12		26.877	118.4	0.800
500	5.53	34.20		27.001	106.6	0.918
600	4.97	34.27		27.123	95.1	1.025
700	4.63	34.38		27.226	85.3	1.122
800	4.42	34.41		27.295	78.8	1.212
1000	3.87	34.47		27.400	68.8	1.376

RV ALEXANDER AGASSIZ CALCOFI CRUISE 7202 70080

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
35 13.0N	123 47.5W	2/23/72	2104 GMT	4062M	010	10KT	1	240 8 9

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
0	12.56	32.956	6.21	0.38	1.	0.00	0.0	304.5	0	12.56	32.956	6.21	24.919	304.5	0.000
10		32.953	6.23	0.33	3.	0.00	0.0		10	12.48	32.953	6.23	24.935	303.0	0.030
31	12.36	32.958	6.30	0.39	2.	0.01	0.0	300.7	20	12.42	32.960	6.26	24.948	301.7	0.061
56	12.29	32.955	6.70U	0.41	1.	0.00	0.0	299.7	30	12.36	32.961	6.30	24.958	300.8	0.091
71	11.90	32.896	6.29	0.39	1.	0.00	0.0	297.0	50	12.31	32.957	6.30	24.966	300.0	0.151
86	11.16	32.840	6.25	0.47	2.	0.06	0.3	288.3	75	11.68	32.867	6.28	25.015	295.4	0.226
101	11.31	33.111	6.19	0.65	3.	0.09	1.9	270.9	100	11.29	33.092	6.20	25.259	272.1	0.297
131	10.47	33.294	5.51	0.95	9.	0.00	7.9	243.2	125	10.72	33.278	5.69	25.504	248.8	0.363
156	9.28	33.462	4.74	1.41	16.	0.00	13.4	211.9	150	9.55	33.419	4.93	25.814	219.4	0.422
181	8.93	33.687	4.14	1.71	24.	0.00	19.1	189.9	200	8.59	33.807	3.83	26.268	176.2	0.523
216	8.30	33.878	3.62	1.84	31.	0.00	21.5	166.5	250	7.74	33.956	3.16	26.513	152.9	0.607
282	7.26	33.980	2.76	2.29	44.	0.00	28.6	144.5	300	7.00	33.995	2.56	26.648	140.1	0.682
382	6.05	34.046	1.76	2.66	65.	0.00	33.7	124.3	400	5.93	34.068	1.58	26.847	121.3	0.818
482	5.52	34.160	0.88	3.03	78.	0.01	42.8U	109.5	500	5.40	34.171	0.80	26.993	107.4	0.938
617	4.72	34.232	0.52	3.28	98.	0.00	43.8	95.3	600	4.81	34.224	0.53	27.104	96.8	1.046
772	4.53	34.391	0.41	3.39	108.	0.00	42.2	81.3	700	4.59	34.320	0.46	27.204	87.3	1.145
918	4.08	34.444	0.49	3.30U	116.	0.00	42.5	72.8	800	4.45	34.406	0.41	27.288	79.5	1.236
1120	3.53	34.496	0.75	3.49	129.	0.01	43.0	63.6	1000	3.85	34.469	0.57	27.401	68.7	1.401

RV ALEXANDER AGASSIZ CALCOFI CRUISE 7202 70090

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
34 53.0N	124 30.0W	2/23/72	1415 GMT	4212M	260	8KT	1	290 8 9

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
									0	12.43	32.91		24.908	305.5	0.000
									10	12.43	32.92		24.916	304.8	0.031
									20	12.42	32.92		24.918	304.6	0.061
									30	12.35	32.92		24.931	303.3	0.091
									50	12.11	32.95		25.000	296.8	0.152
									75	11.61	32.94		25.085	288.7	0.225
									100	10.71	32.94		25.246	273.3	0.296
									125	10.50	33.10		25.407	258.1	0.363
									150	10.55	33.49		25.701	230.1	0.425
									200	9.08	33.81		26.196	183.1	0.530
									250	8.56	34.01		26.434	160.5	0.618
									300	8.10	34.13		26.598	144.9	0.696
									400	7.13	34.17		26.769	128.6	0.839
									500	6.42	34.26		26.936	112.8	0.966
									600	5.70	34.29		27.051	101.9	1.081
									700	4.93	34.30		27.151	92.4	1.186
									800	4.63	34.36		27.232	84.7	1.282
									1000	4.07	34.45		27.364	72.2	1.457

RV ALEXANDER AGASSIZ CALCOFI CRUISE 7202 73050

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
35 37.0N	121 17.5W	2/22/72	0804 GMT	104M	090	8KT	6	49

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
									0	11.58	33.54		25.556	243.9	0.000
									10	11.49	33.53		25.564	243.1	0.024
									20	11.36	33.55		25.604	239.3	0.049
									30	10.78	33.64		25.778	222.8	0.072
									50	10.49	33.70		25.875	213.5	0.115
									75	10.37	33.72		25.911	210.1	0.169

RV ALEXANDER AGASSIZ CALCOFI CRUISE 7202 73053

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
35 31.5N	121 28.5W	2/22/72	1106 GMT	744M	020	7KT	4	49

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
									0	12.09	33.50		25.429	255.9	0.000
									10	11.88	33.53		25.492	249.9	0.025
									20	11.82	33.52		25.496	249.6	0.050
									30	11.58	33.52		25.540	245.4	0.075
									50	10.40	33.65		25.852	215.7	0.121
									75	9.93	33.81		26.056	196.3	0.173
									100	9.44	33.89		26.200	182.7	0.221
									125	9.25	33.96		26.286	174.5	0.266
									150	8.92	34.02		26.385	165.1	0.309
									200	8.47	34.11		26.526	151.7	0.390
									250	7.94	34.16		26.645	140.4	0.465
									300	7.42	34.18		26.736	131.8	0.536
									400	6.54	34.23		26.897	116.5	0.665
									500	5.81	34.28		27.030	103.9	0.781
									600	5.32	34.34		27.137	93.7	0.887

RV ALEXANDER AGASSIZ CALCOFI CRUISE 7202 73060

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
35 18.0N	121 57.5W	2/22/72	1442 GMT	2410M	340	5KT	1	250 8 9

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
									0	11.89	33.31		25.320	266.3	0.000
									10	11.87	33.32		25.331	265.2	0.027
									20	11.21	33.25		25.398	258.9	0.053
									30	11.07	33.25		25.423	256.5	0.079
									50	11.25	33.53		25.608	238.9	0.128
									75	10.75	33.59		25.736	226.7	0.187
									100	9.57	33.71		26.038	198.0	0.240
									125	9.51	33.95		26.235	179.3	0.288
									150	9.15	34.04		26.364	167.1	0.332
									200	8.71	34.13		26.504	153.8	0.414
									250	8.32	34.16		26.588	145.8	0.491
									300	7.30	34.06		26.659	139.1	0.564
									400	6.78	34.23		26.864	119.6	0.699
									500	6.08	34.30		27.012	105.6	0.818
									600	5.59	34.34		27.111	96.2	0.926
									700	4.96	34.37		27.203	87.5	1.026
									800	4.60	34.42		27.283	79.9	1.117
									1000	4.12	34.47		27.375	71.2	1.286

RV ALEXANDER AGASSIZ CALCOFI CRUISE 7202 73060

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
35 18.0N	121 57.5W	2/22/72	1555 GMT	2410M	340	5KT	1	250 8 9

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
1	11.88	33.378 0	6.45	0.45	6.	0.00	2.4		0	11.88	33.280	6.45	25.299	268.4	0.000
10	11.90	33.297	6.47	0.45	6.	0.01	2.4	267.5	10	11.90	33.297	6.47	25.308	267.5	0.027
31	11.05	33.423	6.17	0.73	9.	0.11	6.2	243.0	20	11.10	33.300	6.33	25.457	253.3	0.053
56	10.86	33.642	4.71	1.18	14.	0.09	12.5	224.0	30	11.04	33.416	6.18	25.556	243.8	0.078
71	10.01	33.642	4.32	1.44	18.	0.02	18.1	210.0	50	10.90	33.592	5.07	25.717	228.5	0.125
87	9.57	33.707	3.96	1.60	21.	0.01	22.3	198.2	75	9.87	33.652	4.24	25.942	207.2	0.180
100	9.27	33.839	3.51	1.78	25.	0.00	20.7	183.8	100	9.27	33.839	3.51	26.188	183.8	0.229
130	9.23	34.006	3.20	2.04	30.	0.00	27.9	170.7	125	9.24	33.997	3.23	26.315	171.7	0.274
155	8.97	34.046	2.54	2.16	34.	0.00	24.6	163.9	150	9.03	34.044	2.71	26.386	165.0	0.317
182	8.81	34.073	2.41	2.23	36.	0.00	25.6	159.5	200	8.65	34.102	2.26	26.491	155.1	0.399
214	8.52	34.117	2.18	2.37	40.	0.00	29.3	151.9	250	8.09	34.114	2.21	26.585	146.0	0.476
270	7.75	34.102	2.28	2.45	46.	0.00	35.1	142.1	300	7.54	34.110	2.14	26.663	138.7	0.549
375	5.94	34.159		2.85	58.	0.00	33.40	127.0	400	6.77	34.188	1.38	26.832	122.7	0.686
472	5.34	34.268	0.72	3.16	72.	0.00	44.80	111.2	500	6.17	34.287	0.63	26.989	107.8	0.807
602	5.57	34.328	0.48	3.34	87.	0.01	42.0	97.5	600	5.58	34.328	0.48	27.096	97.7	0.917
751	4.74	34.375	0.43	3.44	105.	0.01	41.6	84.7	700	4.99	34.360	0.45	27.190	88.7	1.018
895	4.38	34.439	0.57	3.42	113.	0.01		76.2	800	4.60	34.398	0.47	27.266	81.5	1.111
1095	3.82	34.483	0.65	3.39	123.	0.01		67.3	1000	4.09	34.469	0.63	27.376	71.1	1.281

RV ALEXANDER AGASSIZ CALCOFI CRUISE 7202 73065

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
35 06.0N	122 20.5W	2/22/72	1931 GMT	4014M	170	6KT	4	290 10 9

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
									0	13.04	33.34		25.122	285.2	0.000
									10	12.54	33.35		25.227	275.1	0.028
									20	12.04	33.35		25.323	266.1	0.055
									30	11.88	33.39		25.384	260.3	0.081
									50	11.52	33.53		25.559	243.6	0.132
									75	10.28	33.59		25.826	218.2	0.190
									100	9.53	33.74		26.068	195.2	0.242
									125	9.08	33.95		26.305	172.7	0.289
									150	8.89	34.01		26.382	165.4	0.332
									200	8.40	34.07		26.505	153.7	0.413
									250	7.49	34.03		26.609	143.9	0.489
									300	7.09	34.10		26.720	133.3	0.561
									400	6.74	34.26		26.893	116.8	0.691
									500	5.68	34.23		27.007	106.1	0.809
									600	4.96	34.26		27.116	95.7	0.916
									700	4.98	34.40		27.224	85.5	1.014
									800	4.59	34.43		27.292	79.0	1.104
									1000	3.83	34.47		27.405	68.4	1.269

RV ALEXANDER AGASSIZ CALCOFI CRUISE 7202 73070

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
34 57.0N	122 41.0W	2/22/72	2251 GMT	4053M	200	4KT	1	220 8 7

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	11.66	32.89		25.038	293.2	0.000
10	11.59	32.91		25.066	290.5	0.029
20	11.04	32.87		25.134	284.1	0.058
30	10.59	32.93		25.260	272.1	0.086
50	11.19	33.29		25.433	255.6	0.139
75	10.47	33.47		25.700	230.2	0.200
100	9.31	33.47		25.894	211.8	0.256
125	9.06	33.78		26.176	185.0	0.306
150	8.43	33.90		26.368	166.7	0.350
200	7.50	34.01		26.591	145.5	0.430
250	6.89	34.05		26.708	134.4	0.501
300	6.63	34.10		26.782	127.4	0.569
400	5.77	34.12		26.909	115.4	0.695
500	5.30	34.21		27.037	103.2	0.810
600	4.98	34.29		27.137	93.7	0.915
700	4.62	34.36		27.233	84.6	1.011
800	4.39	34.42		27.306	77.7	1.099
1000	3.82	34.49		27.421	66.8	1.261

RV ALEXANDER AGASSIZ CALCOFI CRUISE 7202 73080

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
34 38.5N	123 21.5W	2/23/72	0343 GMT	4147M	020	7KT		49

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	12.23	32.88		24.923	304.1	0.000
10	11.59	32.65		25.019	295.0	0.030
20	11.07	32.85		25.113	286.0	0.059
30	11.08	32.88		25.135	284.0	0.088
50	10.41	33.01		25.353	263.2	0.142
75	10.26	33.10		25.448	254.1	0.207
100	9.78	33.18		25.591	240.6	0.270
125	9.42	33.51		25.907	210.5	0.327
150	8.89	33.75		26.179	184.7	0.377
200	8.36	33.96		26.425	161.3	0.465
250	7.52	34.01		26.588	145.8	0.543
300	7.01	34.04		26.684	136.7	0.616
400	6.13	34.10		26.848	121.2	0.750
500	5.38	34.19		27.011	105.7	0.869
600	4.96	34.24		27.100	97.2	0.977
700	4.54	34.31		27.203	87.5	1.076
800	4.27	34.38		27.287	79.5	1.167
1000	3.78	34.46		27.402	68.7	1.331

RV ALEXANDER AGASSIZ CALCOFI CRUISE 7202 73090

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
34 19.0N	124 04.0W	2/23/72	0839 GMT	3775M	280	11KT	0	280 8 8

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	12.72	32.94		24.876	308.6	0.000
10	12.63	32.93		24.885	307.7	0.031
20	12.38	32.94		24.941	302.4	0.061
30	12.29	32.96		24.974	299.3	0.092
50	12.17	32.96		24.997	297.1	0.151
75	11.54	32.90		25.067	290.4	0.225
100	11.04	32.98		25.219	275.9	0.296
125	9.89	33.05		25.472	251.9	0.363
150	9.34	33.35		25.795	221.1	0.423
200	9.02	33.82		26.213	181.4	0.525
250	8.33	34.01		26.469	157.1	0.612
300	7.73	34.08		26.613	143.4	0.689
400	6.71	34.12		26.787	126.9	0.830
500	5.96	34.19		26.940	112.4	0.956
600	5.44	34.27		27.067	100.3	1.069
700	4.90	34.33		27.178	89.8	1.171
800	4.53	34.38		27.259	82.2	1.265
1000	3.94	34.46		27.385	70.2	1.435

RV ALEXANDER AGASSIZ CALCOFI CRUISE 7202 77048

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
35 08.0N	120 43.0W	2/17/72	1844 GMT	34M	210	10KT	4	300 2 9

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	11.45	33.60		25.626	237.2	0.000
10	11.36	33.59		25.635	236.4	0.024
20	10.70	33.59		25.753	225.2	0.047

RV ALEXANDER AGASSIZ CALCOFI CRUISE 7202 77051

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
35 02.0N	120 56.5W	2/17/72	1550 GMT	272M	270	2KT	1	270 5 7

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	11.79	33.42		25.424	256.5	0.000
10	11.58	33.44		25.478	251.3	0.025
20	11.54	33.48		25.516	247.6	0.050
30	11.55	33.49		25.522	247.1	0.075
50	10.92	33.54		25.675	232.5	0.123
75	10.45	33.73		25.905	210.7	0.179
100	9.93	33.79		26.041	197.8	0.231
125	9.66	33.84		26.125	189.8	0.280
150	8.93	33.96		26.337	169.7	0.325
200	8.23	34.11		26.562	148.3	0.406

RV ALEXANDER AGASSIZ CALCOFI CRUISE 7202 77051

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
35 02.0N	120 56.5W	2/17/72	1634 GMT	272M	270	2KT	1	270 5 7

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT
0	11.66	33.426	6.25	0.57	7.	0.03	4.7	253.7
11	11.54	33.437	6.14	0.62	8.	0.04	5.6	250.8
32	11.31	33.512	5.81	0.81	9.	0.08	7.9	241.3
42	11.00	33.546	5.28	1.01	11.	0.03	11.1	233.5
58	10.90	33.636	4.75	1.17	15.	0.01	14.0	225.1
73	10.71	33.668	4.46	1.27	16.	0.00	16.7	219.6
88	10.07	33.755	3.91	1.57	21.	0.00	20.5	202.6
108	9.71	33.809		1.73	24.	0.00	24.8	192.9
128	9.36	33.862	3.48	1.83	26.	0.00	25.4	183.5
153	8.82	33.953	3.34	1.87	30.	0.00	23.00	168.6
179	8.67	34.024	2.86	2.09	35.	0.00	28.7	161.1
205	8.39	34.081	2.42	2.30	40.	0.00	33.6	152.7
232	8.11		2.45	2.40	42.	0.00	33.4	

Z	T	S	O2	SIGT	DT	DD
0	11.66	33.426	6.25	25.453	253.7	0.000
10	11.55	33.437	6.15	25.480	251.1	0.025
20	11.48	33.467	6.07	25.517	247.6	0.050
30	11.34	33.505	5.87	25.570	242.5	0.075
50	10.93	33.594	4.98	25.714	228.8	0.122
75	10.63	33.681	4.39	25.835	217.4	0.178
100	9.82	33.794	3.78	26.061	195.9	0.230
125	9.41	33.855	3.51	26.176	185.0	0.278
150	8.88	33.943	3.36	26.331	170.2	0.324
200	8.45	34.071	2.49	26.498	154.4	0.406

RV ALEXANDER AGASSIZ CALCOFI CRUISE 7202 77055

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
34 54.5N	121 12.5W	2/17/72	1320 GMT	558M	020	11KT	0	49

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	11.59	33.43		25.469	252.2	0.000
10	11.60	33.43		25.467	252.4	0.025
20	11.60	33.47		25.498	249.4	0.050
30	11.59	33.48		25.507	248.5	0.075
50	10.85	33.58		25.719	228.4	0.123
75	10.21	33.71		25.931	208.2	0.178
100	9.59	33.84		26.136	188.7	0.228
125	9.42	33.93		26.234	179.4	0.275
150	9.17	34.00		26.330	170.3	0.319
200	8.66	34.07		26.465	157.5	0.403
250	7.89	34.12		26.621	142.7	0.480
300	7.58	34.17		26.705	134.7	0.551
400	6.62	34.21		26.870	119.0	0.684
500	6.10	34.27		26.985	108.1	0.803

RV ALEXANDER AGASSIZ CALCOFI CRUISE 7202 77060

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
34 44.5N	121 33.5W	2/17/72	0951 GMT	935M	340	11KT	0	49

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	12.46	33.32		25.219	275.9	0.000
10	12.46	33.32		25.219	275.9	0.028
20	12.46	33.33		25.227	275.2	0.055
30	12.46	33.33		25.227	275.2	0.083
50	12.43	33.33		25.233	274.6	0.138
75	10.55	33.43		25.655	234.5	0.202
100	10.03	33.63		25.891	212.0	0.258
125	9.42	33.81		26.141	188.3	0.309
150	8.94	33.92		26.304	172.8	0.355
200	8.14	34.03		26.513	152.9	0.438
250	7.42	34.03		26.618	142.9	0.513
300	6.88	34.05		26.709	134.3	0.585
400	6.10	34.15		26.891	117.1	0.715
500	5.72	34.26		27.025	104.3	0.832

RV ALEXANDER AGASSIZ CALCOFI CRUISE 7202 77060

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
34 44.5N	121 33.5W	2/17/72	1017 GMT	935M	340	11KT	0	49

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT
0	12.40	33.326	6.19	0.30	2.	0.01	0.5	274.3
10	12.44	33.325	6.20	0.27	2.	0.01	0.4	275.2
30	12.42	33.324	6.22	0.30	2.	0.01	0.5	274.9
40	12.41	33.330	6.23	0.27	2.	0.01	0.7	274.2
50	12.37	33.323	6.19	0.30	2.	0.02	0.7	274.0
65	11.23	33.354	5.56	0.66	7.	0.00	7.4	251.6
80	10.47	33.424	5.64	0.89	10.	0.00	11.3	233.6
100	10.08	33.602	4.51	1.20	16.	0.01	17.3	214.1
125	9.48	33.764	3.73	1.60	23.	0.01	24.4	192.6
145	9.04	33.887	3.48	1.67	27.	0.00	27.4	176.7
175	8.56	33.956	3.23	1.77	32.	0.00	29.2	164.5
204	8.04	34.004	2.96	1.94	37.	0.00	30.0	153.4
234	7.58	34.013	2.89	2.06	42.	0.01	32.9	146.4
274	7.10	34.008	2.72	2.16	47.	0.01	35.8	140.3
333	6.66	34.049	1.99	2.45	57.	0.00	40.2	131.6
405	6.13	34.109	1.28	2.68	66.	0.00	44.8	120.5
477	5.69	34.190	0.79	2.93	76.	0.00	47.30	109.2
553	5.44	34.281	0.50	3.05	89.	0.00	44.8	99.5

Z	T	S	O2	SIGT	DT	DD
0	12.40	33.326	6.19	25.236	274.3	0.000
10	12.44	33.325	6.20	25.227	275.2	0.027
20	12.43	33.327	6.21	25.229	275.0	0.055
30	12.42	33.324	6.22	25.230	274.9	0.083
50	12.37	33.323	6.19	25.239	274.0	0.138
75	10.68	33.398	5.62	25.606	239.2	0.202
100	10.08	33.602	4.51	25.869	214.1	0.259
125	9.48	33.764	3.73	26.095	192.6	0.311
150	8.95	33.905	3.43	26.289	174.2	0.357
200	8.11	34.000	2.99	26.493	154.8	0.441
250	7.37	34.012	2.64	26.610	143.7	0.518
300	6.89	34.023	2.43	26.687	136.5	0.590
400	6.17	34.106	1.32	26.847	121.3	0.723
500	5.59	34.218	0.68	27.007	106.0	0.843

RV ALEXANDER AGASSIZ CALCOFI CRUISE 7202 77065

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
34 33.0N	121 54.0W	2/17/72	0628 GMT	3918M	340	18KT		

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	12.93	33.35		25.151	282.4	0.000
10	12.94	33.36		25.157	281.9	0.028
20	12.94	33.37		25.164	281.1	0.056
30	12.94	33.37		25.164	281.1	0.085
50	12.95	33.37		25.163	281.3	0.141
75	10.67	33.37		25.587	240.9	0.207
100	9.65	33.62		25.955	205.9	0.263
125	9.17	33.87		26.228	180.0	0.312
150	9.01	33.98		26.340	169.4	0.356
200	8.35	34.06		26.505	153.7	0.438
250	7.70	34.09		26.625	142.3	0.514
300	7.11	34.13		26.740	131.3	0.585
400	5.85	34.14		26.915	114.8	0.713
500	5.35	34.22		27.039	103.1	0.827
600	4.89	34.30		27.155	92.0	0.931
700	4.62	34.37		27.241	83.9	1.026
800	4.45	34.44		27.315	76.8	1.114
1000	3.86	34.49		27.417	67.2	1.275

RV ALEXANDER AGASSIZ CALCOFI CRUISE 7202 77070

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
34 25.0N	122 15.0W	2/17/72	0115 GMT	3957M	350	18KT	1	340 11 6

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	12.45	33.33		25.229	275.0	0.000
10	12.45	33.33		25.229	275.0	0.028
20	12.43	33.33		25.233	274.6	0.055
30	12.05	33.46		25.406	258.1	0.082
50	11.34	33.47		25.545	244.9	0.132
75	10.63	33.61		25.781	222.5	0.191
100	9.76	33.69		25.991	202.5	0.245
125	9.22	33.83		26.189	183.7	0.293
150	8.86	33.94		26.332	170.1	0.338
200	7.94	34.01		26.527	151.6	0.420
250	7.09	34.03		26.665	138.5	0.495
300	6.69	34.06		26.743	131.1	0.564
400	6.39	34.24		26.924	113.9	0.692
500	5.86	34.30		27.040	103.0	0.806
600	5.31	34.36		27.154	92.1	0.910
700	4.85	34.40		27.239	84.0	1.006
800	4.40	34.43		27.313	77.1	1.094
1000	3.83	34.49		27.420	66.9	1.255

RV ALEXANDER AGASSIZ — CALCOFI CRUISE 7202 — 77080

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
34 05.0N	122 56.0W	2/16/72	2003 GMT	4241M	350	14KT	1	340 11 6

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	11.27	32.93		25.139	283.5	0.000
10	11.23	32.94		25.154	282.1	0.028
20	11.23	32.97		25.178	279.9	0.056
30	11.20	32.98		25.191	278.6	0.084
50	11.00	32.99		25.234	274.5	0.140
75	10.49	33.05		25.370	261.6	0.207
100	9.78	33.18		25.591	240.6	0.270
125	9.15	33.62		26.036	198.2	0.326
150	8.68	33.81		26.259	177.1	0.373
200	7.80	33.94		26.524	151.9	0.457
250	7.20	34.04		26.657	139.2	0.532
300	6.73	34.06		26.737	131.6	0.601
400	5.71	34.10		26.900	116.2	0.730
500	5.25	34.19		27.027	104.2	0.846
600	4.95	34.29		27.141	93.4	0.951
700	4.65	34.38		27.246	83.4	1.046
800	4.32	34.42		27.314	77.0	1.134
1000	3.66	34.48		27.430	66.0	1.293

RV ALEXANDER AGASSIZ — CALCOFI CRUISE 7202 — 77090

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
33 45.5N	123 39.0W	2/16/72	1429 GMT	4864M	360	23KT	1	360 10 5

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	11.64	32.91		25.057	291.4	0.000
10	11.64	32.92		25.064	290.7	0.029
20	11.65	32.93		25.070	290.1	0.058
30	11.65	32.93		25.070	290.1	0.087
50	11.65	32.93		25.070	290.1	0.145
75	11.56	32.93		25.087	288.5	0.218
100	11.16	32.99		25.206	277.2	0.289
125	9.96	33.24		25.608	239.0	0.354
150	9.19	33.45		25.897	211.4	0.411
200	8.51	33.94		26.387	164.9	0.507
250	7.64	33.99		26.555	148.9	0.587
300	6.99	34.03		26.678	137.2	0.661
400	5.97	34.08		26.852	120.8	0.795
500	5.59	34.22		27.010	105.8	0.914
600	5.07	34.28		27.119	95.5	1.021
700	4.77	34.36		27.217	86.2	1.119
800	4.47	34.41		27.289	79.3	1.210
1000	3.84	34.48		27.411	67.7	1.373

RV ALEXANDER AGASSIZ — CALCOFI CRUISE 7202 — 80051

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
34 26.0N	120 32.5W	2/13/72	1016 GMT	101M	310	10KT	0	

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	12.54	33.33		25.212	276.6	0.000
10	12.53	33.35		25.229	275.0	0.028
20	12.16	33.36		25.308	267.5	0.055
30	11.34	33.41		25.499	249.3	0.081
50	10.46	33.48		25.709	229.3	0.129
75	9.50	33.53		25.890	212.1	0.164

RV ALEXANDER AGASSIZ — CALCOFI CRUISE 7202 — 80052

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
34 24.5N	120 36.5W	2/13/72	0825 GMT	321M	330	20KT	0	49

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT
0	12.32	33.326	6.35	0.44	4.	0.06	0.2	272.9
10	12.31	33.324	6.33	0.41	4.	0.07	0.8	272.9
20	12.22	33.364	6.33	0.44	4.	0.07	1.1	268.3
29	11.39	33.416	6.05	0.71	7.	0.22	5.1	249.7
53	10.23	33.542	5.01	1.18	15.	0.03	12.0	221.0
77	9.43	33.662	4.29	1.52	20.	0.02	16.4	199.4
100	9.55	33.893	3.27	1.80	27.	0.02	20.4	184.1
124	9.35	33.999	2.89	1.99	30.	0.02	22.8	173.2
147	9.17	34.074	2.71	2.10	33.	0.02	23.6	164.9
199	8.73	34.110	2.32	2.23	38.	0.01	24.4	155.6
244	8.50	34.149	1.92	2.41	43.	0.02	28.5	149.3

Z	T	S	O2	SIGT	DT	DD
0	12.32	33.326	6.35	25.251	272.9	0.000
10	12.31	33.324	6.33	25.251	272.9	0.027
20	12.22	33.364	6.33	25.300	268.3	0.054
30	11.32	33.424	6.01	25.511	248.2	0.080
50	10.32	33.529	5.14	25.770	223.5	0.128
75	9.47	33.652	4.35	26.008	200.9	0.181
100	9.55	33.893	3.27	26.184	184.1	0.230
125	9.34	34.004	2.88	26.304	172.8	0.275
150	9.14	34.080	2.69	26.395	164.1	0.318
200	8.72	34.113	2.31	26.488	155.4	0.399
250	8.47	34.151	1.90	26.558	148.7	0.477

RV ALEXANDER AGASSIZ — CALCOFI CRUISE 7202 — 80052

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
34 24.5N	120 36.5W	2/13/72	0839 GMT	321M	330	20KT	0	49

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	12.37	33.33		25.245	273.5	0.000
10	12.36	33.35		25.262	271.9	0.027
20	12.21	33.37		25.306	267.7	0.054
30	11.31	33.40		25.497	249.5	0.080
50	10.24	33.49		25.747	225.7	0.128
75	9.40	33.65		26.017	197.8	0.181
100	9.54	[illegible]		26.175	185.0	0.230

RV ALEXANDER AGASSIZ CALCOFI CRUISE 7202 80053

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
34 22.5N	120 40.5W	2/13/72	0710 GMT	491M	320	15KT	0	49

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
									0	12.37	33.35		25.260	272.0	0.000
									10	12.35	33.36		25.272	270.9	0.027
									20	11.96	33.45		25.415	257.3	0.054
									30	11.29	33.44		25.531	246.2	0.079
									50	10.39	33.49		25.729	227.4	0.126
									75	9.52	33.66		26.008	200.9	0.180
									100	8.95	33.83		26.232	179.6	0.228
									125	9.14	34.03		26.358	167.7	0.272
									150	8.97	34.08		26.424	161.4	0.314
									200	8.55	34.14		26.537	150.7	0.394
									250	8.32	34.17		26.596	145.1	0.470
									300	8.03	34.17		26.639	140.9	0.543

RV ALEXANDER AGASSIZ CALCOFI CRUISE 7202 80055

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
34 19.0N	120 48.5W	2/13/72	0520 GMT	796M	330	20KT	0	

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
									0	12.06	33.56		25.481	251.0	0.000
									10	12.05	33.57		25.491	250.0	0.025
									20	11.65	33.60		25.589	240.7	0.050
									30	11.29	33.63		25.678	232.2	0.073
									50	10.62	33.74		25.883	212.7	0.118
									75	9.84	33.77		26.040	197.8	0.170
									100	8.99	33.80		26.202	182.4	0.218
									125	8.72	33.93		26.346	168.8	0.262
									150	8.49	33.99		26.429	160.9	0.304
									200	7.90	34.08		26.588	145.8	0.382
									250	7.99	34.20		26.669	138.2	0.455
									300	7.68	34.23		26.738	131.6	0.525
									400	6.82	34.26		26.882	117.9	0.655
									500	5.85	34.23		26.986	108.1	0.774

RV ALEXANDER AGASSIZ CALCOFI CRUISE 7202 80060

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
34 09.0N	121 09.0W	2/12/72	1020 GMT	3654M	320	10KT		49

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
									0	12.97	33.27		25.081	289.0	0.000
									10	12.96	33.29		25.099	287.4	0.029
									20	12.82	33.30		25.134	284.0	0.057
									30	12.35	33.21		25.156	282.0	0.086
									50	12.32	33.30		25.231	274.6	0.142
									75	11.27	33.28		25.411	257.7	0.209
									100	10.87	33.53		25.676	232.4	0.270
									125	9.69	33.65		25.972	204.3	0.326
									150	9.15	33.80		26.177	184.9	0.375
									200	8.45	33.99		26.435	160.3	0.463
									250	7.59	34.02		26.586	146.0	0.541
									300	6.83	34.04		26.708	134.4	0.613
									400	6.09	34.12		26.869	119.2	0.745
									500	5.56	34.21		27.005	106.2	0.864
									600	5.10	34.29		27.123	95.0	0.971
									700	4.63	34.37		27.240	84.0	1.067
									800	4.43	34.43		27.310	77.4	1.156
									1000	4.01	34.47		27.386	70.1	1.320

RV ALEXANDER AGASSIZ CALCOFI CRUISE 7202 80060

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
34 09.0N	121 19.0W	2/12/72	1144 GMT	3694M	320	10KT		49

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
0	12.93	33.293	6.16	0.32	2.	0.02	0.0	286.6	0	12.93	33.293	6.16	25.107	286.6	0.000
10	12.93	33.290	6.19	0.32	2.	0.01	0.0	286.8	10	12.93	33.290	6.19	25.105	286.8	0.029
29	12.82	33.358	6.19	0.33	2.	0.01	0.0	279.7	20	12.90	33.328	6.19	25.139	283.6	0.057
57	12.19	33.289	6.05	0.46	4.	0.18	1.8	273.3	30	12.80	33.358	6.19	25.180	279.6	0.085
76	11.62	33.333	5.70	0.65	6.	0.03	4.5	259.9	50	12.39	33.310	6.09	25.225	275.4	0.141
91	10.69	33.394	5.28	0.92	9.	0.02	9.0	239.5	75	11.66	33.331	5.72	25.378	260.8	0.209
105	10.67	33.546	5.19	1.16	13.	0.02	12.1	227.9	100	10.68	33.500	5.22	25.666	231.6	0.271
133	9.53	33.578	4.05	1.62	22.	0.01	18.8	207.2	125	9.90	33.574	4.41	25.877	213.4	0.327
158	9.06	33.833	3.52	1.81	26.	0.01	22.0	181.1	150	9.18	33.747	3.64	26.130	189.3	0.378
186	8.61		3.44	1.97	33.	0.01	25.9		200	8.42	33.994	3.24	26.441	159.8	0.467
219	8.17	34.007	2.93	2.13	38.	0.01	25.6	155.1	250	7.63	34.030	2.69	26.588	145.8	0.545
284	7.04	34.032	2.50	2.32	51.	0.01	30.9	137.7	300	6.85	34.045	2.33	26.709	134.4	0.617
387	6.13	34.115	1.41	2.90	69.	0.00	37.5	120.1	400	6.06	34.124	1.32	26.874	118.6	0.749
469	5.65	34.178	0.85	3.11	79.	0.00	40.5	109.6	500	5.58	34.189	0.60	26.986	108.1	0.868
619	4.86	34.305	0.46	3.33	102.0	0.01	42.7	91.3	600	4.97	34.286	0.50	27.135	93.9	0.975
769	4.42	34.407	0.43	3.41	114.	0.00	45.3	79.0	700	4.58	34.367	0.44	27.243	83.7	1.071
931	4.06	34.458	0.62	3.44	121.	0.00	41.60	71.5	800	4.35	34.420	0.46	27.311	77.3	1.159
1135	3.64	34.503	0.84	3.38	131.	0.00	43.6	64.1	1000	3.91	34.476	0.70	27.400	68.8	1.322

RV ALEXANDER AGASSIZ CALCOFI CRUISE 7202 80070

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
33 49.0N	121 51.0W	2/12/72	0500 GMT	3657M	350	15KT		49

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	11.98	33.23		25.241	273.8	0.000
10	11.58	33.22		25.308	267.5	0.027
20	11.29	33.30		25.423	256.6	0.053
30	11.10	33.33		25.480	251.1	0.079
50	10.84	33.44		25.612	238.6	0.128
75	10.22	33.55		25.805	220.2	0.186
100	9.26	33.82		26.175	185.1	0.237
125	8.89	33.91		26.304	172.8	0.282
150	8.60	33.98		26.404	163.3	0.325
200	7.81	34.06		26.586	146.0	0.403
250	7.37	34.11		26.688	136.3	0.476
300	7.07	34.16		26.770	128.6	0.544
400	6.32	34.24		26.933	113.0	0.670
500	5.64	34.28		27.051	101.9	0.784
600	5.15	34.33		27.149	92.6	0.887
700	4.80	34.39		27.237	84.3	0.983
800	4.41	34.42		27.304	77.9	1.072
1000	3.85	34.48		27.410	67.8	1.234

RV ALEXANDER AGASSIZ CALCOFI CRUISE 7202 80070

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
33 48.5N	121 51.0W	2/18/72	2001 GMT	3206M	190	12KT	2	230 6 8

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	12.73	33.35		25.190	278.7	0.000
10	12.71	33.36		25.202	277.6	0.028
20	12.70	33.36		25.204	277.4	0.056
30	12.69	33.37		25.214	276.5	0.083
50	12.46	33.36		25.250	272.9	0.138
75	12.42	33.36		25.258	272.2	0.207
100	10.90	33.39		25.562	243.3	0.272
125	9.84	33.61		25.916	209.7	0.329
150	9.33	33.80		26.148	187.6	0.379
200	8.40	34.01		26.458	158.1	0.468
250	7.78	34.08		26.606	144.1	0.545
300	7.20	34.13		26.728	132.5	0.616
400	6.23	34.20		26.914	114.9	0.745
500	5.29	34.23		27.054	101.6	0.859

RV ALEXANDER AGASSIZ CALCOFI CRUISE 7202 80080

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
33 28.0N	122 31.0W	2/11/72	1416 GMT	3977M	140	3KT	1	240 8 10

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	12.05	33.02		25.066	290.5	0.000
10	11.31	33.16		25.311	267.2	0.028
20	11.42	33.41		25.484	250.7	0.054
30	11.00	33.40		25.552	244.2	0.079
50	10.68	33.38		25.593	240.3	0.127
75	10.13	33.43		25.727	227.6	0.186
100	9.37	33.80		26.141	188.2	0.239
125	8.94	33.91		26.296	173.5	0.284
150	8.51	33.98		26.418	162.0	0.327
200	7.86	34.04		26.563	148.2	0.406
250	7.22	34.08		26.686	136.5	0.479
300	6.76	34.16		26.812	124.6	0.546
400	6.06	34.19		26.927	113.6	0.670
500	5.45	34.25		27.050	101.9	0.784
600	5.03	34.31		27.147	92.8	0.887
700	4.68	34.37		27.235	84.5	0.983
800	4.41	34.41		27.296	78.7	1.072
1000	3.84	34.48		27.411	67.7	1.235

RV ALEXANDER AGASSIZ CALCOFI CRUISE 7202 80080

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
33 25.5N	122 37.5W	2/20/72	2255 GMT	4002M	340	4KT	1	240 4 6

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	12.32	33.17		25.130	284.4	0.000
10	11.90	33.19		25.225	275.3	0.028
20	11.75	33.19		25.253	272.7	0.055
30	11.41	33.29		25.393	259.4	0.082
50	10.44	33.46		25.697	230.5	0.131
75	9.49	33.67		26.020	199.7	0.185
100	9.11	33.87		26.238	179.1	0.233
125	8.82	33.99		26.378	165.8	0.277
150	8.52	34.05		26.471	156.9	0.318
200	8.04	34.09		26.575	147.0	0.395
250	7.43	34.12		26.688	136.4	0.468
300	7.01	34.19		26.801	125.6	0.536

RV ALEXANDER AGASSIZ CALCOFI CRUISE 7202 80080

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
33 25.5N	122 37.5W	2/20/72	2345 GMT	4002M	340	4KT	1	240 4 6

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	12.06	33.18		25.188	278.9	0.000
10	11.87	33.17		25.215	276.3	0.028
20	11.73	33.16		25.234	274.6	0.055
30	11.46	33.25		25.353	263.2	0.082
50	10.79	33.45		25.628	237.0	0.132
75	10.25	33.62		25.854	215.5	0.189
100	9.41	33.79		26.127	189.6	0.240
125	9.01	33.94		26.308	172.4	0.286
150	8.60	34.02		26.435	160.3	0.328
200	8.06	34.06		26.549	149.5	0.407
250	7.35	34.12		26.699	135.3	0.481
300	6.95	34.18		26.802	125.5	0.548

RV ALEXANDER AGASSIZ CALCOFI CRUISE 7202 80090

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
33 09.5N	123 13.0W	2/11/72	0710 GMT	4227M	050	5KT		49

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	12.46	33.03		24.995	297.2	0.000
10	12.14	33.06		25.080	289.2	0.029
20	12.14	33.09		25.103	287.0	0.058
30	11.60	33.15		25.250	273.0	0.086
50	10.80	33.20		25.433	255.6	0.139
75	10.48	33.39		25.636	236.3	0.201
100	9.67	33.66		25.983	203.3	0.256
125	9.24	33.83		26.186	184.0	0.305
150	8.77	33.95		26.354	168.0	0.350
200	8.21	34.05		26.518	152.4	0.432
250	7.21	34.02		26.640	140.9	0.507
300	6.76	34.07		26.741	131.3	0.577
400	5.95	34.15		26.910	115.3	0.705
500	5.71	34.29		27.050	102.0	0.820
600	5.12	34.34		27.161	91.5	0.923
700	4.77	34.39		27.240	83.9	1.018
800	4.38	34.42		27.307	77.6	1.106
1000	3.85	34.48		27.410	67.8	1.268

RV ALEXANDER AGASSIZ CALCOFI CRUISE 7202 80090

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
33 09.5N	123 13.0W	2/11/72	0848 GMT	4227M	050	5KT		49

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT
1	12.37	33.060	6.39	0.36	2.	0.01	0.0	293.4
11	12.37	33.056	6.39	0.33	2.	0.00	0.1	293.7
21	12.08	33.078	6.46	0.36	2.	0.00	0.4	286.8
41	11.26	33.177	6.12	0.57	4.	0.22	3.6	265.1
66	10.82	33.304	5.85	0.81	8.	0.12	7.4	248.3
81	10.48	33.390	5.84	0.92	10.	0.10	9.6	236.3
96	9.96	33.517	4.54	1.33	16.	0.01	18.0	218.5
111	9.62	33.663	4.00	1.61	21.	0.00	21.4	202.3
141	9.07	33.850	3.30	1.80	28.	0.00	25.4	179.9
167	8.54	33.943	3.52	1.89	32.	0.00	25.6	165.2
227	7.53	33.996	3.42	1.97	41.	0.00	27.9	147.0
292	6.71	34.040	2.23	2.45	56.	0.00	34.4	132.9
394	5.85	34.133	1.61	2.90	75.	0.01	44.30	115.4
494	5.39	34.231	1.22	3.11	88.	0.00	44.1	102.7
629	5.08	34.356	0.64	3.27	98.	0.01	44.8	89.6
784	4.39	34.419	0.48	3.27	111.	0.00	45.7	77.8
931	4.04	34.477	0.57	3.27	119.	0.00	47.0	69.9
1135	3.40	34.522	0.90	3.21	133.	0.01	46.2	60.4

Z	T	S	O2	SIGT	DT	DD
0	12.37	33.060	6.39	25.036	293.4	0.000
10	12.37	33.059	6.39	25.033	293.6	0.029
20	12.12	33.077	6.46	25.095	287.7	0.058
30	11.71	33.120	6.34	25.205	277.3	0.087
50	11.07	33.224	5.99	25.401	258.6	0.141
75	10.63	33.355	5.84	25.581	241.5	0.203
100	9.86	33.559	4.35	25.871	213.9	0.261
125	9.36	33.766	3.58	26.116	190.7	0.312
150	8.89	33.890	3.34	26.288	174.3	0.358
200	7.95	33.986	3.47	26.508	153.5	0.442
250	7.21	34.013	3.03	26.633	141.5	0.517
300	6.63	34.048	2.15	26.741	131.3	0.588
400	5.81	34.140	1.58	26.918	114.5	0.715
500	5.37	34.238	1.19	27.049	102.0	0.829
600	5.13	34.333	0.75	27.154	92.1	0.932
700	4.75	34.391	0.57	27.242	83.8	1.028
800	4.35	34.427	0.48	27.315	76.8	1.116
1000	3.84	34.497	0.65	27.424	66.5	1.276

RV ALEXANDER AGASSIZ CALCOFI CRUISE 7202 82047

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
34 15.0N	119 59.0W	2/13/72	1335 GMT	565M	150	4KT	0	49

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	12.79	33.49		25.287	269.5	0.000
10	12.67	33.51		25.326	265.8	0.027
20	12.35	33.51		25.388	259.9	0.053
30	12.02	33.54		25.473	251.7	0.079
50	11.32	33.60		25.650	234.9	0.128
75	10.36	33.74		25.929	208.4	0.183
100	9.97	33.86		26.089	193.2	0.234
125	9.57	33.98		26.249	178.0	0.281
150	9.38	34.04		26.327	170.6	0.325
200	8.79	34.11		26.476	156.5	0.409
250	8.35	34.17		26.591	145.5	0.486
300	7.65	34.20		26.689	136.2	0.559
400	6.92	34.25		26.861	119.9	0.693

RV ALEXANDER AGASSIZ CALCOFI CRUISE 7202 83040

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
34 13.5N	119 22.0W	2/13/72	1935 GMT	22M	300	4KT	0	270 3 6

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
									0	12.85	33.53		25.306	267.7	0.000
									10	12.67	33.53		25.341	264.3	0.027
									20	12.42	33.53		25.390	259.7	0.053

RV ALEXANDER AGASSIZ CALCOFI CRUISE 7202 83043

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
34 07.5N	119 33.5W	2/13/72	1656 GMT	233M	280	4KT	0	280 2 6

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
									0	12.58	33.49		25.328	265.6	0.000
									10	12.24	33.52		25.416	257.2	0.026
									20	12.07	33.54		25.464	252.6	0.052
									30	11.92	33.54		25.492	249.9	0.077
									50	11.63	33.58		25.577	241.8	0.126
									75	10.83	33.65		25.777	222.9	0.185
									100	10.18	33.81		26.014	200.3	0.238
									125	9.89	33.89		26.125	189.7	0.287
									150	9.27	34.07		26.368	166.7	0.333
									200	8.82	34.17		26.518	152.4	0.414

RV ALEXANDER AGASSIZ CALCOFI CRUISE 7202 83043

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
34 07.5N	119 33.5W	2/13/72	1737 GMT	233M	280	4KT	0	280 2 6

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
4	12.41	33.518	6.44	0.31	3.	0.04	0.3	260.4	0	12.45	33.518		25.374	261.1	0.000
15	12.07	33.563	6.55	0.33	3.	0.04	0.9	250.9	10	12.24	33.542	6.50	25.432	255.6	0.026
36	11.76	33.572	6.10	0.58	8.	0.11	4.5	244.7	20	11.98	33.572	6.50	25.505	248.7	0.051
46	11.62	33.577	5.73	0.70	8.	0.19	5.8	241.9	30	11.82	33.576	6.30	25.537	245.7	0.076
60	11.32	33.608	4.97	0.96	12.	0.18	8.9	234.4	50	11.55	33.585	5.53	25.595	240.2	0.125
75	10.79	33.658	4.18	1.28	16.	0.03	13.3	221.6	75	10.79	33.658	4.18	25.790	221.6	0.183
90	10.57	33.717	3.90	1.36	18.	0.03	14.6	213.6	100	10.30	33.789	3.62	25.976	204.0	0.236
109	10.07	33.848	3.40	1.68	23.	0.01	19.3	195.7	125	9.94	33.884	3.29	26.111	191.1	0.286
129	9.91	33.891	3.26	1.73	24.	0.02	21.3	190.0	150	9.36	34.044	2.62	26.332	170.1	0.332
155	9.17	34.095	2.40	2.10	34.	0.01	23.7	163.3							

RV ALEXANDER AGASSIZ CALCOFI CRUISE 7202 83051

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
33 52.0N	120 07.5W	2/12/72	2352 GMT	108M	310	18KT	0	310 2 5

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
									0	12.92	33.46		25.238	274.1	0.000
									10	12.55	33.43		25.287	269.4	0.027
									20	11.86	33.49		25.465	252.5	0.053
									30	11.52	33.56		25.598	239.9	0.078
									50	10.57	33.61		25.791	221.5	0.124
									75	9.32	33.96		26.274	175.6	0.174

RV ALEXANDER AGASSIZ CALCOFI CRUISE 7202 83055

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
33 44.0N	120 25.0W	2/12/72	2109 GMT	999M	350	10KT	0	310 7 9

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
									0	12.66	33.46		25.289	269.3	0.000
									10	12.41	33.49		25.361	262.5	0.027
									20	11.75	33.54		25.524	246.9	0.052
									30	11.29	33.61		25.663	233.7	0.076
									50	10.55	33.70		25.865	214.5	0.121
									75	9.95	33.85		26.084	193.7	0.173
									100	9.55	33.99		26.260	177.0	0.219
									125	9.28	34.06		26.359	167.6	0.263
									150	9.06	34.09		26.416	162.0	0.305
									200	8.68	34.17		26.540	150.4	0.385
									250	8.33	34.19		26.610	143.8	0.460
									300	7.86	34.22		26.704	134.8	0.532
									400	7.19	34.25		26.824	123.5	0.667
									500	6.33	34.31		26.987	107.9	0.789
									600	5.53	34.31		27.088	98.4	0.900
									700	5.21	34.38		27.182	89.5	1.002
									800	4.73	34.43		27.276	80.5	1.095

RV ALEXANDER AGASSIZ CALCOFI CRUISE 7202 83060

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
33 34.0N	120 45.5W	2/12/72	1635 GMT	1627M	340	14KT	0	320 8 8

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
									0	12.25	33.52		25.414	257.3	0.000
									10	12.25	33.53		25.422	256.6	0.026
									20	11.91	33.56		25.510	248.3	0.051
									30	11.63	33.58		25.577	241.8	0.076
									50	10.95	33.65		25.755	224.9	0.122
									75	9.90	33.80		26.054	196.6	0.175
									100	9.42	33.90		26.211	181.6	0.223
									125	9.01	33.96		26.324	170.9	0.268
									150	8.45	34.00		26.443	159.6	0.310
									200	8.15	34.11		26.574	147.1	0.388
									250	7.93	34.18		26.662	138.8	0.461
									300	7.01	34.15		26.770	128.5	0.530
									400	6.83	34.25		26.873	118.7	0.659
									500	5.96	34.29		27.019	104.9	0.778
									600	5.49	34.33		27.109	96.4	0.885
									700	4.98	34.38		27.209	87.0	0.984
									800	4.60	34.41		27.275	80.6	1.076
									1000	4.07	34.46		27.372	71.5	1.246

RV ALEXANDER AGASSIZ CALCOFI CRUISE 7202 83060

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
33 34.0N	120 45.5W	2/12/72	1749 GMT	1627M	340	14KT	0	320 8 8

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
0	12.30	33.520	6.39	0.63	6.	0.07	2.6	258.2	0	12.30	33.52	6.39	25.405	258.2	0.000
9	12.27	33.523	6.36	0.51	6.	0.08	2.6	257.5	10	12.25	33.53	6.36	25.417	257.1	0.026
30	11.63	33.566	5.95	0.72	9.	0.13	5.5	242.9	20	12.01	33.54	6.23	25.475	251.6	0.051
55	10.39	33.707	4.32		18.	0.16	14.9	211.4	30	11.63	33.57	5.95	25.567	242.9	0.076
70	9.91	33.814	3.78	1.61	22.	0.07	17.2	195.7	50	10.64	33.67	4.66	25.828	218.0	0.122
85	9.58	33.840	3.46	1.76	25.	0.04	19.6	188.5	75	9.79	33.83	3.66	26.093	192.9	0.174
99	9.30	33.883	3.25	1.86	27.	0.03	22.2	181.0	100	9.29	33.89	3.23	26.222	180.6	0.221
131	8.96	33.965	2.98	2.04	32.	0.02	24.6	169.8	125	9.02	33.95	2.99	26.317	171.5	0.266
156	8.49	34.067 U	3.24	1.95	33.	0.02	24.4		150	8.60	33.99	3.19	26.410	162.8	0.308
181	8.17	34.04	2.89	2.10	38.	0.01	25.8	152.6	200	8.09	34.08	2.44	26.562	148.3	0.387
216	8.06	34.12	2.06	2.44	43.	0.01	27.8	145.1	250	7.82	34.17	1.65	26.666	138.4	0.461
281	7.56	34.19	1.44	2.74	52.	0.02	31.2	132.9	300	7.44	34.21	1.31	26.752	130.2	0.530
381	6.92	34.25	0.90	3.02	59.	0.02	35.2	119.9	400	6.74	34.26	0.82	26.890	117.2	0.660
481	6.01	34.28	0.58	3.23	73.	0.02	38.1	106.3	500	5.90	34.29	0.56	27.025	104.4	0.777
615	5.40	34.34	0.47	3.27	84.	0.02	41.0	94.6	600	5.45	34.33	0.48	27.116	95.8	0.884
768	4.67	34.41	0.46		101.	0.00	41.7	81.4	700	4.98	34.38	0.46	27.208	87.0	0.983
916	4.23	34.46	0.59	3.40	108.	0.05	40.3	73.1	800	4.56	34.42	0.48	27.289	79.3	1.074
1121	3.65	34.51	0.84	3.35	121.	0.03	40.8	63.6	1000	3.99	34.48	0.68	27.399	68.9	1.239

RV ALEXANDER AGASSIZ CALCOFI CRUISE 7202 83070

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
33 14.5N	121 26.0W	2/12/72	0012 GMT	3545M	360	8KT	1	320 10 9

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
									0	13.50	33.34		25.029	294.0	0.000
									10	13.06	33.30		25.087	288.5	0.029
									20	12.82	33.27		25.111	286.2	0.058
									30	12.26	33.29		25.235	274.5	0.086
									50	12.24	33.36		25.293	268.9	0.141
									75	11.28	33.42		25.518	247.5	0.205
									100	9.95	33.50		25.812	219.6	0.264
									125	9.02	33.80		26.198	182.9	0.315
									150	8.68	33.96		26.376	166.0	0.359
									200	8.01	34.02		26.525	151.8	0.440
									250	7.82	34.14		26.647	140.2	0.515
									300	7.33	34.17		26.741	131.3	0.585
									400	6.23	34.19		26.906	115.7	0.714
									500	5.79	34.30		27.048	102.2	0.829
									600	5.26	34.36		27.160	91.6	0.933
									700	4.67	34.41		27.245	83.5	1.028
									800	4.39	34.43		27.314	77.0	1.116
									1000	3.80	34.49		27.423	66.6	1.276

RV ALEXANDER AGASSIZ CALCOFI CRUISE 7202 83075

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
33 03.5N	121 45.5W	2/19/72	2340 GMT	4002M	290	10KT		290 2 5

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
									0	13.05	33.35		25.127	284.7	0.000
									10	12.76	33.34		25.177	280.0	0.028
									20	12.74	33.34		25.181	279.6	0.056
									30	12.70	33.34		25.188	278.8	0.084
									50	11.21	33.34		25.468	252.2	0.138
									75	10.60	33.48		25.685	231.6	0.198
									100	9.59	33.68		26.012	200.5	0.253
									125	9.16	33.87		26.230	179.8	0.301
									150	8.85	33.96		26.349	168.5	0.345
									200	8.18	34.06		26.534	151.0	0.427
									250	7.53	34.12		26.673	137.7	0.501
									300	7.12	34.19		26.786	127.0	0.569

RV ALEXANDER AGASSIZ — CALCOFI CRUISE 7202 — 83080

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
32 53.0N	122 08.0W	2/11/72	1911 GMT	4193M	050	9KT	1	350 5 8

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
									0	12.53	33.20		25.113	286.0	0.000
									10	12.12	33.26		25.238	274.1	0.028
									20	11.87	33.27		25.293	268.9	0.055
									30	11.58	33.29		25.362	262.3	0.082
									50	11.09	33.30		25.459	253.1	0.134
									75	11.32	33.44		25.526	246.8	0.196
									100	11.16	33.49		25.593	240.3	0.258
									125	9.94	33.65		25.930	208.3	0.314
									150	9.36	33.91		26.229	179.9	0.364
									200	8.59	34.04		26.452	158.7	0.450
									250	7.91	34.11		26.610	143.7	0.528
									300	7.18	34.13		26.731	132.3	0.599
									400	6.15	34.18		26.908	115.4	0.728
									500	5.37	34.22		27.036	103.3	0.843
									600	5.04	34.30		27.138	93.6	0.948
									700	4.64	34.36		27.231	84.8	1.044
									800	4.40	34.41		27.297	78.6	1.133
									1000	3.84	34.48		27.411	67.7	1.296

RV ALEXANDER AGASSIZ — CALCOFI CRUISE 7202 — 83090

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
32 36.5N	122 54.0W	2/11/72	0243 GMT	4116M	070	9KT	1	49

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
									0	13.10	33.25		25.040	293.0	0.000
									10	12.65	33.26		25.136	283.8	0.029
									20	12.61	33.28		25.160	281.6	0.057
									30	12.55	33.28		25.171	280.5	0.085
									50	12.16	33.32		25.277	270.4	0.141
									75	11.25	33.32		25.445	254.4	0.207
									100	10.25	33.45		25.722	228.1	0.267
									125	9.60	33.74		26.057	196.3	0.321
									150	8.81	33.83		26.254	177.5	0.368
									200	8.14	33.98		26.474	156.6	0.453
									250	7.34	34.03		26.630	141.9	0.530
									300	6.58	34.02		26.726	132.7	0.601
									400	5.77	34.14		26.924	113.9	0.729
									500	5.24	34.23		27.060	101.1	0.842
									600	4.87	34.31		27.166	91.0	0.944
									700	4.50	34.38		27.262	81.8	1.037
									800	4.25	34.43		27.329	75.5	1.123
									1000	3.74	34.51		27.445	64.5	1.279

RV ALASKA — CALCOFI CRUISE 7202 — 87035

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
33 50.0N	118 37.0W	2/ 9/72	0020 GMT					

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
									0	13.40	33.47		25.150	282.5	0.000
									10	13.15	33.46		25.192	278.5	0.028
									20	13.05	33.46		25.212	276.6	0.056
									30	12.80	33.46		25.262	271.9	0.083
									50	11.65	33.50		25.512	248.1	0.136
									75	10.90	33.58		25.710	229.3	0.196
									100	10.20	33.74		25.956	205.8	0.250
									125	9.95	33.93		26.146	187.7	0.300
									150	9.90	34.05		26.248	178.1	0.347
									200	9.10	34.11		26.427	161.1	0.433
									250	8.50	34.14		26.545	149.9	0.513
									300	8.20	34.16		26.606	144.1	0.589
									400	7.05	34.20		26.804	125.3	0.729

RV ALASKA — CALCOFI CRUISE 7202 — 87040

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
33 40.0N	118 57.5W	2/ 9/72	0430 GMT					

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
									0	13.05	33.48		25.228	275.1	0.000
									10	13.05	33.48		25.228	275.1	0.028
									20	13.00	33.47		25.230	274.9	0.055
									30	12.95	33.47		25.240	274.0	0.083
									50	11.70	33.44		25.456	253.4	0.135
									75	11.00	33.57		25.684	231.7	0.196
									100	10.30	33.71		25.916	209.7	0.252
									125	9.65	33.83		26.085	193.5	0.303
									150	9.80	34.01		26.234	179.4	0.350
									200	9.05	34.09		26.419	161.8	0.437
									250	8.50	34.12		26.529	151.4	0.518
									300	7.85	34.15		26.650	139.9	0.593
									400	7.10	34.22		26.813	124.5	0.731
									500	6.40	34.27		26.947	111.8	0.856

RV ALASKA CALCOFI CRUISE 7202 87045

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
33 30.0N	119 20.0W	2/ 9/72	0820 GMT					

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	13.10	33.45		25.195	278.3	0.000
10	13.05	33.45		25.205	277.3	0.028
20	13.05	33.46		25.212	276.6	0.056
30	12.85	33.44		25.236	274.3	0.083
50	12.00	33.49		25.439	255.0	0.136
75	10.50	33.59		25.788	221.8	0.196
100	9.90	33.84		26.085	193.6	0.249
125	9.65	33.96		26.220	180.7	0.296
150	9.35	33.99		26.293	173.8	0.341
200	8.65	34.09		26.482	155.9	0.425
250	8.30	34.14		26.575	147.0	0.503
300	7.80	34.17		26.673	137.7	0.576
400	7.20	34.24		26.814	124.3	0.713
500	6.65	34.29		26.929	113.5	0.839

RV ALASKA CALCOFI CRUISE 7202 87050

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
33 20.0N	119 39.5W	2/ 9/72	1230 GMT					

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	12.05	33.50		25.437	255.2	0.000
10	12.00	33.50		25.446	254.3	0.025
20	11.95	33.56		25.502	249.0	0.051
30	11.85	33.60		25.552	244.3	0.075
50	11.20	33.63		25.695	230.7	0.123

RV ALASKA CALCOFI CRUISE 7202 87055

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
33 09.0N	119 59.5W	2/ 9/72	1545 GMT					

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	13.10	33.31		25.087	288.5	0.000
10	13.10	33.32		25.094	287.8	0.029
20	12.65	33.25		25.129	284.5	0.057
30	12.45	33.31		25.214	276.4	0.086
50	12.00	33.31		25.299	268.3	0.140
75	11.10	33.35		25.496	249.6	0.205
100	9.70	33.68		25.994	202.3	0.262
125	9.30	33.91		26.239	179.0	0.311
150	8.90	34.01		26.381	165.5	0.354
200	8.15	34.03		26.512	153.1	0.435
250	7.85	34.10		26.611	143.6	0.512
300	7.70	34.25		26.751	130.4	0.582
400	7.05	34.31		26.890	117.1	0.712
500	6.40	34.34		27.002	106.6	0.830

RV ALASKA CALCOFI CRUISE 7202 87060

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
32 59.5N	120 21.0W	2/ 9/72	1920 GMT					

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	13.60	33.30		24.978	298.8	0.000
10	13.50	33.32		25.014	295.4	0.030
20	13.45	33.34		25.039	293.0	0.059
30	13.40	33.35		25.057	291.3	0.088
50	13.05	33.32		25.104	286.9	0.146
75	12.35	33.35		25.264	271.7	0.217
100	11.70	33.44		25.456	253.4	0.283
125	10.65	33.45		25.653	234.7	0.344
150	9.30	33.71		26.082	193.8	0.399
200	8.65	33.95		26.373	166.2	0.490
250	8.05	34.05		26.542	150.2	0.571
300	7.65	34.12		26.656	139.4	0.646
400	7.00	34.25		26.850	120.9	0.782
500	6.20	34.30		26.996	107.1	0.902

RV ALASKA CALCOFI CRUISE 7202 87070

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
32 41.0N	121 00.0W	2/10/72	0218 GMT					

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	14.20	33.37		24.908	305.5	0.000
10	14.05	33.37		24.940	302.5	0.030
20	14.00	33.39		24.965	300.1	0.061
30	13.95	33.39		24.976	299.1	0.091
50	13.90	33.40		24.994	297.4	0.150
75	12.95	33.25		25.070	290.1	0.224
100	12.55	33.30		25.187	279.0	0.296
125	11.20	33.20		25.361	262.4	0.364
150	10.05	33.59		25.865	214.5	0.425
200	8.95	33.87		26.263	176.6	0.524
250	8.20	33.99		26.473	156.7	0.609
300	7.25	33.97		26.595	145.1	0.687
400	6.30	34.13		26.849	121.0	0.825
500	5.65	34.22		27.002	106.5	0.945

RV ALASKA CALCOFI CRUISE 7202 87080

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
32 20.0N	121 42.0W	2/10/72	0855 GMT					

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	13.50	33.31		25.006	296.2	0.000
10	13.50	33.31		25.006	296.2	0.030
20	13.35	33.30		25.029	294.0	0.059
30	12.80	33.25		25.099	287.3	0.088
50	12.40	33.32		25.231	274.8	0.145
75	11.00	33.30		25.475	251.6	0.211
100	10.20	33.53		25.793	221.4	0.270
125	9.40	33.70		26.059	196.1	0.323
150	8.95	33.84		26.240	178.9	0.371
200	6.20	33.96		26.449	159.0	0.457
250	7.40	34.01		26.606	144.2	0.534
300	7.00	34.06		26.701	135.1	0.606
400	6.05	34.11		26.866	119.5	0.739
500	5.20	34.15		27.001	106.6	0.857

RV ALASKA CALCOFI CRUISE 7202 87090

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
32 00.0N	122 24.0W	2/10/72	1430 GMT					

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	13.60	33.32		24.994	297.4	0.000
10	13.60	33.32		24.994	297.4	0.030
20	12.95	33.25		25.070	290.1	0.059
30	12.15	33.24		25.217	276.1	0.088
50	12.00	33.25		25.253	272.7	0.143
75	11.90	33.37		25.365	262.1	0.210
100	11.05	33.36		25.512	248.0	0.274
125	10.20	33.59		25.840	216.9	0.333
150	9.55	33.80		26.112	191.0	0.384
200	8.50	33.99		26.427	161.1	0.474
250	7.65	34.02		26.578	146.8	0.553
300	6.90	34.07		26.722	133.1	0.625
400	6.15	34.16		26.892	116.9	0.755
500	5.45	34.28		27.074	99.7	0.869

RV ALEXANDER AGASSIZ CALCOFI CRUISE 7202 90028

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
33 28.5N	117 47.0W	2/ 6/72	2035 GMT	517M	280	4KT	4	260 4 10

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	13.02	33.43		25.195	278.2	0.000
10	12.74	33.45		25.266	271.5	0.027
20	12.66	33.48		25.304	267.8	0.054
30	12.26	33.48		25.381	260.5	0.081
50	11.54	33.48		25.516	247.6	0.132
75	10.86	33.63		25.756	224.9	0.191
100	10.33	33.83		26.004	201.3	0.245
125	9.89	33.98		26.196	183.1	0.294
150	9.72	34.08		26.302	173.0	0.339
200	8.92	34.13		26.471	156.9	0.423
250	8.46	34.17		26.574	147.1	0.501
300	7.97	34.22		26.687	136.4	0.575
400	7.10	34.26		26.844	121.5	0.709
500	6.48	34.33		26.983	108.3	0.831

RV ALEXANDER AGASSIZ — CALCOFI CRUISE 7202 — 90028

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
33 28.5N	117 47.0W	2/ 8/72	2218 GMT	517M	280	4KT	4	260 4 10

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT
0	13.12	33.462	6.49	0.32	2.	0.01	0.2	277.8
9	12.82	33.459	6.36	0.27	2.	0.01	0.4	272.3
30	12.35	33.454	5.66	0.55	5.	0.01	4.8	264.0
50	11.77	33.458	5.26	0.80	8.	0.01	8.8	253.3
81	10.63	33.662	3.86	1.41	17.	0.01	17.2	218.7
111	10.01	33.885	3.93	1.74	24.	0.00	22.1	192.0
157	9.48	34.065	2.48	2.11	32.	0.00	27.4	170.3
208	8.72	34.137	2.08	2.20	40.	0.00	33.5	153.4
258	8.30	34.164	1.65	2.41	44.	0.00	34.9	145.2
312	7.67	34.192	1.43	2.62	51.	0.00	35.6	137.1
409	6.95	34.244	0.81	2.92	64.	0.00	39.4	120.7

Z	T	S	O2	SIGT	DT	DD
0	13.12	33.462	6.49	25.200	277.8	0.000
10	12.80	33.460	6.33	25.261	271.9	0.027
20	12.56	33.458	6.01	25.305	267.8	0.055
30	12.35	33.454	5.66	25.344	264.0	0.081
50	11.77	33.458	5.26	25.457	253.3	0.133
75	10.84	33.613	4.11	25.745	225.9	0.193
100	10.20	33.808	3.90	26.009	200.8	0.247
125	9.83	33.957	3.53	26.187	183.9	0.296
150	9.55	34.049	2.73	26.305	172.7	0.341
200	8.83	34.132	2.10	26.486	155.5	0.425
250	8.36	34.162	1.89	26.583	146.3	0.502
300	7.97	34.187	1.53	26.661	138.9	0.576
400	7.04	34.240	0.86	26.835	122.3	0.712

RV ALEXANDER AGASSIZ — CALCOFI CRUISE 7202 — 90032

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
33 20.5N	118 02.5W	2/ 9/72	0142 GMT	741M	290	4KT	4	270 3 10

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	13.01	33.44		25.205	277.3	0.000
10	12.93	33.46		25.236	274.3	0.028
20	12.89	33.46		25.244	273.6	0.055
30	12.76	33.46		25.269	271.1	0.082
50	11.58	33.53		25.548	244.6	0.134
75	11.00	33.65		25.746	225.8	0.193
100	10.38	33.82		25.987	202.8	0.247
125	10.21	33.96		26.126	189.7	0.297
150	9.87	34.05		26.253	177.6	0.344
200	9.41	34.17		26.423	161.4	0.430
250	8.93	34.21		26.532	151.1	0.510
300	8.36	34.21		26.621	142.7	0.586
400	7.35	34.24		26.793	126.3	0.727
500	6.49	34.29		26.950	111.4	0.853
600	5.82	34.36		27.092	98.0	0.965

RV ALEXANDER AGASSIZ — CALCOFI CRUISE 7202 — 90037

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
33 11.0N	118 22.5W	2/ 9/72	0412 GMT	1162M	300	7KT		49

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	12.97	33.44		25.213	276.5	0.000
10	12.83	33.45		25.248	273.2	0.027
20	12.75	33.46		25.271	271.0	0.055
30	12.49	33.47		25.330	265.4	0.082
50	11.38	33.47		25.538	245.6	0.133
75	10.71	33.63		25.762	222.4	0.192
100	9.83	33.81		26.073	194.7	0.244
125	9.49	33.90		26.200	182.7	0.292
150	9.15	33.99		26.325	170.8	0.337
200	8.57	34.09		26.495	154.7	0.420
250	8.02	34.13		26.610	143.8	0.497
300	7.83	34.22		26.708	134.4	0.568
400	7.02	34.24		26.839	122.0	0.702
500	6.39	34.31		26.979	108.7	0.824
600	5.63	34.36		27.115	95.8	0.934
700	5.15	34.39		27.197	88.1	1.034

RV ALEXANDER AGASSIZ — CALCOFI CRUISE 7202 — 90037

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
33 11.0N	118 22.5W	2/ 9/72	0539 GMT	1162M	300	7KT		49

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT
1	12.91	33.465	6.42	0.25	3.	0.03	0.0	273.6
11	12.77	33.461	6.37	0.29	3.	0.02	0.5	271.2
31	12.30	33.456	5.91	0.48	5.	0.05	4.1	263.0
41	12.12	33.48	5.66	0.57	6.	0.09	5.6	257.9
51	11.53	33.500	5.00	0.91	9.	0.02	10.2	246.0
67A	11.27	33.545	4.74	1.05	11.	0.02	12.6	238.1
82A	10.72	33.623	4.25	1.29	15.	0.01	16.0	223.1
108A	9.81	33.794	3.64	1.62	22.	0.01	23.1	195.6
127A	9.48	33.879	3.51	1.78	26.	0.01	25.2	184.1
148A	9.17	33.963	3.03	1.92	29.	0.01	26.0	173.1
178A	8.88	34.047	2.73	2.06	34.	0.01	27.6	162.5
208A	8.50	34.090	2.48	2.19	38.	0.00	30.3	153.6
240A	8.23	34.124	2.15	2.33	42.	0.00	31.5	147.2
279A	7.81	34.148	1.81	2.48	48.	0.01	36.1	139.5
340A	7.41	34.219	1.30	2.80	57.	0.00	38.4	128.7
414A	6.92	34.249	0.81	2.97		0.00	39.5	120.0
488A	6.54	34.308	0.61	3.11		0.01	40.5	110.7
563A	5.74	34.362	0.45	3.30		0.00	44.6	96.0

Z	T	S	O2	SIGT	DT	DD
0	12.91	33.465	6.42	25.244	273.6	0.000
10	12.79	33.463	6.38	25.265	271.5	0.027
20	12.57	33.456	6.20	25.303	268.0	0.054
30	12.32	33.457	5.94	25.350	263.5	0.081
50	11.59	33.499	5.07	25.521	247.2	0.132
75	10.99	33.585	4.49	25.696	230.6	0.192
100	10.06	33.744	3.78	25.982	203.4	0.247
125	9.51	33.873	3.52	26.175	185.1	0.296
150	9.15	33.971	3.00	26.309	172.3	0.341
200	8.60	34.082	2.55	26.483	155.8	0.425
250	8.12	34.131	2.06	26.595	145.2	0.502
300	7.65	34.174	1.63	26.697	135.5	0.575
400	7.01	34.245	0.89	26.844	121.5	0.709
500	6.44	34.318	0.58	26.978	108.8	0.831

A) CAST II

RV ALEXANDER AGASSIZ CALCOFI CRUISE 7202 90037

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
33 11.0N	118 22.5W	2/ 9/72	0702 GMT	1162M	300	7KT		49

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	12.88	33.45		25.238	274.1	0.000
10	12.76	33.45		25.262	271.9	0.027
20	12.64	33.47		25.301	268.2	0.054
30	12.38	33.47		25.351	263.4	0.081
50	11.54	33.49		25.524	246.9	0.132
75	10.56	33.63		25.805	220.2	0.191
100	9.86	33.79		26.053	196.7	0.243
125	9.50	33.93		26.221	180.6	0.291
150	9.17	33.96		26.298	173.3	0.336
200	8.83	34.08		26.446	159.3	0.421
250	8.11	34.13		26.596	145.1	0.499
300	7.78	34.21		26.708	134.5	0.571
400	6.95	34.25		26.857	120.3	0.704
500	6.33	34.32		26.995	107.2	0.825
600	5.64	34.36		27.114	95.9	0.933
700	5.22	34.40		27.196	88.1	1.033

RV ALEXANDER AGASSIZ CALCOFI CRUISE 7202 90045

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
32 55.0N	118 56.0W	2/ 9/72	1130 GMT	1692M	280	7KT		49

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	12.16	33.39		25.331	265.3	0.000
10	12.14	33.39		25.335	264.9	0.027
20	12.14	33.40		25.343	264.2	0.053
30	12.13	33.40		25.344	264.0	0.079
50	11.29	33.46		25.547	244.8	0.131
75	10.24	33.62		25.856	215.4	0.188
100	9.29	33.63		26.022	199.6	0.241
125	9.06	33.86		26.238	179.1	0.289
150	8.93	33.92		26.306	172.6	0.333
200	8.50	34.11		26.521	152.2	0.416
250	7.91	34.18		26.665	138.5	0.491
300	7.54	34.22		26.750	130.4	0.560
400	6.96	34.29		26.887	117.4	0.690
500	6.37	34.33		26.998	106.9	0.808
600	5.74	34.37		27.110	96.3	0.917
700	5.24	34.40		27.194	88.3	1.018
800	4.74	34.43		27.275	80.6	1.111
1000	4.10	34.48		27.385	70.3	1.279

RV ALEXANDER AGASSIZ CALCOFI CRUISE 7202 90053

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
32 38.5N	119 28.0W	2/ 9/72	1655 GMT	1276M	290	6KT	2	330 4 10

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	12.63	33.41		25.256	272.4	0.000
10	12.61	33.43		25.275	270.6	0.027
20	12.22	33.42		25.343	264.2	0.054
30	11.73	33.43		25.443	254.7	0.080
50	10.84	33.46		25.627	237.1	0.129
75	10.08	33.70		25.945	206.8	0.185
100	9.73	33.91		26.168	185.7	0.235
125	9.43	34.02		26.303	172.9	0.280
150	9.08	34.08		26.407	163.0	0.323
200	8.73	34.14		26.509	153.3	0.403
250	7.95	34.18		26.659	139.1	0.479
300	7.43	34.21		26.758	129.7	0.548
400	6.73	34.28		26.910	115.2	0.676
500	6.23	34.32		27.008	106.0	0.793
600	5.77	34.35		27.090	98.2	0.902
700	5.33	34.38		27.167	90.8	1.005
800	4.79	34.43		27.270	81.2	1.099
1000	4.18	34.48		27.376	71.1	1.270

RV ALEXANDER AGASSIZ CALCOFI CRUISE 7202 90060

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
32 24.5N	119 57.5W	2/ 9/72	2113 GMT	1187M	300	7KT	1	300 10 8

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	12.67	33.40		25.241	273.9	0.000
10	12.41	33.42		25.306	267.6	0.027
20	12.18	33.45		25.374	261.2	0.054
30	12.08	33.49		25.423	256.5	0.080
50	11.59	33.54		25.554	244.1	0.130
75	10.51	33.60		25.794	221.3	0.188
100	9.78	33.64		26.105	191.7	0.240
125	9.33	33.87		26.202	182.4	0.288
150	9.16	34.04		26.362	167.2	0.332
200	8.63	34.17		26.548	149.6	0.413
250	7.77	34.16		26.670	138.0	0.487
300	6.91	34.13		26.768	128.7	0.556
400	6.52	34.24		26.907	115.5	0.683
500	6.21	34.32		27.011	105.7	0.800
600	5.67	34.36		27.110	96.3	0.908
700	5.12	34.41		27.216	86.2	1.007
800	4.72	34.44		27.286	79.7	1.099
1000	4.13	34.48		27.381	70.6	1.267

RV ALEXANDER AGASSIZ CALCOFI CRUISE 7202 90060

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
32 24.5N	119 57.5W	2/ 9/72	2318 GMT	1187M	300	7KT	1	300 10 8

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
0	13.33	33.38	6.11	0.33	2.	0.00	0.5	287.8	0	13.33	33.380	6.11	25.095	287.8	0.000
9	12.31	33.45	6.25	0.40	4.	0.04	2.0	263.6	10	12.30	33.454	6.25	25.354	263.1	0.028
29	12.01	33.50	6.15	0.49	6.	0.04	3.2	254.5	20	12.15	33.479	6.20	25.401	258.6	0.054
54	11.36	33.56	5.68	0.79	9.	0.25	8.2	238.6	30	11.98	33.504	6.14	25.451	253.8	0.079
69	11.18	33.60	5.27	0.91	11.	0.21	9.8	232.5	50	11.46	33.552	5.78	25.586	241.1	0.129
84	10.51	33.67	4.53	1.23	16.	0.04	14.9	216.1	75	10.94	33.626	4.99	25.737	226.6	0.188
98	9.91	33.76	3.83	1.53	20.	0.03	19.4	199.7	100	9.88	33.776	3.76	26.037	198.2	0.241
128	9.66	33.94	3.14	1.78	25.	0.01	23.0	182.4	125	9.67	33.927	3.17	26.190	183.6	0.290
153	9.91	33.99	3.11	1.87	30.	0.00	25.0	167.1	150	9.00	33.987	3.11	26.346	168.8	0.334
178	8.61	34.04	3.07	1.99	34.	0.00	26.9	159.0	200	8.38		2.81			
212	8.24		2.64	2.19	40.	0.00	28.8		250	7.42		2.32			
276	6.87		2.13	2.53	55.	0.02	34.5		300	6.81		1.85			
375	6.62		1.02	2.95	67.	0.01	39.7		400	6.54		0.85			
474	6.26		0.51	3.13	75.	0.02	40.9		500	6.15		0.48			
605	5.67		0.37	3.19	90.	0.02	42.8		600	5.69		0.38			
755	4.87		0.42	3.24	101.	0.01	45.5		700	5.16		0.40			
897	4.34		0.53	3.34	111.	0.01	46.1		800	4.69		0.45			
1095	3.69		0.79	3.28	125.	0.02	46.0		1000	3.99		0.65			

RV ALEXANDER AGASSIZ CALCOFI CRUISE 7202 90070

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
32 06.0N	120 36.5W	2/10/72	0416 GMT	3641M	120	4KT		49

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
									0	13.29	33.24		24.995	297.3	0.000
									10	13.10	33.28		25.063	290.8	0.029
									20	13.09	33.28		25.065	290.6	0.059
									30	13.09	33.28		25.065	290.6	0.088
									50	13.12	33.36		25.121	285.2	0.145
									75	12.55	33.34		25.218	276.1	0.216
									100	12.28	33.36		25.285	269.7	0.285
									125	11.91	33.42		25.401	258.6	0.351
									150	11.31	33.42		25.512	248.1	0.416
									200	9.28	33.86		26.203	182.4	0.525
									250	8.57	34.03		26.448	159.1	0.612
									300	7.45	34.03		26.614	143.3	0.690
									400	5.97	34.06		26.836	122.2	0.828
									500	5.61	34.21		26.999	106.8	0.948
									600	5.11	34.28		27.114	95.9	1.056
									700	4.73	34.35		27.213	86.5	1.155
									800	4.45	34.42		27.300	78.3	1.245
									1000	3.87	34.49		27.416	67.3	1.407

RV ALEXANDER AGASSIZ CALCOFI CRUISE 7202 90080

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
31 43.5N	121 19.5W	2/10/72	1003 GMT	3926M	170	5KT		49

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
									0	13.98	33.42		24.993	297.5	0.000
									10	13.93	33.43		25.011	295.8	0.030
									20	13.92	33.43		25.013	295.6	0.059
									30	13.89	33.43		25.019	295.0	0.089
									50	13.79	33.42		25.032	293.7	0.148
									75	13.72	33.41		25.038	293.1	0.222
									100	13.52	33.38		25.056	291.4	0.295
									125	11.82	33.41		25.410	257.7	0.365
									150	10.89	33.54		25.681	232.0	0.427
									200	9.67	33.86		26.139	188.5	0.534
									250	8.85	34.06		26.427	161.1	0.623
									300	8.25	34.17		26.606	144.1	0.702
									400	6.99	34.20		26.812	124.5	0.842
									500	5.83	34.19		26.957	110.9	0.966
									600	5.24	34.26		27.083	98.8	1.077
									700	4.87	34.35		27.197	88.0	1.178
									800	4.55	34.40		27.273	80.9	1.271
									1000	3.90	34.48		27.405	68.3	1.437

RV ALEXANDER AGASSIZ — CALCOFI CRUISE 7202 — 90080

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
31 43.5N	121 19.5W	2/10/72	1131 GMT	3936M	170	5KT		49

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT
1	13.95	33.432	6.03	0.30	2.	0.02	0.2	296.0
10	13.93	33.429	6.05	0.30	2.	0.01	0.1	295.8
30	13.89	33.425	6.08	0.30	2.	0.01	0.0	295.3
55	13.74	33.412	6.05	0.31	2.	0.02	0.1	293.4
69	13.71	33.411	5.94	0.33	2.	0.03	0.1	292.8
84	13.69	33.411	5.97	0.34	2.	0.03	0.1	292.5
97	13.65	33.414	6.02	0.34	2.	0.06	0.3	291.5
127	11.88	33.399	5.70	0.62	5.	0.03	4.3	259.6
151	11.04	33.525	5.36	0.82	8.	0.02	7.8	235.7
175	10.07	33.693	4.52	1.23	15.	0.02	15.3	207.2
208	9.40		4.04	1.60	23.	0.01	19.5	
272	8.67	34.096	2.61	2.31	36.	0.01	27.9	155.7
367	7.51	34.183	1.42	2.85	54.	0.00	35.9	132.8
464	6.02	34.154	1.10	3.18	71.	0.01	40.6	115.8
594	5.25	34.224	0.59	3.43	90.	0.02	43.0	101.6
744	4.69	34.365	0.54	3.50	102.	0.01	46.2	85.0
887	4.19	34.443	0.53	3.51	102.0	0.00	45.9	73.9
1087	3.58	34.517	0.87	3.45	127.	0.01	45.8	62.5

Z	T	S	O2	SIGT	DT	DD
0	13.95	33.432	6.03	25.008	296.0	0.000
10	13.93	33.429	6.05	25.010	295.8	0.030
20	13.91	33.429	6.07	25.012	295.7	0.059
30	13.89	33.425	6.08	25.015	295.3	0.089
50	13.77	33.416	6.06	25.032	293.8	0.148
75	13.70	33.413	5.95	25.043	292.7	0.222
100	13.51	33.410	6.00	25.080	289.1	0.295
125	12.02	33.399	5.73	25.362	262.3	0.365
150	11.07	33.520	5.38	25.631	236.7	0.428
200	9.52	33.840	4.13	26.147	187.7	0.536
250	8.88	34.059	3.11	26.421	161.7	0.625
300	8.35	34.148	2.16	26.573	147.2	0.705
400	6.98	34.175	1.26	26.793	126.3	0.847
500	5.72	34.167	0.94	26.951	111.4	0.972
600	5.22	34.231	0.59	27.061	100.9	1.085
700	4.83	34.324	0.55	27.181	89.6	1.188
800	4.49	34.401	0.54	27.280	80.2	1.280
1000	3.83	34.491	0.67	27.420	66.9	1.444

RV ALEXANDER AGASSIZ — CALCOFI CRUISE 7202 — 90090

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
31 21.0N	121 58.0W	2/10/72	1611 GMT	3737M	110	8KT	1	270 7 8

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	13.96	33.40		24.981	298.5	0.000
10	13.92	33.42		25.005	296.3	0.030
20	13.91	33.42		25.007	296.1	0.059
30	13.63	33.36		25.018	295.0	0.089
50	13.32	33.32		25.050	292.0	0.148
75	13.24	33.31		25.059	291.2	0.221
100	12.86	33.31		25.134	284.0	0.294
125	11.59	33.40		25.445	254.4	0.362
150	10.66	33.53		25.713	228.9	0.423
200	9.28	33.87		26.211	181.7	0.527
250	8.46	34.03		26.465	157.5	0.614
300	7.69	34.02		26.572	147.4	0.693
400	6.36	34.10		26.818	124.0	0.834
500	5.61	34.18		26.976	109.0	0.956
600	5.30	34.30		27.108	96.5	1.065
700	4.95	34.37		27.204	87.4	1.165
800	4.55	34.43		27.296	78.6	1.256
1000	3.88	34.49		27.415	67.4	1.419

RV ALASKA — CALCOFI CRUISE 7202 — 93027

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
32 56.0N	117 19.0W	2/14/72	0100 GMT					

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	13.30	33.47		25.170	280.6	0.000
10	12.90	33.50		25.273	270.8	0.028
20	12.10	33.53		25.451	253.9	0.054
30	11.80	33.56		25.530	246.3	0.079
50	11.10	33.63		25.713	229.0	0.127

RV ALASKA — CALCOFI CRUISE 7202 — 93028

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
32 54.5N	117 22.0W	2/14/72	0000 GMT					

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	13.40	33.35		25.057	291.3	0.000
10	13.05	33.44		25.197	278.0	0.028
20	12.75	33.41		25.233	274.6	0.056
30	12.40	33.49		25.362	262.3	0.083
50	11.70	33.47		25.479	251.2	0.135
75	10.80	33.61		25.751	225.4	0.195
100	10.50	33.85		25.990	202.6	0.248
125	10.40	33.99		26.116	190.6	0.298
150	9.80	34.05		26.265	176.5	0.345
200	9.35	34.20		26.457	158.3	0.430
250	8.60	34.17		26.552	149.2	0.509
300	8.20	34.20		26.637	141.1	0.584
400	7.35	34.23		26.785	127.1	0.724

RV ALASKA CALCOFI CRUISE 7202 93030

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
32 50.5N	117 31.0W	2/13/72	2010 GMT					

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	13.80	33.50		25.091	288.1	0.000
10	13.30	33.52		25.209	276.9	0.028
20	13.20	33.50		25.213	276.5	0.056
30	12.80	33.46		25.262	271.9	0.083
50	11.60	33.51		25.529	246.5	0.135
75	10.55	33.60		25.787	221.9	0.194
100	10.40	33.84		26.000	201.7	0.248
125	10.15	34.03		26.190	183.6	0.297
150	9.85	34.13		26.319	171.3	0.342
200	9.20	34.20		26.481	156.0	0.425
250	8.50	34.20		26.591	145.5	0.503
300	8.00	34.24		26.699	135.3	0.575
400	7.15	34.29		26.861	119.9	0.709
500	6.45	34.33		26.987	107.9	0.829

RV ALASKA CALCOFI CRUISE 7202 93035

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
32 40.5N	117 51.5W	2/13/72	1630 GMT					

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	13.40	33.50		25.173	280.3	0.000
10	13.40	33.50		25.173	280.3	0.028
20	13.30	33.49		25.185	279.1	0.056
30	13.05	33.49		25.235	274.4	0.084
50	12.25	33.48		25.383	260.3	0.137
75	11.30	33.52		25.591	240.5	0.200
100	10.75	33.70		25.830	217.9	0.258
125	10.35	33.87		26.032	198.7	0.311
150	10.10	33.99		26.168	185.7	0.360
200	8.90	34.14		26.482	155.9	0.447
250	8.85	34.24		26.568	147.7	0.525
300	8.20	34.23		26.661	138.9	0.599
400	7.15	34.25		26.829	122.9	0.736
500	6.35	34.30		26.977	108.9	0.858

RV ALASKA CALCOFI CRUISE 7202 93045

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
32 20.0N	118 32.0W	2/13/72	0758 GMT					

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	14.10	33.42		24.968	299.8	0.000
10	14.05	33.42		24.978	298.9	0.030
20	13.75	33.43		25.048	292.2	0.060
30	13.50	33.43		25.099	287.4	0.089
50	13.00	33.42		25.191	278.6	0.145
75	11.75	33.41		25.423	256.5	0.213
100	10.35	33.53		25.767	223.8	0.273
125	9.80	33.70		25.993	202.4	0.327
150	9.50	33.82		26.136	188.8	0.377
200	8.65	33.99		26.404	163.3	0.466
250	8.35	34.11		26.544	150.0	0.547
300	8.05	34.19		26.652	139.7	0.621
400	7.20	34.26		26.830	122.8	0.758
500	6.35	34.31		26.985	108.2	0.881

RV ALASKA CALCOFI CRUISE 7202 93050

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
32 10.0N	118 52.5W	2/13/72	0345 GMT					

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	14.15	33.47		24.996	297.2	0.000
10	13.85	33.44		25.035	293.5	0.030
20	13.65	33.44		25.076	289.5	0.059
30	13.35	33.43		25.129	284.5	0.088
50	13.00	33.44		25.207	277.1	0.144
75	11.50	33.44		25.493	249.9	0.210
100	10.20	33.64		25.878	213.2	0.268
125	9.60	33.79		26.096	192.6	0.320
150	9.25	33.94		26.270	176.0	0.367
200	8.70	34.05		26.443	159.6	0.452
250	8.30	34.15		26.583	146.3	0.531
300	7.90	34.21		26.690	136.1	0.604
400	7.10	34.27		26.852	120.8	0.738
500	6.45	34.32		26.979	108.7	0.859

RV ALASKA — CALCOFI CRUISE 7202 — 93055

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
32 00.0N	119 13.0W	2/13/72	0010 GMT					

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	14.20	33.36		24.901	306.2	0.000
10	13.75	33.34		24.978	298.8	0.030
20	13.35	33.40		25.106	286.7	0.060
30	13.30	33.40		25.116	285.7	0.088
50	13.00	33.42		25.191	278.6	0.145
75	12.00	33.36		25.338	264.6	0.213
100	10.65	33.46		25.661	233.9	0.276
125	10.10	33.70		25.942	207.2	0.332
150	9.85	33.91		26.148	187.6	0.382
200	8.60	33.96		26.388	164.8	0.472
250	7.55	34.03		26.600	144.7	0.551
300	7.40	34.13		26.700	135.2	0.623
400	6.60	34.25		26.904	115.8	0.754
500	6.05	34.31		27.023	104.5	0.870

RV ALASKA — CALCOFI CRUISE 7202 — 93060

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
31 50.0N	119 34.0W	2/12/72	2115 GMT					

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	13.80	33.43		25.037	293.2	0.000
10	13.60	33.44		25.086	288.6	0.029
20	13.35	33.42		25.121	285.2	0.058
30	13.00	33.41		25.183	279.3	0.086
50	12.35	33.43		25.326	265.8	0.141
75	10.75	33.49		25.666	233.4	0.204
100	10.20	33.65		25.886	212.5	0.260
125	9.85	33.89		26.132	189.1	0.311
150	9.55	33.95		26.229	179.9	0.357
200	8.50	33.99		26.427	161.1	0.444
250	7.80	34.04		26.571	147.4	0.523
300	7.50	34.20		26.740	131.4	0.595
400	6.25	34.16		26.879	118.2	0.725
500	5.45	34.23		27.035	103.4	0.842

RV ALASKA — CALCOFI CRUISE 7202 — 93070

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
31 30.0N	120 13.0W	2/12/72	1422 GMT					

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	13.65	33.38		25.030	293.9	0.000
10	13.65	33.38		25.030	293.9	0.029
20	13.15	33.38		25.131	284.3	0.058
30	12.80	33.43		25.238	274.1	0.086
50	11.40	33.36		25.449	254.0	0.139
75	10.20	33.61		25.855	215.4	0.198
100	9.65	33.76		26.064	195.6	0.250
125	9.15	33.90		26.255	177.5	0.297
150	8.75	33.98		26.381	165.5	0.341
200	8.20	34.04		26.512	153.0	0.422
250	7.50	34.03		26.607	144.0	0.498
300	6.80	34.05		26.720	133.3	0.570
400	6.00	34.15		26.904	115.9	0.699
500	5.90	34.27		27.011	105.7	0.816

RV ALASKA — CALCOFI CRUISE 7202 — 93080

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
31 10.0N	120 54.0W	2/12/72	0820 GMT					

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	13.60	33.30		24.978	298.8	0.000
10	13.60	33.30		24.978	298.8	0.030
20	13.35	33.29		25.021	294.8	0.060
30	13.25	33.30		25.049	292.1	0.089
50	12.90	33.33		25.142	283.3	0.147
75	12.40	33.28		25.200	277.7	0.217
100	11.95	33.30		25.301	268.1	0.286
125	10.85	33.40		25.579	241.7	0.350
150	9.95	33.52		25.827	218.1	0.409
200	9.05	33.92		26.286	174.5	0.508
250	8.40	33.96		26.419	161.9	0.595
300	7.50	33.97		26.560	148.5	0.674

RV ALASKA CALCOFI CRUISE 7202 93090

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
30 50.0N	121 34.5W	2/12/72	0230 GMT					

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	14.30	33.41		24.918	304.6	0.000
10	14.05	33.40		24.963	300.3	0.030
20	14.00	33.41		24.981	298.6	0.060
30	13.85	33.39		24.996	297.1	0.090
50	13.60	33.38		25.040	293.0	0.149
75	13.30	33.32		25.054	291.6	0.223
100	12.70	33.31		25.165	281.0	0.295
125	11.75	33.40		25.416	257.2	0.363
150	10.60	33.52		25.716	228.7	0.424
200	9.25	33.87		26.215	181.2	0.529
250	8.80	34.05		26.427	161.1	0.616
300	8.45	34.15		26.560	148.5	0.696
400	7.30	34.28		26.800	125.7	0.839
500	6.40	34.29		26.962	110.3	0.964

RV ALASKA CALCOFI CRUISE 7202 93100

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
30 30.0N	122 13.0W	2/11/72	2029 GMT					

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	14.75	33.53		24.915	304.9	0.000
10	14.70	33.53		24.925	303.9	0.030
20	14.60	33.52		24.939	302.6	0.061
30	14.60	33.52		24.939	302.6	0.091
50	14.35	33.50		24.977	299.0	0.152
75	14.00	33.45		25.012	295.7	0.226
100	13.90	33.45		25.032	293.7	0.301
125	11.80	33.46		25.453	253.7	0.370
150	10.80	33.50		25.665	233.5	0.431
200	9.45	33.90		26.206	182.1	0.537
250	8.75	33.97		26.373	166.2	0.626
300	7.85	34.02		26.548	149.6	0.708
400	6.60	34.10		26.786	127.0	0.851
500	5.85	34.20		26.962	110.4	0.976

RV ALASKA CALCOFI CRUISE 7202 93110

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
30 08.0N	122 55.0W	2/11/72	1435 GMT					

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	15.25	33.64		24.891	307.2	0.000
10	15.25	33.64		24.891	307.2	0.031
20	15.25	33.64		24.891	307.2	0.061
30	15.25	33.64		24.891	307.2	0.092
50	15.25	33.64		24.891	307.2	0.154
75	15.10	33.65		24.931	303.3	0.231
100	14.90	33.61		24.944	302.1	0.307
125	13.45	33.54		25.194	278.3	0.380
150	12.25	33.66		25.523	247.0	0.447
200	9.45	33.77		26.105	191.7	0.558
250	8.75	33.98		26.381	165.5	0.650
300	7.80	34.01		26.548	149.6	0.731
400	6.25	34.10		26.832	122.6	0.872
500	5.80	34.24		27.000	106.8	0.993

RV ALASKA CALCOFI CRUISE 7202 93120

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
29 48.5N	123 34.0W	2/11/72	0936 GMT					

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	14.40	33.42		24.905	305.8	0.000
10	14.40	33.42		24.905	305.8	0.031
20	14.15	33.43		24.965	300.1	0.061
30	13.95	33.37		24.960	300.6	0.091
50	13.80	33.37		24.991	297.6	0.151
75	13.60	33.41		25.022	294.7	0.226
100	11.30	33.20		25.343	264.1	0.296
125	10.25	33.42		25.699	230.3	0.358
150	9.60	33.69		26.018	200.0	0.413
200	8.85	33.97		26.357	167.7	0.506
250	8.05	34.01		26.511	153.1	0.589
300	7.35	34.04		26.636	141.3	0.664
400	6.45	34.10		26.806	125.1	0.803
500	5.60	34.24		27.024	104.4	0.923

RV DAVID STARR JORDAN — CALCOFI CRUISE 7202 — 94031

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
32 38.0N	117 28.5W	2/ 1/72	0117 GMT	879M				

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0A	13.20	33.45		25.175	280.2	0.000
10	12.91	33.46		25.240	273.9	0.028
20	12.86	33.46		25.250	273.0	0.055
30	12.85	33.46		25.252	272.8	0.082
50	12.49	33.45		25.314	266.9	0.137
75	10.87	33.58		25.715	228.7	0.199
100	10.44	33.78		25.946	206.8	0.254
125	9.58	33.84		26.138	188.5	0.304
150	9.99	34.16		26.319	171.4	0.350
200	9.61	34.22		26.429	160.9	0.434
250	8.98	34.23		26.540	150.4	0.514
300	8.35	34.24		26.646	140.3	0.590
400	7.27	34.24		26.804	125.3	0.728
500	6.50	34.28		26.941	112.3	0.854

RV DAVID STARR JORDAN — CALCOFI CRUISE 7202 — 94031

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
32 38.0N	117 28.5W	2/ 1/72	0215 GMT	879M				

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT
14	13.10	33.506	5.84					274.1
12	12.85	33.493	6.07					270.4
32	12.81	33.491	6.00					269.8
42	12.63	33.486						266.8
52	12.38	33.480	5.43					262.7
67	11.16	33.554	4.50					235.6
82	10.77	33.621	4.06					224.0
102	10.34	33.770	3.46					205.5
126	9.58	33.854						187.5
146	10.02	34.074	2.38					178.2
175	9.89	34.200	1.90					166.8
206	9.55	34.237	1.65					158.7
234	9.26	34.230	1.72					154.7
273	8.77	34.259	1.37					145.1
331	8.09	34.254	1.12					135.6
405	7.20	34.255	0.95					123.2
478	6.62	34.270	0.62					114.6
558	6.11	34.311	0.39					105.2

Z	T	S	O2	SIGT	DT	DD
0	13.10	33.506	5.84	25.238	274.1	0.000
10	12.88	33.497	6.04	25.272	270.9	0.027
20	12.83	33.493	6.04	25.280	270.1	0.054
30	12.81	33.493	6.01	25.283	269.8	0.081
50	12.45	33.481	5.52	25.345	264.0	0.135
75	10.90	33.590	4.24	25.717	228.6	0.197
100	10.38	33.757	3.52	25.936	207.7	0.252
125	9.60	33.851	2.85	26.142	188.2	0.302
150	10.00	34.095	2.30	26.265	176.4	0.348
200	9.62	34.236	1.67	26.439	159.9	0.434
250	9.06	34.242	1.60	26.535	150.9	0.514
300	8.45	34.261	1.23	26.646	140.3	0.589
400	7.26	34.255	0.96	26.818	124.0	0.728
500	6.47	34.280	0.54	26.945	112.0	0.852

RV ALASKA — CALCOFI CRUISE 7202 — 97029

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
32 17.5N	117 04.5W	2/15/72	0800 GMT					

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	12.70	33.55		25.351	263.4	0.000
10	12.30	33.50		25.389	259.7	0.026
20	12.00	33.55		25.485	250.6	0.052
30	11.60	33.57		25.538	245.6	0.077

RV ALASKA — CALCOFI CRUISE 7202 — 97030

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
32 16.0N	117 07.0W	2/15/72	0908 GMT					

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	12.60	33.56		25.378	260.8	0.000
10	12.40	33.53		25.393	259.3	0.026
20	11.65	33.52		25.527	246.6	0.051

RV ALASKA — CALCOFI CRUISE 7202 — 97032

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
32 12.0N	117 15.0W	2/15/72	1100 GMT					

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	14.00	33.46		25.019	294.9	0.000
10	14.00	33.46		25.019	294.9	0.030
20	13.65	33.39		25.037	293.2	0.059
30	13.35	33.41		25.114	286.0	0.088
50	12.95	33.40		25.186	279.1	0.145
75	11.40	33.45		25.519	247.4	0.211
100	10.40	33.54		25.766	223.9	0.270
125	9.60	33.71		26.034	198.5	0.324
150	9.65	33.89		26.166	185.9	0.372
200	8.90	34.04		26.404	163.3	0.461
250	8.90	34.20		26.529	151.4	0.542
300	8.55	34.27		26.638	141.0	0.618
400	7.20	34.24		26.814	124.3	0.756
500	6.50	34.28		26.941	112.3	0.881

A) A SHORELINE STATION.

RV ALASKA CALCOFI CRUISE 7202 97035

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
32 05.5N	117 27.5W	2/15/72	1400 GMT					

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	13.95	33.45		25.022	294.7	0.000
10	13.95	33.45		25.022	294.7	0.029
20	13.95	33.45		25.022	294.7	0.059
30	13.80	33.44		25.045	292.5	0.088
50	13.45	33.43		25.109	286.4	0.147
75	12.45	33.36		25.252	272.8	0.217
100	11.50	33.51		25.547	244.7	0.282
125	11.15	33.72		25.774	223.2	0.341
150	10.85	33.97		26.021	199.6	0.395
200	9.10	33.96		26.310	172.2	0.489
250	8.15	34.03		26.512	153.1	0.573
300	7.50	34.09		26.654	139.5	0.648
400	6.90	34.25		26.864	119.7	0.783
500	6.30	34.30		26.983	108.3	0.904

RV ALASKA CALCOFI CRUISE 7202 97040

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
31 55.5N	117 48.0W	2/15/72	1700 GMT					

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	13.85	33.45		25.043	292.7	0.000
10	13.85	33.45		25.043	292.7	0.029
20	13.80	33.45		25.053	291.7	0.059
30	13.50	33.45		25.114	285.9	0.087
50	13.10	33.47		25.210	276.8	0.144
75	12.30	33.49		25.382	260.5	0.212
100	10.90	33.48		25.632	236.6	0.274
125	10.10	33.66		25.911	210.1	0.331
150	9.35	33.84		26.176	185.0	0.381
200	8.60	34.00		26.420	161.8	0.469
250	7.90	34.01		26.533	151.0	0.549
300	7.25	34.07		26.674	137.7	0.624
400	6.60	34.16		26.833	122.5	0.759
500	6.35	34.33		27.000	106.7	0.880

RV ALASKA CALCOFI CRUISE 7202 97045

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
31 46.0N	118 08.0W	2/15/72	2055 GMT					

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	14.10	33.40		24.952	301.3	0.000
10	13.80	33.44		25.045	292.5	0.030
20	13.40	33.42		25.111	286.2	0.059
30	13.20	33.42		25.151	282.4	0.087
50	12.35	33.40		25.303	268.0	0.142
75	10.95	33.44		25.592	240.4	0.206
100	10.05	33.62		25.888	212.3	0.263
125	9.40	33.79		26.129	189.4	0.314
150	9.10	33.89		26.255	177.4	0.361
200	8.35	33.99		26.450	158.9	0.446
250	7.50	34.05		26.623	142.5	0.524
300	7.05	34.10		26.725	132.8	0.595
400	6.60	34.22		26.881	118.0	0.725
500	6.15	34.31		27.011	105.7	0.843

RV ALASKA CALCOFI CRUISE 7202 97050

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
31 36.0N	118 30.0W	2/16/72	0110 GMT					

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	14.45	33.49		24.948	301.7	0.000
10	14.45	33.49		24.948	301.7	0.030
20	14.40	33.48		24.951	301.5	0.060
30	14.35	33.48		24.961	300.4	0.091
50	13.85	33.41		25.012	295.7	0.150
75	13.50	33.34		25.029	294.0	0.224
100	12.50	33.41		25.281	270.0	0.296
125	10.80	33.56		25.712	229.0	0.359
150	10.00	33.78		26.021	199.6	0.413
200	8.85	33.96		26.349	168.5	0.507
250	6.15	34.07		26.543	150.1	0.588
300	7.65	34.14		26.672	137.9	0.663
400	6.75	34.25		26.884	117.7	0.796

RV ALASKA CALCOFI CRUISE 7202 97055

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
31 24.0N	118 49.0W	2/16/72	0515 GMT					

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	14.60	33.52		24.939	302.6	0.000
10	14.60	33.52		24.939	302.6	0.030
20	14.60	33.52		24.939	302.6	0.061
30	14.50	33.50		24.945	302.0	0.091
50	14.10	33.44		24.983	298.4	0.151
75	13.60	33.34		25.009	295.9	0.226
100	12.00	33.45		25.408	258.0	0.296
125	10.90	33.67		25.780	222.6	0.356
150	10.30	33.69		25.900	211.2	0.411
200	9.20	33.91		26.255	177.5	0.510
250	8.15	33.98		26.473	156.8	0.596
300	7.35	34.01		26.613	143.5	0.673
400	6.30	34.10		26.826	123.3	0.812
500	5.85	34.23		26.986	108.1	0.933

RV ALASKA CALCOFI CRUISE 7202 97060

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
31 15.0N	119 10.0W	2/16/72	0825 GMT					

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	14.10	33.44		24.983	298.4	0.000
10	14.10	33.45		24.991	297.7	0.030
20	13.80	33.40		25.014	295.4	0.060
30	13.35	33.34		25.060	291.1	0.089
50	13.00	33.37		25.153	282.3	0.146
75	12.35	33.37		25.279	270.2	0.216
100	11.90	33.40		25.388	259.9	0.283
125	10.65	33.55		25.731	227.3	0.344
150	9.90	33.80		26.054	196.6	0.398
200	8.95	33.98		26.349	168.5	0.491
250	8.00	34.05		26.550	149.4	0.572
300	7.15	34.03		26.656	139.3	0.647
400	6.20	34.10		26.839	122.0	0.782
500	5.65	34.20		26.987	108.0	0.903

RV ALASKA CALCOFI CRUISE 7202 97070

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
30 54.0N	119 50.0W	2/16/72	1530 GMT					

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	13.00	33.34		25.129	284.5	0.000
10	12.90	33.40		25.196	278.2	0.028
20	11.85	33.35		25.358	262.7	0.055
30	11.50	33.44		25.493	249.9	0.081
50	10.80	33.50		25.665	233.5	0.129
75	10.15	33.65		25.895	211.7	0.185
100	9.85	33.80		26.062	195.8	0.237
125	9.60	33.90		26.182	184.4	0.285
150	9.15	33.99		26.325	170.8	0.330
200	8.45	34.03		26.466	157.4	0.414
250	7.80	34.08		26.603	144.4	0.491
300	7.00	34.08		26.716	133.6	0.563
400	6.35	34.18		26.882	117.9	0.694
500	5.80	34.33		27.071	100.0	0.809

RV ALASKA CALCOFI CRUISE 7202 97080

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
30 35.0N	120 30.0W	2/16/72	2125 GMT					

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	13.50	33.44		25.106	286.6	0.000
10	13.45	33.44		25.117	285.7	0.029
20	13.40	33.43		25.119	285.4	0.057
30	13.35	33.43		25.129	284.5	0.086
50	12.85	33.41		25.213	276.5	0.142
75	11.15	33.45		25.587	240.9	0.207
100	10.40	33.61		25.821	218.7	0.265
125	9.50	33.61		26.128	189.5	0.317
150	9.50	34.03		26.299	173.2	0.363
200	8.50	34.06		26.482	155.9	0.447
250	8.45	34.23		26.623	142.5	0.523
300	7.75	34.19		26.696	135.5	0.595
400	6.10	34.12		26.867	119.3	0.728
500	5.65	34.29		27.058	101.3	0.844

RV ALASKA — CALCOFI CRUISE 7202 — 97090

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
30 15.0N	121 09.5W	2/17/72	0400 GMT					

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	14.00	33.40		24.973	299.3	0.000
10	14.00	33.41		24.981	298.6	0.030
20	14.00	33.42		24.988	297.9	0.060
30	14.00	33.43		24.996	297.1	0.090
50	13.45	33.35		25.047	292.3	0.149
75	12.70	33.32		25.173	280.3	0.221
100	12.05	33.37		25.336	264.8	0.289
125	11.70	33.45		25.464	252.7	0.355
150	11.45	33.47		25.525	246.8	0.418
200	9.40	33.89		26.207	182.0	0.527
250	8.70	34.00		26.404	163.3	0.615
300	7.65	34.01		26.570	147.6	0.695
400	6.60	34.10		26.786	127.0	0.838
500	5.80	34.20		26.968	109.8	0.963

RV DAVID STARR JORDAN — CALCOFI CRUISE 7202 — 100029

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
31 42.0N	116 43.5W	2/ 1/72	0927 GMT	93M		0KT	0	00

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	12.37	33.46		25.345	263.9	0.000
10	12.33	33.46		25.353	263.2	0.026
20	11.90	33.53		25.488	250.3	0.052
30	11.78	33.57		25.542	245.2	0.077
50	11.40	33.69		25.705	229.7	0.125
75	11.21	33.77		25.802	220.5	0.181

RV DAVID STARR JORDAN — CALCOFI CRUISE 7202 — 100030

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
31 40.5N	116 46.5W	2/ 1/72	1112 GMT	408M		0KT	0	00

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	12.23	33.52		25.418	257.0	0.000
10	11.83	33.52		25.494	249.8	0.025
20	11.38	33.62		25.654	234.5	0.050
30	11.02	33.69		25.774	223.2	0.073
50	10.89	33.77		25.859	215.1	0.117
75	10.73	33.85		25.950	206.4	0.170
100	10.25	33.92		26.088	193.3	0.220
125	10.27	34.03		26.170	185.5	0.268
150	10.11	34.13		26.275	175.5	0.314
200	9.52	34.23		26.452	158.7	0.399
250	9.14	34.25		26.530	151.3	0.479
300	8.57	34.26		26.628	142.0	0.555

RV DAVID STARR JORDAN — CALCOFI CRUISE 7202 — 100030

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
31 40.5N	116 46.5W	2/ 1/72	1205 GMT	408M		0KT	0	00

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT
0	12.19	33.559		0.74	10.	0.22	3.2	253.4
10	12.20	33.557	5.33	0.71	9.	0.21	3.4	253.7
30	11.21	33.679	4.06	1.48	17.	0.19	15.1	227.2
40	11.02	33.714	3.88	1.51	20.	0.17	17.1	221.4
55	10.90	33.792	3.24	1.70	22.	0.13	17.2	213.6
71	10.76	33.814	3.23	1.76	21.	0.14	19.4	209.6
87	10.74	33.851	3.09	1.79	24.	0.15	19.6	206.5
106	10.30	33.921	3.02	1.84	25.	0.16	20.3	194.1
131	10.30	34.054	2.60	2.14	29.	0.12	22.3	184.2
156	10.20	34.121	2.09	2.25	33.	0.13	25.5	177.7

Z	T	S	O2	SIGT	DT	DD
0	12.19	33.559		25.456	253.4	0.000
10	12.20	33.557	5.33	25.453	253.7	0.025
20	11.74	33.612	4.54	25.581	241.5	0.050
30	11.21	33.679	4.06	25.731	227.2	0.074
50	10.93	33.769	3.44	25.850	215.9	0.118
75	10.76	33.821	3.20	25.921	209.1	0.172
100	10.44	33.697	3.05	26.035	198.3	0.223
125	10.30	34.030	2.72	26.164	186.1	0.272
150	10.23	34.112	2.22	26.239	178.9	0.318

RV DAVID STARR JORDAN — CALCOFI CRUISE 7202 — 100035

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
31 30.5N	117 07.0W	2/ 1/72	1434 GMT	1276M	220	4KT	2	

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	13.23	33.43		25.153	282.2	0.000
10	13.23	33.43		25.153	282.2	0.028
20	13.22	33.43		25.155	282.0	0.056
30	13.18	33.43		25.163	281.3	0.085
50	13.10	33.42		25.171	280.5	0.141
75	11.73	33.40		25.419	256.9	0.209
100	10.95	33.74		25.825	218.3	0.269
125	10.80	33.98		26.038	196.0	0.321
150	10.47	34.05		26.151	187.3	0.370
200	9.64	34.22		26.424	161.3	0.459
250	8.74	34.21		26.562	148.3	0.539
300	8.36	34.26		26.660	139.0	0.613
400	7.30	34.28		26.832	122.7	0.750
500	6.52	34.30		26.954	111.1	0.873

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 100040

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
31 21.0N	117 27.0W	2/ 1/72	1719 GMT	2037M	330	6KT	2	

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	13.08	33.36		25.129	284.5	0.000
10	12.95	33.38		25.170	280.6	0.028
20	12.93	33.38		25.174	280.2	0.056
30	12.87	33.38		25.186	279.1	0.084
50	12.73	33.39		25.221	275.7	0.140
75	12.41	33.44		25.322	266.1	0.208
100	11.40	33.61		25.643	235.6	0.271
125	10.85	33.79		25.882	212.9	0.328
150	9.99	33.87		26.093	192.8	0.380
200	9.08	33.99		26.336	169.7	0.472
250	8.57	34.13		26.526	151.7	0.554
300	8.00	34.20		26.667	138.3	0.629
400	6.88	34.25		26.867	119.4	0.764
500	6.28	34.32		27.002	106.6	0.883

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 100040

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
31 21.0N	117 27.0W	2/ 1/72	1812 GMT	2037M	330	6KT	2	

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT
0	13.09	33.417		0.49	3.		0.2	280.5
10	13.06	33.417	6.32	0.380	3.		0.4	279.9
30	12.88	33.419	6.19	0.49	3.		0.8	276.4
55	12.62	33.414	5.98	0.50	4.		2.3	271.9
70	12.28	33.441	6.07	0.69	5.		4.1	263.7
85	11.65	33.516	4.91	1.02	11.		10.3	246.9
100	11.21	33.665	3.98	1.43	16.		15.2	228.3
130	10.72	33.841	3.19	1.73	22.		20.6	206.9
155	10.05	33.914	3.16	1.82	24.		21.6	190.5
181	9.41	34.009	3.20	1.88	28.		24.8	173.4
215	8.93	34.071	2.78	2.10	34.		25.6	161.4
278	8.22	34.183	1.72	2.50	45.		31.4	142.7
375	7.04	34.219	1.06	2.63	61.		34.9	123.8
472	6.43	34.313	0.56	3.03	74.		38.9	109.0
601	5.76	34.377	0.37	3.21	86.		41.1	96.0
750	5.14	34.427	0.41	3.33	98.		44.1	85.2
896	4.58	34.450	0.47	3.32	107.		39.40	77.4
1105	3.82	34.503	0.64	3.27	126.			65.8

Z	T	S	O2	SIGT	DT	DD
0	13.09	33.417		25.171	280.5	0.000
10	13.06	33.417	6.32	25.177	279.9	0.028
20	12.98	33.420	6.26	25.193	278.4	0.056
30	12.88	33.419	6.19	25.214	276.4	0.084
50	12.69	33.415	6.01	25.247	273.3	0.139
75	12.08	33.461	5.74	25.400	258.7	0.206
100	11.21	33.665	3.98	25.720	228.3	0.267
125	10.80	33.822	3.24	25.915	209.7	0.323
150	10.19	33.903	3.17	26.083	193.8	0.374
200	9.11	34.050	3.00	26.377	165.9	0.465
250	8.52	34.139	2.18	26.539	150.4	0.547
300	7.93	34.196	1.51	26.674	137.7	0.621
400	6.85	34.244	0.91	26.865	119.6	0.755
500	6.27	34.331	0.49	27.011	105.7	0.874
600	5.76	34.377	0.37	27.112	96.1	0.983
700	5.34	34.414	0.40	27.193	88.4	1.083
800	4.94	34.436	0.43	27.257	82.4	1.177
1000	4.20	34.475	0.54	27.370	71.7	1.350

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 100050

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
31 01.5N	118 06.0W	2/ 1/72	2304 GMT	1485M	220	7KT	2	280 1 7

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	14.38	33.46		24.940	302.5	0.000
10	14.32	33.46		24.952	301.3	0.030
20	13.98	33.40		24.977	298.9	0.060
30	13.78	33.39		25.011	295.7	0.090
50	13.71	33.38		25.017	295.1	0.149
75	13.43	33.35		25.051	291.9	0.223
100	12.39	33.36		25.264	271.7	0.294
125	10.67	33.45		25.649	235.0	0.358
150	9.85	33.73		26.008	200.9	0.413
200	8.71	33.91		26.332	170.1	0.508
250	7.80	34.00		26.540	150.4	0.590
300	7.31	34.09		26.681	137.0	0.664
400	6.13	34.13		26.871	118.9	0.797
500	6.11	34.31		27.016	105.2	0.915
600	5.50	34.36		27.131	94.3	1.022
700	5.08	34.39		27.205	87.3	1.120
800	4.66	34.45		27.300	78.3	1.211
1000	4.00	34.49		27.403	68.5	1.376

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 100060

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
30 40.5N	118 47.5W	2/ 2/72	0355 GMT	3075M	300	12KT	2	

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	14.41	33.50		24.964	300.2	0.000
10	14.40	33.50		24.966	300.0	0.030
20	14.40	33.50		24.966	300.0	0.060
30	14.34	33.49		24.971	299.5	0.090
50	14.31	33.49		24.977	298.9	0.150
75	14.28	33.49		24.984	298.3	0.225
100	12.38	33.35		25.258	272.2	0.297
125	11.32	33.43		25.518	247.5	0.363
150	10.19	33.64		25.880	213.1	0.421
200	8.92	33.90		26.291	174.0	0.519
250	7.92	33.97		26.499	154.3	0.604
300	7.22	34.00		26.623	142.5	0.680
400	6.36	34.12		26.834	122.5	0.818
500	5.57	34.20		26.996	107.1	0.938
600	5.20	34.28		27.104	96.9	1.047
700	4.92	34.36		27.200	87.8	1.146
800	4.65	34.42		27.277	80.4	1.239
1000	3.92	34.48		27.403	68.5	1.405

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 100060

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
30 40.5N	118 47.5W	2/ 2/72	0527 GMT	3075M	300	12KT	2	

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
0	14.36	33.519	5.87		2.	0.00	0.2	297.8	0	14.36	33.519	5.87	24.989	297.8	0.000
10	14.37	33.519	5.88		2.	0.00	0.4	298.0	10	14.37	33.519	5.88	24.987	298.0	0.030
30	14.27	33.501	5.89		2.	0.08	0.2	297.3	20	14.32	33.512	5.89	24.990	297.7	0.060
55	14.30	33.508	5.91		3.	0.04	0.0	297.4	30	14.27	33.501	5.89	24.994	297.3	0.089
70	14.29	33.512	5.89			0.05	0.0	296.9	50	14.29	33.507	5.91	24.994	297.4	0.149
85	13.98	33.481	5.54	0.38	2.	0.08	0.5	293.0	75	14.19	33.503	5.81	25.012	295.6	0.224
100	12.26	33.374	4.87	0.64	6.	0.06	4.3	268.3	100	12.26	33.374	4.87	25.300	268.3	0.295
130	11.29	33.548	4.50	0.94	10.	0.09	8.6	238.3	125	11.34	33.508	4.52	25.574	242.2	0.359
155	10.45	33.635	4.17	1.25	15.	0.03	14.2	217.7	150	10.61	33.618	4.24	25.788	221.8	0.418
179	9.75	33.803	3.84	1.43	20.	0.02	18.0	194.0	200	9.24	33.892	3.37	26.233	179.6	0.520
214	8.94	33.929	3.02	1.66	27.	0.06	22.5	172.1	250	8.19	33.984	2.19	26.468	157.2	0.606
278	7.70	34.003	1.63	2.11	42.	0.01	27.7	148.8	300	7.44	34.028	1.38	26.614	143.3	0.684
376	6.73	34.096	0.87	2.72	61.	0.00	34.8	128.9	400	6.46	34.110	0.72	26.812	124.5	0.823
474	5.72	34.154	0.38	3.12	80.	0.02	40.2	112.3	500	5.57	34.182	0.39	26.981	108.5	0.945
606	5.17	34.290	0.41	3.30	96.	0.00	43.6	95.8	600	5.18	34.285	0.41	27.109	96.4	1.054
756	4.64	34.373	0.57	3.36		0.00	44.5	83.8	700	4.82	34.347	0.50	27.199	87.8	1.154
903	4.26	34.462	0.79			0.00	45.0	73.2	800	4.52	34.402	0.63	27.277	80.4	1.246
1110	3.63	34.510		3.37		0.00	43.2	63.5	1000	3.98	34.496		27.410	67.9	1.411

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 100070

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
30 20.0N	119 27.0W	2/ 2/72	1220 GMT	3451M	320	9KT		

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
									0	14.36	33.51		24.982	298.5	0.000
									10	14.36	33.50		24.975	299.2	0.030
									20	14.35	33.50		24.977	299.0	0.060
									30	14.34	33.50		24.979	298.8	0.090
									50	13.91	33.42		25.007	296.1	0.149
									75	13.47	33.36		25.051	291.9	0.223
									100	12.33	33.36		25.275	270.6	0.294
									125	10.87	33.47		25.630	236.9	0.358
									150	9.83	33.68		25.972	204.3	0.414
									200	9.03	33.92		26.290	174.1	0.511
									250	8.11	33.98		26.479	156.2	0.595
									300	7.20	34.01		26.634	141.5	0.672
									400	6.19	34.08		26.824	123.4	0.809
									500	5.49	34.19		26.998	106.9	0.930
									600	5.23	34.29		27.108	96.5	1.038
									700	5.05	34.38		27.200	87.7	1.138
									800	4.60	34.42		27.283	79.9	1.230
									1000	3.99	34.48		27.396	69.2	1.396

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 100080

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
30 00.0N	120 07.0W	2/ 2/72	1730 GMT	4116M	360	9KT	2	

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
									0	14.26	33.49		24.988	297.9	0.000
									10	14.24	33.49		24.992	297.5	0.030
									20	14.24	33.49		24.992	297.5	0.060
									30	14.24	33.49		24.992	297.5	0.089
									50	14.20	33.49		25.001	296.7	0.149
									75	13.90	33.44		25.025	294.4	0.223
									100	11.42	33.56		25.601	239.6	0.291
									125	10.23	33.70		25.920	209.3	0.347
									150	9.87	33.84		26.090	193.1	0.398
									200	8.83	34.01		26.392	164.5	0.489
									250	8.09	34.03		26.521	152.2	0.571
									300	7.34	34.05		26.645	140.4	0.646
									400	6.48	34.22		26.897	116.5	0.780
									500	6.05	34.31		27.023	104.5	0.896
									600	5.49	34.37		27.140	93.4	1.002
									700	5.06	34.41		27.223	85.6	1.100
									800	4.70	34.44		27.288	79.4	1.190
									1000	4.02	34.50		27.409	68.0	1.356

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 100080

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
30 00.0N	120 07.0W	2/ 2/72	1829 GMT	4116M	360	9KT	2	

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
0	14.26	33.503	5.88	0.30	2.	0.03	0.3	297.0	0	14.26	33.503	5.88	24.998	297.0	0.000
10	14.23	33.502	5.90	0.33	2.	0.01	0.5	296.4	10	14.23	33.502	5.90	25.003	296.4	0.030
30	14.22	33.499	5.91	0.34	2.	0.01	0.1	296.4	20	14.22	33.502	5.91	25.003	296.4	0.059
55	14.14	33.491	5.90	0.34	2.	0.00	0.3	295.4	30	14.22	33.499	5.91	25.003	296.4	0.089
70	13.93	33.484	5.91	0.40	2.	0.05	0.2	293.3	50	14.16	33.494	5.90	25.012	295.6	0.148
85	12.80	33.434	5.47	0.60	5.	0.03	3.6	273.0	75	13.60	33.449	5.79	25.091	288.1	0.222
100	11.74	33.523	4.97	0.84	8.	0.01	7.6	248.0	100	11.74	33.523	4.97	25.513	248.0	0.289
130	10.18	33.715	4.36	1.26	16.	0.00	15.0	207.4	125	10.37	33.685	4.45	25.882	212.9	0.348
154	9.79	33.859	3.65	1.61	22.	0.01	19.6	190.4	150	9.83	33.839	3.76	26.095	192.7	0.399
180	9.30	33.955	3.50	1.70	28.	0.07	22.4	175.7	200	8.85	33.993	3.49	26.374	166.1	0.490
215	8.52	34.009	3.48	1.93	34.	0.03	25.0	160.0	250	7.96	34.040	2.93	26.546	149.8	0.571
279	7.60	34.056	2.34	2.31A	48.	0.01	29.3	143.4	300	7.33	34.073	2.04	26.664	138.6	0.646
377	6.57	34.144	1.18	2.85A	65.	0.03	36.2	123.3	400	6.47	34.179	0.97	26.864	119.6	0.780
474	6.26	34.282	0.46	3.18A	76.	0.03	39.2	109.2	500	6.11	34.304	0.43	27.010	105.8	0.899
605	5.48	34.363	0.31	3.31	92.	0.01	42.5	93.5	600	5.51	34.362	0.32	27.131	94.3	1.006
756	4.79	34.427	0.36	3.38	107.	0.06	42.7	81.4	700	5.02	34.407	0.34	27.225	85.4	1.104
902	4.34	34.470	0.53	3.37	116.	0.03	42.8	73.4	800	4.64	34.442	0.41	27.295	78.7	1.194
1110	3.73	34.514	0.71	3.24	129.	0.00	42.2	64.1	1000	4.05	34.494	0.62	27.400	68.7	1.359

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 100090

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
29 40.5N	120 48.0W	2/ 2/72	2302 GMT	3926M	110	6KT	1	350 1 5

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
									0	14.07	33.43		24.982	298.5	0.000
									10	13.95	33.43		25.006	296.2	0.030
									20	13.91	33.42		25.007	296.1	0.059
									30	13.86	33.43		25.025	294.4	0.089
									50	13.85	33.43		25.027	294.2	0.148
									75	13.70	33.41		25.043	292.7	0.222
									100	12.55	33.43		25.287	269.4	0.293
									125	10.71	33.47		25.658	234.2	0.356
									150	10.14	33.66		25.904	210.8	0.413
									200	9.12	33.99		26.330	170.3	0.510
									250	8.09	34.00		26.497	154.4	0.593
									300	7.37	34.04		26.633	141.5	0.669
									400	6.36	34.15		26.857	120.3	0.805
									500	5.72	34.23		27.002	106.6	0.925
									600	5.44	34.34		27.123	95.1	1.032
									700	5.07	34.40		27.214	86.5	1.131
									800	4.64	34.44		27.294	78.8	1.221
									1000	4.04	34.49		27.399	68.9	1.387

RV ALASKA CALCOFI CRUISE 7202 103029

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
31 07.0N	116 21.0W	2/19/72	0255 GMT					

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
									0	13.25	33.58		25.265	271.6	0.000
									10	13.05	33.59		25.313	267.0	0.027
									20	12.60	33.54		25.362	262.3	0.053

RV ALASKA CALCOFI CRUISE 7202 103030

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
31 06.0N	116 24.5W	2/19/72	0200 GMT					

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
									0	13.60	33.48		25.117	285.6	0.000
									10	13.50	33.51		25.160	281.5	0.028
									20	13.05	33.57		25.297	268.5	0.056
									30	12.50	33.59		25.420	256.8	0.082

A) THE PHOSPHATE SAMPLES FROM 279 TO 474 METERS APPEAR TO HAVE BEEN REVERSED. THEY ARE ASSUMED TO NOW BE IN THE CORRECT ORDER.

RV ALASKA — CALCOFI CRUISE 7202 — 103035

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
30 56.0N	116 45.0W	2/18/72	2250 GMT					

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	14.20	33.47		24.985	298.2	0.000
10	14.00	33.45		25.012	295.7	0.030
20	13.80	33.41		25.022	294.7	0.059
30	13.70	33.43		25.058	291.3	0.089
50	13.15	33.41		25.154	282.1	0.146
75	11.90	33.49		25.457	253.2	0.213
100	11.20	33.74		25.780	222.6	0.273
125	10.15	33.79		26.004	201.3	0.327
150	9.65	34.04		26.282	174.8	0.375
200	9.70	34.30		26.477	156.4	0.459
250	8.90	34.31		26.615	143.3	0.536
300	8.65	34.37		26.701	135.1	0.609
400	7.60	34.36		26.851	120.8	0.743
500	6.75	34.37		26.979	108.8	0.865

RV ALASKA — CALCOFI CRUISE 7202 — 103040

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
30 47.0N	117 06.0W	2/18/72	1930 GMT					

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	14.20	33.44		24.962	300.4	0.000
10	14.15	33.45		24.980	298.6	0.030
20	14.15	33.46		24.988	297.9	0.060
30	13.60	33.40		25.055	291.5	0.089
50	13.30	33.41		25.124	285.0	0.147
75	12.50	33.40		25.274	270.7	0.217
100	11.45	33.43		25.494	249.7	0.283
125	11.00	33.89		25.933	208.1	0.341
150	10.35	34.07		26.187	183.9	0.390
200	9.85	34.30		26.451	158.8	0.478
250	8.55	34.20		26.584	146.2	0.556
300	8.60	34.31		26.662	138.8	0.630
400	7.65	34.32		26.813	124.5	0.768
500	6.60	34.37		26.999	106.8	0.890

RV ALASKA — CALCOFI CRUISE 7202 — 103045

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
30 35.0N	117 24.0W	2/18/72	1445 GMT					

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	14.30	33.45		24.949	301.6	0.000
10	14.30	33.45		24.949	301.6	0.030
20	14.30	33.45		24.949	301.6	0.060
30	14.05	33.40		24.963	300.3	0.091
50	13.55	33.35		25.027	294.2	0.150
75	12.35	33.29		25.217	276.1	0.222
100	11.30	33.50		25.576	242.0	0.287
125	10.20	33.62		25.863	214.7	0.345
150	9.65	33.85		26.134	188.9	0.396
200	9.25	34.04		26.348	168.6	0.487
250	8.80	34.15		26.506	153.6	0.570
300	8.50	34.27		26.646	140.3	0.646
400	7.30	34.29		26.839	122.0	0.783
500	6.40	34.31		26.978	108.8	0.905

RV ALASKA — CALCOFI CRUISE 7202 — 103050

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
30 26.0N	117 44.0W	2/18/72	1100 GMT					

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	14.20	33.48		24.993	297.4	0.000
10	14.20	33.48		24.993	297.4	0.030
20	13.85	33.43		25.027	294.2	0.059
30	13.75	33.43		25.048	292.2	0.089
50	13.15	33.40		25.146	282.9	0.146
75	12.10	33.40		25.350	263.5	0.215
100	11.00	33.48		25.614	238.3	0.278
125	10.50	33.61		25.803	220.3	0.336
150	10.15	33.80		26.011	200.6	0.390
200	9.55	34.05		26.307	172.5	0.485
250	8.95	34.15		26.482	155.9	0.569
300	8.30	34.17		26.599	144.8	0.647
400	7.10	34.24		26.828	123.0	0.786
500	6.45	34.31		26.971	109.4	0.909

RV ALASKA CALCOFI CRUISE 7202 103055

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
30 14.0N	118 05.0W	2/18/72	0708 GMT					

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	14.80	33.80		25.111	286.2	0.000
10	14.80	33.57		24.935	303.0	0.029
20	14.80	33.57		24.935	303.0	0.060
30	14.55	33.49		24.927	303.7	0.090
50	13.80	33.43		25.037	293.2	0.150
75	13.20	33.39		25.128	284.6	0.223
100	12.35	33.37		25.279	270.2	0.293
125	10.60	33.52		25.716	228.7	0.356
150	10.00	33.75		25.998	201.9	0.410
200	9.15	33.96		26.302	173.0	0.506
250	8.50	34.01		26.443	159.6	0.591
300	7.90	34.13		26.627	142.1	0.669
400	7.05	34.22		26.819	123.8	0.807
500	6.25	34.27		26.966	109.9	0.931

RV ALASKA CALCOFI CRUISE 7202 103060

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
30 06.0N	118 25.0W	2/18/72	0320 GMT					

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	14.95	33.58		24.910	305.3	0.000
10	14.90	33.57		24.913	305.0	0.031
20	14.85	33.57		24.924	304.0	0.061
30	14.80	33.57		24.935	303.0	0.091
50	14.55	33.53		24.957	300.8	0.152
75	13.30	33.35		25.077	289.4	0.226
100	11.60	33.42		25.459	253.1	0.295
125	10.75	33.66		25.799	220.8	0.354
150	9.95	33.80		26.045	197.4	0.407
200	9.00	33.96		26.326	170.7	0.501
250	8.10	34.02		26.511	153.1	0.584
300	7.50	34.05		26.623	142.5	0.660
400	6.35	34.13		26.843	121.6	0.798
500	5.95	34.24		26.981	108.5	0.919

RV ALASKA CALCOFI CRUISE 7202 103070

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
29 46.5N	119 04.0W	2/17/72	2220 GMT					

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	15.70	33.68		24.822	313.7	0.000
10	15.65	33.67		24.825	313.4	0.031
20	15.60	33.67		24.836	312.4	0.063
30	15.45	33.63		24.839	312.1	0.094
50	15.30	33.62		24.864	309.7	0.156
75	14.05	33.43		24.986	298.1	0.233
100	12.30	33.38		25.297	268.6	0.304
125	11.30	33.56		25.622	237.6	0.368
150	10.25	33.77		25.971	204.4	0.424
200	9.70	34.11		26.329	170.4	0.520
250	8.90	34.11		26.459	158.1	0.604
300	8.35	34.18		26.599	144.8	0.682
400	7.30	34.25		26.808	124.9	0.823
500	6.40	34.27		26.947	111.8	0.948

RV ALASKA CALCOFI CRUISE 7202 103080

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
29 26.0N	119 43.0W	2/17/72	1455 GMT					

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	15.65	33.68		24.833	312.7	0.000
10	15.65	33.68		24.833	312.7	0.031
20	15.65	33.68		24.833	312.7	0.063
30	15.65	33.68		24.833	312.7	0.094
50	15.65	33.69		24.840	311.9	0.157
75	15.25	33.60		24.860	310.1	0.235
100	12.15	33.51		25.426	256.3	0.306
125	10.95	33.71		25.802	220.5	0.366
150	10.20	33.97		26.135	188.8	0.418
200	9.40	34.17		26.425	161.3	0.508
250	8.75	34.21		26.560	148.4	0.587
300	8.60	34.31		26.662	138.8	0.662
400	7.45	34.33		26.850	121.0	0.798
500	6.65	34.36		26.984	108.2	0.919

RV ALASKA — CALCOFI CRUISE 7202 — 107031

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
30 28.0N	116 07.0W	2/19/72	0730 GMT					

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	13.40	33.53		25.196	278.1	0.000
10	13.35	33.53		25.206	277.1	0.028
20	13.05	33.52		25.259	272.2	0.055
30	12.65	33.54		25.353	263.2	0.082

RV ALASKA — CALCOFI CRUISE 7202 — 107032

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
30 26.0N	116 11.5W	2/19/72	0845 GMT					

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	13.60	33.50		25.132	284.2	0.000
10	13.60	33.50		25.132	284.2	0.028
20	13.60	33.50		25.132	284.2	0.057
30	13.45	33.46		25.132	284.2	0.085
50	12.30	33.49		25.382	260.5	0.140
75	11.40	33.75		25.751	225.3	0.201
100	10.80	33.98		26.038	198.0	0.255
125	10.55	34.07		26.152	187.2	0.303

RV ALASKA — CALCOFI CRUISE 7202 — 107035

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
30 21.5N	116 22.5W	2/19/72	1155 GMT					

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	14.10	33.48		25.014	295.4	0.000
10	14.10	33.48		25.014	295.4	0.030
20	14.00	33.47		25.027	294.2	0.059
30	13.55	33.47		25.119	285.4	0.088
50	13.20	33.46		25.182	279.4	0.145
75	11.20	33.49		25.586	241.0	0.210

RV ALASKA — CALCOFI CRUISE 7202 — 107040

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
30 10.0N	116 42.0W	2/19/72	1535 GMT					

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	14.85	33.59		24.939	302.5	0.000
10	14.85	33.59		24.939	302.5	0.030
20	14.80	33.58		24.942	302.3	0.061
30	14.35	33.49		24.969	299.7	0.091
50	14.15	33.47		24.996	297.2	0.151
75	13.20	33.40		25.136	283.8	0.224
100	11.80	33.44		25.437	255.2	0.292
125	10.55	33.65		25.826	218.2	0.351
150	9.85	33.88		26.124	189.8	0.403
200	9.10	34.10		26.419	161.9	0.493
250	8.45	34.16		26.568	147.7	0.572
300	8.10	34.20		26.652	139.7	0.647
400	7.30	34.29		26.839	122.0	0.783
500	6.55	34.30		26.950	111.4	0.907

RV ALASKA — CALCOFI CRUISE 7202 — 107050

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
29 50.0N	117 22.0W	2/19/72	2115 GMT					

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	14.65	33.49		24.905	305.8	0.000
10	14.60	33.48		24.908	305.5	0.031
20	14.40	32.49		24.959	300.7	0.061
30	14.25	33.45		24.959	300.6	0.091
50	13.20	33.36		25.105	286.8	0.150
75	12.05	33.35		25.321	266.2	0.220
100	11.20	33.43		25.540	245.4	0.284
125	10.65	33.66		25.816	219.1	0.343
150	10.20	33.85		26.042	197.7	0.395
200	9.35	34.03		26.324	170.9	0.489
250	8.85	34.12		26.474	156.6	0.573
300	8.15	34.19		26.637	141.2	0.650
400	7.25	34.29		26.847	121.3	0.787
500	6.50	34.32		26.973	109.3	0.910

RV ALASKA CALCOFI CRUISE 7202 107060

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
29 30.0N	118 01.0W	2/20/72	0330 GMT					

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	15.30	33.65		24.887	307.5	0.000
10	15.30	33.65		24.887	307.5	0.031
20	15.25	33.65		24.898	306.4	0.062
30	15.05	33.62		24.919	304.5	0.092
50	14.70	33.57		24.956	300.9	0.153
75	14.10	33.47		25.006	296.2	0.228
100	12.20	33.46		25.377	260.9	0.298
125	11.25	33.65		25.701	230.1	0.360
150	10.40	33.73		25.914	209.8	0.416
200	9.15	33.95		26.294	173.7	0.514
250	8.45	34.04		26.474	156.6	0.598
300	7.90	34.11		26.612	143.6	0.676
400	7.05	34.24		26.835	122.4	0.814
500	6.75	34.36		26.971	109.5	0.937

RV ALASKA CALCOFI CRUISE 7202 107080

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
28 51.0N	119 20.0W	2/20/72	2317 GMT					

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	15.55	33.64		24.824	313.5	0.000
10	15.40	33.61		24.835	312.5	0.031
20	15.40	33.62		24.842	311.8	0.063
30	15.40	33.62		24.842	311.8	0.094
50	14.95	33.60		24.925	303.9	0.156
75	12.95	33.38		25.170	280.6	0.229
100	11.55	33.51		25.538	245.6	0.295
125	10.70	33.65		25.800	220.7	0.354
150	10.05	33.87		26.063	193.8	0.407
200	9.25					
250	8.60					
300	8.45					
400	7.00					
500	6.05					

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 110032

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
29 51.0N	115 49.5W	2/ 4/72	2124 GMT	45M	280	8KT	1	280 1 5

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	13.05	33.61		25.328	265.6	0.000
10	13.01	33.59		25.320	266.3	0.027
20	12.88	33.57		25.331	265.3	0.053
30	12.67	33.65		25.434	255.5	0.079

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 110035

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
29 46.0N	116 00.0W	2/ 4/72	1847 GMT	1206M	280	8KT	1	280 1 5

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	13.92	33.66		25.190	278.7	0.000
10	13.81	[illegible].64		25.197	278.0	0.028
20	13.10	33.52		25.249	273.1	0.055
30	12.69	33.50		25.314	266.9	0.083
50	11.97	33.69		25.599	239.8	0.133
75	11.69	33.83		25.760	224.5	0.192
100	11.05	33.96		25.978	203.8	0.246
125	10.48	34.09		26.180	184.5	0.295
150	10.20	34.26		26.361	167.4	0.340
200	9.98	34.39		26.500	154.2	0.422
250	9.43	34.43		26.623	142.5	0.498
300	8.84	34.41		26.702	134.9	0.571
400	8.00	34.42		26.840	121.9	0.705
500	6.82	34.36		26.961	110.4	0.829
600	6.01	34.38		27.084	98.8	0.941
700	5.50	34.41		27.171	90.5	1.044
800	5.01	34.44		27.252	82.8	1.140
1000	4.31	34.48		27.362	72.4	1.314

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 110040

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
29 36.5N	116 19.5W	2/ 4/72	1410 GMT	2321M	350	13KT	1	350 1 6

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	13.93	33.53		25.088	288.4	0.000
10	13.94	33.53		25.086	288.6	0.029
20	13.94	33.53		25.086	288.6	0.058
30	13.92	33.53		25.090	288.2	0.087
50	13.77	33.51		25.105	286.7	0.144
75	12.57	33.51		25.345	263.9	0.214
100	11.02	33.73		25.805	220.2	0.275
125	10.95	33.95		25.988	202.8	0.328
150	10.59	34.09		26.161	186.4	0.378
200	9.97	34.27		26.408	162.9	0.467
250	9.37	34.32		26.547	149.7	0.547
300	8.69	34.29		26.632	141.6	0.623
400	7.74	34.32		26.800	125.7	0.763
500	6.68	34.33		26.957	110.9	0.888
600	5.96	34.37		27.079	99.2	1.001
700	5.37	34.41		27.186	89.0	1.103
800	4.91	34.45		27.272	80.9	1.197
1000	4.15	34.50		27.395	69.3	1.365

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 110040

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
29 36.5N	116 19.5W	2/ 4/72	1559 GMT	2321M	350	13KT	1	350 1 6

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT
2	13.91	33.528	6.08	0.31	2.	0.00	0.1	288.2
12	13.91	33.525	6.09	0.23	3.	0.07	0.1	288.4
32	13.88	33.526	6.10	0.29	2.	0.05	0.1	287.7
57	13.74	33.521	5.84	0.33	3.	0.11	0.3	285.4
72	12.64	33.533	4.81	0.82	9.	0.06	7.5	263.5
87	11.68	33.551	4.33	1.14	12.	0.03	11.2	244.9
102	10.94	33.618	4.04	1.31	15.	0.02	14.9	227.1
132	10.69	33.915	2.70	1.85	24.	0.08	21.2	204.3
156	10.60	34.101	2.04	2.09	30.	0.04	25.2	185.7
181	10.06	34.119	2.16	2.03	33.	0.02	26.1	175.5
214	9.63	34.209	1.80	2.34	37.	0.07	29.0	162.0
278	8.92	34.283	1.23	2.50	44.	0.02	29.7	145.6
374	7.83	34.307	0.80	2.85	56.	0.00	33.5	127.9
470	6.95	34.321	0.51	3.03	67.	0.01	37.8	115.0
597	5.89	34.371	0.32	3.18	82.	0.03	42.4	98.0
746	5.11	34.413	0.33	3.26	96.	0.01	43.4	85.9
891	4.45	34.454	0.47	3.34	112.	0.06	44.3	75.8
1096	3.84	34.504	0.69	3.29	126.	0.00	42.8	65.9

Z	T	S	O2	SIGT	DT	DD
0	13.91	33.528	6.08	25.090	288.2	0.000
10	13.91	33.527	6.09	25.088	288.4	0.029
20	13.90	33.527	6.09	25.089	288.3	0.058
30	13.89	33.528	6.10	25.094	287.9	0.087
50	13.78	33.524	5.91	25.113	286.0	0.144
75	12.43	33.536	4.68	25.390	259.6	0.213
100	11.02	33.606	4.08	25.709	229.3	0.274
125	10.90	33.857	3.03	25.923	208.9	0.330
150	10.69	34.065	2.15	26.123	190.0	0.380
200	9.79	34.170	1.99	26.359	167.5	0.472
250	9.22	34.263	1.46	26.526	151.7	0.554
300	8.66	34.294	1.10	26.639	140.9	0.630
400	7.58	34.311	0.71	26.816	124.2	0.768
500	6.68	34.332	0.45	26.958	110.7	0.893
600	5.87	34.373	0.32	27.095	97.7	1.005
700	5.32	34.402	0.33	27.186	89.1	1.106
800	4.85	34.429	0.37	27.262	81.9	1.200
1000	4.08	34.483	0.58	27.388	69.9	1.370

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 110050

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
29 17.5N	116 59.0W	2/ 4/72	0815 GMT	3357M	360	10KT		

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	13.77	33.41		25.028	294.1	0.000
10	13.77	33.41		25.028	294.1	0.029
20	13.76	33.41		25.030	293.9	0.059
30	13.69	33.41		25.045	292.5	0.088
50	13.57	33.55		25.177	279.9	0.146
75	11.88	33.53		25.492	249.9	0.212
100	11.34	33.79		25.793	221.3	0.272
125	10.56	33.96		26.065	195.5	0.324
150	10.35	34.13		26.234	179.4	0.372
200	9.99	34.33		26.451	158.8	0.458
250	9.29	34.35		26.583	146.2	0.537
300	8.58	34.35		26.696	135.5	0.610
400	7.50	34.33		26.842	121.7	0.745
500	6.54	34.35		26.991	107.6	0.866
600	5.79	34.38		27.111	96.2	0.976
700	5.32	34.41		27.192	88.5	1.076
800	4.87	34.44		27.269	81.3	1.170
1000	4.17	34.49		27.385	70.2	1.339

RV DAVID STARR JORDAN — CALCOFI CRUISE 7202 — 110060

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
23 56.5N	117 38.5W	2/ 3/72	2230 GMT	3357M	240	4KT	2	100 2 6

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	14.21	33.44		24.960	300.6	0.000
10	14.14	33.43		24.967	299.9	0.030
20	14.10	33.44		24.983	298.4	0.060
30	14.09	33.44		24.985	298.2	0.090
50	13.96	33.42		24.997	297.1	0.150
75	13.89	33.41		25.003	296.4	0.224
100	12.50	33.37		25.250	272.9	0.296
125	11.22	33.51		25.598	239.9	0.361
150	10.42	33.72		25.903	210.9	0.418
200	9.57	34.08		26.327	170.6	0.515
250	9.29	34.24		26.497	154.4	0.598
300	8.45	34.26		26.646	140.3	0.675
400	7.34	34.31		26.850	121.0	0.811
500	6.69	34.36		26.979	108.7	0.933
600	6.01	34.38		27.084	98.8	1.045
700	5.39	34.40		27.176	90.0	1.147
800	4.95	34.43		27.251	82.9	1.243
1000	4.17	34.49		27.385	70.2	1.414

RV DAVID STARR JORDAN — CALCOFI CRUISE 7202 — 110060

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
23 56.5N	117 38.5W	2/ 3/72	2340 GMT	3357M	240	4KT	2	100 2 6

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT
0	14.30	33.453		0.40	2.	0.05	0.0	301.4
10	14.13	33.492 U	5.96	0.36	3.	0.05		
30	14.04	33.466	5.94	0.36	3.	0.05		295.3
56	13.94	33.449	5.96	0.36	2.	0.05	0.2	294.6
72	13.91	33.424	6.15	0.37	2.	0.12	0.3	295.8
86	13.02	33.327	5.82	0.48	3.	0.24	1.4	285.8
101	12.61	33.335	5.79	0.57	4.	0.13	3.2	277.5
131	11.42	33.559	4.52	1.13	11.	0.11	12.6	239.7
157	10.46	33.800	3.67	1.51	19.	0.11	17.4	205.6
182	9.85	33.960	3.16	1.78	25.	0.14	22.8	183.9
216	9.46	34.103	2.51	2.12	33.	0.12	23.3	167.2
279	8.72	34.225	1.65	2.49	43.	0.09	26.0	146.9
378	7.61	34.305	0.74	2.89	59.	0.06	33.5	125.0
475	6.84	34.355	0.50	3.11	71.	0.15	32.8	111.0
605	5.98	34.388	0.26	3.30	83.	0.13	38.2	97.8
754	5.07	34.427	0.36	3.33	100.	0.12	41.8	84.4
903	4.37	34.466	0.47	3.19	115.	0.15	41.4	74.0
1114	3.78	34.513	0.70		129.	0.09	35.7U	64.7

Z	T	S	O2	SIGT	DT	DD
0	14.30	33.453		24.951	301.4	0.000
10	14.13	33.445	5.96	24.979	298.7	0.030
20	14.06	33.455	5.95	25.001	296.7	0.060
30	14.04	33.466	5.94	25.016	295.3	0.090
50	13.96	33.454	5.96	25.021	294.7	0.149
75	13.73	33.403	6.09	25.029	294.0	0.223
100	12.63	33.334	5.79	25.195	278.2	0.295
125	11.67	33.502	4.83	25.508	248.5	0.361
150	10.70	33.738	3.87	25.867	214.3	0.420
200	9.61	34.046	2.60	26.292	173.9	0.519
250	9.06	34.165	2.00	26.491	155.0	0.603
300	8.47	34.249	1.41	26.634	141.4	0.680
400	7.42	34.319	0.66	26.845	121.4	0.817
500	6.66	34.364	0.44	26.984	108.2	0.939
600	6.01	34.388	0.27	27.089	98.3	1.050
700	5.38	34.413	0.32	27.187	89.0	1.152
800	4.83	34.440	0.39	27.273	80.9	1.245
1000	4.04	34.490	0.56	27.399	69.0	1.413

RV DAVID STARR JORDAN — CALCOFI CRUISE 7202 — 110070

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
23 36.5N	118 18.0W	2/ 3/72	1725 GMT	3545M	240	10KT	1	060 2 5

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	15.16	33.61		24.887	307.5	0.000
10	15.15	33.60		24.882	308.0	0.031
20	14.31	33.49		24.977	298.9	0.061
30	14.25	33.50		24.998	297.0	0.091
50	14.04	33.47		25.019	295.0	0.150
75	13.88	33.47		25.052	291.8	0.224
100	12.56	33.33		25.208	277.0	0.296
125	10.91	33.56		25.693	230.9	0.360
150	10.36	33.81		25.983	203.3	0.415
200	9.51	34.12		26.368	166.7	0.509
250	8.80	34.23		26.568	147.7	0.590
300	8.43	34.28		26.665	138.5	0.664
400	7.48	34.33		26.845	121.4	0.800
500	6.54	34.35		26.991	107.6	0.922
600	5.91	34.39		27.104	96.8	1.031
700	5.42	34.42		27.188	88.9	1.132
800	4.93	34.43		27.254	82.7	1.227
1000	4.23	34.49		27.379	70.8	1.399

RV DAVID STARR JORDAN — CALCOFI CRUISE 7202 — 110080

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
28 16.0N	118 56.5W	2/ 3/72	1124 GMT	3737M	080	4KT		

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
									0	15.53	33.67		24.852	310.9	0.000
									10	15.53	33.67		24.852	310.9	0.031
									20	15.52	33.67		24.854	310.7	0.062
									30	15.52	33.67		24.854	310.7	0.093
									50	15.35	33.64		24.869	309.3	0.156
									75	12.91	33.41		25.201	277.6	0.229
									100	11.24	33.45		25.548	244.6	0.295
									125	10.43	33.69		25.878	213.3	0.353
									150	9.99	33.85		26.077	194.3	0.405
									200	9.27	34.08		26.376	165.9	0.496
									250	8.81	34.22		26.559	148.6	0.577
									300	8.33	34.26		26.664	138.5	0.652
									400	7.12	34.26		26.841	121.8	0.788
									500	6.32	34.36		27.028	104.1	0.907
									600	5.73	34.39		27.127	94.7	1.014
									700	5.23	34.43		27.219	86.0	1.112
									800	4.67	34.45		27.299	78.4	1.203
									1000	4.06	34.50		27.405	68.4	1.367

RV DAVID STARR JORDAN — CALCOFI CRUISE 7202 — 110080

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
28 16.0N	118 56.5W	2/ 3/72	1259 GMT	3737M	080	4KT		

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
1	15.52	33.666	5.74					310.9	0	15.52	33.666	5.74	24.851	310.9	0.000
11	15.50	33.666	5.84					310.5	10	15.50	33.668	5.83	24.855	310.6	0.031
33	15.49	33.667	5.75					310.2	20	15.50	33.668	5.82	24.857	310.4	0.062
57	15.01	33.594	5.83					305.5	30	15.49	33.669	5.77	24.858	310.3	0.093
72	13.31	33.432	5.54					283.6	50	15.15	33.617	5.81	24.893	306.9	0.155
87	12.25	33.406	5.32					265.7	75	13.06	33.419	5.50	25.177	279.9	0.229
102	11.46	33.488	4.96					245.6	100	11.55	33.476	5.01	25.509	248.3	0.296
132	10.40	33.693	4.13					212.6	125	10.60	33.643	4.33	25.811	219.7	0.355
157	9.80	33.888	3.42					188.5	150	9.95	33.837	3.61	26.073	194.7	0.407
182	9.34	34.025	2.90					171.1	200	9.14	34.058	2.73	26.379	165.7	0.499
217	9.00	34.069	2.60					162.6	250	8.73	34.151	2.03	26.516	152.6	0.581
281	8.48	34.226	1.48					143.3	300	8.27	34.244	1.29	26.660	139.0	0.656
378	7.39	34.271	0.83					124.6	400	7.19	34.287	0.72	26.852	120.8	0.792
476	6.59	34.338	0.44					109.1	500	6.41	34.349	0.42	27.006	106.1	0.912
606	5.70	34.381	0.32					95.0	600	5.74	34.380	0.33	27.118	95.6	1.020
756	4.89	34.428	0.41					82.4	700	5.16	34.412	0.36	27.212	86.7	1.119
902	4.33	34.465	0.52					73.7	800	4.70	34.441	0.44	27.287	79.5	1.211
1112	3.76	34.515	0.73					64.3	1000	4.03	34.490	0.61	27.399	68.9	1.377

RV ALASKA — CALCOFI CRUISE 7202 — 113035

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
29 10.0N	115 42.0W	2/22/72	1320 GMT					

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
									0	13.70	33.45		25.073	289.8	0.000
									10	13.70	33.45		25.073	289.8	0.029
									20	13.70	33.45		25.073	289.8	0.058
									30	13.65	33.45		25.084	288.8	0.087
									50	13.00	33.41		25.183	279.3	0.144
									75	11.60	33.60		25.598	239.8	0.209
									100	11.05	33.78		25.838	217.0	0.267
									125	10.70	33.93		26.017	200.0	0.320
									150	10.40	34.11		26.209	181.7	0.368
									200	10.10	34.32		26.425	161.3	0.456
									250	9.70	34.36		26.523	151.9	0.536
									300	8.80	34.30		26.623	142.5	0.613
									400	8.00	34.36		26.793	126.4	0.754
									500	6.95	34.34		26.928	113.6	0.881

RV ALASKA — CALCOFI CRUISE 7202 — 113040

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
29 02.0N	115 57.0W	2/22/72	0925 GMT					

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
									0	14.45	33.63		25.056	291.5	0.000
									10	14.40	33.64		25.074	289.7	0.029
									20	14.35	33.63		25.077	289.5	0.058
									30	14.00	33.59		25.119	285.4	0.087
									50	13.55	33.57		25.197	278.1	0.143
									75	11.95	33.61		25.541	245.3	0.209
									100	10.95	33.77		25.848	216.1	0.267
									125	10.55	34.01		26.106	191.6	0.319
									150	10.45	34.15		26.232	179.6	0.366
									200	10.35	34.36		26.413	162.4	0.454
									250	9.85	34.44		26.561	148.4	0.534
									300	9.40	34.44		26.636	141.3	0.609
									400	8.30	34.40		26.779	127.7	0.750
									500	7.25	34.39		26.925	113.8	0.879

RV ALASKA CALCOFI CRUISE 7202 113045

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
28 49.0N	116 17.0W	2/22/72	0505 GMT					

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	14.55	33.47		24.911	305.2	0.000
10	14.55	33.47		24.911	305.2	0.031
20	14.55	33.47		24.911	305.2	0.061
30	14.45	33.47		24.932	303.2	0.092
50	14.15	33.48		25.003	296.4	0.152
75	12.80	33.37		25.192	278.5	0.224
100	11.90	33.55		25.504	248.8	0.290
125	10.70	33.77		25.893	211.9	0.349
150	10.20	33.90		26.081	194.0	0.400
200	9.65	34.07		26.306	172.6	0.494
250	9.45	34.30		26.518	152.4	0.577
300	9.05	34.37		26.638	141.1	0.653
400	7.80	34.29		26.767	128.8	0.795
500	6.80	34.30		26.917	114.6	0.923

RV ALASKA CALCOFI CRUISE 7202 113050

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
28 41.5N	116 36.0W	2/22/72	0200 GMT					

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	15.30	33.67		24.903	306.0	0.000
10	15.30	33.68		24.910	305.3	0.031
20	15.30	33.68		24.910	305.3	0.061
30	15.25	33.67		24.914	305.0	0.092
50	14.70	33.62		24.995	297.3	0.152
75	14.05	33.59		25.109	286.4	0.226
100	11.75	33.59		25.563	243.2	0.292
125	10.90	33.95		25.997	201.9	0.349
150	10.70	34.07		26.126	189.7	0.398
200	10.45	34.25		26.310	172.2	0.491
250	10.00	34.35		26.465	157.5	0.576
300	9.40	34.40		26.604	144.2	0.654
400	8.50	34.37		26.724	132.9	0.799
500	7.40	34.38		26.896	116.6	0.932

RV ALASKA CALCOFI CRUISE 7202 113060

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
28 18.0N	117 15.0W	2/21/72	1936 GMT					

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	15.15	33.67		24.935	302.9	0.000
10	15.10	33.67		24.946	301.8	0.030
20	15.05	33.67		24.957	300.8	0.060
30	14.20	33.50		25.008	296.0	0.090
50	13.75	33.50		25.102	287.1	0.149
75	12.70	33.54		25.343	264.1	0.218
100	11.50	33.75		25.733	227.0	0.280
125	10.65	33.94		26.034	198.5	0.334
150	10.10	34.09		26.246	178.3	0.382
200	9.95	34.28		26.419	161.8	0.469
250	9.50	34.34		26.541	150.3	0.549
300	8.85	34.35		26.654	139.5	0.624
400	7.70	34.35		26.829	122.9	0.762
500	6.85	34.35		26.949	111.5	0.886

RV ALASKA CALCOFI CRUISE 7202 113070

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
28 02.0N	117 55.0W	2/21/72	1400 GMT					

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	15.60	33.59		24.775	318.2	0.000
10	15.60	33.60		24.782	317.5	0.032
20	15.60	33.60		24.782	317.5	0.064
30	14.90	33.46		24.829	313.1	0.095
50	14.30	33.45		24.949	301.6	0.157
75	14.10	33.43		24.975	299.1	0.232
100	13.40	33.37		25.073	289.9	0.307
125	12.20	33.35		25.293	268.9	0.377
150	11.20	33.65		25.710	229.2	0.440
200	9.95	33.98		26.185	184.0	0.545
250	9.30	34.15		26.426	161.2	0.634
300	8.70	34.18		26.545	149.9	0.714
400	7.85	34.25		26.729	132.5	0.862
500	6.75	34.28		26.908	115.5	0.993

RV ALASKA — CALCOFI CRUISE 7202 — 113080

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
27 40.0N	118 32.5W	2/21/72	0805 GMT					

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	16.05	33.67		24.735	322.0	0.000
10	16.05	33.67		24.735	322.0	0.032
20	16.05	33.67		24.735	322.0	0.064
30	16.05	33.68		24.743	321.3	0.097
50	15.75	33.63		24.772	318.5	0.161
75	14.20	33.41		24.939	302.6	0.239
100	12.45	33.43		25.306	267.6	0.311
125	11.35	33.65		25.683	231.8	0.374
150	10.70	33.90		25.994	202.3	0.429
200	10.25	34.20		26.305	172.6	0.525
250	9.85	34.35		26.490	155.1	0.609
300	9.30	34.36		26.590	145.7	0.687
400	8.00	34.31		26.753	130.1	0.831
500	6.85	34.30		26.910	115.3	0.961

RV ALASKA — CALCOFI CRUISE 7202 — 117025

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
28 58.0N	114 37.0W	2/22/72	2333 GMT					

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	15.55	33.70		24.870	309.1	0.000
10	14.50	33.70		25.099	287.4	0.030
20	14.00	33.68		25.189	278.8	0.058
30	13.95	33.70		25.214	276.4	0.086
50	13.00	33.70		25.407	258.0	0.140

RV ALASKA — CALCOFI CRUISE 7202 — 117026

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
28 56.0N	114 41.5W	2/23/72	0045 GMT					

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	15.25	33.66		24.906	305.7	0.000
10	15.00	33.63		24.937	302.7	0.030
20	14.70	33.64		25.010	295.8	0.060
30	14.25	33.59		25.067	290.4	0.090
50	12.45	33.59		25.430	255.8	0.145

RV ALASKA — CALCOFI CRUISE 7202 — 117040

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
28 28.0N	115 35.5W	2/24/72	2130 GMT					

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	14.30	33.56		25.033	293.6	0.000
10	14.20	33.56		25.054	291.6	0.029
20	14.15	33.56		25.065	290.6	0.058
30	14.10	33.55		25.068	290.3	0.088
50	14.00	33.56		25.096	287.6	0.146
75	11.85	33.65		25.591	240.6	0.212
100	10.80	33.83		25.922	209.1	0.269
125	10.70	33.97		26.048	197.1	0.320
150	10.45	34.12		26.209	181.8	0.368
200	10.20	34.30		26.392	164.4	0.457
250	9.80	34.34		26.491	155.0	0.539
300	9.10	34.31		26.583	146.3	0.617
400	8.05	34.35		26.777	127.8	0.760
500	6.95	34.30		26.896	116.6	0.890

RV ALASKA — CALCOFI CRUISE 7202 — 117045

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
28 18.0N	115 56.0W	2/25/72	0025 GMT					

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	14.40	33.61		25.051	291.9	0.000
10	14.40	33.61		25.051	291.9	0.029
20	14.30	33.61		25.072	289.9	0.058
30	14.25	33.61		25.082	288.9	0.087
50	13.10	33.53		25.256	272.4	0.144
75	11.80	33.70		25.639	236.0	0.208
100	11.10	33.84		25.876	213.5	0.264
125	10.65	34.03		26.104	191.8	0.316
150	10.15	34.12		26.260	176.9	0.362
200	9.55	34.22		26.439	159.9	0.448
250	9.30	34.32		26.558	148.6	0.528
300	8.70	34.31		26.646	140.3	0.603
400	8.10	34.40		26.809	124.8	0.742
500	7.05	34.36		26.929	113.4	0.868

RV ALASKA CALCOFI CRUISE 7202 117050

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
28 08.0N	116 15.0W	2/25/72	0450 GMT					

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	14.50	33.61		25.030	293.9	0.000
10	14.40	33.62		25.058	291.2	0.029
20	14.35	33.62		25.069	290.2	0.058
30	14.30	33.63		25.087	288.5	0.087
50	13.25	33.59		25.273	270.8	0.144
75	11.30	33.65		25.692	230.9	0.207
100	10.50	33.82		25.967	204.8	0.262
125	10.20	34.02		26.174	185.1	0.311
150	10.05	34.16		26.309	172.3	0.356
200	9.60	34.25		26.454	158.5	0.441
250	9.05	34.30		26.583	146.3	0.519
300	8.45	34.31		26.685	136.6	0.593
400	7.50	34.34		26.850	120.9	0.727
500	6.55	34.33		26.974	109.2	0.849

RV ALASKA CALCOFI CRUISE 7202 117060

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
27 48.0N	116 53.0W	2/25/72	1030 GMT					

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	15.80	33.75		24.853	310.8	0.000
10	15.80	33.77		24.868	309.3	0.031
20	15.80	33.78		24.876	308.6	0.062
30	15.80	33.78		24.876	308.6	0.093
50	15.60	33.81		24.943	302.1	0.154
75	14.20	33.57		25.062	290.8	0.229
100	12.40	33.45		25.331	265.2	0.299
125	10.80	33.75		25.859	215.0	0.359
150	10.25	33.92		26.088	193.3	0.411
200	9.80	34.11		26.312	172.0	0.504
250	9.40	34.27		26.503	153.9	0.588
300	8.90	34.31		26.615	143.3	0.665
400	7.85	34.32		26.784	127.3	0.807
500	6.75	34.32		26.939	112.5	0.934

RV ALASKA CALCOFI CRUISE 7202 117070

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
27 24.5N	117 31.5W	2/25/72	1620 GMT					

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	15.20	33.66		24.917	304.7	0.000
10	15.20	33.66		24.917	304.7	0.030
20	15.15	33.66		24.928	303.6	0.061
30	15.15	33.66		24.928	303.6	0.091
50	13.95	33.51		25.068	290.3	0.151
75	13.25	33.44		25.157	281.8	0.223
100	12.25	33.51		25.407	258.1	0.291
125	11.60	33.61		25.606	239.1	0.354
150	10.40	33.73		25.914	209.8	0.411
200	9.25	34.07		26.371	166.4	0.506
250	8.75	34.21		26.560	148.4	0.587
300	8.35	34.23		26.638	141.1	0.662
400	7.20	34.25		26.822	123.6	0.800
500	6.55	34.30		26.950	111.4	0.925

RV ALASKA CALCOFI CRUISE 7202 117080

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
27 08.0N	118 09.5W	2/25/72	2215 GMT					

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	15.05	33.55		24.865	309.6	0.000
10	15.00	33.55		24.876	308.6	0.031
20	14.80	33.52		24.896	306.6	0.062
30	14.80	33.52		24.896	306.6	0.092
50	14.80	33.52		24.896	306.6	0.154
75	14.00	33.47		25.027	294.2	0.230
100	12.50	33.40		25.274	270.7	0.301
125	11.60	33.55		25.560	243.5	0.366
150	10.75	33.79		25.899	211.2	0.423
200	10.15	34.10		26.245	178.4	0.523
250	10.15	34.39		26.470	157.0	0.609
300	9.75	34.42		26.562	148.3	0.688
400	8.15	34.32		26.739	131.5	0.835
500	7.10	34.33		26.899	116.3	0.966

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 119033

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
28 19.0N	114 53.0W	2/ 5/72	1402 GMT	110M	340	10KT		

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	14.07	33.68		25.174	280.2	0.000
10	14.07	33.68		25.174	280.2	0.028
20	14.07	33.68		25.174	280.2	0.056
30	14.05	33.68		25.178	279.8	0.084
50	13.99	33.69		25.198	277.9	0.140
75	12.36	33.67		25.509	248.3	0.206

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 120030

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
28 13.0N	114 34.0W	2/ 5/72	1137 GMT	93M	220	8KT		

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	13.99	33.71		25.214	276.4	0.000
10	13.99	33.71		25.214	276.4	0.028
20	13.98	33.71		25.216	276.2	0.055
30	13.97	33.71		25.218	276.0	0.083
50	13.93	33.71		25.226	275.2	0.138
75	12.55	33.78		25.558	243.7	0.204

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 120035

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
28 03.0N	114 54.0W	2/ 5/72	1620 GMT	80M	140	12KT	1	140 1 5

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	13.99	33.67		25.183	279.3	0.000
10	13.98	33.67		25.185	279.1	0.028
20	13.97	33.67		25.187	278.9	0.056
30	13.97	33.67		25.187	278.9	0.084
50	13.85	33.67		25.212	276.6	0.140
75	11.93	33.80		25.692	231.0	0.203

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 120045

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
27 43.0N	115 33.0W	2/ 5/72	2111 GMT	2227M	350	12KT	2	350 2 4

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	15.17	33.63		24.900	306.2	0.000
10	15.17	33.63		24.900	306.2	0.031
20	14.92	33.60		24.932	303.3	0.061
30	14.90	33.60		24.936	302.8	0.092
50	14.46	33.53		24.977	299.0	0.152
75	13.20	33.44		25.167	280.9	0.225
100	11.42	33.60		25.631	236.7	0.290
125	11.11	34.00		25.998	201.8	0.346
150	10.36	34.03		26.154	187.0	0.395
200	10.00	34.30		26.426	161.2	0.484
250	9.71	34.39		26.545	149.9	0.564
300	9.37	34.45		26.648	140.1	0.639
400	7.97	34.41		26.836	122.2	0.777
500	7.14	34.40		26.948	111.6	0.901
600	6.33	34.43		27.082	99.0	1.015
700	5.72	34.44		27.167	90.8	1.118
800	5.22	34.45		27.236	84.4	1.215
1000	4.34	34.48		27.359	72.7	1.392

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 120045

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
27 43.0N	115 33.0W	2/ 5/72	2218 GMT	2227M	350	12KT	2	350 1 4

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT
2	15.09	33.644		0.26	3.	0.02	0.2	303.6
12	14.96	33.640	5.81	0.25	2.	0.00	0.4	301.1
32	14.90	33.640	5.83	0.24	3.	0.01	0.3	299.9
57	14.34	33.566	5.75	0.32	3.	0.09	0.5	293.9
71	13.71	33.495	5.20	0.46	4.	0.09	2.7	286.7
86	12.30	33.497	4.76	0.88	9.	0.03	7.9	259.9
101	11.43	33.629	4.14	1.19		0.07	13.9	234.7
131	10.97	33.982	2.74	1.76		0.00	21.6	200.8
156	10.38	34.061	2.43	2.07	28.	0.11	24.2	185.0
181	10.12	34.208	1.91	2.27	31.	0.01	27.4	169.9
215	9.89	34.332	1.39	2.41	38.	0.11	27.7	157.0
279	9.57	34.447	0.71	2.77	44.	0.00	27.7	143.4
378	8.37	34.443	0.36	2.94	55.	0.00	33.3	125.5
475	7.31	34.423	0.29	3.08	66.	0.03	36.1	112.2
607	6.20	34.443	0.30	3.32	81.	0.00	40.4	96.4
758	5.35	34.456	0.29	3.32	94.	0.05	43.7	85.4
904	4.72	34.477	0.38	3.42	106.	0.04	42.9	76.9
1109	3.98	34.514	0.58	3.32		0.00	40.3	66.5

Z	T	S	O2	SIGT	DT	DD
0	15.09	33.644		24.929	303.6	0.000
10	14.96	33.642		24.950	301.5	0.030
20	14.94	33.644	5.82	24.960	300.6	0.060
30	14.91	33.643	5.83	24.966	300.0	0.091
50	14.56	33.596	5.77	25.005	296.3	0.150
75	13.34	33.486	5.08	25.172	280.4	0.223
100	11.47	33.619	4.18	25.636	236.3	0.288
125	11.00	33.920	2.98	25.954	206.0	0.344
150	10.52	34.049	2.48	26.141	188.3	0.394
200	9.98	34.286	1.60	26.418	161.9	0.483
250	9.73	34.411	0.97	26.558	148.6	0.563
300	9.35	34.456	0.59	26.656	139.3	0.638
400	8.12	34.438	0.34	26.836	122.3	0.776
500	7.07	34.426	0.29	26.977	108.9	0.899
600	6.25	34.442	0.30	27.101	97.1	1.010
700	5.64	34.452	0.29	27.187	89.0	1.111
800	5.15	34.462	0.31	27.252	82.8	1.206
1000	4.35	34.494	0.46	27.368	71.8	1.380

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 120050

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
27 32.5N	115 52.5W	2/ 6/72	0054 GMT	3737M	350	8KT	1	350 1 6

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
									0	15.62	33.66		24.824	313.5	0.000
									10	15.49	33.66		24.853	310.8	0.031
									20	15.39	33.66		24.875	308.6	0.062
									30	15.38	33.66		24.877	308.4	0.093
									50	15.38	33.66		24.877	308.4	0.155
									75	15.07	33.61		24.907	305.6	0.232
									100	12.13	33.50		25.422	256.6	0.303
									125	11.18	33.62		25.691	231.1	0.365
									150	10.32	33.85		26.021	199.7	0.419
									200	9.63	34.12		26.348	168.6	0.513
									250	9.19	34.22		26.498	154.3	0.596
									300	8.63	34.27		26.626	142.2	0.673
									400	7.63	34.32		26.816	124.2	0.812
									500	6.74	34.36		26.972	109.4	0.936
									600	5.93	34.38		27.094	97.8	1.047
									700	5.42	34.40		27.172	90.4	1.150
									800	4.88	34.43		27.259	82.1	1.245
									1000	4.20	34.48		27.374	71.3	1.416

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 120060

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
27 13.0N	116 30.5W	2/ 6/72	0520 GMT	3737M	320	6KT		

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
									0	15.86	33.73		24.824	313.5	0.000
									10	15.74	33.72		24.843	311.7	0.031
									20	15.62	33.72		24.870	309.1	0.062
									30	15.60	33.72		24.875	308.7	0.093
									50	15.14	33.62		24.899	306.3	0.155
									75	12.65	33.52		25.337	264.7	0.227
									100	11.57	33.54		25.557	243.7	0.291
									125	10.78	33.72		25.840	216.9	0.349
									150	10.34	33.91		26.064	195.5	0.401
									200	9.72	34.18		26.380	165.6	0.494
									250	9.34	34.32		26.552	149.2	0.574
									300	8.65	34.33		26.670	138.0	0.649
									400	7.42	34.31		26.838	122.1	0.785
									500	6.65	34.34		26.968	109.7	0.908
									600	5.88	34.37		27.092	98.0	1.019
									700	5.24	34.41		27.202	87.6	1.120
									800	4.73	34.44		27.284	79.8	1.212
									1000	4.05	34.49		27.398	69.0	1.379

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 120060

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
27 13.0N	116 30.5W	2/ 6/72	0632 GMT	3737M	320	6KT		

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
0	15.71	33.746	5.96					309.1	0	15.71	33.746	5.96	24.870	309.1	0.000
10	15.70	33.744	5.76					309.1	10	15.70	33.744	5.76	24.871	309.1	0.031
30	15.56	33.745	5.74					306.0	20	15.64	33.748	5.75	24.885	307.7	0.062
55	15.28	33.695	5.83					303.8	30	15.56	33.745	5.74	24.903	306.0	0.093
70	13.82	33.537	5.41					285.7	50	15.34	33.707	5.81	24.921	304.2	0.154
85	12.83	33.519	4.82					268.1	75	13.46	33.523	5.20	25.177	279.9	0.227
99	11.97	33.536	4.64					251.1	100	11.92	33.543	4.61	25.494	249.8	0.294
129	10.72	33.749	3.70					213.7	125	10.85	33.716	3.84	25.824	218.4	0.353
154	10.12	33.915	3.23					191.6	150	10.18	33.889	3.31	26.074	194.6	0.406
178	10.23	34.123	2.26					178.0	200	9.83	34.163	2.13	26.347	168.7	0.498
212	9.56	34.161	2.06					164.4	250	9.26	34.254	1.46	26.513	152.9	0.581
275	9.14	34.313	1.05					146.7	300	8.84	34.333	0.95	26.641	140.7	0.657
372	7.89	34.339	0.67					126.4	400	7.57	34.341	0.59	26.840	121.9	0.794
468	6.88	34.342	0.44					112.5	500	6.62	34.348	0.38	26.978	108.8	0.917
601	5.93	34.373	0.27					98.4	600	5.94	34.373	0.27	27.087	98.5	1.028
745	5.02	34.435	0.44					83.3	700	5.28	34.416	0.37	27.201	87.7	1.129
890	4.36	34.471	0.54					73.6	800	4.74	34.451	0.48	27.291	79.1	1.221
1098	3.75	34.517	0.80					64.1	1000	3.99	34.497	0.66	27.410	67.9	1.386

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 120070

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
26 53.0N	117 09.0W	2/ 6/72	1325 GMT	4116M	360	7KT		

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	15.43	33.59		24.813	314.6	0.000
10	15.42	33.60		24.822	313.7	0.031
20	15.33	33.60		24.842	311.8	0.063
30	15.13	33.59		24.879	308.3	0.094
50	14.60	33.50		24.924	304.0	0.155
75	14.32	33.47		24.960	300.6	0.231
100	12.80	33.39		25.208	277.0	0.304
125	11.18	33.61		25.683	231.8	0.368
150	10.41	33.94		26.076	194.5	0.422
200	9.31	34.06		26.354	168.0	0.515
250	8.89	34.21		26.538	150.5	0.597
300	8.54	34.29		26.656	139.4	0.672
400	7.47	34.31		26.831	122.8	0.809
500	6.68	34.35		26.972	109.4	0.932
600	5.68	34.36		27.084	98.7	1.043
700	5.30	34.41		27.195	88.3	1.145
800	4.89	34.44		27.266	81.5	1.239
1000	4.10	34.49		27.392	69.5	1.408

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 120080

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
26 32.5N	117 49.0W	2/ 6/72	1813 GMT	3926M	030	11KT	1	030 2 6

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	16.17	33.81		24.815	314.4	0.000
10	15.90	33.77		24.846	311.5	0.031
20	15.35	33.65		24.876	308.5	0.062
30	14.69	33.55		24.943	302.2	0.093
50	14.39	33.49		24.961	300.5	0.153
75	13.87	33.47		25.054	291.6	0.228
100	12.39	33.37		25.272	270.9	0.299
125	10.96	33.56		25.684	231.7	0.362
150	10.33	33.89		26.050	196.9	0.417
200	10.37	34.30		26.362	167.2	0.509
250	9.83	34.36		26.502	154.0	0.592
300	8.99	34.37		26.647	140.2	0.668
400	7.88	34.37		26.818	124.0	0.807
500	7.16	34.41		26.953	111.1	0.932
600	6.08	34.37		27.067	100.4	1.046
700	5.40	34.41		27.183	89.4	1.149
800	4.99	34.47		27.278	80.3	1.242
1000	4.29	34.51		27.388	69.9	1.412

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 120080

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
26 32.5N	117 49.0W	2/ 6/72	1933 GMT	3926M	030	11KT	1	030 2 6

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT
0	15.54	33.702	5.84					308.7
10	15.46	33.689	5.92					308.0
30	14.45	33.537	6.09					298.3
55	14.30	33.572	5.85					292.7
70	14.18	33.561	5.36					291.1
85	13.04	33.437	4.90					278.1
100	12.10	33.475	4.09					257.9
130	10.88	33.684	3.49					221.2
154	10.35	33.882	2.52					197.8
179	10.20	34.058	1.39					182.3
214	10.36	34.317	0.97					165.8
277	9.47	34.378	0.51					147.0
375	8.16	34.387	0.24					126.7
472	7.50	34.437	0.26					113.7
603	6.02	34.389	0.43					98.2
752	5.19	34.424	0.65					86.0
898	4.64	34.485	0.47					75.4
1104	3.93	34.528	0.65					65.0

Z	T	S	O2	SIGT	DT	DD
0	15.54	33.702	5.84	24.874	308.7	0.000
10	15.46	33.689	5.92	24.882	308.0	0.031
20	14.98	33.614	6.02	24.929	303.5	0.061
30	14.45	33.537	6.09	24.984	298.3	0.092
50	14.33	33.573	5.90	25.036	293.4	0.151
75	13.85	33.518	5.22	25.094	287.8	0.224
100	12.10	33.475	4.09	25.408	257.9	0.293
125	11.03	33.644	3.57	25.734	226.9	0.354
150	10.41	33.851	2.70	26.005	201.2	0.408
200	10.30	34.223	1.05	26.314	171.8	0.503
250	9.94	34.386	0.67	26.503	153.9	0.587
300	9.13	34.383	0.41	26.634	141.4	0.664
400	7.98	34.403	0.25	26.829	122.9	0.803
500	7.18	34.428	0.29	26.964	110.1	0.927
600	6.05	34.391	0.43	27.086	98.6	1.039
700	5.41	34.407	0.59	27.178	89.8	1.141
800	4.99	34.445	0.60	27.258	82.3	1.236
1000	4.28	34.513	0.56	27.392	69.6	1.407

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 123037

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
27 24.0N	114 40.0W	2/ 7/72	1703 GMT	69M	330	10KT	1	310 5 5

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	15.09	33.67		24.949	301.6	0.000
10	15.05	33.67		24.957	300.8	0.030
20	13.92	33.54		25.097	287.5	0.060
30	13.03	33.55		25.286	269.6	0.088

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 123050

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
26 58.0N	115 30.0W	2/ 7/72	0928 GMT	3357M	350	20KT		

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	15.23	33.64		24.895	306.8	0.000
10	15.23	33.64		24.895	306.8	0.031
20	15.23	33.64		24.895	306.8	0.061
30	15.23	33.64		24.895	306.8	0.092
50	14.93	33.62		24.945	302.0	0.153
75	14.39	33.61		25.053	291.7	0.228
100	11.90	33.51		25.473	251.8	0.296
125	10.98	33.76		25.835	217.3	0.356
150	10.40	33.96		26.093	192.8	0.408
200	9.90	34.23		26.389	164.7	0.499
250	9.27	34.31		26.555	148.9	0.580
300	8.88	34.32		26.626	142.2	0.655
400	7.84	34.38		26.832	122.7	0.794
500	6.92	34.41		26.987	108.0	0.916
600	6.13	34.41		27.092	98.0	1.027
700	5.57	34.43		27.178	89.8	1.130
800	4.98	34.45		27.264	81.7	1.224
1000	4.24	34.49		27.378	70.9	1.396

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 123060

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
26 38.0N	116 09.0W	2/ 7/72	0426 GMT	3926M	340	14KT		

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	15.68	33.70		24.841	311.9	0.000
10	15.68	33.70		24.841	311.9	0.031
20	15.68	33.70		24.841	311.9	0.062
30	15.68	33.70		24.841	311.9	0.094
50	15.28	33.61		24.861	310.0	0.156
75	14.09	33.47		25.008	296.0	0.232
100	11.85	33.51		25.482	250.9	0.301
125	10.89	33.78		25.867	214.3	0.360
150	10.51	33.99		26.097	192.4	0.412
200	9.89	34.25		26.406	163.1	0.502
250	9.68	34.39		26.550	149.4	0.583
300	9.13	34.42		26.664	138.6	0.658
400	7.74	34.34		26.815	124.2	0.795
500	6.68	34.36		26.980	108.6	0.919
600	5.99	34.39		27.094	97.8	1.030
700	5.41	34.41		27.181	89.5	1.132
800	4.92	34.44		27.263	81.8	1.226
1000	4.11	34.48		27.384	70.4	1.396

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 127034

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
26 55.5N	114 06.0W	2/ 7/72	2313 GMT	45M	260	7KT	1	260 5 5

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	15.90	33.80		24.868	309.3	0.000
10	15.85	33.81		24.888	307.5	0.031
20	15.77	33.84		24.928	303.6	0.061
30	15.72	33.83		24.932	303.2	0.092

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 127040

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
26 43.5N	114 29.0W	2/ 8/72	0155 GMT	2980M	310	18KT		

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	15.08	33.65		24.935	302.9	0.000
10	15.08	33.65		24.935	302.9	0.030
20	15.07	33.66		24.945	302.0	0.061
30	15.02	33.65		24.949	301.7	0.091
50	13.88	33.55		25.113	286.0	0.150
75	12.08	33.53		25.454	253.5	0.218
100	11.54	33.79		25.757	224.8	0.278
125	10.84	34.00		26.047	197.2	0.331
150	10.44	34.17		26.249	178.0	0.379
200	10.02	34.40		26.501	154.1	0.464
250	9.55	34.44		26.611	143.6	0.541
300	9.10	34.46		26.700	135.2	0.613
400	8.02	34.45		26.860	120.0	0.747
500	7.18	34.46		26.990	107.7	0.869
600	6.34	34.43		27.080	99.1	0.980
700	5.62	34.44		27.180	89.7	1.083
800	5.11	34.45		27.249	83.1	1.179
1000	4.33	34.50		27.376	71.1	1.352

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 127050

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
26 23.0N	115 08.0W	2/ 8/72	0725 GMT	4116M	320	24KT		

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	16.23	33.95		24.908	305.5	0.000
10	16.20	33.94		24.908	305.5	0.031
20	16.20	33.94		24.908	305.5	0.061
30	16.21	33.95		24.913	305.0	0.092
50	16.27	33.97		24.915	304.9	0.153
75	13.22	33.58		25.271	271.0	0.225
100	12.93	33.83		25.522	247.1	0.291
125	10.93	33.60		25.875	213.5	0.349
150	10.40	34.04		26.155	186.9	0.400
200	10.26	34.32		26.397	163.9	0.489
250	10.00	34.44		26.535	150.8	0.570
300	9.55	34.47		26.634	141.4	0.646
400	8.19	34.43		26.819	123.9	0.786
500	6.96	34.42		26.989	107.8	0.909
600	6.24	34.44		27.101	97.1	1.019
700	5.53	34.45		27.199	87.9	1.121
800	5.09	34.46		27.259	82.2	1.215
1000	4.33	34.49		27.368	71.8	1.388

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 127060

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
26 04.0N	115 47.0W	2/ 8/72	1217 GMT	3926M	060	19KT		

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	15.66	33.79		24.915	304.9	0.000
10	15.68	33.79		24.910	305.3	0.031
20	15.68	33.79		24.910	305.3	0.061
30	15.68	33.79		24.910	305.3	0.092
50	15.66	33.79		24.915	304.9	0.153
75	13.59	33.63		25.235	274.4	0.226
100	12.41	33.68		25.662	233.8	0.290
125	10.84	33.92		25.984	203.1	0.345
150	10.49	34.04		26.139	188.4	0.395
200	10.13	34.34		26.435	160.3	0.484
250	9.33	34.37		26.592	145.4	0.563
300	8.79	34.36		26.671	137.9	0.636
400	7.88	34.41		26.850	121.0	0.772
500	6.71	34.38		26.992	107.5	0.893
600	6.10	34.41		27.096	97.6	1.004
700	5.40	34.41		27.183	89.4	1.106
800	4.93	34.45		27.270	81.2	1.200
1000	4.23	34.50		27.387	70.1	1.369

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 130028

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
26 33.0N	113 21.0W	2/ 9/72	1052 GMT	58M	040	12KT		

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	16.36	34.24		25.101	287.1	0.000
10	16.34	34.23		25.098	287.4	0.029
20	16.37	34.25		25.106	286.6	0.057
30	16.37	34.26		25.114	285.9	0.086
50	15.71	34.19		25.210	276.7	0.143

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 130028

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
26 33.0N	113 21.0W	2/ 9/72	1123 GMT	58M	040	12KT		

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT
1	16.43	34.254	5.66	0.57	5.	0.33	0.9	287.7
21	16.45	34.287	5.67	0.57	5.	0.25	0.9	285.7
33	16.40	34.274	5.59	0.60	6.	0.30	0.9	285.5
41	16.39	34.282	5.57	0.61	6.	0.33	1.1	284.7
51	15.86	34.228	4.62	0.90	10.	0.39	5.5	277.1

Z	T	S	O2	SIGT	DT	DD
0	16.43	34.254	5.66	25.095	287.7	0.000
10	16.44	34.273	5.66	25.107	286.5	0.029
20	16.45	34.287	5.67	25.115	285.7	0.057
30	16.41	34.278	5.61	25.117	285.6	0.086
50	15.94	34.238	4.76	25.194	278.2	0.143

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 130030

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
26 29.0N	113 29.0W	2/ 9/72	0921 GMT	80M	090	4KT		

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	16.82	34.28		25.024	294.4	0.000
10	16.61	34.27		25.066	290.5	0.029
20	16.58	34.27		25.073	289.8	0.058
30	16.54	34.27		25.082	288.9	0.087
50	15.06	34.05		25.247	273.2	0.144
75	13.02	34.02		25.650	234.9	0.208

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 130040

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
26 09.0N	114 07.0W	2/ 9/72	0320 GMT	2227M	330	10KT		

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	16.26	34.06		24.986	298.1	0.000
10	16.21	34.09		25.020	294.8	0.030
20	16.14	34.09		25.036	293.3	0.059
30	16.13	34.09		25.039	293.1	0.089
50	14.90	33.90		25.167	280.9	0.146
75	13.14	33.87		25.511	248.2	0.213
100	12.23	34.16		25.913	209.9	0.270
125	11.67	34.31		26.136	188.8	0.321
150	11.22	34.43		26.312	172.0	0.367
200	10.64	34.51		26.478	156.2	0.451
250	10.08	34.52		26.584	146.2	0.529
300	9.46	34.51		26.680	137.0	0.603
400	8.24	34.45		26.827	123.1	0.739
500	7.13	34.44		26.981	108.5	0.863
600	6.31	34.44		27.092	98.0	0.974
700	5.66	34.45		27.183	89.4	1.077
800	5.14	34.47		27.261	82.0	1.172
1000	4.43	34.51		27.373	71.4	1.344

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 130040

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
26 09.0N	114 07.0W	2/ 9/72	0437 GMT	2227M	330	10KT		

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT
0	16.27	34.071	5.87	0.43	4.	0.04	0.2	297.5
10	16.16	34.088	5.75	0.45	5.	0.07	0.4	293.9
30	16.08	34.101	6.11	0.45	5.	0.18	1.4	291.2
54	14.42	33.896	3.99	1.14	12.	0.09	10.5	271.4
69	14.13	34.026	2.30	1.56	20.	0.01	16.8	256.0
84	12.91	33.892	3.09	1.83	15.	0.00	17.0	242.2
99	12.33	33.997	2.57	1.78	20.	0.00	19.6	223.7
128	11.77	34.277	2.62	2.30	29.	0.00	25.8	193.0
154	11.28	34.419	1.19	2.51	34.	0.01	26.1	173.9
179	10.92	34.475	0.89	2.50	35.	0.00	29.0	163.5
213	10.33	34.478	0.91	2.61	40.	0.00	29.5	153.4
277	9.70	34.525	0.27	2.89	46.	0.00	30.5	139.7
376	8.44	34.454	0.24	2.98	55.	0.00	33.1	125.7
474	7.44	34.433	0.26	3.13	67.	0.00	36.0	113.2
607	6.25	34.439	0.22	3.27	83.	0.00	40.3	97.3
759	5.41	34.473	0.33	3.37	94.	0.00	43.2	84.8
906	4.69	34.492	0.36	3.38	110.	0.00	44.8	75.4
1111	4.01	34.521	0.50	3.37	123.	0.01	44.7	66.3

Z	T	S	O2	SIGT	DT	DD
0	16.27	34.071	5.87	24.992	297.5	0.000
10	16.16	34.088	5.75	25.030	293.9	0.030
20	16.12	34.090	6.00	25.040	292.9	0.059
30	16.08	34.101	6.11	25.058	291.2	0.088
50	14.70	33.920	4.46	25.223	275.5	0.145
75	13.35	33.900	2.55	25.492	250.0	0.211
100	12.30	34.008	2.57	25.780	222.5	0.271
125	11.81	34.250	2.61	26.062	195.8	0.324
150	11.35	34.404	1.42	26.267	176.3	0.371
200	10.55	34.481	0.90	26.471	156.9	0.456
250	9.94	34.508	0.56	26.598	144.8	0.534
300	9.41	34.514	0.26	26.691	136.0	0.607
400	8.18	34.446	0.24	26.833	122.6	0.743
500	7.18	34.432	0.25	26.967	109.9	0.867
600	6.30	34.438	0.22	27.091	98.1	0.979
700	5.70	34.460	0.28	27.186	89.1	1.082
800	5.19	34.479	0.34	27.262	81.9	1.176
1000	4.33	34.506	0.41	27.380	70.7	1.348

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 130050

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
25 49.5N	114 46.0W	2/ 8/72	2232 GMT	3357M	340	10KT	1	340 3 4

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	17.61	34.20		24.775	318.2	0.000
10	17.27	34.18		24.841	311.8	0.032
20	17.19	34.18		24.860	310.0	0.063
30	17.01	34.15		24.880	308.1	0.094
50	16.30	34.02		24.946	301.9	0.155
75	13.27	33.90		25.508	248.4	0.224
100	12.37	34.15		25.879	213.2	0.282
125	11.87	34.32		26.106	191.6	0.334
150	11.64	34.43		26.234	179.4	0.381
200	10.88	34.52		26.443	159.5	0.468
250	10.23	34.55		26.581	146.4	0.547
300	9.54	34.50		26.659	139.0	0.621
400	8.27	34.47		26.838	122.1	0.758
500	7.14	34.44		26.980	108.6	0.881
600	6.09	34.42		27.105	96.8	0.992
700	5.52	34.44		27.192	88.5	1.093
800	4.96	34.44		27.258	82.2	1.187
1000	4.31	34.51		27.386	70.1	1.358

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 130060

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
25 29.0N	115 24.0W	2/ 8/72	1658 GMT	3737M	340	5KT	1	340 4 5

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	17.27	34.21		24.864	309.7	0.000
10	17.27	34.21		24.864	309.7	0.031
20	17.26	34.21		24.867	309.4	0.062
30	17.26	34.21		24.867	309.4	0.093
50	17.26	34.21		24.867	309.4	0.155
75	13.10	33.70		25.387	259.9	0.227
100	12.23	33.86		25.681	232.0	0.289
125	11.12	34.07		26.051	196.8	0.343
150	10.37	34.12		26.222	180.5	0.391
200	9.81	34.29		26.450	158.9	0.478
250	9.78	34.43		26.565	148.0	0.557
300	9.42	34.50		26.679	137.2	0.631
400	8.32	34.48		26.838	122.1	0.767
500	7.11	34.44		26.984	108.2	0.890
600	6.37	34.44		27.084	98.7	1.002
700	5.73	34.45		27.174	90.2	1.105
800	5.15	34.47		27.260	82.1	1.200
1000	4.28	34.51		27.389	69.8	1.371

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 130060

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
25 29.0N	115 24.0W	2/ 8/72	1758 GMT	3737M	340	5KT	1	340 4 5

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT
0	17.27	34.211	5.49	0.41	1.	0.02	0.2	309.6
10	17.26	34.210	5.57	0.41	1.	0.00	0.4	309.4
30	17.24	34.208	5.51	0.42	1.	0.01	0.1	309.1
55	17.22	34.207	5.62	0.41	1.	0.01	0.2	308.7
70	14.13	33.693	5.03	0.67	5.	0.15	4.3	280.4
85	12.66	33.611	3.62	1.34	3.	0.01	14.4	258.2
100	12.23	33.926	2.99	1.60	17.	0.01	18.8	227.1
130	11.15	34.074	2.41	1.92	25.	0.00	24.0	197.7
155	10.42	34.142	2.36	2.00	29.	0.01	24.4	179.7
180	10.09	34.221	2.01	2.18	32.	0.02	27.7	168.5
214	9.79	34.292	1.64	2.39	37.	0.00	29.0	158.4
279	9.52	34.440	0.68	2.74	44.	0.01	31.1	143.2
377	8.55	34.461	0.39	2.97	53.	0.01	28.9	126.8
474	7.38	34.439	0.26	3.10	66.	0.00	33.8	111.9
605	6.31	34.451	0.17	3.26	82.	0.00	38.8	97.2
755	5.37	34.469	0.32	3.34	95.	0.01	40.7	84.6
900	4.59	34.487	0.39	3.36	110.	0.00	40.2	74.7
1106	3.87	34.533	0.63	3.33	125.	0.00	40.4	64.0

Z	T	S	O2	SIGT	DT	DD
0	17.27	34.211	5.49	24.865	309.6	0.000
10	17.26	34.210	5.57	24.867	309.4	0.031
20	17.25	34.210	5.55	24.868	309.3	0.062
30	17.24	34.208	5.51	24.870	309.1	0.093
50	17.22	34.208	5.60	24.873	308.8	0.155
75	13.49	33.623	4.56	25.248	273.2	0.228
100	12.23	33.926	2.99	25.732	227.1	0.291
125	11.37	34.075	2.46	26.008	200.8	0.345
150	10.55	34.131	2.37	26.198	182.8	0.394
200	9.90	34.266	1.79	26.416	162.1	0.482
250	9.63	34.381	1.09	26.550	149.4	0.562
300	9.35	34.457	0.62	26.657	139.3	0.637
400	8.27	34.456	0.35	26.827	123.1	0.775
500	7.14	34.440	0.23	26.980	108.6	0.899
600	6.34	34.451	0.17	27.096	97.6	1.010
700	5.69	34.463	0.25	27.189	88.8	1.112
800	5.11	34.474	0.34	27.268	81.3	1.206
1000	4.18	34.508	0.49	27.397	69.0	1.375

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 133030

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
25 55.0N	113 08.0W	2/ 9/72	1846 GMT	109M	170	10KT	2	170 2 3

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	17.92	34.23		24.722	323.1	0.000
10	17.86	34.23		24.737	321.7	0.032
20	17.72	34.20		24.748	320.7	0.064
30	17.25	34.06		24.754	320.1	0.097
50	15.43	33.65		24.859	310.2	0.160
75	13.50	33.94		25.492	249.9	0.230
100	12.42	34.20		25.908	210.4	0.288
125	11.76	34.29		26.103	191.8	0.339
150	11.66	34.44		26.238	179.0	0.387

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 133040

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
25 32.5N	113 45.5W	2/10/72	0040 GMT	1856M	360	4KT	2	360 1 6

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	19.29	34.49		24.577	336.9	0.000
10	19.15	34.49		24.613	333.5	0.034
20	19.14	34.50		24.624	332.6	0.067
30	19.12	34.50		24.629	332.1	0.100
50	18.70	34.38		24.644	330.7	0.167
75	16.77	34.16		24.944	302.0	0.246
100	13.98	34.21		25.601	239.6	0.315
125	12.85	34.44		26.009	200.8	0.370
150	12.22	34.53		26.201	182.5	0.419
200	11.41	34.66		26.455	158.4	0.507
250	11.03	34.67		26.533	151.0	0.587
300	10.32	34.63		26.628	142.0	0.663
400	9.03	34.55		26.782	127.4	0.805
500	7.47	34.45		26.941	112.3	0.933
600	6.57	34.45		27.066	100.5	1.048
700	5.81	34.46		27.172	90.4	1.152
800	5.23	34.47		27.250	83.0	1.248
1000	4.38	34.51		27.378	70.8	1.422

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 133050

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
25 14.0N	114 24.0W	2/10/72	0530 GMT	3737M	300	6KT		

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	18.40	34.39		24.726	322.8	0.000
10	18.39	34.39		24.729	322.5	0.032
20	18.36	34.39		24.736	321.8	0.065
30	17.78	34.25		24.772	318.4	0.097
50	16.18	34.02		24.974	299.3	0.159
75	12.46	33.78		25.575	242.0	0.227
100	11.60	33.99		25.901	211.1	0.284
125	11.77	34.32		26.125	189.8	0.335
150	11.18	34.38		26.280	175.0	0.381
200	10.85	34.50		26.433	160.5	0.467
250	10.18	34.49		26.543	150.0	0.547
300	9.41	34.47		26.657	139.2	0.622
400	8.34	34.46		26.819	123.8	0.761
500	7.26	34.44		26.963	110.2	0.885
600	6.32	34.45		27.099	97.4	0.997
700	5.61	34.45		27.189	88.8	1.099
800	5.11	34.49		27.280	80.1	1.193
1000	4.25	34.51		27.392	69.5	1.361

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 133060

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
24 53.5N	115 02.0W	2/10/72	1238 GMT	3926M	360	2KT		

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	17.19	34.13		24.822	313.7	0.000
10	17.20	34.13		24.820	313.9	0.031
20	17.19	34.13		24.822	313.7	0.063
30	17.09	34.11		24.831	312.9	0.094
50	16.82	34.06		24.856	310.4	0.157
75	16.41	33.98		24.890	307.2	0.234
100	12.49	33.90		25.662	233.8	0.303
125	11.93	34.21		26.009	200.8	0.358
150	11.72	34.34		26.150	187.4	0.407
200	11.11	34.56		26.433	160.5	0.496
250	10.64	34.57		26.525	151.8	0.577
300	9.99	34.59		26.654	139.6	0.653
400	8.68	34.51		26.806	125.1	0.792
500	7.42	34.47		26.964	110.2	0.918
600	6.36	34.46		27.101	97.1	1.030
700	5.68	34.46		27.188	88.9	1.131
800	5.10	34.49		27.281	80.0	1.225
1000	4.30	34.52		27.395	69.3	1.393

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 137023

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
25 34.0N	112 19.0W	2/11/72	1235 GMT	75M	030	3KT		

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	18.25	34.47		24.824	313.4	0.000
10	18.24	34.47		24.827	313.2	0.031
20	18.15	34.47		24.849	311.1	0.063
30	17.97	34.45		24.878	308.3	0.094
50	15.63	34.24		25.267	271.3	0.152

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 137023

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
25 34.0N	112 19.0W	2/11/72	1251 GMT	75M	030	3KT		00

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT
0	18.23	34.462	5.61	0.46		0.09	0.0	313.5
20	18.13	34.456	5.52	0.48		0.08	0.0	311.6
31	18.01	34.445	5.20	0.58		0.25	1.0	309.6
41	16.32	34.244	3.72	1.20		0.21	9.0	286.0
51	15.60	34.188	3.22	1.40		0.08	11.6	274.5

Z	T	S	O2	SIGT	DT	DD
0	18.23	34.462	5.61	24.823	313.5	0.000
10	18.20	34.462	5.57	24.830	312.9	0.031
20	18.13	34.456	5.52	24.843	311.6	0.063
30	18.02	34.447	5.23	24.863	309.8	0.094
50	15.63	34.189	3.23	25.227	275.1	0.152

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 137030

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
25 20.0N	112 45.5W	2/11/72	0856 GMT	457M	020	3KT		

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	17.96	34.30		24.766	319.0	0.000
10	17.98	34.32		24.776	318.0	0.032
20	18.02	34.34		24.782	317.5	0.064
30	18.03	34.36		24.795	316.3	0.095
50	17.02	34.27		24.969	299.6	0.157
75	15.01	34.04		25.250	272.9	0.229
100	12.96	34.23		25.824	218.3	0.291
125	12.31	34.44		26.114	190.7	0.343
150	11.94	34.53		26.255	177.4	0.390
200	11.15	34.59		26.449	159.0	0.476
250	10.71	34.59		26.528	151.5	0.556
300	10.33	34.57		26.579	146.6	0.634
400	10.23	34.59		26.612	143.5	0.787

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 137040

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
25 00.0N	113 22.5W	2/11/72	0316 GMT	3263M		0KT		

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	18.40	34.31		24.665	328.6	0.000
10	18.08	34.27		24.714	324.0	0.033
20	17.69	34.27		24.809	314.9	0.065
30	17.79	34.32		24.823	313.6	0.096
50	16.72	34.18		24.971	299.5	0.158
75	14.21	34.06		25.437	255.1	0.227
100	13.03	34.12		25.726	227.7	0.288
125	12.36	34.46		26.120	190.2	0.341
150	12.25	34.60		26.250	177.9	0.388
200	11.74	34.64		26.378	165.7	0.476
250	11.29	34.69		26.501	154.1	0.559
300	10.46	34.64		26.611	143.6	0.637
400	9.02	34.55		26.783	127.3	0.779
500	7.88	34.49		26.912	115.0	0.909
600	6.75	34.47		27.057	101.3	1.026
700	6.00	34.49		27.172	90.4	1.131
800	5.31	34.47		27.241	83.9	1.228
1000	4.48	34.51		27.368	71.9	1.403

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 137040

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
25 00.0N	113 22.5W	2/11/72	0420 GMT	3263M		0KT		00

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT
0	18.27	34.295	5.63	0.36		0.05	0.2	326.6
10	18.11	34.273	5.62	0.37		0.05	0.2	324.5
29	17.68	34.224	5.71	0.44		0.08	0.5	318.0
54	16.20	34.127	4.14	1.00		0.19	8.0	291.9
69	14.76	34.066	3.11	1.52		0.08	15.1	266.3
83	13.78	34.110	2.66	1.72		0.07	18.0	242.9
98	13.30	34.157	2.25	1.92		0.06	20.4	230.2
128	12.40	34.386	1.22	2.35		0.05	25.7	196.4
152	12.39	34.590	0.83	2.62		0.11	26.6	181.2
178	12.13	34.621	0.49	2.62		0.04	27.6	174.1
211	11.65	34.668	0.32	2.77		0.04	28.3	162.0
275	10.81	34.647	0.18	2.79		0.04	27.7	149.0
374	9.13	34.546	0.22	3.02		0.04	30.7	129.3
472	8.10	34.523	0.17	3.13		0.06	33.6	115.7
604	6.67	34.476	0.19	3.23		0.05	38.4	99.8
756	5.59	34.473	0.23	3.36		0.04	42.5	86.9
903	4.77	34.490	0.30	3.38		0.05	44.6	76.4
1108	4.03	34.530	0.51	3.42		0.05	45.2	65.8

Z	T	S	O2	SIGT	DT	DD
0	18.27	34.295	5.63	24.686	326.6	0.000
10	18.11	34.273	5.62	24.709	324.5	0.033
20	17.93	34.250	5.67	24.735	322.0	0.065
30	17.64	34.222	5.67	24.783	317.4	0.097
50	16.51	34.145	4.46	24.992	297.4	0.159
75	14.30	34.080	2.88	25.432	255.6	0.228
100	13.22	34.170	2.18	25.724	227.8	0.289
125	12.47	34.359	1.32	26.021	199.6	0.343
150	12.39	34.579	0.85	26.205	182.1	0.392
200	11.82	34.655	0.36	26.374	166.1	0.481
250	11.14	34.667	0.21	26.509	153.2	0.564
300	10.38	34.621	0.19	26.610	143.7	0.641
400	8.83	34.538	0.21	26.804	125.3	0.783
500	7.78	34.512	0.17	26.944	112.0	0.910
600	6.71	34.478	0.19	27.068	100.3	1.025
700	5.94	34.471	0.21	27.164	91.2	1.129
800	5.32	34.477	0.25	27.245	83.5	1.226
1000	4.36	34.508	0.38	27.379	70.8	1.400

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 137050

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
24 39.5N	114 02.0W	2/10/72	2234 GMT	2980M	330	2KT	2	00

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	19.82	34.38		24.357	358.0	0.000
10	19.69	34.38		24.391	354.8	0.036
20	19.50	34.41		24.463	347.9	0.071
30	19.16	34.44		24.573	337.4	0.105
50	17.70	34.18		24.738	321.7	0.171
75	14.05	33.74		25.224	275.4	0.246
100	12.18	33.86		25.691	231.0	0.310
125	11.91	34.30		26.083	193.8	0.364
150	11.75	34.50		26.268	176.2	0.411
200	11.14	34.56		26.443	159.6	0.497
250	10.47	34.57		26.555	148.9	0.577
300	9.73	34.53		26.651	139.8	0.652
400	8.60	34.54		26.842	121.7	0.790
500	7.62	34.51		26.966	109.9	0.914
600	6.62	34.47		27.075	99.6	1.027
700	5.77	34.46		27.177	89.9	1.131
800	5.22	34.48		27.259	82.1	1.226
1000	4.40	34.52		27.384	70.3	1.398

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 137060

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
24 20.0N	114 39.0W	2/10/72	1717 GMT	3737M	290	1KT	1	00

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
									0	18.75	34.36		24.616	333.3	0.000
									10	18.73	34.36		24.621	332.8	0.033
									20	18.73	34.36		24.621	332.8	0.067
									30	18.75	34.38		24.631	331.9	0.100
									50	17.90	34.18		24.689	326.3	0.166
									75	13.95	33.72		25.230	274.9	0.242
									100	12.68	33.94		25.656	234.4	0.306
									125	12.05	34.22		25.994	202.2	0.361
									150	11.85	34.45		26.210	181.7	0.410
									200	11.09	34.53		26.413	162.4	0.498
									250	10.48	34.54		26.530	151.3	0.579
									300	9.82	34.54		26.644	140.5	0.655
									400	8.44	34.49		26.828	123.1	0.794
									500	7.35	34.48		26.982	108.5	0.917
									600	6.41	34.46		27.095	97.7	1.029
									700	5.73	34.46		27.182	89.5	1.131
									800	5.16	34.48		27.267	81.4	1.226
									1000	4.25	34.51		27.392	69.5	1.396

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 137060

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
24 20.0N	114 39.0W	2/10/72	1803 GMT	3737M	290	1KT	1	

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
0	18.75	34.355	5.38	0.37	2.	0.00	0.0	333.7	0	18.75	34.355	5.38	24.612	333.7	0.000
10	18.71	34.360	5.43	0.36	2.	0.00	0.0	332.3	10	18.71	34.360	5.43	24.626	332.3	0.033
30	18.72	34.369	5.39	0.36	2.	0.00	0.2	331.9	20	18.72	34.365	5.41	24.628	332.1	0.067
55	17.63	34.167	5.24	0.47	3.	0.15	0.8	321.0	30	18.72	34.369	5.39	24.630	331.9	0.100
70	15.71	33.880	4.74	0.72	5.	0.12	4.2	299.3	50	18.00	34.233	5.27	24.704	324.9	0.166
85	13.59	33.728	4.09	1.08	9.	0.03	10.1	267.2	75	14.96	33.809	4.52	25.083	288.8	0.243
100	12.53	33.794	3.60	1.38	13.	0.01	14.8	242.3	100	12.53	33.794	3.60	25.572	242.3	0.310
130	11.95	34.212	1.84	2.11	26.	0.00	23.9	201.0	125	12.05	34.157	2.14	25.945	206.8	0.366
155	11.72	34.430	1.01	2.44	32.	0.06	25.6	180.8	150	11.77	34.399	1.12	26.186	183.9	0.416
181	11.24	34.466	0.93	2.52	34.	0.00	27.4	169.7	200	11.03	34.504	0.75	26.404	163.3	0.505
215	10.89	34.530	0.59	2.66	37.	0.00	28.8	159.0	250	10.49	34.553	0.41	26.539	150.5	0.586
278	10.14	34.553	0.33	2.83	43.	0.00	29.2	144.7	300	9.84	34.548	0.31	26.646	140.3	0.662
375	8.81	34.515	0.24	3.02	53.	0.00	31.1	126.7	400	8.48	34.505	0.23	26.833	122.5	0.800
471	7.60	34.480	0.21	3.18	65.	0.00	34.4	111.9	500	7.29	34.474	0.21	26.985	108.2	0.923
601	6.36	34.462	0.23	3.29	81.	0.00	39.7	97.0	600	6.37	34.463	0.23	27.102	97.1	1.034
750	5.33	34.477	0.26	3.35	94.	0.00	41.1	83.6	700	5.64	34.470	0.25	27.201	87.7	1.135
896	4.57	34.503	0.36	3.37	109.	0.00	43.7	73.3	800	5.04	34.486	0.29	27.285	79.7	1.228
1106	3.90	34.527	0.62	3.31	126.	0.03	43.8	64.8	1000	4.18	34.519	0.47	27.407	68.2	1.394

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 140030

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
24 45.5N	112 24.0W	2/11/72	1953 GMT	106M		0KT	1	00

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
									0	19.58	34.54		24.541	340.4	0.000
									10	19.45	34.54		24.574	337.2	0.034
									20	19.39	34.52		24.575	337.2	0.068
									30	18.59	34.32		24.625	332.4	0.101
									50	15.94	34.11		25.097	287.5	0.163
									75	13.60	34.15		25.633	236.5	0.229

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 140030

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
24 45.5N	112 24.0W	2/11/72	2021 GMT	106M		0KT	1	00

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
1	19.65	34.522	5.49	0.40		0.05	0.0	343.5	0	19.65	34.522	5.49	24.509	343.5	0.000
12	19.40	34.519	5.48	0.39		0.05	0.0	337.5	10	19.43	34.520	5.48	24.564	338.2	0.034
22	19.37	34.516	5.47	0.39		0.06	0.0	337.0	20	19.38	34.517	5.47	24.576	337.1	0.068
32	18.58	34.414	5.31	0.47		0.10	1.4	325.3	30	18.77	34.438	5.35	24.670	328.1	0.101
51	17.13	34.233	4.53	0.81		0.21	6.1	304.8	50	17.21	34.246	4.59	24.904	305.8	0.165
77	13.98		2.63	1.69		0.11	14.7		75	14.27		2.81			

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 140035

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
24 35.5N	112 42.5W	2/11/72	2217 GMT	558M	040	2KT	1	49 1

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
									0	19.66	34.53		24.512	343.1	0.000
									10	19.41	34.50		24.554	339.2	0.034
									20	19.34	34.51		24.580	336.7	0.068
									30	19.18	34.46		24.583	336.4	0.102
									50	17.24	34.08		24.772	318.4	0.167
									75	13.88	34.05		25.498	249.3	0.239
									100	12.95	34.37		25.935	207.8	0.297
									125	12.38	34.40		26.070	195.0	0.348
									150	11.82	34.51		26.262	176.7	0.395
									200	11.01	34.58		26.466	157.3	0.481
									250	10.55	34.58		26.549	149.5	0.560
									300	9.73	34.54		26.659	139.1	0.635
									400	8.43	34.52		26.853	120.7	0.772
									500	7.31	34.50		27.003	106.4	0.893

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 140040

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
24 26.0N	113 01.5W	2/12/72	0128 GMT	3451M	060	3KT	1	00

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
									0	18.83	34.51		24.710	324.3	0.000
									10	18.72	34.49		24.722	323.1	0.032
									20	18.66	34.49		24.737	321.7	0.065
									30	18.48	34.45		24.752	320.3	0.097
									50	16.53	34.19		25.023	294.5	0.159
									75	13.82	34.12		25.565	243.0	0.226
									100	13.27	34.41		25.901	211.0	0.284
									125	12.53	34.57		26.172	185.3	0.334
									150	12.04	34.63		26.313	171.8	0.379
									200	11.42	34.63		26.430	160.8	0.465
									250	10.70	34.62		26.553	149.1	0.545
									300	10.04	34.60		26.653	139.6	0.620
									400	8.57	34.51		26.823	123.5	0.758
									500	7.44	34.47		26.961	110.4	0.883
									600	6.45	34.48		27.105	96.7	0.995
									700	5.77	34.47		27.185	89.2	1.097
									800	5.12	34.49		27.279	80.3	1.191
									1000	4.40	34.52		27.384	70.3	1.361

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 140040

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
24 26.0N	113 01.5W	2/12/72	0243 GMT	3451M	090	3KT	1	

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
2	18.88	34.491	5.55	0.40	2.	0.02	0.0	326.9	0	18.88	34.491	5.55	24.683	326.9	0.000
12	18.69	34.474	5.59	0.44	3.	0.02	0.0	323.6	10	18.72	34.477	5.59	24.712	324.2	0.033
32	18.51	34.460	5.49	0.36	2.	0.04	0.0	320.3	20	18.62	34.469	5.55	24.731	322.3	0.065
56	16.09	34.212	3.37	1.26	12.	0.08	10.4	283.3	30	18.53	34.462	5.50	24.749	320.6	0.097
71	13.87	34.043	2.67	1.58	15.	0.06	16.4	249.6	50	16.87	34.286	3.93	25.016	295.2	0.159
85	13.67	34.305	1.73	2.12	21.	0.07	20.7	226.5	75	13.81	34.132	2.54	25.575	242.0	0.227
100	13.35	34.393	1.30	2.28	24.	0.05	24.0	213.8	100	13.35	34.393	1.30	25.872	213.8	0.284
129	12.60	34.519	0.85	2.55	30.	0.03	26.1	190.3	125	12.71	34.506	0.89	26.088	193.2	0.336
154	12.02	34.552	0.65	2.57	33.	0.10	26.4	177.2	150	12.10	34.549	0.67	26.239	178.9	0.383
179	11.82	34.611	0.52	2.66	35.	0.07	27.0	169.3	200	11.58	34.626	0.42	26.397	163.9	0.471
213	11.41	34.625	0.37	2.74	37.	0.05	28.0	161.0	250	10.90	34.621	0.29	26.518	152.4	0.553
276	10.52	34.608	0.27	2.82	42.	0.01	27.2	146.9	300	10.18	34.591	0.25	26.621	142.7	0.630
372	9.17	34.529	0.21	2.96	51.	0.02	30.5	131.1	400	8.80	34.514	0.20	26.790	126.6	0.771
468	7.92	34.466	0.19	3.18	63.	0.03	33.8	115.9	500	7.50	34.479	0.19	26.959	110.6	0.898
596	6.38	34.472	0.21	3.30	82.	0.05	38.6	96.5	600	6.34	34.473	0.21	27.113	96.0	1.010
744	5.34	34.478	0.24	3.38	93.	0.07	42.0	83.6	700	5.59	34.476	0.23	27.211	86.7	1.110
887	4.68	34.502	0.33	3.24	108.	0.04	44.8	74.6	800	5.05	34.487	0.27	27.285	79.7	1.202
1088	4.04	34.534	0.52	3.42	125.	0.06	44.7	65.6	1000	4.28	34.521	0.43	27.398	69.0	1.370

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 140050

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
24 05.0N	113 40.0W	2/12/72	0737 GMT	3169M	020	4KT		

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
									0	20.36	34.48		24.291	364.3	0.000
									10	20.36	34.48		24.291	364.3	0.036
									20	20.37	34.48		24.288	364.5	0.073
									30	19.85	34.41		24.372	356.6	0.109
									50	19.19	34.34		24.489	345.4	0.180
									75	15.05	33.72		24.996	297.2	0.260
									100	12.96	34.00		25.647	235.2	0.327
									125	12.53	34.31		25.971	204.4	0.383
									150	12.00	34.53		26.244	178.5	0.432
									200	11.47	34.65		26.436	160.2	0.519
									250	10.84	34.64		26.544	150.0	0.599
									300	10.40	34.63		26.614	143.3	0.675
									400	8.91	34.55		26.801	125.6	0.817
									500	7.57	34.46		26.934	113.0	0.944
									600	6.64	34.44		27.048	102.1	1.060
									700	5.93	34.46		27.157	91.9	1.167
									800	5.29	34.47		27.243	83.6	1.264
									1000	4.38	34.50		27.371	71.6	1.439

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 140060

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
23 45.5N	114 19.0W	2/12/72	1243 GMT	4688M	090	10KT		

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
									0	20.10	34.48		24.359	357.7	0.000
									10	20.09	34.48		24.362	357.5	0.036
									20	20.08	34.48		24.365	357.2	0.072
									30	19.99	34.47		24.381	355.7	0.107
									50	18.98	34.32		24.527	341.7	0.177
									75	17.45	34.09		24.729	322.5	0.261
									100	13.93	33.82		25.311	267.2	0.335
									125	13.71	34.29		25.719	228.4	0.398
									150	13.76	34.70		26.024	199.3	0.452
									200	12.30	34.80		26.395	164.1	0.545
									250	10.94	34.73		26.596	145.1	0.625
									300	9.88	34.65		26.719	133.3	0.698
									400	8.24	34.55		26.905	115.7	0.830
									500	7.12	34.48		27.014	105.4	0.948
									600	6.45	34.48		27.105	96.7	1.057
									700	5.81	34.51		27.211	86.7	1.158
									800	5.29	34.51		27.275	80.7	1.251
									1000	4.50	34.54		27.389	69.8	1.421

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 140060

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
23 45.5N	114 19.0W	2/12/72	1356 GMT	4688M	090	5KT		00

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
1	20.08	34.440	5.43	0.34	2.	0.00	0.2	360.1	0	20.08	34.440	5.43	24.334	360.1	0.000
11	20.08	34.439	5.40	0.33	2.	0.00	0.2	360.2	10	20.08	34.440	5.40	24.333	360.2	0.036
32	20.00	34.434	5.48	0.33	2.	0.00	0.1	358.6	20	20.05	34.437	5.43	24.341	359.5	0.072
56	18.93	34.376	5.51	0.37	2.	0.01	0.2	336.5	30	20.01	34.435	5.47	24.349	358.7	0.108
71	18.43	34.289	5.49	0.39	2.	0.03	0.2	330.8	50	19.23	34.398	5.50	24.522	342.2	0.178
86	15.38	33.746	5.26	0.57	4.	0.22	2.4	302.1	75	17.66	34.127	5.43	24.706	324.7	0.262
101	13.96	33.856	3.77	1.23	11.	0.03	11.6	265.1	100	14.01	33.839	3.89	25.307	267.5	0.337
130	13.98	34.438	1.45	2.03	23.	0.01	23.0	222.8	125	13.98	34.370	1.76	25.725	227.8	0.400
158	13.86	34.617	0.87	2.52	28.	0.06	24.1	207.7	150	13.91	34.575	0.93	25.896	211.5	0.456
177	13.05	34.648	0.69	2.63	31.	0.00	25.5	189.3	200	12.41	34.714	0.39	26.307	172.4	0.554
213	12.12	34.742	0.24	2.81	37.	0.00	27.6	165.1	250	11.18	34.691	0.18	26.521	152.1	0.638
276	10.58	34.626	0.14	2.90	43.	0.84	25.8	146.6	300	10.16	34.609	0.14	26.639	141.0	0.714
372	9.08	34.569	0.15	3.05	52.	0.00	30.1	126.8	400	8.61	34.539	0.17	26.839	122.0	0.853
469	7.56	34.475	0.23	3.12A	64.A	0.02A	35.4A	111.7	500	7.24	34.467	0.25	26.987	108.0	0.975
598	6.49	34.468	0.27	3.29A	77.A	0.02A	38.9A	98.1	600	6.48	34.469	0.27	27.092	97.9	1.087
747	5.57	34.488	0.26	3.38	91.	0.01	41.9	85.5	700	5.84	34.482	0.26	27.185	89.1	1.189
892	4.77	34.491	0.37	3.34	103.	0.02	43.9	76.4	800	5.26	34.489	0.29	27.262	81.9	1.284
1098	4.03	34.526	0.58	3.35	120.	0.02	45.1	66.1	1000	4.32	34.506	0.47	27.381	70.6	1.456

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 143026

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
24 19.0N	111 48.0W	2/13/72	1446 GMT	75M	020	1KT	1	290 1 7

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
									0	19.36	34.58		24.628	332.1	0.000
									10	19.36	34.58		24.628	332.1	0.033
									20	19.36	34.58		24.628	332.1	0.066
									30	19.33	34.58		24.636	331.4	0.100
									50	18.55	34.54		24.803	315.5	0.165

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 143026

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
24 19.0N	111 48.0W	2/13/72	1510 GMT	75M	020	1KT	1	290 1 7

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
0	19.33	34.588	5.34	0.45	4.	0.05	0.2	330.8	0	19.33	34.588	5.34	24.642	330.8	0.000
11	19.34	34.587	5.38	0.50	4.	0.06	0.8	331.1	10	19.34	34.588	5.38	24.639	331.1	0.033
21	19.34	34.588	5.38	0.50	4.	0.08	0.1	331.0	20	19.34	34.589	5.38	24.639	331.1	0.066
31	19.34	34.589	5.29	0.55	4.	0.11	0.2	331.0	30	19.34	34.590	5.30	24.640	331.0	0.099
51	18.45	34.563	3.78	1.14	9.	0.54	7.4	311.4	50	18.52	34.566	3.90	24.829	313.0	0.164

A) THE NUTRIENT SAMPLES AT 469 AND 598 METERS APPEAR TO HAVE BEEN REVERSED. THEY ARE ASSUMED TO NOW BE IN THE CORRECT ORDER.

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 143030

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
24 11.5N	112 03.0W	2/13/72	1216 GMT	214M	360	10KT		

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	19.03	34.42		24.591	335.7	0.000
10	19.03	34.43		24.598	335.0	0.034
20	18.46	34.29		24.635	331.5	0.067
30	17.40	34.17		24.803	315.5	0.099
50	16.54	34.13		24.975	299.1	0.161
75	14.21	34.07		25.445	254.4	0.231
100	13.21	34.24		25.782	222.3	0.291
125	12.82	34.43		26.007	201.0	0.345
150	12.17	34.54		26.219	180.8	0.393

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 143030

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
24 11.5N	112 03.0W	2/13/72	1249 GMT	214M	360	10KT		

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT
1	19.03	34.444	5.55	0.46	1.	0.02	0.7	334.0
12	19.01	34.442	5.61	0.43	1.	0.00	0.5	333.6
31	17.91	34.245	5.55	0.45	2.	0.04	0.3	321.8
41	17.22 A	34.125	5.56	0.44	2.	0.12	0.4	314.7
56	16.16	34.152	3.66	1.27	10.	0.08	9.3	289.6
71	14.97	34.102	3.12	1.62	13.	0.09	12.6	267.6
87	13.69	34.166	2.16	1.92	20.	0.03	17.1	237.1
106	13.12	34.292	1.42	2.24	25.	0.03	20.6	216.8
130	12.63	34.576	0.48	2.63	31.	0.05	25.2	186.7
156	12.11	34.591	0.49	2.70	32.	0.03	26.0	176.0

Z	T	S	O2	SIGT	DT	DD
0	19.03	34.444	5.55	24.609	334.0	0.000
10	19.01	34.443	5.60	24.612	333.7	0.033
20	18.65	34.377	5.59	24.654	329.7	0.067
30	17.99	34.260	5.55	24.728	322.6	0.099
50	16.61	34.132	4.48	24.960	300.5	0.162
75	14.62	34.111	2.88	25.389	259.7	0.232
100	13.24	34.246	1.63	25.781	222.4	0.293
125	12.72	34.522	0.64	26.097	192.4	0.346
150	12.23	34.588	0.49	26.244	178.4	0.393

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 143035

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
24 02.0N	112 20.5W	2/13/72	0855 GMT	1485M	340	8KT		

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	19.63	34.57		24.551	339.5	0.000
10	19.48	34.55		24.574	337.2	0.034
20	19.06	34.50		24.644	330.6	0.067
30	18.65	34.42		24.687	326.6	0.100
50	17.80	34.41		24.889	307.3	0.164
75	15.41	34.14		25.239	274.0	0.237
100	14.21	34.47		25.753	225.1	0.300
125	13.42	34.62		26.033	198.5	0.354
150	12.47	34.62		26.223	180.5	0.402
200	11.60	34.61		26.381	165.4	0.491
250	10.75	34.65		26.568	147.7	0.572
300	10.11	34.62		26.656	139.3	0.646
400	8.77	34.56		26.831	122.8	0.785
500	7.44	34.52		27.000	106.7	0.907
600	6.64	34.52		27.111	96.2	1.017
700	5.94	34.52		27.203	87.5	1.118
800	5.35	34.52		27.276	80.6	1.212
1000	4.46	34.54		27.394	69.4	1.382

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 143040

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
23 50.0N	112 41.0W	2/13/72	0530 GMT	3357M	340	7KT		

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	21.17	34.73		24.262	367.0	0.000
10	20.81	34.71		24.345	359.1	0.036
20	20.72	34.70		24.361	357.5	0.072
30	20.68	34.69		24.365	357.2	0.108
50	19.54	34.50		24.521	342.3	0.178
75	15.18	34.12		25.274	270.6	0.255
100	13.12	34.22		25.785	222.1	0.318
125	12.66	34.51		26.100	192.1	0.370
150	11.90	34.56		26.286	174.5	0.417
200	11.30	34.66		26.476	156.5	0.502
250	10.80	34.68		26.582	146.4	0.580
300	10.10	34.64		26.674	137.7	0.654
400	8.98	34.60		26.829	123.0	0.791
500	7.78	34.54		26.966	109.9	0.916
600	6.75	34.51		27.089	98.3	1.029
700	5.96	34.50		27.185	89.2	1.132
800	5.33	34.49		27.254	82.6	1.228
1000	4.49	34.55		27.398	69.0	1.399

A) MEAN VALUE OF 17.16 AND 17.27 DEGREES

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 143040

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
23 50.0N	112 41.0W	2/13/72	0612 GMT	3357M	340	7KT		

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
0	21.22	34.675	5.29	0.48	2.	0.00	0.0	372.2	0	21.22	34.675	5.29	24.207	372.2	0.000
10	21.20	34.670	5.27	0.45	2.	0.02	0.0	372.1	10	21.20	34.670	5.27	24.209	372.1	0.037
30	20.62	34.652	5.35	0.47	3.	0.00	0.0	356.4	20	20.70	34.660	5.32	24.336	359.9	0.074
55	18.85	34.442	4.93	0.65	3.	0.32	2.2	329.8	30	20.62	34.652	5.35	24.352	358.4	0.110
70	14.84	34.035	3.26					269.8	50	19.20	34.482	5.01	24.593	335.5	0.180
85	13.53	34.150	2.39					235.1	75	14.22	34.049	2.91	25.427	256.1	0.254
99	12.91	34.277	1.83	2.16	23.	0.01	22.8	213.9	100	12.87	34.285	1.80	25.884	212.7	0.313
129	12.13	34.449	1.03	2.53	30.	0.00	26.7	186.8	125	12.19	34.433	1.11	26.131	189.2	0.364
154	11.95	34.533	0.69	2.64	32.	0.03	27.4	177.3	150	11.97	34.523	0.73	26.244	178.5	0.411
179	11.65	34.592	0.51	2.72	35.	0.00	28.2	167.6	200	11.27	34.613	0.40	26.444	159.5	0.498
213	11.03	34.617	0.35	2.84	38.	0.00	28.1	154.9	250	10.56	34.620	0.25	26.577	146.8	0.577
278	10.27	34.611	0.21	2.97	43.	0.00	28.2	142.6	300	10.03	34.607	0.18	26.659	139.0	0.651
374	9.21	34.578	0.14	3.06	51.	0.00	29.9	128.1	400	8.89	34.562	0.15	26.813	124.5	0.790
471	8.03	34.519	0.16	3.15	60.	0.00	34.0	115.0	500	7.72	34.510	0.16	26.951	111.3	0.916
603	6.73	34.493	0.18	3.31	76.	0.01	38.2	99.3	600	6.76	34.494	0.18	27.075	99.7	1.030
754	5.50	34.483	0.24	3.44	93.	0.00	42.2	85.1	700	5.89	34.484	0.22	27.180	89.7	1.134
900	4.62	34.507	0.30	3.45	103.	0.01	45.5	75.7	800	5.25	34.490	0.25	27.263	81.8	1.229
1107	4.11	34.539	0.51	3.50	120.	0.00	44.7	65.9	1000	4.44	34.524	0.38	27.383	70.5	1.401

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 143050

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
23 30.5N	113 18.0W	2/12/72	2349 GMT	2885M	360	6KT	2	360 2 3

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
									0	20.40	34.61		24.379	355.9	0.000
									10	20.26	34.67		24.461	348.0	0.035
									20	20.24	34.67		24.467	347.5	0.070
									30	20.11	34.64		24.478	346.4	0.105
									50	19.68	34.56		24.530	341.5	0.174
									75	16.45	34.08		24.957	300.8	0.255
									100	13.56	34.04		25.557	243.8	0.323
									125	12.40	34.39		26.058	196.1	0.379
									150	12.17	34.63		26.289	174.2	0.426
									200	11.50	34.72		26.485	155.5	0.511
									250	10.86	34.69		26.579	146.6	0.589
									300	10.28	34.67		26.666	138.4	0.663
									400	8.81	34.60		26.856	120.4	0.800
									500	7.59	34.50		26.963	110.3	0.923
									600	6.76	34.52		27.095	97.7	1.036
									700	6.02	34.51		27.185	89.2	1.139
									800	5.43	34.51		27.258	82.2	1.234
									1000	4.53	34.53		27.378	70.9	1.407

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 143060

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
23 10.0N	113 55.0W	2/12/72	1804 GMT	3737M		0KT	1	00

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
									0	20.63	34.53		24.256	367.5	0.000
									10	20.60	34.53		24.265	366.8	0.037
									20	20.59	34.53		24.267	366.5	0.073
									30	20.59	34.53		24.267	366.5	0.110
									50	20.55	34.53		24.278	365.5	0.184
									75	15.43	33.58		24.805	315.3	0.269
									100	12.86	33.80		25.512	248.0	0.340
									125	12.15	34.11		25.890	212.1	0.398
									150	12.60	34.57		26.159	186.6	0.449
									200	11.75	34.66		26.392	164.4	0.539
									250	11.12	34.72		26.555	148.9	0.620
									300	10.08	34.64		26.677	137.3	0.695
									400	8.93	34.59		26.829	122.9	0.832
									500	7.66	34.53		26.976	109.0	0.956
									600	6.70	34.51		27.095	97.7	1.068
									700	6.06	34.52		27.188	88.9	1.171
									800	5.49	34.52		27.259	82.2	1.266
									1000	4.49	34.54		27.390	69.7	1.438

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 147020

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
23 56.0N	111 03.5W	2/13/72	2023 GMT	136M	270	3KT	1	290 1 5

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
									0	20.87	34.56		24.215	371.5	0.000
									10	20.83	34.54		24.210	371.9	0.037
									20	20.61	34.62		24.330	360.5	0.074
									30	18.82	34.24		24.507	343.7	0.109
									50	16.58	34.38		25.157	281.8	0.172
									75	14.95	34.67		25.747	225.6	0.236
									100	14.17	34.67		25.915	209.7	0.291

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 147020

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
23 56.0N	111 03.5W	2/13/72	2117 GMT	136M	270	3KT	1	290 1 5

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT
1	21.01	34.562	5.33	0.40	3.	0.10	0.0	375.0
11	20.72	34.567	5.29	0.47	3.	0.05	0.0	367.1
31	17.53	34.218	4.16	1.16	8.	0.35	6.8	315.0
41	16.37	34.249	2.98	1.55	13.	0.36	12.8	286.7
56	15.80	34.615	1.30	2.36	21.	0.12	21.4	247.6
72	15.10	34.658	0.87	2.57	25.	0.15	23.4	229.6
86	14.55	34.683	0.63	2.66	25.	0.13	23.8	216.4
108	14.20	34.689	0.59	2.69	30.	0.13	24.7	208.9
125	13.62	34.683	0.42	2.71	32.	0.19	25.3	197.8

Z	T	S	O2	SIGT	DT	DD
0	21.01	34.562	5.33	24.178	375.0	0.000
10	20.75	34.559	5.29	24.246	368.5	0.037
20	19.43	34.398	4.97	24.471	347.1	0.073
30	17.72	34.233	4.25	24.774	318.3	0.106
50	15.95	34.466	1.89	25.368	261.7	0.165
75	14.97	34.665	0.81	25.739	226.4	0.226
100	14.32	34.691	0.60	25.900	211.1	0.281
125	13.62	34.683	0.42	26.040	197.8	0.333

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 147025

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
23 46.5N	111 23.0W	2/13/72	2324 GMT	273M	270	5KT	1	270 1 6

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	20.13	34.65		24.481	346.2	0.000
10	19.91	34.67		24.554	339.2	0.034
20	19.87	34.66		24.557	338.9	0.068
30	19.34	34.60		24.648	330.2	0.102
50	18.55	34.58		24.834	312.5	0.166
75	14.37	34.35		25.626	237.1	0.236
100	13.36	34.63		26.049	197.0	0.290
125	12.93	34.68		26.178	184.7	0.339
150	12.32	34.69		26.306	172.5	0.384
200	11.49	34.69		26.464	157.6	0.469
250	10.75	34.65		26.568	147.7	0.548

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 147025

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
23 46.5N	111 23.0W	2/13/72	2359 GMT	273M	270	5KT	1	270 1 6

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT
2	20.26	34.710 U	5.50	0.57		0.06	0.1	
6	20.26	34.665	5.52	0.47		0.05	0.0	348.3
23	19.87	34.671	5.45	0.55		0.13	0.1	338.1
43	19.50	34.632	5.08	0.72		0.42	1.4	331.8
65	16.34	34.464	1.92	1.93		0.13	18.3	270.4
90	13.96	34.596	0.80	2.53		0.07	25.0	210.9
120	12.97	34.694	0.62	2.71	33.	0.09	24.0	184.4
168	12.20	34.708	0.27	2.81	37.	0.08	25.6	169.0
218	11.42	34.698	0.20	2.93	40.	0.06	25.1	155.7
246	10.75	34.661	0.09	2.86U	44.	0.06	25.4	146.9

Z	T	S	O2	SIGT	DT	DD
0	20.26	34.650	5.50	24.446	349.4	0.000
10	20.19	34.672	5.50	24.480	346.2	0.035
20	19.96	34.675	5.46	24.544	340.1	0.069
30	19.74	34.658	5.32	24.588	335.9	0.103
50	18.60	34.564	4.12	24.809	314.9	0.168
75	15.23	34.500	1.26	25.555	243.9	0.239
100	13.50	34.639	0.74	26.031	198.6	0.295
125	12.87	34.701	0.58	26.207	182.0	0.343
150	12.43	34.716	0.39	26.304	172.7	0.388
200	11.73	34.708	0.22	26.432	160.5	0.474

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 147030

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
23 33.5N	111 41.5W	2/14/72	0258 GMT	464M	300	10KT		

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	21.19	34.66		24.204	372.5	0.000
10	21.11	34.64		24.210	371.9	0.037
20	21.08	34.65		24.226	370.4	0.074
30	21.05	34.64		24.227	370.3	0.112
50	20.29	34.57		24.378	356.0	0.184
75	18.09	34.27		24.711	324.2	0.270
100	15.08	34.43		25.535	245.9	0.342
125	13.71	34.51		25.888	212.2	0.400
150	12.43	34.55		26.176	184.9	0.451
200	11.63	34.62		26.383	165.2	0.540
250	11.00	34.62		26.499	154.2	0.623
300	10.15	34.61		26.642	140.7	0.700
400	8.86	34.55		26.809	124.8	0.839

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 147035

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
23 25.0N	112 00.0W	2/14/72	0545 GMT	2980M	280	8KT		

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
									0	20.68	34.64		24.327	360.8	0.000
									10	20.58	34.61		24.331	360.5	0.036
									20	20.52	34.63		24.362	357.5	0.072
									30	20.50	34.63		24.367	357.0	0.108
									50	20.34	34.58		24.372	356.5	0.179
									75	19.10	34.39		24.550	339.6	0.267
									100	15.18	34.27		25.390	259.6	0.343
									125	13.13	34.41		25.930	208.3	0.402
									150	12.60	34.58		26.166	185.8	0.452
									200	11.95	34.69		26.377	165.8	0.542
									250	11.02	34.64		26.511	153.1	0.625
									300	10.26	34.60		26.615	143.2	0.702
									400	8.82	34.54		26.807	125.0	0.843
									500	7.50	34.49		26.968	109.8	0.968
									600	6.66	34.48		27.077	99.4	1.082
									700	6.03	34.49		27.168	90.8	1.186
									800	5.32	34.51		27.271	81.0	1.281
									1000	4.42	34.54		27.398	69.0	1.451

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 147035

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
23 25.0N	112 00.0W	2/14/72	0633 GMT	2980M	280	8KT		

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
0	20.74	34.636	5.33	0.38	3.	0.00	0.2	362.7	0	20.74	34.636	5.33	24.307	362.7	0.000
10	20.60	34.634	5.36	0.40	3.	0.00	0.0	359.2	10	20.60	34.634	5.36	24.343	359.2	0.036
30	20.51	34.628	5.35	0.39	3.	0.00	0.0	357.4	20	20.58	34.642	5.36	24.355	358.1	0.072
55	20.35	34.613	5.43	0.40	3.	0.02	0.1	354.4	30	20.51	34.628	5.35	24.363	357.4	0.108
70	20.04	34.550	5.13	0.47	5.	0.19	2.2	351.1	50	19.83	34.473	5.41	24.425	351.5	0.179
85	18.88	34.459	3.92	0.97	7.	0.07	7.4	329.2	75	19.82	34.537	4.76	24.477	346.5	0.267
100	15.65	34.161	3.09	1.44	12.	0.01	13.2	277.5	100	15.65	34.161	3.09	25.202	277.5	0.346
130	13.69	34.477	1.10	2.39	26.	0.00	23.1	214.3	125	13.78	34.403	1.38	25.790	221.6	0.409
155	12.64	34.501	0.93	2.50	30.	0.00	26.1	192.4	150	12.80	34.500	0.96	26.065	195.5	0.462
180	12.30	34.659	0.43	2.68	34.	0.00	27.0	174.5	200	12.09	34.706	0.34	26.363	167.1	0.555
214	11.93	34.713	0.27	2.73	37.	0.00	27.3	163.7	250	11.27	34.686	0.23	26.501	154.0	0.638
279	10.69	34.643	0.20	2.84	42.	0.00	27.3	147.2	300	10.39	34.632	0.18	26.616	143.1	0.715
377	9.39	34.592	0.15	2.99	53.	0.01	28.0	129.9	400	9.04	34.577	0.16	26.800	125.7	0.857
474	7.97	34.530	0.19	3.13	63.	0.00	33.1	113.3	500	7.68	34.523	0.19	26.966	109.9	0.983
605	6.72	34.508	0.20	3.28	80.	0.01	37.6	98.1	600	6.76	34.509	0.20	27.086	98.6	1.096
755	5.51	34.510	0.23	3.42	96.	0.01	41.3	83.2	700	5.91	34.507	0.22	27.196	88.2	1.198
902	4.75	34.521	0.29	3.44	110.	0.05	43.6	73.9	800	5.24	34.514	0.24	27.283	79.9	1.292
1107	4.09	34.542	0.51	3.42	124.	0.03	43.8	65.5	1000	4.38	34.532	0.38	27.396	69.2	1.461

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 147040

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
23 16.5N	112 18.5W	2/14/72	0903 GMT	3357M	330	10KT		

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
									0	20.48	34.62		24.365	357.2	0.000
									10	20.49	34.62		24.362	357.4	0.036
									20	20.49	34.62		24.362	357.4	0.072
									30	20.46	34.62		24.370	356.7	0.107
									50	20.44	34.62		24.376	356.2	0.179
									75	20.34	34.60		24.387	355.1	0.268
									100	15.21	34.10		25.253	272.7	0.348
									125	13.58	34.62		26.000	201.6	0.408
									150	13.00	34.69		26.172	185.3	0.457
									200	12.12	34.72		26.368	166.7	0.547
									250	11.55	34.72		26.476	156.4	0.631
									300	10.64	34.63		26.572	147.3	0.710
									400	9.20	34.54		26.746	130.8	0.656
									500	7.90	34.49		26.909	115.3	0.988
									600	6.80	34.47		27.050	101.9	1.105
									700	5.96	34.49		27.177	90.0	1.210
									800	5.32	34.50		27.263	81.7	1.306
									1000	4.43	34.53		27.389	69.9	1.477

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 147050

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
22 56.5N	112 55.5W	2/14/72	1444 GMT	3169M	350	3KT	2	350 1 5

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	20.12	34.41		24.301	363.3	0.000
10	20.13	34.41		24.298	363.6	0.036
20	20.12	34.42		24.308	362.6	0.073
30	20.09	34.44		24.331	360.4	0.109
50	19.71	34.42		24.416	352.3	0.181
75	16.10	34.37		25.260	272.0	0.259
100	13.94	34.47		25.810	219.7	0.321
125	12.65	34.49		26.087	193.4	0.374
150	11.81	34.48		26.241	178.7	0.421
200	11.49	34.64		26.425	161.3	0.508
250	10.83	34.63		26.538	150.5	0.589
300	10.21	34.58		26.608	143.9	0.665
400	8.77	34.52		26.800	125.7	0.807
500	7.74	34.50		26.941	112.3	0.934
600	6.73	34.49		27.076	99.6	1.049
700	6.06	34.49		27.164	91.2	1.154
800	5.62	34.50		27.227	85.2	1.252
1000	4.66	34.53		27.364	72.3	1.430

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 147060

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
22 35.5N	113 33.0W	2/14/72	2003 GMT	3737M	310	4KT	8	310 1 7

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	20.60	34.46		24.211	371.8	0.000
10	20.58	34.46		24.217	371.3	0.037
20	20.56	34.46		24.222	370.8	0.074
30	20.55	34.46		24.225	370.6	0.111
50	19.67	34.43		24.434	350.6	0.184
75	14.54	33.87		25.221	275.7	0.263
100	13.60	34.35		25.787	221.8	0.325
125	13.48	34.71		26.090	193.1	0.378
150	12.34	34.65		26.271	175.9	0.425
200	11.59	34.66		26.422	161.6	0.512
250	10.91	34.64		26.531	151.2	0.592
300	10.30	34.61		26.616	143.1	0.669
400	9.16	34.57		26.776	127.9	0.812
500	7.81	34.51		26.938	112.6	0.941
600	6.72	34.50		27.085	98.7	1.055
700	6.08	34.49		27.161	91.4	1.159
800	5.45	34.49		27.240	84.0	1.257
1000	4.53	34.53		27.378	70.9	1.432

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 147060

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
22 35.5N	113 33.0W	2/14/72	2107 GMT	3737M	310	4KT	2	310 1 7

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT
1	20.58	34.464	5.46	0.31	2.	0.05	0.0	371.0
12	20.54	34.463	5.35	0.33	2.	0.00	0.0	370.1
32	20.51	34.458	5.36	0.34	3.	0.00	0.0	369.7
56	19.61	34.487	5.44	0.32	3.	0.03	0.7	345.0
72	17.46	34.502	4.45	0.75	6.	0.21	5.0	292.7
87	13.90	33.843	3.84	1.19	10.	0.07	10.6	264.9
102	13.50	34.169	2.30	1.90	19.	0.03	19.2	233.1
132	13.50	34.694	0.52	2.64	30.	0.02	25.7	194.6
156	12.66	34.668	0.70	2.68	33.	0.00	27.0	180.5
182	12.10	34.661	0.37	2.73	34.	0.00		170.6
216	11.58	34.661	0.33	2.75	37.	0.00	27.7	161.3
280	10.87	34.684	0.19	2.87	41.	0.01	26.0	147.2
378	9.53	34.605	0.16	3.01	50.	0.00	28.2	131.1
475	8.07	34.537	0.15	3.13	63.	0.10	32.4	114.2
605	6.66	34.508	0.16	3.29	78.	0.00	37.5	97.3
755	5.70	34.503	0.20	3.35	90.	0.00	40.7	85.9
900	4.93	34.519	0.25	3.39	104.	0.11	40.7	76.0
1106	3.97	34.533	0.57	3.36	119.	0.08	42.3	65.0

Z	T	S	O2	SIGT	DT	DD
0	20.58	34.464	5.46	24.220	371.0	0.000
10	20.55	34.464	5.36	24.228	370.2	0.037
20	20.53	34.462	5.35	24.231	369.9	0.074
30	20.51	34.459	5.36	24.234	369.7	0.111
50	19.83	34.473	5.42	24.425	351.5	0.184
75	16.68	34.347	4.35	25.107	286.5	0.264
100	13.55	34.128	2.52	25.625	237.2	0.330
125	13.50	34.607	0.76	26.005	201.1	0.386
150	12.89	34.692	0.66	26.195	183.1	0.434
200	11.80	34.661	0.35	26.382	165.4	0.524
250	11.19	34.676	0.25	26.508	153.4	0.606
300	10.61	34.674	0.18	26.610	143.7	0.684
400	9.19	34.588	0.16	26.784	127.2	0.826
500	7.75	34.528	0.15	26.960	110.5	0.954
600	6.70	34.509	0.16	27.094	97.8	1.067
700	6.00	34.503	0.18	27.181	89.5	1.169
800	5.45	34.508	0.21	27.253	82.7	1.265
1000	4.44	34.528	0.37	27.385	70.2	1.438

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 150019

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
23 24.0N	110 38.0W	2/16/72	0252 GMT	279M	310	24KT		

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	20.64	34.69		24.375	356.2	0.000
10	20.65	34.69		24.373	356.4	0.036
20	20.65	34.69		24.373	356.4	0.071
30	20.25	34.66		24.456	348.5	0.107
50	15.82	34.09		25.109	286.4	0.170
75	14.14	34.44		25.744	225.9	0.235
100	13.30	34.62		26.057	196.2	0.288
125	12.83	34.65		26.175	185.0	0.337
150	12.56	34.65		26.228	179.9	0.383
200	11.66	34.69		26.432	160.6	0.470

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 150025

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
23 12.0N	111 01.5W	2/15/72	2258 GMT	1391M	320	18KT	1	320 5 5

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
									0	20.40	34.68		24.432	350.8	0.000
									10	20.39	34.68		24.434	350.5	0.035
									20	19.76	34.60		24.540	340.5	0.070
									30	19.55	34.57		24.571	337.5	0.104
									50	16.91	34.40		25.095	287.7	0.166
									75	14.78	34.60		25.731	227.2	0.231
									100	13.95	34.66		25.954	206.0	0.286
									125	13.24	34.67		26.108	191.4	0.337
									150	12.79	34.71		26.229	179.8	0.384
									200	11.66	34.69		26.432	160.6	0.471
									250	11.16	34.69		26.525	151.8	0.552
									300	10.24	34.60		26.618	142.9	0.629
									400	9.12	34.55		26.767	128.8	0.772
									500	7.51	34.49		26.966	109.9	0.899
									600	6.74	34.50		27.082	98.9	1.012
									700	6.06	34.50		27.172	90.4	1.116
									800	5.44	34.51		27.257	82.4	1.213
									1000	4.70	34.53		27.359	72.7	1.388

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 150025

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
23 12.0N	111 01.5W	2/15/72	2346 GMT	1391M	320	18KT	1	320 5 5

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
2	20.35	34.669	5.40	0.57	4.	0.00	0.6	350.3	0	20.35	34.669	5.40	24.437	350.3	0.000
11	20.33	34.668	5.36	0.55	4.	0.02	0.6	349.9	10	20.33	34.669	5.37	24.441	350.0	0.035
32	19.36	34.560	5.10	0.61	4.	0.25	1.0	333.6	20	20.09	34.631	5.25	24.475	346.7	0.070
57	16.12	34.513	1.84					262.0	30	19.51	34.574	5.12	24.582	336.5	0.104
72	14.65	34.607	0.90	2.50	25.	0.00	25.8	224.0	50	17.09	34.502	2.81	25.130	284.4	0.167
87	14.07	34.625	0.66	2.57	28.	0.01	28.2	211.0	75	14.49	34.614	0.82	25.803	220.3	0.230
102	13.72	34.665	0.54	2.64	30.	0.01	27.5	201.1	100	13.76	34.660	0.55	25.993	202.2	0.283
132	13.14	34.708	0.43	2.73	33.	0.00	28.3	186.6	125	13.27	34.701	0.45	26.126	189.6	0.333
156	12.71	34.739	0.32	2.76	35.	0.15	26.0	176.2	150	12.83	34.735	0.34	26.241	178.7	0.380
181	11.95	34.689	0.34	2.68	36.	0.00	28.5	165.9	200	11.65	34.687	0.36	26.431	160.6	0.467
214	11.49	34.690	0.37	2.86	38.	0.00	22.80	157.6	250	11.03	34.680	0.26	26.540	150.3	0.548
278	10.69	34.666	0.16	2.92	44.	0.00	25.8	145.5	300	10.46	34.656	0.15	26.623	142.5	0.624
375	9.60	34.606	0.13	2.98	47.	0.12	27.8	132.1	400	9.18	34.585	0.13	26.783	127.3	0.766
472	8.00	34.532	0.15	3.18	64.	0.00	33.3	113.6	500	7.68	34.523	0.15	26.967	109.8	0.893
601	6.77	34.506	0.17					98.9	600	6.78	34.507	0.17	27.082	99.0	1.006
750	5.65	34.510	0.19	3.37	94.	0.00	43.1	84.8	700	5.98	34.507	0.18	27.187	89.0	1.109
897	5.01	34.517	0.22	3.45	106.	0.03	45.2	77.0	800	5.40	34.512	0.19	27.263	81.8	1.205
1107	4.18	34.546	0.43	3.50	123.	0.01	45.4	66.1	1000	4.59	34.529	0.30	27.370	71.6	1.378

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 150030

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
23 02.0N	111 22.0W	2/15/72	1953 GMT	2790M	310	15KT	1	310 5 5

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
									0	20.88	34.56		24.212	371.8	0.000
									10	20.82	34.56		24.228	370.2	0.037
									20	20.54	34.59		24.326	360.9	0.074
									30	20.14	34.54		24.394	354.4	0.110
									50	17.86	34.41		24.875	308.7	0.176
									75	15.33	34.41		25.464	252.6	0.247
									100	14.14	34.62		25.883	212.7	0.306
									125	13.02	34.66		26.145	187.9	0.356
									150	12.68	34.72		26.259	177.0	0.403
									200	11.88	34.74		26.429	160.8	0.490
									250	11.09	34.69		26.537	150.6	0.570
									300	10.44	34.65		26.622	142.5	0.647
									400	8.92	34.54		26.791	126.5	0.788
									500	7.63	34.49		26.949	111.5	0.916
									600	6.64	34.47		27.072	99.9	1.030
									700	5.99	34.48		27.165	91.1	1.135
									800	5.43	34.48		27.234	84.5	1.232
									1000	4.44	34.52		27.380	70.7	1.407

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 150035

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
22 52.0N	111 38.0W	2/18/72	1443 GMT	3357M	340	12KT	1	340 4 3

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT
1	21.28	34.619	5.27	0.34	2.	0.07	0.0	377.9
11	21.28	34.619	5.25	0.36	2.	0.02	0.2	377.8
30	21.03	34.635	5.32	0.37	3.	0.04	0.1	370.2
55	19.95	34.568	5.21	0.45	3.	0.24	0.7	347.6
70	17.29	34.300	4.07	1.02	8.	0.27	8.9	303.6
85	14.94	34.346	1.92	1.95	18.	0.12	20.7	249.1
99	14.22	34.547	0.97	2.43	24.	0.05	25.6	219.7
130	13.20	34.652	0.55	2.64	31.	0.04	27.7	191.9
154	12.46	34.639	0.45	2.67	33.	0.10	28.8	178.9
179	12.19	34.685	0.35	2.72	34.	0.03	29.6	170.5
214	11.81	34.741	0.32	2.77	37.	0.03	28.9	159.5
278	10.92	34.675	0.21	2.81	41.	0.00	27.8	148.8
376	9.56	34.604	0.20	2.98	50.	0.01	30.2	131.6
474	8.09	34.547	0.20	3.16	63.	0.06	34.3	113.8
605	6.60	34.510	0.20	3.27	81.	0.03	40.2	96.4
755	5.33	34.519	0.32	3.40	96.	0.01	44.7	80.4
901	4.60	34.532	0.35	3.46	113.	0.00	46.0	71.5
1102	3.84	34.549	0.60	3.40	127.	0.00	44.9	62.5

Z	T	S	O2	SIGT	DT	DD
0	20.37	34.61		24.387	355.1	0.000
10	20.27	34.60		24.406	353.3	0.035
20	20.27	34.60		24.406	353.3	0.071
30	20.23	34.59		24.409	353.0	0.106
50	18.52	34.38		24.689	326.4	0.174
75	16.55	34.32		25.118	285.5	0.251
100	13.86	34.38		25.757	224.7	0.316
125	13.49	34.68		26.065	195.5	0.369
150	12.81	34.69		26.210	181.7	0.417
200	11.78	34.70		26.417	162.0	0.505
250	11.10	34.67		26.520	152.2	0.587
300	10.45	34.63		26.605	144.2	0.664
400	9.03	34.56		26.789	126.7	0.807
500	7.66	34.50		26.952	111.2	0.934
600	6.79	34.48		27.059	101.1	1.049
700	5.97	34.48		27.168	90.8	1.154
800	5.36	34.49		27.251	82.9	1.250
1000	4.42	34.53		27.390	69.7	1.423

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 150040

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
22 42.5N	111 55.5W	2/15/72	1311 GMT	3169M	340	15KT		

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT
1	21.28	34.619	5.27	0.34	2.	0.07	0.0	377.9
11	21.28	34.619	5.25	0.36	2.	0.02	0.2	377.8
30	21.03	34.635	5.32	0.37	3.	0.04	0.1	370.2
55	19.95	34.568	5.21	0.45	3.	0.24	0.7	347.6
70	17.29	34.300	4.07	1.02	8.	0.27	8.9	303.6
85	14.94	34.346	1.92	1.95	18.	0.12	20.7	249.1
99	14.22	34.547	0.97	2.43	24.	0.05	25.6	219.7
130	13.20	34.652	0.55	2.64	31.	0.04	27.7	191.9
154	12.46	34.639	0.45	2.67	33.	0.10	28.8	178.9
179	12.19	34.685	0.35	2.72	34.	0.03	29.6	170.5
214	11.81	34.741	0.32	2.77	37.	0.03	28.9	159.5
278	10.92	34.675	0.21	2.81	41.	0.00	27.8	148.8
376	9.56	34.604	0.20	2.98	50.	0.01	30.2	131.6
474	8.09	34.547	0.20	3.16	63.	0.06	34.3	113.8
605	6.60	34.510	0.20	3.27	81.	0.03	40.2	96.4
755	5.33	34.519	0.32	3.40	96.	0.01	44.7	80.4
901	4.60	34.532	0.35	3.46	113.	0.00	46.0	71.5
1102	3.84	34.549	0.60	3.40	127.	0.00	44.9	62.5

Z	T	S	O2	SIGT	DT	DD
0	21.32	34.62		24.138	378.8	0.000
10	21.33	34.63		24.143	378.4	0.038
20	21.30	34.66		24.174	375.4	0.076
30	21.08	34.64		24.219	371.1	0.113
50	20.52	34.62		24.354	358.2	0.186
75	17.00	34.29		24.989	297.7	0.269
100	14.31	34.54		25.785	222.0	0.334
125	13.32	34.70		26.115	190.7	0.387
150	12.54	34.67		26.248	178.1	0.434
200	11.94	34.70		26.387	164.9	0.522
250	11.25	34.68		26.500	154.1	0.604
300	10.71	34.67		26.590	145.6	0.682
400	9.14	34.56		26.772	128.4	0.827
500	7.54	34.50		26.970	109.6	0.954
600	6.59	34.49		27.094	97.8	1.066
700	5.74	34.48		27.196	88.1	1.168
800	5.12	34.50		27.287	79.5	1.261
1000	4.24	34.53		27.409	67.9	1.427

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 150040

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
22 42.5N	111 55.5W	2/15/72	1430 GMT	3169M	320	12KT		320 4 5

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 150050

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
22 24.0N	112 33.0W	2/15/72	0758 GMT	3451M	340	7KT		

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	21.39	34.62		24.119	380.6	0.000
10	21.38	34.62		24.122	380.4	0.038
20	21.31	34.62		24.141	378.6	0.076
30	20.72	34.63		24.308	362.6	0.113
50	20.27	34.53		24.352	358.4	0.186
75	17.47	34.23		24.832	312.8	0.270
100	14.69	34.43		25.619	237.8	0.339
125	13.46	34.60		26.009	200.7	0.395
150	12.56	34.64		26.220	180.7	0.444
200	11.91	34.75		26.431	160.6	0.531
250	11.15	34.67		26.511	153.1	0.612
300	10.54	34.63		26.589	145.7	0.690
400	8.85	34.55		26.810	124.7	0.833
500	7.51	34.49		26.966	109.9	0.958
600	6.36	34.48		27.117	95.6	1.069
700	5.63	34.49		27.218	86.1	1.169
800	5.07	34.49		27.285	79.7	1.261
1000	4.24	34.55		27.425	66.4	1.426

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 150060

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
22 01.0N	113 12.0W	2/15/72	0104 GMT	3737M	320	9KT	2	320 2 3

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	20.45	34.31		24.138	378.9	0.000
10	20.46	34.31		24.135	379.1	0.038
20	20.32	34.26		24.134	379.2	0.076
30	20.23	34.33		24.211	371.9	0.114
50	20.20	34.33		24.219	371.1	0.188
75	16.41	33.76		24.722	323.2	0.275
100	14.73	34.23		25.457	253.2	0.348
125	13.29	34.37		25.866	214.3	0.407
150	13.37	34.69		26.097	192.4	0.459
200	11.82	34.68		26.394	164.2	0.550
250	11.22	34.70		26.521	152.1	0.632
300	10.38	34.64		26.625	142.3	0.709
400	8.87	34.55		26.807	125.0	0.850
500	7.45	34.50		26.983	108.3	0.975
600	6.54	34.49		27.101	97.1	1.086
700	5.85	34.50		27.198	87.9	1.187
800	5.18	34.50		27.280	80.2	1.281
1000	4.22	34.53		27.412	67.7	1.448

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 153016

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
22 55.0N	110 07.5W	2/16/72	0731 GMT	371M	330	19KT		

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	21.49	34.62		24.091	383.3	0.000
10	21.50	34.62		24.089	383.5	0.038
20	21.40	34.61		24.109	381.6	0.077
30	19.48	34.45		24.498	344.5	0.113
50	16.09	34.19		25.124	284.9	0.176
75	15.04	34.47		25.574	242.1	0.243
100	14.50	34.65		25.830	217.8	0.301
125	13.49	34.67		26.057	196.2	0.353
150	12.59	34.70		26.261	176.8	0.401
200	11.91	34.73		26.416	162.1	0.488
250	11.14	34.69		26.528	151.5	0.569
300	10.59	34.65		26.596	145.0	0.646

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 153020

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
22 47.0N	110 22.0W	2/16/72	1003 GMT	1298M	330	24KT		

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	20.92	34.66		24.277	365.5	0.000
10	20.93	34.66		24.274	365.8	0.037
20	20.83	34.66		24.301	363.2	0.073
30	20.71	34.67		24.341	359.4	0.109
50	18.72	34.44		24.684	326.8	0.178
75	14.09	34.28		25.632	236.6	0.249
100	13.21	34.59		26.052	196.6	0.304
125	12.45	34.65		26.250	177.9	0.351
150	12.19	34.67		26.316	171.6	0.396
200	11.47	34.70		26.475	156.5	0.480
250	10.78	34.67		26.578	146.7	0.559
300	10.43	34.64		26.616	143.1	0.634
400	8.97	34.55		26.791	126.5	0.776
500	7.96	34.52		26.924	113.9	0.905
600	6.72	34.49		27.077	99.4	1.020
700	5.99	34.50		27.181	89.6	1.124
800	5.51	34.50		27.240	83.9	1.221
1000	4.53	34.54		27.386	70.1	1.395

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 153020

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
22 47.0N	110 22.0W	2/16/72	1107 GMT	1298M	330	24KT		

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
2	20.86	34.663	5.29	0.45	2.	0.00	0.2	363.8	0	20.86	34.663	5.29	24.296	363.8	0.000
12	20.84	34.662	5.30	0.45	2.	0.00	0.1	363.3	10	20.84	34.663	5.30	24.299	363.4	0.036
30	20.66	34.678	5.35	0.46	3.	0.00	1.0	357.6	20	20.76	34.670	5.32	24.327	360.8	0.073
54	18.47	34.454	3.60	1.16	9.	0.34	9.2	319.8	30	20.66	34.678	5.35	24.361	357.6	0.109
68	14.92	34.290	2.12	1.84	17.	0.02	19.3	252.8	50	19.08	34.508	4.00	24.643	330.7	0.178
82	13.75	34.299	1.69	2.10	21.	0.03	21.6	228.5	75	14.14	34.278	1.86	25.819	237.8	0.249
96	13.33	34.494	0.88	2.46	27.	0.01	25.7	206.0	100	13.21	34.527	0.81	26.003	201.3	0.305
124	12.59	34.633	0.42	2.65	32.	0.01	27.5	181.7	125	12.57	34.637	0.42	26.216	181.1	0.353
147	12.17	34.681	0.38	2.73	34.	0.00	26.9	170.5	150	12.15	34.685	0.36	26.334	169.9	0.398
171	12.05	34.700	0.25	2.74	35.	0.00	28.1	166.9	200	11.60	34.712	0.22	26.459	158.0	0.482
204	11.53	34.712	0.22	2.81	37.	0.00	27.9	156.7	250	10.95	34.692	0.19	26.564	148.1	0.561
263	10.80	34.681	0.18	2.89	42.	0.00	26.8	146.3	300	10.33	34.652	0.18	26.643	140.6	0.637
355	9.65	34.606	0.18	3.01	49.	0.00	29.2	132.9	400	9.20	34.583	0.23	26.778	127.7	0.778
446	8.72	34.559	0.28	3.09	56.	0.00	31.5	122.1	500	7.90	34.532	0.24	26.942	112.2	0.906
570	6.87	34.512	0.16	3.30	76.	0.00	37.1	99.7	600	6.59	34.510	0.17	27.109	96.3	1.020
710	5.83	34.508	0.19	3.40		0.04	41.7	87.1	700	5.88	34.508	0.19	27.200	87.7	1.121
848	5.04	34.521	0.28	3.00U		0.01	44.2	77.0	800	5.29	34.516	0.24	27.280	80.2	1.214
1044	4.38	34.537	0.43	3.40		0.00	43.9	68.8	1000	4.48	34.535	0.39	27.387	70.0	1.384

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 153025

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
22 37.0N	110 39.0W	2/16/72	1336 GMT	2602M	350	10KT	1	300 8 5

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
									0	20.80	34.59		24.256	367.5	0.000
									10	20.68	34.61		24.304	363.0	0.037
									20	20.27	34.58		24.390	354.8	0.072
									30	20.02	34.57		24.449	349.2	0.108
									50	19.44	34.47		24.524	342.1	0.177
									75	15.04	34.00		25.213	276.5	0.255
									100	14.23	34.56		25.818	218.9	0.318
									125	13.43	34.69		26.085	193.6	0.370
									150	12.54	34.68		26.255	177.4	0.417
									200	11.42	34.67		26.461	157.8	0.503
									250	10.58	34.62		26.574	147.1	0.582
									300	10.03	34.61		26.662	138.7	0.656
									400	8.73	34.57		26.845	121.4	0.794
									500	7.71	34.51		26.953	111.2	0.918
									600	6.71	34.50		27.086	98.6	1.032
									700	6.09	34.49		27.160	91.5	1.136
									800	5.38	34.49		27.248	83.2	1.233
									1000	4.55	34.53		27.376	71.1	1.407

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 153030

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
22 27.0N	110 59.0W	2/16/72	1638 GMT	3169M	330	8KT	2	330 4 5

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
									0	21.32	34.52		24.062	386.0	0.000
									10	21.32	34.52		24.062	386.0	0.039
									20	21.32	34.52		24.062	386.0	0.077
									30	21.32	34.52		24.062	386.0	0.116
									50	21.07	34.47		24.092	383.2	0.193
									75	17.57	33.90		24.555	339.1	0.284
									100	14.52	33.98		25.310	267.3	0.360
									125	11.99	33.93		25.781	222.5	0.422
									150	12.54	34.45		26.077	194.3	0.475
									200	11.53	34.64		26.417	162.0	0.567
									250	11.09	34.65		26.506	153.5	0.648
									300	10.44	34.62		26.599	144.7	0.726
									400	8.81	34.51		26.785	127.1	0.869
									500	7.62	34.49		26.950	111.4	0.996
									600	6.71	34.49		27.076	99.3	1.110
									700	6.07	34.49		27.163	91.3	1.215
									800	5.34	34.50		27.261	82.0	1.311
									1000	4.44	34.53		27.388	70.0	1.483

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 153030

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
22 27.0N	110 59.0W	2/16/72	1739 GMT	3169M	330	6KT	1	330 4 5

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
0	21.38	34.525	5.29	0.37		0.00	0.0	387.3	0	21.38	34.525	5.29	24.050	387.3	0.000
9	21.32	34.520	5.28	0.39		0.02	0.1	386.0	10	21.32	34.520	5.28	24.062	386.0	0.039
29	21.30	34.520	5.31	0.37		0.00	0.0	385.5	20	21.31	34.520	5.30	24.064	385.8	0.077
53	20.52	34.359	5.49	0.34				377.1	30	21.29	34.519	5.32	24.070	385.3	0.116
68	19.49	34.328	4.76	0.64		0.27	3.0	353.6	50	21.00	34.480	5.47	24.119	380.6	0.193
83	15.46	33.896	4.20	1.06		0.12	8.4	292.9	75	17.58	34.095	4.51	24.700	325.3	0.282
97	14.77	34.024	3.30	1.34		0.06	13.2	269.1	100	14.46	34.031	3.18	25.360	262.5	0.356
127	12.07	34.134	2.22	2.06		0.00	22.1	208.9	125	12.23	34.125	2.28	25.886	212.5	0.416
151	12.23	34.446	1.00	2.50		0.02	26.7	188.8	150	12.22	34.438	1.05	26.129	189.4	0.467
176	12.03	34.564	0.48	2.510		0.00		175.0	200	11.77	34.598	0.27	26.338	169.5	0.559
211	11.64	34.586	0.23	2.78		0.00	27.9	167.9	250	11.09	34.626	0.21	26.487	155.4	0.643
274	10.72	34.647	0.19	2.89		0.01	28.1	147.4	300	10.35	34.635	0.19	26.626	142.2	0.720
372	9.33	34.565	0.18	3.03		0.01	30.2	130.9	400	8.90	34.547	0.18	26.800	125.7	0.861
469	7.91	34.515	0.19	3.21		0.01	34.4	113.6	500	7.57	34.508	0.19	26.971	109.4	0.987
602	6.69	34.498	0.19	3.34		0.02	38.4	98.4	600	6.70	34.499	0.19	27.085	98.6	1.100
754	5.66	34.499	0.23	3.41		0.02	43.0	85.7	700	6.00	34.498	0.21	27.178	89.9	1.203
901	4.80	34.511	0.38	3.46		0.01	44.5	75.2	800	5.37	34.502	0.27	27.259	82.2	1.299
1108	4.11	34.542	0.51	3.47		0.00	45.0	65.7	1000	4.39	34.526	0.45	27.389	69.9	1.471

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 153035

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
22 17.0N	111 17.0W	2/16/72	2048 GMT	2980M	330	12KT	1	330 4 5

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
									0	22.30	34.57		23.828	408.4	0.000
									10	22.29	34.57		23.831	408.1	0.041
									20	22.16	34.56		23.860	405.3	0.082
									30	22.06	34.54		23.873	404.1	0.122
									50	21.70	34.50		23.942	397.5	0.203
									75	17.22	34.05		24.754	320.2	0.293
									100	13.35	33.80		25.414	257.3	0.366
									125	12.15	34.06		25.851	215.8	0.425
									150	11.96	34.41		26.158	186.6	0.477
									200	11.39	34.59		26.405	163.2	0.566
									250	10.63	34.56		26.519	152.3	0.648
									300	10.08	34.55		26.607	144.0	0.725
									400	8.64	34.52		26.820	123.8	0.866
									500	7.50	34.48		26.960	110.5	0.991
									600	6.69	34.50		27.089	98.3	1.104
									700	5.90	34.49		27.184	89.3	1.207
									800	5.38	34.49		27.248	83.2	1.302
									1000	4.50	34.52		27.373	71.3	1.477

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 153040

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
22 07.0N	111 36.5W	2/16/72	2331 GMT	4116M	350	13KT	1	350 4 5

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
									0	22.11	34.55		23.866	404.7	0.000
									10	22.11	34.55		23.866	404.7	0.040
									20	21.98	34.56		23.910	400.5	0.081
									30	21.04	34.50		24.123	380.2	0.120
									50	20.98	34.50		24.140	378.7	0.196
									75	18.42	33.94		24.378	356.0	0.288
									100	13.98	33.98		25.424	256.4	0.366
									125	13.78	34.31		25.720	228.3	0.427
									150	12.79	34.65		26.183	184.2	0.480
									200	11.60	34.64		26.404	163.2	0.569
									250	10.70	34.61		26.545	149.8	0.649
									300	9.98	34.59		26.655	139.4	0.725
									400	8.52	34.49		26.815	124.2	0.864
									500	7.29	34.48		26.990	107.7	0.987
									600	6.58	34.49		27.096	97.6	1.098
									700	5.85	34.47		27.175	90.1	1.201
									800	5.18	34.49		27.272	80.9	1.296
									1000	4.30	34.54		27.411	67.8	1.464

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 153050

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
21 46.0N	112 13.0W	2/17/72	0542 GMT	3169M	320	4KT		

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
									0	20.89	34.36		24.058	386.5	0.000
									10	20.89	34.36		24.058	386.5	0.039
									20	20.90	34.36		24.055	386.8	0.077
									30	20.83	34.36		24.074	385.0	0.116
									50	18.85	33.94		24.271	366.2	0.191
									75	16.25	33.67		24.689	326.3	0.279
									100	13.41	33.74		25.356	262.9	0.353
									125	12.31	33.97		25.751	225.3	0.414
									150	12.04	34.30		26.058	196.1	0.468
									200	11.59	34.58		26.360	167.4	0.561
									250	10.84	34.61		26.520	152.2	0.644
									300	9.99	34.54		26.615	143.3	0.721
									400	8.70	34.50		26.795	126.2	0.862
									500	7.45	34.47		26.959	110.6	0.989
									600	6.48	34.48		27.101	97.1	1.101
									700	5.61	34.47		27.205	87.3	1.202
									800	5.03	34.46		27.282	80.0	1.295
									1000	4.24	34.53		27.409	67.9	1.461

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 153050

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
21 46.0N	112 13.0W	2/17/72	0639 GMT	3169M	320	4KT		

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
0	20.85	34.368	5.49	0.34	2.	0.00	0.0	384.9	0	20.85	34.368	5.49	24.075	384.9	0.000
10	20.85	34.364	5.38	0.35	2.	0.00	0.0	385.2	10	20.85	34.364	5.38	24.071	385.2	0.039
30	20.87	34.361	5.37	0.33	2.	0.06	0.0	385.9	20	20.86	34.363	5.38	24.068	385.5	0.077
55	19.39	34.072	5.62	0.27	2.	0.00	0.0	369.7	30	20.87	34.361	5.37	24.064	385.9	0.116
70	17.28	33.847	5.66	0.35	3.	0.07	0.2	336.3	50	19.85	34.186	5.57	24.200	373.0	0.192
85	14.50	33.613	5.21	0.65	5.	0.11	2.4	293.7	75	16.30	33.742	5.58	24.732	322.3	0.279
100	13.31	33.793	3.96	1.16	11.	0.02	11.2	257.1	100	13.31	33.793	3.96	25.417	257.1	0.352
130	12.53	34.147	2.28	1.96	21.	0.04	20.9	216.4	125	12.59	34.093	2.51	25.791	221.5	0.413
155	11.88	34.400	1.19	2.47	31.	0.01	26.8	185.9	150	11.99	34.358	1.37	26.111	191.1	0.465
179	11.71	34.504	0.77	2.59	33.	0.03	28.4	175.2	200	11.58	34.580	0.52	26.361	167.3	0.557
214	11.46	34.614	0.40	2.78		0.00	27.8	162.6	250	10.76	34.603	0.38	26.527	151.5	0.639
278	10.15	34.562	0.36	2.83	43.	0.00	29.2	144.2	300	9.85	34.554	0.34	26.650	139.9	0.715
378	8.96	34.530	0.26	3.01	52.	0.03	31.8	127.9	400	8.68	34.520	0.24	26.813	124.4	0.854
476	7.74	34.489	0.21	3.16	64.	0.00	34.9	113.1	500	7.49	34.488	0.21	26.967	109.8	0.979
608	6.50	34.494	0.22	3.30	79.	0.08	39.8	96.3	600	6.57	34.494	0.22	27.100	97.2	1.092
760	5.34	34.495	0.28	3.41	93.	0.00		82.3	700	5.76	34.494	0.25	27.205	87.3	1.193
905	4.58	34.512	0.36	3.42		0.00	42.8	72.8	800	5.10	34.499	0.30	27.288	79.4	1.285
1107	3.90	34.542	0.62	3.39		0.05	44.7	63.6	1000	4.21	34.527	0.46	27.410	67.9	1.451

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 153060

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
21 27.0N	112 50.5W	2/17/72	1129 GMT	3834M	350	12KT		

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
									0	20.46	34.32		24.142	378.4	0.000
									10	20.27	34.29		24.170	375.8	0.038
									20	19.80	34.22		24.240	369.1	0.075
									30	19.20	34.07		24.281	365.2	0.112
									50	18.13	33.92		24.434	350.6	0.184
									75	15.16	33.56		24.849	311.1	0.267
									100	13.30	33.71		25.355	263.0	0.339
									125	12.14	34.02		25.822	218.5	0.400
									150	11.15	34.20		26.146	187.8	0.452
									200	11.36	34.58		26.402	163.4	0.542
									250	10.57	34.55		26.522	152.1	0.623
									300	9.84	34.57		26.664	138.6	0.699
									400	8.33	34.48		26.837	122.2	0.836
									500	7.19	34.44		26.973	109.3	0.959
									600	6.45	34.46		27.090	98.2	1.071
									700	5.84	34.47		27.176	90.0	1.174
									800	5.32	34.50		27.263	81.7	1.270
									1000	4.33	34.53		27.400	68.8	1.440

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 157010

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
22 32.0N	109 23.0W	2/19/72	0007 GMT	2980M	080	7KT	0	080 4 4

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	21.18	34.69		24.229	370.1	0.000
10	21.04	34.68		24.260	367.2	0.037
20	20.90	34.71		24.320	361.4	0.073
30	20.71	34.78		24.425	351.5	0.109
50	20.48	34.83		24.524	342.0	0.179
75	17.73	34.90		25.280	270.0	0.256
100	15.24	34.82		25.799	220.7	0.318
125	13.46	34.76		26.133	189.0	0.370
150	12.78	34.76		26.270	176.0	0.416
200	12.00	34.77		26.430	160.8	0.503
250	11.26	34.72		26.529	151.3	0.584
300	10.54	34.68		26.628	142.0	0.660
400	8.96	34.58		26.816	124.1	0.800
500	7.50	34.53		26.999	106.8	0.924
600	6.63	34.51		27.105	96.8	1.034
700	5.79	34.51		27.214	86.4	1.135
800	5.26	34.52		27.286	79.6	1.227
1000	4.35	34.55		27.413	67.5	1.394

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 157015

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
22 22.5N	109 42.0W	2/18/72	2105 GMT	3169M	070	4KT	0	070 3 4

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	21.60	34.72		24.137	378.9	0.000
10	21.42	34.76		24.217	371.3	0.038
20	21.29	34.82		24.298	363.6	0.074
30	20.94	34.80		24.378	355.9	0.110
50	19.68	34.81		24.720	323.3	0.179
75	16.57	34.65		25.366	261.9	0.252
100	14.40	34.69		25.882	212.8	0.312
125	13.24	34.71		26.139	188.4	0.363
150	12.85	34.79		26.279	175.1	0.410
200	11.81	34.77		26.466	157.4	0.495
250	11.13	34.72		26.553	149.1	0.574
300	10.42	34.68		26.649	140.0	0.650
400	8.85	34.57		26.826	123.2	0.788
500	7.69	34.53		26.972	109.4	0.913
600	6.72	34.51		27.093	97.9	1.025
700	5.93	34.51		27.196	88.1	1.128
800	5.28	34.52		27.284	79.8	1.221
1000	4.43	34.55		27.405	68.4	1.389

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 157020

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
22 13.0N	110 00.0W	2/18/72	1700 GMT	3169M	090	5KT	5	090 4 6

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	21.05	34.57		24.174	375.4	0.000
10	21.03	34.58		24.187	374.2	0.037
20	21.03	34.58		24.187	374.2	0.075
30	21.02	34.58		24.189	373.9	0.112
50	17.84	34.10		24.643	330.7	0.183
75	14.28	34.11		25.461	252.9	0.257
100	14.18	34.54		25.813	219.4	0.316
125	13.08	34.54		26.040	197.8	0.369
150	12.54	34.60		26.193	183.2	0.418
200	11.96	34.70		26.383	165.2	0.507
250	10.83	34.60		26.514	152.8	0.589
300	10.01	34.60		26.658	139.1	0.665
400	8.73	34.56		26.837	122.2	0.803
500	7.55	34.52		26.984	108.2	0.926
600	6.62	34.51		27.106	96.6	1.037
700	5.92	34.52		27.205	87.2	1.138
800	5.35	34.53		27.284	79.8	1.231
1000	4.42	34.56		27.414	67.5	1.399

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 157020

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
22 13.0N	110 00.0W	2/18/72	1759 GMT	3169M	090	5KT	0	090 4 6

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
0	21.10	34.576	5.30	0.35	2.	0.00	0.0	376.3	0	21.10	34.576	5.30	24.165	376.3	0.000
10	21.00	34.580	5.32	0.35	2.	0.03	0.0	373.4	10	21.00	34.580	5.32	24.195	373.4	0.038
30	20.99	34.583	5.34	0.38	2.	0.00	0.1	372.9	20	21.00	34.583	5.33	24.197	373.2	0.075
56	19.63	34.444	4.91	0.65	4.	0.28	1.4	348.6	30	20.99	34.583	5.34	24.200	372.9	0.112
71	16.71	34.206	3.25	1.91	11.	0.11	10.3	297.4	50	19.94	34.475	5.01	24.396	354.2	0.185
86	14.20	34.114	2.90	1.65U	14.	0.06	15.6	251.0	75	15.89	34.146	3.17	25.135	283.9	0.266
101	14.35	34.544	0.90	2.48	24.	0.01	23.7	222.5	100	14.34	34.522	1.04	25.765	224.0	0.330
131	12.98	34.564	0.66	2.59	29.	0.00	26.8	194.2	125	13.15	34.560	0.71	26.041	197.7	0.383
156	12.51	34.631	0.40	2.62	32.	0.02	26.9	180.4	150	12.60	34.613	0.45	26.190	183.5	0.432
181	12.06	34.678	0.36	2.53U	35.	0.02	26.9	168.7	200	11.89	34.695	0.32	26.392	164.3	0.521
215	11.76	34.698	0.29	2.81	36.	0.03	25.9	161.8	250	11.05	34.678	0.23	26.535	150.8	0.602
279	10.39	34.651	0.20	2.57U	42.	0.15	26.0	141.6	300	10.06	34.635	0.19	26.675	137.5	0.678
376	9.06	34.573	0.15	3.09	52.	0.01	30.7	126.2	400	8.72	34.559	0.16	26.838	122.1	0.814
473	7.74	34.529	0.21	3.06	64.	0.03	32.0	110.2	500	7.43	34.523	0.20	27.004	106.3	0.937
603	6.43	34.513	0.15	3.36	81.	0.00	30.9U	94.0	600	6.45	34.513	0.15	27.131	94.3	1.045
753	5.52	34.515	0.23A	3.40	92.	0.02	41.8	82.9	700	5.80	34.514	0.19	27.216	86.3	1.145
898	4.80	34.525	0.40A	3.46	103.	0.01	44.1	74.1	800	5.27	34.518	0.28	27.283	79.9	1.237
1108	4.01	34.551	0.53		120.	0.08		64.0	1000	4.38	34.537	0.48	27.400	68.8	1.405

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 157025

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
22 02.5N	110 19.0W	2/18/72	1409 GMT	3263M	360	12KT	0	360 2 3

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
									0	21.08	34.59		24.181	374.7	0.000
									10	21.08	34.59		24.181	374.7	0.037
									20	21.05	34.59		24.189	374.0	0.075
									30	20.91	34.58		24.219	371.1	0.112
									50	19.79	34.47		24.433	350.7	0.185
									75	16.98	34.31		25.009	295.8	0.266
									100	13.24	34.10		25.668	233.2	0.333
									125	12.79	34.42		26.005	201.1	0.388
									150	12.49	34.63		26.226	180.1	0.436
									200	12.02	34.74		26.402	163.4	0.525
									250	11.43	34.72		26.498	154.3	0.607
									300	10.60	34.65		26.594	145.2	0.685
									400	9.14	34.57		26.779	127.6	0.829
									500	7.69	34.53		26.972	109.4	0.955
									600	6.78	34.51		27.085	98.7	1.068
									700	5.96	34.50		27.185	89.2	1.171
									800	5.37	34.51		27.265	81.6	1.266
									1000	4.38	34.55		27.410	67.8	1.435

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 157030

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
21 52.5N	110 37.5W	2/16/72	1103 GMT	3169M	340	10KT		

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
									0	22.03	34.53		23.873	404.0	0.000
									10	22.03	34.54		23.881	403.3	0.040
									20	21.94	34.52		23.891	402.4	0.081
									30	21.80	34.51		23.922	399.4	0.121
									50	21.70	34.49		23.935	398.2	0.201
									75	19.22	34.13		24.321	361.4	0.296
									100	14.25	34.09		25.452	253.7	0.374
									125	14.24	34.57		25.823	218.4	0.434
									150	12.79	34.53		26.090	193.1	0.486
									200	11.90	34.66		26.379	165.6	0.578
									250	11.18	34.66		26.498	154.4	0.661
									300	10.51	34.64		26.602	144.4	0.739
									400	8.93	34.54		26.790	126.6	0.881
									500	7.65	34.50		26.954	111.1	1.008
									600	6.63	34.46		27.066	100.5	1.123
									700	5.89	34.47		27.170	90.6	1.228
									800	5.31	34.50		27.265	81.6	1.323
									1000	4.43	34.54		27.397	69.1	1.494

A) THE OXYGEN SAMPLES AT 753 AND 898 METERS APPEAR TO HAVE BEEN REVERSED. THEY ARE ASSUMED TO NOW BE IN THE CORRECT ORDER.

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 157035

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
21 42.5N	110 56.0W	2/18/72	0745 GMT	2980M	330	12KT		

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
									0	22.80	34.63		23.731	417.6	0.000
									10	22.80	34.63		23.731	417.6	0.042
									20	22.77	34.62		23.733	417.5	0.084
									30	22.05	34.60		23.921	399.5	0.125
									50	21.30	34.49		24.045	387.7	0.204
									75	17.56	34.05		24.672	327.9	0.294
									100	14.44	34.47		25.704	229.8	0.364
									125	13.36	34.58		26.014	200.3	0.418
									150	12.34	34.63		26.256	177.3	0.467
									200	11.67	34.69		26.430	160.8	0.553
									250	10.93	34.67		26.551	149.3	0.633
									300	10.35	34.62		26.615	143.2	0.710
									400	9.00	34.56		26.794	126.2	0.852
									500	7.82	34.52		26.945	112.0	0.979
									600	6.60	34.49		27.066	100.4	1.094
									700	6.07	34.49		27.163	91.3	1.199
									800	5.38	34.50		27.256	82.4	1.296
									1000	4.44	34.53		27.388	70.0	1.468

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 157035

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
21 42.5N	110 56.0W	2/18/72	0833 GMT	2980M	330	12KT		

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
2	22.81	34.619	5.27	0.34	2.	0.00	0.0	418.7	0	22.81	34.619	5.27	23.720	418.7	0.000
12	22.79	34.619	5.11	0.34	2.	0.00	0.0	418.1	10	22.79	34.620	5.13	23.725	418.2	0.042
31	22.10	34.597	5.19	0.34	2.	0.00	0.0	401.1	20	22.55	34.610	5.14	23.788	412.2	0.083
56	21.32		5.23	0.37	2.	0.03	0.0		30	22.15	34.599	5.19	23.892	402.2	0.124
70	19.93	34.305	4.98	0.49	3.	0.18	1.0	366.2	50	21.60	34.532	5.22	23.994	392.5	0.203
85	16.98	34.024	4.06	0.94	7.	0.42	6.7	316.7	75	19.04	34.192	4.77	24.415	352.5	0.296
99	14.14	34.209	2.19	1.85	17.	0.07	18.2	242.8	100	14.13	34.223	2.10	25.579	241.6	0.371
129	13.74	34.591	0.56	2.52	27.	0.06	26.2	206.9	125	13.79	34.541	0.64	25.894	211.7	0.428
153	12.57	34.630	0.33	2.60	32.	0.01	27.7	181.6	150	12.72	34.632	0.36	26.182	184.3	0.479
178	12.05	34.670	0.28	2.72	34.	0.06	27.7	169.1	200	11.61	34.684	0.21	26.435	160.3	0.567
212	11.40	34.685	0.18	2.75	38.	0.03	25.7	156.4	250	10.95	34.681	0.17	26.556	148.8	0.647
277	10.68	34.667	0.17	2.87	41.	0.01	26.5	145.3	300	10.37	34.652	0.17	26.636	141.2	0.722
375	9.33	34.595	0.16	3.300	51.	0.02	29.2	128.7	400	9.04	34.562	0.16	26.804	125.3	0.863
474	8.23	34.542	0.17	3.18	59.	0.04	32.7	116.2	500	7.93	34.531	0.21	26.936	112.7	0.990
607	6.78	34.499	0.35	3.28	76.	0.04	37.8	99.5	600	6.85	34.501	0.34	27.067	100.3	1.106
757	5.64	34.497	0.23	3.580	91.	0.03	41.8	85.7	700	6.02	34.495	0.29	27.172	90.4	1.211
902	4.91	34.511	0.28	3.43	104.	0.10	40.7	76.4	800	5.40	34.501	0.24	27.254	82.6	1.307
1102	4.07	34.535	0.57	3.37	121.	0.10	43.8	65.8	1000	4.47	34.523	0.39	27.378	70.9	1.480

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 157040

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
21 32.5N	111 14.5W	2/18/72	0432 GMT	3357M	330	4KT		

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
									0	22.30	34.61		23.858	405.5	0.000
									10	22.27	34.61		23.867	404.7	0.041
									20	22.23	34.61		23.878	403.6	0.081
									30	22.22	34.61		23.881	403.3	0.121
									50	21.86	34.52		23.913	400.3	0.202
									75	17.28	34.11		24.785	317.2	0.292
									100	14.37	34.46		25.711	229.1	0.361
									125	12.69	34.54		26.118	190.4	0.414
									150	12.34	34.63		26.256	177.3	0.461
									200	11.80	34.70		26.413	162.4	0.548
									250	11.00	34.66		26.530	151.3	0.629
									300	10.32	34.63		26.628	142.0	0.706
									400	9.03	34.56		26.789	126.7	0.848
									500	7.72	34.51		26.951	111.3	0.975
									600	6.89	34.51		27.069	100.1	1.089
									700	6.10	34.50		27.167	90.9	1.194
									800	5.51	34.51		27.248	83.2	1.291
									1000	4.58	34.53		27.372	71.4	1.466

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 157050

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
21 12.5N	111 51.5W	2/17/72	2310 GMT	3263M	270	6KT	0	270 4 3

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	22.85	34.60		23.694	421.1	0.000
10	22.75	34.58		23.708	419.8	0.042
20	22.06	34.53		23.865	404.8	0.083
30	22.01	34.54		23.887	402.8	0.124
50	21.89	34.52		23.905	401.0	0.205
75	20.20	34.11		24.052	387.1	0.304
100	15.72	34.33		25.315	266.7	0.386
125	13.61	34.46		25.870	213.9	0.447
150	12.79	34.51		26.075	194.5	0.499
200	11.93	34.67		26.365	166.9	0.591
250	11.01	34.66		26.529	151.4	0.674
300	10.23	34.63		26.643	140.5	0.750
400	8.61	34.55		26.848	121.1	0.888
500	7.68	34.52		26.965	110.0	1.011
600	6.77	34.50		27.078	99.3	1.125
700	6.03	34.51		27.183	89.3	1.228
800	5.37	34.52		27.273	80.8	1.323
1000	4.54	34.55		27.393	69.5	1.494

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 157060

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
20 52.0N	112 29.0W	2/17/72	1650 GMT	2607M	350	5KT	1	330 5 5

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	O2	SIGT	DT	DD
0	22.32	34.52		23.785	412.5	0.000
10	22.29	34.51		23.785	412.5	0.041
20	22.10	34.50		23.831	408.1	0.082
30	21.90	34.47		23.864	404.9	0.123
50	19.68	34.09		24.173	375.5	0.201
75	16.33	33.85		24.809	314.9	0.288
100	13.75	34.00		25.487	250.4	0.360
125	12.76	34.32		25.934	207.9	0.418
150	11.93	34.35		26.118	190.4	0.468
200	11.62	34.60		26.370	166.5	0.560
250	10.85	34.63		26.534	150.9	0.642
300	10.12	34.61		26.647	140.2	0.717
400	8.94	34.55		26.796	126.1	0.858
500	7.48	34.49		26.971	109.5	0.984
600	6.69	34.48		27.073	99.8	1.097
700	5.94	34.49		27.179	89.7	1.201
800	5.35	34.50		27.260	82.1	1.296
1000	4.46	34.53		27.386	70.2	1.468

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 157060

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
20 52.0N	112 29.0W	2/17/72	1746 GMT	2607M	350	5KT	1	330 5 5

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT
0	22.42	34.515	5.18	0.32	2.	0.00	0.1	415.6
10	22.33	34.512	5.13	0.31	2.	0.00	0.1	413.4
30	21.94	34.482	5.20	0.34	2.	0.00	2.2	405.1
55	20.12	34.228	5.48	0.34	2.	0.00	0.2	376.5
70	18.51	34.059	4.89	0.59	4.	0.16	2.6	349.5
85	16.24	33.901	4.49	0.89	7.	0.31	5.8	309.3
100	14.43	33.976	3.43	1.33	12.	0.04	12.7	265.7
129	12.91	34.387	1.36	2.28	26.	0.01	24.3	205.8
154	11.91	34.400	1.11	2.38	30.	0.01	26.2	186.4
179	11.89	34.584	0.47	2.57	33.	0.00	28.3	172.5
213	11.43	34.638		2.77	36.	0.01	28.1	160.3
276	10.53	34.643	0.12	2.87	41.	0.02	25.4U	144.5
372	9.14	34.571	0.17	3.00	52.	0.01	30.3	127.6
471	7.73	34.496	0.17	3.14	63.	0.00	34.6	112.5
603	6.60	34.489	0.18	3.30	77.	0.00	37.8	98.0
753	5.47	34.505	0.21	3.40	93.	0.00	43.0	83.1
900	4.81	34.514	0.27	3.45	103.	0.02	44.1	75.1
1109	4.08	34.540	0.51	3.41	118.	0.01	40.2	65.6

Z	T	S	O2	SIGT	DT	DD
0	22.42	34.515	5.18	23.752	415.6	0.000
10	22.33	34.512	5.13	23.776	413.4	0.041
20	22.21	34.510	5.17	23.807	410.4	0.083
30	21.94	34.482	5.20	23.862	405.1	0.124
50	20.59	34.290	5.42	24.085	383.9	0.203
75	17.76	33.992	4.78	24.578	337.0	0.293
100	14.43	33.976	3.43	25.326	265.7	0.369
125	13.03	34.336	1.59	25.891	211.9	0.430
150	12.03	34.403	1.15	26.140	188.3	0.481
200	11.64	34.634	0.39	26.392	164.4	0.571
250	10.91	34.652	0.21	26.540	150.3	0.652
300	10.18	34.630	0.13	26.651	139.8	0.728
400	8.72	34.546	0.17	26.828	123.0	0.866
500	7.44	34.490	0.17	26.976	109.0	0.990
600	6.62	34.489	0.18	27.089	98.3	1.103
700	5.83	34.499	0.20	27.199	87.9	1.205
800	5.23	34.509	0.22	27.281	80.1	1.298
1000	4.43	34.525	0.36	27.385	70.2	1.468

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 1576040

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
22 48.0N	108 55.0W	2/19/72	0554 GMT	2980M	330	10KT		

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	SIGT	DT	DD
0	21.62	34.62	24.056	386.7	0.000
10	21.63	34.63	24.060	386.2	0.039
20	21.60	34.62	24.061	386.2	0.077
30	21.20	34.60	24.156	377.1	0.116
50	19.66	35.00	24.870	309.1	0.184
75	18.79	35.17	25.223	275.4	0.258
100	15.51	34.81	25.731	227.2	0.322
125	13.46	34.79	26.156	186.8	0.374
150	12.58	34.79	26.333	170.0	0.420
200	11.81	34.77	26.466	157.4	0.504
250	11.21	34.74	26.554	149.0	0.583
300	10.58	34.69	26.629	141.9	0.659
400	9.01	34.57	26.800	125.6	0.800
500	7.48	34.50	26.979	108.7	0.925
600	6.60	34.51	27.109	96.4	1.036
700	5.85	34.51	27.206	87.2	1.137
800	5.39	34.52	27.271	81.0	1.231
1000	4.52	34.55	27.395	69.3	1.401

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 1576040

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
22 48.0N	108 55.0W	2/19/72	0709 GMT	2980M	330	10KT		

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT
0	21.63	34.621	5.25	0.36	2.	0.00	0.0	386.9
10	21.61	34.622	5.23	0.35	2.	0.09	0.0	386.3
29	21.49	34.626	5.20	0.39	2.	0.00	0.1	382.8
54	19.66	34.977	5.06	0.89	5.	0.36	3.4	310.7
69	19.49	35.010	5.00	0.96	5.	0.39	4.2	304.1
84	18.65	35.207	4.50	1.53	11.	0.04	10.4	269.4
99	16.36	34.800	1.78	2.22	22.	0.05	20.0	246.3
129	13.63	34.777	0.58	2.72	33.	0.02	25.7	191.1
154	12.71	34.777	0.18	2.64	31.	0.95	25.2	173.4
179	12.25	34.780	0.15	2.65	32.	2.81	24.9	164.6
213	11.81	34.771	0.17	2.68	34.	2.81	24.1	157.3
277	10.98	34.722	0.15	2.80	38.	2.43	23.7	146.3
375	9.56	34.630	0.15	2.98	44.	0.63	26.6	129.7
474	7.76	34.545	0.18	3.15	65.	0.02	32.2	109.3
606	6.39	34.519	0.16	3.29	79.	0.02	36.7	93.1
757	5.47	34.513	0.20	3.41	92.	0.00	41.4	82.5
903	4.86	34.524	0.26	3.40	102.	0.03		74.9
1107	4.05	34.548	0.50	3.37	117.			64.7

Z	T	S	SIGT	DT	DD
0	21.63	34.621	24.054	386.9	0.000
10	21.61	34.622	24.060	386.3	0.039
20	21.55	34.625	24.079	384.5	0.077
30	21.42	34.640	24.126	379.9	0.116
50	19.95	34.917	24.731	322.3	0.186
75	19.28	35.117	25.057	291.2	0.263
100	16.23	34.790	25.551	244.3	0.331
125	13.87	34.752	26.041	197.7	0.387
150	12.80	34.778	26.279	175.1	0.435
200	11.97	34.776	26.441	159.7	0.521
250	11.33	34.746	26.536	150.7	0.601
300	10.67	34.702	26.622	142.6	0.677
400	9.09	34.605	26.813	124.4	0.818
500	7.42	34.536	27.015	105.3	0.941
600	6.43	34.520	27.138	93.6	1.049
700	5.76	34.514	27.220	85.8	1.148
800	5.27	34.516	27.281	80.1	1.240
1000	4.47	34.534	27.387	69.9	1.410

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 1576070

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
23 02.5N	108 27.0W	2/19/72	1123 GMT	2602M	330	9KT		

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	SIGT	DT	DD
0	20.31	34.84	24.577	336.9	0.000
10	20.31	34.84	24.577	336.9	0.034
20	20.31	34.85	24.585	336.2	0.067
30	19.90	34.92	24.746	320.8	0.100
50	18.12	35.03	25.284	269.7	0.160
75	17.15	35.01	25.504	248.7	0.225
100	13.94	34.78	26.048	197.0	0.281
125	13.23	34.79	26.203	182.4	0.330
150	12.54	34.76	26.333	170.0	0.375
200	11.74	34.76	26.471	156.9	0.458
250	11.10	34.71	26.551	149.3	0.538
300	10.23	34.65	26.659	139.0	0.613
400	8.79	34.58	26.843	121.6	0.750
500	7.27	34.52	27.024	104.4	0.871
600	6.49	34.52	27.131	94.3	0.979
700	5.92	34.51	27.197	88.0	1.079
800	5.25	34.52	27.288	79.5	1.172
1000	4.55	34.55	27.392	69.6	1.341

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 1576100

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
23 18.0N	107 58.0W	2/19/72	1552 GMT	2509M	340	10KT	0	340 1 3

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT

Z	T	S	SIGT	DT	DD
0	20.64	34.85	24.497	344.6	0.000
10	20.63	34.85	24.499	344.3	0.034
20	20.63	34.85	24.499	344.3	0.069
30	20.17	34.80	24.584	336.3	0.103
50	19.05	34.99	25.020	294.8	0.166
75	16.69	34.72	25.392	259.4	0.236
100	14.31	34.74	25.939	207.4	0.295
125	13.36	34.72	26.122	190.0	0.346
150	12.88	34.76	26.250	177.9	0.393
200	11.90	34.73	26.418	161.9	0.480
250	11.36	34.72	26.518	152.4	0.561
300	10.60	34.67	26.596	145.1	0.639
400	9.24	34.60	26.787	126.9	0.782
500	8.00	34.55	26.941	112.3	0.910
600	6.94	34.53	27.078	99.3	1.025
700	6.08	34.52	27.185	89.2	1.129
800	5.51	34.52	27.256	82.4	1.224
1000	4.66	34.55	27.379	70.8	1.398

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 157G100

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
23 18.0N	107 58.0W	2/19/72	1648 GMT	2509M	340	3KT	0	340 4 3

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
0	20.73	34.843	5.44	0.52	1.	0.00	0.0	347.4	0	20.73	34.843	5.44	24.467	347.4	0.000
10	20.61	34.848	5.46	0.52	1.	0.00	0.0	344.0	10	20.61	34.848	5.46	24.503	344.0	0.035
30	19.98	34.811	5.37	0.61	2.	0.03	0.0	330.7	20	20.35	34.824	5.42	24.555	339.0	0.069
55	18.74	34.974	4.85	1.02	4.	0.21	0.0	288.5	30	19.98	34.811	5.37	24.643	330.7	0.102
70	17.58	34.961	3.00	1.89	17.	0.01	3.9	262.1	50	19.04	34.941	4.95	24.984	296.2	0.166
85	15.07	34.573	1.03	2.18	23.	0.03	22.2	235.2	75	16.74	34.816	2.27	25.454	253.5	0.235
100	14.03	34.734	0.55	2.28	30.	0.01	21.4	202.2	100	14.03	34.734	0.55	25.994	202.2	0.293
130	13.12	34.765	0.55	2.65	33.	0.01	21.9	182.1	125	13.20	34.775	0.55	26.198	182.8	0.342
156	12.82	34.773	0.35		35.	0.03	19.8	175.8	150	12.88	34.772	0.40	26.260	176.9	0.387
180	12.38	34.786	0.28	2.560	36.	0.02	20.6	166.6	200	11.97	34.776	0.27	26.439	159.9	0.474
214	11.70	34.764	0.27	2.74	40.	0.04	22.3	155.9	250	11.18	34.733	0.23	26.554	149.0	0.554
279	10.82	34.70	0.19		43.	0.06		144.9	300	10.52	34.685	0.17	26.635	141.3	0.630
375	9.45	34.622	0.14	2.92	52.	0.01	24.5	128.6	400	9.12	34.607	0.14	26.810	124.7	0.770
471	8.25	34.568	0.15		64.	0.04	22.30	114.5	500	7.92	34.557	0.15	26.958	110.7	0.896
600	6.91	34.531	0.17	3.01	79.	0.00		98.8	600	6.91	34.531	0.17	27.083	98.8	1.010
749	5.70	34.521	0.23	3.010	93.	0.01	35.6	84.6	700	6.05	34.522	0.21	27.190	88.7	1.113
894	5.00	34.521	0.28	3.31	105.	0.00	40.3	76.6	800	5.42	34.521	0.25	27.267	81.4	1.208
1100	4.24	34.544	0.39		120.	0.06		66.9	1000	4.57	34.531	0.33	27.373	71.4	1.381

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 157G130

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
23 32.0N	107 31.0W	2/19/72	2123 GMT	975M	310	8KT	2	310 2 2

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
									0	20.45	34.92		24.601	334.7	0.000
									10	19.45	34.94		24.879	308.2	0.032
									20	19.26	34.96		24.943	302.1	0.063
									30	18.82	34.95		25.048	292.1	0.093
									50	17.70	35.04		25.395	259.1	0.148
									75	16.05	34.69		25.517	247.5	0.212
									100	13.65	34.66		26.016	200.1	0.268
									125	13.02	34.71		26.183	184.2	0.317
									150	12.43	34.74		26.323	170.9	0.362
									200	11.90	34.75		26.433	160.5	0.447
									250	11.35	34.71		26.505	153.6	0.529
									300	10.64	34.68		26.610	143.6	0.606
									400	9.24	34.60		26.787	126.9	0.749
									500	7.84	34.54		26.957	110.7	0.876
									600	6.95	34.52		27.069	100.2	0.991
									700	6.15	34.51		27.168	90.8	1.096
									800	5.63	34.53		27.250	83.1	1.193

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 157G150

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
23 43.0N	107 12.0W	2/20/72	0035 GMT	82M	330	8KT	1	310 1 2

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
									0	19.71	34.98		24.842	311.7	0.000
									10	19.36	35.00		24.948	301.6	0.031
									20	18.86	35.03		25.098	287.3	0.060
									30	18.25	35.00		25.229	274.9	0.088
									50	15.00	34.50		25.606	239.1	0.140

RV DAVID STARR JORDAN CALCOFI CRUISE 7202 157G150

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
23 43.0N	107 12.0W	2/20/72	0105 GMT	82M	330	8KT	1	310 1 2

Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
1	19.51	34.957	6.00	0.79	2.	0.05	0.6	308.5	0	19.51	34.957	6.00	24.876	308.5	0.000
12	19.14	34.948	5.99	0.76	2.	0.05	0.5	300.0	10	19.22	34.951	5.99	24.946	301.9	0.031
22	18.63	34.929	5.26	1.01	3.	0.33	3.5	289.1	20	18.74	34.928	5.45	25.053	291.7	0.060
32	18.19	35.024	4.15	1.57	8.	0.98	9.4	271.7	30	18.31	35.008	4.40	25.219	275.9	0.089
51	14.65	34.769	0.86	2.60	26.	0.08	24.2	212.2	50	14.92	34.792	1.07	25.847	216.2	0.138

RV ALEXANDER AGASSIZ

CALCOFI CRUISE 7202

TEN METER DATA

60.050 02/27/72 0221GMT 37 57.5N 122 53.0W
BOTTOM 45M WIND 330 13KT WEATHER 1
DOMINANT WAVES 310 03 03

60.055 02/27/72 0600GMT 37 48.0N 123 15.5W
BOTTOM 97M WIND 070 08KT WEATHER 4
DOMINANT WAVES 45

60.065 02/27/72 1430GMT 37 25.5N 124 04.0W
BOTTOM 3704M WIND 200 07KT WEATHER 2
DOMINANT WAVES 250 03 04

63.050 02/26/72 2214GMT 37 23.5N 122 28.0W
BOTTOM 26M WIND 010 15KT WEATHER 1
DOMINANT WAVES 290 02 04

63.052 02/26/72 2014GMT 37 19.0N 122 36.5W
BOTTOM 86M WIND 090 08KT WEATHER 4
DOMINANT WAVES 240 03 07

63.055 02/26/72 1817GMT 37 13.0N 122 50.0W
BOTTOM 288M WIND 040 02KT WEATHER 4
DOMINANT WAVES 230 02 05

63.065 02/26/72 1107GMT 36 52.5N 123 32.0W
BOTTOM 3268M WIND 090 02KT WEATHER
DOMINANT WAVES 49

63.070 02/26/72 0657GMT 36 41.5N 123 56.0W
BOTTOM 3870M WIND 200 06KT WEATHER
DOMINANT WAVES 49

67.048 02/25/72 0130GMT 36 51.0N 122 00.5W
BOTTOM 75M WIND 290 15KT WEATHER 1
DOMINANT WAVES 280 04 08

67.055 02/25/72 0600GMT 36 38.5N 122 25.5W
BOTTOM 2222M WIND 340 05KT WEATHER 1
DOMINANT WAVES

67.065 02/25/72 2205GMT 36 19.0N 123 08.5W
BOTTOM 2832M WIND 320 08KT WEATHER 2
DOMINANT WAVES 320 03 06

67.070 02/26/72 0130GMT 36 08.0N 123 29.5W
BOTTOM 3493M WIND 300 04KT WEATHER 1
DOMINANT WAVES 280 05 08

70.051 02/24/72 2010GMT 36 10.5N 121 46.0W
BOTTOM 403M WIND 010 15KT WEATHER 1
DOMINANT WAVES 280 04 09

Z	T	S	O2	DT
10	10.72	33.239	8.13	251.4
10	10.54	33.146	6.73	255.3
10	11.20	32.984	4.21	278.4
10	11.54	33.282	7.82	262.2
10	11.34	33.226	7.12	262.9
10	11.80	33.472	6.57	252.8
10	11.69	33.337	6.43	260.8
10	11.70	32.801	6.44	300.5
10	11.64	33.078	6.20	279.0
10	11.39	33.168	5.65	268.0
10	11.70	33.457	6.70	252.1
10	11.76		6.29	
10	11.68		6.44	

RV ALEXANDER AGASSIZ

CALCOFI CRUISE 7202

TEN METER DATA

70.065	02/24/72	0715GMT	35 43.0N	122 45.0W	BOTTOM 2456M WIND 310 06KT WEATHER DOMINANT WAVES 49	Z	T	S	O2	DT
						10	12.08	33.143	6.16	282.0
70.070	02/24/72	0449GMT	35 33.0N	123 05.5W	BOTTOM 3830M WIND 360 06KT WEATHER 0 DOMINANT WAVES 49	10	11.82	32.981	6.49	289.3
70.090	02/23/72	1415GMT	34 53.0N	124 30.0W	BOTTOM 4212M WIND 260 08KT WEATHER 1 DOMINANT WAVES 290 08 09	10	12.42	32.911	5.99	305.3
73.050	02/22/72	0806GMT	35 37.0N	121 17.5W	BOTTOM 104M WIND 090 08KT WEATHER 6 DOMINANT WAVES 49	10	11.51	33.526	6.04	243.7
73.053	02/22/72	1114GMT	35 31.5N	121 28.5W	BOTTOM 744M WIND 020 07KT WEATHER 4 DOMINANT WAVES 49	10	11.84	33.508	6.53	250.9
73.065	02/22/72	2020GMT	35 06.0N	122 20.5W	BOTTOM 4014M WIND 170 06KT WEATHER 4 DOMINANT WAVES 290 10 09	10	12.51	33.339	5.69	275.4
73.070	02/22/72	2314GMT	34 57.0N	122 41.0W	BOTTOM 4053M WIND 200 04KT WEATHER 1 DOMINANT WAVES 220 08 07	10	11.55	32.908	6.33	290.0
73.080	02/23/72	0343GMT	34 38.5N	123 21.5W	BOTTOM 4147M WIND 020 07KT WEATHER DOMINANT WAVES 49	10	11.61	32.849	6.46	295.4
73.090	02/23/72	0930GMT	34 19.0N	123 04.0W	BOTTOM 3775M WIND 280 11KT WEATHER 0 DOMINANT WAVES 280 08 08	10	12.60	32.937	6.29	306.6
77.048	02/17/72	1908GMT	35 08.0N	120 43.0W	BOTTOM 24M WIND 210 10KT WEATHER 4 DOMINANT WAVES 300 02 09	10	11.32	33.567	5.95	237.4
77.055	02/17/72	1330GMT	34 54.5N	121 12.5W	BOTTOM 558M WIND 020 11KT WEATHER 0 DOMINANT WAVES 49	10	11.56	33.409	6.29	253.2
77.065	02/17/72	0620GMT	34 33.0N	121 54.0W	BOTTOM 3918M WIND 340 18KT WEATHER DOMINANT WAVES	10	12.93	33.377	6.11	280.4
77.070	02/17/72	0151GMT	34 25.0N	122 15.0W	BOTTOM 3957M WIND 350 18KT WEATHER 1 DOMINANT WAVES 340 11 06	10	12.39	33.342	6.37	273.0

		Z	T	S	O2	DT
77.080	02/16/72 2003GMT 34 05.0N 122 56.0W BOTTOM 4241M WIND 350 14KT WEATHER 1 DOMINANT WAVES 340 11 06	10	11.26	32.949	6.48	282.0
77.090	02/16/72 1425GMT 33 45.5N 123 39.0W BOTTOM 4864M WIND 360 23KT WEATHER 1 DOMINANT WAVES 360 10 05	10	11.60	32.926	6.37	289.5
80.051	02/13/72 1045GMT 34 26.0N 120 32.5W BOTTOM 101M WIND 310 10KT WEATHER DOMINANT WAVES 49	10	12.49	33.360	6.33	273.5
80.053	02/13/72 0725GMT 34 22.5N 120 40.5W BOTTOM 491M WIND 320 15KT WEATHER 0 DOMINANT WAVES 49	10	12.34	33.376	6.35	269.6
80.055	02/13/72 0536GMT 34 19.0N 120 48.5W BOTTOM 796M WIND 330 20KT WEATHER 0 DOMINANT WAVES	10	12.00	33.580	6.37	248.4
80.070	02/12/72 0520GMT 33 49.0N 121 51.0W BOTTOM 3657M WIND 350 15KT WEATHER DOMINANT WAVES 49	10	11.54	33.248	6.59	264.7
80.080	02/11/72 1435GMT 33 28.0N 122 31.0W BOTTOM 3977M WIND 140 03KT WEATHER 1 DOMINANT WAVES 240 08 10	10	11.57	33.169	6.56	271.1
82.047	02/13/72 1353GMT 34 15.0N 119 59.0W BOTTOM 565M WIND 150 04KT WEATHER 0 DOMINANT WAVES 49	10	12.66	33.516	6.60	265.2
83.040	02/13/72 1950GMT 34 13.5N 119 22.0W BOTTOM 22M WIND 300 04KT WEATHER 0 DOMINANT WAVES 270 03 06	10	12.56	33.517	6.82	263.2
83.051	02/13/72 0034GMT 33 52.0N 120 07.5W BOTTOM 108M WIND 310 18KT WEATHER 0 DOMINANT WAVES 310 02 05	10	12.62	33.480	6.40	267.1
83.055	02/12/72 2126GMT 33 44.0N 120 25.0W BOTTOM 999M WIND 350 10KT WEATHER 0 DOMINANT WAVES 310 07 09	10	12.38	33.464	6.43	262.4
83.070	02/12/72 0030GMT 33 14.5N 121 26.0W BOTTOM 3545M WIND 360 08KT WEATHER 1 DOMINANT WAVES 320 10 09	10	13.09	33.290	6.30	289.8
83.080	02/11/72 1930GMT 32 53.0N 122 08.0W BOTTOM 4193M WIND 050 09KT WEATHER 1 DOMINANT WAVES 350 05 08	10	12.20	33.279	6.51	274.2

		Z	T	S	O2	DT
83.090	02/11/72 0300GMT 32 36.5N 122 54.0W BOTTOM 4116M WIND 070 09KT WEATHER 1 DOMINANT WAVES 49	10	12.65	33.262	6.37	283.7
90.032	02/09/72 0156GMT 33 20.5N 118 02.5W BOTTOM 741M WIND 290 04KT WEATHER 4 DOMINANT WAVES 270 03 10	10	12.92	33.474		273.1
90.045	02/09/72 1157GMT 32 55.0N 118 56.0W BOTTOM 1692M WIND 280 07KT WEATHER DOMINANT WAVES	10	12.11	33.527	6.26	254.3
90.053	02/09/72 1745GMT 32 38.5N 119 28.0W BOTTOM 1276M WIND 290 06KT WEATHER 2 DOMINANT WAVES 330 04 10	10	12.64	33.440	6.31	270.4
90.070	02/10/72 0448GMT 32 06.0N 120 36.5W BOTTOM 3641M WIND 120 04KT WEATHER DOMINANT WAVES 49	10	13.06	33.274	6.32	290.4
90.090	02/10/72 1735GMT 31 21.0N 121 58.0W BOTTOM 3737M WIND 110 08KT WEATHER 1 DOMINANT WAVES 270 07 08	10	13.90	33.424	6.12	295.6

		Z	T	S	O2	DT
87.033	02/08/72 2146GMT 33 54.0N 118 29.5W BOTTOM M WIND KT WEATHER DOMINANT WAVES	10	12.64	33.434		270.8
87.035	02/09/72 0048GMT 33 50.0N 118 37.0W BOTTOM M WIND KT WEATHER DOMINANT WAVES	10	12.88	33.464		273.1
87.040	02/09/72 0445GMT 33 40.0N 118 57.5W BOTTOM M WIND KT WEATHER DOMINANT WAVES	10	12.88	33.475		272.3
87.045	02/09/72 0845GMT 33 30.0N 119 20.0W BOTTOM M WIND KT WEATHER DOMINANT WAVES	10	12.88	33.461		273.3
87.050	02/09/72 1244GMT 33 20.0N 119 39.5W BOTTOM M WIND KT WEATHER DOMINANT WAVES	10	11.80	33.488		251.6
87.055	02/09/72 1558GMT 33 09.0N 119 59.5W BOTTOM M WIND KT WEATHER DOMINANT WAVES	10	12.87	33.376		279.4
87.060	02/09/72 1937GMT 32 59.5N 120 21.0W BOTTOM M WIND KT WEATHER DOMINANT WAVES	10	13.22	33.316		290.4
87.070	02/10/72 0238GMT 32 41.0N 121 00.0W BOTTOM M WIND KT WEATHER DOMINANT WAVES	10	13.78	33.380		296.5
87.080	02/10/72 0915GMT 32 20.0N 121 42.0W BOTTOM M WIND KT WEATHER DOMINANT WAVES	10	13.26	33.317		291.1
87.090	02/10/72 1500GMT 32 00.0N 122 24.0W BOTTOM M WIND KT WEATHER DOMINANT WAVES	10	13.29	33.296		293.2
93.027	02/14/72 0122GMT 32 56.0N 117 19.0W BOTTOM M WIND KT WEATHER DOMINANT WAVES	10	12.72	33.488		268.3
93.028	02/14/72 0015GMT 32 54.5N 117 22.0W BOTTOM M WIND KT WEATHER DOMINANT WAVES	10	13.04	33.457		276.6
93.030	02/13/72 2030GMT 32 50.5N 117 31.0W BOTTOM M WIND KT WEATHER DOMINANT WAVES	10	13.38	33.480		281.4

			Z	T	S	O2	DT
93.035	02/13/72 1706GMT 32 40.5N 117 51.5W BOTTOM M WIND KT WEATHER DOMINANT WAVES		10	13.19	33.465		278.9
93.040	02/13/72 1219GMT 32 30.0N 118 11.0W BOTTOM M WIND KT WEATHER DOMINANT WAVES		10	13.44	33.475		282.9
93.045	02/13/72 0809GMT 32 20.0N 118 32.0W BOTTOM M WIND KT WEATHER DOMINANT WAVES		10	13.83	33.428		293.9
93.050	02/13/72 0414GMT 32 10.0N 118 52.5W BOTTOM M WIND KT WEATHER DOMINANT WAVES		10	13.78	33.437		292.3
93.055	02/13/72 0026GMT 32 00.0N 119 13.0W BOTTOM M WIND KT WEATHER DOMINANT WAVES		10	13.97	33.362		301.5
93.060	02/12/72 2130GMT 31 50.0N 119 34.0W BOTTOM M WIND KT WEATHER DOMINANT WAVES		10	13.50	33.430		287.4
93.070	02/12/72 1455GMT 31 30.0N 120 13.0W BOTTOM M WIND KT WEATHER DOMINANT WAVES		10	13.51	33.411		289.0
93.080	02/12/72 0836GMT 31 10.0N 120 54.0W BOTTOM M WIND KT WEATHER DOMINANT WAVES		10	13.49	33.316		295.6
93.090	02/12/72 0303GMT 30 50.0N 121 34.5W BOTTOM M WIND KT WEATHER DOMINANT WAVES		10	13.99	33.390		299.9
93.100	02/11/72 2049GMT 30 30.0N 121 13.0W BOTTOM M WIND KT WEATHER DOMINANT WAVES		10	14.48	33.538		298.8
93.110	02/11/72 1502GMT 30 08.0N 122 55.0W BOTTOM M WIND KT WEATHER DOMINANT WAVES		10	15.03	33.619		304.1
93.120	02/11/72 0855GMT 29 48.5N 123 34.0W BOTTOM M WIND KT WEATHER DOMINANT WAVES		10	14.28	33.416		303.7
97.029	02/15/72 0810GMT 32 17.5N 117 04.5W BOTTOM M WIND KT WEATHER DOMINANT WAVES		10	12.40	33.545		258.2

			Z	T	S	O2	DT
97.030	02/15/72 0915GMT 32 16.0N 117 07.0W BOTTOM M WIND KT WEATHER DOMINANT WAVES		10	12.42	33.522		260.3
97.032	02/15/72 1118GMT 32 12.0N 117 15.0W BOTTOM M WIND KT WEATHER DOMINANT WAVES		10	13.84	33.454		292.2
97.035	02/15/72 1420GMT 32 05.5N 117 27.5W BOTTOM M WIND KT WEATHER DOMINANT WAVES		10	13.77	33.465		290.0
97.040	02/15/72 1725GMT 31 55.5N 117 48.0W BOTTOM M WIND KT WEATHER DOMINANT WAVES		10	13.67	33.468		287.9
97.045	02/15/72 2125GMT 31 46.0N 118 08.0W BOTTOM M WIND KT WEATHER DOMINANT WAVES		10	13.82	33.441		292.8
97.050	02/16/72 0125GMT 31 36.0N 118 30.0W BOTTOM M WIND KT WEATHER DOMINANT WAVES		10	14.32	33.469		300.6
97.055	02/16/72 0535GMT 31 24.0N 118 49.0W BOTTOM M WIND KT WEATHER DOMINANT WAVES		10	14.50	33.456		305.2
97.060	02/16/72 0850GMT 31 15.0N 119 10.0W BOTTOM M WIND KT WEATHER DOMINANT WAVES		10	14.94	33.434		315.8
97.070	02/16/72 1550GMT 30 54.0N 119 50.0W BOTTOM M WIND KT WEATHER DOMINANT WAVES		10	12.72	33.399		274.9
97.080	02/16/72 2138GMT 30 35.0N 120 30.0W BOTTOM M WIND KT WEATHER DOMINANT WAVES		10	13.29	33.426		283.6
97.090	02/17/72 0438GMT 30 15.0N 121 09.5W BOTTOM M WIND KT WEATHER DOMINANT WAVES		10	13.86	33.437		293.9
103.029	02/19/72 0311GMT 31 07.0N 116 21.0W BOTTOM M WIND KT WEATHER DOMINANT WAVES		10	12.91	33.541		268.0
103.030	02/19/72 0221GMT 31 06.0N 116 24.5W BOTTOM M WIND KT WEATHER DOMINANT WAVES		10	13.40	33.488		281.2

			Z	T	S	O2	DT
103.035	02/18/72 2309GMT 30 56.0N 116 45.0W BOTTOM M WIND KT WEATHER DOMINANT WAVES		10	13.97	33.429		296.6
103.040	02/18/72 1950GMT 30 47.0N 117 06.0W BOTTOM M WIND KT WEATHER DOMINANT WAVES		10	13.94	33.421		296.6
103.045	02/18/72 1456GMT 30 35.0N 117 24.0W BOTTOM M WIND KT WEATHER DOMINANT WAVES		10	14.16	33.429		300.4
103.050	02/18/72 1118GMT 30 26.0N 117 44.0W BOTTOM M WIND KT WEATHER DOMINANT WAVES		10	14.07	33.443		297.6
103.055	02/18/72 0727GMT 30 14.0N 118 05.0W BOTTOM M WIND KT WEATHER DOMINANT WAVES		10	14.64	33.534		302.4
103.060	02/18/72 0341GMT 30 06.0N 118 25.0W BOTTOM M WIND KT WEATHER DOMINANT WAVES		10	14.78	33.568		302.7
103.070	02/17/72 2240GMT 29 46.5N 119 04.0W BOTTOM M WIND KT WEATHER DOMINANT WAVES		10	15.51	33.676		310.0
103.080	02/17/72 1515GMT 29 26.0N 119 43.0W BOTTOM M WIND KT WEATHER DOMINANT WAVES		10	15.50	33.680		309.5
107.031	02/19/72 0755GMT 30 28.0N 116 07.0W BOTTOM M WIND KT WEATHER DOMINANT WAVES		10	13.11	33.488		275.7
107.032	02/19/72 0908GMT 30 26.0N 116 11.5W BOTTOM M WIND KT WEATHER DOMINANT WAVES		10	13.44	33.462		283.9
107.035	02/19/72 1211GMT 30 21.5N 116 22.5W BOTTOM M WIND KT WEATHER DOMINANT WAVES		10	13.91	33.439		294.7
107.040	02/19/72 1553GMT 30 10.0N 116 42.0W BOTTOM M WIND KT WEATHER DOMINANT WAVES		10	14.68	33.560		301.3
107.050	02/19/72 2152GMT 29 50.0N 117 22.0W BOTTOM M WIND KT WEATHER DOMINANT WAVES		10	14.29	33.459		300.8

			Z	T	S	O2	DT
107.060	02/20/72 0400GMT 29 30.0N 118 01.0W BOTTOM M WIND KT WEATHER DOMINANT WAVES		10	15.14	33.612		306.9
107.070	02/20/72 0914GMT 29 11.0N 118 41.0W BOTTOM M WIND KT WEATHER DOMINANT WAVES		10	15.74	33.673		315.1
107.080	02/20/72 2300GMT 28 51.0N 119 20.0W BOTTOM M WIND KT WEATHER DOMINANT WAVES		10	15.49	33.639		312.3
113.029	02/22/72 1831GMT 29 24.0N 115 13.0W BOTTOM M WIND KT WEATHER DOMINANT WAVES		10	14.66	33.686		291.6
113.030	02/22/72 1742GMT 29 22.0N 115 18.0W BOTTOM M WIND KT WEATHER DOMINANT WAVES		10	14.30	33.681		284.7
113.035	02/22/72 1353GMT 29 10.0N 115 42.0W BOTTOM M WIND KT WEATHER DOMINANT WAVES		10	13.52	33.464		265.3
113.040	02/22/72 0951GMT 29 02.0N 115 57.0W BOTTOM M WIND KT WEATHER DOMINANT WAVES		10	14.47	33.629		291.9
113.045	02/22/72 0519GMT 28 49.0N 116 17.0W BOTTOM M WIND KT WEATHER DOMINANT WAVES		10	14.39	33.480		301.3
113.050	02/22/72 0220GMT 28 41.5N 116 36.0W BOTTOM M WIND KT WEATHER DOMINANT WAVES		10	15.22	33.681		303.6
113.060	02/21/72 2010GMT 28 18.0N 117 15.0W BOTTOM M WIND KT WEATHER DOMINANT WAVES		10	15.09	33.653		302.9
113.070	02/21/72 1438GMT 28 02.0N 117 55.0W BOTTOM M WIND KT WEATHER DOMINANT WAVES		10	15.54	33.633		313.8
113.080	02/21/72 0845GMT 27 40.0N 118 32.5W BOTTOM M WIND KT WEATHER DOMINANT WAVES		10	16.02	33.701		319.1
117.025	02/22/72 2347GMT 28 58.0N 114 37.0W BOTTOM M WIND KT WEATHER DOMINANT WAVES		10	14.55	33.673		290.3

		Z	T	S	O2	DT
117.026	02/23/72 0052GMT 28 56.0N 114 41.5W BOTTOM M WIND KT WEATHER DOMINANT WAVES	10	14.71	33.674		293.5
117.030	02/23/72 0320GMT 28 48.0N 114 56.5W BOTTOM M WIND KT WEATHER DOMINANT WAVES	10	14.80	33.702		293.3
117.035	02/23/72 0650GMT 28 38.0N 115 16.0W BOTTOM M WIND KT WEATHER DOMINANT WAVES	10	14.02	33.600		285.1
117.040	02/24/72 2153GMT 28 28.0N 115 35.5W BOTTOM M WIND KT WEATHER DOMINANT WAVES	10	14.12	33.597		287.3
117.045	02/25/72 0053GMT 28 18.0N 115 56.0W BOTTOM M WIND KT WEATHER DOMINANT WAVES	10	14.30	33.619		289.3
117.050	02/25/72 0518GMT 28 08.0N 116 15.0W BOTTOM M WIND KT WEATHER DOMINANT WAVES	10	14.48	33.628		292.2
117.060	02/25/72 1110GMT 27 48.0N 116 53.0W BOTTOM M WIND KT WEATHER DOMINANT WAVES	10	15.68	33.749		308.3
117.070	02/25/72 1656GMT 27 24.5N 117 31.5W BOTTOM M WIND KT WEATHER DOMINANT WAVES	10	15.09	33.671		301.6
117.080	02/25/72 2230GMT 27 08.0N 118 09.5W BOTTOM M WIND KT WEATHER DOMINANT WAVES	10	14.88	33.537		307.0
118.039	02/24/72 1804GMT 28 18.5N 115 23.5W BOTTOM M WIND KT WEATHER DOMINANT WAVES	10	14.50	33.686		288.4

		Z	T	S	O2	DT
100.029	02/01/72 1002GMT 31 42.0N 116 43.5W BOTTOM 99M WIND 00KT WEATHER 0 DOMINANT WAVES	10	12.20	33.515		256.8
100.035	02/01/72 1530GMT 31 30.5N 117 07.0W BOTTOM 1276M WIND 220 04KT WEATHER 2 DOMINANT WAVES	10	13.22	33.470		279.1
100.050	02/01/72 2353GMT 31 01.5N 118 06.0W BOTTOM 1485M WIND 220 07KT WEATHER 2 DOMINANT WAVES 280 01 07	10	14.02	33.423		298.0
100.070	02/02/72 1310GMT 30 20.0N 119 27.0W BOTTOM 3451M WIND 320 09KT WEATHER DOMINANT WAVES	10	14.33	33.520		297.1
100.090	02/02/72 2359GMT 29 40.5N 120 48.0W BOTTOM 3926M WIND 110 06KT WEATHER 1 DOMINANT WAVES 350 01 05	10	13.95	33.443		295.2
110.032	02/04/72 2200GMT 29 51.0N 115 49.5W BOTTOM 45M WIND 280 08KT WEATHER 1 DOMINANT WAVES 280 01 05	10	13.00	33.610		264.6
110.035	02/04/72 2000GMT 29 46.0N 116 00.0W BOTTOM 1206M WIND 280 08KT WEATHER 1 DOMINANT WAVES 280 01 05	10	13.80	33.672		275.5
110.045	02/04/72 1140GMT 29 27.0N 116 39.0W BOTTOM 427M WIND 350 09KT WEATHER DOMINANT WAVES	10	13.93	33.514		289.6
110.050	02/04/72 0900GMT 29 17.5N 116 59.0W BOTTOM 3357M WIND 360 10KT WEATHER DOMINANT WAVES	10	13.72	33.423		292.2
110.055	02/04/72 0453GMT 29 06.0N 117 19.0W BOTTOM 3357M WIND 320 07KT WEATHER DOMINANT WAVES	10	13.92	33.419		296.4
110.070	02/03/72 1804GMT 28 36.5N 118 18.0W BOTTOM 3545M WIND 240 10KT WEATHER 1 DOMINANT WAVES 060 02 05	10	15.04	33.592		306.3
119.033	02/05/72 1442GMT 26 19.0N 114 53.0W BOTTOM 110M WIND 340 10KT WEATHER DOMINANT WAVES	10	14.06	33.681		279.9
120.024	02/05/72 0837GMT 28 24.0N 114 10.5W BOTTOM 34M WIND 320 08KT WEATHER DOMINANT WAVES	10	13.90	33.736		272.7

		Z	T	S	O2	DT
120.025	02/05/72 0945GMT 28 22.5N 114 15.0W BOTTOM 52M WIND 050 05KT WEATHER DOMINANT WAVES	10	13.88	33.686		275.9
120.030	02/05/72 1156GMT 28 13.0N 114 34.0W BOTTOM 93M WIND 220 08KT WEATHER DOMINANT WAVES	10	13.96	33.703		276.3
120.035	02/05/72 1642GMT 28 03.0N 114 54.0W BOTTOM 80M WIND 140 12KT WEATHER 1 DOMINANT WAVES 140 01 05	10	13.98	33.673		278.9
120.040	02/05/72 1847GMT 27 56.5N 115 14.0W BOTTOM 43M WIND 300 09KT WEATHER 1 DOMINANT WAVES 300 02 06	10	14.28	33.682		284.2
120.050	02/06/72 0136GMT 27 32.5N 115 52.5W BOTTOM 3737M WIND 350 08KT WEATHER 1 DOMINANT WAVES 350 01 06	10	15.46	33.682		308.5
120.070	02/06/72 1409GMT 26 53.0N 117 09.0W BOTTOM 4116M WIND 360 07KT WEATHER DOMINANT WAVES	10	15.36	33.627		310.4
123.036	02/07/72 1813GMT 27 26.0N 114 36.0W BOTTOM 52M WIND 070 03KT WEATHER 1 DOMINANT WAVES 270 03 05	10	14.86	33.683		295.9
123.037	02/07/72 1723GMT 27 24.0N 114 40.0W BOTTOM 69M WIND 330 10KT WEATHER 1 DOMINANT WAVES 310 05 05	10	15.05	33.695		299.0
123.042	02/07/72 1445GMT 27 14.0N 114 59.0W BOTTOM 1809M WIND 340 18KT WEATHER 1 DOMINANT WAVES 340 05 05	10	14.56	33.665		291.1
123.045	02/07/72 1300GMT 27 08.0N 115 11.5W BOTTOM 4308M WIND 340 18KT WEATHER DOMINANT WAVES	10	14.68	33.627		296.4
123.050	02/07/72 1018GMT 26 58.0N 115 30.0W BOTTOM 3357M WIND 350 20KT WEATHER DOMINANT WAVES	10	15.20	33.671		303.9
123.060	02/07/72 0505GMT 26 38.0N 116 09.0W BOTTOM 3926M WIND 340 14KT WEATHER DOMINANT WAVES	10	15.62	33.718		309.3
127.033	02/07/72 2226GMT 26 57.5N 114 02.5W BOTTOM 65M WIND 270 13KT WEATHER 1 DOMINANT WAVES 270 03 03	10	15.30	33.724		302.1

		Z	T	S	O2	DT
127.034	02/07/72 2328GMT 26 55.5N 114 06.0W BOTTOM 45M WIND 260 07KT WEATHER 1 DOMINANT WAVES 260 05 05	10	15.82	33.819		306.2
127.040	02/08/72 0243GMT 26 43.5N 114 29.0W BOTTOM 2980M WIND 310 18KT WEATHER DOMINANT WAVES	10	15.03	33.681		299.6
127.045	02/08/72 0512GMT 26 33.0N 114 48.0W BOTTOM 3357M WIND 320 20KT WEATHER DOMINANT WAVES	10	15.75	33.790		306.8
127.050	02/08/72 0808GMT 26 23.0N 115 08.0W BOTTOM 4116M WIND 320 24KT WEATHER DOMINANT WAVES	10	16.14	33.953		303.3
127.060	02/08/72 1305GMT 26 04.0N 115 47.0W BOTTOM 3926M WIND 060 19KT WEATHER DOMINANT WAVES	10	15.64	33.809		303.0
130.030	02/09/72 0947GMT 26 29.0N 113 29.0W BOTTOM 80M WIND 090 04KT WEATHER DOMINANT WAVES	10	16.77	34.280		293.3
130.035	02/09/72 0710GMT 26 19.0N 113 48.0W BOTTOM 632M WIND 360 10KT WEATHER DOMINANT WAVES	10	16.30	34.179		290.3
130.050	02/08/72 2320GMT 25 49.5N 114 46.0W BOTTOM 3357M WIND 340 10KT WEATHER 1 DOMINANT WAVES 340 03 04	10	17.57	34.197		317.5
133.023	02/09/72 1520GMT 26 08.5N 112 40.0W BOTTOM 75M WIND 120 07KT WEATHER 2 DOMINANT WAVES 120 02 03	10	17.58	34.423		301.2
133.025	02/09/72 1648GMT 26 05.0N 112 48.0W BOTTOM 82M WIND 140 10KT WEATHER 2 DOMINANT WAVES 130 02 03	10	17.72	34.437		303.4
133.030	02/09/72 1910GMT 25 55.0N 113 08.0W BOTTOM 205M WIND 170 10KT WEATHER 2 DOMINANT WAVES 170 02 03	10	17.84	34.228		321.4
133.035	02/09/72 2222GMT 25 45.0N 113 26.5W BOTTOM 742M WIND 270 06KT WEATHER 2 DOMINANT WAVES 270 03 05	10	17.12	34.070		316.5
133.040	02/10/72 0123GMT 25 32.5N 113 45.5W BOTTOM 1856M WIND 360 04KT WEATHER 2 DOMINANT WAVES 360 01 06	10	19.14	34.480		334.0

		Z	T	S	O2	DT
133.050	02/10/72 0609GMT 25 14.0N 114 24.0W BOTTOM 3737M WIND 300 06KT WEATHER DOMINANT WAVES	10	18.38	34.379		323.1
133.060	02/10/72 1322GMT 24 53.5N 115 02.0W BOTTOM 3926M WIND 360 02KT WEATHER DOMINANT WAVES	10	17.18	34.138		312.9
137.022	02/11/72 1334GMT 25 36.0N 112 15.0W BOTTOM 54M WIND 040 02KT WEATHER DOMINANT WAVES	10	18.18	34.455		312.9
137.030	02/11/72 0923GMT 25 20.0N 112 45.5W BOTTOM 457M WIND 020 03KT WEATHER DOMINANT WAVES	10	18.01	34.309		319.5
137.035	02/11/72 0653GMT 25 11.0N 113 05.0W BOTTOM 1485M WIND 00KT WEATHER DOMINANT WAVES	10	17.38	34.103		319.9
137.050	02/10/72 2320GMT 24 39.5N 114 02.0W BOTTOM 2980M WIND 330 02KT WEATHER 2 DOMINANT WAVES	10	19.70	34.368		355.9
140.035	02/11/72 2246GMT 24 35.5N 112 42.5W BOTTOM 558M WIND 040 02KT WEATHER 1 DOMINANT WAVES 49	10	19.35	34.495		338.0
140.045	02/12/72 0528GMT 24 15.0N 113 21.0W BOTTOM 3451M WIND 350 01KT WEATHER DOMINANT WAVES	10	19.73	34.395		354.7
140.050	02/12/72 0827GMT 24 05.0N 113 40.0W BOTTOM 3169M WIND 020 04KT WEATHER DOMINANT WAVES	10	20.32	34.463		364.5
140.055	02/12/72 1037GMT 23 56.0N 113 58.5W BOTTOM 3169M WIND 020 05KT WEATHER DOMINANT WAVES	10	20.11	34.425		362.0
143.035	02/13/72 0937GMT 24 02.0N 112 20.5W BOTTOM 1485M WIND 340 08KT WEATHER DOMINANT WAVES	10	19.58	34.530		341.2
143.045	02/13/72 0319GMT 23 40.5N 112 59.0W BOTTOM 3451M WIND 330 06KT WEATHER DOMINANT WAVES	10	20.42	34.632		354.8
143.050	02/13/72 0030GMT 23 30.5N 113 18.0W BOTTOM 2885M WIND 360 06KT WEATHER 2 DOMINANT WAVES 360 02 03	10	20.37	34.555		359.1

		Z	T	S	C_2	σT
143.055	02/12/72 2140GMT 23 19.5N 113 36.0W BOTTOM 3737M WIND 020 05KT WEATHER 2 DOMINANT WAVES 020 02 03	10	20.55	34.361		377.7
143.060	02/12/72 1852GMT 23 10.0N 113 55.0W BOTTOM 3737M WIND 00KT WEATHER 1 DOMINANT WAVES	10	20.62	34.471		371.5
147.030	02/14/72 0331GMT 23 33.5N 111 41.5W BOTTOM 464M WIND 300 10KT WEATHER DOMINANT WAVES	10	21.10	34.651		370.8
147.040	02/14/72 0956GMT 23 16.5N 112 18.5W BOTTOM 3357M WIND 330 10KT WEATHER DOMINANT WAVES	10	20.50	34.631		356.9
147.045	02/14/72 1202GMT 23 05.5N 112 37.5W BOTTOM 3737M WIND 330 10KT WEATHER DOMINANT WAVES	10	20.46	34.621		356.6
147.050	02/14/72 1542GMT 22 56.5N 112 55.5W BOTTOM 3169M WIND 350 03KT WEATHER 2 DOMINANT WAVES 350 01 05	10	20.08	34.438		360.3
147.055	02/14/72 1743GMT 22 46.0N 113 15.0W BOTTOM 3545M WIND 270 02KT WEATHER 2 DOMINANT WAVES 270 02 09	10	20.93	34.630		368.0
150.019	02/16/72 0321GMT 23 24.0N 110 38.0W BOTTOM 279M WIND 310 24KT WEATHER DOMINANT WAVES	10	20.62	34.694		355.4
150.030	02/15/72 2039GMT 23 02.0N 111 22.0W BOTTOM 2790M WIND 310 15KT WEATHER 1 DOMINANT WAVES 310 05 05	10	20.87	34.566		371.1
150.035	02/15/72 1723GMT 22 52.0N 111 38.0W BOTTOM 3357M WIND 340 12KT WEATHER 1 DOMINANT WAVES 340 04 03	10		34.607		
150.045	02/15/72 1052GMT 22 32.0N 112 16.0W BOTTOM 3357M WIND 330 10KT WEATHER DOMINANT WAVES	10	21.32	34.613		379.3
150.050	02/15/72 0844GMT 22 24.0N 112 33.0W BOTTOM 3451M WIND 340 07KT WEATHER DOMINANT WAVES	10	21.38	34.618		380.5
150.055	02/15/72 0543GMT 22 12.0N 112 53.0W BOTTOM 3545M WIND 310 02KT WEATHER DOMINANT WAVES	10	20.97	34.575		373.0

		Z	T	S	O2	DT
150.060	02/15/72 0154GMT 22 01.0N 113 12.0W BOTTOM 3737M WIND 320 06KT WEATHER 2 DOMINANT WAVES 320 01 03	10	20.48	34.332		378.0
153.016	02/16/72 0758GMT 22 55.0N 110 07.5W BOTTOM 371M WIND 330 19KT WEATHER DOMINANT WAVES	10	21.44	34.626		381.5
153.025	02/16/72 1414GMT 22 37.0N 110 39.0W BOTTOM 2602M WIND 350 10KT WEATHER 1 DOMINANT WAVES	10	20.77	34.591		366.7
153.035	02/16/72 2133GMT 22 17.0N 111 17.0W BOTTOM 2980M WIND 330 12KT WEATHER 1 DOMINANT WAVES 330 04 05	10	22.31	34.565		409.0
153.040	02/17/72 0017GMT 22 07.0N 111 36.5W BOTTOM 4116M WIND 350 13KT WEATHER 1 DOMINANT WAVES 350 04 05	10	22.08	34.549		404.0
153.045	02/17/72 0328GMT 21 57.0N 111 55.0W BOTTOM 3357M WIND 360 10KT WEATHER DOMINANT WAVES	10	21.38	34.616		380.7
153.055	02/17/72 0915GMT 21 36.5N 112 31.5W BOTTOM 3641M WIND 320 07KT WEATHER DOMINANT WAVES	10	20.33	34.240		380.9
153.060	02/17/72 1217GMT 21 27.0N 112 50.5W BOTTOM 3834M WIND 350 12KT WEATHER DOMINANT WAVES	10	20.36	34.324		375.6
157.010	02/19/72 0053GMT 22 32.0N 109 23.0W BOTTOM 2980M WIND 080 07KT WEATHER 0 DOMINANT WAVES 080 04 04	10	21.02	34.679		366.8
157.015	02/18/72 2147GMT 22 22.5N 109 42.0W BOTTOM 3169M WIND 070 04KT WEATHER 0 DOMINANT WAVES 070 03 04	10	21.42	34.795		368.8
157.025	02/18/72 1452GMT 22 02.5N 110 19.0W BOTTOM 3263M WIND 360 12KT WEATHER 0 DOMINANT WAVES 360 02 03	10	21.04	34.586		374.0
157.030	02/18/72 1145GMT 21 52.5N 110 37.5W BOTTOM 3169M WIND 340 10KT WEATHER DOMINANT WAVES	10	22.01	34.525		403.9
157.040	02/18/72 0523GMT 21 32.5N 111 14.5W BOTTOM 3357M WIND 330 04KT WEATHER DOMINANT WAVES	10	22.23	34.613		403.4

		Z	T	S	O2	σt
157.045	02/18/72 0223GMT 21 22.5N 111 33.0W BOTTOM 3075M WIND 310 11KT WEATHER DOMINANT WAVES	10	21.73	34.503		398.0
157.050	02/17/72 2356GMT 21 12.5N 111 51.5W BOTTOM 3263M WIND 270 06KT WEATHER 0 DOMINANT WAVES 270 04 03	10	22.76	34.592		419.2
157.055	02/17/72 2050GMT 21 02.0N 112 10.5W BOTTOM 3545M WIND 310 03KT WEATHER 0 DOMINANT WAVES 310 02 03	10	22.57	34.597		413.7
1576.025	02/19/72 0252GMT 22 40.0N 109 10.0W BOTTOM 3075M WIND 310 10KT WEATHER DOMINANT WAVES	10	21.42	34.871		363.3
1576.055	02/19/72 0930GMT 22 55.5N 108 41.0W BOTTOM 3169M WIND 350 08KT WEATHER DOMINANT WAVES	10	21.17	34.616		375.2
1576.070	02/19/72 1216GMT 23 02.5N 108 27.0W BOTTOM 2602M WIND 330 09KT WEATHER DOMINANT WAVES	10	20.50	[illegible]		337.6
1576.085	02/19/72 1407GMT 23 09.5N 108 13.0W BOTTOM 2790M WIND 320 06KT WEATHER 0 DOMINANT WAVES 320 02 03	10	20.68	34.826		347.4
1576.115	02/19/72 1934GMT 23 26.0N 107 45.0W BOTTOM 1669M WIND 330 06KT WEATHER 0 DOMINANT WAVES 330 01 02	10	21.54	34.953		360.5
1576.130	02/19/72 2202GMT 23 32.0N 107 31.0W BOTTOM 975M WIND 310 08KT WEATHER 1 DOMINANT WAVES 310 01 02	10	19.58	34.949		310.8

DISTRIBUTION LIST

Inter-American Tropical Tuna Commission
(c/o Scripps Institution of Oceanography)

Dr. James Joseph

National Marine Fisheries Service
(c/o Scripps Institution of Oceanography)

Director's Office
Dr. Reuben Lasker
Dr. A. Alvariño de Leira
Library (2)
Mr. Ronald Lynn
Dr. Geoffrey Moser
Dr. Robert Owen, Jr.
Mr. Nelson C. Ross, Jr.

Scripps Institution of Oceanography

Dr. Edward Brinton
Dr. Richard W. Eppley
Dr. Abraham Fleminger
Dr. Joris M. T. M. Gieskes
Mr. Richard H. Greenbaum
Mrs. Kittie Kuhns
Library, SIO (Chris Scott) (4)
Mr. Arnold W. Mantyla
Dr. John A. McGowan
Dr. W. A. Nierenberg
Prof. Joseph L. Reid
Dr. Richard H. Rosenblatt
Mr. Richard A. Schwartzlose
Mr. George H. Snyder
Dr. Mizuki Tsuchiya
Dr. William G. Van Dorn
Mr. Robert T. Williams

DISTRIBUTION LIST

AFRICA

OCEANOGRAPHIC RESEARCH INSTITUTE
CENTENARY AQUARIUM BLDGS.
2 WEST STREET
DURBAN, NATAL,
SOUTH AFRICA

AUSTRALIA

DR. JOHN A. T. BYE
FLINDERS INSTITUTE FOR ATMOSPHERIC
AND MARINE SCIENCES
THE FLINDERS UNIVERSITY OF S. A.
BEDFORD PARK 5042, S. A.
AUSTRALIA

PROF. R. RADOK, DIRECTOR
HORACE LAMB INSTITUTE OF OCEANOGRAPHY
P. O. BOX 167
KINGSWOOD 5062, S. A.
AUSTRALIA

CANADA

DIRECTOR
INSTITUTE OF OCEANOGRAPHY
UNIVERSITY OF BRITISH COLUMBIA
VANCOUVER, B.C. V6T 1W5
CANADA

LIBRARY
PACIFIC BIOLOGICAL STATION
FISHERIES AND MARINE SERVICE
NANAIMO, B. C. V9R 5K6
CANADA

DR. C. S. WONG
INSTITUTE OF OCEAN SCIENCES
DEPARTMENT OF FISHERIES AND
ENVIRONMENT
P. O. BOX 6000
SIDNEY, B.C. V8L 4B2
CANADA

LIBRARY
SCIENCE SERVICES
DALHOUSIE UNIVERSITY
HALIFAX, N. S. B3H 4J3
CANADA

DR. CEDRIC R. MANN
BEDFORD INSTITUTION OF OCEANOGRAPHY
DARTMOUTH, N. S.
CANADA

PROF. GORDON A. RILEY
INSTITUTE OF OCEANOGRAPHY
DALHOUSIE UNIVERSITY
HALIFAX, N.S. B3H 3J5
CANADA

GERMANY

AKADEMIE DER WISSENSCHAFTEN DER DDR
INSTITUT FUR MEERESKUNDE
BIBLIOTHEK
253 WARNEMUNDE
EAST GERMANY

DEUTSCHES-HYDROGRAPHISCHES INSTITUT
TAUSCHSTELLE
POSTFACH 220
BERNHARD-NOCHT-STR. 78
D-2000 HAMBURG
WEST GERMANY

DR. REIMER SIMONSEN
INSTITUT FUR MEERESFORSCHUNG
285 BREMERHAVEN
AM HANDELSHAFEN 12
WEST GERMANY

ICELAND

DR. UNNSTEINN STEFANSSON
HAFRANNSOKNASTOFNUNIN
SKULAGATA 4
REYKJAVIK
ICELAND

IVORY COAST

M. HENRI ROTSCHI
CENTRE DE RECHERCHES
OCEANOGRAPHIQUES
29, RUE DES PECHEURS
B.P.V. 18 - ABIDJAN
REPUBLIQUE DE COTE D'IVOIRE

JAPAN

DR. KIYOMITSU KITANO
HOKKAIDO REGIONAL FISHERIES RESEARCH
LABORATORY
KATSURAKOI 116, KUSHIRO CITY
HOKKAIDO
JAPAN

DIRECTOR
KOBE MARINE OBSERVATORY
NAKAYAMATE 7
KOBE, 650
JAPAN

THE PUBLIC HEALTH INSTITUTE
OF HYOGO PREFECTURE
ARATA-CHO, HYOGO-KU
2-1 KOBE
JAPAN

PROF. HIDEO KAWAI
KYOTO UNIVERSITY
DEPARTMENT OF FISHERIES
FACULTY OF AGRICULTURE
KYOTO
JAPAN

DR. MICHITAKA UDA
COLLEGE OF MARINE SCIENCE AND
TECHNOLOGY
TOKAI UNIVERSITY
ORIDO, SHIMIZU-SHI, SHIZUOKA-KEN
JAPAN

MR. HAJIME YAMANAKA
FAR SEAS FISHERIES RESEARCH
LABORATORY
ORIDO, SHIMIZU 424
SHIZUOKA-KEN
JAPAN

DIRECTOR
JAPAN OCEANOGRAPHIC DATA CENTER
HYDROGRAPHIC DEPARTMENT
MARITIME SAFETY AGENCY
NO. 3-1, 5 CHOME, TSUKIJI
CHUO-KU, TOKYO
JAPAN 104

DR. KOJI HIDAKA
OCEAN RESEARCH INSTITUTE
UNIVERSITY OF TOKYO
NAKANO-KU
TOKYO
JAPAN

OCEANOGRAPHY DIVISION
MARINE DEPARTMENT
JAPAN METEOROLOGICAL AGENCY
1-3-4 OHTE-MACHI, CHIYODA-KU
TOKYO, 100
JAPAN

DR. DAITARO SHOJI, DIRECTOR
HYDROGRAPHIC DEPARTMENT
MARITIME SAFETY AGENCY
5-CHOME, TSUKIJI, CHUO-KU
TOKYO, 104
JAPAN

KOREA

LIBRARY
FISHERIES RESEARCH AND DEVELOPMENT
AGENCY
16-2KA, NAMHANG DONG
YOUNGDO-KU BUSAN 606
KOREA

MEXICO

BIBLIOTECA
CENTRO DE INVESTIGACION CIENTIFICA Y
EDUCACION SUPERIOR DE ENSENADA
APARTADO POSTAL 2732
ENSENADA, BAJA CALIFORNIA
MEXICO

BIBLIOTECA
INSTITUTO NACIONAL DE PESCA
CENTRO DE INVESTIGACION PESQUERA
APARTADO POSTAL 1306
ENSENADA, BAJA CALIFORNIA
MEXICO

BIBLIOTECA
UNIDAD DE CIENCIAS MARINAS
UNIVERSIDAD AUTONOMA DE BAJA
CALIFORNIA
APARTADO DE CORREOS 453
ENSENADA, BAJA CALIFORNIA
MEXICO

BIBLIOTECA
CENTRO DE PROMOCION PESQUERA
APARTADO POSTAL 396
MAZATLAN, SINALOA
MEXICO

DIRECTOR
ESTACION DE INVESTIGACION PESQUERA
APARTADO POSTAL 396
MAZATLAN, SINALOA
MEXICO

ESTACION DE INVESTIGACION PESQUERA
SECCION DE HIDROLOGIA
APARTADO POSTAL 396
MAZATLAN, SINALOA
MEXICO

AMERICAN EMBASSY (4)
REGIONAL FISHERY ATTACHE
APARTADO POSTAL 83-BIS
MEXICO 1, D. F.
MEXICO

BIBLIOTECA
DEPARTMENTO DE PESCA
ALVARO OREGON 269
MEXICO 7, D. F.
MEXICO

BIBLIOTECA
UNIVERSIDAD NACIONAL AUTONOMA DE
MEXICO
APARTADO POSTAL 70-223
MEXICO 20, D. F.
MEXICO

DIRECTOR
INST. DE GEOFISICA
TORRE DE CIENCIAS, 3ER PISO
UNIVERSIDAD NACIONAL AUTONOMA DE
MEXICO
VILLA OBREGON, D. F.
MEXICO

NEW ZEALAND

MR. J. W. BRODIE, DIRECTOR
NEW ZEALAND OCEANOGRAPHIC INSTITUTE
P. O. BOX 8009
WELLINGTON
NEW ZEALAND

PERU

BIBLIOTECA, INSTITUTO DEL MAR
APARTADO POSTAL 22
CALLAO
PERU

UNITED KINGDOM

THE BRITISH LIBRARY
SCIENCE REFERENCE LIBRARY
BAYSWATER BRANCH
10 PORCHESTER GARDENS, QUEENSWAY,
LONDON, W2 4DE, ENGLAND
UNITED KINGDOM

LIBRARY
SUBSCRIPTION DEPARTMENT
NEW SOUTH WALES GOVERNMENT OFFICES
66 STRAND
LONDON, WC2N 5LZ, ENGLAND
UNITED KINGDOM

LIBRARY
FISHERIES LABORATORY
MINISTRY OF AGRICULTURE, FISHERIES
AND FOOD
LOWESTOFT, SUFFOLK
NR33 OHT, ENGLAND
UNITED KINGDOM

MR. ARTHUR J. LEE, D.S.C.
FISHERIES LABORATORY
MINISTRY OF AGRICULTURE,
FISHERIES AND FOOD
LOWESTOFT, SUFFOLK
NR33 OHT, ENGLAND
UNITED KINGDOM

LIBRARY
INST. OF OCEANOGRAPHIC SCIENCE
WORMLEY, NEAR GODALMING
SURREY, ENGLAND
UNITED KINGDOM

DR. JOHN C. SWALLOW, F.R.S.
INSTITUTE OF OCEANOGRAPHIC SCIENCE
WORMLEY, GODALMING
SURREY GU8 5UB, ENGLAND
UNITED KINGDOM

LIBRARY
DEPARTMENT OF AGRICULTURE AND
FISHERIES FOR SCOTLAND
MARINE LABORATORY
P. O. BOX 101, VICTORIA ROAD
TORRY, ABERDEEN AB9 8DB, SCOTLAND
UNITED KINGDOM

UNITED STATES

ALASKA

DIRECTOR
INSTITUTE OF MARINE SCIENCE
UNIVERSITY OF ALASKA
COLLEGE, AK 99701

CALIFORNIA

PROFESSOR JAMES A. GAST
DEPARTMENT OF OCEANOGRAPHY
HUMBOLDT STATE UNIVERSITY
ARCATA, CA 95521

LOCKHEED CENTER FOR MARINE RESEARCH
ATTN C LESTER
6350 YARROW DRIVE, SUITE A
CARLSBAD, CA 92008

DIRECTOR
PACIFIC MARINE STATION
DILLON BEACH, CA 94929

INTERSEA RESEARCH CORPORATION
P. O. BOX 2389
LA JOLLA, CA 92037

MARINE TECHNICAL INFORMATION CENTER
DEPARTMENT OF FISH AND GAME
350 GOLDEN SHORE
LONG BEACH, CA 90802

DR. DONN S. GORSLINE
DEPARTMENT OF GEOLOGY
UNIVERSITY OF SOUTHERN CALIFORNIA
LOS ANGELES, CA 90007

HANCOCK LIBRARY OF BIOLOGY AND
OCEANOGRAPHY
UNIVERSITY OF SOUTHERN CALIFORNIA
LOS ANGELES, CA 90007

NAVAL ENVIRONMENTAL PREDICTION
RESEARCH FACILITY
MONTEREY, CA 93940

PROFESSOR DALE F. LEIPPER, CHAIRMAN
DEPARTMENT OF OCEANOGRAPHY
U.S. NAVAL POSTGRADUATE SCHOOL
MONTEREY, CA 93940

PROF. ROBERT G. PAQUETTE
DEPARTMENT OF OCEANOGRAPHY
U.S. NAVAL POSTGRADUATE SCHOOL
MONTEREY, CA 93940

MR. GUNTER R. SECKEL, DIRECTOR
PACIFIC ENVIRONMENTAL GROUP
NMFS, NOAA
C/O FLEET NUMERICAL WEATHER CENTRAL
MONTEREY, CA 93940

COMMANDING OFFICER (CODE 40) (2)
FLEET NUMERICAL WEATHER CENTRAL
MONTEREY, CA 93940

LIBRARY
GEOLOGY-OCEANOGRAPHY DEPARTMENT
CALIFORNIA STATE UNIVERSITY
NORTHRIDGE, CA 91324

OFFICER IN CHARGE (CODE L31)
CIVIL ENGINEERING LABORATORY
NAVAL CONSTRUCTION BATTALION CENTER
PORT HUENEME, CA 93043

PHILLIP SEELINGER
CODE 3144, BLDG. 514
PACIFIC MISSILE TEST CENTER
POINT MUGU, CA 93042

MR JOHN RADOVICH, HEAD
OPERATIONS RESEARCH BRANCH
DEPARTMENT OF FISH AND GAME
1416 NINTH STREET
SACRAMENTO, CA 95814

MR. WILLIAM E. BATZLER
CODE 0101
DEPARTMENT OF THE NAVY
NAVAL OCEAN SYSTEMS CENTER
SAN DIEGO, CA 92152

COMMANDER
NAVAL OCEAN SYSTEMS CENTER
ATTN TECHNICAL LIBRARY
CODE 6565
SAN DIEGO, CA 92152

MR. DAVID FARRIS
DEPARTMENT OF BIOLOGY
SAN DIEGO STATE UNIVERSITY
SAN DIEGO, CA 92182

LIBRARY
DEPARTMENT OF THE NAVY
NAVAL OCEAN SYSTEMS CENTER
SAN DIEGO, CA 92152

LIBRARY
LOCKHEED OCEAN LABORATORY
ATTN MR. TOM LAVORN
3380 N. HARBOR DRIVE
SAN DIEGO, CA 92101

LIBRARY
SAN DIEGO SOCIETY OF NATURAL HISTORY
P. O. BOX 1390
SAN DIEGO, CA 92182

PACIFIC SUPPORT GROUP
U. S. NAVAL OCEANOGRAPHIC OFFICE
SAN DIEGO, CA 92152

LIBRARY
CALIFORNIA ACADEMY OF SCIENCES
GOLDEN GATE PARK
SAN FRANCISCO, CA 94118

DIRECTOR
CENTER FOR COASTAL MARINE STUDIES
UNIVERSITY OF CALIFORNIA
SANTA CRUZ, CA 95064

NMFS, NOAA
TIBURON LABORATORY
3150 PARADISE DRIVE
TIBURON, CA 94920

COLORADO

DR. KEITH B. MACDONALD
SCIENCE APPLICATIONS, INC.
2760 29TH STREET
BOULDER, CO 80301

CONNECTICUT

PROF. GEORGE VERONIS
DEPARTMENT OF GEOLOGY AND
GEOPHYSICS
YALE UNIVERSITY
P.O. BOX 2161, YALE STATION
NEW HAVEN, CT 06520

FLORIDA

R.S.M.A.S. LIBRARY
UNIVERSITY OF MIAMI
4600 RICKENBACKER CAUSEWAY
MIAMI, FL 33149

LIBRARY
SOUTHWEST FISHERIES CENTER
NMFS, NOAA
75 VIRGINIA BEACH DRIVE
MIAMI, FL 33149

HAWAII

DR. RICHARD A. BARKLEY
CHIEF, ISLAND WAKE INVESTIGATIONS
HONOLULU LABORATORY
SOUTHWEST FISHERIES CENTER
NMFS, NOAA
BOX 3830
HONOLULU, HI 96812

LIBRARY
SOUTHWEST FISHERIES CENTER
NMFS, NOAA
P. O. BOX 3830
HONOLULU, HI 96812

MAINE

DR. MALVERN GILMARTIN, DIRECTOR
CENTER FOR MARINE STUDIES
UNIVERSITY OF MAINE
ORONO, ME 04469

MARYLAND

SECRETARY FOR PUBLICATIONS
CHESAPEAKE BAY INSTITUTE
THE JOHNS HOPKINS UNIVERSITY
BALTIMORE, MD 21218

ACQUISITIONS SECTION, IRDB/D823
LIBRARY AND INFORMATION SERVICES
DIVISION, NOAA
6009 EXECUTIVE BLVD.
ROCKVILLE, MD 20852

DR. GLENN A. FLITTNER, CHIEF
OCEANIC SERVICES DIVISION (W16)
OFFICE OF METEOROLOGY AND
OCEANOGRAPHY
NATIONAL WEATHER SERVICE
8060 13TH STREET - ROOM 1213
SILVER SPRING, MD 20910

MASSACHUSETTS

DR. JOHN M. EDMOND
DEPARTMENT OF EARTH AND PLANETARY
SCIENCES
BLDG. 54, ROOM 1326
MASS. INSTITUTE OF TECHNOLOGY
CAMBRIDGE, MA 02139

PROF. HENRY M. STOMMEL
RM. 54-1416
DEPARTMENT OF METEOROLOGY
MASSACHUSETTS INSTITUTE OF
TECHNOLOGY
CAMBRIDGE, MA 02139

DR. BRUCE A. WARREN
WOODS HOLE OCEANOGRAPHIC
INSTITUTION
WOODS HOLE, MA 02543

MR. L. V. WORTHINGTON
WOODS HOLE OCEANOGRAPHIC
INSTITUTION
WOODS HOLE, MA 02543

NEW JERSEY

PRINCETON GEOLOGY LIBRARY
ATTN MR. DAVID STAGER
DEPARTMENT OF GEOLOGICAL AND
GEOPHYSICAL SCIENCES
GUYOT HALL
PRINCETON UNIVERSITY
PRINCETON, NJ 08540

NEW YORK

PROF. GERHARD NEUMANN
DEPT. OF METEOROLOGY AND
OCEANOGRAPHY
NEW YORK UNIVERSITY
BRONX
NEW YORK, NY 10453

DR. ARNOLD L. GORDON
LAMONT-DOHERTY GEOPHYSICAL
OBSERVATORY OF COLUMBIA UNIVERSITY
PALISADES, NY 10964

OREGON

PATTULLO STUDY
SCHOOL OF OCEANOGRAPHY
OREGON STATE UNIVERSITY
CORVALLIS, OR 97331

DR. R. PYTKOWICZ
SCHOOL OF OCEANOGRAPHY
OREGON STATE UNIVERSITY
CORVALLIS, OR 97331

PACIFIC MARINE FISH. COMMISSION
528 S.W. MILL
PORTLAND, OR 97201

RHODE ISLAND

PELL MARINE SCIENCE LIBRARY
UNIVERSITY OF RHODE ISLAND
NARRAGANSETT BAY CAMPUS
NARRAGANSETT, RI 02882

TEXAS

MR. JOHN D. COCHRANE
DEPARTMENT OF OCEANOGRAPHY
TEXAS A AND M UNIVERSITY
COLLEGE STATION, TX 77843

DR. WORTH D. NOWLIN, JR.
CHAIRMAN, DEPARTMENT OF
OCEANOGRAPHY
TEXAS A AND M UNIVERSITY
COLLEGE STATION, TX 77843

DR. SAYED EL-SAYED
DEPARTMENT OF OCEANOGRAPHY
TEXAS A AND M UNIVERSITY
COLLEGE STATION, TX 77843

WORKING COLLECTION
DEPARTMENT OF OCEANOGRAPHY
TEXAS A AND M UNIVERSITY
COLLEGE STATION, TX 77843

VIRGINIA

PROFESSOR RONALD E. JOHNSON
INSTITUTE OF OCEANOGRAPHY
OLD DOMINION UNIVERSITY
NORFOLK, VA 23508

WASHINGTON

DR. LAURENCE K. COACHMAN
DEPARTMENT OF OCEANOGRAPHY WB-10
UNIVERSITY OF WASHINGTON
SEATTLE, WA 98195

LIBRARY
FISHERIES-OCEANOGRAPHY WB-30
151 OCEANOGRAPHY TEACHING BLDG.
UNIVERSITY OF WASHINGTON
SEATTLE, WA 98195

PROF. GUNNAR I. RODEN
DEPARTMENT OF OCEANOGRAPHY WB-10
UNIVERSITY OF WASHINGTON
SEATTLE, WA 98195

DR. BRUCE A. TAFT
DEPARTMENT OF OCEANOGRAPHY WB-10
UNIVERSITY OF WASHINGTON
SEATTLE, WA 98195

WASHINGTON, D. C.

BRITISH NAVY STAFF
BRITISH EMBASSY
3100 MASSACHUSETTS AVENUE, N.W.
ATTN SCIENTIFIC INFORMATION OFFICER
WASHINGTON, DC 20008

COMMANDING OFFICER
U. S. COAST GUARD OCEANOGRAPHIC UNIT
BLDG. 159-E, NAVY YARD ANNEX
WASHINGTON, DC 20590

COMMANDER (2)
U. S. NAVAL OCEANOGRAPHIC OFFICE
LIBRARY CODE 3330
WASHINGTON, DC 20373

DIRECTOR (3)
NATIONAL OCEANOGRAPHIC DATA CENTER
NOAA
WASHINGTON, DC 20235

DIRECTOR (6)
WORLD DATA CENTER A
NOAA
WASHINGTON, DC 20235

DR. ROBERT H. GIBBS, JR.
DIVISION OF FISHERIES
U. S. NATIONAL MUSEUM
WASHINGTON, DC 20560

MR. ROBERT SCHONING, DIRECTOR
NATIONAL MARINE FISHERIES SERVICE
NOAA
WASHINGTON, DC 20235