

UNIVERSITY OF CALIFORNIA
SCRIPPS INSTITUTION OF OCEANOGRAPHY

PHYSICAL AND CHEMICAL DATA

CalCOFI Cruise 7805
13 May - 11 June 1978

CalCOFI Cruise 7807
21 June - 17 July 1978

CalCOFI Cruise 7808
31 July - 27 August 1978

CRUCERO JD-7805
13 de mayo - 11 de junio 1978

CRUCERO AH-7807, JD-7807
21 de junio - 17 de julio 1978

CRUCERO AH-7808, JD-7808
31 de julio - 27 de agosto 1978

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INTRODUCTION

The data in this report were collected during Cruises 7805*, 7807, and 7808 of the California Cooperative Oceanic Fisheries Investigations (CalCOFI) program aboard the RV *David Starr Jordan* of the National Marine Fisheries Service, and the RV *Alejandro de Humboldt* of the Instituto Nacional de Pesca of the Mexican Federal Government. In addition, tritium data from Cruises 7801, 7803, 7804 and 7808 are included in this report. The report preceding this one in the series was SIO Ref. 82-21, which included data for 1977 and 1978.

These data were collected and processed by personnel of the Data Collection and Processing Group, Marine Life Research Group (DCPG**, MLRG) of Scripps Institution of Oceanography, the Southwest Fisheries Center, National Marine Fisheries Service (NMFS), and the Instituto Nacional de Pesca (INP), various branches.

STANDARD PROCEDURES

Hydrographic Cast Data

Most of the hydrographic casts consisted of 18 Nansen bottles. At most stations the maximum sampling depth was 500 meters, bottom depth permitting. Temperature, salinity, oxygen and nutrients were determined for all depths on each station.

At selected stations 10-meter bottles were cast with samples being taken for temperature, salinity, oxygen and nutrients.

In general, paired protected reversing thermometers were used to determine temperatures which were recorded in hundredths of a Celsius degree. Unless otherwise noted, temperatures determined using *unprotected* (pressure) thermometers or surface "bucket" thermometers were

* The first two digits of the cruise designator represent the year and the second two digits the month of the cruise.

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

INTRODUCCION

Los datos de este informe fueron obtenidos durante los cruceros 7805*, 7807, y 7808 realizados dentro del programa de cooperación científico-técnico entre CalCOFI (California Cooperative Oceanic Fisheries Investigations) y el Instituto Nacional de Pesca del Departamento de Pesca** de México, a bordo del BI *David Starr Jordan*, del National Marine Fisheries Service de los Estados Unidos y el BI *Alejandro de Humboldt*, del Departamento de Pesca, México. Además los datos de tritio de los cruceros 7801, 7803, 7804 y 7808 se incluyen en este reporte. El informe precedente a éste en la serie era el SIO Ref. 82-21, que incluye datos para 1977 y 1978.

Estos datos fueron colectados y procesados por el personal del Data Collection and Processing Group del Marine Life Research Group (DCPG***, MLRG) del Scripps Institution of Oceanography, y por el personal del Southwest Fisheries Center del National Marine Fisheries Service (NMFS), y del Instituto Nacional de la Pesca (INP) del Departamento de Pesca.

METODOS

Obtención de Datos Hidrográficos

El mayor número de lances realizados se efectuaron con 18 botellas, muestreándose la mayoría de las estaciones hasta una profundidad máxima de 500 metros, cuando la profundidad lo permitía. Se determinó en todas las profundidades de cada estación temperatura, salinidad, oxígeno y nutrientes. Se seleccionaron también estaciones para el muestreo a 10 metros de profundidad, para la toma de estos datos.

Para determinar temperatura se utilizaron por lo general termómetros de inversión dobles, registrándose ésta en grados centígrados, con aproximación centésimos. La temperatura superficial se determinó empleando termómetros de cubeta no pretegidos, registrándola en décimas

* Los primeros dos dígitos representan el año y los dos que siguen, el mes en que se efectuó el crucero.

** Ahora llamado la Secretaría de Pesca.

*** Ahora llamado Physical and Chemical Oceanographic Data Facility (PACODF).

recorded to tenths of a degree. Sample bottles used below 100 meters were equipped with unprotected thermometers for depth determination.

Salinity values on both ships for all cruises included were determined using models 6220 and 6230 Hytech or Plessey (now Grundy Environmental Systems, Inc.) inductive salinometers, an Autolab inductive salinometer, and a Guildline model 8400 Autosal inductive salinometer. Except for a few major malfunctions when salinometers could no longer be used, problems consisted of bubbles in the cells, excessive drift (samples were rerun) and stirring motor breakdowns. All samples were analyzed at sea.

The salinity values were recorded and 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 were reported to two decimal places.

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 an automated analyzer consisting of the following components:

Sampler: A.H. Thomas Model 253 Little Dipper with a 20-position sampling rack.

Proportioning Pump: Technicon[®] Auto-Analyzer[®] II Proportioning Pump with air bar.

Detectors: Hitachi Model 100-10 spectrophotometers with flow-through cell adaptors.

Recorders: Hitachi Model 056 two-pen recorders with felt tip pens.

The procedures used are basically those described in Atlas *et al.* (1971). There were very few problems associated with the silicate and nitrate analyses. In general, these data were processed in a routine manner. Nitrites tend to vary between poor and very poor after the first week of each cruise, depending on whether or not contamina-

de grados. Para profundidades mayores de 100 metros se equiparon con termómetros no protegidos.

La salinidad fue determinada utilizando salinómetros de inducción modelos 6220 y 6230 Hytech o Plessey (ahora Grundy Environmental Systems, Inc.), un salinómetro inducción Autolab, y un salinómetro de inducción Autosal modelo 8400. Excepto por algunos malos funcionamientos en que ya se podían utilizar los salinómetros, problemas consistían de la formación de burbujas en las celdas, excesivas partículas y mal funcionamiento del motor (estos muestreos se hicieron de nuevo). Todas las muestras fueron analizadas a bordo.

Los valores de salinidad se registraron y se reportaron en milésimas de aproximación, de acuerdo con el procedimiento estándar aceptado. Cuando sólo se realizó una determinación por muestra ó había una duda respecto a la confiabilidad de los datos, la salinidad se reportó en centésimos.

El oxígeno disuelto fue determinado por el método Winkler modificado por Carpenter (1965) usando el equipo y procedimientos descritas por Anderson (1971).

Fosfato, silicato, nitrito y nitrato se determinaron con la ayuda del analizador automático con las siguientes especificaciones:

Muestredor: A.H. Thomas Modelo 253 Little Dipper con una roseta muestreadora con 20 posiciones.

Bomba abastecedora: Technicon[®] Auto-Analyzer[®] II Bomba Abastecedora con barra de aire.

Sensores: Hitachi Modelo 100-10 espectrofotómetros con adaptadores que permiten el flujo libre por las celdas.

Registadores: Hitachi Modelo 056 dos registradores que consisten de plumas con puntas de fieltro.

Los procedimientos usados son básicamente los descritos en Atlas *et al.* (1971). Los silicatos y nitratos fueron procesados con poca dificultad y de

tion occurred when the sample bottles were not routinely cleaned with hydrochloric acid. When contamination was evident, the typically "high" nitrite values were omitted for the station and the tabulated nitrate value is nitrate plus nitrite. This tabulated value is probably closer to the correct value than had a correction with the "high" nitrite been made.

Phosphate data are less reliable than the other measurements due to a number of problems including: poor sensitivity, poorly defined peaks, a serious memory effect and a very slow response time. Temperature control at the elevated temperature required for the analysis was also a problem at times. The initially calculated phosphate values were often unreasonable. Adjustments were made based on two factors: one, expedition phosphate data show that there is very little phosphate variation at a depth of 500 meters (approx. 2.8 to 3.1 $\mu\text{g-at/L}$) and two, a plot of phosphate vs. nitrate is essentially linear and constant, and the cruise nitrates are believed to be acceptable. The phosphate factors and baselines were adjusted to bring the phosphate results into reasonable agreement with the historical 500-m phosphate range and the phosphate-nitrate relationship.

The observed data have been evaluated using standard DCPG techniques (Klein, 1973). This involves consideration of their variation as functions of density or depth and their relations to each other, and comparison with concurrent bathythermogram (BT or XBT) or CTDO observations and with previous or adjacent observations.

Chlorophyll samples were collected from the first 12 levels of 18 bottle casts or all levels of shallow casts.

Chlorophyll samples were analyzed on all cruises by fluorometer using the technique of Owen (1974).

Secchi disk observations were made on most stations occurring between 0900 and 1600 Pacific

manera rutinaria. Las muestras para determinar nitritos fueron contaminados en varios de los cruceros. Los nitritos tendían a variarse, siendo entre malos y muy malos, después de las primeras semanas de cada crucero, dependiendo de si la contaminación ocurrió cuando las botellas muestreadoras no fueron limpiadas rutinamente con ácido hidroclicó. Cuando la contaminación era muy evidente, los valores típicamente "altos" de nitrito eran suprimidos para aquella estación y el valor tabulado de nitrato es probablemente más cercano al valor correcto que si le hubiera hecho una corrección con el valor "alto" del nitrito.

Los datos fosfatos son menos confiables que las otras medidas debido a una serie de problemas que incluyen lo siguiente: mala sensibilidad, picos mal definidos, un serio efecto de memoria, y un lento tiempo de respuesta. El mantenimiento de la temperatura a la temperatura elevada requerida por el análisis también resultó roblemático a veces. Los valores de fosfatos que se calculaban inicialmente eran a menudo irrazonables. Se hicieron ajustes, basándose en dos factores: datos de fosfato de expedición muestran que hay muy poca variación de fosfato a una profundidad de 500 metros (approx. 2.8 a 3.1 $\mu\text{g-at/L}$) y, un diagrama de fosfato contra nitrato es esencialmente lineal y constante, y se cree que los nitratos de los cruceros son aceptables. Los factores de fosfato y las líneas de base fueron ajustados para que estuvieran los resultados de fosfato de acuerdo con el rango fosfático histórico de 500 metros y la relación fosfato-nitrato.

Los datos observados fueron evaluados usando las técnicas estándares del Data Collection and Processing Group (DCPG) (Klein, 1973). Estas técnicas consideran sus variaciones en función de la densidad ó profundidad y las relaciones de una con otra y en comparación con batitermogramas simultáneos (BT ó XBT) ó con CTDO, así como con observaciones previas.

Las muestras fueron colectadas de los primeros 12 niveles de un lance de 18 botellas ó de todos los niveles en los muestreos realizados a poca profundidad.

Las muestras de clorofila en todos los cruceros se analizaron por fluorometría utilizando la tecnica de Owen (1974).

Standard Time (PST, +8) for all cruises. These data are tabulated following the chlorophyll data.

Tritium samples were collected at selected stations along CalCOFI lines 63, 77, 83 and 93 (or 97) spanning the period from January through August, 1978. All samples were drawn into gallon glass bottles filled with argon and returned to the laboratory for the tritium analysis by the method outlined by Bainbridge (1965). All samples were analyzed by personnel at the Mount Soledad Tritium Laboratory. The results which are tabulated at the end of this report give the tritium concentrations and one sigma counting error.

Data collected with an *in situ* Conductivity/Temperature/Depth/Oxygen recorder (CTDO) during the cruises in this report will appear in a separate report.

Starting with Cruise 7712, the standard CalCOFI oblique tow, 300 meters of wire out, depth permitting, was made with an open Bongo frame with a 505 μ net on the starboard side and a 333 μ net on the port side. Starboard samples were preserved in formalin; port samples were preserved in an alcohol solution for otolith studies.

Periodically, a heretofore standard 1-m CalCOFI tow was taken in order to extend the comparisons between the Bongo and 1-m net tows made during the 1975 CalCOFI cruises.

Manta (neuston) surface tows were made on all net-tow stations, weather conditions permitting, and on selected stations vertical phytoplankton tows were made to a depth of 100 m (depth permitting).

TABULATED DATA

The time for bottle casts is reported in Greenwich Mean Time. It is the time of the messenger release. Secchi disk observations are reported in local time (PST).

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 casts, are indicated by a footnote letter following the observed depth.

Las observaciones con disco Secchi se efectuaron en todas las estaciones realizadas entre las 0900 y las 1600 horas tiempo del Pacífico (PST) para todos los cruceros. Estos datos son tabulados por separado y siguen a los datos de clorofila.

Muestras de tritio fueron colectadas en ciertas estaciones de las líneas CalCOFI 63, 77, 83 y 93 (ó 97) durante el período de Enero 1978 a Agosto del mismo año. Todas las muestras se pusieron en botellas de vidrio de un galon conteniendo argon y se regresaron al laboratorio para el análisis del tritio utilizando la técnica descrita por Bainbridge (1965). Todas las muestras se analizaron en el laboratorio de tritio de Mt. Soledad. Los resultados que se tabulan al final de este informe dan las concentraciones del tritio y la desviación estándar.

Los datos colectados con una unidad de conductividad/temperatura/profundidad/oxígeno (CTDO) *in situ* durante los cruceros que aquí se reportan aparecerán en un reporte por separado.

Inciándose con el crucero 7712 se hizo un arrastre oblicuo estándar de CalCOFI, cuando ésto fuera permitido por una profundidad equivalente a un filar de 300 metros de cable. Se hizo con un marco abierto Bongo con una red de 505 μ en el lado estribor y una red de 333 μ en el lado babor. Las muestras del lado babor fueron preservados en una solución de alcohol para estudios de otolitos.

Periódicamente los arrastres CalCOFI de 1 metro que eran estándares hasta la fecha se hicieron para poder extender las comparaciones que se hicieron durante los cruceros CalCOFI de 1975.

También se hicieron arrastres superficiales Manta (neuston) y en estaciones selectas se hicieron arrastres verticales de fitoplancton hasta una profundidad de 100 metros (si la profundidad lo permitía).

DATOS TABULADOS

El tiempo registrado para los lances de botella fue el tiempo del meridiano de Greenwich. Es la hora del envío del mensajero. Las observaciones del disco de Secchi son registradas en tiempo local (hora del Pacífico).

Bottom depths, determined acoustically, have been corrected using Matthews' (1939) tables and are reported in meters. On the *Humboldt*, the echo sounding units had a rated maximum sounding range of 1000 meters. Depths greater than this are from the navigational charts and, after conversion to meters, have been listed to the nearest five meters. The weather and dominant waves are coded using the National Oceanographic Data Center (NODC) method.

Data for all cruises presented in this report were obtained by bottle casts or from separate lowerings to obtain the Secchi disk data. The data appear in two forms:

1. Data from the sample bottle casts are tabulated with the observed levels of depth on the left of a page, and standard depth values of temperature, salinity and oxygen interpolated from these observations on the right. 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. Chlorophyll, phaeophytin, Secchi disk, and tritium data appear as separate sections.

With the addition of chlorophyll-a, phaeophytin, Secchi disk observations and tritium, 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 CalCOFI station designations have been in use for over 20 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.] The column headings are to be interpreted as follows:

Cuando se realizó más de un lance por estación se anota la hora del envío del primer mensajero y del último. Múltiples lances, excluyendo a lances superficiales, se señalan con una letra al calce después de la profundidad observada.

Cuando la profundidad del fondo se determinó acústicamente, fue corregida utilizando las tablas de Matthews (1939), registrándola en metros. En el BI *Humboldt*, las profundidades mayores de 1000 metros no fueron registradas por la ecosonda, así que éstas se obtuvieron de cartas de navegación y después de ser convertidas a metros, fueron listadas con aproximación a cinco metros. El tiempo y oleaje dominante se codificaron usando el método del National Oceanographic Data Center (NODC).

Los datos de todos los cruceros presentados en este informe se obtuvieron de lances con botellas ó de bajadas separadas para obtener los datos del disco Secchi. Estos datos se registran en dos formas:

1. Los datos provenientes de lances con botellas y tabulados en niveles de profundidad se ubicaron al margen izquierdo de la página y los valores de profundidades estándares correspondientes a temperatura, salinidad, oxígeno, interpolados de estas observaciones, al lado derecho. Valores computados de la anomalía termostérica (DT) se incluyen con los niveles observados, y los valores computados de sigma-t (SIGT), anomalía termostérica (DT), y anomalía geopotencial (DD) se incluyen con los niveles interpolados.

2. Clorofila, feofitina, datos del disco Secchi, y tritio aparecen en una sección separada.

Con la adición de clorofila-a, feofitina, observaciones del disco Secchi, y tritio, los mismos parámetros son tabulados en este informe como en reportes previos. El punto decimal de las estaciones de CalCOFI se omitió, así que los datos de la estación número 90.65 se registran como 90065. [Las designaciones de estaciones CalCOFI han estado en uso durante más de veinte años. La

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	$\sigma_t = (\rho_{s,t,0} - 1) 10^3$ 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
CHL.A	Chlorophyll-a	mg/m ³
PHAEO	Phaeophytin	mg/m ³
TU ± σ TU	Tritium (± sigma counting error)	TU

Z	Profundidad	Metros
T	Temperatura	°C
S	Salinidad	‰
O2	Oxeno	ml/L
PO4	Fosfato-fósforo inorgánico "reactivo"	µg-at/L
SIO3	Silicato-Silicio inorgánico "reactivo"	µg-at/L
NO2	Nitrito-nitrógeno "reactivo"	µg-at/L
NO3	Nitrato-nitrógeno "reactivo"	µg-at/L
DT	δ_T = Anomalía termostérica	cl/ton
SIGT	$\sigma_t = (\rho_{s,t,0} - 1) 10^3$ donde $\rho_{s,t,0}$ es la densidad que tendría la parcela si ésta se moviera isotérmicamente hasta la superficie del mar.	g/L
DD	Anomalía geopotencial, referida a la superficie del mar.	metros din.
CHL.A	Clorofila-a	mg/m ³
PHAEO	Feofitina	mg/m ³
TU ± σ TU	Tritium (± error de conteo del sigma)	TU

primera parte especifica una línea normal a la tendencia general de la costa (Línea CalCOFI). La segunda parte especifica la posición de una estación relativo a la costa en la línea CalCOFI.] Los símbolos del encabezado de las columnas se deben interpretar de la siguiente manera:

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	$\sigma_t = (\rho_{s,t,0} - 1) 10^3$ 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
CHL.A	Chlorophyll-a	mg/m ³
PHAEO	Phaeophytin	mg/m ³
TU ± σ TU	Tritium (± sigma counting error)	TU

Z	Profundidad	Metros
T	Temperatura	°C
S	Salinidad	‰
O2	Oxeno	ml/L
PO4	Fosfato-fósforo inorgánico "reactivo"	µg-at/L
SIO3	Silicato-Silicio inorgánico "reactivo"	µg-at/L
NO2	Nitrito-nitrógeno "reactivo"	µg-at/L
NO3	Nitrato-nitrógeno "reactivo"	µg-at/L
DT	δ_T = Anomalía termostérica	cl/ton
SIGT	$\sigma_t = (\rho_{s,t,0} - 1) 10^3$ donde $\rho_{s,t,0}$ es la densidad que tendría la parcela si ésta se moviera isotérmicamente hasta la superficie del mar.	g/L
DD	Anomalía geopotencial, referida a la superficie del mar.	metros din.
CHL.A	Clorofila-a	mg/m ³
PHAEO	Feofitina	mg/m ³
TU ± σ TU	Tritium (± error de conteo del sigma)	TU

FOOTNOTES

Data which appear to be in error without obvious reason are reported, but flagged uncertain with a U. Such data were not used in the determination of data at standard depths. Footnotes are used to indicate data which have required special processing.

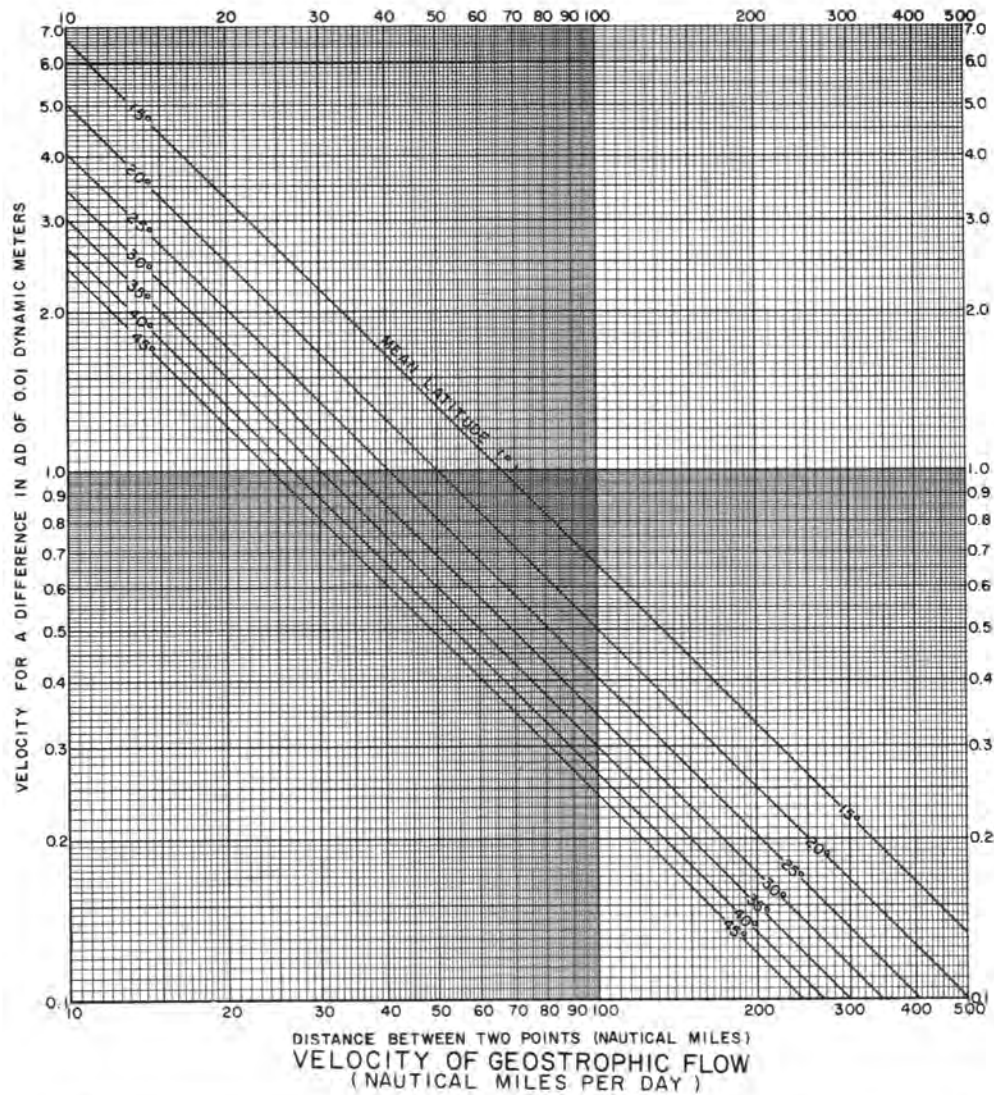
NOTAS AL CALCE

Los datos que aparecen con errores sin explicación obvia son reportados, pero se les señala con una U. Estos datos no fueron utilizados en la determinación de datos a profundidades estándares. Se utilizan las notas al calce para indicar los datos que han requerido un procesamiento especial.

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cm/sec	0	1	2	3	4	5	6	7	8	9
0	<i>KNOTS</i> 0.02 <i>NM/DAY</i>	0.04	0.06	0.08	0.10	0.12	0.14	0.16	0.17	
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 7805

1. CalCOFI Cruise 7805, 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

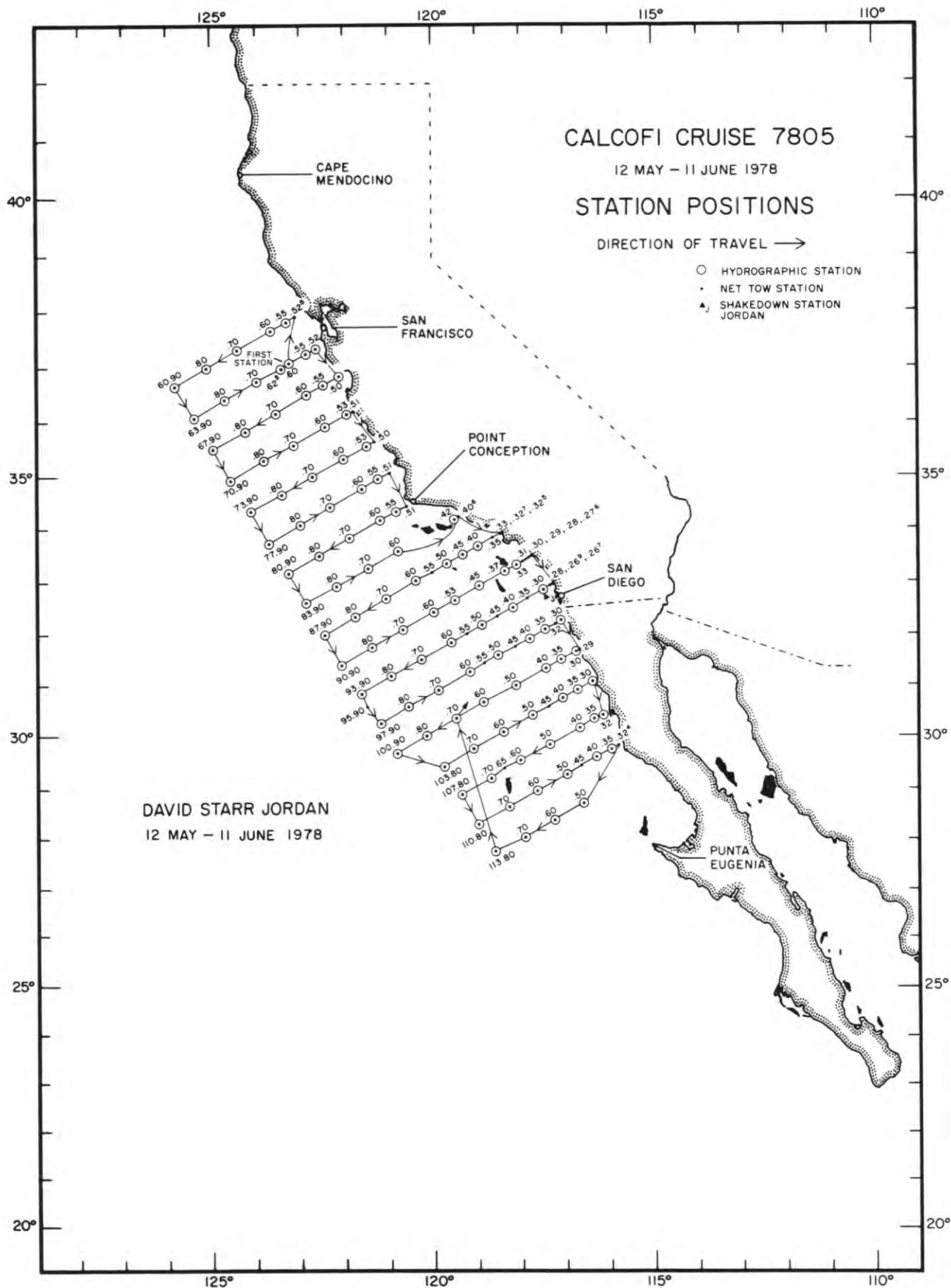


FIGURE 1

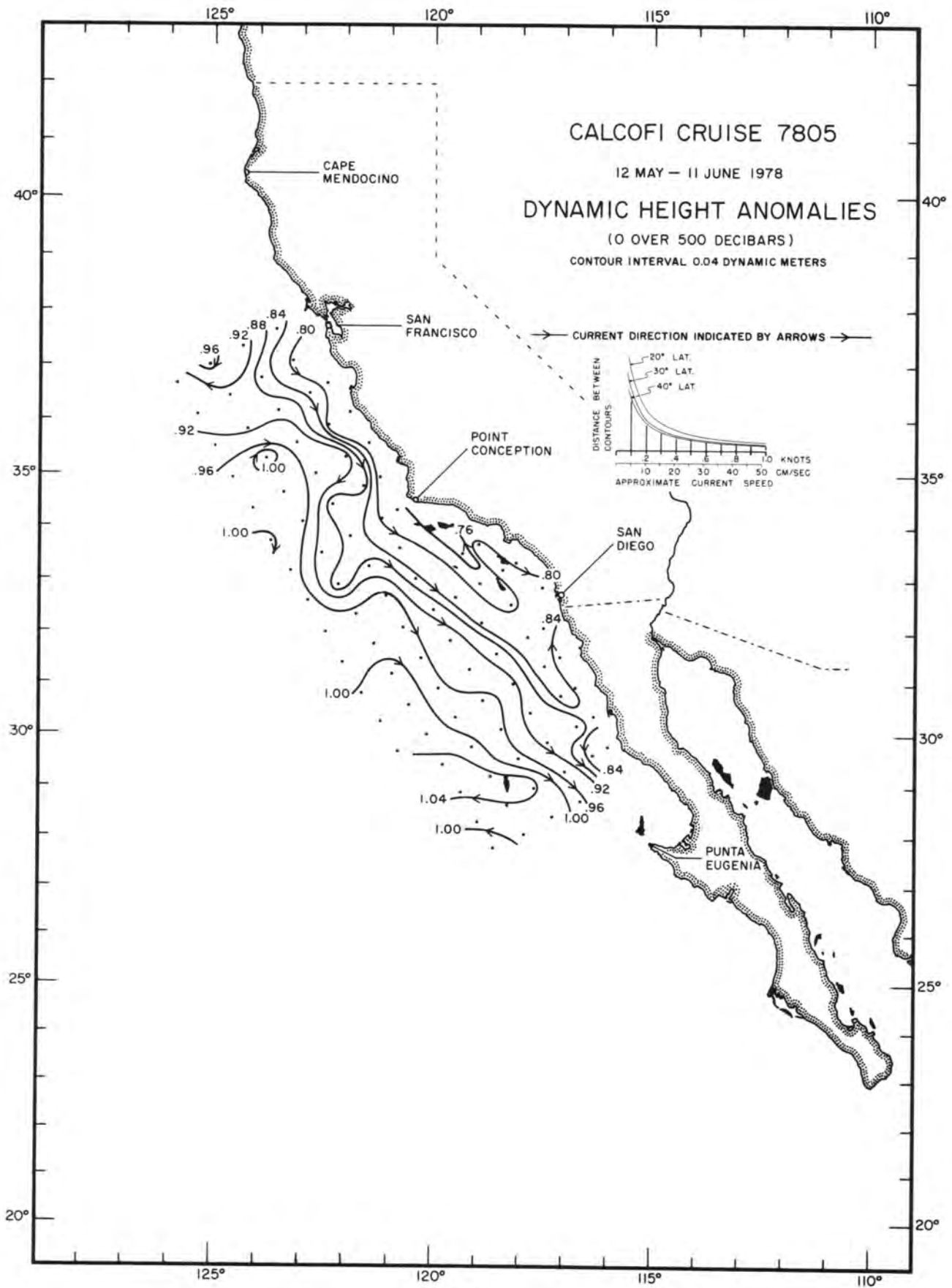


FIGURE 2

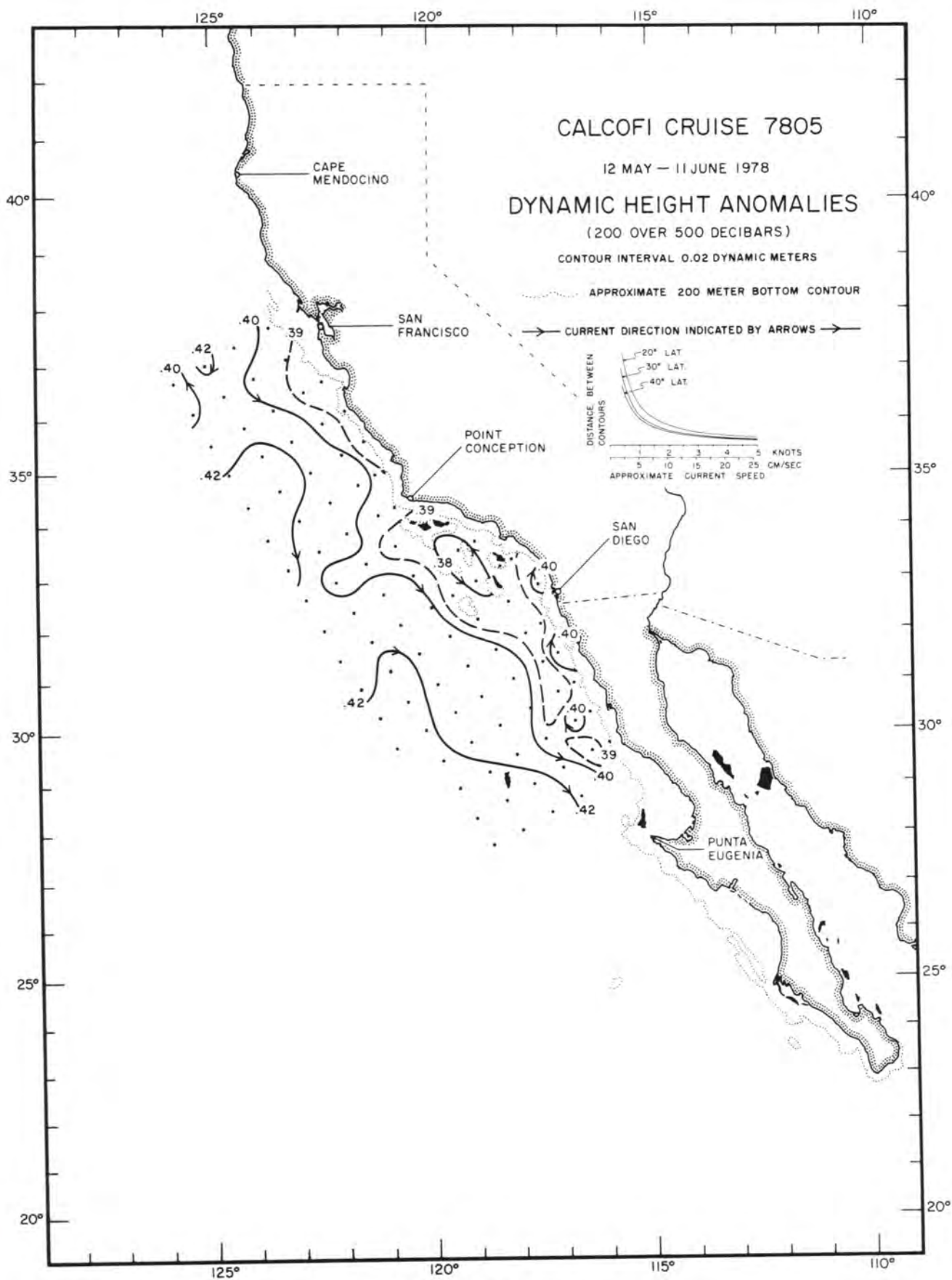


FIGURE 3

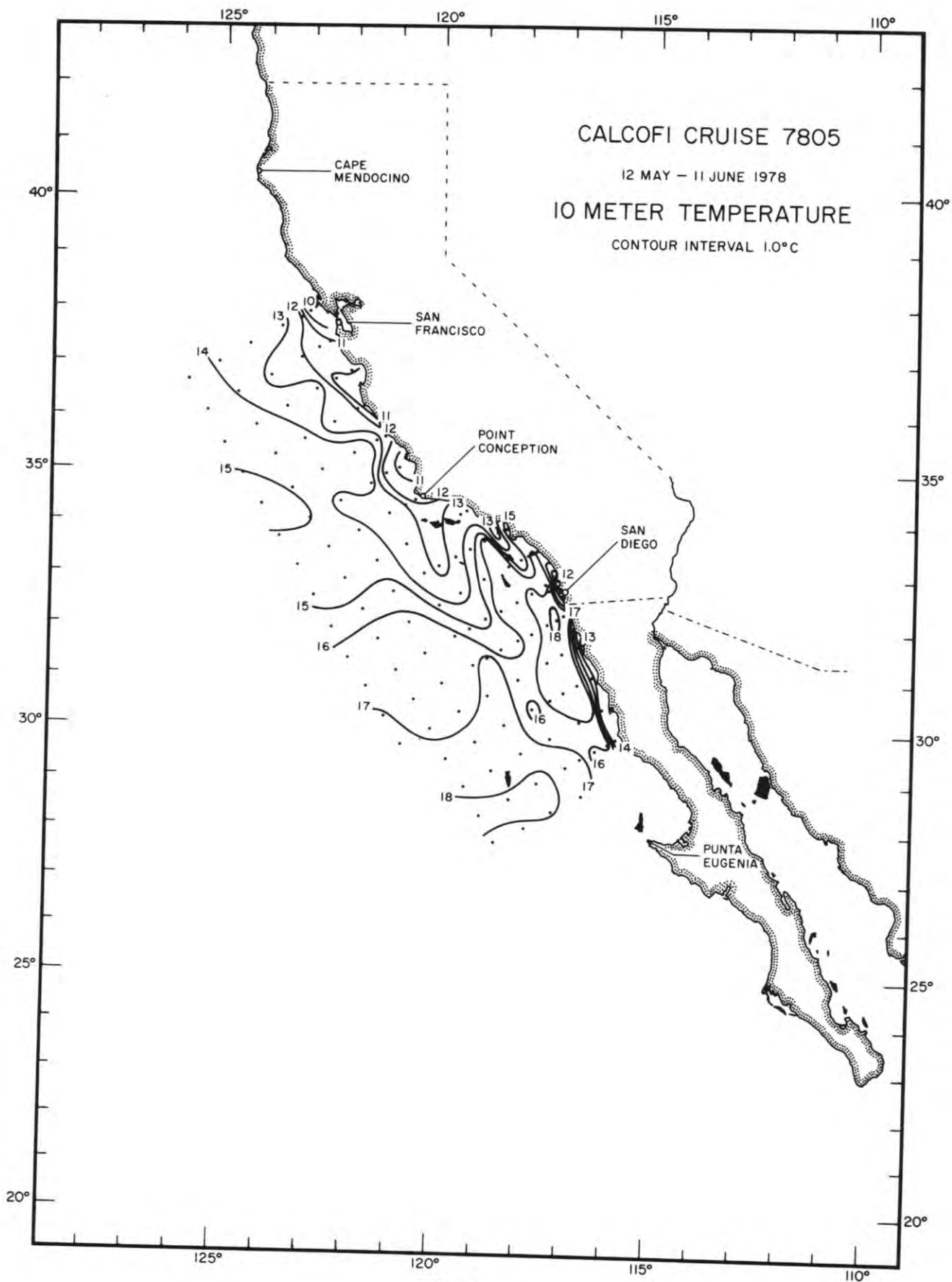


FIGURE 4

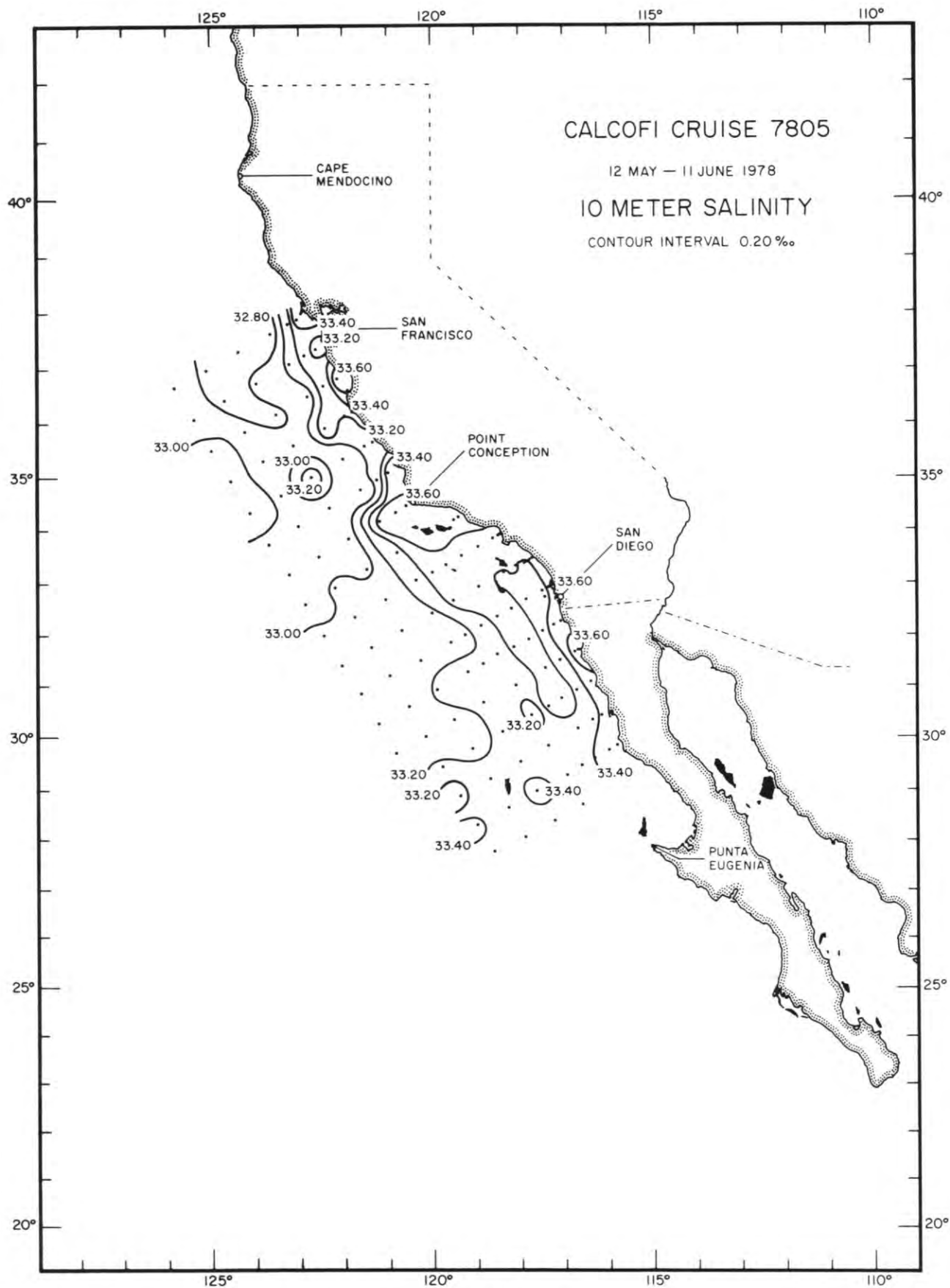


FIGURE 5

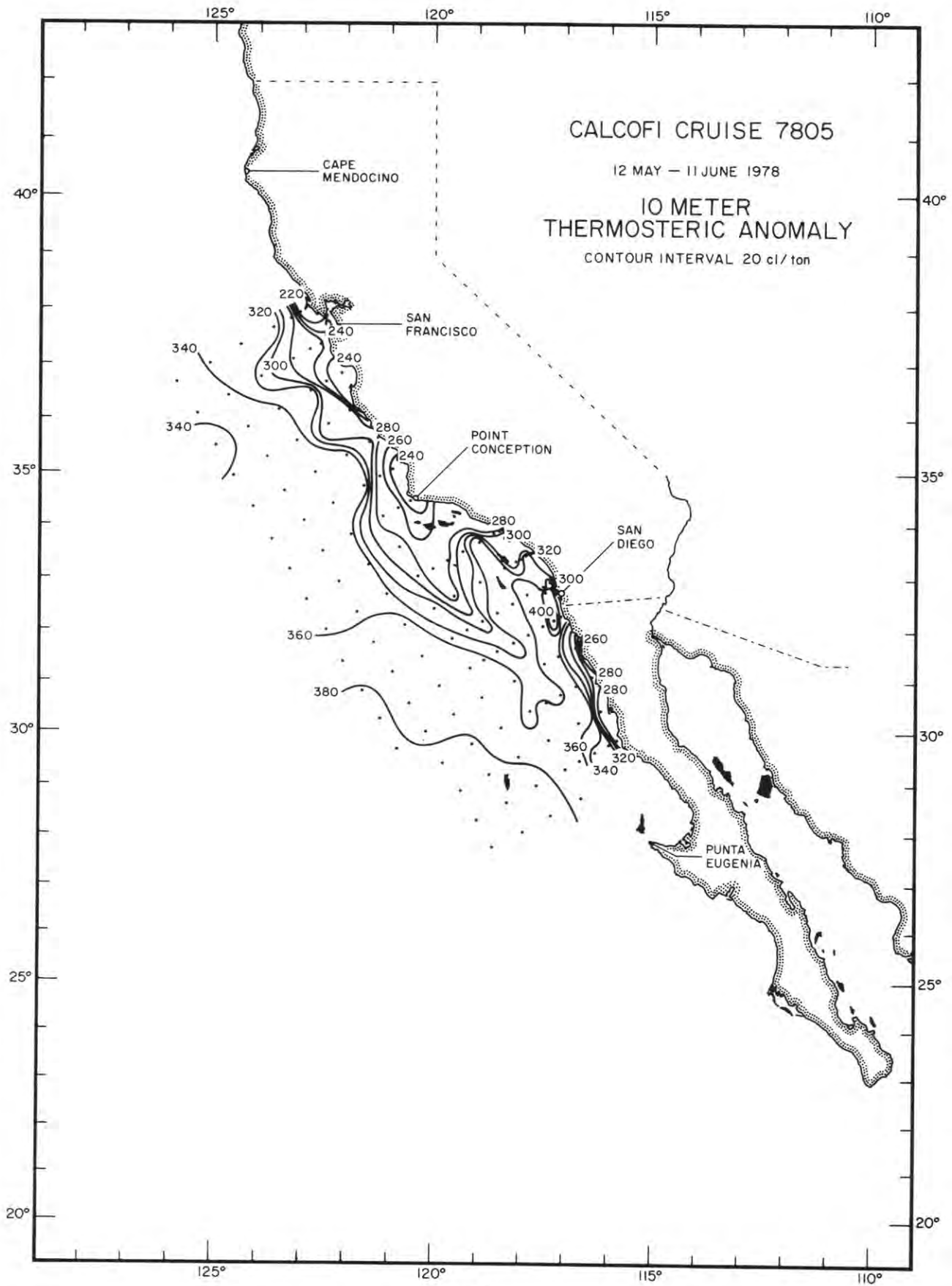


FIGURE 6

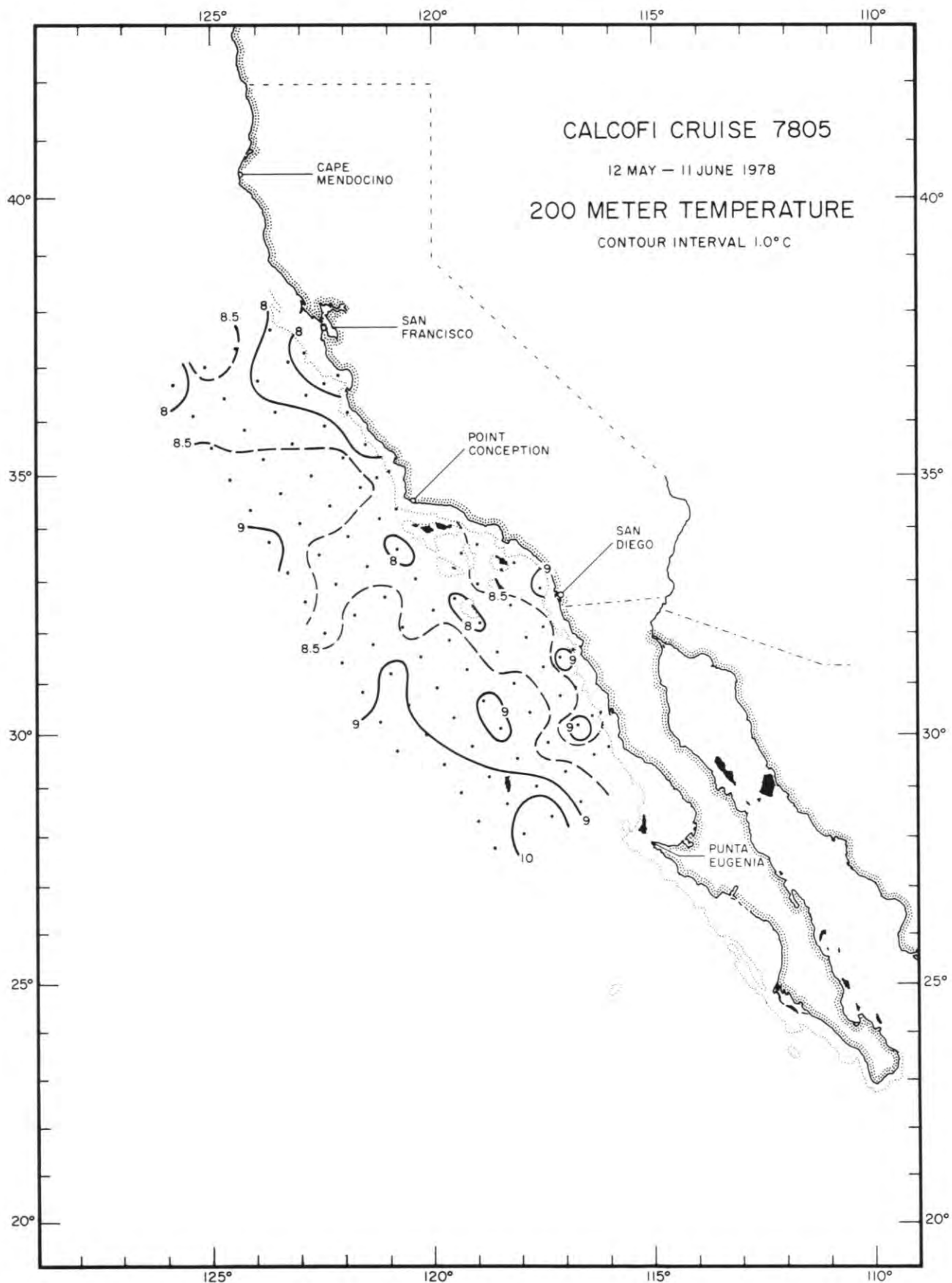


FIGURE 7

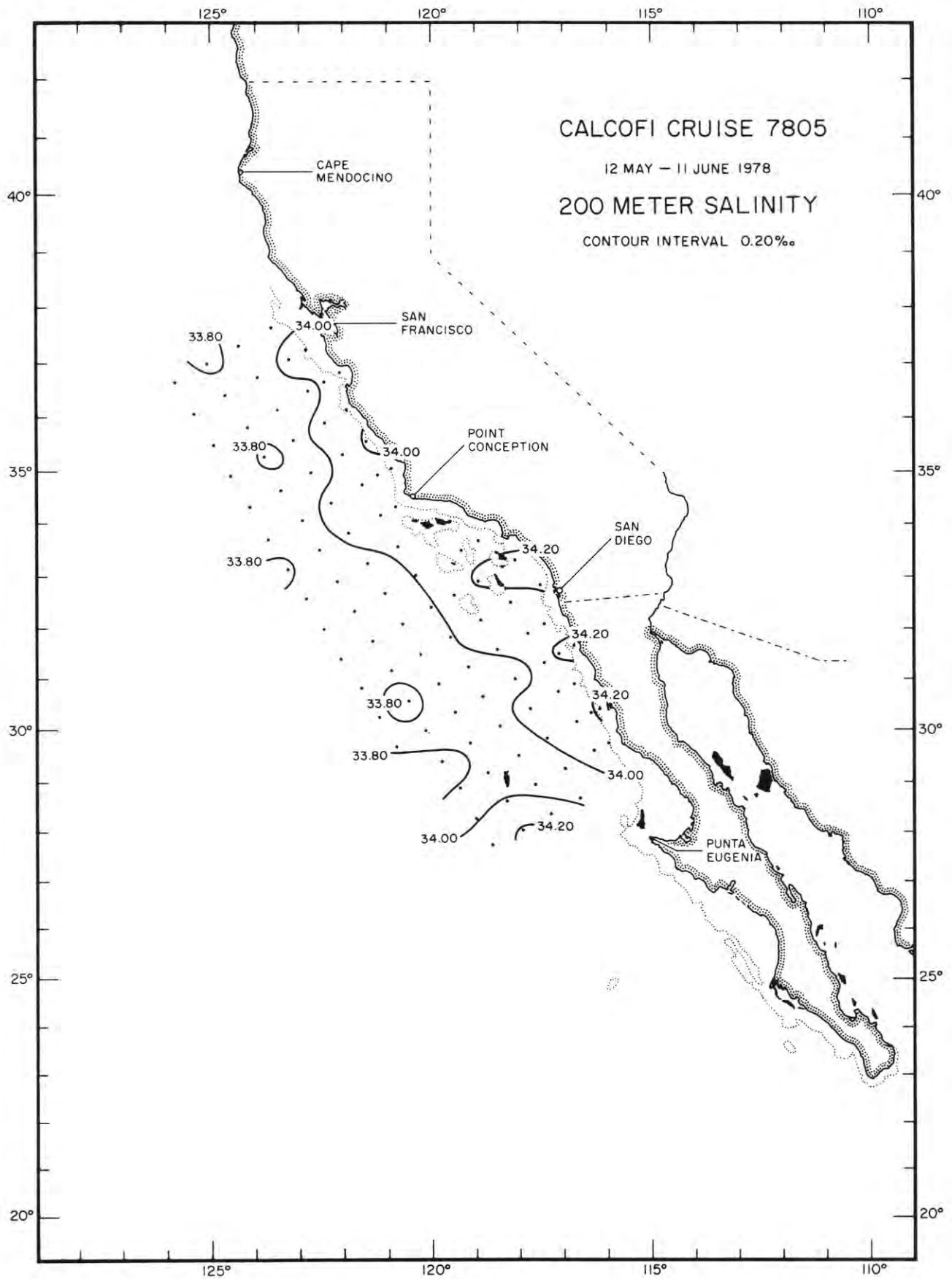


FIGURE 8

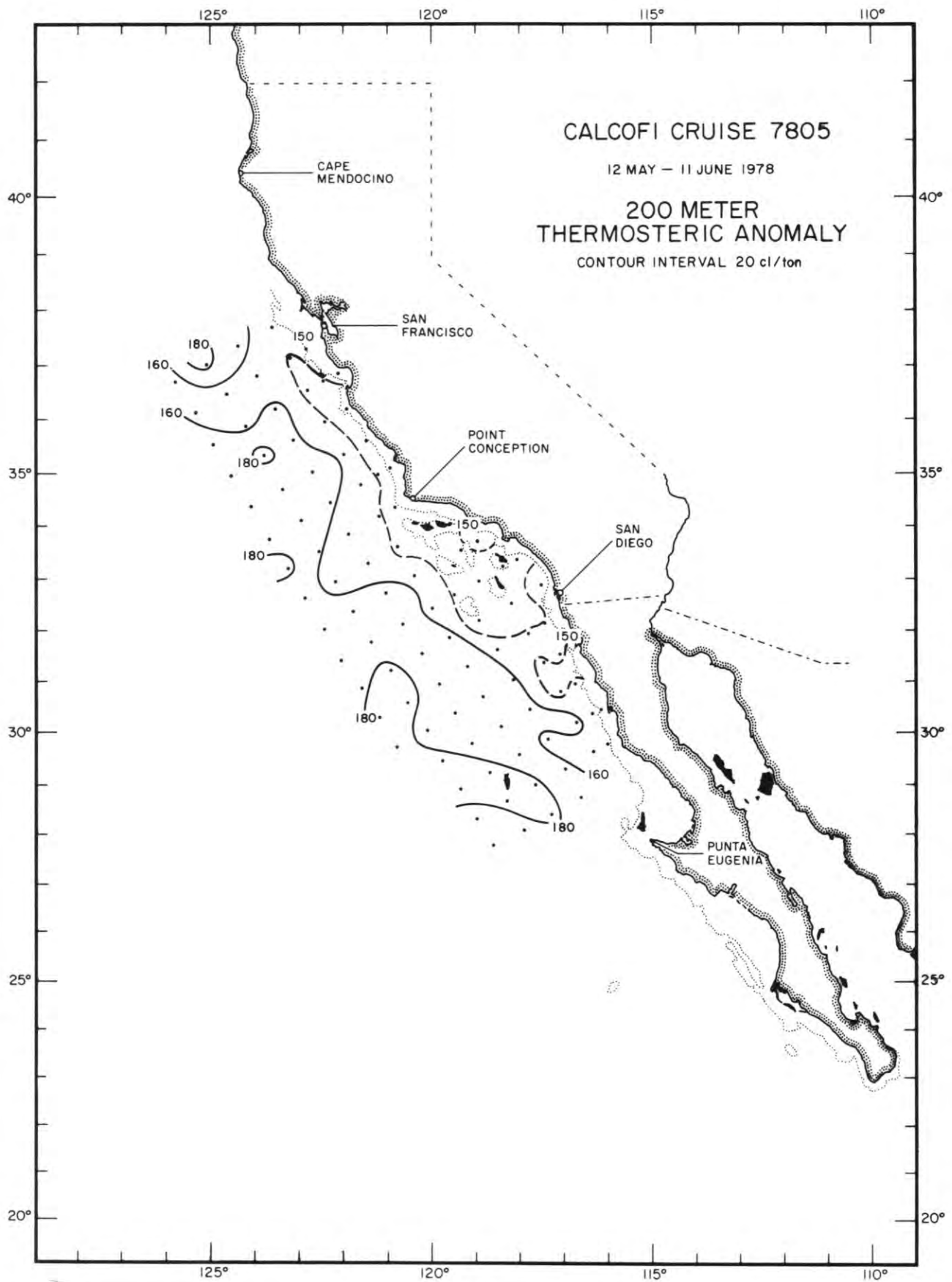


FIGURE 9

PERSONNEL

Cruise 7805

SHIP'S CAPTAIN

Roll, Milton RV David Starr Jordan

PERSONNEL PARTICIPATING IN THE COLLECTION OF DATA

RV David Starr Jordan:

Metoyer, Jack D. (in charge)	Biological Technician NMFS
Bliss, Kenneth A.	Oceanographer NMFS
Devonald, F. Kim	Graduate Student SIO
Fastenau, Henry C.	Marine Technician DCPG*
Fiedler, Paul C.	Graduate Student SIO
Granados, Jose Luis	Oceanographer INP
Johnson, Frank W.	Marine Technician DCPG
Johnson, Treve L.	Marine Technician DCPG
Masten, Douglas M.	Staff Research Associate DCPG
Millan, Roberto	Oceanographer CICESE
Muus, David A. (senior DCPG observer)	Staff Research Associate DCPG
Sanchez, Carol A.	Biological Technician NMFS
Wolfe, Margaret S.	Marine Technician DCPG

* DCPG: Now Physical & Chemical Oceanographic Data Facility (PACODF)

RV DAVID STARR JORDAN

CALCOFI CRUISE 7805

60055

Z	LATITUDE			LONGITUDE			MO/DAY/YR			MESSENGER TIME			BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
	T	S	02	P04	SI03	N02	N03	DT	Z	T	S	02					SIGT	DT	DD
	37	47.0N	123	15.0W	05/15/78	0148	GMT		142M	210	15KT	1	210	3	4				
0	12.42	33.050	7.99	0.34	1.	0.00	0.4	294.9	0	12.42	33.050	7.99	25.019	294.9	0.000				
9	12.02	33.111	8.13	0.54	1.	0.00	0.3	283.2	10	11.92	33.114	8.04	25.162	281.3	0.029				
30	9.87	33.212	5.66	1.00	15.	0.13	12.1	239.5	20	10.91	33.149	6.99	25.373	261.2	0.056				
38	9.42	33.311	5.11	1.44	19.	0.14	15.8	225.2	30	9.87	33.212	5.66	25.601	239.5	0.081				
54	8.81	33.484	4.27	1.73	25.	0.06	20.2	203.1	50	8.92	33.443	4.42	25.934	207.9	0.126				
69	8.63	33.638	4.40	1.84	29.	0.10	22.5	189.0	75	8.57	33.679	4.13	26.173	185.1	0.175				
83	8.51	33.725	3.69	2.05	31.	0.07	24.1	180.8	100	8.55	33.833	3.19	26.297	173.4	0.221				
99	8.55	33.827	3.21	2.20	32.	0.07	25.4	173.9											
118	8.44	33.920	2.94	2.30	36.	0.08	27.0	165.3											

RV DAVID STARR JORDAN

CALCOFI CRUISE 7805

60060

Z	LATITUDE			LONGITUDE			MO/DAY/YR			MESSENGER TIME			BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
	T	S	02	P04	SI03	N02	N03	DT	Z	T	S	02					SIGT	DT	DD
	37	37.0N	123	37.0W	05/15/78	0522	GMT		3165M	240	16KT		270	6	5				
1	13.42	32.774	6.52	0.25	2.	0.00	0.1	333.9	0	13.42	32.774	6.52	24.609	333.9	0.000				
10	13.29	32.774	6.61	0.28	2.	0.00	0.1	331.4	10	13.29	32.774	6.61	24.635	331.4	0.033				
29	11.82	32.774	6.70	0.34	2.	0.00	0.1	304.4	20	12.56	32.774	6.66	24.778	317.8	0.066				
38	11.43	32.831	6.39	0.45	5.	0.06	2.2	293.4	30	11.78	32.776	6.68	24.927	303.6	0.097				
47	10.70	33.044	5.57	0.77	11.	0.11	8.5	265.4	50	10.50	33.065	5.58	25.381	260.5	0.153				
61	9.96	33.068	5.63	0.94	15.	0.12	11.2	251.6	75	9.84	33.094	5.61	25.514	247.8	0.217				
75	9.84	33.094	5.61	1.01	15.	0.12	11.9	247.8	100	9.27	33.337	4.75	25.795	221.0	0.276				
93	9.62	33.278	4.90	1.18	17.	0.08	15.0	230.7	125	8.49	33.556	4.22	26.089	193.1	0.329				
116	8.52	33.468	4.47	1.40	24.	0.04	19.5	200.0	150	8.32	33.736	3.59	26.256	177.3	0.375				
135	8.45	33.630	3.94	1.68	30.	0.09	23.4	187.0	200	7.88	33.947	2.86	26.487	155.4	0.460				
163	8.21	33.814	3.31	1.75	35.	0.01	26.1	169.9	250	6.80	33.955	3.17	26.645	140.3	0.536				
191	8.13	33.949	2.76	2.12	39.	0.02	28.3	158.7	300	6.42	33.980	2.71	26.716	133.6	0.606				
219	7.28	33.941	3.17	2.06	43.	0.00	28.8	147.6	400	5.65	34.037	1.45	26.858	120.2	0.738				
257	6.74	33.959	3.17	2.09	48.	0.00	29.7	139.2	500	5.33	34.169	0.66	27.000	106.7	0.857				
313	6.34	33.985	2.53	2.41	57.	0.00	33.1	132.3											
385	5.72	34.016	1.63	2.64	70.	0.00	37.9	122.5											
455	5.47	34.120	0.89	2.89	81.	0.00	40.7	111.9											
532	5.25	34.194	0.61	3.00	90.	0.00	41.8	103.8											

RV DAVID STARR JORDAN

CALCOFI CRUISE 7805

60070

Z	LATITUDE			LONGITUDE			MO/DAY/YR			MESSENGER TIME			BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
	T	S	02	P04	SI03	N02	N03	DT	Z	T	S	02					SIGT	DT	DD
	37	17.0N	124	22.0W	05/15/78	1142	GMT		3920M	270	18KT	1	270	6	5				
3	13.22	32.745	6.33	0.53	4.	0.00	0.0	332.2	0	13.22	32.745	6.33	24.627	332.2	0.000				
12	13.08	32.739	6.35	0.62	4.	0.00	0.0	330.0	10	13.12	32.741	6.35	24.643	330.7	0.033				
30	12.44	32.723	6.39	0.61	4.	0.00	0.0	319.3	20	12.81	32.733	6.37	24.697	325.5	0.066				
39	12.19	32.713	6.37	0.61	4.	0.01	0.3	315.5	30	12.44	32.723	6.39	24.762	319.3	0.098				
48	12.06	32.702	6.34	0.53	5.	0.03	0.6	314.0	50	12.03	32.698	6.33	24.820	313.8	0.162				
62	11.77	32.700	6.29	0.49	5.	0.06	1.2	309.0	75	11.34	32.808	5.99	25.032	293.6	0.238				
75	11.34	32.808	5.99	0.62	7.	0.13	3.9	293.6	100	10.43	32.939	5.71	25.294	268.7	0.309				
93	10.90	32.898	5.91	0.73	9.	0.14	5.9	279.5	125	9.53	33.200	5.54	25.648	235.0	0.372				
115	9.52	33.065	5.37	0.91	13.	0.08	11.5	244.9	150	9.09	33.404	5.21	25.877	213.2	0.429				
132	9.53	33.280	5.65	1.06	17.	0.11	13.2	229.1	200	8.51	33.850	3.29	26.315	171.7	0.527				
158	8.84	33.450	4.89	1.39	25.	0.11	19.3	206.1	250	7.90	34.044	2.42	26.560	148.4	0.609				
183	8.36	33.682	4.07	1.69	31.	0.09	23.6	181.8	300	6.91	33.977	3.05	26.647	140.1	0.683				
209	8.61	33.927	2.91	1.80	33.	0.02	26.2	167.3	400	5.64	34.002	1.76	26.832	122.6	0.819				
242	8.06	34.046	2.33	1.99	41.	0.01	29.5	150.5	500	5.29	34.141	0.76	26.983	108.3	0.940				
293	7.03	33.980	3.09	1.98	46.	0.00	29.5	141.4											
357	6.10	33.981	2.30	2.35	58.	0.00	34.3	129.7											
423	5.46	34.022	1.48	2.42	73.	0.00	38.7	119.1											
495	5.30	34.134	0.79	2.92	83.	0.00	41.1	108.9											

RV DAVID STARR JORDAN

CALCOFI CRUISE 7805

60080

Z	LATITUDE			LONGITUDE			MO/DAY/YR			MESSENGER TIME			BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
	T	S	02	P04	SI03	N02	N03	DT	Z	T	S	02					SIGT	DT	DD
	36	56.5N	125	04.0W	05/15/78	1704	GMT		4110M	270	18KT	1	270	8	7				
1	13.65	32.753	6.24	0.29	2.	0.01	0.0	339.8	0	13.65	32.753	6.24	24.547	339.8	0.000				
10	13.61	32.753	6.25	0.44	2.	0.00	0.0	339.1	10	13.61	32.753	6.25	24.555	339.1	0.034				
29	12.80	32.801	6.52	0.37	2.	0.00	0.0	320.2	20	13.29	32.783	6.37	24.641	330.8	0.067				
38	12.14	32.777	6.66	0.33	2.	0.00	0.0	309.9	30	12.72	32.799	6.54	24.765	319.0	0.100				
52	11.78	32.822	6.48	0.45	4.	0.03	0.9	300.2	50	11.80	32.815	6.53	24.952	301.3	0.162				
66	11.48	32.839	6.13	0.64	7.	0.07	3.1	293.7	75	11.27	32.872	6.10	25.094	287.7	0.236				
90	10.84	32.946	6.04	0.83	10.	0.09	6.0	274.9	100	10.44	33.006	5.96	25.344	264.0	0.306				
108	10.15	33.053	5.90	1.00	13.	0.10	9.3	255.7	125	9.92	33.129	5.84	25.528	246.4	0.370				
127	9.90	33.136	5.83	1.13	15.	0.11	11.1	245.6	150	9.62	33.249	5.35	25.671	232.8	0.431				
146	9.57	33.207	5.56	1.28	18.	0.13	13.5	235.2	200	8.67	33.732	3.72	26.199	182.7	0.536				
173	9.79	33.517	4.10	1.58	21.	0.06	18.2	215.7	250	7.92	33.970	2.89	26.499	154.2	0.622				
205	8.44	33.766	3.69	1.80	30.	0.03	23.5	176.8	300										

Z	LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
	T	S	O2	P04	SI03	N02	N03	DT						Z	T
2	14.74	32.906	6.04	0.33	4.	0.01	0.0	350.2	0	14.74	32.906	6.04	24.437	350.2	0.000
11	14.72	32.905	6.03	0.31	4.	0.00	0.0	349.9	10	14.72	32.905	6.03	24.441	349.9	0.035
30	14.48	32.904	6.06	0.31	4.	0.00	0.0	345.1	20	14.66	32.905	6.04	24.454	348.7	0.070
39	14.18	32.902	6.08	0.31	4.	0.00	0.0	339.3	30	14.48	32.904	6.06	24.491	345.1	0.105
54	13.86	32.912	6.13	0.31	4.	0.00	0.0	332.3	50	13.92	32.910	6.12	24.611	333.7	0.173
68	13.81	32.913	6.08	0.32	4.	0.00	0.0	331.2	75	12.97	32.992	5.73	24.866	309.4	0.254
92	10.53	33.261	4.69	1.06	14.	0.13	13.8	245.0	100	9.85	33.389	4.38	25.742	226.1	0.321
110	9.25	33.508	4.06	1.46	21.	0.02	19.9	207.9	125	8.82	33.664	3.70	26.123	189.9	0.374
129	8.76	33.699	3.62	1.66	27.	0.01	23.3	186.4	150	8.46	33.842	3.23	26.317	171.4	0.419
147	8.50	33.826	3.27	1.82	31.	0.01	25.3	173.2	200	7.86	33.995	2.75	26.527	151.6	0.502
175	8.15	33.939	2.95	2.01	36.	0.00	27.5	159.8	250	7.22	34.030	2.40	26.646	140.2	0.576
207	7.78	34.004	2.70	2.12	41.	0.00	29.1	149.7	300	6.64	34.048	1.89	26.740	131.3	0.646
234	7.43	34.023	2.53	2.19	45.	0.00	30.3	143.5	400	5.80	34.105	1.09	26.892	116.9	0.775
279	6.86	34.039	2.12	2.34	53.	0.00	33.0	134.8	500	5.11	34.142	0.80	27.005	106.2	0.892
331	6.34	34.062	1.56	2.56	62.		36.2	126.5							
410	5.73	34.110	1.04	2.75	74.		39.3	115.6							
490	5.12	34.128	0.84	2.86	85.	0.01	41.1	107.3							
573	5.07	34.251	0.43					97.6							

Z	LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
	T	S	O2	P04	SI03	N02	N03	DT						Z	T
0	11.25	33.156	8.00	0.16	3.	0.01	0.7	266.4	0	11.25	33.156	8.00	25.318	266.4	0.000
9	11.22	33.149	7.95	0.21	3.	0.01	0.9	266.4	10	11.08	33.186	7.69	25.371	261.3	0.026
19	9.67	33.566	5.13	1.03	17.	0.23	16.6	210.2	20	9.57	33.589	4.98	25.944	206.9	0.050
28	8.99	33.716	4.13	1.51	28.	0.26	23.1	188.6	30	8.91	33.747	3.92	26.173	185.2	0.069
46	8.62	33.931	2.62	1.82	38.	0.16	27.2	167.2	50	8.56	33.952	2.56	26.388	164.8	0.105
70	8.35	33.999	2.25	1.81	42.	0.16	28.6	158.2	75	8.31	34.010	2.21	26.472	156.8	0.145

Z	LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
	T	S	O2	P04	SI03	N02	N03	DT						Z	T
1	11.28	33.214	6.94	0.88	3.	0.15	4.6	262.6	0	11.28	33.214	6.94	25.358	262.6	0.000
10	11.27	33.213	6.94	0.89	3.	0.11	4.8	262.5	10	11.27	33.213	6.94	25.359	262.5	0.026
29	10.18	33.256	5.22	1.38	13.	0.16	12.9	241.2	20	10.78	33.227	6.17	25.457	253.2	0.052
43	9.41	33.557	4.09	1.74	23.	0.15	20.1	206.8	30	10.11	33.275	5.12	25.609	238.8	0.077
52	9.26	33.693	3.68	1.90	26.	0.18	22.6	194.4	50	9.28	33.669	3.75	26.054	196.5	0.120
66	9.20	33.724	3.60	1.99	27.	0.18	23.2	191.2	75	9.18	33.756	3.49	26.137	188.6	0.169
81	9.17	33.783	3.41	2.03	28.	0.20	24.0	186.3	100	8.88	33.867	3.11	26.272	175.8	0.215
100	8.88	33.867	3.11	2.06	31.	0.15	25.3	175.8	125	8.58	33.986	2.63	26.411	162.6	0.258
123	8.59	33.982	2.63	2.17	36.	0.08	27.0	162.9	150	8.52	34.010	2.58	26.439	159.9	0.299
142	8.55	34.000	2.62	2.17	36.	0.04	27.2	161.0	200	8.19	34.060	2.17	26.528	151.4	0.378
176	8.38	34.039	2.37	2.21	39.	0.01	28.3	155.6	250	7.74	34.125	1.65	26.647	140.2	0.453
205	8.15	34.064	2.13	2.25	42.	0.01	29.5	150.5							
244	7.79	34.118	1.70	2.40	49.	0.00	31.6	141.4							

Z	LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
	T	S	O2	P04	SI03	N02	N03	DT						Z	T
1	13.11	32.810	6.53	0.56	2.	0.03	0.7	325.3	0	13.11	32.810	6.53	24.699	325.3	0.000
10	12.11	32.881	6.63	0.56	3.	0.11	1.6	301.7	10	12.11	32.881	6.63	24.947	301.7	0.031
29	10.87	33.144	6.42		13.			260.8	20	11.40	33.020	6.52	25.185	279.0	0.060
40	10.05	33.239	5.54	0.98	18.	0.14	13.2	240.4	30	10.78	33.154	6.33	25.400	258.6	0.087
48	10.05	33.301	5.43	1.28	19.	0.13	14.3	235.8	50	10.02	33.317	5.33	25.657	234.2	0.137
62	9.75	33.408	4.56	1.49	22.	0.12	17.7	223.1	75	9.41	33.515	3.79	25.911	210.0	0.193
76	9.39	33.523	3.74	1.55	24.	0.09	20.7	209.0	100	9.23	33.739	3.14	26.116	190.6	0.243
96	9.26	33.713	3.21	1.76	28.	0.03	23.4	192.9	125	8.90	33.870	2.87	26.270	175.9	0.289
118	9.04	33.833	2.92	1.80	30.	0.02	25.0	180.7	150	8.54	33.961	2.66	26.398	163.8	0.333
138	8.65	33.928	2.78	1.90	34.	0.02	26.6	167.8	200	7.98	34.039	2.42	26.543	150.0	0.413
166	8.43	33.990	2.52	2.01	38.	0.02	27.9	160.0	250	7.35	34.055	2.18	26.647	140.1	0.487
193	8.06	34.030	2.45	2.06	40.	0.01	29.1	151.7	300	6.87	34.086	1.61	26.739	131.5	0.557
221	7.75	34.056	2.30	2.15	45.	0.01	30.3	145.4	400	6.20	34.176	0.82	26.898	116.4	0.686
260	7.22	34.054	2.12	2.15	51.	0.01	32.0	138.4	500	5.64	34.218	0.52	27.002	106.5	0.803
315	6.77	34.102	1.40	2.38	60.	0.01	35.3	129.0							
386	6.30	34.167	0.89	2.44	71.	0.00	38.0	118.2							
456	5.84	34.201	0.62	2.67	80.	0.00	39.9	110.1							
531	5.54	34.228	0.48	2.55	87.	0.03	40.8	104.6							

	LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES					
	37 03.0N	123 12.0W	05/16/78	2300 GMT	2595M	290	24KT	0		330	8	8			
Z	T	S	O2	P04	SI03	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD
1	12.90	32.959	7.11	0.21	1.	0.03	0.4	310.4	0	12.90	32.959	7.11	24.855	310.4	0.000
11	11.33	33.164	7.12	0.40	3.	0.08	3.8	267.2	10	11.45	33.149	7.12	25.276	270.4	0.029
29	10.65	33.234	6.07	0.76	9.	0.16	9.1	250.5	20	10.86	33.219	6.78	25.436	255.2	0.055
39	9.96	33.325	4.83	1.26	19.	0.21	15.6	232.6	30	10.58	33.243	5.94	25.505	248.7	0.081
53	9.79	33.442	4.44	1.42	19.	0.19	17.6	221.2	50	9.81	33.420	4.46	25.773	223.2	0.128
67	9.13	33.522	3.91	1.46	21.	0.15	20.1	205.1	75	9.06	33.624	3.66	26.054	196.4	0.181
90	8.92	33.775	3.28	1.62	27.	0.07	23.8	183.2	100	8.87	33.835	3.11	26.247	178.1	0.228
109	8.83	33.872	3.00	1.80	29.	0.06	25.2	174.6	125	8.68	33.926	2.86	26.349	168.4	0.272
127	8.66	33.932	2.84	1.84	32.	0.05	26.0	167.7	150	8.39	34.001	2.60	26.453	158.6	0.313
147	8.45	33.994	2.63	1.96	35.	0.03	27.5	159.7	200	7.79	34.057	2.27	26.585	146.0	0.391
174	8.08	34.043	2.37	2.09	40.	0.03	28.8	151.0	250	7.37	34.109	1.66	26.687	136.4	0.463
207	7.73	34.060	2.23	2.14	44.	0.02	30.1	144.9	300	6.79	34.128	1.27	26.782	127.3	0.531
236	7.54	34.103	1.80	2.26	49.	0.01	32.1	139.1	400	6.11	34.183	0.81	26.916	114.6	0.657
282	6.96	34.115	1.41	2.42	57.	0.01	34.6	130.5	500	5.58	34.231	0.58	27.019	104.8	0.773
334	6.53	34.154	1.03	2.59	65.	0.01	36.8	122.0							
414	6.03	34.188	0.78	2.75	74.	0.00	38.8	113.3							
493	5.62	34.227	0.60	2.83	83.	0.00	39.9	105.6							
573	5.17	34.279	0.42	2.91	93.	0.00	41.5	96.6							

	LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES					
	36 42.5N	123 55.0W	05/16/78	1654 GMT	3825M	330	30KT	1		330	8	7			
Z	T	S	O2	P04	SI03	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD
1	12.88	32.839	6.56	0.51	4.	0.01	0.1	318.9	0	12.88	32.839	6.56	24.766	318.9	0.000
10	12.84	32.839	6.56	0.59	3.	0.00	0.1	318.2	10	12.84	32.839	6.56	24.774	318.2	0.032
29	12.72	32.838	6.55	0.60	3.	0.01	0.2	316.0	20	12.78	32.839	6.55	24.786	317.0	0.064
39	12.05	32.925	6.73	0.67	3.	0.01	0.3	297.4	30	12.67	32.846	6.58	24.813	314.5	0.095
53	11.20	32.978	6.13	0.90	8.	0.13	4.9	278.7	50	11.38	32.969	6.29	25.149	282.5	0.155
67	10.22	33.070	5.71	1.13	13.	0.11	9.5	255.6	75	9.84	33.132	5.53	25.543	245.0	0.221
90	9.38	33.274	5.08	1.40	20.	0.15	15.6	227.3	100	9.23	33.411	4.49	25.861	214.8	0.279
108	9.13	33.511	4.05	1.63	24.	0.04	19.9	205.9	125	8.74	33.594	3.82	26.079	194.0	0.331
127	8.70	33.599	3.81	1.70	27.	0.01	21.5	193.0	150	8.50	33.742	3.36	26.234	179.4	0.378
145	8.49	33.692	3.56	1.84	31.	0.02	23.8	183.0	200	7.82	33.967	3.35	26.511	153.0	0.463
173	8.52	33.961	2.64	2.07	36.	0.00	27.1	163.5	250	7.25	34.003	2.75	26.621	142.6	0.539
206	7.65	33.967	3.52	2.03	38.	0.00	26.1	150.7	300	6.68	34.018	2.27	26.710	134.2	0.610
233	7.47	34.005	2.87	2.19	43.	0.00	29.1	145.4	400	5.86	34.080	1.15	26.866	119.4	0.741
279	6.86	33.999	2.62	2.32	49.	0.00	31.0	137.8	500	5.17	34.135	0.76	26.993	107.3	0.860
330	6.48	34.051	1.71	2.54	58.	0.00	34.7	129.1							
410	5.77	34.082	1.11	2.69	72.	0.00	38.6	118.2							
490	5.22	34.128	0.80	2.90	84.	0.00	40.7	108.5							
571	4.91	34.195	0.52	3.11	93.	0.00	42.2	100.0							

	LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES					
	36 23.0N	124 38.5W	05/16/78	1051 GMT	3920M	330	25KT								
Z	T	S	O2	P04	SI03	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD
2	13.98	32.753	6.15	0.52	4.	0.01	0.0	346.3	0	13.98	32.753	6.15	24.479	346.3	0.000
11	13.99	32.756	6.15	0.50	4.	0.02	0.0	346.2	10	13.99	32.755	6.15	24.479	346.3	0.035
30	13.83	32.829	6.15	0.49	4.	0.01	0.0	337.8	20	13.92	32.784	6.15	24.515	342.8	0.069
40	13.85	32.876	6.14	0.48	4.	0.01	0.0	334.7	30	13.83	32.829	6.15	24.568	337.8	0.103
54	13.27	32.766	6.20	0.49	3.	0.01	0.0	331.6	50	13.44	32.801	6.19	24.625	332.4	0.170
68	13.25	32.799	6.13	0.48	4.	0.02	0.0	328.8	75	12.39	32.890	5.85	24.900	306.2	0.251
91	10.21	33.191	5.00	0.99	13.	0.11	11.9	246.5	100	9.76	33.333	4.56	25.712	228.9	0.318
109	9.54	33.448	4.19	1.31	20.	0.06	18.1	216.9	125	9.16	33.566	3.88	25.991	202.4	0.372
128	9.12	33.584	3.83	1.51	23.	0.02	21.0	200.3	150	9.07	33.797	3.19	26.187	183.8	0.421
146	9.09	33.770	3.28	1.67	27.	0.01	23.7	186.1	200	8.33	33.980	2.83	26.445	159.4	0.509
174	8.82	33.902	2.86	1.90	31.	0.01	25.9	172.3	250	7.73	34.048	2.34	26.588	145.8	0.587
206	8.22	33.993	2.83	2.01	35.	0.02	27.5	156.7	300	7.29	34.077	1.95	26.674	137.6	0.660
234	7.92	34.037	2.45	2.08	40.	0.01	29.2	149.2	400	6.41	34.152	0.98	26.851	120.8	0.794
277	7.43	34.059	2.19	2.26	45.	0.01	31.0	140.9	500	5.71	34.206	0.64	26.985	108.1	0.915
328	7.13	34.100	1.64	2.36	52.	0.00	33.3	133.8							
405	6.36	34.155	0.94	2.60	66.	0.00	37.5	119.9							
484	5.82	34.201	0.65	2.77	76.	0.00	39.4	109.9							
565	5.22	34.214	0.58	2.84	86.	0.02	41.0	102.0							

RV DAVID STARR JORDAN

CALCOFI CRUISE 7805

63090

Z	LATITUDE			LONGITUDE			MO/DAY/YR		MESSENGER TIME		BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
	T	S	O2	P04	SI03	N02	N03	DT	Z	T					S	O2	SIGT
	36	03.0N	125	20.0W	05/16/78	0513	GMT	4500M	320	20KT							
2	14.85	32.899	6.01	0.50	4.	0.00	0.0	353.0	0	14.85	32.899	6.01	24.408	353.0	0.000		
11	14.84	32.899	6.04	0.39	4.	0.00	0.0	352.8	10	14.84	32.899	6.04	24.411	352.8	0.035		
30	14.57	32.900	6.06	0.39	4.	0.00	0.0	347.2	20	14.77	32.899	6.05	24.426	351.4	0.071		
39	14.25	32.899	6.06	0.38	4.	0.00	0.0	340.9	30	14.57	32.900	6.06	24.469	347.2	0.106		
53	13.90	32.888	6.12	0.36	4.	0.00	0.0	334.8	50	13.95	32.891	6.11	24.590	335.7	0.174		
67	13.85	32.893	6.06	0.38	4.	0.00	0.0	333.4	75	12.97	32.983	5.71	24.859	310.1	0.255		
90	10.98	33.218	4.92	0.92	13.	0.23	11.7	257.2	100	10.19	33.324	4.58	25.635	236.3	0.324		
109	9.66	33.404	4.34	1.29	19.	0.04	18.1	222.0	125	9.06	33.542	4.08	25.990	202.5	0.379		
128	8.99	33.566	4.04	1.45	24.	0.02	20.9	199.7	150	8.75	33.739	3.57	26.193	183.3	0.428		
146	8.79	33.712	3.65	1.55	27.	0.02	23.2	185.9	200	8.20	33.956	2.87	26.446	159.3	0.515		
174	8.49	33.867	3.14	1.83	33.	0.00	26.3	170.0	250	7.43	34.017	2.55	26.607	144.0	0.593		
206	8.13	33.970	2.82	1.96	37.	0.00	28.2	157.2	300	6.69	34.015	2.22	26.707	134.4	0.665		
234	7.72	34.016	2.61	2.01	43.	0.00	29.8	148.0	400	5.70	34.052	1.33	26.864	119.6	0.796		
281	6.90	34.008	2.42	2.21	51.	0.00	32.3	137.7	500	5.22	34.151	0.68	26.999	106.8	0.915		
333	6.39	34.031	1.83	2.29	60.	0.00	35.5	129.5									
412	5.59	34.058	1.26	2.56	66.	0.00	39.3	117.9									
492	5.25	34.142	0.72	2.73	86.	0.00	41.5	107.7									
573	5.05	34.232	0.44	2.82	94.	0.00	42.6	98.8									

RV DAVID STARR JORDAN

CALCOFI CRUISE 7805

67050

Z	LATITUDE			LONGITUDE			MO/DAY/YR		MESSENGER TIME		BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
	T	S	O2	P04	SI03	N02	N03	DT	Z	T					S	O2	SIGT
	36	48.0N	122	05.0W	05/17/78	1604	GMT	380M	310	SKT							
1	11.13	33.686	6.80	0.97	4.	0.05	3.1	225.3	0	11.13	33.686	6.80	25.751	225.3	0.000		
10	11.03	33.691	6.49	1.11	4.		5.0	223.2	10	11.03	33.691	6.49	25.773	223.2	0.022		
29	9.41	33.808	4.00	1.56	20.	0.23	19.3	188.2	20	10.23	33.741	5.23	25.952	206.2	0.044		
43	8.93	33.894	3.21	2.01	32.	0.12	25.2	174.5	30	9.36	33.816	3.92	26.155	186.8	0.064		
57	8.90	33.916	3.07	1.92	34.	0.05	26.2	172.4	50	8.91	33.905	3.14	26.296	173.5	0.100		
72	8.80	33.949	2.88	1.98	35.	0.09	26.7	168.5	75	8.80	33.950	2.86	26.349	168.4	0.143		
86	8.80	33.954	2.83	2.23	35.	0.14	26.7	168.1	100	8.74	33.959	2.86	26.365	166.9	0.185		
105	8.72	33.960	2.87	2.24	35.	0.13	27.1	166.5	125	8.70	33.964	2.79	26.375	165.9	0.227		
129	8.70	33.964	2.77	2.17	36.	0.08	26.8	165.9	150	8.69	33.968	2.74	26.380	165.5	0.269		
158	8.69	33.969	2.72	2.19	36.	0.11	27.1	165.4	200	8.34	34.028	2.36	26.481	155.9	0.351		
191	8.50	34.003	2.51	2.21	39.	0.04	27.6	160.1	250	7.72	34.106	1.74	26.635	141.3	0.428		
224	7.90	34.091	1.95	2.42	47.	0.03	30.9	144.9	300	7.35	34.136	1.42	26.711	134.1	0.499		
257	7.69	34.107	1.70	2.51	50.	0.01	31.9	140.8									
295	7.38	34.136	1.45	2.54	55.			134.4									

RV DAVID STARR JORDAN

CALCOFI CRUISE 7805

67055

Z	LATITUDE			LONGITUDE			MO/DAY/YR		MESSENGER TIME		BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
	T	S	O2	P04	SI03	N02	N03	DT	Z	T					S	O2	SIGT
	36	39.0N	122	26.0W	05/17/78	1912	GMT	2130M	310	17KT							
1	11.24	33.335	7.04	0.84	7.	0.11	6.0	253.0	0	11.24	33.335	7.04	25.459	253.0	0.000		
12	10.88	33.345	6.71	0.92	7.	0.07	6.9	246.2	10	10.93	33.344	6.76	25.521	247.1	0.025		
30	10.84	33.357	6.54	0.97	6.	0.13	7.7	244.6	20	10.86	33.351	6.63	25.538	245.5	0.050		
40	10.84	33.357	6.58	1.00	6.	0.19	7.8	244.6	30	10.84	33.357	6.54	25.547	244.6	0.074		
50	10.32	33.407	5.58	1.42	12.	0.17	12.8	232.3	50	10.32	33.407	5.58	25.676	232.3	0.122		
64	9.82	33.602	4.74	1.69	18.	0.20	17.0	209.9	75	9.56	33.663	4.28	26.004	201.2	0.177		
78	9.50	33.672	4.18	1.86	21.	0.17	19.9	199.7	100	9.21	33.778	3.74	26.149	187.4	0.226		
96	9.29	33.759	3.86	1.97	26.	0.14	21.9	190.0	125	8.82	33.878	3.10	26.289	174.1	0.271		
121	8.85	33.865	3.15	2.08	30.	0.04	24.7	175.5	150	8.64	33.955	2.82	26.378	165.7	0.314		
139	8.74	33.917	2.98	2.17	32.	0.05	25.6	170.0	200	8.06	34.064	2.36	26.552	149.1	0.395		
166	8.47	34.006	2.60	2.31	37.	0.02	27.4	159.4	250	7.53	34.106	1.84	26.662	138.8	0.469		
194	8.11	34.057	2.42	2.39	41.	0.01	28.9	150.4	300	6.96	34.110	1.48	26.745	130.8	0.538		
222	7.87	34.085	2.13	2.49	44.	0.01	30.3	145.0	400	6.41	34.212	0.89	26.900	116.2	0.667		
258	7.43	34.110	1.76	2.65	51.	0.01	32.4	137.1	500	5.76	34.259	0.51	27.019	104.9	0.783		
312	6.85	34.111	1.41	2.72	58.	0.01	35.1	129.3									
384	6.52	34.200	0.99	2.90	68.	0.01	37.4	118.5									
453	6.02	34.240	0.59	3.01	78.	0.01	38.9	109.3									
529	5.64	34.267	0.46	3.10	85.	0.03	40.1	102.8									

RV DAVID STARR JORDAN

CALCOFI CRUISE 7805

67060

Z	LATITUDE			LONGITUDE			MO/DAY/YR		MESSENGER TIME		BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
	T	S	O2	P04	SI03	N02	N03	DT	Z	T					S	O2	SIGT
	36	28.0N	122	47.5W	05/17/78	2336	GMT	2975M	320	21KT							
2	13.58	32.814	6.35	0.46	2.	0.01	0.0	334.0	0	13.58	32.814	6.35	24.608	334.0	0.000		
11	13.35	32.824	7.43U	0.45	2.	0.00	0.1	328.9	10	13.40	32.829	6.42	24.656	329.4	0.033		
30	11.45	33.007	6.59	0.64	3.	0.09	3.3	280.8	20	12.52	32.901	6.50	24.884	307.7	0.065		
40	10.80	33.063	5.78	0.92	10.	0.16	7.9	265.6	30	11.45	33.007	6.59	25.166	280.8	0.095		
49	10.18	33.073	5.46	1.06	13.	0.10	11.0	254.7	50	10.13	33.080	5.44	25.454	253.5	0.148		
64	9.74	33.222	5.03	1.29	17.	0.14	14.4	236.7	75	9.69	33.374	4.39	25.756	224.8	0.208		
78	9.69	33.414	4.21	1.45	20.	0.04	18.0	221.7	100	9.25	33.601	3.67	26.005	201.1	0.262		
97	9.31	33.577	3.72	1.60	25.	0.01	21.0	203.8	125	8.86	33.781	3.26	26.208	181.8	0.310		
120	8.90	33.745	3.37	1.70	29.	0.01	23.5	185.1	150	8.54	33.894	3.06	26.346	168.7	0.355		
139	8.74	33.865	3.03	1.81	32.	0.00	25.5	173.8	200	7.57	33.966	3.12	26.547	149.7	0.436		
167	8.17	33.914	3.21	1.87	34.	0.01	26.0	161.9	250	7.01	34.008	2.51	26.658	139.1	0.510		
195	7.61	33.955	3.20	1.93	39.	0.01	27.2	151.0	300	6.47	34.032	1.97	26.750	130.4	0.579		
222	7.4																

E	LATITUDE			LONGITUDE			MO/DAY/YR	MESSENGER	TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
	T	S	O2	P04	SI03	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD	
	36	08.0N	123	29.5W	05/18/78	0522	GMT		3165M	330	23KT					
2	13.71	32.747	6.24	0.34	3.	0.02	0.0	341.4	0	13.71	32.747	6.24	24.530	341.4	0.000	
11	13.71	32.746	6.24	0.28	3.	0.01	0.0	341.5	10	13.71	32.747	6.24	24.529	341.5	0.034	
30	13.72	32.747	6.25	0.26	3.	0.00	0.0	341.6	20	13.71	32.747	6.24	24.528	341.6	0.068	
40	13.62	32.750	6.27	0.26	3.	0.00	0.0	339.5	30	13.72	32.747	6.25	24.528	341.6	0.103	
49	13.33	32.774	6.27	0.28	3.	0.00	0.1	332.2	50	13.28	32.776	6.26	24.639	331.0	0.170	
64	12.44	32.822	6.18	0.41	5.	0.07	1.1	312.0	75	11.87	32.917	6.23	25.018	294.9	0.249	
77	11.76	32.937	6.24	0.50	5.	0.06	2.6	291.4	100	9.89	33.200	5.15	25.588	240.8	0.316	
96	10.04	33.152	5.23	0.87	12.	0.07	10.4	246.6	125	9.31	33.452	4.61	25.878	213.2	0.373	
120	9.48	33.411	4.82	1.34	20.	0.00	17.9	218.7	150	8.70	33.651	3.73	26.131	189.1	0.424	
139	8.88	33.556	4.02	1.61	25.	0.01	21.0	198.8	200	8.18	33.938	2.97	26.434	160.3	0.513	
167	8.52	33.785	3.41	1.94	31.	0.00	24.8	176.5	250	7.51	33.999	2.83	26.581	146.4	0.592	
196	8.22	33.925	3.01	2.02	35.	0.00	26.8	161.8	300	6.88	34.013	2.42	26.680	137.0	0.665	
223	7.93	33.984	2.82	2.06	39.	0.00	28.1	153.3	400	6.11	34.109	1.14	26.857	120.2	0.798	
261	7.33	33.999	2.83	2.14	44.	0.01	29.0	144.0	500	5.15	34.173	0.71	27.026	104.2	0.916	
317	6.72	34.021	2.17	2.35	54.	0.02	32.8	134.4								
388	6.23	34.098	1.24	2.62	66.	0.00	36.9	122.5								
458	5.50	34.153	0.79	2.78	80.	0.00	39.3	109.7								
535	4.90	34.182	0.64	2.91	93.	0.03	40.9	100.9								

E	LATITUDE			LONGITUDE			MO/DAY/YR	MESSENGER	TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
	T	S	O2	P04	SI03	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD	
	35	48.0N	124	12.0W	05/18/78	1049	GMT		3920M	330	26KT					
1	14.43	32.883	6.04	0.52	5.	0.00	0.0	345.7	0	14.43	32.883	6.04	24.485	345.7	0.000	
9	14.43	32.883	6.03	0.44	5.	0.00	0.0	345.7	10	14.43	32.883	6.03	24.485	345.7	0.035	
34	14.45	32.882	6.05	0.42	5.	0.00	0.0	346.1	20	14.44	32.882	6.04	24.483	345.9	0.069	
43	14.45	32.882	6.10	0.40	4.	0.00	0.0	346.1	30	14.45	32.882	6.05	24.480	346.1	0.104	
57	13.96	32.866	6.08	0.43	5.	0.00	0.0	337.6	50	14.20	32.874	6.09	24.525	341.9	0.173	
71	11.95	32.912	5.67	0.63	6.	0.17	3.8	296.6	75	11.54	32.953	5.56	25.108	286.4	0.252	
95	10.09	33.184	5.22	1.04	13.	0.00	12.2	245.1	100	9.81	33.226	5.28	25.621	237.5	0.318	
113	9.24	33.331	5.34	0.98	15.	0.01	11.4	220.9	125	8.90	33.453	4.90	25.945	206.8	0.374	
132	8.78	33.528	4.57	1.30	22.	0.01	17.3	199.4	150	8.75	33.735	3.86	26.189	183.6	0.423	
160	8.73	33.825	3.52	1.63	29.	0.00	23.3	176.6	200	8.34	33.977	2.80	26.442	159.6	0.511	
187	8.45	33.945	3.00	1.91	34.	0.00	25.9	163.6	250	7.62	34.008	2.69	26.573	147.2	0.589	
225	8.06	34.005	2.59	2.07	39.	0.00	28.3	153.6	300	7.09	34.046	2.11	26.677	137.3	0.663	
252	7.58	34.008	2.70	2.12	42.	0.01	29.2	146.7	400	5.87	34.042	1.59	26.835	122.3	0.797	
298	7.12	34.047	2.12	2.23	50.	0.06	30.1	137.6	500	5.20	34.132	0.79	26.987	107.9	0.918	
359	6.18	34.006	2.02	2.46	60.	0.00	34.7	128.8	600	4.76	34.226	0.47	27.111	96.2	1.026	
452	5.59	34.106	0.99	2.72	75.	0.07	38.0	114.3								
538	4.93	34.155	0.70	2.91	91.	0.02	41.5	103.2								
609	4.76	34.238	0.43	3.05	100.	0.00	42.9	95.2								

E	LATITUDE			LONGITUDE			MO/DAY/YR	MESSENGER	TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
	T	S	O2	P04	SI03	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD	
	35	28.0N	124	55.0W	05/18/78	1604	GMT		4310M	330	20KT			330	7	7
1	14.45	33.190	6.07	0.35	4.	0.01	0.0	323.6	0	14.45	33.190	6.07	24.717	323.6	0.000	
11	14.44	33.191	6.03	0.39	4.	0.00	0.1	323.3	10	14.44	33.191	6.03	24.720	323.3	0.032	
29	14.46	33.192	6.02	0.31	4.	0.00	0.1	323.6	20	14.45	33.191	6.03	24.718	323.5	0.065	
39	14.46	33.192	6.06	0.30	4.	0.00	0.1	323.6	30	14.46	33.192	6.02	24.717	323.6	0.097	
53	14.18	33.204	6.05	0.28	4.	0.00	0.1	317.2	50	14.26	33.202	6.05	24.765	319.0	0.162	
67	13.74	33.211	6.09	0.27	4.	0.00	0.1	308.0	75	13.03	33.144	5.90	24.973	299.3	0.239	
90	11.46	33.061	5.38	0.66	8.	0.11	6.6	277.0	100	10.63	33.142	5.02	25.417	257.0	0.309	
109	9.99	33.241	4.76	1.04	15.	0.01	14.0	239.3	125	9.21	33.355	4.72	25.820	218.7	0.369	
128	9.11	33.377	4.71	1.14	19.	0.02	15.4	215.5	150	8.90	33.625	3.92	26.079	194.1	0.422	
146	8.93	33.584	4.06	1.42	23.	0.00	19.8	197.5	200	8.56	33.933	2.78	26.373	166.1	0.513	
174	8.76	33.822	3.21	1.74	30.	0.00	23.9	177.3	250	7.85	33.994	2.78	26.528	151.4	0.595	
207	8.49	33.949	2.71	1.93	35.	0.00	27.0	163.9	300	7.03	33.991	2.89	26.642	140.7	0.670	
236	8.08	33.991	2.61	1.97	38.	0.01	28.2	154.9	400	5.72	34.033	1.47	26.847	121.2	0.805	
282	7.31	33.989	3.10	1.95	42.	0.01	27.6	144.5	500	5.56	34.186	0.61	26.986	108.0	0.926	
332	6.57	33.998	2.31	2.18	53.	0.00	31.8	134.2								
412	5.61	34.044	1.35	2.50	71.	0.00	38.0	119.1								
492	5.58	34.176	0.66	2.69	80.	0.01	39.2	108.9								
572	5.29	34.248	0.40	2.86	89.	0.00	40.8	100.3								

Z	LATITUDE			LONGITUDE			MO/DAY/YR			MESSENGER TIME			BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
	T	S	02	P04	SI03	N02	N03	DT	Z	T	S	02	SIGT	DT	DD				
1	12.74	33.156	6.46	0.60	1.	0.05	2.7	293.0	0	12.74	33.156	6.46	25.039	293.0	0.000				
10	12.33	33.162	6.41	0.60	1.	0.08	3.1	285.0	10	12.33	33.162	6.41	25.122	285.0	0.029				
29	11.24	33.253	6.26	0.71	3.	0.08	6.1	259.1	20	11.84	33.191	6.33	25.237	274.1	0.057				
39	10.25	33.387	5.24	1.09	12.	0.10	12.7	232.6	30	11.14	33.268	6.17	25.424	256.3	0.083				
48	9.60	33.426	4.36	1.38	19.	0.12	16.3	219.4	50	9.57	33.466	4.22	25.847	216.1	0.131				
62	9.40	33.668	3.66	1.59	24.	0.07	20.4	198.4	75	9.21	33.749	3.43	26.127	189.5	0.182				
76	9.19	33.751	3.42	1.71	26.	0.04	21.7	189.0	100	8.73	33.827	3.26	26.264	176.5	0.228				
95	8.78	33.805	3.32	1.81	29.	0.04	23.6	178.8	125	8.51	33.924	2.96	26.374	166.1	0.271				
118	8.59	33.901	3.04	1.87	33.	0.03	24.1	168.9	150	8.10	33.958	3.02	26.462	157.7	0.312				
137	8.34	33.952	2.89	1.95	35.	0.03	26.2	161.5	200	7.42	34.016	2.86	26.607	143.9	0.389				
166	7.79	33.956	3.23	1.98	38.	0.00	26.3	153.4	250	7.51	34.157	1.46	26.704	134.7	0.461				
192	7.33	33.981	3.23	2.01	42.	0.00	27.6	145.3	300	7.15	34.189	1.10	26.781	127.4	0.529				
220	7.72	34.110	1.82	2.24	47.	0.00	31.0	141.0	400	6.56	34.225	0.71	26.890	117.1	0.656				
258	7.41	34.160	1.36	2.37	54.	0.02	33.0	133.0	500	5.93	34.269	0.41	27.006	106.1	0.774				
314	7.07	34.194	1.05	2.52	60.	0.01	34.5	126.0											
383	6.69	34.217	0.78	2.62	68.	0.00	36.5	119.4											
453	6.17	34.251	0.51	2.70	76.		37.6	110.3											
529	5.83	34.277	0.39	2.82	84.		39.0	104.3											

Z	LATITUDE			LONGITUDE			MO/DAY/YR			MESSENGER TIME			BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
	T	S	02	P04	SI03	N02	N03	DT	Z	T	S	02	SIGT	DT	DD				
1	12.24	33.345	6.77	0.50	0.	0.14	5.0	269.9	0	12.24	33.345	6.77	25.281	269.9	0.000				
11	12.22	33.344	6.63	0.49	0.	0.05	5.0	269.7	10	12.22	33.344	6.64	25.284	269.7	0.027				
30	11.33	33.391	6.50	0.62	1.	0.18	6.4	250.4	20	11.92	33.357	6.57	25.350	263.4	0.054				
38	10.87	33.431	6.06	0.88	6.	0.18	8.5	239.7	30	11.33	33.391	6.50	25.486	250.4	0.079				
53	10.17	33.458	4.78	1.21	13.	0.17	13.4	226.1	50	10.30	33.458	5.02	25.720	228.2	0.127				
67	9.54	33.415	4.59	1.41	18.	0.12	16.6	219.3	75	9.32	33.474	4.34	25.894	211.7	0.183				
91	9.08	33.628	3.82	1.65	24.	0.05	21.3	196.5	100	9.01	33.663	3.68	26.092	192.8	0.234				
110	8.95	33.705	3.53	1.78	26.	0.09	23.0	188.8	125	8.81	33.846	3.16	26.267	176.2	0.280				
127	8.79	33.866	3.11	1.88	31.	0.05	24.9	174.5	150	8.62	33.995	2.59	26.413	162.4	0.323				
147	8.65	33.985	2.63	2.04	34.	0.05	27.1	163.6	200	8.11	34.059	2.27	26.541	150.2	0.403				
175	8.34	34.040	2.38	2.15	39.	0.03	28.4	155.0	250	7.56	34.078	2.03	26.635	141.3	0.478				
208	8.04	34.063	2.24	2.21	41.	0.03	29.3	149.0	300	6.92	34.071	1.83	26.720	133.3	0.549				
235	7.82	34.091	2.01	2.28	45.	0.02	30.8	143.8	400	6.18	34.135	1.02	26.869	119.1	0.680				
281	7.04	34.051	2.06	2.33	51.	0.02	32.6	136.3	500	5.56	34.234	0.53	27.024	104.4	0.797				
333	6.79	34.115	1.37	2.55	59.	0.02	35.4	128.2											
412	6.06	34.138	0.99	2.71	70.	0.01	38.4	117.5											
491	5.60	34.225	0.56	2.86	82.	0.02	40.2	105.5											
573	5.30	34.291	0.37	2.91	90.	0.03	41.5	97.1											

Z	LATITUDE			LONGITUDE			MO/DAY/YR			MESSENGER TIME			BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
	T	S	02	P04	SI03	N02	N03	DT	Z	T	S	02	SIGT	DT	DD				
1	14.61	32.871	6.03	0.19	4.		0.1	350.2	0	14.61	32.871	6.03	24.438	350.2	0.000				
10	14.60	32.871	6.01	0.15	4.		0.1	350.0	10	14.60	32.871	6.01	24.440	350.0	0.035				
28	14.44	32.870	6.03	0.13	4.		0.1	346.8	20	14.51	32.871	6.02	24.459	348.2	0.070				
37	14.42	32.871	6.02	0.14	4.		0.1	346.4	30	14.43	32.870	6.03	24.475	346.6	0.105				
51	14.37	32.874	6.06	0.14	4.		0.1	345.1	50	14.37	32.874	6.06	24.491	345.1	0.174				
64	13.96	32.924	6.05	0.14	4.		0.1	333.3	75	12.99	32.951	5.95	24.831	312.8	0.257				
87	11.65	33.013	5.72	0.37	7.		4.4	283.9	100	10.21	33.167	5.24	25.508	248.3	0.327				
105	9.73	33.229	5.08	0.95	14.		12.4	236.0	125	8.95	33.360	4.98	25.865	214.4	0.386				
123	8.95	33.336	5.05	1.03	17.		14.1	216.2	150	8.85	33.627	4.27	26.089	193.1	0.437				
141	8.96	33.536	4.33	1.34	22.		18.8	201.5	200	8.49	33.947	2.76	26.395	164.1	0.528				
169	8.58	33.788	4.16	1.65	27.		21.1	177.2	250	7.39	33.972	3.55	26.576	146.8	0.608				
201	8.48	33.949	2.73	1.98	35.		27.1	163.8	300	6.61	33.966	3.10	26.680	137.0	0.681				
228	7.82	33.967	3.66	1.85	35.		25.4	153.0	400	5.67	34.030	1.55	26.850	120.9	0.814				
274	7.00	33.971	3.44	1.95	43.		27.5	141.7	500	5.00	34.105	0.91	26.989	107.7	0.934				
324	6.30	33.965	2.73	2.30	53.		32.1	133.3											
403	5.65	34.033	1.51	2.69	69.		37.1	120.4											
482	5.09	34.089	1.01	2.92	82.		40.4	109.9											
563	4.77	34.170	0.61	3.22	94.		42.2	100.4											

Z	LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		DD
	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT		
2	14.91	32.946	5.97	0.36	4.	0.00	0.0	350.8	0	14.91	32.946	5.97	24.432	350.8	0.000	
12	14.88	32.949	5.97	0.33	4.	0.00	0.0	350.0	10	14.89	32.949	5.97	24.438	350.2	0.035	
31	14.77	32.968	5.98	0.33	4.	0.00	0.0	346.3	20	14.85	32.958	5.97	24.454	348.6	0.070	
40	14.76	32.969	5.96	0.34	4.	0.00	0.0	346.1	30	14.78	32.968	5.98	24.476	346.5	0.105	
54	14.74	32.970	6.05	0.32	4.	0.00	0.0	345.6	50	14.75	32.970	6.02	24.484	345.8	0.174	
68	14.46	32.966	6.01	0.30	4.	0.00	0.0	340.2	75	14.33	32.978	6.03	24.579	336.8	0.260	
91	13.60	33.002	6.07	0.31	4.	0.00	0.0	320.6	100	12.58	33.008	5.95	24.954	301.0	0.340	
110	11.40	33.030	5.77	0.54	5.	0.14	4.4	278.3	125	10.36	33.084	5.47	25.418	256.9	0.411	
129	10.16	33.106	5.38	0.80	11.	0.05	9.6	252.0	150	9.40	33.331	4.81	25.771	223.4	0.471	
147	9.48	33.306	4.84	1.08	17.	0.03	15.0	226.4	200	8.82	33.781	3.53	26.214	181.2	0.574	
175	8.92	33.519	4.54	1.42	22.	0.02	18.4	202.2	250	8.34	33.995	2.90	26.455	158.3	0.661	
208	8.81	33.857	3.21	1.69	30.	0.01	24.9	175.5	300	7.58	34.005	3.12	26.575	147.0	0.740	
237	8.49	33.969	2.89	1.84	34.	0.01	26.9	162.4	400	5.92	33.978	2.37	26.778	127.7	0.882	
283	7.90	34.017	2.91	1.94	39.	0.01	28.2	150.4	500	5.35	34.093	1.07	26.938	112.6	1.008	
335	6.90	33.970	3.45	1.94	45.	0.01	28.3	140.5								
414	5.76	33.987	2.04	2.34	65.	0.01	36.2	125.2								
495	5.38	34.088	1.11	2.63	79.	0.00	40.3	113.2								
573	4.94	34.150	0.77	2.79	91.	0.00	42.3	103.7								

Z	LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		DD
	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT		
1	15.05	33.114	5.96	0.40	5.	0.04	0.1	341.4	0	15.05	33.114	5.96	24.530	341.4	0.000	
11	14.99	33.115	5.96	0.35	4.	0.02	0.1	340.1	10	15.00	33.115	5.96	24.542	340.3	0.034	
29	14.93	33.116	5.95	0.32	4.	0.01	0.1	338.8	20	14.95	33.115	5.95	24.553	339.3	0.068	
57	14.91	33.116	5.98	0.29	4.	0.01	0.1	338.4	30	14.93	33.116	5.95	24.558	338.8	0.102	
66	14.45	33.134	6.02	0.28	4.	0.01	0.0	327.7	50	14.92	33.116	5.97	24.560	338.6	0.170	
80	14.35	33.119	6.03	0.26	4.	0.00	0.0	326.8	75	14.39	33.125	6.03	24.680	327.1	0.254	
94	12.18	33.070	5.90	0.45	6.	0.06	2.5	289.1	100	11.58	33.072	5.75	25.192	278.4	0.330	
108	10.99	33.092	5.52	0.66	9.	0.08	7.2	266.7	125	10.16	33.223	5.03	25.560	243.4	0.396	
132	9.96	33.294	4.82	0.95	15.	0.05	14.0	234.9	150	9.58	33.484	4.28	25.861	214.8	0.454	
150	9.58	33.484	4.28	1.25	19.	0.02	18.3	214.8	200	8.76	33.884	3.55	26.304	172.7	0.552	
178	9.04	33.765	3.60	1.64	27.	0.01	23.2	185.7	250	7.77	33.956	3.20	26.510	153.1	0.636	
206	8.67	33.902	3.54	1.64	30.	0.02	24.2	170.1	300	7.42	34.044	2.41	26.630	141.8	0.712	
234	7.96	33.926	3.38	1.76	35.	0.02	26.5	158.0	400	6.40	34.100	1.23	26.813	124.4	0.850	
280	7.57	34.016	2.77	1.92	49.	0.03	28.6	145.9	500	6.06	34.225	0.62	26.955	111.0	0.974	
329	7.18	34.074	1.91	2.19	51.	0.02	33.1	136.4								
410	6.30	34.104	1.17	2.43	65.	0.04	36.9	122.9								
489	6.12	34.217	0.64	2.62	74.	0.02	39.0	112.3								
567	5.50	34.230	0.49	2.79	84.	0.02	40.8	104.0								

Z	LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		DD
	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT		
2	13.77	33.040	6.23	0.68	3.	0.08	1.9	321.1	0	13.77	33.040	6.23	24.743	321.1	0.000	
11	13.65	33.076	6.28	0.71	3.	0.05	1.8	316.1	10	13.66	33.073	6.27	24.790	316.7	0.032	
30	11.35	33.313	6.00	0.98	5.	0.13	6.9	256.5	20	12.67	33.172	6.15	25.063	290.6	0.062	
40	10.53	33.426	5.33	1.33	12.	0.20	12.1	234.4	30	11.35	33.313	6.00	25.422	256.5	0.090	
49	9.95	33.471	4.85	1.60	17.	0.17	15.7	221.6	50	9.88	33.470	4.81	25.799	220.6	0.138	
63	9.14	33.458	4.44	1.65	22.	0.08	18.1	210.0	75	8.94	33.562	4.19	26.024	199.3	0.190	
77	8.93	33.583	4.15	1.71	23.	0.03	20.0	197.6	100	8.80	33.775	3.36	26.212	181.4	0.238	
96	8.80	33.753	3.45	1.95	28.	0.05	23.7	183.0	125	8.68	33.881	3.08	26.315	171.7	0.283	
119	8.81	33.864	3.10	2.03	31.	0.04	25.0	174.9	150	8.21	33.934	3.01	26.428	160.9	0.325	
138	8.35	33.910	3.05	2.12	34.	0.03	26.5	164.8	200	7.55	33.990	2.98	26.569	147.6	0.404	
185	8.07	33.958	2.98	2.19	37.	0.01	27.2	157.2	250	7.01	34.033	2.36	26.677	137.3	0.477	
192	7.67	33.985A	3.00	2.23	40.	0.01	28.0	149.6	300	6.86	34.132	1.38	26.776	127.9	0.545	
220	7.27	34.003	2.84	2.30	44.	0.00	28.8	142.9	400	6.13	34.196	0.74	26.923	114.0	0.671	
266	6.98	34.040	2.24	2.44	51.	0.00	32.0	136.3	500	5.69	34.259	0.52	27.028	104.0	0.786	
330	6.84	34.153	1.20	2.75	60.	0.00	35.6	126.1								
379	6.36	34.199	0.79	2.88	70.	0.00	38.0	108.6								
450	5.67	34.195	0.65	2.96	80.	0.00	40.1	108.6								
527	5.70	34.288	0.44	3.04	84.	0.03	40.2	101.9								

A) IT IS ASSUMED THAT TWO DIGITS WERE REVERSED IN RECORDING THE CONDUCTIVITY RATIO. THE LISTED OBSERVED AND INTERPOLATED VALUES INCORPORATE THE CORRECTION OF 0.071 PPT.

Z	LATITUDE			LONGITUDE			MO/DAY/YR		MESSENGER TIME		BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
	T	S	02	P04	SI03	N02	N03	DT	Z	T	S	02	SIGT	DT	DD		
2	14.91	32.919	5.96	0.59	4.	0.01	0.1	352.8	0	14.91	32.919	5.96	24.411	352.8	0.000		
11	14.83	32.931	5.97	0.53	4.	0.00	0.1	350.2	10	14.84	32.931	5.97	24.434	350.5	0.035		
40	14.56	32.951	5.99	0.50	4.	0.00	0.1	343.3	20	14.77	32.943	5.98	24.459	348.2	0.070		
63	13.70	32.919	6.08	0.51	4.	0.01	0.2	328.6	30	14.68	32.950	5.98	24.484	345.8	0.105		
82	11.19	33.041	5.76	0.76	7.	0.05	4.5	273.8	50	14.37	32.945	6.03	24.546	339.9	0.174		
96	10.19	33.116	5.42	1.01	10.	0.03	8.8	251.7	75	12.14	32.981	5.91	25.017	295.0	0.253		
110	9.49	33.234	5.03	1.29	15.	0.02	13.3	231.9	100	9.96	33.148	5.30	25.536	245.7	0.322		
129	9.03	33.402	4.75	1.37	18.	0.02	14.7	212.5	125	9.10	33.361	4.82	25.842	216.6	0.380		
147	8.68	33.703	4.00	1.59	25.	0.02	18.5	184.9	150	8.66	33.729	3.92	26.199	182.7	0.430		
171	8.52	33.828	3.35	1.94	30.	0.02	24.3	173.3	200	8.56	34.027	2.47	26.446	159.2	0.517		
194	8.66	34.011	2.48	2.21	35.	0.01	26.3	161.8	250	7.79	34.067	2.21	26.594	145.2	0.596		
217	8.21	34.042	2.44	2.32	38.	0.00	28.3	153.0	300	7.03	34.065	1.97	26.701	135.1	0.668		
245	7.88	34.068	2.21	2.46	43.	0.00	29.9	146.4	400	6.48	34.186	0.90	26.870	119.0	0.800		
277	7.30	34.055	2.21	2.46	47.	0.09	30.5	139.4	500	5.41	34.164	0.69	26.988	107.9	0.919		
324	6.84	34.089	1.63	2.70	55.	0.01	34.2	130.8									
385	6.67	34.195	0.92	2.86	64.	0.06	36.0	120.8									
456	5.71	34.140	0.84	2.99	75.	0.01	39.4	113.1									
532	5.33	34.207	0.54	3.12	85.	0.00	41.1	103.7									

Z	LATITUDE			LONGITUDE			MO/DAY/YR		MESSENGER TIME		BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
	T	S	02	P04	SI03	N02	N03	DT	Z	T	S	02	SIGT	DT	DD		
1	14.77	33.227	6.02	0.47	3.	0.00	0.0	327.4	0	14.77	33.227	6.02	24.678	327.4	0.000		
10	14.70	33.229	6.02	0.48	3.	0.00	0.0	325.8	10	14.70	33.229	6.02	24.694	325.8	0.033		
30	14.37	33.220	6.08	0.49	3.	0.00	0.0	319.8	20	14.54	33.224	6.04	24.724	322.9	0.065		
39	14.29	33.226	6.15	0.50	3.	0.00	0.0	317.8	30	14.37	33.220	6.08	24.757	319.8	0.097		
53	14.02	33.197	5.75	0.50	4.	0.00	0.0	314.5	50	14.09	33.205	5.83	24.803	315.4	0.161		
68	13.53	33.188	6.06	0.55	4.	0.01	0.5	305.6	75	12.99	33.138	6.01	24.974	299.1	0.238		
91	11.74	33.045	5.71	0.76	8.	0.21	5.6	283.1	100	11.41	33.064	5.58	25.217	276.0	0.311		
109	11.12	33.099	5.45	0.89	10.	0.21	7.7	268.4	125	10.12	33.143	5.22	25.505	248.6	0.377		
129	9.93	33.175	5.11	1.05	14.	0.06	11.8	243.2	150	10.39	33.624	3.78	25.832	217.5	0.436		
147	10.42	33.585	3.90	1.67	19.	0.01	17.8	220.8	200	8.79	33.829	3.40	26.256	177.2	0.536		
175	9.69	33.789	3.26	1.51	25.	0.02	21.9	194.0	250	7.78	33.970	3.18	26.519	152.3	0.621		
207	8.55	33.835	3.46	1.80	25.	0.01	22.1	173.2	300	6.98	33.992	2.91	26.650	139.9	0.696		
235	8.06	33.965	3.12	1.83	30.	0.01	24.0	156.5	400	6.07	34.056	1.46	26.820	123.7	0.832		
280	7.25	33.978	3.26	1.95	36.	0.00	26.8	144.5	500	5.19	34.089	1.02	26.954	111.0	0.955		
331	6.64	34.016	2.20	2.20	53.	0.00	33.1	133.7									
410	6.00	34.060	1.40	2.51	66.	0.00	37.6	122.5									
490	5.25	34.083	1.06	2.73	80.	0.00	40.1	112.2									
573	4.91	34.153	0.70	2.93	91.	0.00	41.9	103.2									

Z	LATITUDE			LONGITUDE			MO/DAY/YR		MESSENGER TIME		BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
	T	S	02	P04	SI03	N02	N03	DT	Z	T	S	02	SIGT	DT	DD		
1	15.01	32.955	5.94		4.	0.00	0.2	352.2	0	15.01	32.955	5.94	24.417	352.2	0.000		
11	14.97	32.954	5.96		4.	0.00	0.2	351.4	10	14.97	32.954	5.96	24.425	351.4	0.035		
29	14.68	32.947	6.00		4.	0.01	0.1	346.0	20	14.84	32.951	5.98	24.450	349.1	0.070		
39	14.65	32.951	6.12		4.	0.00	0.1	345.1	30	14.68	32.948	6.01	24.483	345.9	0.105		
53	14.52	32.952	6.00	0.64	4.	0.00	0.1	342.4	50	14.56	32.952	6.03	24.511	343.2	0.174		
67	14.26	32.931	6.05	0.56	4.	0.00	0.1	338.8	75	14.08	32.956	6.05	24.615	333.3	0.259		
92	13.17	33.017	6.06	0.57	4.	0.00	0.0	311.3	100	12.22	33.025	5.91	25.036	293.2	0.338		
109	11.14	33.049	5.68	0.80	7.	0.10	4.9	272.4	125	10.07	33.144	5.19	25.513	247.8	0.406		
128	9.95	33.169	5.09	1.14	13.	0.03	11.1	244.0	150	9.53	33.466	4.33	25.854	215.4	0.465		
147	9.58	33.430	4.41	1.46	19.	0.04	16.5	218.8	200	8.84	33.855	3.49	26.268	176.1	0.564		
175	9.17	33.708	3.85	1.76	24.	0.04	20.5	191.9	250	8.14	34.019	2.71	26.504	153.7	0.649		
208	8.74	33.889	3.38	1.88	30.	0.03	24.3	172.0	300	7.53	34.054	2.24	26.621	142.6	0.725		
236	8.33	33.996	2.85	2.01	36.	0.03	26.9	158.1	400	6.68	34.137	1.14	26.805	125.2	0.864		
283	7.73	34.040	2.46	2.21	43.	0.01	29.5	146.4	500	5.93	34.202	0.58	26.953	111.1	0.989		
335	7.15	34.080	1.77	2.43	53.	0.01	32.9	135.5									
414	6.59	34.148	1.03	2.64	63.	0.01	37.1	123.2									
492	5.98	34.196	0.61	2.77	75.		38.2	112.1									
570	5.55	34.254	0.40	2.90	85.		40.6	102.8									

E	LATITUDE			LONGITUDE			MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
	T	S	O2	P04	SI03	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD			
0	15.66	33.121	5.91	0.48	3.	0.01	0.0	353.6	0	15.66	33.121	5.91	24.402	353.6	0.000			
9	15.25	33.126	5.93	0.47	3.	0.00	0.1	344.7	10	15.22	33.126	5.93	24.503	344.0	0.035			
27	14.98	33.131	5.96	0.45	3.	0.00	0.0	338.7	20	15.03	33.130	5.95	24.547	339.8	0.069			
37	14.89	33.135	5.96	0.46	3.	0.00	0.0	336.6	30	14.95	33.132	5.96	24.566	338.0	0.103			
46	14.87	33.135	5.97	0.47	3.	0.00	0.1	336.1	50	14.73	33.138	5.99	24.616	333.2	0.170			
60	14.37	33.146	6.02	0.47	3.	0.00	0.0	325.2	75	14.23	33.142	6.01	24.726	322.8	0.253			
74	14.29	33.147	6.01	0.48	3.	0.00	0.0	323.5	100	12.10	33.058	5.98	25.086	288.5	0.330			
92	12.83	33.054	6.06	0.51	4.	0.00	0.0	302.2	125	10.11	33.134	5.31	25.500	249.1	0.398			
116	10.73	33.063	5.63	0.77	8.	0.01	6.3	264.5	150	9.29	33.424	4.50	25.861	214.8	0.456			
134	9.63	33.231	4.97	1.10	15.	0.10	13.5	234.3	200	8.68	33.864	3.40	26.300	173.1	0.555			
162	9.20	33.565	4.20	1.60	22.	0.00	19.3	203.0	250	8.21	34.013	2.86	26.489	155.1	0.639			
190	8.78	33.804	3.55	1.69	28.	0.01	23.0	178.9	300	7.66	34.071	2.21	26.616	143.1	0.716			
218	8.53	33.943	3.18	1.83	32.	0.00	25.3	164.9	400	6.71	34.155	1.12	26.814	124.3	0.855			
256	8.15	34.020	2.80	1.98	37.	0.00	27.5	153.7	500	5.85	34.186	0.71	26.951	111.3	0.979			
312	7.53	34.081	2.04	2.21	47.	0.00	31.3	140.6										
383	6.90	34.151	1.23	2.48	60.	0.00	35.5	127.0										
452	6.18	34.161	0.90	2.57	70.	0.00	38.1	117.2										
527	5.72	34.205	0.62	2.76	80.	0.00	40.0	108.4										

E	LATITUDE			LONGITUDE			MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
	T	S	O2	P04	SI03	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD			
1	11.31	33.449	6.53	0.53	6.	0.02	5.4	245.8	0	11.31	33.449	6.53	25.534	245.8	0.000			
11	10.81	33.453	5.95	0.66	8.	0.01	8.2	237.0	10	10.84	33.452	5.99	25.620	237.7	0.024			
29	10.75	33.492	5.80	0.77	8.	0.10	9.2	235.1	20	10.78	33.476	5.86	25.650	234.8	0.048			
43	10.37	33.553	5.07	1.00	14.	0.19	13.3	222.3	30	10.74	33.498	5.76	25.674	232.5	0.071			
55	9.50	33.528	4.39	1.25	21.	0.09	18.0	210.3	50	9.86	33.534	4.67	25.852	215.6	0.116			
69	9.14	33.678	3.78	1.41	25.	0.03	21.2	193.7	75	9.08	33.733	3.58	26.136	188.7	0.167			
81	9.05	33.784	3.41	1.49	28.	0.00	22.8	184.5	100	9.09	33.941	3.02	26.297	173.4	0.213			
101	9.09	33.948	3.01	1.60	29.	0.01	23.9	172.9	125	8.92	34.038	2.78	26.399	163.7	0.255			
124	8.94	34.035	2.80	1.71	32.	0.01	25.5	164.2	150	8.50	34.100	2.26	26.512	153.0	0.296			
142	8.60	34.085A	2.43	1.88	36.	0.00	27.6	155.4	200	8.26	34.127	1.81	26.571	147.3	0.372			
174	8.33	34.123	1.86	2.11	44.	0.02	29.3	148.7	250	7.95	34.154	1.48	26.639	141.0	0.446			
204	8.25	34.127	1.80	2.12	44.	0.02	29.5	147.2										
242	8.00	34.150	1.53	2.28	50.	0.01	31.0	141.9										

E	LATITUDE			LONGITUDE			MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
	T	S	O2	P04	SI03	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD			
1	14.20	33.139	6.29	0.46	1.	0.07	1.5	322.3	0	14.20	33.139	6.29	24.731	322.3	0.000			
11	11.10	33.186	5.70	0.80	8.	0.21	7.3	261.6	10	11.33	33.179	5.75	25.320	266.2	0.029			
30	9.91	33.255	5.10	1.12	15.	0.10	13.1	237.0	20	10.54	33.217	5.33	25.491	249.9	0.055			
44	10.16	33.476	5.11	1.33	19.	0.26	15.6	224.6	30	9.91	33.255	5.10	25.628	237.0	0.080			
54	9.98	33.505	4.98	1.40	20.	0.20	16.2	219.6	50	10.09	33.500	5.06	25.787	221.8	0.126			
68	9.14	33.572	4.25	1.55	23.	0.04	19.3	201.5	75	9.14	33.643	3.90	26.055	196.4	0.178			
82	9.15	33.700	3.61	1.70	26.	0.09	22.0	192.2	100	9.08	33.850	3.23	26.226	180.1	0.226			
96	9.10	33.827	3.30	1.78	29.	0.07	23.4	182.0	125	8.96	33.956	2.79	26.328	170.4	0.270			
119	8.99	33.927	2.91	1.87	31.	0.09	24.6	172.9	150	8.74	34.029	2.46	26.420	161.7	0.312			
138	8.88	34.009	2.56	1.99	34.	0.01	26.6	165.2	200	8.35	34.123	1.91	26.554	149.0	0.392			
186	8.56	34.047	2.35	2.06	38.	0.04	27.2	157.7	250	7.89	34.146	1.63	26.642	140.7	0.466			
193	8.41	34.117	1.95	2.26	42.	0.01	29.4	150.3	300	7.33	34.178	1.11	26.746	130.7	0.536			
221	8.15	34.128	1.82	2.35	45.	0.01	30.6	145.7	400	6.65	34.219	0.80	26.873	118.7	0.666			
258	7.81	34.151	1.57	2.40	49.	0.01	31.7	139.2	500	5.96	34.265	0.55	26.999	106.8	0.785			
313	7.20	34.185	0.98	2.57	59.	0.00	34.6	128.4										
364	6.96	34.203	0.91	2.62	63.	0.00	35.6	123.9										
421	6.46	34.229	0.73	2.73	71.	0.00	37.5	115.5										
479	6.08	34.256	0.59	2.89	78.	0.00	39.0	108.9										

A) AN ERROR OF -0.005 (0.197 PPT) IN THE CONDUCTIVITY RATIO HAS BEEN ASSUMED FOR THIS VALUE.

RV DAVID STARR JORDAN

CALCOFI CRUISE 7805

77060

Z	LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER TIME		BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		DD
	T	S	O2	P04	SI03	N02	N03	DT					Z	T	
0	14.33	32.814	6.15	0.41	3.	0.01	0.0	348.7	0	14.33	32.814	6.15	24.453	348.7	0.000
9	14.15	32.805	6.14	0.43	3.	0.00	0.0	345.8	10	14.15	32.810	6.14	24.487	345.5	0.035
28	14.22	32.908	6.09	0.45	1.	0.00	0.0	339.7	20	14.19	32.862	6.11	24.519	342.5	0.069
38	13.60	32.809	6.30	0.42	3.	0.00	0.1	334.8	30	14.09	32.889	6.13	24.560	338.5	0.103
48	13.51	32.791	6.28	0.43	3.	0.00	0.1	334.4	50	13.24	32.828	6.20	24.686	326.6	0.170
82	11.34	33.095	5.63	0.70	6.	0.16	5.7	272.4	75	10.25	33.164	5.25	25.498	249.2	0.242
76	10.20	33.167	5.22	0.98	13.	0.07	11.2	248.1	100	9.76	33.630	3.83	25.945	206.8	0.300
95	9.79	33.547	4.09	1.36	20.	0.06	18.4	213.5	125	9.63	33.898	2.79	26.175	185.0	0.349
118	9.69	33.852	3.03	1.70	27.	0.03	23.4	189.3	150	9.37	33.992	2.04	26.290	174.0	0.395
136	9.52	33.945	2.46	1.85	31.	0.04	25.8	179.8	200	8.80	34.094	1.92	26.461	157.8	0.479
164	9.21	34.026	1.76	1.86	36.	0.01	27.1	169.0	250	8.46	34.143	1.71	26.552	149.1	0.558
192	8.84	34.088	1.94	1.97	40.	0.02	28.5	158.8	300	7.95	34.185	1.41	26.662	138.7	0.633
219	8.73	34.102	1.88	2.05	41.	0.00	29.3	156.1	400	7.00	34.206	0.98	26.814	124.3	0.770
256	8.40	34.151	1.67	2.14	45.	0.00	30.7	147.6	500	6.16	34.262	0.50	26.971	109.5	0.893
310	7.85	34.189	1.35	2.27	51.	0.00	32.8	136.9							
379	7.16	34.194	1.11	2.43	59.	0.00	35.4	127.2							
449	6.64	34.236	0.69	2.56	68.	0.01	37.7	117.3							
524	5.91	34.273	0.44	2.76	81.	0.00	40.1	105.6							

RV DAVID STARR JORDAN

CALCOFI CRUISE 7805

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Z	LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER TIME		BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		DD
	T	S	O2	P04	SI03	N02	N03	DT					Z	T	
0	13.81	32.840	6.19	0.57	3.	0.00	0.2	336.6	0	13.81	32.840	6.19	24.581	336.6	0.000
11	13.71	32.866	6.25	0.58	3.	0.00	0.2	332.7	10	13.72	32.864	6.25	24.618	333.1	0.033
30	12.50	33.066	6.26	0.67	5.	0.08	3.8	295.2	20	13.23	32.951	6.25	24.783	317.3	0.066
39	11.86	33.146	6.25	0.67	4.	0.14	4.7	277.8	30	12.50	33.066	6.26	25.015	295.2	0.097
53	10.83	33.200	5.37	0.86	11.	0.18	9.2	256.0	50	11.02	33.187	5.56	25.384	260.1	0.152
67	10.67	33.368	5.49	0.94	11.	0.21	11.3	240.9	75	10.40	33.403	5.17	25.660	233.9	0.215
91	9.91	33.474	4.28	1.17	19.	0.11	16.6	220.7	100	9.94	33.594	3.87	25.886	212.4	0.271
110	9.99	33.724	3.47	1.39	24.	0.22	20.7	203.5	125	9.68	33.812	3.00	26.100	192.1	0.322
128	9.60	33.822	2.93	1.48	28.	0.02	22.5	190.1	150	9.31	33.907	2.75	26.234	179.3	0.369
147	9.34	33.895	2.78	1.68	30.	0.06	24.5	180.7	200	8.74	34.042	2.31	26.430	160.7	0.456
174	9.09	33.991	2.50	1.91	34.	0.06	25.5	169.7	250	8.09	34.076	2.10	26.556	148.7	0.535
206	8.66	34.050	2.27	2.00	38.	0.04	26.8	158.9	300	7.14	34.065	1.88	26.685	136.5	0.609
233	8.43	34.083	2.07	2.11	41.	0.04	28.9	153.1	400	6.32	34.138	0.95	26.853	120.7	0.742
279	7.45	34.057	2.12	2.21	48.	0.02	31.3	141.3	500	5.71	34.223	0.54	26.997	106.9	0.862
329	6.81	34.085	1.48	2.43	58.	0.01	34.6	130.7							
407	6.29	34.144	0.92	2.61	69.	0.00	37.7	119.8							
485	5.78	34.210	0.59	2.75	80.		38.9	108.7							
566	5.50	34.278	0.36	2.94	88.		40.5	100.4							

RV DAVID STARR JORDAN

CALCOFI CRUISE 7805

77080

Z	LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER TIME		BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		DD
	T	S	O2	P04	SI03	N02	N03	DT					Z	T	
1	15.17	32.915	5.95	0.63	4.	0.00	0.1	358.4	0	15.17	32.915	5.95	24.352	358.4	0.000
11	15.07	32.916	5.95	0.56	4.	0.00	0.1	356.3	10	15.08	32.916	5.95	24.372	356.5	0.036
30	14.81	32.950	5.98	0.54	3.	0.00	0.1	348.5	20	14.97	32.932	5.96	24.408	353.1	0.071
39	14.62	32.950	6.00	0.54	3.	0.00	0.1	344.6	30	14.81	32.950	5.98	24.456	348.5	0.106
53	14.18	32.952	6.07	0.52	3.	0.00	0.1	335.6	50	14.27	32.952	6.06	24.572	337.4	0.175
67	14.05	32.949	6.06	0.48	4.	0.00	0.1	333.3	75	13.58	32.965	5.97	24.722	323.1	0.258
95	11.84	33.062	5.74	0.63	6.	0.02	3.4	283.6	100	11.33	33.105	5.52	25.263	271.6	0.333
109	10.49	33.183	5.14	0.88	12.	0.02	9.8	251.6	125	9.67	33.251	4.91	25.665	233.4	0.397
127	9.61	33.258	4.89	1.09	16.	0.02	13.8	232.0	150	9.37	33.451	4.39	25.869	214.0	0.453
146	9.43	33.403	4.52	1.27	19.	0.02	16.5	218.5	200	8.71	33.922	2.99	26.340	169.2	0.551
176	8.98	33.760	3.53	1.63	28.	0.02	22.2	185.2	250	8.06	34.030	2.67	26.524	151.8	0.633
205	8.66	33.943	2.91	1.75	32.	0.01	25.0	166.9	300	7.38	34.068	2.06	26.654	139.5	0.708
232	8.29	34.004	2.82	1.85	36.	0.01	26.7	156.9	400	6.58	34.154	1.00	26.831	122.7	0.845
276	7.73	34.053	2.38	2.03	43.	0.00	29.5	145.4	500	5.98	34.232	0.63	26.970	109.5	0.967
325	7.04	34.082	1.73	2.22	54.	0.00	33.0	134.0							
405	6.56	34.159	0.96	2.47	65.	0.00	36.7	122.0							
483	6.08	34.221	0.95U	2.60	75.	0.00	37.6	111.5							
564	5.65	34.268	0.40	2.74	84.	0.01	39.6	102.9							

	LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES					
	33 43.0N	123 39.0W	05/21/78	0354 GMT		4120M	280	13KT							
E	T	S	O2	P04	SI03	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD
1	15.29	32.955	5.92	0.55	4.	0.00	0.0	358.0	0	15.29	32.955	5.92	24.356	358.0	0.000
10	14.99	32.950	5.95	0.54	4.	0.00	0.0	352.1	10	14.99	32.950	5.95	24.417	352.1	0.036
39	14.90	32.950	5.96	0.57	4.	0.00	0.0	350.3	20	14.96	32.950	5.95	24.424	351.5	0.071
82	14.71	32.949	6.01	0.52	4.	0.00	0.0	346.5	30	14.93	32.950	5.96	24.430	350.9	0.106
81	14.12	32.950	6.08	0.52	4.	0.00	0.0	334.6	50	14.85	32.950	5.98	24.447	349.3	0.176
95	12.92	32.993	6.13	0.55	5.	0.00	0.0	308.3	75	14.40	32.947	6.06	24.542	340.3	0.263
109	11.31	33.051	5.73	0.75	8.	0.07	4.7	275.2	100	12.34	33.008	6.02	25.000	296.6	0.343
126	9.91	33.207	5.05	0.99	14.	0.01	10.8	240.5	125	9.97	33.196	5.09	25.572	242.3	0.411
146	9.87	33.528	4.13	1.24	19.	0.01	15.1	216.1	150	9.84	33.582	3.96	25.894	211.7	0.468
169	9.64	33.780	3.31	1.60	25.	0.01	21.5	193.8	200	9.27	33.933	2.78	26.262	176.7	0.567
192	9.38	33.894	2.91	1.86	30.	0.01	22.6	181.4	250	8.47	34.052	2.39	26.481	155.9	0.652
215	9.03	33.995	2.57	2.00	33.	0.00	25.9	168.5	300	7.97	34.101	2.00	26.593	145.2	0.730
243	8.55	34.044	2.42	2.11	37.	0.00	27.6	157.7	400	7.11	34.167	1.20	26.769	128.6	0.873
276	8.21	34.076	2.23	2.22	41.	0.03	28.0	150.4	500	6.32	34.220	0.69	26.918	114.5	1.001
322	7.77	34.122	1.77	2.39	48.	0.00	31.3	140.8							
385	7.25	34.159	1.31	2.61	56.	0.00	33.5	131.0							
456	6.62	34.196	0.86	2.77	66.	0.04	36.7	120.0							
531	6.14	34.236	0.63	2.96	74.	0.00	38.9	111.1							

	LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES					
	34 19.0N	120 48.0W	05/22/78	1130 GMT		760M	330	24KT							
E	T	S	O2	P04	SI03	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD
1	13.16	33.628	5.97	0.82	13.	0.04	5.9	266.2	0	13.16	33.628	5.97	25.320	266.2	0.000
10	13.09	33.648	5.96	0.81	13.	0.13	6.0	263.4	10	13.09	33.648	5.96	25.349	263.4	0.026
43	10.46	33.792	3.36	1.51	22.	0.38	19.6	206.2	20	12.40	33.678	5.29	25.508	248.3	0.052
71	9.62	33.932	2.56	1.79	30.	0.09	23.7	182.3	30	11.61	33.719	4.52	25.688	231.3	0.076
89	9.38	33.997	2.33	1.97	33.	0.12	25.2	173.7	50	10.16	33.830	3.07	26.032	198.5	0.119
103	9.18	34.045	2.14	2.11	35.	0.04	26.7	167.1	75	9.56	33.948	2.50	26.225	180.2	0.167
116	9.00	34.078	2.12	2.14	37.	0.08	27.5	161.9	100	9.22	34.035	2.17	26.348	168.5	0.211
135	8.94	34.097	1.98	2.11	38.	0.03	26.7	159.6	125	8.96	34.089	2.06	26.431	160.6	0.253
153	8.77	34.128	1.86	2.12	40.	0.09	26.7	154.7	150	8.80	34.123	1.88	26.484	155.6	0.293
181	8.56	34.154	1.71	2.27	43.	0.04	29.5	149.7	200	8.40	34.173	1.61	26.586	145.9	0.370
205	8.35	34.178	1.58	2.32	45.	0.08	28.8	144.9	250	7.99	34.205	1.31	26.672	137.8	0.443
229	8.11	34.196	1.42	2.41	48.	0.04	31.1	140.1	300	7.75	34.219	1.17	26.719	133.4	0.513
261	7.95	34.208	1.27	2.49	50.	0.02	32.2	136.9	400	7.14	34.230	0.93	26.814	124.3	0.647
299	7.76	34.219	1.17	2.53	53.	0.02	32.4	133.5	500	6.06	34.283	0.48	27.000	106.7	0.769
345	7.47	34.230	1.02	2.62	57.	0.01	34.1	128.7							
410	7.07	34.230	0.91	2.63	62.	0.00	35.0	123.3							
490	6.15	34.277	0.51	2.82	76.	0.02	35.9	108.1							
570	5.64	34.318	0.37	2.92	86.	0.01	40.5	99.0							

	LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES					
	34 09.0N	121 09.0W	05/22/78	1503 GMT		2220M	330	22KT	2	330 6 5					
E	T	S	O2	P04	SI03	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD
1	13.26	33.626	5.97	0.81	12.		6.3	268.3	0	13.26	33.626	5.97	25.298	268.3	0.000
11	13.23	33.626	5.93	0.82	13.		6.7	267.7	10	13.23	33.626	5.94	25.304	267.7	0.027
30	12.55	33.607	5.73	1.04	13.		9.6	256.3	20	12.96	33.618	5.82	25.351	263.3	0.053
39	12.37	33.603	5.75	1.08	13.		10.1	253.3	30	12.55	33.607	5.73	25.424	256.3	0.079
53	11.24	33.651	4.53	1.32	17.		14.5	229.7	50	11.49	33.638	4.82	25.647	235.1	0.129
69	10.89	33.692	4.10	1.42	19.		16.4	220.7	75	10.70	33.710	3.89	25.846	216.2	0.186
91	10.15	33.779	3.31	1.62	24.		20.5	202.1	100	9.85	33.844	2.97	26.096	192.5	0.237
110	9.54	33.914	2.67	1.82	29.		23.9	182.4	125	9.15	33.970	2.59	26.309	172.2	0.283
130	9.04	33.981	2.56	1.88	33.		24.8	169.7	150	8.76	34.011	2.47	26.402	163.4	0.326
149	8.78	34.010	2.47	1.99	34.		26.5	163.7	200	8.19	34.062	2.22	26.531	151.2	0.406
177	8.38	34.035	2.39	2.01	38.		27.1	155.9	250	7.82	34.108	1.86	26.621	142.6	0.481
208	8.14	34.071	2.16	2.13	41.		29.2	149.8	300	7.29	34.155	1.34	26.734	131.9	0.552
236	7.99	34.093	2.02	2.18	44.		29.9	146.0	400	6.64	34.229	0.76	26.882	117.8	0.682
283	7.41	34.144	1.45	2.36	53.		32.5	134.3	500	6.17	34.283	0.48	26.986	108.0	0.802
334	7.11	34.173	1.18	2.49	57.		34.1	128.1							
413	6.55	34.240	0.69	2.66	68.		36.8	115.9							
494	6.20	34.280	0.49	2.68	75.		37.0	108.5							
574	5.74	34.312	0.35	2.80	83.		39.3	100.6							

RV DAVID STARR JORDAN

CALCOFI CRUISE 7805

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Z	LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
	T	S	O2	P04	SI03	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD
2	14.40	32.943	6.15	0.42	3.	0.00	0.1	340.7	0	14.40	32.943	6.15	24.538	340.7	0.000
11	14.37	32.942	6.14	0.40	3.	0.00	0.0	340.2	10	14.37	32.942	6.14	24.543	340.2	0.034
31	13.39	33.014	6.30	0.44	3.	0.05	1.2	315.7	20	14.14	32.987	6.24	24.626	332.3	0.068
40	12.45	32.943	6.13	0.57	6.	0.07	3.2	303.3	30	13.48	33.013	6.30	24.781	317.5	0.100
54	11.15	33.087	5.47	0.77	9.	0.23	7.1	269.8	50	11.45	33.021	5.70	25.176	279.9	0.160
68	10.97	33.409	4.41	1.14	15.	0.15	13.6	243.0	75	10.79	33.489	4.15	25.657	234.1	0.225
92	10.33	33.604	3.79	1.38	19.	0.03	17.8	217.9	100	10.17	33.676	3.57	25.912	210.0	0.281
110	9.98	33.756	3.32	1.59	23.	0.03	20.5	201.0	125	9.69	33.828	3.09	26.110	191.2	0.331
129	9.62	33.841	3.04	1.79	27.	0.01	22.7	189.0	150	9.29	33.903	2.81	26.234	179.3	0.378
148	9.34	33.897	2.82	1.94	29.	0.02	24.2	180.5	200	8.41	34.043	2.43	26.482	155.8	0.464
175	8.71	33.977	2.73	2.07	34.	0.03	25.9	165.1	250	7.84	34.081	2.03	26.597	144.9	0.541
207	8.35	34.056	2.34	2.11	39.	0.03	27.8	153.9	300	7.49	34.144	1.51	26.698	135.3	0.613
235	8.00	34.068	2.16	2.21	42.	0.01	28.9	148.1	400	6.71	34.218	0.82	26.865	119.5	0.746
281	7.58	34.115	1.72	2.35	49.	0.00	31.5	138.7	500	5.71	34.230	0.47	27.003	106.4	0.865
331	7.35	34.188	1.19	2.52	56.	0.00	33.4	130.2							
415	6.54	34.219	0.77	2.71	67.	0.00	36.7	117.3							
494	5.75	34.226	0.49	2.82	79.	0.00	39.0	107.2							
575	5.35	34.306	0.30	2.91	89.	0.01	40.4	96.6							

RV DAVID STARR JORDAN

CALCOFI CRUISE 7805

80080

Z	LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
	T	S	O2	P04	SI03	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD
3	14.23	32.902	6.11	0.47	3.	0.00	0.1	340.3	0	14.23	32.902	6.11	24.542	340.3	0.000
12	14.23	32.899	6.09	0.47	3.	0.00	0.2	340.5	10	14.23	32.899	6.09	24.540	340.5	0.034
30	14.19	32.908	6.13	0.47	3.	0.01	0.3	339.1	20	14.21	32.904	6.11	24.546	339.9	0.068
39	13.55	32.933	6.21	0.45	3.	0.01	0.5	324.7	30	14.19	32.908	6.13	24.555	339.1	0.102
49	13.12	32.948	6.14	0.49	3.	0.04	1.2	315.4	50	13.06	32.954	6.12	24.820	313.8	0.168
62	12.14	33.034	5.81	0.59	6.	0.10	3.1	291.0	75	10.83	33.104	5.40	25.353	263.1	0.240
76	10.73	33.109	5.37	0.86	10.	0.07	8.6	261.1	100	9.74	33.287	4.85	25.680	232.0	0.302
94	9.83	33.202	5.11	1.04	13.	0.03	11.9	239.6	125	9.35	33.567	4.09	25.961	205.2	0.358
117	9.60	33.524	4.14	1.37	19.	0.08	17.5	212.2	150	8.99	33.753	3.58	26.165	185.9	0.407
136	9.03	33.613	4.05	1.52	22.	0.00	20.4	196.8	200	8.43	33.979	2.79	26.430	160.8	0.495
163	8.96	33.867	3.10	1.88	29.	0.03	24.5	177.0	250	7.68	34.036	2.43	26.586	146.0	0.574
191	8.57	33.960	2.83	1.93	33.	0.00	26.6	164.3	300	7.10	34.079	1.75	26.702	135.0	0.646
219	8.12	34.007	2.72	2.04	37.	0.00	28.1	154.3	400	6.38	34.147	0.97	26.853	120.6	0.779
256	7.60	34.040	2.36	2.15	43.	0.00	30.3	144.6	500	5.65	34.168	0.56	26.961	110.3	0.901
312	6.98	34.088	1.58	2.41	54.	0.00	34.4	132.7							
382	6.49	34.133	1.06	2.61	63.	0.00	37.2	123.1							
453	6.02	34.176	0.74	2.74	72.	0.00	39.3	114.1							
530	5.38	34.147	0.45	2.81	79.	0.00	40.1	108.8							

RV DAVID STARR JORDAN

CALCOFI CRUISE 7805

80090

Z	LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
	T	S	O2	P04	SI03	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD
2	14.79	32.906	6.00	0.54	3.	0.00	0.0	351.3	0	14.79	32.906	6.00	24.427	351.3	0.000
10	14.78	32.905	6.00	0.51	3.	0.00	0.0	351.1	10	14.78	32.905	6.00	24.428	351.1	0.035
33	14.81	32.904	5.99	0.50	3.	0.00	0.0	351.8	20	14.79	32.905	6.00	24.426	351.3	0.070
42	14.57	32.907	6.05	0.46	3.	0.00	0.1	346.7	30	14.81	32.904	5.99	24.421	351.8	0.106
55	14.36	32.908	6.05	0.46	4.	0.00	0.1	342.4	50	14.83	32.908	6.05	24.420	351.9	0.176
71	14.11	32.896	6.02	0.44	4.	0.00	0.0	338.4	75	13.83	32.921	6.00	24.638	331.1	0.262
93	12.30	33.051	5.84	0.59	6.	0.08	2.6	292.7	100	11.80	33.063	5.73	25.145	282.9	0.339
111	11.08	33.087	5.49	0.72	8.	0.08	5.2	268.6	125	10.24	33.205	5.04	25.533	246.0	0.406
130	9.98	33.254	4.87	0.96	14.	0.07	10.5	238.1	150	9.34	33.414	4.47	25.845	216.3	0.464
159	9.18	33.479	4.33	1.39	20.	0.02	17.8	209.0	200	8.90	33.772	3.50	26.195	183.1	0.566
187	9.00	33.673	3.78	1.68	26.	0.04	20.7	191.9	250	8.22	33.994	2.88	26.472	156.8	0.653
224	8.65	33.925	3.07	1.89	31.	0.01	25.2	168.0	300	7.53	34.043	2.47	26.613	143.4	0.730
252	8.19	33.996	2.87	2.04	35.	0.00	27.2	156.1	400	6.45	34.112	1.25	26.815	124.2	0.869
299	7.54	34.042	2.48	2.15	43.	0.01	29.3	143.6	500	5.69	34.171	0.72	26.958	110.6	0.993
360	6.86	34.091	1.60	2.43	55.	0.00	34.3	130.9	600	5.19	34.247	0.44	27.079	99.2	1.104
452	6.00	34.138	0.94	2.66	69.	0.00	38.0	116.7							
535	5.51	34.197	0.60	2.82	80.	0.04	40.5	106.6							
608	5.15	34.253	0.43	2.95	88.	0.00	42.0	98.3							

RV DAVID STARR JORDAN

CALCOFI CRUISE 7805

83042

LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
34 10.0N		119 29.5W		05/25/78		1035 GMT			181M	260	12KT				
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD
2	13.59	33.628	5.86	1.02	11.	0.07	4.3	274.5	0	13.59	33.628	5.86	25.233	274.5	0.000
25	13.43	33.659	5.67	1.01	12.	0.07	4.2	269.1	10	13.53	33.639	5.79	25.253	272.6	0.027
48	10.08	33.791	3.36	1.45	22.	0.15	19.8	200.0	20	13.46	33.653	5.71	25.277	270.3	0.055
67	9.87	33.836	3.20	1.61	24.	0.09	21.6	193.3	30	12.69	33.676	5.16	25.449	254.0	0.081
81	9.69	33.909	2.95	1.68	27.	0.59	22.6	185.1	50	10.06	33.796	3.34	26.024	199.3	0.126
95	9.56	34.048	2.35	1.85	31.	0.09	25.7	172.8	75	9.77	33.872	3.09	26.132	189.0	0.175
109	9.46	34.082	2.23	1.90	33.	0.06	26.1	168.7	100	9.52	34.067	2.31	26.324	170.8	0.221
118	9.40	34.095	2.19	1.95	34.	0.09	26.4	166.8	125	9.40	34.096	2.18	26.367	166.7	0.263
137	9.40	34.098	2.17	1.93	34.	0.08	26.8	166.6	150	9.40	34.100	2.14	26.370	166.4	0.306
146	9.40	34.099	2.15	2.03	34.	0.13	26.9	166.5							

RV DAVID STARR JORDAN

CALCOFI CRUISE 7805

83060

LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
33 34.0N		120 45.0W		05/24/78		0626 GMT			1850M	320	32KT				
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD
2	13.52	33.334	6.06	0.96	6.		3.5		0	13.52	33.334	6.06	25.021	294.7	0.000
11	13.52	33.334	6.06	0.94	6.		3.5	294.7	10	13.52	33.335	6.06	25.021	294.7	0.029
30	13.51	33.345	6.07	0.94	6.		3.6	293.7	20	13.52	33.340	6.06	25.026	294.2	0.059
39	13.39	33.346	6.05	0.93	6.		3.8	291.3	30	13.51	33.345	6.07	25.031	293.7	0.088
53	12.97	33.327	5.92	0.92	5.		4.5	284.7	50	13.06	33.332	5.95	25.111	286.1	0.147
66	10.13	33.315	4.76	1.27	15.		13.3	236.0	75	9.79	33.481	4.44	25.822	218.4	0.210
89	9.27	33.584	4.15	1.53	22.		19.0	202.6	100	9.12	33.734	3.67	26.129	189.3	0.261
108	9.06	33.829	3.34	1.82	28.		23.2	181.3	125	8.83	33.929	2.97	26.328	170.4	0.307
126	8.82	33.932	2.96	1.95	31.		24.7	170.0	150	8.63	33.964	2.84	26.386	164.9	0.349
145	8.71	33.952	2.89	1.98	33.		25.6	166.9	200	7.95	34.046	2.38	26.554	149.0	0.479
171	8.26	34.014	2.61	2.08	38.		27.0	155.8	250	7.25	34.073	1.89	26.675	137.5	0.503
204	7.91	34.048	2.35	2.22	42.		29.3	148.3	300	7.00	34.149	1.27	26.769	128.5	0.572
230	7.54	34.057	2.17	2.25	47.		30.5	142.5	400	6.50	34.254	0.68	26.921	114.2	0.698
275	6.99	34.102	1.52	2.42	56.		33.7	131.8	500	6.06	34.297	0.43	27.011	105.6	0.814
325	7.02	34.187	1.08	2.58	61.		34.8	125.9							
400	6.50	34.254	0.68	2.71	71.		37.0	114.2							
475	6.16	34.288	0.45	2.79	77.		37.8	107.5							
549	5.88	34.309	0.40	2.81	83.		38.7	102.5							

RV DAVID STARR JORDAN

CALCOFI CRUISE 7805

83070

LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
33 14.5N		121 26.0W		05/24/78		0114 GMT			3740M	320	34KT	1	320 12 6		
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD
1	14.54	32.981	6.05	0.60	5.	0.00	0.0	340.7	0	14.54	32.981	6.05	24.537	340.7	0.000
11	14.54	32.980	6.04	0.59	4.	0.00	0.0	340.8	10	14.54	32.980	6.04	24.537	340.8	0.034
30	14.56	32.981	6.05	0.59	4.	0.00	0.0	341.1	20	14.55	32.980	6.04	24.535	341.0	0.068
39	14.55	32.981	6.05	0.54	4.	0.01	0.0	340.9	30	14.56	32.981	6.05	24.533	341.1	0.102
55	14.55	32.984	6.07	0.53	4.	0.01	0.0	340.7	50	14.55	32.983	6.06	24.537	340.8	0.171
68	13.00	33.050	5.89	0.66	6.	0.19	1.7	305.7	75	12.04	33.162	5.42	25.176	279.9	0.249
91	10.28	33.441	4.31	1.25	17.	0.07	16.1	229.1	100	10.10	33.523	4.13	25.804	220.1	0.312
110	9.89	33.542	4.06	1.48	20.	0.05	18.5	215.4	125	9.50	33.655	3.85	26.006	201.0	0.365
129	9.39	33.688	3.79	1.57	24.	0.01	21.0	196.8	150	8.80	33.864	3.41	26.281	174.9	0.413
147	8.86	33.846	3.45	1.81	29.	0.00	24.0	177.0	200	8.26	33.988	3.07	26.462	157.7	0.497
175	8.49	33.959	3.15	2.02	33.	0.02	25.4	163.2	250	7.76	34.063	2.19	26.595	145.1	0.575
208	8.19	33.992	3.02	2.05	35.	0.01	27.0	156.4	300	7.26	34.101	1.70	26.697	135.4	0.647
235	7.91	34.048	2.38	2.21	41.	0.02	29.7	148.3	400	6.55	34.211	0.87	26.890	118.0	0.779
281	7.46	34.084	1.92	2.35	48.	0.01	32.3	139.4	500	5.67	34.243	0.50	27.018	105.0	0.897
332	6.94	34.133	1.34	2.56	57.	0.01	35.4	128.9							
411	6.49	34.221	0.82	2.75	66.	0.01	37.9	116.5							
491	5.73	34.238	0.52	2.90	79.	0.00	40.7	106.0							
573	5.35	34.292	0.37	3.01	88.	0.00	41.9	97.6							

RV DAVID STARR JORDAN

CALCOFI CRUISE 7805

83080

LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
32 54.0N		122 08.0W		05/23/78		1901 GMT			4120M	330	24KT	1	330 10 6		
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD
2	14.32	33.050	6.07	0.54	2.	0.01	0.1	331.2	0	14.32	33.050	6.07	24.637	331.2	0.000
11	14.31	33.045	6.08	0.52	2.	0.00	0.1	331.4	10	14.31	33.046	6.08	24.635	331.4	0.033
30	13.83	33.037	6.12	0.52	2.	0.00	0.1	322.5	20	14.08	33.042	6.10	24.679	327.2	0.066
39	12.60	33.043	5.94	0.61	4.	0.09	1.8	298.7	30	13.83	33.037	6.12	24.729	322.5	0.099
53	11.91	33.239	5.70	0.77	5.	0.17	5.3	271.8	50	12.01	33.199	5.76	25.210	276.6	0.159
68	10.70	33.195	5.07	1.02	12.	0.16	10.4	254.2	75	10.49	33.280	4.73	25.547	244.6	0.224
89	10.21	33.457	4.24	1.29	17.	0.04	16.8	226.8	100	9.59	33.444	4.33	25.827	218.0	0.283
109	9.14	33.427	4.44	1.41	20.	0.02	17.7	212.3	125	9.11	33.564	4.13	25.998	201.7	0.336
128	9.11	33.589	4.04	1.54	23.	0.02	20.1	199.8	150	9.09	33.788	3.39	26.176	184.9	0.385
146	9.16	33.758	3.41	1.66	25.	0.00	22.3	188.0	200	8.07	33.985	3.00	26.488	155.2	0.471
173	8.57	33.915	3.30	1.88	31.	0.01	24.7	167.6	250	7.38	34.036	2.40	26.628	141.9	0.547
207	7.96	33.994	2.91	1.94	37.	0.00	26.9	153.0	300	6.62	34.045	1.80	26.741	131.2	0.618
235	7.63	34.029	2.62	2.05	42.	0.00	29.0	145.8	400	5.79	34.104	1.10	26.894	116.7	0.746
281	6.86	34.042	1.97	2.24	52.	0.01	32.6	134.6	500	5.39	34.215	0.55	27.029	103.9	0.862
333	6.27	34.054	1.57	2.37	61.	0.00	35.1	126.3							
411	5.73	34.115	1.03	2.55	72.	0.01	38.4	115.2							
492	5.40	34.203	0.59	2.66	83.	0.00	40.6	104.9							
572	5.35	34.317	0.30	2.76	89.	0.00	41.2	95.7							

RV DAVID STARR JORDAN

CALCOFI CRUISE 7805

83090

Z	LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER TIME		BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		DD
	T	S	O2	P04	SI03	NO2	NO3	DT					Z	T	
0	14.63	32.909	6.04	0.34	3.	0.01	0.0	347.8	0	14.63	32.909	6.04	24.463	347.8	0.000
10	14.62	32.907	6.04	0.33	3.	0.00	0.0	347.7	10	14.62	32.907	6.04	24.464	347.7	0.035
33	14.63	32.907	6.02	0.34	3.	0.00	0.0	347.9	20	14.63	32.907	6.03	24.462	347.9	0.070
41	14.62	32.907	6.03	0.35	3.	0.00	0.0	347.7	30	14.63	32.907	6.02	24.462	347.9	0.104
54	14.24	32.898	6.07	0.36	2.	0.00	0.0	340.8	50	14.38	32.901	6.06	24.510	343.4	0.174
68	13.90	32.910	6.07	0.41	2.	0.00	0.0	335.2	75	13.42	32.955	6.02	24.749	320.6	0.257
91	12.29	33.093	5.85	0.62	5.	0.20	3.6	289.4	100	12.11	33.171	5.77	25.170	280.5	0.333
109	11.83	33.214	5.67	0.74	6.	0.18	5.8	272.2	125	10.08	33.135	5.32	25.505	248.6	0.400
127	9.85	33.127	5.27	0.94	12.	0.04	11.0	245.5	150	8.87	33.347	4.76	25.866	214.3	0.458
155	8.82	33.417	4.63	1.30	20.	0.02	17.3	208.2	200	8.77	33.911	3.09	26.324	170.8	0.556
183	8.87	33.774	3.59	1.81	27.	0.05	22.6	182.5	250	7.77	34.002	3.19	26.566	149.8	0.638
219	8.51	33.995	2.81	1.98	33.	0.04	26.1	160.8	300	7.14	34.044	2.24	26.669	138.0	0.712
247	7.82	34.000	3.22	2.01	37.	0.02	26.9	150.6	400	6.15	34.136	0.96	26.873	118.7	0.846
294	7.20	34.036	2.36	2.28	46.	0.00	31.3	139.5	500	5.37	34.187	0.62	27.010	105.7	0.964
354	6.61	34.112	1.29	2.59	60.	0.02	35.7	126.2							
448	5.72	34.152	0.82	2.85	69.	0.00	39.8	112.4							
533	5.20	34.213	0.52	3.00	87.	0.01	41.1	101.9							

RV DAVID STARR JORDAN

CALCOFI CRUISE 7805

87040

Z	LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER TIME		BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		DD
	T	S	O2	P04	SI03	NO2	NO3	DT					Z	T	
1	17.57	33.415	5.90	0.68	3.	0.00	0.2	374.3	0	17.57	33.415	5.90	24.185	374.3	0.000
11	16.05	33.411	6.22	0.65	4.	0.00	0.1	340.8	10	16.20	33.411	6.20	24.502	344.0	0.036
30	13.35	33.430	5.84	0.81	7.	0.11	3.2	284.4	20	14.72	33.412	6.04	24.829	312.9	0.069
40	12.14	33.476	4.92	1.05	11.	0.28	8.7	258.5	30	13.35	33.430	5.84	25.129	284.4	0.099
49	11.87	33.498	4.67	1.12	12.	0.29	10.3	252.0	50	11.82	33.503	4.61	25.482	250.8	0.152
64	11.09	33.597	3.72	1.40	16.	0.39	15.3	231.1	75	10.63	33.700	3.49	25.850	215.8	0.211
78	10.52	33.729	3.46	1.51	20.	0.19	18.6	211.8	100	9.90	33.902	3.02	26.133	188.9	0.262
97	9.96	33.885	3.07	1.69	25.	0.03	21.9	191.2	125	9.50	34.017	2.59	26.289	174.2	0.308
121	9.57	33.998	2.66	1.84	30.	0.01	24.2	176.6	150	9.20	34.112	2.23	26.412	162.5	0.351
139	9.30	34.078	2.38	1.95	34.	0.01	26.1	166.5	200	8.73	34.154	1.94	26.519	152.3	0.431
167	9.08	34.145	2.06	2.11	37.	0.02	27.3	158.2	250	8.11	34.215	1.39	26.662	138.7	0.506
195	8.79	34.150	1.98	2.21	39.	0.00	28.4	153.4	300	7.55	34.247	1.03	26.769	128.5	0.575
223	8.45	34.178	1.71	2.29	44.	0.00	30.0	146.3	400	6.72	34.285	0.61	26.916	114.7	0.702
260	7.99	34.228	1.28	2.45	50.	0.00	32.1	136.0	500	6.17	34.322	0.44	27.016	105.1	0.819
315	7.40	34.249	0.96	2.58	58.	0.02	34.5	126.3							
384	6.81	34.279	0.65	2.75	67.	0.00	36.8	116.3							
455	6.44	34.304	0.52	2.78	74.		37.4	109.7							
532	5.97	34.335	0.39	2.84	85.		38.1	101.6							

RV DAVID STARR JORDAN

CALCOFI CRUISE 7805

87045

Z	LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER TIME		BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		DD
	T	S	O2	P04	SI03	NO2	NO3	DT					Z	T	
1	15.29	33.447	5.83	0.89	6.	0.04	2.1	322.0	0	15.29	33.447	5.83	24.734	322.0	0.000
11	14.35	33.460	5.65	0.98	8.	0.05	4.0	301.8	10	14.49	33.456	5.67	24.913	305.0	0.031
29	10.02	33.757	3.49	1.54	22.	0.14	20.0	201.6	20	12.05	33.583	4.56	25.500	249.1	0.059
38	9.93	33.788	3.35	1.71	23.	0.06	21.0	197.9	30	10.01	33.761	3.47	26.004	201.2	0.082
48	9.72	33.842	3.16	1.87	25.	0.02	22.2	190.5	50	9.67	33.853	3.12	26.132	189.0	0.121
62	9.44	33.908	2.91	1.96	28.	0.01	23.8	181.3	75	9.38	33.950	2.76	26.256	177.3	0.167
77	9.38	33.955	2.74	1.99	30.	0.00	24.7	176.8	100	9.21	34.023	2.48	26.341	169.2	0.211
94	9.25	34.004	2.55	2.11	31.	0.00	25.6	171.2	125	8.93	34.097	2.14	26.442	159.6	0.252
118	9.04	34.077	2.24	2.18	35.	0.00	26.9	162.6	150	8.61	34.142	1.86	26.529	151.4	0.292
137	8.75	34.125	1.98	2.28	39.	0.00	28.3	154.7	200	8.23	34.180	1.58	26.617	143.0	0.367
166	8.48	34.155	1.75	2.31	43.	0.01	29.3	148.5	250	7.77	34.228	1.17	26.723	133.0	0.438
193	8.29	34.173	1.63	2.36	45.	0.00	30.5	144.4	300	7.35	34.250	0.92	26.800	125.6	0.505
220	8.04	34.201	1.42	2.45	49.	0.00	31.6	138.7	400	6.63	34.295	0.58	26.935	112.8	0.629
257	7.71	34.233	1.12	2.52	54.	0.00	33.1	131.7	500	5.93	34.335	0.37	27.059	101.1	0.743
312	7.26	34.253	0.88	2.59	61.	0.00	34.8	124.1							
381	6.78	34.286	0.64	2.69	69.	0.00	36.7	115.4							
452	6.23	34.317	0.44	2.72	79.	0.12	37.6	106.1							
527	5.78	34.344	0.35	2.81	88.	0.00	38.7	98.7							

RV DAVID STARR JORDAN

CALCOFI CRUISE 7805

87050

Z	LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER TIME		BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		DD
	T	S	O2	P04	SI03	NO2	NO3	DT					Z	T	
1	13.37	33.525	5.61	0.31	11.		5.9	277.8	0	13.37	33.525	5.61	25.198	277.8	0.000
10	13.36	33.525	5.58	0.48	11.		6.4	277.6	10	13.36	33.525	5.58	25.200	277.6	0.028
20	13.27	33.527	5.54	0.52	12.		7.5	275.8	20	13.27	33.527	5.54	25.220	275.8	0.055
29	12.70	33.544	5.27	0.64	13.		9.0	263.8	30	12.60	33.550	5.21	25.370	261.4	0.082
39	11.65	33.615	4.60	0.85	16.		13.4	239.5	50	10.83	33.685	4.06	25.802	220.4	0.131
57	10.50	33.718	3.83	1.20	23.		18.7	212.3							

RV DAVID STARR JORDAN

CALCOFI CRUISE 7805

87060

LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
33 00.5N		120 21.0W		05/29/78		0130 GMT			630M	320	25KT	0	330 6 5		
Z	T	S	O2	P04	SI03	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD
1	14.51	33.217	6.04	0.39	4.	0.03	1.2	322.8	0	14.51	33.217	6.04	24.725	322.8	0.000
10	13.39	33.296	6.01	0.60	7.	0.09	3.7	295.0	10	13.39	33.296	6.01	25.018	295.0	0.031
29	12.63	33.523	5.95	0.83	11.	0.15	7.8	264.0	20	12.99	33.482	5.99	25.240	273.8	0.059
38	12.60	33.521	5.88	0.88	12.	0.14	8.0	263.6	30	12.63	33.523	5.94	25.344	264.0	0.086
52	12.54	33.536	5.75	0.94	12.	0.13	8.6	261.4	50	12.55	33.533	5.77	25.367	261.8	0.139
86	12.50	33.566	5.66	0.99	13.	0.14	9.3	258.4	75	11.64	33.509	5.25	25.520	247.2	0.203
89	10.16	33.452	4.51	1.18	17.	0.15	15.5	226.4	100	9.78	33.512	4.22	25.850	215.8	0.261
108	9.64	33.580	4.05	1.31	21.	0.03	18.9	208.7	125	9.25	33.752	3.57	26.123	189.9	0.313
126	9.23	33.761	3.55	1.44	25.	0.00	22.2	188.9	150	8.95	33.851	3.29	26.247	178.1	0.359
145	9.01	33.834	3.34	1.59	28.	0.00	23.7	180.1	200	8.38	33.999	2.70	26.452	158.6	0.445
172	8.71	33.918	3.07	1.81	32.	0.01	25.2	169.4	250	7.98	34.064	2.28	26.563	148.1	0.524
205	8.33	34.011	2.64	1.98	37.	0.01	27.6	157.0	300	7.47	34.131	1.66	26.690	136.0	0.597
233	8.11	34.045	2.42	2.12	40.	0.01	28.9	151.3	400	6.49	34.246	0.74	26.916	114.6	0.728
279	7.73	34.097	1.98	2.32	46.	0.01	31.0	142.1	500	6.03	34.286	0.52	27.006	106.1	0.844
330	7.09	34.180	1.22	2.52	58.	0.02	34.5	127.3							
409	6.43	34.251	0.71	2.78	70.	0.00	37.6	113.5							
488	6.10	34.279	0.54	2.91	76.	0.08	38.9	107.4							
567	5.55	34.334	0.39	2.99	86.	0.03	40.6	96.8							

RV DAVID STARR JORDAN

CALCOFI CRUISE 7805

87070

LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
32 39.5N		121 02.0W		05/29/78		0744 GMT			3925M	330	25KT				
Z	T	S	O2	P04	SI03	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD
3	15.30	33.116	5.92	0.31	4.	0.00	0.1	346.4	0	15.30	33.116	5.92	24.477	346.4	0.000
12	15.30	33.116	5.91	0.36	3.	0.02	0.0	346.4	10	15.30	33.116	5.91	24.477	346.4	0.035
31	15.31	33.115	5.92	0.31	3.	0.01	0.0	346.7	20	15.30	33.116	5.91	24.477	346.4	0.069
40	15.26	33.113	5.92	0.29	3.	0.01	0.0	345.8	30	15.31	33.115	5.92	24.474	346.7	0.104
54	14.46	33.117	5.99	0.30	3.	0.02	0.2	329.1	50	14.71	33.115	5.97	24.603	334.4	0.172
68	14.08	33.128	5.97	0.34	3.	0.04	0.7	320.8	75	14.00	33.144	5.95	24.776	318.0	0.254
91	13.66	33.178	5.90	0.40	5.	0.10	2.2	308.9	100	13.22	33.182	5.79	24.963	300.1	0.332
109	12.56	33.191	5.61	0.58	6.	0.18	4.9	287.1	125	10.60	33.273	4.98	25.524	246.8	0.401
127	10.36	33.291	4.89	0.94	13.	0.08	12.6	241.5	150	9.52	33.588	4.08	25.951	206.2	0.459
146	9.60	33.553	4.18	1.31	20.	0.05	18.1	210.0	200	8.90	33.882	3.18	26.281	174.0	0.555
175	9.22	33.739	3.62	1.72	26.	0.03	21.8	190.4	250	8.12	34.039	2.50	26.523	151.9	0.639
207	8.80	33.915	3.07	1.89	31.	0.01	24.9	171.0	300	7.37	34.101	1.77	26.681	136.9	0.714
235	8.37	34.002	2.76	2.02	37.	0.01	26.4	158.2	400	6.49	34.177	0.93	26.861	119.9	0.847
281	7.63	34.092	1.96	2.35	48.	0.00	31.3	141.1	500	5.89	34.268	0.47	27.010	105.7	0.966
333	6.99	34.107	1.52	2.56	58.	0.01	34.7	131.4							
411	6.43	34.190	0.84	2.84	69.	0.00	37.7	118.1							
492	5.93	34.262	0.49	3.06	80.	0.01	40.0	106.6							
573	5.60	34.314	0.35	3.14	88.	0.00	41.1	98.8							

RV DAVID STARR JORDAN

CALCOFI CRUISE 7805

87080

LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
32 20.0N		121 43.0W		05/29/78		1320 GMT			3925M	330	30KT	1	330 6 7		
Z	T	S	O2	P04	SI03	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD
1	15.19	33.007	5.92	0.28	4.	0.01	0.0	352.1	0	15.19	33.007	5.92	24.418	352.1	0.000
11	15.19	33.005	5.93	0.27	4.	0.00	0.1	352.3	10	15.19	33.005	5.93	24.416	352.3	0.035
29	15.21	33.005	5.93	0.27	4.	0.00	0.0	352.7	20	15.20	33.005	5.93	24.414	352.5	0.071
39	15.16	33.002	5.95	0.24	4.	0.00	0.0	351.8	30	15.21	33.005	5.93	24.412	352.7	0.106
53	14.41	32.983	6.10	0.25	4.	0.00	0.0	337.9	50	14.60	32.989	6.07	24.531	341.3	0.175
67	13.86	32.949	6.13	0.26	4.	0.00	0.0	329.5	75	13.37	32.996	6.03	24.789	316.8	0.258
90	12.24	33.105	5.70	0.54	8.	0.29	4.7	287.6	100	11.30	33.128	5.43	25.286	269.4	0.332
109	10.54	33.150	5.20	0.81	11.	0.16	9.8	254.9	125	9.90	33.232	4.94	25.611	238.5	0.396
127	9.85	33.246	4.91	0.99	14.	0.03	13.0	236.7	150	9.34	33.519	4.23	25.926	208.6	0.453
146	9.40	33.488	4.30	1.28	19.	0.03	17.6	211.7	200	8.74	33.882	3.34	26.305	172.6	0.549
174	9.09	33.669	3.89	1.65	24.	0.04	20.4	193.6	250	7.94	34.019	2.85	26.534	150.9	0.632
206	8.65	33.924	3.23	1.83	31.	0.01	24.9	168.1	300	7.41	34.078	1.97	26.657	139.2	0.707
234	8.15	33.994	3.09	1.94	35.	0.02	26.5	155.7	400	6.46	34.150	0.94	26.844	121.4	0.843
280	7.62	34.052	2.31	2.22	44.	0.02	30.2	144.0	500	5.94	34.248	0.51	26.988	107.8	0.963
333	7.08	34.114	1.48	2.47	55.	0.02	33.0	132.1							
430	6.38	34.155	0.89	2.73	67.	0.00	37.5	120.1							
490	6.00	34.241	0.54	2.91	76.	0.00	39.0	109.0							
570	5.43	34.266	0.38	3.03	88.	0.00	40.7	100.5							

Z	LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER TIME		BOTTOM	WIND	SPEED	WEATHER		DOMINANT WAVES	
	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD
0	15.58	33.022	5.89	0.31	3.	0.00	0.1	359.2	0	15.58	33.022	5.89	24.344	359.2	0.000
10	15.57	33.023	5.87	0.30	3.	0.00	0.0	358.9	10	15.57	33.023	5.87	24.347	358.9	0.036
28	15.54	33.019	5.87	0.30	3.	0.00	0.0	358.5	20	15.56	33.021	5.87	24.347	358.8	0.072
57	15.32	33.000	5.93	0.30	3.	0.00	0.0	355.3	30	15.52	33.018	5.87	24.354	358.2	0.108
66	14.73	32.933	6.03	0.30	3.	0.00	0.0	348.1	50	15.37	33.005	5.91	24.376	356.1	0.179
80	14.72	33.118	5.99	0.27	3.	0.00	0.0	334.3	75	14.72	33.045	6.01	24.547	339.8	0.267
94	13.54	33.072	6.10	0.33	4.	0.01	0.1	314.3	100	12.57	33.045	5.95	24.984	298.1	0.347
108	11.27	33.037	5.68	0.55	7.	0.18	4.7	275.5	125	9.91	33.156	5.26	25.550	244.4	0.416
131	9.68	33.219	5.14	0.92	14.	0.03	12.2	236.0	150	9.18	33.452	4.84	25.900	211.0	0.473
150	9.18	33.452	4.84	1.12	18.	0.02	15.0	211.0	200	8.43	33.866	3.70	26.341	169.2	0.570
178	8.76	33.741	4.09	1.64	26.	0.02	21.1	183.3	250	7.71	34.017	2.80	26.566	147.8	0.651
206	8.34	33.890	3.60	1.90	31.	0.02	24.2	166.1	300	7.12	34.042	2.35	26.670	138.0	0.725
234	7.92	33.996	3.05	2.00	38.	0.11	27.0	152.3	400	6.20	34.115	1.17	26.850	120.9	0.859
281	7.34	34.028	2.45	2.22	46.	0.04	30.3	141.9	500	5.91	34.267	0.42	27.006	106.1	0.978
330	6.79	34.063	2.20	2.47	56.	0.05	34.0	132.1							
411	6.13	34.125	1.00	2.76	69.	0.01	38.1	119.3							
491	5.95	34.257	0.43	3.01	79.	0.01	40.2	107.2							
571	5.50	34.303	0.35	3.16	88.	0.00	41.9	98.5							

Z	LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER TIME		BOTTOM	WIND	SPEED	WEATHER		DOMINANT WAVES	
	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD
0	18.60	33.515	5.85	0.33	2.		0.0	391.0	0	18.60	33.515	5.85	24.009	391.0	0.000
10	14.82	33.505	6.22	0.45	4.		0.0	308.1	10	14.82	33.505	6.22	24.880	308.1	0.035
29	10.85	33.721	3.47	1.01	18.		13.8	217.9	20	12.20	33.613	4.83	25.496	249.5	0.063
38	10.48	33.790	3.40	1.43	21.		19.2	206.6	30	10.78	33.731	3.46	25.848	216.0	0.086
48	10.33	33.832	3.18	1.51	22.		18.9	201.1	50	10.30	33.843	3.14	26.020	199.7	0.128
62	10.09	33.912	2.94	1.63	25.		21.1	191.3	75	9.91	33.971	2.77	26.186	183.9	0.176
77	9.88	33.979	2.75	1.72	27.		23.1	182.9	100	9.58	34.045	2.54	26.299	173.2	0.221
95	9.63	34.036	2.56	1.78	29.		22.7	174.8	125	9.33	34.089	2.40	26.373	166.2	0.264
120	9.38	34.077	2.46	1.88	32.		25.4	167.8	150	9.02	34.126	2.19	26.451	158.7	0.306
138	9.19	34.117	2.25	1.91	34.		24.0	161.9	200	8.65	34.204	1.72	26.571	147.4	0.384
167	8.80	34.135	2.12	2.05	38.		27.5	154.7	250	8.23	34.243	1.33	26.667	138.3	0.457
194	8.60	34.177	1.85	2.13	41.		28.1	148.6	300	7.78	34.245	1.12	26.735	131.8	0.527
221	8.79	34.284	1.29	2.29	44.		28.9	143.5	400	6.93	34.281	0.69	26.884	117.7	0.658
259	8.01	34.221	1.34	2.32	49.		29.5	136.8	500	6.14	34.320	0.41	27.020	104.8	0.775
314	7.75	34.260	1.02	2.46	54.		32.0	130.3							
385	7.08	34.276	0.75	2.62	63.		35.0	120.0							
455	6.43	34.302	0.50	2.73	73.		37.8	109.7							
530	6.00	34.332	0.38	2.82	81.		39.5	102.2							

Z	LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER TIME		BOTTOM	WIND	SPEED	WEATHER		DOMINANT WAVES	
	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD
1	18.03	33.411	5.82	0.33	3.		0.1	385.2	0	18.03	33.411	5.82	24.071	385.2	0.000
10	16.59	33.397	5.97	0.33	3.		0.1	353.6	10	16.59	33.397	5.97	24.402	353.6	0.037
29	11.77	33.507	4.48	1.24	11.		11.4	249.6	20	13.00	33.440	5.31	25.207	277.0	0.069
38	11.18	33.581	3.93	1.62	14.		15.4	233.9	30	11.68	33.516	4.41	25.518	247.4	0.095
48	10.88	33.621	3.83	1.68	17.		16.6	225.8	50	10.82	33.644	3.77	25.773	223.1	0.142
61	10.50	33.773	3.39	1.89	21.		19.4	208.2	75	10.22	33.848	3.17	26.037	198.1	0.195
75	10.22	33.848	3.17	2.00	23.		20.9	198.1	100	9.89	33.940	2.89	26.164	186.0	0.243
94	9.94	33.913	2.98	2.12	25.		22.6	188.8	125	9.71	34.041	2.53	26.273	175.7	0.289
117	9.77	34.014	2.63	2.22	29.		24.0	178.6	150	9.48	34.127	2.18	26.379	165.6	0.333
136	9.62	34.075	2.40	2.31	31.		25.0	171.7	200	8.78	34.209	1.68	26.554	149.0	0.413
163	9.32	34.169	1.98	2.37	36.		26.6	160.1	250	8.35	34.242	1.34	26.648	140.0	0.487
191	8.89	34.201	1.76	2.54	39.		29.1	151.2	300	7.87	34.250	1.10	26.726	132.6	0.558
219	8.59	34.223	1.53	2.62	43.		29.6	145.0	400	6.88	34.275	0.68	26.886	117.5	0.689
256	8.30	34.245	1.31	2.71	47.		30.7	139.2	500	6.12	34.322	0.43	27.023	104.5	0.806
311	7.75	34.250	1.05	2.78	52.		32.4	131.0							
379	7.07	34.265	0.76	2.92	61.		35.2	120.7							
448	6.48	34.299	0.53	3.03	70.		36.3	110.6							
522	5.99	34.330	0.40	3.02	78.		38.2	102.3							

Z	LATITUDE			LONGITUDE			MO/DAY/YR	MESSENGER			TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
	T	S	02	P04	S103	N02	N03	DT	Z	T	S	02	SIGT	DT	DD			
1	15.89	33.445	5.87					334.9	0	15.89	33.445	5.87	24.599	334.9	0.000			
11	15.49	33.442	5.89	0.38	5.		0.5	326.6	10	15.52	33.443	5.89	24.679	327.2	0.033			
29	11.11	33.543	4.45	0.36	15.		12.8	235.5	20	15.32	33.442	5.25	24.723	323.0	0.066			
39	10.60	33.645	3.89	0.86	18.		16.9	219.3	30	11.06	33.553	4.39	25.660	233.9	0.094			
48	10.25	33.742	3.44	1.15	21.		18.9	206.4	50	10.21	33.753	3.40	25.964	205.0	0.138			
62	10.05	33.795	3.28	1.33	23.		20.4	199.3	75	9.80	33.872	3.07	26.127	189.6	0.187			
76	9.78	33.878	3.05	1.47	26.		22.3	188.8	100	9.46	33.986	2.73	26.270	175.9	0.233			
95	9.56	33.973	2.77	1.55	28.		23.1	178.3	125	9.12	34.067	2.38	26.389	164.6	0.277			
118	9.16	34.031	2.53	1.70	32.		25.6	167.8	150	9.02	34.162	1.97	26.480	156.0	0.317			
137	9.09	34.127	2.11	1.68	35.		25.7	159.7	200	8.61	34.225	1.55	26.594	145.2	0.394			
165	8.92	34.185	1.86	2.26	42.		28.0	152.8	250	7.94	34.242	1.13	26.709	134.3	0.466			
193	8.69	34.220	1.61	2.31	43.		28.3	146.7	300	7.36	34.255	0.86	26.804	125.3	0.533			
221	8.34	34.233	1.38	2.35	47.		29.1	140.7	400	6.59	34.295	0.53	26.941	112.2	0.657			
258	7.83	34.244	1.07	2.34	52.		30.2	132.6	500	6.10	34.318	0.38	27.023	104.5	0.772			
315	7.21	34.259	0.80	2.47	61.		33.6	123.0										
384	6.68	34.291	0.56	2.64	68.		36.0	113.7										
454	6.31	34.305	0.46	2.74	74.		37.5	108.0										
529	5.98	34.327	0.32	2.79	81.		38.6	102.4										

Z	LATITUDE			LONGITUDE			MO/DAY/YR	MESSENGER			TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
	T	S	02	P04	S103	N02	N03	DT	Z	T	S	02	SIGT	DT	DD			
1	13.49	33.517	5.73	0.71	10.		7.0	280.7	0	13.49	33.517	5.73	25.168	280.7	0.000			
12	13.44	33.517	5.87	0.64	10.		6.7	279.7	10	13.45	33.517	5.85	25.176	279.9	0.028			
31	13.43	33.516	5.80	0.80	10.		6.9	279.6	20	13.44	33.517	5.86	25.178	279.7	0.056			
40	13.35	33.516	5.82	0.84	11.		7.6	278.1	30	13.43	33.517	5.81	25.179	279.6	0.084			
54	12.82	33.449	5.78	0.85	9.		7.6	273.0	50	12.99	33.468	5.79	25.230	274.8	0.140			
67	12.43	33.462	5.39	0.92	11.		9.2	264.8	75	11.71	33.421	5.13	25.440	254.8	0.206			
92	10.09	33.419	4.51	1.18	16.		15.5	227.7	100	9.71	33.539	4.11	25.882	212.8	0.265			
110	9.42	33.694	3.68	1.47	23.		21.1	196.8	125	9.29	33.759	3.49	26.123	189.9	0.316			
128	9.27	33.766	3.47	1.61	26.		22.5	189.1	150	8.73	33.922	3.05	26.338	169.5	0.362			
147	8.78	33.908	3.09	1.81	31.		25.1	171.2	200	7.97	34.038	2.51	26.544	149.9	0.443			
175	8.40	33.994	2.79	1.98	36.		26.4	159.3	250	7.90	34.182	1.49	26.669	138.1	0.517			
207	7.89	34.052	2.40	2.14	42.		29.4	147.7	300	7.06	34.183	1.18	26.788	126.7	0.585			
235	8.10	34.172	1.56	2.35	47.		30.4	141.7	400	6.47	34.263	0.58	26.931	113.2	0.711			
281	7.29	34.170	1.34	2.49	55.		33.3	130.7	500	6.04	34.312	0.39	27.026	104.2	0.826			
331	6.79	34.210	0.92	2.75	64.		36.1	121.2										
410	6.44	34.269	0.55	2.93	71.		38.0	112.3										
491	6.08	34.308	0.40	2.97	78.		39.3	105.0										
573	5.77	34.339	0.33	3.12	85.		40.4	99.0										

Z	LATITUDE			LONGITUDE			MO/DAY/YR	MESSENGER			TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
	T	S	02	P04	S103	N02	N03	DT	Z	T	S	02	SIGT	DT	DD			
0	14.82	33.202	6.03	0.37	4.	0.00	0.3	330.2	0	14.82	33.202	6.03	24.648	330.2	0.000			
10	14.79	33.198	6.04	0.42	4.	0.02	0.5	329.9	10	14.79	33.198	6.04	24.651	329.9	0.033			
29	14.69	33.198	6.03	0.41	4.	0.02	0.5	327.9	20	14.76	33.197	6.03	24.657	329.3	0.066			
38	14.56	33.202	6.09	0.41	4.	0.05	0.5	324.9	30	14.68	33.199	6.04	24.676	327.6	0.099			
52	14.40	33.206	5.97	0.40	4.	0.05	0.9	321.4	50	14.42	33.206	6.00	24.736	321.8	0.164			
64	13.54	33.237	5.82	0.52	5.	0.10	2.9	302.2	75	12.57	33.226	5.56	25.125	284.7	0.240			
90	11.22	33.244	5.11	0.80	10.	0.19	9.7	259.4	100	10.41	33.327	4.82	25.598	239.8	0.306			
107	9.95	33.403	4.60	1.09	16.	0.04	15.2	226.6	125	9.49	33.626	3.98	25.985	203.0	0.362			
126	9.48	33.638	3.95	1.31	22.	0.03	19.4	201.9	150	8.94	33.856	3.30	26.254	177.5	0.410			
144	9.02	33.822	3.40	1.57	27.	0.02	23.1	181.2	200	8.43	33.996	2.84	26.443	159.5	0.496			
172	8.75	33.930	3.07	1.79	32.	0.01	25.0	169.1	250	7.85	34.049	2.43	26.571	147.3	0.575			
205	8.37	34.004	2.81	1.91	35.	0.00	27.2	158.1	300	7.30	34.100	1.78	26.690	136.1	0.648			
232	8.07	34.037	2.60	2.01	39.	0.00	28.5	151.3	400	6.51	34.210	0.81	26.884	117.6	0.780			
278	7.51	34.068	2.11	2.18	47.	0.00	31.1	141.3	500	5.99	34.289	0.44	27.014	105.3	0.898			
329	7.06	34.145	1.35	2.41	57.	0.00	34.2	129.5										
406	6.47	34.214	0.78	2.70	68.	0.00	37.8	116.8										
485	6.05	34.279	0.48	2.87	77.		39.5	106.8										
565	5.76	34.317	0.36	2.94	84.		40.5	100.5										

RV DAVID STARR JORDAN

CALCOFI CRUISE 7805

90070

LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER TIME			BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
32 04.5N		120 38.5W		05/30/78		1156 GMT			3740M	300	18KT				
Z	T	S	02	P04	SI03	N02	N03	DT	Z	T	S	02	SIGT	DT	DD
1	16.24	33.109	5.80	0.44	3.	0.00	0.1	367.0	0	16.24	33.109	5.80	24.262	367.0	0.000
10	16.23	33.109	5.80	0.50	3.	0.00	0.1	366.7	10	16.23	33.109	5.80	24.264	366.7	0.037
29	16.23	33.107	5.80	0.51	3.	0.00	0.1	366.9	20	16.23	33.108	5.80	24.264	366.8	0.073
38	16.23	33.105	5.81	0.52	3.	0.00	0.0	367.0	30	16.23	33.107	5.80	24.263	366.9	0.110
52	15.59	33.124	5.91	0.53	3.	0.00	0.0	351.9	50	15.72	33.121	5.99	24.388	354.9	0.183
66	14.49	33.127	6.04	0.55	3.	0.03	0.4	329.0	75	14.03	33.127	6.00	24.757	319.8	0.267
89	13.10	33.128	5.94	0.58	5.	0.03	1.4	301.8	100	11.57	33.154	5.52	25.258	272.1	0.342
108	10.54	33.200	5.19	0.79	11.	0.09	9.7	251.2	125	10.02	33.324	4.78	25.663	233.6	0.406
126	10.01	33.333	4.76	0.98	15.	0.04	13.8	232.8	150	9.31	33.651	4.01	26.035	198.3	0.460
145	9.41	33.607	4.12	1.22	21.	0.02	18.8	203.1	200	8.49	33.923	3.27	26.377	165.8	0.553
172	8.97	33.785	3.63	1.53	27.	0.01	22.2	183.2	250	7.76	34.023	2.64	26.564	148.1	0.633
205	8.40	33.941	3.22	1.68	32.	0.01	25.1	163.2	300	7.38	34.082	1.93	26.665	138.5	0.707
233	7.96	33.996	2.90	1.80	37.	0.02	27.1	152.8	400	6.59	34.183	0.95	26.852	120.7	0.842
279	7.50	34.060	2.19	1.99	46.	0.01	30.4	141.7	500	5.98	34.277	0.40	27.006	106.1	0.962
331	7.22	34.111	1.59	2.20	52.	0.01	33.1	134.2							
410	6.50	34.193	0.87	2.46	66.	0.00	37.1	118.7							
490	6.04	34.270	0.41	2.67	77.	0.02	39.4	107.3							
570	5.55	34.317	0.32	2.82	86.	0.06	41.1	98.0							

RV DAVID STARR JORDAN

CALCOFI CRUISE 7805

90080

LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER TIME			BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
31 44.5N		121 19.5W		05/30/78		0602 GMT			3740M	320	21KT				
Z	T	S	02	P04	SI03	N02	N03	DT	Z	T	S	02	SIGT	DT	DD
1	16.64	33.113	5.75	0.40	7.	0.00	0.1	375.4	0	16.64	33.113	5.75	24.173	375.4	0.000
11	16.64	33.113	5.82	0.47	7.	0.02	0.1	375.4	10	16.64	33.113	5.82	24.173	375.4	0.038
30	16.63	33.111	5.75	0.55	7.	0.00	0.1	375.3	20	16.64	33.112	5.80	24.173	375.5	0.075
40	16.54	33.108	5.74	0.54	6.	0.03	0.1	373.6	30	16.63	33.111	5.75	24.174	375.3	0.113
54	16.49	33.101	5.75	0.50	6.	0.02	0.1	373.0	50	16.50	33.104	5.75	24.197	373.1	0.188
68	14.99	33.066	6.03	0.42	7.	0.00	0.1	343.7	75	14.23	33.068	5.96	24.670	328.1	0.276
92	12.47	33.104	5.78	0.50	9.	0.16	1.8	291.9	100	11.72	33.118	5.58	25.203	277.4	0.352
110	10.87	33.156	5.29	0.71	13.	0.12	8.3	259.9	125	9.85	33.309	4.86	25.679	232.1	0.416
128	9.70	33.343	4.78	0.84	19.	0.05	13.2	227.1	150	9.33	33.554	4.36	25.956	205.7	0.472
147	9.36	33.519	4.47	1.01	22.	0.13	16.3	208.8	200	8.76	33.916	3.11	26.329	170.4	0.567
175	9.10	33.813	3.47	1.38	31.	0.03	21.7	183.1	250	8.10	34.007	2.92	26.501	154.0	0.651
207	8.66	33.929	3.07	1.60	35.	0.00	25.2	167.9	300	7.36	34.038	2.34	26.633	141.5	0.727
236	8.30	33.993	3.01	1.75	38.	0.00	26.2	157.9	400	6.52	34.139	1.15	26.827	123.0	0.864
282	7.63	34.025	2.61	1.89	45.	0.00	28.6	146.1	500	5.92	34.228	0.61	26.975	109.0	0.986
333	6.93	34.066	1.82	2.15	57.	0.01	31.9	133.7							
413	6.47	34.153	1.06	2.44	68.	0.01	36.4	121.4							
494	5.96	34.224	0.63	2.60	78.		38.6	109.8							
575	5.38	34.260	0.43	2.78	89.		40.3	100.4							

RV DAVID STARR JORDAN

CALCOFI CRUISE 7805

90090

LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER TIME			BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
31 24.0N		122 01.0W		05/30/78		0128 GMT			3830M	320	23KT	1	310 7 7		
Z	T	S	02	P04	SI03	N02	N03	DT	Z	T	S	02	SIGT	DT	DD
1	16.53	33.113	5.75	0.42	3.	0.00	0.0	373.0	0	16.53	33.113	5.75	24.199	373.0	0.000
10	16.53	33.112	5.76	0.43	3.	0.00	0.0	373.0	10	16.53	33.112	5.76	24.198	373.0	0.037
28	16.41	33.107	5.78	0.42	3.	0.00	0.0	370.8	20	16.47	33.109	5.77	24.209	372.0	0.075
37	16.37	33.104	5.79	0.42	3.	0.00	0.0	370.1	30	16.40	33.107	5.78	24.224	370.6	0.112
50	15.98	33.102	5.86	0.40	3.	0.00	0.0	361.8	50	15.98	33.102	5.86	24.316	361.8	0.185
63	15.09	33.114	5.98	0.40	3.	0.00	0.0	342.2	75	13.52	33.124	5.84	24.859	310.0	0.270
85	12.14	33.161	5.60	0.59	7.	0.11	4.7	281.7	100	10.86	33.258	5.08	25.466	252.3	0.340
103	10.66	33.278	4.98	0.88	12.	0.06	11.6	247.4	125	9.60	33.403	4.67	25.794	221.1	0.400
121	9.70	33.386	4.70	1.11	16.	0.03	15.4	223.9	150	9.25	33.581	4.25	25.990	202.6	0.454
139	9.39	33.472	4.52	1.28	19.	0.01	17.1	212.8	200	8.82	33.919	3.14	26.321	171.0	0.549
166	9.09	33.746	3.81	1.62	26.	0.01	21.5	187.9	250	8.07	34.030	2.62	26.523	151.9	0.632
197	8.86	33.906	3.20	1.73	30.	0.01	24.6	172.6	300	7.43	34.046	2.29	26.629	141.9	0.707
224	8.49	34.002	2.76	1.92	35.	0.01	27.0	160.0	400	6.45	34.115	1.18	26.818	123.9	0.845
269	7.78	34.032	2.56	2.08	42.	0.01	29.3	147.6	500	5.82	34.196	0.70	26.962	110.3	0.969
319	7.25	34.054	2.10	2.29	50.	0.01	32.4	138.8							
397	6.47	34.113	1.20	2.60	64.	0.00	37.2	124.3							
476	5.94	34.169	0.81	2.75	75.	0.00	39.4	113.7							
555	5.62	34.273	0.45	2.92	85.	0.00	41.1	102.2							

Z	LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER TIME		BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
	32	50.5N	117	31.0W	05/27/78	2128 GMT	785M	280					13KT	0	280
Z	T	S	02	P04	S103	N02	N03	DT	Z	T	S	02	SIGT	DT	DD
1	18.13	33.370	5.83	0.30	5.		0.1	390.5	0	18.13	33.370	5.83	24.015	390.5	0.000
10	16.78	33.343	6.08	0.33	5.		0.1	361.7	10	16.78	33.343	6.08	24.317	361.7	0.038
29	12.01	33.402	5.26	0.80	11.		7.7	261.6	20	14.15	33.374	5.80	24.922	304.1	0.071
38	11.31	33.487	4.64	1.08	15.		12.3	243.0	30	11.89	33.412	5.19	25.399	258.7	0.399
48	10.98	33.546	4.27	1.29	16.		14.7	233.0	50	10.85	33.567	4.19	25.707	229.4	0.148
62	10.19	33.709	3.67	1.57	22.		19.1	207.9	75	10.16	33.851	3.07	26.049	196.9	0.202
75	10.16	33.851	3.07	1.78	25.		21.5	196.9	100	9.95	34.033	2.51	26.227	180.0	0.249
94	9.98	34.005	2.60	1.96	29.		23.7	182.6	125	9.81	34.112	2.21	26.311	172.1	0.294
118	9.86	34.091	2.30	2.07	32.		25.1	174.3	150	9.57	34.176	1.94	26.401	163.5	0.337
136	9.73	34.141	2.07	2.10	34.		26.1	168.5	200	9.12	34.235	1.64	26.520	152.2	0.417
164	9.41	34.204	1.83	2.06	38.		27.4	158.9	250	8.64	34.232	1.51	26.595	145.0	0.494
193	9.21	34.239	1.63	2.11	40.		28.5	153.2	300	8.22	34.256	1.20	26.677	137.3	0.567
219	8.88	34.218	1.68	2.12	41.		29.1	149.7	400	7.10	34.280	0.65	26.860	120.0	0.701
257	8.59	34.238	1.45	2.16	45.		30.2	143.9	500	6.19	34.321	0.33	27.015	105.3	0.820
314	8.09	34.260	1.12	2.26	51.		31.8	135.1							
385	7.28	34.274	0.72	2.47	61.		35.2	122.8							
454	6.51	34.304	0.43	2.66	73.		37.9	110.6							
529	6.06	34.330	0.30	2.79	81.		39.5	103.1							

Z	LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER TIME		BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
	32	30.0N	118	11.5W	05/28/78	0356 GMT	1850M	290					8KT	0	SIGT
Z	T	S	02	P04	S103	N02	N03	DT	Z	T	S	02	SIGT	DT	DD
2	16.97	33.460	5.87	0.33	3.	0.00	0.1	357.4	0	16.97	33.460	5.87	24.362	357.4	0.000
11	16.84	33.453	5.90	0.31	3.	0.00	0.1	355.1	10	16.85	33.454	5.90	24.384	355.3	0.036
29	12.05	33.458	4.89	0.79	11.	0.23	9.5	258.2	20	14.59	33.455	5.49	24.891	307.0	0.069
39	11.02	33.540	4.31	1.10	15.	0.33	14.7	234.2	30	11.89	33.466	4.83	25.440	254.8	0.097
48	10.73	33.609	3.89	1.29	17.	0.11	16.6	224.1	50	10.65	33.618	3.84	25.783	222.2	0.145
63	10.17	33.667	3.66	1.38	20.	0.05	19.0	210.6	75	9.85	33.743	3.45	26.017	199.9	0.198
76	9.83	33.750	3.43	1.52	23.	0.06	20.8	199.1	100	9.54	33.885	3.02	26.180	184.5	0.246
96	9.59	33.865	3.08	1.62	26.	0.02	22.5	186.8	125	9.18	33.975	2.76	26.307	172.4	0.292
118	9.28	33.956	2.82	1.76	30.	0.00	23.9	175.2	150	8.75	34.022	2.65	26.413	162.4	0.334
137	9.01	33.999	2.67	1.79	33.	0.00	25.1	167.9	200	8.18	34.105	2.16	26.566	147.9	0.413
166	8.46	34.048	2.60	1.91	38.	0.02	26.0	156.1	250	7.73	34.168	1.56	26.682	136.8	0.486
193	8.24	34.097	2.23	2.12	42.	0.04	28.7	149.3	300	7.43	34.235	1.02	26.777	127.8	0.555
221	7.99	34.125	1.94	2.16	46.	0.00	29.9	143.7	400	6.68	34.285	0.60	26.921	114.7	0.681
258	7.66	34.180	1.45	2.33	52.	0.01	31.6	135.0	500	6.04	34.332	0.40	27.042	102.7	0.796
314	7.36	34.249	0.91	2.48	60.	0.01	32.6	125.8							
384	6.80	34.278	0.65	2.69	69.	0.00	36.0	116.2							
454	6.32	34.311	0.47	2.76	77.		37.5	107.7							
529	5.87	34.345	0.37	2.82	86.		38.4	99.7							

Z	LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER TIME		BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
	32	10.0N	118	52.5W	05/28/78	0949 GMT	1385M	270					10KT	0	SIGT
Z	T	S	02	P04	S103	N02	N03	DT	Z	T	S	02	SIGT	DT	DD
0	14.51	33.341	6.05	0.44	7.		1.9	313.7	0	14.51	33.341	6.05	24.821	313.7	0.000
10	14.46	33.340	6.03	0.41	8.		0.9	312.8	10	14.46	33.340	6.03	24.830	312.8	0.031
30	14.32	33.395	5.90	0.40	7.		0.1	306.0	20	14.39	33.351	5.97	24.853	310.6	0.063
40	13.90	33.397	5.82	0.55	9.		4.4	297.5	30	14.32	33.395	5.90	24.902	306.0	0.093
53	12.41	33.350	5.42	0.72	9.		6.6	272.7	50	12.78	33.362	5.53	25.189	278.7	0.152
68	11.27	33.313	4.95	0.89	11.		10.6	255.2	75	10.76	33.357	4.73	25.562	243.2	0.218
92	9.78	33.524	4.24	1.27	18.		17.9	215.0	100	9.56	33.599	4.07	25.952	206.1	0.274
110	9.40	33.684	3.86	1.44	22.		19.9	197.2	125	9.21	33.783	3.49	26.153	187.1	0.324
130	9.15	33.813	3.36	1.64	27.		23.3	183.8	150	8.72	33.956	2.84	26.366	166.9	0.369
148	8.76	33.945	2.88	1.80	32.		24.5	168.2	200	7.98	34.094	2.13	26.586	145.9	0.449
176	8.30	34.047	2.46	2.12	39.		28.3	153.9	250	7.60	34.141	1.66	26.679	137.1	0.521
209	7.89	34.104	2.02	2.30	45.		30.4	143.8	300	7.22	34.202	1.12	26.782	127.3	0.590
237	7.72	34.127	1.80	2.41	48.		31.4	139.7	400	6.69	34.283	0.56	26.917	114.5	0.716
282	7.31	34.178	1.30	2.58	56.		33.5	130.4	500	6.06	34.322	0.38	27.032	103.6	0.831
335	7.07	34.245	0.84	2.76	62.		35.4	122.2							
413	6.61	34.287	0.53	2.89	71.		37.2	113.1							
493	6.09	34.320	0.39	3.03	81.		39.4	104.2							
573	5.83	34.335	0.34	3.11	84.		40.5	100.0							

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Z	LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER TIME		BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
	31	50.0N	119	34.0W	05/31/78	0241 GMT	2555M	280					14KT	2	280
T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD	
1	16.09	33.160	5.83	0.25	3.	0.00	0.0	360.0	0	16.09	33.160	5.83	24.335	360.0	0.000
11	16.06	33.159	5.82	0.27	3.	0.00	0.0	359.4	10	16.06	33.159	5.82	24.341	359.4	0.036
29	15.80	33.158	5.86	0.27	4.	0.00	0.0	353.9	20	15.99	33.159	5.84	24.357	357.9	0.072
39	15.35	33.158	5.97	0.28	4.	0.00	0.0	344.4	30	15.76	33.158	5.87	24.408	353.1	0.108
48	15.03	33.124	6.03	0.30	4.	0.01	0.0	340.2	50	14.83	33.114	6.05	24.939	302.4	0.177
62	13.58	33.073	6.17	0.32	4.	0.01	0.0	315.0	75	12.99	33.092	6.10	24.977	302.4	0.257
76	12.95	33.094	6.10	0.35	5.	0.02	0.2	301.5	100	10.86	33.216	5.26	25.433	255.4	0.327
94	11.34	33.168	5.46	0.67	9.	0.12	7.0	267.1	125	9.64	33.467	4.51	25.838	216.9	0.387
118	9.80	33.392	4.72	1.00	16.	0.07	14.5	225.1	150	9.26	33.674	4.00	26.060	195.8	0.439
136	9.49	33.577	4.22	1.25	20.	0.02	18.3	206.5	200	8.61	33.991	3.00	26.411	162.6	0.530
164	9.05	33.758	3.79	1.58	26.	0.04	21.4	186.4	250	7.98	34.049	2.55	26.552	149.1	0.610
192	8.70	33.968	3.09	1.78	32.	0.00	25.1	165.6	300	7.30	34.094	1.85	26.685	136.5	0.684
219	8.39	34.015	2.86	1.91	35.	0.01	26.5	157.6	400	6.57	34.195	0.90	26.866	119.4	0.817
257	7.88	34.055	2.47	2.05	42.	0.01	28.9	147.3	500	5.78	34.240	0.55	27.001	106.6	0.936
311	7.17	34.104	1.69	2.29	53.	0.00	32.6	134.0							
381	6.76	34.192	1.00	2.55	64.	0.00	35.7	122.1							
452	6.05	34.201	0.72	2.75	75.	0.17	37.7	112.6							
531	5.70	34.277	0.45	2.87	84.	0.07	39.5	102.8							

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Z	LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER TIME		BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
	31	30.0N	120	14.0W	05/31/78	0827 GMT	3925M	280					14KT	2	280
T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD	
1	16.43	33.134	5.58	0.50	4.		0.2	369.3	0	16.43	33.134	5.58	24.238	369.3	0.000
10	16.42	33.133	5.66	0.50	4.		0.2	369.1	10	16.42	33.133	5.66	24.239	369.1	0.037
29	16.42	33.133	5.69	0.50	4.		0.1	369.1	20	16.42	33.133	5.68	24.239	369.1	0.074
39	16.25	33.135	5.64	0.50	4.		0.1	365.3	30	16.41	33.133	5.69	24.242	368.9	0.111
47	16.02	33.133	5.83	0.51	3.		0.1	360.4	50	16.00	33.133	5.83	24.335	360.0	0.184
82	15.74	33.135	5.85	0.53	3.		0.1	354.3	75	14.68	33.118	5.98	24.612	333.7	0.271
76	14.57	33.116	5.99	0.57	4.		0.1	331.4	100	11.31	33.174	5.52	25.320	266.2	0.347
94	11.71	33.147	5.63	0.76	7.		3.7	275.1	125	10.49	33.332	5.05	25.589	240.6	0.468
117	10.78	33.267	5.21	1.01	11.		8.0	250.2	150	9.68	33.563	4.33	25.905	210.6	0.468
136	10.11	33.429	4.80	1.20	14.		12.7	227.3	200	8.70	33.877	3.47	26.307	172.4	0.565
163	9.34	33.678	3.91	1.67	23.		19.0	196.7	250	8.03	34.000	2.80	26.505	153.6	0.649
191	8.83	33.835	3.54	1.77	27.		21.9	177.4	300	7.30	34.059	1.89	26.658	139.1	0.724
219	8.45	33.946	3.32	1.94	32.		24.2	163.6	400	6.52	34.134	0.91	26.823	123.4	0.860
254	7.98	34.004	2.72	2.08	38.		27.0	152.5	500	5.77	34.219	0.40	26.987	107.9	0.982
309	7.18	34.067	1.74	2.37	51.		32.1	136.9							
379	6.72	34.117	1.06	2.60	60.		35.3	127.2							
448	6.08	34.175	0.62	2.80	73.		38.7	114.9							
525	5.67	34.240	0.32	2.95	82.		40.4	105.2							

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Z	LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER TIME		BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
	31	10.5N	120	55.0W	05/31/78	1446 GMT	3740M	280					10KT	2	320
T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD	
2	16.74	33.129	5.74	0.28	2.	0.00	0.5	376.4	0	16.74	33.129	5.74	24.163	376.4	0.000
10	16.73	33.129	5.74	0.28	2.	0.00	0.5	376.2	10	16.73	33.129	5.74	24.165	376.2	0.038
30	16.74	33.128	5.72	0.24	2.	0.00	0.5	376.5	20	16.74	33.129	5.73	24.163	376.4	0.075
39	16.72	33.130	5.72	0.24	2.	0.00	0.5	375.9	30	16.74	33.128	5.72	24.162	376.5	0.113
52	16.72	33.145	5.74	0.28	2.	0.01	0.5	374.8	50	16.72	33.143	5.74	24.178	375.0	0.188
66	15.75	33.047	5.88	0.31	3.	0.00	0.5	361.0	75	14.96	33.037	6.00	24.491	345.1	0.279
90	13.50	33.052	6.10	0.41	4.		0.6	315.0	100	12.48	33.041	6.01	24.999	296.8	0.360
108	11.75	33.043	5.89	0.36	6.		2.3	283.4	125	10.81	33.113	5.52	25.363	262.1	0.430
127	10.72	33.126	5.47	0.48	9.		6.7	259.6	150	9.76	33.404	4.84	25.768	223.6	0.492
146	9.76	33.332	4.98	0.83	15.		12.9	228.9	200	9.36	33.862	3.82	26.191	183.4	0.595
174	9.20	33.740	4.07	1.28	21.		17.9	198.5	250	8.18	33.994	3.07	26.478	156.1	0.682
207	8.42	33.873	3.78	1.50	25.		21.0	180.1	300	7.64	34.036	2.48	26.592	145.4	0.760
235	8.42	33.970	3.27	1.84	33.		25.1	161.3	400	6.59	34.134	1.26	26.815	124.2	0.900
282	7.84	34.018	2.71	2.08	42.		28.2	149.5	500	5.81	34.215	0.64	26.978	108.7	1.022
333	7.29	34.069	2.07	2.38	50.		31.2	138.2							
413	6.46	34.146	1.12	2.45	65.		36.8	121.7							
493	5.85	34.209	0.67	2.68	78.		39.3	109.6							
572	5.54	34.279	0.36	2.81	87.		40.5	100.8							

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Z	LATITUDE		LONGITUDE		MO/DAY/YR	MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
	30	50.0N	121	34.5W	05/31/78	2026	GMT	4120M	280	12KT	2	300	4	6	
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD
1	16.82	33.069	5.75	0.35	3.	0.00	0.0	382.6	0	16.82	33.069	5.75	24.098	382.6	0.000
10	16.71	33.067	5.76	0.37	3.	0.00	0.0	380.3	10	16.71	33.067	5.76	24.122	380.3	0.038
29	16.69	33.065	5.74	0.25	3.	0.00	0.0	380.0	20	16.70	33.066	5.75	24.124	380.2	0.076
57	15.14	32.960	6.02	0.37	3.	0.00	0.0	354.5	30	16.63	33.057	5.75	24.132	379.3	0.114
66	15.24	33.071	5.96	0.42	4.	0.00	0.0	348.5	50	15.50	32.959	5.96	24.312	362.2	0.189
80	14.75	33.084	5.94	0.32	4.	0.00	0.0	337.4	75	15.02	33.080	5.95	24.511	343.3	0.277
94	13.31	33.108	6.08	0.43	4.	0.00	0.0	307.3	100	12.80	33.093	6.04	24.977	298.8	0.358
108	12.15	33.070	5.93	0.39	5.	0.07	0.4	288.5	125	10.57	33.107	5.52	25.401	258.5	0.428
131	10.08	33.148	5.34	0.94	12.	0.00	9.9	247.6	150	9.38	33.384	4.84	25.815	219.1	0.489
150	9.38	33.384	4.84	0.97	17.	0.04	14.3	219.1	200	8.79	33.891	3.41	26.305	172.6	0.588
178	9.11	33.730	3.89	1.74	25.	0.00	21.1	189.4	250	8.05	33.995	3.47	26.499	154.2	0.672
206	8.69	33.919	3.34	1.89	31.	0.03	23.9	169.1	300	7.27	34.026	2.58	26.636	141.2	0.748
234	8.27	33.979	3.59	1.90	33.	0.07	23.8	158.5	400	6.31	34.137	1.12	26.852	120.7	0.884
281	7.61	34.012	2.97	2.06	42.	0.00	27.9	146.8	500	5.74	34.235	0.54	27.003	106.4	1.004
332	6.75	34.053	1.93	2.44	56.	0.10	33.3	132.4							
411	6.28	34.150	1.04	2.78	69.	0.00	37.4	119.2							
492	5.78	34.228	0.57	2.94	80.	0.00	40.0	107.4							
573	5.44	34.291	0.35	3.08	88.	0.01	42.1	98.7							

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Z	LATITUDE		LONGITUDE		MO/DAY/YR	MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
	32	42.7N	117	26.8W	05/13/78	0218	GMT	585M	270	7KT	4	270	5	7	
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD
2A	18.22	33.363	5.80		3.	0.01	0.2	393.1	0	18.22	33.363	5.80	23.988	393.1	0.000
10	16.50	33.331	6.00		4.	0.06	0.1	356.4	10	16.50	33.331	6.00	24.372	356.4	0.037
20	14.87	33.322	6.15		4.	0.00	0.0	322.5	20	14.87	33.322	6.15	24.729	322.5	0.071
29	12.10	33.392	5.19		10.	0.01	7.7	264.0	30	11.96	33.400	5.11	25.376	260.8	0.101
39	11.34	33.455	4.52		13.	0.13	12.0	245.9	50	10.93	33.554	3.97	25.685	231.6	0.150
48	11.04	33.507	4.10		16.	0.08	14.9	236.9	75	9.91	33.762	3.53	26.021	199.5	0.204
57	10.51	33.709	3.62		20.	0.04	17.7	213.1	100	9.82	33.989	2.66	26.213	181.3	0.252
67	10.11	33.718	3.67		22.	0.05	19.4	205.9	125	9.73	34.052	2.44	26.279	175.1	0.298
76	9.90	33.771	3.49		23.	0.00	20.6	198.6	150	9.48	34.087	2.29	26.347	168.6	0.341
85	9.93	33.926	2.81		28.	0.00	22.7	187.6							
94	9.88	33.954	2.79		29.	0.00	23.4	184.8							
104	9.79	34.011	2.57		30.	0.02	24.5	179.1							
115	9.76	34.032	2.47		31.	0.02	24.9	177.1							
124	9.74	34.051	2.44		31.	0.02	25.1	175.4							
134	9.61	34.060	2.39		32.	0.00	25.7	172.7							
144	9.52	34.079	2.35		32.	0.01	26.1	169.8							
153	9.46	34.092	2.26		33.	0.00	26.5	167.9							
162	9.39	34.124	2.14		35.	0.02	26.8	164.5							

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Z	LATITUDE		LONGITUDE		MO/DAY/YR	MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
	32	16.0N	117	07.0W	06/02/78	1413	GMT	58M	350	6KT	2	0	0	0	0
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD
1	18.71	33.429	5.70	0.55	4.		0.1	399.9	0	18.71	33.429	5.70	23.917	399.9	0.000
11	17.58	33.423	6.07	0.52	5.		0.1	373.9	10	17.69	33.423	6.03	24.162	376.5	0.039
20	11.21	33.569	4.44	1.26	15.		12.0	235.3	20	11.21	33.569	4.44	25.646	235.3	0.069
30	10.84	33.611	4.06	1.49	17.		15.7	225.9	30	10.84	33.611	4.06	25.744	225.9	0.093
39	10.64	33.663	3.69	1.62	19.		17.1	218.7							

RV DAVID STARR JORDAN

CALCOFI CRUISE 7805

97035

Z	LATITUDE		LONGITUDE		MO/DAY/YR	MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
	32	05.5N	117	27.5W	06/02/78	0955	GMT	1110M	270	6KT	2	0	0	0	
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD
1	17.78	33.383	5.70	0.56	4.		0.0	381.4	0	17.78	33.383	5.70	24.110	381.4	0.000
11	17.35	33.363	5.77	0.51	4.		0.0	373.1	10	17.39	33.365	5.76	24.189	373.9	0.038
29	13.94	33.280	6.10	0.53	5.		0.1	306.9	20	15.80	33.307	6.02	24.513	343.1	0.074
39	12.44	33.298	5.61	0.83	8.		5.4	277.0	30	13.77	33.281	6.06	24.927	303.6	0.106
53	10.99	33.360	4.80	1.18	13.		10.7	246.9	50	11.25	33.347	4.95	25.466	252.4	0.162
67	10.02	33.412	4.59	1.40	16.		13.9	227.1	75	9.99	33.506	4.28	25.809	219.7	0.221
91	9.94	33.651	3.76	1.60	22.		18.4	208.1	100	9.89	33.738	3.85	26.007	200.9	0.274
109	9.78	33.811	3.92	1.76	26.		18.5	193.8	125	9.33	33.878	3.35	26.209	181.8	0.323
128	9.24	33.888	3.22	1.89	27.		23.0	179.6	150	8.94	34.002	2.73	26.368	166.6	0.367
146	9.01	33.992	2.76	2.19	32.		27.1	168.4	200	8.25	34.090	2.25	26.543	150.0	0.448
174	8.51	34.035	2.64	2.27	37.		26.5	157.8	250	8.23	34.213	1.46	26.643	140.5	0.522
207	8.22	34.107	2.12	2.43	42.		29.5	148.3	300	7.79	34.247	1.07	26.735	131.8	0.593
234	8.26	34.186	1.65	2.45	45.		29.9	143.0	400	6.71	34.287	0.56	26.919	114.3	0.721
279	8.05	34.238	1.21	2.54	49.		31.6	136.1	500	6.06	34.331	0.40	27.038	103.1	0.836
330	7.37	34.254	0.90	2.75	59.		34.5	125.5							
410	6.63	34.292	0.52	2.94	70.		38.4	113.0							
491	6.12	34.327	0.41	3.11	81.		40.9	104.0							
573	5.61	34.360	0.32	3.18	89.		43.0	95.5							

A) A SHAKEDOWN STATION.

B) ALTERNATE VALUE, 12.28 DEGREES.

Z	LATITUDE			LONGITUDE			MO/DAY/YR			MESSENGER TIME			BOTTOM			WIND			SPEED			WEATHER			DOMINANT WAVES		
	T	S	02	P04	SI03	N02	N03	DT	Z	T	S	02	SIGT	DT	DD												
0	16.89	33.439	5.82	0.56	5.		0.1	357.2	0	16.89	33.439	5.82	24.365	357.2	0.000												
10	16.73	33.440	5.85	0.57	5.		0.1	353.6	10	16.73	33.440	5.85	24.403	353.6	0.036												
38	12.70	33.322	5.39	0.85	9.		6.0	280.1	20	15.53	33.382	5.76	24.629	332.0	0.070												
61	10.17	33.420	4.65	1.25	16.		14.4	228.9	30	14.07	33.338	5.59	24.911	305.2	0.102												
79	9.79	33.531	4.30	1.40	19.		17.4	214.6	50	11.19	33.358	5.00	25.485	250.5	0.158												
94	9.54	33.633	4.06	1.53	21.		19.2	203.2	75	9.81	33.506	4.37	25.840	216.8	0.216												
108	9.24	33.749	3.69	1.63	25.		21.5	189.9	100	9.41	33.682	3.91	26.043	197.5	0.269												
126	9.00	33.881	3.26	1.79	30.		23.5	176.5	125	9.01	33.874	3.28	26.257	177.2	0.316												
145	8.82	33.992	2.82	1.91	33.		25.8	165.6	150	8.75	34.004	2.77	26.400	163.6	0.359												
167	8.49	34.023	2.67	1.97	36.		26.9	158.4	200	8.15	34.063	2.45	26.537	150.6	0.439												
192	8.26	34.047	2.57	2.03	38.		27.4	153.3	250	7.71	34.122	1.84	26.649	140.0	0.514												
215	7.95	34.091	2.19	2.14	43.		29.5	145.6	300	7.19	34.167	1.29	26.758	129.6	0.583												
243	7.74	34.113	1.91	2.20	47.		30.2	141.1	400	6.68	34.299	0.49	26.932	113.1	0.710												
276	7.56	34.153	1.56	2.32	52.		31.9	135.6	500	5.98	34.316	0.35	27.037	103.2	0.825												
323	6.84	34.183	1.05	2.50	62.		35.5	123.8																			
383	6.79	34.290	0.56	2.66	68.		36.7	115.2																			
453	6.26	34.304	0.39	2.74	76.		38.7	107.5																			
528	5.84	34.323	0.33	2.74	83.		39.9	101.0																			

Z	LATITUDE			LONGITUDE			MO/DAY/YR			MESSENGER TIME			BOTTOM			WIND			SPEED			WEATHER			DOMINANT WAVES		
	T	S	02	P04	SI03	N02	N03	DT	Z	T	S	02	SIGT	DT	DD												
1	15.71	33.210	6.04	0.51	4.	0.00	0.2	348.2	0	15.71	33.210	6.04	24.459	348.2	0.000												
10	15.55	33.209	6.05	0.47	4.	0.00	0.2	344.9	10	15.55	33.209	6.05	24.494	344.9	0.035												
29	15.05	33.202	6.04	0.46	4.	0.01	0.6	334.9	20	15.37	33.206	6.04	24.531	341.3	0.069												
38	14.42	33.155	6.08	0.43	4.	0.01	0.3	325.5	30	14.97	33.194	6.04	24.608	334.0	0.103												
47	14.32	33.272A	5.87	0.63	7.	0.09	3.2	315.0	50	14.05	33.266	5.86	24.858	310.2	0.167												
61	12.71	33.197	5.79	0.62	6.	0.09	3.3	289.4	75	10.97	33.196	5.31	25.399	258.7	0.239												
75	10.97	33.196	5.31	0.84	10.	0.13	8.7	258.7	100	9.85	33.451	4.55	25.791	221.4	0.299												
93	10.03	33.373	4.77	1.10	15.	0.05	14.0	230.1	125	9.42	33.693	3.85	26.049	196.9	0.352												
116	9.58	33.618	4.08	1.33	20.	0.07	18.4	204.9	150	9.01	33.851	3.36	26.239	178.8	0.400												
134	9.27	33.757	3.65	1.53	24.	0.01	21.7	189.8	200	8.43	34.006	2.76	26.450	158.8	0.486												
162	8.83	33.904	3.19	1.87	31.	0.02	24.5	172.3	250	7.88	34.103	2.03	26.608	143.8	0.564												
190	8.53	33.970	2.96	1.90	34.	0.00	26.2	162.9	300	7.63	34.168	1.48	26.694	135.5	0.636												
217	8.26	34.063	2.40	2.07	40.	0.01	28.3	152.1	400	6.97	34.264	0.67	26.866	119.4	0.769												
254	7.84	34.105	2.00	2.20	46.	0.01	30.5	143.1	500	5.98	34.304	0.40	27.028	104.1	0.887												
309	7.61	34.180	1.38	2.39	53.	0.01	32.7	134.3																			
378	7.24	34.258	0.77	2.58	62.	0.00	35.5	123.5																			
447	6.37	34.274	0.54	2.72	75.		38.1	111.1																			
521	5.89	34.319	0.35	2.85	84.		39.5	101.9																			

Z	LATITUDE			LONGITUDE			MO/DAY/YR			MESSENGER TIME			BOTTOM			WIND			SPEED			WEATHER			DOMINANT WAVES		
	T	S	02	P04	SI03	N02	N03	DT	Z	T	S	02	SIGT	DT	DD												
1	16.71	33.235		0.26	3.	0.00	0.1	368.0	0	16.71	33.235		24.251	368.0	0.000												
10	16.56	33.228	5.77	0.28	3.	0.00	0.1	365.2	10	16.56	33.228	5.77	24.280	365.2	0.037												
29	16.37	33.217	5.80	0.31	3.	0.00	0.1	361.9	20	16.47	33.222	5.79	24.295	363.8	0.073												
39	16.02	33.219	5.93	0.27	3.	0.00	0.1	354.2	30	16.35	33.217	5.81	24.320	361.5	0.110												
48	15.20	33.197	6.04	0.26	3.	0.00	0.1	338.4	50	14.96	33.188	6.05	24.606	334.2	0.179												
62	13.54	33.147	6.09	0.30	3.	0.01	0.2	308.8	75	12.44	33.176	5.73	25.112	286.0	0.257												
76	12.37	33.179	5.70	0.49	6.	0.22	3.6	284.5	100	11.16	33.265	5.18	25.418	256.9	0.326												
94	11.43	33.226	5.31	0.66	9.	0.14	7.5	264.3	125	10.19	33.402	4.52	25.695	230.6	0.387												
117	10.49	33.378	4.76	0.94	13.	0.00	13.0	237.2	150	9.56	33.606	3.89	25.958	205.6	0.442												
136	9.83	33.445	4.208	1.11	17.	0.04	15.4	221.6	200	8.78	33.952	3.11	26.354	168.0	0.537												
162	9.40	33.755	3.67	1.53	25.	0.02	21.1	192.0	250	8.06	34.033	2.66	26.527	151.5	0.619												
191	8.92	33.928	3.18	1.69	29.	0.04	24.2	171.8	300	7.24	34.069	2.01	26.674	137.6	0.694												
218	8.51	33.981	2.99	1.83	33.	0.05	25.8	161.8	400	6.16	34.145	1.00	26.879	118.1	0.827												
255	7.99	34.039	2.60	2.00	40.	0.03	28.4	150.1	500	5.69	34.240	0.52	27.013	105.5	0.944												
310	7.08	34.073	1.88	2.26	52.	0.02	33.0	135.1																			
378	6.31	34.128	1.14	2.53	73.	0.00	37.3	121.2																			
447	5.92	34.183	0.77	2.73	75.	0.01	39.3	112.4																			
521	5.62	34.266	0.43	2.86	85.	0.11	40.7	102.7																			

- A) IT IS ASSUMED THAT TWO DIGITS WERE REVERSED IN RECORDING THE CONDUCTIVITY RATIO. THE LISTED OBSERVED AND INTERPOLATED VALUES INCORPORATE THE CORRECTION OF -0.176 PPT.
- B) IT APPEARS AS THOUGH A TITER OF 0.5332 WAS RECORDED AS 0.8332. THE LISTED OBSERVED AND INTERPOLATED VALUES INCORPORATE THE CORRECTION OF -2.37 ML/L.

RV DAVID STARR JORDAN

CALCOFI CRUISE 7805

97070

Z	LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
	30	55.0N	119	50.6W	06/01/78	1240 GMT	3785M	290						10KT	2
T	S	O2	P04	SI03	N02	N03	DT	Z	T	S	O2	SI6T	DT	DD	
1	16.59	33.215	5.77	0.42	3.	0.00	0.1	366.9	0	16.59	33.215	5.77	24.263	366.9	0.000
10	16.59	33.216	5.71	0.40	3.	0.00	0.0	366.8	10	16.59	33.216	5.71	24.264	366.8	0.037
29	16.13	33.193	5.79	0.40	3.	0.00	0.0	358.4	20	16.35	33.204	5.74	24.308	362.6	0.073
38	16.06	33.188	5.81	0.38	3.	0.00	0.0	357.3	30	16.12	33.193	5.79	24.354	358.2	0.109
52	15.92	33.183	5.83	0.37	3.	0.00	0.0	354.6	50	15.95	33.184	5.83	24.384	355.3	0.181
66	15.39	33.177	5.90	0.36	3.	0.00	0.0	343.8	75	13.94	33.130	5.84	24.778	317.8	0.265
90	11.41	33.151	5.60	0.70	7.	0.33	5.1	271.0	100	10.79	33.196	5.34	25.432	255.6	0.33P
108	10.54	33.261	5.11	0.95	11.	0.12	10.4	246.7	125	10.16	33.428	4.64	25.719	228.3	0.399
126	10.15	33.438	4.61	1.07	15.	0.06	12.6	227.3	150	9.85	33.677	3.98	25.966	204.8	0.453
145	9.92	33.648	4.06	1.33	19.	0.03	17.3	208.0	200	8.97	33.903	3.33	26.286	174.4	0.550
173	9.49	33.768	3.74	1.63	23.	0.05	19.7	192.4	250	7.99	34.015	2.81	26.523	151.9	0.634
205	8.86	33.925	3.26	1.79	29.	0.00	24.0	171.2	300	7.34	34.059	2.23	26.653	139.6	0.709
232	8.28	33.992	2.95	1.95	35.	0.00	26.5	157.7	400	6.42	34.163	1.09	26.860	119.9	0.844
278	7.62	34.036	2.57	2.14	43.	0.00	29.2	145.1	500	5.78	34.258	0.53	27.016	105.2	0.962
329	7.00	34.089	1.76	2.39	55.	0.01	32.4	132.9							
407	6.37	34.170	1.04	2.71	67.	0.00	37.3	118.8							
487	5.84	34.245	0.58	2.90	80.		39.5	106.8							
568	5.58	34.320	0.34	3.00	87.		40.3	98.2							

RV DAVID STARR JORDAN

CALCOFI CRUISE 7805

97080

Z	LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
	30	55.0N	120	31.0W	06/01/78	0652 GMT	3925M	300						10KT	2
T	S	O2	P04	SI03	N02	N03	DT	Z	T	S	O2	SI6T	DT	DD	
0	16.86	33.138	5.74	0.62	4.	0.04	0.0	378.5	0	16.86	33.138	5.74	24.141	378.5	0.000
10	16.84	33.137	5.73	0.57	3.	0.04	0.0	378.1	10	16.84	33.137	5.73	24.145	378.1	0.038
29	16.79	33.133	5.73	0.49	3.	0.01	0.0	377.2	20	16.81	33.136	5.73	24.150	377.6	0.076
39	16.67	33.129	5.77	0.52	3.	0.03	0.0	374.9	30	16.78	33.133	5.73	24.156	377.0	0.113
49	16.64	33.131	5.75	0.53	3.	0.02	0.0	374.1	50	16.64	33.131	5.75	24.187	374.1	0.189
63	16.60	33.127	5.74	0.51	3.	0.01	0.0	373.5	75	15.93	33.152	5.87	24.365	357.1	0.281
78	15.68	33.159	5.91	0.54	3.	0.03	0.0	351.3	100	13.43	33.172	5.99	24.914	304.8	0.364
95	13.82	33.180	6.01	0.50	4.	0.02	0.0	311.8	125	11.86	33.207	5.56	25.246	273.3	0.437
120	12.16	33.172	5.71	0.60	6.	0.18	3.1	281.2	150	10.43	33.396	4.93	25.649	235.0	0.501
139	11.06	33.325	5.12	0.79	10.	0.05	7.4	250.7	200	9.01	33.787	3.93	26.189	183.6	0.608
166	9.67	33.503	4.69	1.36	18.	0.06	15.1	214.8	250	8.24	33.988	3.03	26.465	157.4	0.695
194	9.10	33.748	4.07	1.53	23.	0.10	19.4	187.9	300	7.61	34.060	2.32	26.613	143.3	0.772
221	8.71	33.894	3.47	1.63	29.	0.06	22.6	171.2	400	6.73	34.151	1.16	26.809	124.8	0.912
258	8.11	34.005	2.93	1.84	36.	0.12	26.1	154.3	500	5.77	34.208	0.61	26.977	108.8	1.035
312	7.50	34.068	2.15	2.08	46.	0.18	29.9	141.1							
381	6.96	34.142	1.33	2.36	57.	0.04	34.2	128.4							
451	6.13	34.172	0.82	2.61	71.	0.03	38.2	115.8							
526	5.66	34.230	0.55	2.82	81.	0.03	40.3	105.8							

RV DAVID STARR JORDAN

CALCOFI CRUISE 7805

97090

Z	LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
	30	15.7N	121	10.0W	06/01/78	0140 GMT	3830M	280						14KT	2
T	S	O2	P04	SI03	N02	N03	DT	Z	T	S	O2	SI6T	DT	DD	
1	17.09	33.114	5.71	0.39	3.	0.00	0.0	385.3	0	17.09	33.114	5.71	24.069	385.3	0.000
10	17.03	33.113	5.70	0.39	3.	0.00	0.1	384.1	10	17.03	33.113	5.70	24.083	384.1	0.038
28	16.96	33.106	5.73	0.40	3.	0.00	0.1	383.0	20	16.99	33.109	5.72	24.089	383.5	0.077
37	16.90	33.104	5.72	0.41	3.	0.00	0.1	381.8	30	16.95	33.106	5.73	24.096	382.8	0.115
47	16.78	33.100	5.78	0.44	3.	0.00	0.1	379.4	50	16.59	33.080	5.81	24.160	376.6	0.191
60	15.82	33.009	5.91	0.47	3.	0.00	0.0	365.2	75	15.07	33.002	5.98	24.439	350.1	0.283
74	15.12	32.995	5.98	0.47	3.	0.00	0.0	351.5	100	13.43	33.124	5.99	24.875	308.5	0.366
93	14.04	33.116	6.06	0.52	3.	0.01	0.0	320.8	125	11.42	33.127	5.62	25.264	271.5	0.439
116	12.03	33.125	5.75	0.66	6.	0.15	3.0	282.3	150	10.30	33.328	5.02	25.619	237.8	0.503
134	10.91	33.148	5.47	0.88	9.	0.07	7.4	261.2	200	9.30	33.815	3.85	26.164	186.0	0.611
162	9.99	33.491	4.66	1.43	16.	0.03	14.4	220.8	250	8.40	33.994	3.19	26.445	159.3	0.699
190	9.52	33.746	4.04	1.54	21.	0.03	18.4	194.5	300	7.57	34.049	2.44	26.611	143.5	0.777
219	8.88	33.914	3.54	1.70	28.	0.03	22.2	172.3	400	6.57	34.137	1.20	26.819	123.9	0.916
256	8.32	34.002	3.13	1.90	34.	0.03	25.3	157.5	500	5.86	34.227	0.58	26.987	108.4	1.039
313	7.37	34.058	2.23	2.24	48.	0.03	30.8	140.1							
382	6.74	34.125	1.35	2.50	60.	0.00	35.4	126.9							
452	6.14	34.174	0.85	2.73	72.	0.00	38.5	115.7							
527	5.74	34.262	0.45	2.93	82.	0.05	40.3	104.4							

RV DAVID STARR JORDAN

CALCOFI CRUISE 7805

100030

Z	LATITUDE			LONGITUDE			MO/DAY/YR			MESSENGER			TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
	T	S	02	P04	SI03	N02	N03	DT	Z	T	S	02						SIGT	DT	DD
0	18.04	33.701	7.09	0.30	9.		0.2	364.3	0	18.04	33.701	7.09	24.289	364.3	0.000					
10	16.46	33.695	6.83	0.42	11.		1.3	329.0	10	16.46	33.695	6.83	24.660	329.0	0.035					
29	10.76	33.770	3.30	1.24	20.		18.9	212.8	20	13.32	33.721	4.94	25.359	262.5	0.064					
43	9.73	33.757	3.61	1.39	23.		20.6	197.0	30	10.62	33.765	3.32	25.903	210.8	0.088					
53	9.66	33.807	3.44	1.51	25.		21.6	192.2	50	9.68	33.795	3.51	26.086	193.4	0.129					
67	9.63	33.910	3.00	1.64	28.		23.0	184.1	75	9.74	33.980	2.61	26.220	180.7	0.176					
81	9.82	34.021	2.37	1.76	31.		24.5	178.8	100	9.72	34.033	2.39	26.265	176.4	0.221					
95	9.75	34.026	2.41	1.86	31.		24.7	177.4	125	9.53	34.083	2.26	26.335	169.8	0.265					
119	9.58	34.069	2.28	1.90	33.		25.4	171.5	150	9.35	34.170	1.92	26.433	160.4	0.307					
138	9.43	34.118	2.22	1.99	34.		26.1	165.5	200	8.90	34.277	1.19	26.588	145.8	0.385					
166	9.23	34.236	1.49	2.21	41.		28.5	153.7	250	8.55	34.289	0.83	26.653	139.5	0.458					
194	8.93	34.273	1.26	2.35	44.		29.6	146.4	300	8.01	34.300	0.75	26.743	131.0	0.528					
226	8.80	34.283	0.91	2.35	46.		30.2	143.7	400	6.85	34.280	0.57	26.894	116.7	0.658					
277	8.22	34.295	0.75	2.45	52.		31.9	134.3												
327	7.76	34.301	0.76	2.56	58.		33.6	127.4												
381	7.07	34.285	0.64	2.66	65.		36.2	119.2												

RV DAVID STARR JORDAN

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Z	LATITUDE			LONGITUDE			MO/DAY/YR			MESSENGER			TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
	T	S	02	P04	SI03	N02	N03	DT	Z	T	S	02						SIGT	DT	DD
2	17.07	33.357	5.82	0.32	4.		0.0	367.2	0	17.07	33.357	5.82	24.260	367.2	0.000					
10	17.03	33.352	5.84	0.31	4.		0.0	366.7	10	17.03	33.352	5.84	24.265	366.7	0.037					
38	12.85	33.229	6.06	0.37	6.		1.6	289.7	20	15.79	33.278	5.92	24.492	345.1	0.072					
61	10.78	33.446	4.71	0.82	13.		12.2	237.0	30	14.27	33.233	6.00	24.787	316.9	0.106					
81	10.31	33.771	3.52	1.23	20.		18.9	205.3	50	11.59	33.316	5.44	25.380	260.5	0.163					
94	9.97	33.945	2.93	1.46	25.		21.9	186.9	75	10.39	33.672	3.86	25.870	213.9	0.223					
108	9.79	34.051	2.53	1.58	29.		23.6	176.2	100	9.87	33.999	2.74	26.213	181.3	0.273					
127	9.80	34.116	2.20	1.76	32.		24.4	171.5	125	9.80	34.113	2.22	26.314	171.7	0.318					
146	9.70	34.154	2.05	1.86	33.		25.7	167.1	150	9.68	34.160	2.02	26.371	166.3	0.361					
169	9.57	34.188	1.89	1.92	36.		26.5	162.6	200	9.43	34.244	1.61	26.477	156.3	0.443					
193	9.49	34.234	1.67	2.06	38.		27.0	157.9	250	8.97	34.313	1.12	26.606	144.1	0.520					
216	9.27	34.264	1.47	2.15	40.		27.9	152.3	300	8.52	34.325	0.93	26.686	136.4	0.593					
244	9.02	34.313	1.14	2.24	44.		28.8	144.8	400	7.53	34.309	0.70	26.821	123.6	0.729					
276	8.74	34.313	1.06	2.33	46.		30.0	140.6	500	6.51	34.313	0.44	26.965	109.9	0.853					
322	8.31	34.336	0.80	2.45	52.		31.7	132.6												
385	7.71	34.315	0.73	2.51	57.		33.4	125.6												
455	6.89	34.297	0.57	2.66	66.		36.2	116.0												
530	6.33	34.335	0.35	2.78	75.		38.1	106.0												

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Z	LATITUDE			LONGITUDE			MO/DAY/YR			MESSENGER			TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
	T	S	02	P04	SI03	N02	N03	DT	Z	T	S	02						SIGT	DT	DD
1	17.73	33.423	5.84	0.42	4.		0.1	377.4	0	17.73	33.423	5.84	24.153	377.4	0.000					
11	17.71	33.422	5.79	0.38	4.		0.0	377.0	10	17.71	33.422	5.79	24.157	377.0	0.038					
29	12.68	33.249	5.81	0.51	7.		1.5	285.1	20	15.62	33.304	5.80	24.551	339.5	0.074					
39	11.07	33.323	5.10	0.92	12.		10.1	251.0	30	12.47	33.255	5.74	25.166	280.9	0.105					
48	10.57	33.378	4.75	1.04	15.		11.4	238.6	50	10.50	33.403	4.66	25.642	235.6	0.157					
61	10.24	33.553	4.16	1.31	18.		16.3	220.2	75	10.04	33.689	3.77	25.943	207.0	0.212					
76	10.03	33.696	3.75	1.48	20.		18.9	206.3	100	9.57	33.833	3.32	26.133	188.9	0.262					
95	9.65	33.811	3.38	1.60	25.		20.2	191.7	125	9.21	33.939	3.01	26.275	175.5	0.308					
118	9.32	33.904	3.13	1.74	28.		23.4	179.7	150	8.94	34.045	2.58	26.402	163.4	0.351					
137	9.04	33.996	2.79	1.87	32.		24.1	168.6	200	8.30	34.116	2.15	26.556	148.8	0.431					
165	8.81	34.082	2.40	2.07	37.		26.8	158.8	250	8.03	34.228	1.33	26.684	136.7	0.504					
192	8.35	34.093	2.30	2.17	40.		28.3	151.2	300	7.58	34.251	1.03	26.769	128.6	0.573					
220	8.23	34.178	1.72	2.30	47.		29.6	143.1	400	6.95	34.312	0.54	26.905	115.7	0.701					
258	7.97	34.235	1.26	2.54	50.		31.3	135.2	500	6.14	34.346	0.35	27.040	102.9	0.816					
314	7.45	34.253	0.98	2.66	58.		33.2	126.7												
384	7.08	34.306	0.59	2.79	65.		35.8	117.8												
454	6.49	34.328	0.43	2.89	74.		38.1	108.5												
529	5.94	34.358	0.32	2.92	81.		40.2	99.6												

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Z	LATITUDE			LONGITUDE			MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
	31	00.5N		118	07.0W		06/04/78		1215	GMT						1765M	320	19KT
	T	S	O2	P04	SI03	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD			
1	16.73	33.239	5.71	0.42	3.		0.1	368.2	0	16.73	33.239	5.71	24.249	368.2	0.000			
10	16.70	33.238	5.75	0.40	3.		0.0	367.6	10	16.70	33.238	5.75	24.255	367.6	0.037			
28	15.55	33.225	5.96	0.41	4.		0.0	343.7	20	16.16	33.229	5.86	24.371	356.6	0.073			
37	14.87	33.229	6.01	0.41	4.		0.0	379.3	30	15.41	33.226	5.98	24.538	340.7	0.108			
51	13.57	33.204	5.95	0.41	4.		0.8	305.2	50	13.66	33.207	5.95	24.893	306.9	0.173			
64	12.59	33.188	5.70	0.56	6.		2.7	287.9	75	11.98	33.198	5.52	25.216	276.2	0.246			
87	11.39	33.237	5.30	0.82	9.		6.6	262.8	100	10.63	33.332	4.93	25.565	242.9	0.312			
105	10.38	33.378	4.77	1.02	13.		12.2	235.4	125	10.06	33.586	4.19	25.860	214.8	0.369			
123	10.12	33.566	4.25	1.01	17.		13.4	217.3	150	9.39	33.767	3.65	26.113	190.9	0.421			
141	9.53	33.721	3.77	1.42	22.		19.2	196.5	200	8.66	33.969	3.09	26.386	164.9	0.511			
168	9.19	33.833	3.49	1.67	27.		21.0	183.0	250	7.99	34.047	2.59	26.549	149.4	0.592			
200	8.66	33.969	3.09	1.82	32.		25.1	164.9	300	7.54	34.108	1.92	26.663	138.6	0.666			
227	8.25	34.019	2.82	1.96	37.		26.6	155.2	400	6.57	34.192	0.97	26.862	119.7	0.901			
273	7.77	34.071	2.33	2.13	44.		29.4	144.6	500	5.95	34.270	0.51	27.004	106.3	0.920			
323	7.34	34.138	1.57	2.39	52.		32.5	133.8										
401	6.56	34.192	0.97	2.62	66.		36.9	119.6										
480	6.05	34.254	0.58	2.78	76.		39.3	108.8										
560	5.66	34.315	0.35	2.80	86.		39.9	99.5										

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Z	LATITUDE			LONGITUDE			MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
	30	40.6N		118	50.0W		06/04/78		1842	GMT						2790M	320	16KT
	T	S	O2	P04	SI03	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD			
1	17.13	33.222	5.71	0.39	3.		0.1	378.4	0	17.13	33.222	5.71	24.142	378.4	0.000			
10	17.11	33.221	5.70	0.39	3.		0.0	378.0	10	17.11	33.221	5.70	24.146	378.0	0.038			
29	17.09	33.219	5.73	0.37	3.		0.0	377.7	20	17.10	33.220	5.72	24.148	377.8	0.076			
38	17.02	33.212	5.71	0.36	3.		0.0	376.6	30	17.08	33.218	5.73	24.151	377.5	0.114			
52	16.14	33.158	5.86	0.38	3.		0.0	361.2	50	16.31	33.168	5.83	24.291	364.2	0.188			
67	14.79	33.108	6.02	0.39	3.		0.0	336.5	75	14.06	33.117	5.92	24.743	321.1	0.274			
90	12.75	33.184	5.74	0.55	5.		2.6	291.1	100	11.97	33.257	5.39	25.263	271.7	0.349			
109	11.37	33.335	5.02	0.84	10.		9.3	255.3	125	10.64	33.493	4.44	25.688	231.2	0.412			
128	10.54	33.521	4.35	1.07	15.		14.5	227.5	150	10.05	33.672	3.93	25.928	208.5	0.468			
146	10.10	33.635	4.07	1.25	18.		17.2	211.9	200	9.12	33.997	2.74	26.334	169.8	0.564			
175	9.78	33.888	3.07	1.66	26.		22.0	188.1	250	8.56	34.073	2.40	26.483	155.7	0.648			
207	8.95	34.015	2.69	2.01	39.		26.3	165.8	300	7.84	34.118	2.00	26.626	142.1	0.724			
235	8.77	34.062	2.45	1.96	36.		27.3	159.7	400	7.07	34.238	0.90	26.850	122.7	0.863			
282	8.05	34.094	2.25	2.02	42.		29.3	146.8	500	6.32	34.301	0.42	26.980	108.5	0.985			
333	7.53	34.166	1.50	2.25	51.		32.6	134.3										
412	7.00	34.248	0.83	2.50	62.		35.9	121.0										
490	6.40	34.295	0.43	2.68	73.		38.7	109.9										
571	5.79	34.336	0.31	2.77	83.		40.5	99.4										

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Z	LATITUDE			LONGITUDE			MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
	30	20.5N		119	27.5W		06/04/78		2359	GMT						3740M	310	16KT
	T	S	O2	P04	SI03	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD			
1	16.82	33.126	5.74	0.63	3.	0.00	0.1	378.4	0	16.82	33.126	5.74	24.142	378.4	0.000			
11	16.80	33.126	5.76	0.60	3.	0.00	0.1	378.0	10	16.80	33.126	5.76	24.146	378.0	0.038			
30	16.74	33.121	5.77	0.57	3.	0.00	0.1	377.0	20	16.77	33.124	5.76	24.151	377.5	0.076			
39	16.61	33.116	5.85	0.59	3.	0.00	0.1	374.5	30	16.74	33.121	5.77	24.156	377.0	0.113			
53	16.38	33.170	5.90	0.60	3.	0.00	0.0	365.5	50	16.47	33.163	5.89	24.251	368.0	0.188			
66	15.38	33.082	5.96	0.61	3.	0.00	0.0	350.6	75	14.35	33.082	5.97	24.655	329.5	0.276			
91	12.56	33.082	6.00	0.70	4.	0.04	0.7	295.1	100	11.96	33.121	5.79	25.160	281.5	0.353			
109	11.46	33.174	5.53	0.86	7.	0.16	5.4	268.7	125	10.22	33.297	5.16	25.607	238.9	0.418			
130	9.90	33.340	5.05	1.11	14.	0.02	12.2	230.5	150	9.56	33.510	4.61	25.833	212.7	0.476			
147	9.63	33.479	4.70	1.29	16.	0.02	14.5	216.0	200	8.71	33.909	3.31	26.331	170.1	0.573			
175	9.03	33.753	3.86	1.77	25.	0.01	20.9	186.5	250	7.95	34.034	2.55	26.545	149.9	0.655			
207	8.63	33.939	3.18	1.91	31.	0.02	24.7	166.7	300	7.26	34.060	2.09	26.665	138.5	0.729			
236	8.17	34.019	2.69	2.06	37.	0.04	27.1	154.1	400	6.39	34.164	0.98	26.864	119.5	0.863			
282	7.48	34.048	2.30	2.23	46.	0.04	30.0	142.3	500	5.71	34.253	0.48	27.021	104.7	0.981			
333	6.90	34.085	1.68	2.40	55.	0.04	33.6	131.9										
412	6.31	34.178	0.88	2.65	68.	0.01	37.5	117.5										
492	5.75	34.247	0.51	2.82	80.	0.00	40.4	105.6										
573	5.45	34.301	0.35	2.94	88.	0.00	41.7	98.1										

RV DAVID STARR JORDAN

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100070

LATITUDE		LONGITUDE		MO/DAY/YR	MESSENGER TIME					BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
30 25.5N		119 27.5W		06/11/78	1204 GMT					3740M	320	22KT		340 6 6		
Z	T	S	O2	P04	SI03	N02	N03	DT	Z	T	S	O2	SI6T	DT	DD	
531A	5.74															
534	5.73															
537	5.72															
540	5.71															
543	5.67															
546	5.66															
549	5.65															
552	5.65															
555	5.63															
558	5.63															
561	5.62															
564	5.60															
568	5.61															

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LATITUDE		LONGITUDE		MO/DAY/YR	MESSENGER TIME					BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
30 01.0N		120 07.0W		06/05/78	0511 GMT					3925M	310	20KT				
Z	T	S	O2	P04	SI03	N02	N03	DT	Z	T	S	O2	SI6T	DT	DD	
1	16.91	33.141	5.74	0.58	6.		0.0	379.3	0	16.91	33.141	5.74	24.132	379.3	0.000	
11	16.91	33.139	5.74	0.39	6.		0.0	379.5	10	16.91	33.140	5.74	24.131	379.5	0.038	
30	16.92	33.139	5.74	0.34	6.		0.1	379.7	20	16.91	33.139	5.74	24.131	379.5	0.076	
39	16.76	33.134	5.80	0.33	6.		0.1	376.5	30	16.92	33.139	5.74	24.128	379.7	0.114	
48	16.67	33.132	5.81	0.28	6.		0.1	374.7	50	16.65	33.131	5.81	24.185	374.3	0.190	
63	16.47	33.119	5.80	0.27	5.		0.1	371.2	75	16.12	33.112	5.85	24.291	364.2	0.282	
77	16.02	33.113	5.86	0.27	6.		0.2	361.9	100	13.53	33.257	5.84	24.960	300.5	0.366	
95	13.99	33.235	5.96	0.29	6.		0.2	311.1	125	11.39	33.329	5.16	25.425	256.2	0.436	
120	11.85	33.318	5.25	0.49	10.		4.8	264.9	150	10.27	33.526	4.66	25.778	222.7	0.497	
137	10.46	33.372	4.97	0.81	14.		10.5	237.2	200	9.02	33.860	3.67	26.244	178.4	0.599	
165	10.05	33.659	4.30	1.29	21.		14.8	209.3	250	8.13	34.002	2.97	26.492	154.9	0.684	
194	9.17	33.828	3.79	1.46	26.		20.9	183.0	300	7.45	34.039	2.43	26.621	142.6	0.761	
221	8.57	33.951	3.28	1.65	33.		24.4	164.9	400	6.48	34.128	1.73	26.825	123.3	0.899	
258	8.03	34.007	2.90	1.85	39.		27.1	153.0	500	5.94	34.238	0.57	26.981	108.5	1.021	
314	7.27	34.047	2.27	2.11	50.		30.7	139.6								
384	6.59	34.108	1.40	2.44	63.		35.4	126.2								
454	6.16	34.196	0.79	2.68	74.		37.6	114.3								
531	5.81	34.259	0.50	2.80	83.		38.3	105.4								

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CALCOFI CRUISE 7805

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LATITUDE		LONGITUDE		MO/DAY/YR	MESSENGER TIME					BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
29 40.5N		120 47.0W		06/05/78	0939 GMT					3925M	340	13KT				
Z	T	S	O2	P04	SI03	N02	N03	DT	Z	T	S	O2	SI6T	DT	DD	
1	17.14	33.136	5.74	0.34	3.		0.1	384.8	0	17.14	33.136	5.74	24.074	384.8	0.000	
11	17.13	33.135	5.70	0.29	3.		0.1	384.7	10	17.13	33.135	5.70	24.076	384.7	0.038	
29	17.08	33.135	5.73	0.28	3.		0.0	383.6	20	17.12	33.135	5.72	24.078	384.5	0.077	
38	17.00	33.132	5.77	0.25	3.		0.0	382.0	30	17.07	33.135	5.73	24.090	383.4	0.115	
52	16.92	33.135	5.80	0.27	3.		0.0	380.0	50	16.93	33.135	5.80	24.123	380.2	0.192	
66	15.93	33.115	5.88	0.28	3.		0.0	359.8	75	15.61	33.212	5.89	24.482	346.0	0.283	
89	15.00	33.336	5.90	0.27	3.		0.0	324.1	100	13.90	33.251	5.89	24.878	308.2	0.366	
108	13.03	33.194	5.89	0.29	4.		0.0	295.6	125	11.64	33.334	5.66	25.385	260.0	0.437	
127	11.49	33.351	5.62	0.55	7.		5.9	256.2	150	10.15	33.345	4.95	25.656	234.2	0.500	
145	10.21	33.289	5.14	0.84	12.		9.9	239.2	200	9.25	33.812	3.84	26.170	185.4	0.607	
173	9.90	33.601	4.14	1.31	18.		16.1	211.2	250	8.16	33.998	3.18	26.485	155.5	0.694	
206	9.08	33.847	3.81	1.56	25.		20.9	180.2	300	7.52	34.030	2.57	26.604	144.2	0.771	
234	8.43	33.969	3.38	1.70	32.		23.3	161.6	400	6.50	34.116	1.24	26.812	124.5	0.911	
280	7.75	34.017	2.82	1.90	41.		27.1	148.3	500	5.82	34.222	0.63	26.982	108.4	1.033	
333	7.18	34.050	2.15	2.18	51.		30.8	138.2								
412	6.39	34.129	1.10	2.52	67.		36.4	122.2								
492	5.87	34.214	0.66	2.78	80.		39.4	109.5								
570	5.48	34.288	0.41	2.96	91.		41.6	99.4								

RV DAVID STARR JORDAN

CALCOFI CRUISE 7805

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LATITUDE		LONGITUDE		MO/DAY/YR	MESSENGER TIME					BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
31 06.0N		116 24.5W		06/06/78	2259 GMT					67M	220	5KT	2	310 2 4		
Z	T	S	O2	P04	SI03	N02	N03	DT	Z	T	S	O2	SI6T	DT	DD	
1	16.47	33.630	7.33	0.80	5.		0.2	334.0	0	16.47	33.630	7.33	24.608	334.0	0.000	
11	14.08	33.459	6.88	0.43	5.		0.1	296.5	10	14.30	33.472	6.92	24.965	300.0	0.032	
20	12.31	33.383	5.68	0.58	10.		2.4	268.4	20	12.31	33.383	5.68	25.297	268.4	0.060	
30	11.18	33.402	4.80	0.86	13.		10.8	247.0	30	11.18	33.402	4.80	25.522	247.0	0.086	
49	10.35	33.629	3.85	1.15	19.		17.5	216.4	50	10.31	33.640	3.81	25.859	214.9	0.132	

A) A SPECIAL CAST FOR THE VERIFICATION OF THE PRESSURE FACTORS FOR THE UNPROTECTED REVERSING THERMOMETERS.

Z	LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
	30	56.0N	116	45.0W	06/06/78		1951	GMT						1755M	360	7KT
	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD	
1	17.46	33.372	5.68	0.29	3.		0.1	374.9	0	17.46	33.372	5.68	24.179	374.9	0.000	
10	17.34	33.370	5.68	0.27	3.		0.0	372.3	10	17.34	33.370	5.68	24.206	372.3	0.037	
29	15.42	33.244	6.02	0.29	3.		0.0	339.6	20	16.45	33.307	5.84	24.366	357.0	0.074	
39	14.56	33.207	6.13	0.30	3.		0.1	324.6	30	15.35	33.239	6.03	24.559	338.6	0.109	
48	12.99	33.269	5.88	0.42	6.		2.3	289.4	50	12.71	33.276	5.76	25.137	283.6	0.171	
62	11.37	33.320	5.01	0.76	10.		9.5	256.4	75	10.47	33.443	4.57	25.679	232.1	0.236	
75	10.47	33.443	4.57	0.95	14.		13.3	232.1	100	9.96	33.692	3.81	25.959	205.4	0.291	
94	10.03	33.638	3.99	1.15	19.		17.6	210.5	125	9.56	33.884	3.15	26.175	184.9	0.341	
118	9.74	33.834	3.31	1.34	25.		20.8	191.4	150	9.06	34.004	2.78	26.350	168.4	0.385	
136	9.28	33.952	2.93	1.55	29.		23.8	175.5	200	8.60	34.152	2.03	26.539	150.4	0.467	
164	8.92	34.043	2.64	1.73	34.		25.4	163.3	250	8.35	34.266	1.26	26.666	138.4	0.541	
192	8.73	34.148	2.09	1.92	39.		28.2	152.7	300	8.12	34.307	0.82	26.733	132.0	0.611	
219	8.31	34.159	1.89	2.01	44.		29.5	145.7	400	7.08	34.313	0.55	26.888	117.2	0.741	
256	8.36	34.284	1.13	2.16	49.		31.2	137.2	500	6.29	34.345	0.31	27.019	104.8	0.859	
312	8.01	34.309	0.80	2.28	54.		32.5	130.3								
382	7.25	34.306	0.61	2.43	63.		35.7	120.1								
453	6.62	34.335	0.39	2.52	73.		38.0	109.7								
529	6.13	34.347	0.28	2.60	80.		39.9	102.7								

Z	LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
	30	46.0N	117	04.5W	06/06/78		1640	GMT						1855M	360	4KT
	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD	
1	17.01	33.517	5.81	0.43	4.		0.0	354.2	0	17.01	33.517	5.81	24.396	354.2	0.000	
11	17.00	33.516	5.76	0.40	4.		0.0	354.0	10	17.00	33.516	5.77	24.398	354.0	0.035	
28	15.09	33.332	6.16	0.43	5.		0.0	326.3	20	16.22	33.427	5.95	24.510	343.3	0.070	
40	13.69	33.310	6.04	0.57	6.		1.6	299.8	30	14.88	33.319	6.14	24.725	322.8	0.104	
48	12.46	33.404	5.39	0.77	9.		4.8	269.6	50	12.14	33.411	5.25	25.350	263.3	0.163	
63	10.65	33.468	4.45	1.18	15.		13.6	233.2	75	10.62	33.632	3.87	25.799	220.6	0.223	
75	10.62	33.632	3.87	1.36	17.		15.9	220.6	100	10.12	33.848	3.13	26.053	196.6	0.276	
94	10.32	33.819	3.20	1.48	21.		18.8	201.9	125	9.32	33.936	2.96	26.256	177.3	0.323	
118	9.50	33.906	3.04	1.71	27.		22.9	182.3	150	8.84	34.025	2.62	26.402	163.4	0.367	
136	9.07	33.980	2.82	1.74	31.		24.1	170.2	200	8.36	34.125	2.09	26.554	149.0	0.446	
164	8.67	34.062	2.43	2.03	37.		27.1	158.2	250	7.94	34.185	1.52	26.664	138.5	0.520	
191	8.43		2.20	2.09	40.		27.8		300	7.52	34.226	1.09	26.757	179.7	0.589	
218	8.23	34.144	1.85	2.20	44.		29.3	145.7	400	6.69	34.289	0.59	26.923	114.0	0.717	
254	7.90	34.189	1.48	2.31	49.		30.8	137.7	500	6.12	34.344	0.32	27.041	102.8	0.831	
308	7.46	34.231	1.03	2.48	57.		33.4	128.5								
376	6.86	34.274	0.72	2.66	66.		36.6	117.3								
445	6.41	34.316	0.39	2.79	74.		39.0	108.4								
520	6.03	34.353	0.30	2.90	82.		40.5	101.0								

Z	LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
	30	26.0N	117	44.5W	06/06/78		1020	GMT						2695M	290	10KT
	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD	
1	15.97	33.183	5.88	0.32	4.		0.0	355.7	0	15.97	33.183	5.88	24.380	355.7	0.000	
11	15.97	33.183	5.88	0.31	4.		0.0	355.7	10	15.97	33.183	5.88	24.380	355.7	0.036	
30	15.80	33.228	5.99	0.32	4.		0.0	348.8	20	15.89	33.205	5.93	24.414	352.5	0.071	
39	15.21	33.191	6.00	0.32	4.		0.0	339.1	30	15.80	33.228	5.99	24.452	348.8	0.106	
48	14.88	33.192	6.01	0.32	4.		0.0	332.2	50	14.70	33.184	6.01	24.659	329.1	0.174	
63	13.23	33.137	6.04	0.39	4.		0.2	303.6	75	11.86	33.165	5.64	25.213	276.4	0.250	
76	11.76	33.169	5.60	0.60	7.		4.9	274.3	100	10.79	33.374	4.85	25.569	242.5	0.316	
95	11.03	33.307	5.04	0.83	11.		9.1	251.5	125	9.80	33.658	3.92	25.959	205.4	0.372	
117	10.04	33.600	4.20	1.19	18.		16.6	213.5	150	9.31	33.849	3.24	26.189	183.6	0.422	
136	9.55	33.724	3.57	1.39	22.		19.9	196.6	200	8.79	34.053	2.54	26.431	160.7	0.509	
165	9.13	33.968	2.97	1.76	31.		24.1	172.0	250	7.93	34.093	2.19	26.593	145.3	0.588	
193	8.94	34.038	2.62	1.91	34.		25.6	164.0	300	7.84	34.202	1.40	26.692	135.9	0.660	
221	8.31	34.086	2.34	2.07	40.		28.2	151.1	400	6.83	34.271	0.68	26.889	117.2	0.793	
257	7.88	34.094	2.15	2.18	45.		29.9	144.4	500	6.04	34.306	0.42	27.021	104.7	0.910	
314	7.83	34.237	1.14	2.47	53.		32.7	133.1								
384	6.99	34.263	0.74	2.69	64.		36.3	119.8								
454	6.37	34.293	0.51	2.84	74.		39.0	109.6								
529	5.86	34.310	0.38	2.93	85.		40.4	102.2								

RV DAVID STARR JORDAN

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Z	LATITUDE			LONGITUDE			MO/DAY/YR			MESSENGER			TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
	T	S	02	P04	S103	N02	N03	DT	Z	T	S	02						SIGT	DT	DD
2	17.09	33.219	5.70	0.91	5.	0.1	377.7	0	17.09	33.219	5.70	24.150	377.7	0.000						
11	17.08	33.217	5.69	0.86	4.	0.0	377.6	10	17.08	33.217	5.69	24.150	377.6	0.038						
29	17.02	33.211	5.73	0.82	4.	0.0	376.7	20	17.05	33.214	5.71	24.155	377.2	0.076						
39	16.33	33.146	5.91	0.77	4.	0.0	366.2	30	16.96	33.203	5.75	24.166	376.1	0.113						
49	15.57	33.270	6.06	0.76	4.	0.0	344.5	50	15.53	33.225	6.06	24.509	343.4	0.185						
63	15.18	33.246	5.98	0.79	4.	0.0	334.4	75	14.71	33.244	5.96	24.703	325.0	0.269						
77	14.59	33.241	5.96	0.77	4.	0.0	322.7	100	11.99	33.256	5.34	25.259	272.1	0.345						
95	12.40	33.227	5.50	0.95	7.	4.4	281.5	125	10.71	33.479	4.51	25.665	233.4	0.408						
118	10.97	33.408	4.74	1.18	13.	10.6	243.0	150	9.96	33.690	3.88	25.958	205.6	0.464						
137	10.35	33.595	4.14	1.46	17.	15.8	218.9	200	9.02	33.975	3.04	26.334	169.9	0.560						
165	9.57	33.782	3.64	1.78	25.	19.9	192.6	250	8.41	34.125	2.11	26.547	149.6	0.642						
193	9.10	33.940	3.19	1.89	29.	23.9	173.7	300	7.84	34.197	1.43	26.689	136.2	0.715						
220	8.81	34.058	2.59	2.03	34.	26.3	160.5	400	6.90	34.262	0.72	26.873	118.7	0.848						
257	8.31	34.135	2.01	2.23	42.	29.4	147.5	500	6.13	34.312	0.42	27.014	105.4	0.967						
311	7.73	34.209	1.30	2.42	52.	32.3	133.8													
381	7.11	34.251	0.83	2.70	61.	36.1	122.3													
452	6.39	34.290	0.49	2.85	73.	38.8	110.1													
528	6.07	34.321	0.38	2.92	79.	39.9	103.9													

RV DAVID STARR JORDAN

CALCOFI CRUISE 7805

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Z	LATITUDE			LONGITUDE			MO/DAY/YR			MESSENGER			TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
	T	S	02	P04	S103	N02	N03	DT	Z	T	S	02						SIGT	DT	DD
1	17.31	33.177	5.71	0.48	3.	0.00	0.1	385.7	0	17.31	33.177	5.71	24.065	385.7	0.000					
11	17.26	33.176	5.72	0.47	3.	0.00	0.1	384.6	10	17.26	33.176	5.72	24.077	384.6	0.039					
30	17.23	33.170	5.72	0.47	3.	0.00	0.1	384.4	20	17.24	33.175	5.72	24.080	384.3	0.077					
39	17.20	33.186	5.84	0.48	3.	0.00	0.1	382.6	30	17.23	33.170	5.72	24.079	384.4	0.116					
49	17.26	33.213	5.81	0.46	3.	0.00	0.1	382.0	50	17.25	33.220	5.81	24.111	381.3	0.192					
63	16.70	33.248	5.82	0.47	2.	0.00	0.1	366.9	75	15.09	33.071	5.98	24.489	345.3	0.284					
77	14.79	33.044	6.00	0.50	3.	0.00	0.1	341.2	100	12.89	33.194	5.85	25.038	293.0	0.364					
96	13.13	33.182	5.89	0.57	4.	0.04	0.2	298.4	125	11.29	33.210	5.47	25.352	263.2	0.434					
119	11.79	33.212	5.57	0.72	7.	0.13	4.3	271.7	150	9.77	33.365	4.88	25.737	226.5	0.496					
138	10.28	33.238	5.22	0.97	11.	0.04	10.1	244.1	200	8.75	33.890	3.48	26.310	172.1	0.597					
166	9.36	33.573	4.38	1.47	21.	0.03	17.5	204.8	250	7.98	34.021	2.79	26.530	151.3	0.680					
194	8.84	33.853	3.59	1.67	27.	0.01	22.6	176.2	300	7.32	34.063	2.17	26.658	139.1	0.755					
221	8.46	33.977	3.16	1.83	32.	0.00	25.1	161.4	400	6.09	34.126	1.19	26.873	118.7	0.889					
258	7.85	34.025	2.70	2.03	40.	0.01	28.3	149.1	500	5.81	34.281	0.47	27.031	103.8	1.006					
313	7.17	34.071	2.02	2.26	51.	0.03	31.9	136.5												
383	6.24	34.107	1.35	2.53	66.	0.00	36.5	122.0												
453	5.80	34.198	0.75	2.74	79.		39.3	109.9												
530	5.82	34.323	0.35	2.89	83.		40.3	103.7												

RV DAVID STARR JORDAN

CALCOFI CRUISE 7805

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Z	LATITUDE			LONGITUDE			MO/DAY/YR			MESSENGER			TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
	T	S	02	P04	S103	N02	N03	DT	Z	T	S	02						SIGT	DT	DD
1	17.64	33.209	5.69	0.42	2.	0.1	390.9	0	17.64	33.209	5.69	24.011	390.9	0.000						
10	17.61	33.209	5.66	0.41	2.	0.1	390.2	10	17.61	33.209	5.66	24.018	390.2	0.039						
29	17.46	33.193	5.68	0.38	2.	0.0	387.9	20	17.54	33.201	5.67	24.027	389.3	0.078						
38	17.35	33.190	5.70	0.40	2.	0.0	385.7	30	17.45	33.193	5.68	24.044	387.7	0.117						
48	17.26	33.178	5.80	0.39	2.	0.0	384.5	50	17.16	33.167	5.81	24.092	383.1	0.194						
62	16.30	33.095	5.85	0.42	2.	0.0	370.0	75	15.13	33.025	6.00	24.443	349.7	0.286						
76	15.05	33.024	6.01	0.43	3.	0.0	348.0	100	14.14	33.263	5.94	24.838	312.1	0.370						
94	14.42	33.237	5.97	0.43	3.	0.0	319.6	125	12.65	33.289	5.70	25.158	281.6	0.445						
117	13.19	33.282	5.81	0.54	4.	1.1	292.2	150	11.04	33.351	5.18	25.506	248.5	0.512						
136	11.90	33.304	5.51	0.73	7.	4.7	266.8	200	9.48	33.710	4.39	26.052	196.6	0.625						
164	10.35	33.424	4.87	1.31	14.	12.4	231.5	250	8.36	33.973	3.13	26.435	160.2	0.716						
192	9.67	33.648	4.61	1.36	17.	14.9	204.1	300	7.60	34.047	2.45	26.605	144.1	0.794						
220	9.02	33.844	3.78	1.70	25.	21.2	179.6	400	6.68	34.140	1.28	26.807	125.0	0.934						
257	8.22	33.993	3.01	2.01	35.	26.6	156.7	500	5.62	34.185	0.74	26.978	108.7	1.057						
313	7.46	34.051	2.31	2.28	46.	30.7	141.9													
383	6.91	34.135	1.41	2.58	59.	34.7	128.3													
452	5.99	34.152	0.99	2.81	73.	38.4	115.5													
528	5.50	34.209	0.61	2.96	85.	40.5	105.5													

RV DAVID STARR JORDAN

CALCOFI CRUISE 7805

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Z	LATITUDE			LONGITUDE			MO/DAY/YR			MESSENGER			TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
	T	S	02	P04	S103	N02	N03	DT	Z	T	S	02						SIGT	DT	DD
1	14.80	33.536	6.35	0.40	7.	0.0	305.4	0	14.80	33.536	6.35	24.908	305.4	0.000						
9	13.51	33.558	5.59	0.68	11.	3.6	278.1	10	13.38	33.565	5.48	25.227	275.1	0.029						
28	11.62	33.692	3.77	1.36	17.	14.3	233.3	20	12.26	33.635	4.46	25.501	249.0	0.055						
42	10.82	33.746	3.25	1.56	20.	17.2	215.6	30	11.47	33.702	3.66	25.700	230.1	0.079						
52	10.60	33.775	3.19	1.64	21.	18.8	209.7	50	10.63	33.770	3.19	25.904	210.7	0.124						
67	10.38	33.839	3.06	1.71	23.	20.0	201.4	75	10.36	33.849	3.01	26.012	200.4	0.175						
81	10.34	33.860	2.94	1.71	24.	20.3	199.2	100	9.89	34.014	2.25	26.222	180.5	0.223						
99	9.91	34.006	2.27	1.88	30.	23.8	181.4	125	9.51	34.160	2.02	26.398	163.8	0.267						
123	9.53	34.154	2.04	1.93	35.	24.5	164.4	150	9.39	34.210	1.77	26.458	158.1	0.308						
142	9.41	34.190	1.87	2.00	37.	26.3	159.9	200	9.24	34.282	1.37	26.539	150.4	0.387						
175	9.34	34.264	1.50	2.04	40.	26.6	153.4	250	8.95	34.321	1.08	26.615	143.1	0.462						
203	9.22	34.293	1.36	2.15	43.	28.6	150.1													
241	9.00	34.314	1.13	2.18	45.	29.1	144.4													

RV DAVID STARR JORDAN

CALCOFI CRUISE 7805

107035

Z	LATITUDE			LONGITUDE			NO/DAY/YR			MESSENGER TIME			BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
	T	S	02	P04	S103	N02	N03	DT	Z	T	S	02	SIGT	DT	DD				
2	17.62	33.363	5.65	0.32	3.		0.1	379.2	0	17.62	33.363	5.65	24.133	379.2	0.000				
10	17.34	33.356	5.68	0.26	3.		0.0	373.3	10	17.34	33.356	5.68	24.195	373.3	0.038				
39	12.64	33.246	5.72	0.51	6.		3.4	284.5	20	15.89	33.286	5.69	24.476	346.5	0.074				
81	10.90	33.398	4.71	0.93	12.		12.0	242.6	30	14.26	33.247	5.71	24.800	315.7	0.107				
80	10.19	33.592	4.10	1.22	17.		16.9	216.5	50	11.61	33.309	5.25	25.371	261.4	0.165				
93	9.92	33.732	3.63	1.41	21.		19.4	201.8	75	10.32	33.539	4.25	25.778	222.7	0.226				
107	9.74	33.846	3.34	1.52	24.		21.2	190.5	100	9.83	33.792	3.47	26.060	195.9	0.278				
126	9.43	33.983	2.91	1.69	28.		23.5	175.5	125	9.44	33.977	2.93	26.267	176.2	0.325				
146	9.31	34.031	2.73	1.80	30.		24.3	170.1	150	9.28	34.045	2.67	26.347	168.6	0.369				
169	9.12	34.111	2.34	1.93	34.		26.5	161.3	200	8.91	34.189	1.87	26.518	152.4	0.451				
193	9.00	34.176	1.96	2.09	38.		27.7	154.7	250	8.42	34.252	1.32	26.643	140.5	0.527				
215	8.72	34.211	1.68	2.19	41.		28.8	147.8	300	7.90	34.277	0.96	26.742	131.1	0.597				
244	8.49	34.248	1.37	2.28	45.		30.1	141.7	400	7.09	34.304	0.57	26.880	118.1	0.727				
277	8.12	34.263	1.12	2.42	50.		31.5	135.3	500	6.46	34.339	0.34	26.993	107.4	0.847				
324	7.69	34.290	0.82	2.53	56.		33.1	127.2											
384	7.19	34.297	0.62	2.67	63.		35.4	119.9											
453	6.77	34.326	0.42	2.75	69.		37.3	112.2											
528	6.27	34.344	0.32	2.81	77.		38.5	104.6											

RV DAVID STARR JORDAN

CALCOFI CRUISE 7805

107040

Z	LATITUDE			LONGITUDE			NO/DAY/YR			MESSENGER TIME			BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
	T	S	02	P04	S103	N02	N03	DT	Z	T	S	02	SIGT	DT	DD				
1	17.12	33.333	5.71	0.44	3.		0.1	370.0	0	17.12	33.333	5.71	24.230	370.0	0.000				
10	16.72	33.293	5.79	0.40	4.		0.1	364.0	10	16.72	33.293	5.79	24.293	364.0	0.037				
28	15.56	33.276	5.98	0.42	4.		0.1	340.2	20	16.21	33.286	5.90	24.404	353.4	0.073				
37	14.33	33.193	6.06	0.43	4.		0.1	321.0	30	15.28	33.257	6.00	24.590	335.7	0.107				
87	13.84	33.202	5.97	0.41	4.		0.1	310.6	50	13.41	33.202	5.86	24.940	302.3	0.171				
80	11.83	33.231	5.41	0.74	8.		6.2	271.0	75	11.17	33.500	4.72	25.599	239.7	0.239				
94	10.34	33.656	3.96	1.26	18.		15.0	214.2	100	10.22	33.714	3.79	25.933	208.0	0.296				
117	10.01	33.845	3.39	1.55	22.		20.0	194.9	125	9.96	33.888	3.25	26.113	190.9	0.346				
185	9.91	33.935	3.09	1.64	25.		20.0	186.7	150	9.86	34.022	2.76	26.232	179.5	0.393				
183	9.81	34.085	2.50	1.94	30.		24.0	174.0	200	9.48	34.145	2.19	26.392	164.3	0.481				
191	9.56	34.125	2.30	2.01	33.		25.1	167.1	250	9.10	34.244	1.58	26.532	151.1	0.562				
219	9.32	34.189	1.93	2.10	37.		26.0	158.6	300	8.51	34.319	0.99	26.683	136.8	0.637				
256	9.05	34.253	1.52	2.21	41.		27.3	149.7	400	7.28	34.322	0.60	26.867	119.3	0.771				
312	8.34	34.331	0.87	2.45	51.		30.4	133.4	500	6.46	34.341	0.39	26.994	107.3	0.891				
382	7.44	34.320	0.65	2.63	61.		34.2	121.6											
453	6.87	34.331	0.48	2.77	69.		36.9	113.2											
527	6.22	34.348	0.34	2.87	79.		39.7	103.7											

RV DAVID STARR JORDAN

CALCOFI CRUISE 7805

107050

Z	LATITUDE			LONGITUDE			NO/DAY/YR			MESSENGER TIME			BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
	T	S	02	P04	S103	N02	N03	DT	Z	T	S	02	SIGT	DT	DD				
1	16.83	33.249	4.83	0.33	3.		0.0	369.7	0	16.83	33.249		24.233	369.7	0.000				
10	16.79	33.248	5.71	0.35	3.		0.0	368.9	10	16.79	33.248	5.71	24.242	368.9	0.037				
29	16.15	33.266	5.84	0.41	3.		0.0	353.6	20	16.59	33.254	5.78	24.293	364.0	0.074				
38	15.36	33.231	6.00	0.45	3.		0.0	339.3	30	16.08	33.263	5.86	24.416	352.2	0.110				
87	14.30	33.232	6.12	0.56	4.		0.0	317.5	50	14.02	33.225	6.08	24.833	312.6	0.176				
61	13.10	33.204	5.77	0.62	5.		2.3	296.2	75	11.80	33.255	5.27	25.294	268.7	0.249				
75	11.80	33.255	5.27	1.13	10.		7.5	268.7	100	10.55	33.472	4.50	25.686	231.4	0.312				
93	10.84	33.385	4.78	1.47	15.		12.3	242.5	125	9.97	33.712	3.71	25.973	204.2	0.367				
116	10.08	33.659	3.91	1.71	20.		18.1	209.8	150	9.55	33.864	3.31	26.162	186.2	0.417				
135	9.88	33.758	3.55	1.81	23.		20.2	199.3	200	8.37	34.001	3.03	26.455	158.4	0.505				
163	9.21	33.945	3.16	1.84	29.		23.3	175.0	250	7.55	34.078	2.16	26.637	141.1	0.581				
191	8.58	33.990	3.13	1.83	32.		24.5	162.2	300	7.20	34.140	1.51	26.736	131.7	0.652				
219	7.98	34.024	2.74		41.		28.0	151.0	400	6.59	34.265	0.65	26.917	114.6	0.780				
256	7.49	34.088	2.05		52.			139.5	500	6.15	34.330	0.35	27.027	104.2	0.896				
312	7.14	34.152	1.40		61.			130.0											
382	6.67	34.247	0.75		75.			116.9											
453	6.39	34.305	0.45		79.			109.0											
528	5.98	34.340	0.33		82.			101.4											

RV DAVID STARR JORDAN

CALCOFI CRUISE 7805

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E	LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		DD
	29	32.0N	118	01.5W	06/07/78	2035	GMT	3640M						300	5KT	
T	S	O2	P04	SI03	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD		
1	17.36	33.243	5.67	0.34	3.	0.0	382.0	0	17.36	33.243	5.67	24.104	382.0	0.000		
9	17.19	33.243	5.67	0.29	3.	0.0	378.2	10	17.18	33.243	5.67	24.147	378.0	0.038		
29	16.82	33.229	5.74	0.29	3.	0.0	370.9	20	17.04	33.237	5.71	24.175	375.2	0.076		
38	16.34	33.209	5.85	0.32	3.	0.0	361.8	30	16.77	33.228	5.75	24.230	370.0	0.113		
46	15.86	33.170	5.88	0.31	3.	0.0	354.3	50	15.60	33.176	5.91	24.457	348.4	0.185		
61	14.88	33.219	5.97	0.35	3.	0.0	330.2	75	14.02	33.250	5.85	24.853	310.6	0.268		
75	14.02	33.250	5.85		4.	0.4	310.6	100	11.34	33.135	5.56	25.286	269.5	0.341		
93	11.87	33.102	5.74	0.50	6.	3.2	281.2	125	10.19	33.370	4.90	25.670	232.9	0.404		
116	10.51	33.285	5.08	0.74	12.	9.3	244.4	150	9.45	33.630	4.24	25.995	202.1	0.459		
135	9.90	33.468	4.69	0.96	15.	13.6	221.0	200	8.68	33.964	3.31	26.379	165.6	0.553		
162	9.16	33.751	3.89	1.45	24.	19.4	188.6	250	7.96	34.016	2.90	26.528	151.4	0.634		
190	8.83	33.935	3.38	1.61	29.	23.1	170.0	300	7.36	34.046	2.32	26.639	140.9	0.710		
218	8.39	33.989	3.21	1.73	33.	24.5	159.5	400	6.36	34.158	0.97	26.863	119.7	0.845		
255	7.90	34.018	2.84	1.89	39.	27.2	150.4	500	5.92	34.256	0.55	26.997	106.9	0.964		
310	7.25	34.053	2.19	2.13	49.	30.3	138.9									
379	6.46	34.138	1.11	2.49	65.	36.5	122.4									
448	6.21	34.201	0.78	2.67	72.	37.7	114.6									
522	5.77	34.282	0.46	2.88	82.	40.1	103.2									

RV DAVID STARR JORDAN

CALCOFI CRUISE 7805

107070

Z	LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		DD
	29	11.0N	118	41.0W	06/08/78	0204	GMT	2980M						280	9KT	
T	S	O2	P04	SI03	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD		
1	18.03	33.276	5.51	0.30	3.	0.0	395.0	0	18.03	33.276	5.51	23.968	395.0	0.000		
11	17.86	33.281	5.60	0.24	2.	0.0	390.7	10	17.87	33.281	5.59	24.010	390.9	0.039		
29	17.77	33.278	5.62	0.25	2.	0.0	388.8	20	17.80	33.280	5.61	24.027	389.4	0.078		
39	17.67	33.262	5.69	0.22	2.	0.0	387.7	30	17.76	33.278	5.63	24.035	388.6	0.117		
48	17.43	33.219	5.70	0.19	1.	0.0	385.4	50	17.32	33.198	5.71	24.079	384.4	0.195		
62	16.68	33.114	5.80	0.20	1.	0.0	376.2	75	16.53	33.236	5.83	24.292	364.1	0.289		
76	16.52	33.249	5.83	0.21	1.	0.0	362.8	100	14.86	33.460	5.77	24.838	312.1	0.374		
95	15.47	33.497	5.81	0.12	1.	0.0	322.2	125	11.99	33.303	5.52	25.296	268.5	0.447		
118	12.58	33.301	5.59	0.35	3.	2.8	279.4	150	10.63	33.406	5.08	25.622	237.5	0.511		
137	11.21	33.309	5.36	0.51	6.	5.9	254.4	200	9.32	33.826	3.82	26.169	185.5	0.619		
165	10.15	33.557	4.69	1.08	15.	13.8	218.5	250	8.36	34.000	3.09	26.456	158.2	0.707		
193	9.41	33.785	3.95	1.35	21.	19.4	189.9	300	7.42	34.049	2.40	26.632	141.5	0.784		
220	9.09	33.916	3.51	1.47	25.	21.4	175.3	400	6.57	34.161	1.19	26.838	122.1	0.921		
258	8.15	34.015	2.98	1.73	34.	26.3	154.1	500	6.09	34.297	0.47	27.008	105.9	1.041		
314	7.24	34.053	2.21	2.02	46.	31.1	138.8									
384	6.66	34.133	1.39	2.36	58.	35.7	125.3									
454	6.32	34.251	0.63	2.66	68.	39.3	112.2									
528	5.94	34.313	0.37	2.82	76.	41.3	102.9									

RV DAVID STARR JORDAN

CALCOFI CRUISE 7805

107080

Z	LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		DD
	28	51.5N	119	20.0W	06/08/78	0710	GMT	3545M						340	15KT	
T	S	O2	P04	SI03	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD		
1	17.80	33.194	5.63	0.47	3.	0.0	395.6	0	17.80	33.194	5.63	23.961	395.6	0.000		
10	17.80	33.193	5.61	0.38	3.	0.0	395.7	10	17.80	33.193	5.61	23.960	395.7	0.040		
29	17.63	33.185	5.66	0.36	3.	0.0	392.4	20	17.74	33.190	5.63	23.973	394.5	0.079		
39	17.47	33.168	5.68	0.32	3.	0.0	390.0	30	17.61	33.184	5.66	23.999	392.0	0.119		
48	16.80	33.113	5.85	0.32	3.	0.0	378.9	50	16.79	33.130	5.85	24.151	377.5	0.196		
62	16.72	33.232	5.84	0.32	3.	0.0	368.5	75	16.71	33.501	5.74	24.453	348.7	0.287		
76	16.71	33.523	5.73	0.31	3.	0.0	347.1	100	14.91	33.480	5.73	24.842	311.7	0.370		
93	15.64	33.510	5.78	0.29	3.	0.0	324.8	125	12.49	33.374	5.51	25.255	272.4	0.444		
118	13.00	33.402	5.56	0.46	5.	2.1	279.8	150	11.01	33.411	5.21	25.559	243.5	0.509		
135	11.87	33.349	5.43	0.61	7.	4.8	263.0	200	9.47	33.801	4.01	26.124	189.8	0.619		
164	10.37	33.516	4.94	1.10	13.	11.0	225.1	250	8.33	34.005	3.07	26.464	157.5	0.708		
192	9.70	33.737	4.24	1.29	18.	16.4	198.0	300	7.60	34.056	2.37	26.613	143.4	0.786		
220	8.93	33.933	3.50	1.59	27.	22.1	171.6	400	6.50	34.119	1.40	26.814	124.3	0.925		
257	8.22	34.010	3.00	1.85	35.	25.8	155.5	500	5.88	34.250	0.54	26.997	107.0	1.047		
313	7.44	34.064	2.19	2.15	47.	30.3	140.6									
384	6.64	34.096	1.60	2.47	59.	34.6	127.7									
454	6.12	34.203	0.79	2.74	72.	38.1	113.3									
529	5.78	34.270	0.49	2.90	80.	39.7	104.2									

Z	LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
	T	S	O2	P04	SI03	NO2	NO3	DT						Z	T	S
2	16.35	33.455	5.94	0.45	3.			0.0	344.1	0	16.35	33.455	5.94	24.502	344.1	0.000
11	15.99	33.452	6.01	0.43	2.			0.0	336.5	10	16.03	33.452	6.00	24.572	337.4	0.034
30	12.83	33.405	5.43	0.69	5.			3.8	276.4	20	14.71	33.418	5.85	24.836	312.3	0.067
39	11.69	33.442	4.83	0.96	9.			8.8	253.0	30	12.83	33.405	5.43	25.213	276.4	0.096
48	11.36	33.510	4.49	1.12	12.			11.8	242.2	50	11.28	33.520	4.43	25.594	240.1	0.148
62	10.83	33.568	4.16	1.23	14.			13.9	228.9	75	10.36	33.626	4.07	25.839	216.9	0.205
76	10.33	33.631	4.06	1.30	17.			16.0	215.9	100	9.78	33.847	3.40	26.111	191.1	0.257
95	9.79	33.810	3.54	1.46	22.			19.2	194.0	125	9.51	33.963	3.06	26.245	178.3	0.304
118	9.72	33.944	3.05	1.62	25.			21.8	183.0	150	8.86	34.003	3.02	26.380	165.5	0.347
137	9.11	33.984	3.09	1.73	29.			23.3	170.5	200	8.36	34.092	2.33	26.529	151.4	0.428
165	8.68	34.024	2.86	1.91	33.			25.0	161.1	250	7.83	34.131	1.86	26.638	141.0	0.503
192	8.43	34.088	2.37	2.01	38.			27.2	152.7	300	7.96	34.289	1.00	26.743	131.0	0.573
220	8.17	34.096	2.25	2.05	41.			28.4	148.4	400	7.12	34.317	0.51	26.885	117.6	0.704
257	7.77	34.144	1.74	2.21	47.			30.6	139.2	500	6.44	34.341	0.33	26.998	106.9	0.822
313	8.03	34.330	0.80	2.42	53.			32.1	129.0							
383	7.32	34.313	0.58	2.54	61.			35.0	120.5							
453	6.60	34.335	0.33	2.68	72.			37.4	109.4							
528	6.34	34.345	0.33	2.71	76.			38.2	105.4							

Z	LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
	T	S	O2	P04	SI03	NO2	NO3	DT						Z	T	S
1	16.16	33.457	6.09	0.40	3.			0.0	339.8	0	16.16	33.457	6.09	24.547	339.8	0.000
10	15.99	33.455	6.04	0.36	3.			0.0	336.3	10	15.99	33.455	6.04	24.584	336.3	0.034
29	12.78	33.417	5.42	0.72	6.			4.7	274.6	20	14.51	33.438	5.71	24.895	306.7	0.066
38	11.45	33.489	4.50	1.08	12.			10.7	245.3	30	12.60	33.422	5.32	25.272	270.8	0.095
48	11.25	33.579	3.99	1.31	14.			14.0	235.2	50	11.17	33.598	3.93	25.675	232.5	0.145
62	10.71	33.700	3.72	1.46	18.			17.1	217.1	75	10.56	33.778	3.50	25.924	208.8	0.201
76	10.55	33.783	3.48	1.52	20.			17.7	208.3	100	10.26	33.890	3.18	26.063	195.6	0.252
94	10.31	33.876	3.22	1.70	23.			20.3	197.5	125	9.86	33.974	2.90	26.195	183.0	0.300
118	10.04	33.934	3.03	1.68	25.			20.2	188.8	150	9.44	34.102	2.38	26.366	166.8	0.344
136	9.58	34.039	2.68	1.89	29.			23.6	173.7	200	8.38	34.114	2.25	26.543	150.0	0.425
164	9.30	34.139	2.17	2.08	35.			25.1	162.0	250	7.56	34.107	1.99	26.659	139.0	0.499
192	8.54	34.117	2.27	2.16	39.			28.1	152.2	300	7.60	34.253	1.08	26.766	128.8	0.569
220	8.03	34.110	2.14	2.24	43.			29.2	145.4	400	6.97	34.338	0.46	26.923	113.9	0.696
258	7.47	34.106	1.92	2.34	49.			31.3	137.9	500	6.19	34.348	0.36	27.035	103.3	0.811
314	7.65	34.304	0.78	2.63	58.			32.6	125.6							
384	7.12	34.336	0.50	2.77	66.			36.1	116.1							
454	6.48	34.341	0.38	2.88	75.			37.8	107.5							
528	6.06	34.352	0.34	2.87	81.			39.5	101.4							

Z	LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
	T	S	O2	P04	SI03	NO2	NO3	DT						Z	T	S
1	17.39	33.284	5.59	0.35	4.			0.1	379.7	0	17.39	33.284	5.59	24.128	379.7	0.000
10	17.26	33.278	5.64	0.29	4.			0.1	377.2	10	17.26	33.278	5.64	24.155	377.2	0.038
30	16.70	33.237	5.76	0.35	4.			0.1	367.7	20	17.07	33.260	5.68	24.184	374.4	0.075
39	16.08	33.223	5.92	0.35	3.			0.1	355.2	30	16.70	33.237	5.76	24.254	367.7	0.113
48	15.64	33.207	5.98	0.32	4.			0.1	346.9	50	15.51	33.208	6.00	24.502	344.1	0.184
62	14.58	33.213	6.05	0.38	4.			0.1	324.5	75	13.45	33.194	5.90	24.926	303.7	0.265
76	13.35	33.191	5.88	0.46	5.			0.7	301.9	100	10.65	33.187	5.35	25.449	254.0	0.336
94	11.00	33.144	5.50	0.60	9.			4.0	263.0	125	10.01	33.459	4.71	25.769	223.5	0.396
118	10.16	33.376	4.87	0.97	14.			12.2	232.0	150	9.60	33.713	4.11	26.035	198.3	0.449
137	9.81	33.597	4.43	1.06	17.			13.5	210.1	200	8.60	33.963	3.24	26.391	164.4	0.542
165	9.35	33.815	3.76	1.37	24.			20.2	186.7	250	7.92	34.071	2.45	26.577	146.8	0.621
193	8.73	33.941	3.31	1.62	30.			23.6	168.0	300	7.66	34.158	1.61	26.684	136.7	0.695
221	8.25	34.016	3.03	1.71	36.			23.8	155.5	400	6.97	34.286	0.62	26.881	117.9	0.827
258	7.86	34.084	2.28	2.01	44.			27.7	144.9	500	6.27	34.342	0.31	27.020	104.8	0.945
314	7.61	34.180	1.43	2.19	52.			30.3	134.3							
384	7.11	34.272	0.72	2.46	62.			34.4	120.7							
454	6.54	34.320	0.41	2.65	72.			37.5	109.8							
529	6.14	34.351	0.29	2.76	78.			39.0	102.5							

Z	LATITUDE			LONGITUDE			MO/DAY/YR	MESSENGER	TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
	T	S	02	P04	S103	N02	N03	DT	Z	T	S	02	SIGT	DT	DD	
1	18.95	33.438	5.47	0.25	3.		0.1	405.0	0	18.95	33.438	5.47	23.863	405.0	0.000	
10	18.56	33.429	5.52	0.22	3.		0.1	396.3	10	18.56	33.429	5.52	23.954	396.3	0.040	
29	18.51	33.429	5.52	0.21	3.		0.1	395.1	20	18.54	33.429	5.52	23.959	395.9	0.080	
38	18.43	33.422	5.59	0.20	3.		0.1	393.8	30	18.52	33.428	5.53	23.963	395.5	0.119	
47	17.71	33.327	5.70	0.20	3.		0.1	383.9	50	17.62	33.345	5.70	24.120	380.5	0.197	
61	17.41	33.433	5.72	0.22	3.		0.1	369.3	75	16.77	33.351	5.78	24.325	360.9	0.290	
75	16.77	33.351	5.78	0.23	3.		0.1	360.9	100	13.97	33.360	5.73	24.949	301.6	0.374	
93	14.58	33.335	5.83	0.42	6.		3.4	315.6	125	12.42	33.508	4.90	25.371	261.3	0.445	
116	12.90	33.448	5.29	0.48	6.		4.3	274.5	150	11.65	33.716	3.84	25.678	232.1	0.507	
135	12.00	33.580	4.44	0.79	11.		10.4	248.3	200	9.94	33.958	3.21	26.169	185.5	0.614	
163	11.39	33.821	3.46	1.16	17.		16.8	219.8	250	8.88	34.124	2.42	26.473	156.7	0.701	
191	10.26	33.914	3.34	1.37	22.		19.7	193.9	300	8.26	34.197	1.70	26.625	142.2	0.779	
219	9.38	34.046	2.87	1.58	29.		23.7	170.1	400	7.25	34.271	0.77	26.831	122.7	0.917	
257	8.80	34.134	2.32	1.89	37.		26.9	154.7	500	6.41	34.302	0.45	26.971	109.5	1.040	
314	8.11	34.212	1.52	2.16	48.		30.8	138.9								
384	7.42	34.268	0.85	2.47	58.		34.8	125.2								
454	6.72	34.277	0.60	2.66	68.		37.4	115.3								
530	6.27	34.326	0.36	2.73	76.		38.8	106.0								

Z	LATITUDE			LONGITUDE			MO/DAY/YR	MESSENGER	TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
	T	S	02	P04	S103	N02	N03	DT	Z	T	S	02	SIGT	DT	DD	
2	18.34	33.278	5.58	0.35	4.		0.0	402.1	0	18.34	33.278	5.58	23.893	402.1	0.000	
11	18.10	33.275	5.59	0.32	3.		0.0	396.7	10	18.12	33.276	5.59	23.945	397.2	0.040	
29	17.86	33.253	5.64	0.30	3.		0.0	392.8	20	17.95	33.264	5.61	23.977	394.1	0.080	
38	17.78	33.251	5.73	0.29	3.		0.0	391.1	30	17.85	33.252	5.65	23.993	392.6	0.119	
47	17.68	33.279	5.65	0.29	3.		0.0	386.7	50	17.63	33.309	5.66	24.089	383.4	0.197	
61	17.14	33.405	5.76	0.29	3.		0.0	365.3	75	15.48	33.388	5.81	24.646	330.3	0.287	
75	15.48	33.388	5.81	0.34	3.		0.0	330.3	100	13.07	33.454	5.09	25.203	277.4	0.363	
92	13.63	33.421	5.34	0.50	5.		1.9	290.5	125	11.89	33.578	4.44	25.526	246.6	0.429	
116	12.28	33.531	4.62	0.73	9.		8.4	257.0	150	11.18	33.730	3.92	25.775	223.0	0.489	
135	11.54	33.633	4.26	0.97	13.		12.5	236.2	200	9.97	34.001	2.98	26.198	182.7	0.592	
162	10.95	33.807	3.64	1.21	17.		16.2	213.3	250	8.93	34.090	2.71	26.438	160.0	0.680	
190	10.26	33.970	3.05	1.51	24.		21.0	189.7	300	8.43	34.175	1.90	26.583	146.2	0.759	
216	9.52	34.034	2.92	1.66	28.		23.2	173.2	400	7.61	34.261	0.91	26.773	128.2	0.902	
254	8.88	34.095	2.67	1.90	35.		25.8	158.8	500	6.58	34.307	0.45	26.952	111.2	1.029	
310	8.36	34.191	1.72	2.13	44.		29.7	144.1								
379	7.88	34.259	1.04	2.40	53.		32.9	132.2								
448	6.98	34.266	0.69	2.58	64.		36.2	119.4								
523	6.48	34.334	0.35	2.73	74.		38.8	108.0								

Z	LATITUDE			LONGITUDE			MO/DAY/YR	MESSENGER	TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
	T	S	02	P04	S103	N02	N03	DT	Z	T	S	02	SIGT	DT	DD	
1	18.59	33.446	5.53	0.53	3.		0.0	395.8	0	18.59	33.446	5.53	23.959	395.8	0.000	
10	18.56	33.446	5.54	0.46	3.		0.0	395.1	10	18.56	33.446	5.54	23.967	395.1	0.040	
29	18.61	33.488	5.53	0.44	2.		0.0	393.2	20	18.58	33.468	5.53	23.977	394.1	0.079	
38	18.59	33.532	5.67	0.39	2.		0.0	389.6	30	18.61	33.491	5.55	23.989	393.0	0.119	
47	18.20	33.509	5.59	0.36	2.		0.0	382.0	50	18.03	33.496	5.62	24.136	379.0	0.196	
61	17.09	33.437	5.78	0.39	2.		0.0	361.8	75	15.08	33.393	5.77	24.738	321.6	0.284	
75	15.08	33.393	5.77	0.42	3.		0.0	321.6	100	12.82	33.498	4.86	25.286	269.5	0.358	
94	13.22	33.469	5.03	0.64	6.		3.5	279.0	125	11.67	33.633	4.25	25.610	238.7	0.423	
117	11.99	33.584	4.46	0.95	11.		10.5	247.8	150	10.82	33.734	3.99	25.843	216.5	0.480	
136	11.29	33.693	4.02	1.14	15.		12.9	227.5	200	9.48	33.994	3.42	26.275	175.5	0.580	
163	10.40	33.769	3.96	1.30	18.		16.5	206.9	250	9.09	34.175	2.08	26.479	156.1	0.665	
191	9.52	33.932	3.76	1.46	24.		19.9	180.7	300	8.43	34.220	1.56	26.617	143.0	0.743	
219	9.39	34.089	2.64	1.74	31.		23.6	167.1	400	7.38	34.258	0.92	26.802	125.4	0.883	
256	9.02	34.184	2.02	2.07	39.		26.9	154.4	500	6.60	34.315	0.46	26.954	111.0	1.008	
312	8.27	34.222	1.47	2.23	47.		29.2	140.5								
382	7.55	34.246	1.04	2.43	56.		33.3	128.6								
452	6.95	34.293	0.61	2.64	66.		36.4	117.0								
526	6.44	34.322	0.43	2.76	74.		38.5	108.4								

RV DAVID STARR JORDAN

CALCOFI CRUISE 7805

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Z	LATITUDE			LONGITUDE			MO/DAY/YR	MESSENGER TIME		BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
	T	S	O2	P04	SI03	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD	
1	17.29	33.254	5.65	0.37	3.		0.1	379.6	0	17.29	33.254	5.65	24.129	379.6	0.000	
10	17.14	33.243	5.68	0.40	3.		0.1	377.1	10	17.14	33.243	5.68	24.156	377.1	0.038	
38	16.74	33.202	5.74	0.42	3.		0.1	371.1	20	17.00	33.229	5.69	24.178	374.9	0.075	
62	15.00	33.126	5.99	0.42	3.		0.1	339.5	30	16.85	33.214	5.71	24.201	372.8	0.113	
80	13.16	33.114	6.02	0.49	4.		0.1	304.0	50	16.00	33.162	5.87	24.357	357.9	0.186	
94	11.69	33.186	5.57	0.66	7.		4.9	271.8	75	13.70	33.109	6.01	24.811	314.7	0.271	
108	10.57	33.254	5.24	0.85	10.		9.2	247.7	100	11.45	33.208	5.42	25.376	260.9	0.343	
127	10.12	33.544	4.81	1.00	14.		12.6	218.9	125	10.13	33.512	4.86	25.790	221.6	0.404	
146	9.88	33.706	4.29	1.16	18.		15.9	203.1	150	9.86	33.748	4.13	26.020	199.7	0.457	
169	9.67	33.914	3.53	1.39	23.		20.3	184.4	200	8.79	33.962	3.71	26.361	167.3	0.551	
192	8.92	33.955	3.74	1.70	28.		21.4	169.8	250	8.28	34.061	2.65	26.516	152.6	0.633	
216	8.61	33.977	3.53	1.80	30.		23.5	163.6	300	7.81	34.197	1.39	26.692	135.8	0.707	
244	8.33	34.037	2.87	1.88	36.		26.4	155.1	400	7.12	34.285	0.66	26.860	119.9	0.841	
276	8.08	34.162	1.76	2.10	45.		30.4	142.2	500	6.35	34.327	0.38	26.998	106.9	0.961	
323	7.56	34.211	1.21	2.32	54.		33.0	131.3								
384	7.24	34.279	0.73	2.49	61.		35.3	121.9								
454	6.69	34.299	0.51	2.65	69.		37.1	113.2								
529	6.15	34.351	0.30	2.79	79.		39.4	102.6								

RV DAVID STARR JORDAN

CALCOFI CRUISE 7805

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Z	LATITUDE			LONGITUDE			MO/DAY/YR	MESSENGER TIME		BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
	T	S	O2	P04	SI03	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD	
1	18.07	33.295	5.63	0.46	3.		0.0	394.5	0	18.07	33.295	5.63	23.973	394.5	0.000	
10	18.05	33.295	5.64	0.45	3.		0.0	394.1	10	18.05	33.295	5.64	23.977	394.1	0.039	
29	17.93	33.290	5.64	0.43	3.		0.0	391.7	20	17.98	33.293	5.64	23.993	392.7	0.079	
38	17.90	33.296	5.65	0.42	3.		0.0	390.6	30	17.93	33.290	5.64	24.003	391.7	0.118	
47	17.68	33.430	5.70	0.40	3.		0.0	375.7	50	17.64	33.428	5.71	24.178	375.0	0.195	
61	17.30	33.405	5.73	0.42	3.		0.0	368.9	75	16.09	33.294	5.85	24.438	350.2	0.286	
75	16.09	33.294	5.85	0.43	3.		0.1	350.2	100	13.26	33.292	5.70	25.041	292.8	0.367	
94	13.69	33.276	5.86	0.50	3.		0.1	302.3	125	12.03	33.451	4.75	25.402	258.4	0.437	
117	12.42	33.380	5.06	0.71	7.		5.0	270.7	150	11.35	33.763	3.55	25.770	223.4	0.498	
135	11.62	33.556	4.33	1.04	11.		11.3	243.3	200	10.30	34.079	2.50	26.202	182.4	0.601	
164	11.18	33.934	2.93	1.48	20.		18.1	207.8	250	9.75	34.237	1.83	26.419	161.8	0.689	
192	10.41	34.035	2.66	1.78	24.		22.3	187.4	300	9.03	34.269	1.51	26.562	148.2	0.770	
219	10.12	34.177	2.12	2.02	29.		24.5	172.2	400	7.84	34.337	0.65	26.799	125.7	0.913	
257	9.66	34.242	1.79	2.26	34.		26.5	160.0	500	6.81	34.335	0.39	26.943	112.1	1.039	
313	8.84	34.274	1.43	2.44	40.		28.3	145.0								
383	8.06	34.335	0.74	2.71	50.		32.4	129.1								
452	7.20	34.334	0.49	2.88	60.		35.0	117.3								
527	6.66	34.334	0.37	2.97	68.		36.7	110.3								

RV DAVID STARR JORDAN

CALCOFI CRUISE 7805

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Z	LATITUDE			LONGITUDE			MO/DAY/YR	MESSENGER TIME		BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
	T	S	O2	P04	SI03	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD	
1	17.92	33.232	5.63	0.33	3.		0.0	395.7	0	17.92	33.232	5.63	23.961	395.7	0.000	
11	17.92	33.232	5.62	0.32	3.		0.0	395.7	10	17.92	33.232	5.62	23.961	395.7	0.040	
30	17.27	33.188	5.69	0.31	3.		0.0	384.0	20	17.65	33.213	5.64	24.011	390.9	0.079	
39	17.03	33.177	5.73	0.31	3.		0.0	379.4	30	17.27	33.198	5.69	24.083	384.0	0.118	
48	16.92	33.174	5.79	0.29	3.		0.0	377.2	50	16.73	33.158	5.82	24.186	374.2	0.194	
83	15.45	33.125	5.94	0.31	3.		0.0	348.9	75	15.32	33.353	5.82	24.654	329.6	0.282	
77	15.30	33.396	5.79	0.31	3.		0.0	326.0	100	12.10	33.318	5.32	25.286	269.4	0.358	
95	12.22	33.244	5.47	0.52	6.		3.3	277.0	125	11.44	33.559	4.41	25.597	239.9	0.422	
119	11.65	33.498	4.64	0.90	11.		10.0	248.1	150	10.66	33.782	3.56	25.909	210.2	0.479	
137	11.01	33.675	3.95	1.21	16.		14.7	224.0	200	10.41	34.211	1.91	26.285	174.5	0.577	
165	10.40	33.901	3.12	1.53	24.		20.2	197.1	250	9.89	34.343	1.33	26.478	156.2	0.662	
192	10.46	34.156	2.13	1.90	29.		23.8	179.3	300	9.38	34.395	0.88	26.604	144.2	0.740	
220	10.23	34.307	1.52	2.15	35.		26.6	164.3	400	8.09	34.372	0.58	26.789	126.7	0.882	
256	9.82	34.343	1.32	2.32	39.		27.6	155.0	500	7.06	34.371	0.37	26.937	112.6	1.009	
311	9.26	34.404	0.78	2.52	45.		29.6	141.7								
380	8.28	34.371	0.63	2.69	54.		32.6	129.5								
451	7.62	34.378	0.47	2.82	61.		34.7	119.7								
527	6.71	34.364	0.32	2.91	72.		37.7	108.7								

Z	LATITUDE			LONGITUDE			MO/DAY/YR			MESSENGER TIME		BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
	T	S	02	P04	SI03	N02	N03	DT	Z	T	S	02	SIGT	DT	DD			
1	17.89	33.240	5.60	0.15	3.		0.0	394.4	0	17.89	33.240	5.60	23.974	394.4	0.000			
10	17.85	33.240	5.61	0.19	3.		0.0	393.5	10	17.85	33.240	5.61	23.984	393.5	0.039			
29	17.28	33.201	5.71	0.23	3.		0.0	383.3	20	17.56	33.213	5.65	24.034	388.7	0.079			
38	17.21	33.238	5.77	0.25	3.		0.0	379.0	30	17.27	33.205	5.72	24.096	382.8	0.117			
46	17.13	33.251	5.79	0.22	3.		0.0	376.2	50	16.96	33.236	5.80	24.193	373.5	0.193			
61	16.04	33.169	5.86	0.28	3.		0.0	358.2	75	13.97	33.129	6.04	24.771	318.5	0.280			
75	13.97	33.129	6.04	0.34	3.		0.0	318.5	100	11.92	33.200	5.58	25.228	275.0	0.355			
94	12.42	33.192	5.74	0.38	5.		1.1	284.5	125	10.59	33.455	4.64	25.666	233.3	0.419			
117	10.81	33.302	5.00	0.85	11.		10.6	248.2	150	10.28	33.841	3.48	26.021	199.6	0.474			
136	10.44	33.676	4.11	1.09	16.		14.4	214.4	200	9.60	34.106	2.38	26.341	169.1	0.568			
164	10.14	33.946	2.96	1.58	24.		21.5	189.5	250	9.60	34.340	1.25	26.524	151.8	0.650			
192	9.77	34.085	2.42	1.88	30.		24.5	173.3	300	8.71	34.296	1.22	26.634	141.4	0.726			
220	9.29	34.162	2.23	2.09	35.		25.7	160.1	400	7.66	34.337	0.57	26.825	123.3	0.865			
257	9.68	34.376	1.02	2.36	40.		28.8	150.4	500	6.65	34.357	0.32	26.982	108.4	0.988			
314	8.30	34.250	1.28	2.47	47.		30.5	138.8										
383	7.81	34.326	0.68	2.68	56.		33.4	126.2										
452	7.15	34.357	0.33	2.87	66.		36.5	114.9										
525	6.37	34.350	0.31	2.96	76.		39.1	105.4										

	Z	T	S	02	P04	S103	N02	N03	DT
5 60.052	10	9.22	33.465	4.88	0.92	21.	0.10	17.6	210.7
05/14/78 2344GMT 37 52.5N 123 03.5W BOTTOM 88M WIND 190 10KT WEATHER 4 DOMINANT WAVES 260 5 5									
70.051	10	10.59	33.477	6.63	0.84	8.	0.10	4.8	231.6
05/19/78 2015GMT 36 11.3N 121 43.9W BOTTOM 125M WIND 330 5KT WEATHER 1 DOMINANT WAVES 290 1 6									
73.050	10	12.86	33.103	6.18	0.75	5.	0.12	4.1	299.1
05/20/78 0030GMT 35 37.0N 121 17.0W BOTTOM 103M WIND 290 10KT WEATHER 4 DOMINANT WAVES 280 1 6									
80.051	10	11.73	33.737	4.72	1.27	19.	0.28	14.6	231.9
05/22/78 0902GMT 34 26.0N 120 32.5W BOTTOM 99M WIND 330 18KT WEATHER DOMINANT WAVES									
6 83.040	10	13.79	33.634	5.92	1.08	11.	0.07	4.2	277.9
05/25/78 0857GMT 34 12.5N 119 24.2W BOTTOM 34M WIND 090 8KT WEATHER DOMINANT WAVES									
5 87.032	10	15.00	33.549	6.66	0.90	8.	0.02	0.1	308.5
05/25/78 1623GMT 33 53.5N 118 26.5W BOTTOM 22M WIND 210 3KT WEATHER 1 DOMINANT WAVES 270 1 5									
7 87.032	10	13.20	33.552	5.49	1.03	11.	0.12	6.0	272.6
05/25/78 1731GMT 33 54.5N 118 28.0W BOTTOM 32M WIND 260 9KT WEATHER 1 DOMINANT WAVES 220 1 4									
87.033	10	13.65	33.552	5.88	0.76	10.	0.10	3.2	281.2
05/25/78 1823GMT 33 53.9N 118 29.0W BOTTOM 50M WIND 240 9KT WEATHER 1 DOMINANT WAVES 230 2 5									
87.035	10	12.97	33.552	5.61	0.88	10.	0.19	6.5	268.2
05/25/78 2004GMT 33 50.0N 118 37.5W BOTTOM 480M WIND 200 9KT WEATHER 1 DOMINANT WAVES 220 1 5									
87.055	10	12.90	33.485	6.09	0.91	9.		7.7	271.8
05/28/78 2133GMT 33 10.0N 120 00.0W BOTTOM 1260M WIND 320 22KT WEATHER 0 DOMINANT WAVES 320 4 6									
6 90.027	10	15.50	33.419	6.23	0.45	4.		0.0	328.5
05/27/78 1245GMT 33 29.3N 117 45.5W BOTTOM 48M WIND 0KT WEATHER 0 DOMINANT WAVES 290 1 5									
90.028	10	18.16	33.464	5.78	0.40	3.		0.1	384.4
05/27/78 1136GMT 33 28.5N 117 46.7W BOTTOM 355M WIND 010 4KT WEATHER DOMINANT WAVES									
90.029	10	14.40	33.393	6.32	0.56	7.		0.4	307.7
05/27/78 1005GMT 33 27.0N 117 49.5W BOTTOM 630M WIND 320 3KT WEATHER DOMINANT WAVES									
90.030	10	16.62	33.477	6.38	0.42	4.		0.1	348.4
05/27/78 0757GMT 33 25.0N 117 53.5W BOTTOM 630M WIND 320 5KT WEATHER DOMINANT WAVES									
90.031	10	14.70	33.484	6.68	0.50	5.		0.1	307.1
05/27/78 0634GMT 33 23.0N 117 57.7W BOTTOM 340M WIND 300 6KT WEATHER DOMINANT WAVES									
7 93.026	10	12.88	33.593	4.47	0.86	15.		6.6	263.5
05/27/78 1735GMT 32 57.2N 117 17.4W BOTTOM 45M WIND 270 4KT WEATHER 0 DOMINANT WAVES 270 1 5									
9 93.026	10	11.49	33.608	4.09	1.25	16.		13.1	237.2
05/27/78 1821GMT 32 56.8N 117 18.3W BOTTOM 99M WIND 270 5KT WEATHER 0 DOMINANT WAVES 270 1 5									
93.028	10	17.92	33.420	5.86	0.32	5.		0.3	382.0
05/27/78 1929GMT 32 54.7N 117 21.8W BOTTOM 575M WIND 270 9KT WEATHER 0 DOMINANT WAVES 270 2 5									
93.035	10	17.06	33.377	5.90	0.34	5.		0.0	365.5
05/28/78 0103GMT 32 40.5N 117 51.5W BOTTOM 650M WIND 280 11KT WEATHER 0 DOMINANT WAVES 280 3 5									
93.045	10	16.44	33.445	5.90	0.38	6.		0.0	346.8
05/28/78 0655GMT 32 20.0N 118 32.0W BOTTOM 1295M WIND 280 9KT WEATHER DOMINANT WAVES									
93.055	10	15.24	33.190	6.02	0.33	4.	0.03	0.1	339.8
05/30/78 2355GMT 32 00.0N 119 13.5W BOTTOM 1485M WIND 270 15KT WEATHER 2 DOMINANT WAVES 280 4 5									
97.032	10	18.77	33.426	5.82	0.57	5.		0.1	401.6
06/02/78 1230GMT 32 12.0N 117 15.2W BOTTOM 1385M WIND 360 5KT WEATHER 2 DOMINANT WAVES 0									
97.045	10	15.84	33.450	6.01	0.72	8.		1.5	333.4
06/02/78 0306GMT 31 46.0N 118 08.5W BOTTOM 1385M WIND 320 8KT WEATHER DOMINANT WAVES									
97.055	10	17.05	33.262	5.71	0.38	4.	0.00	0.2	373.7
06/01/78 2108GMT 31 25.5N 118 49.5W BOTTOM 1160M WIND 260 10KT WEATHER 2 DOMINANT WAVES 260 1 6									

	Z	T	S	02	P04	S103	N02	N03	DT
100.029 06/03/78 2211GMT 31 42.2N 116 43.4W BOTTOM 105M WIND 300 15KT WEATHER 0 DOMINANT WAVES 300 1 2	10	12.45	33.689	5.00	0.78	16.		8.4	248.5
103.045 06/06/78 1343GMT 30 36.0N 117 24.0W BOTTOM 2180M WIND 290 6KT WEATHER 2 DOMINANT WAVES 300 1 5	10	17.13	33.427	5.83	0.30	4.		0.1	363.4
110.032 06/09/78 1658GMT 29 51.2N 115 49.7W BOTTOM 48M WIND 140 18KT WEATHER 2 DOMINANT WAVES 310 3 5	10	13.24	33.552	6.24	0.64	7.		1.1	273.3
110.045 06/09/78 0805GMT 29 26.5N 116 39.5W BOTTOM 1115M WIND 330 12KT WEATHER DOMINANT WAVES	10	17.32	33.324	5.75	0.35	4.		0.1	375.2

	DEPTH	CHL A	PHAEO
STATION 60055	0	3.26	1.31
05/15/78	9	4.45	2.08
0148 GMT	30	2.57	1.94
	38	0.66	0.66
37 47.0N	54	0.41	0.41
123 15.0W	69	0.27	0.26
	83	0.27	0.51
	99	0.13	0.25
	118	0.11	0.30

	DEPTH	CHL A	PHAEO
STATION 60060	1	0.39	0.14
05/15/78	10	0.40	0.13
0522 GMT	29	1.45	0.54
	38	2.87	1.46
37 37.0N	47	2.08	1.48
123 37.0W	61	1.41	0.93
	75	0.85	0.46
	93	0.59	0.41
	116	0.05	0.13
	135	0.09	0.18
	163	0.05	0.18
	191	0.05	0.10

	DEPTH	CHL A	PHAEO
STATION 60070	3	0.24	C.11
05/15/78	12	0.28	C.09
1142 GMT	30	0.49	C.16
	39	0.69	C.29
37 17.0N	48	0.82	C.43
124 22.0W	62	0.92	C.53
	75	1.15	C.60
	98	1.15	C.52
	115	1.58	1.03
	132	1.45	0.58
	158	0.95	C.64
	183	0.38	C.54

	DEPTH	CHL A	PHAEO
STATION 60080	1	0.18	0.04
05/15/78	10	0.22	0.00
1704 GMT	29	0.20	0.09
	38	0.35	0.14
36 56.5N	52	0.76	0.52
125 04.0W	66	1.25	0.68
	90	1.38	1.05
	108	1.45	1.01
	127	0.92	0.61
	146	0.79	0.74
	173	0.49	0.41
	205	0.08	0.12

	DEPTH	CHL A	PHAEO
STATION 60090	2	0.08	0.04
05/15/78	11	0.04	0.02
2303 GMT	30	0.05	0.02
	39	0.10	0.07
36 37.0N	54	0.10	0.05
125 47.0W	68	0.16	0.11
	92	0.10	0.19
	110	0.02	0.08
	129	0.00	0.04
	147	0.01	0.02
	175	0.01	0.03
	207	0.00	0.02

	DEPTH	CHL A	PHAEO
STATION 63052	0	15.04	4.91
05/17/78	9	14.64	4.59
0803 GMT	19	6.33	1.80
	28	4.85	2.04
37 19.0N	46	1.25	C.85
122 36.0W	70	0.85	C.83

	DEPTH	CHL A	PHAEO
STATION 63055	1	4.45	0.77
05/17/78	10	4.35	0.87
0335 GMT	29	1.38	0.54
	43	1.08	0.64
37 13.0N	52	1.51	0.73
122 50.0W	66	1.78	0.77
	81	2.28	1.11
	100	2.57	0.99
	123	1.81	0.77
	142	0.76	0.75
	176	0.66	0.81
	205	0.69	0.60

	DEPTH	CHL A	PHAEO
STATION 63060	1	0.40	0.09
05/16/78	11	1.58	0.41
2300 GMT	29	1.88	1.50
	39	1.14	1.32
37 03.0N	53	2.28	0.99
123 12.0W	67	1.78	1.01
	90	1.38	1.04
	109	1.68	1.29
	127	1.51	0.95
	147	1.45	0.97
	174	0.76	0.66
	207	0.49	0.58

	DEPTH	CHL A	PHAEO
STATION 63070	1	0.62	C.15
05/16/78	10	0.66	C.17
1654 GMT	29	0.72	C.25
	39	1.35	C.66
36 42.5N	53	1.58	1.02
123 55.0W	67	1.22	C.77
	90	0.59	C.52
	108	0.59	0.26
	127	0.19	C.27
	145	0.18	C.20
	173	0.07	C.09
	206	0.06	C.08

	DEPTH	CHL A	PHAEO
STATION 63080	2	0.09	0.08
05/16/78	11	0.11	0.05
1051 GMT	30	0.09	0.05
	40	0.14	0.03
36 23.0N	54	0.14	0.07
124 38.5W	68	0.36	0.14
	91	0.28	0.21
	109	0.07	0.09
	128	0.05	0.09
	146	0.02	0.09
	174	0.03	0.05
	206	0.02	0.07

	DEPTH	CHL A	PHAEO
STATION 63090	2	0.01	0.13
05/16/78	11	0.06	0.04
0513 GMT	30	0.05	0.10
	39	0.07	0.09
36 03.0N	53	0.13	0.07
125 20.0W	67	0.27	0.12
	90	0.32	0.23
	109	0.15	0.11
	128	0.01	0.11
	146	0.00	0.04
	174	0.00	0.03
	206	0.00	0.03

	DEPTH	CHL A	PHAEO
STATION 67050	1	12.27	2.45
05/17/78	10	10.69	3.32
1604 GMT	29	4.15	C.95
	43	1.74	C.75
36 48.0N	57	1.48	C.95
122 05.0W	72	0.72	C.55
	86	0.56	0.87
	105	0.56	C.56
	129	0.53	C.55
	158	0.56	C.62
	191	0.39	C.78
	224	0.33	1.04

	DEPTH	CHL A	PHAEO
STATION 67055	1	7.72	2.14
05/17/78	12	10.29	2.29
1912 GMT	30	10.29	3.01
	40	9.50	3.21
36 39.0N	50	2.28	1.70
122 26.0W	64	2.97	2.08
	78	3.17	1.82
	96	1.58	1.27
	121	1.12	0.21
	139	0.43	0.63
	166	0.69	0.45
	194	0.40	0.49

	DEPTH	CHL A	PHAEO
STATION 67060	2	0.21	0.04
05/17/78	11	0.28	0.05
2336 GMT	30	0.51	0.44
	40	0.82	0.73
36 28.0N	49	0.44	0.44
122 47.5W	64	0.30	0.39
	78	0.18	0.25
	97	0.09	0.23
	120	0.07	0.19
	139	0.05	0.22
	167	0.04	0.10
	195	0.05	0.19

	DEPTH	CHL A	PHAEO
STATION 67070	2	0.16	C.06
05/18/78	11	0.16	C.05
0522 GMT	30	0.13	C.04
	40	0.22	C.05
36 08.0N	49	0.21	C.09
123 29.5W	64	0.34	C.19
	77	0.41	C.57
	96	0.30	C.31
	120	0.09	C.08
	139	0.02	C.08
	167	0.02	C.10
	196	0.01	C.05

	DEPTH	CHL A	PHAEO
STATION 67080	1	0.07	0.10
05/18/78	9	0.10	0.05
1049 GMT	34	0.09	0.04
	43	0.09	0.05
35 48.0N	57	0.20	0.08
124 12.0W	71	0.29	0.30
	95	0.11	0.11
	113	0.04	0.05
	132	0.01	0.04
	160	0.01	0.00
	187	0.01	0.02
	225	0.00	0.02

	DEPTH	CHL A	PHAEO
STATION 67090	1	0.06	0.09
05/18/78	11	0.10	0.03
1604 GMT	29	0.10	0.02
	39	0.10	0.02
35 28.0N	53	0.10	0.03
124 55.0W	67	0.19	0.07
	90	0.28	0.19
	109	0.12	0.12
	128	0.03	0.03
	146	0.00	0.02
	174	0.00	0.02
	207	0.01	0.02

	DEPTH	CHL A	PHAEO
STATION 70053	1	0.69	C.13
05/19/78	10	0.82	C.20
1816 GMT	29	1.68	C.93
	39	2.18	1.44
36 06.5N	48	1.58	1.15
121 54.0W	62	0.69	C.66
	76	0.32	C.32
	95	0.22	0.38
	118	0.16	C.31
	137	0.13	C.31
	166	0.11	C.20
	192	0.09	C.14

	DEPTH	CHL A	PHAEO
STATION 70060	1	1.12	0.49
05/19/78	11	0.99	0.54
1329 GMT	30	0.82	0.87
	38	1.02	1.16
35 53.0N	53	1.48	1.13
122 22.6W	67	1.38	1.23
	91	0.56	0.60
	110	0.49	0.52
	127	0.32	0.57
	147	0.34	0.45
	175	0.32	0.45
	208	0.22	0.25

	DEPTH	CHL A	PHAEO
STATION 70070	1	0.08	0.04
05/19/78	10	0.09	0.03
0830 GMT	28	0.10	0.03
	37	0.11	0.03
35 33.0N	51	0.11	0.04
123 06.0W	64	0.14	0.06
	87	0.47	0.27
	105	0.09	0.11
	123	0.05	0.04
	141	0.01	0.03
	169	0.00	0.03
	201	0.01	0.02

	DEPTH	CHL A	PHAEO
STATION 70080	2	0.07	C.02
05/19/78	12	0.07	C.02
0317 GMT	31	0.07	C.01
	40	0.09	C.01
35 15.7N	54	0.09	C.01
123 46.0W	68	0.09	C.02

RV DAVID STARR JORDAN				CHLOROPHYLL-A AND PHAEOPHYTIN				CALCOFI CRUISE 7805			
	DEPTH	CHL A	PHAEO		DEPTH	CHL A	PHAEO		DEPTH	CHL A	PHAEO
STATION 70090	1	0.06	0.02	STATION 73053	2	0.20	0.07	STATION 73060	2	0.06	C.06
05/18/78	11	0.05	0.02	05/20/78	11	0.21	0.07	05/20/78	11	0.06	C.04
2130 GMT	29	0.07	0.02	0236 GMT	30	0.11	0.08	0621 GMT	40	0.09	C.04
	57	0.08	0.01		40	0.23	0.18		63	0.16	C.10
34 53.9N	66	0.08	0.03	35 31.7N	49	0.17	0.45	35 17.5N	82	0.35	C.24
124 30.8W	80	0.13	0.04	121 28.3W	63	0.08	0.33	121 58.0W	96	0.26	C.20
	94	0.41	0.18		77	0.11	0.28		110	0.12	C.10
	108	0.38	0.20		96	0.09	0.24		129	0.05	C.04
	132	0.11	0.13		119	0.13	0.25		147	0.00	C.04
	150	0.05	0.08		138	0.12	0.38		171	0.01	C.02
	178	0.01	0.03		165	0.12	0.29		194	0.01	C.08
	206	0.01	0.03		192	0.09	0.16		217	0.01	C.04
STATION 73070	1	0.09	0.04	STATION 73080	1	0.08	0.01	STATION 73090	0	0.04	C.02
05/20/78	10	0.10	0.03	05/20/78	11	0.09	0.01	05/20/78	9	0.05	C.01
1205 GMT	30	0.12	0.06	1706 GMT	29	0.09	0.01	2256 GMT	27	0.05	C.01
	39	0.15	0.06		39	0.09	0.02		37	0.06	C.02
34 58.0N	53	0.33	0.20	34 38.0N	53	0.11	0.03	34 18.5N	46	0.08	C.02
122 40.0W	68	0.51	0.24	123 22.0W	67	0.13	0.04	124 04.0W	60	0.07	C.02
	91	0.19	0.18		92	0.29	0.19		74	0.13	C.05
	109	0.17	0.21		109	0.29	0.20		92	0.27	C.10
	129	0.13	0.26		128	0.11	0.14		116	0.27	C.12
	147	0.08	0.23		147	0.05	0.04		134	0.07	C.08
	175	0.03	0.08		175	0.00	0.03		162	0.01	C.04
	207	0.01	0.05		208	0.00	0.05		190	0.01	C.05
STATION 77051	1	1.35	1.29	STATION 77055	1	0.10	0.04	STATION 77060	0	0.09	C.04
05/22/78	11	2.37	2.08	05/22/78	11	0.29	0.20	05/21/78	9	0.11	C.04
0408 GMT	29	3.26	1.66	0121 GMT	30	0.32	0.29	2104 GMT	28	0.18	C.06
	43	1.05	1.33		44	0.38	0.31		38	0.47	C.21
35 02.0N	55	1.29	2.16	34 54.5N	54	0.13	0.16	34 44.0N	48	0.38	C.19
120 56.5W	69	0.18	0.50	121 13.0W	68	0.19	0.35	121 34.0W	62	0.47	C.22
	81	0.15	0.42		82	0.09	0.22		76	0.33	C.22
	101	0.56	0.44		96	0.13	0.35		95	0.10	0.17
	124	0.46	0.23		119	0.07	0.19		118	0.08	0.19
	142	0.21	0.47		138	0.05	0.19		136	0.10	C.29
	174	0.24	0.37		166	0.03	0.13		164	0.10	C.32
	204	0.16	0.32		193	0.01	0.09		192	0.04	C.24
STATION 77070	0	0.30	0.14	STATION 77080	1	0.07	0.05	STATION 77090	1	0.07	C.02
05/22/78	11	0.41	0.20	05/21/78	11	0.07	0.04	05/21/78	10	0.06	C.02
1528 GMT	30	0.58	0.35	0908 GMT	30	0.08	0.02	0354 GMT	39	0.09	C.02
	39	0.56	0.58		39	0.09	0.04		62	0.13	C.03
34 24.4N	53	0.32	0.35	34 04.0N	53	0.11	0.04	33 43.0N	81	0.17	C.06
122 16.4W	67	0.26	0.41	122 57.0W	67	0.16	0.16	123 39.0W	95	0.28	C.16
	91	0.33	0.42		95	0.30	0.15		109	0.27	C.16
	110	0.34	0.77		109	0.24	0.16		126	0.21	0.14
	128	0.26	0.72		127	0.09	0.09		146	0.07	C.08
	147	0.18	0.52		146	0.05	0.11		169	0.01	C.03
	174	0.12	0.50		176	0.00	0.04		192	0.00	C.03
	206	0.11	0.41		205	0.00	0.03		215	0.01	C.02
STATION 80055	1	3.26	1.96	STATION 80060	1	0.19	0.27	STATION 80070	2	0.30	C.12
05/22/78	10	2.77	1.56	05/22/78	11	0.19	0.29	05/22/78	11	0.27	C.13
1130 GMT	43	0.23	0.34	1503 GMT	30	0.24	0.47	2048 GMT	31	0.50	C.25
	71	0.13	0.31		39	0.21	0.48		40	0.60	C.28
34 19.0N	89	0.10	0.27	34 09.0N	53	0.22	0.47	33 48.5N	54	0.28	C.25
120 48.0W	103	0.05	0.26	121 09.0W	69	0.16	0.88	121 51.0W	68	0.10	C.27
	116	0.05	0.18		91	0.08	0.33		92	0.11	C.18
	135	0.05	0.20		110	0.05	0.22		110	0.05	C.14
	153	0.03	0.20		130	0.03	0.22		129	0.06	C.21
	181	0.04	0.14		149	0.11	0.29		148	0.07	0.16
	205	0.03	0.16		177	0.04	0.32		175	0.05	C.21
	229	0.04	0.11		208	0.05	0.27		207	0.05	C.21
STATION 80080	3	0.11	0.10	STATION 80090	2	0.09	0.09	STATION 83042	2	3.07	1.74
05/23/78	12	0.12	0.07	05/23/78	10	0.09	0.07	05/25/78	25	2.57	2.18
0154 GMT	30	0.14	0.07	0725 GMT	33	0.28	0.18	1035 GMT	48	0.09	C.20
	39	0.26	0.15		42	0.38	0.26		67	0.05	C.19
33 29.4N	49	0.38	0.26	33 09.0N	55	0.24	0.11	34 10.0N	81	0.04	0.13
122 31.0W	62	0.32	0.21	123 13.0W	71	0.27	0.18	119 29.5W	95	0.04	0.14
	76	0.14	0.06		93	0.21	0.19		109	0.03	C.15
	94	0.09	0.11		111	0.18	0.11		118	0.04	C.12
	117	0.05	0.14		130	0.08	0.13		137	0.05	0.11
	136	0.01	0.09		159	0.02	0.05		146	0.03	C.11
	163	0.02	0.10		187	0.01	0.03				
	191	0.01	0.11		224	0.01	0.03				
STATION 83060	2	0.19	0.39	STATION 83070	1	0.19	0.10	STATION 83080	2	0.29	C.21
05/24/78	11	0.24	0.21	05/24/78	11	0.20	0.09	05/23/78	11	0.30	C.22
0626 GMT	30	0.27	0.22	0114 GMT	30	0.20	0.10	1901 GMT	30	0.34	C.26
	39	0.24	0.21		39	0.19	0.11		39	0.38	C.20
33 34.0N	53	0.23	0.25	33 14.5N	55	0.18	0.09	32 54.0N	53	0.19	C.17
120 45.0W	89	0.03	0.08	121 26.0W	68	0.29	0.29	122 08.0W	68	0.18	0.11
	108	0.01	0.12		91	0.09	0.16		89	0.09	C.16
	126	0.01	0.14		110	0.07	0.10		109	0.04	C.09
	145	0.01	0.14		129	0.02	0.04		128	0.03	C.14
	171	0.01	0.09		147	0.01	0.03		146	0.02	C.10
	204	0.01	0.11		175	0.01	0.02		173	0.01	C.06
					208	0.01	0.02		207	0.01	C.04

	DEPTH	CHL A	PHAEO
STATION 83090	0	0.24	0.05
05/23/78	10	0.26	0.05
1347 GMT	33	0.24	0.06
	41	0.23	0.07
32 34.5N	54	0.50	0.19
122 50.0W	68	0.36	0.19
	91	0.19	0.18
	109	0.17	0.20
	127	0.15	0.10
	155	0.03	0.05
	183	0.01	0.02
	219	0.01	0.03

	DEPTH	CHL A	PHAEO
STATION 87050	1	0.82	0.25
05/26/78	10	0.82	0.25
0618 GMT	20	0.82	0.33
	29	0.69	0.37
33 20.0N	39	0.56	0.28
119 39.5W	57	0.28	0.19

	DEPTH	CHL A	PHAEO
STATION 87080	1	0.12	0.05
05/29/78	11	0.12	0.05
1320 GMT	29	0.12	0.05
	39	0.12	0.05
32 20.0N	53	0.24	0.12
121 43.0W	67	0.40	0.16
	90	0.19	0.09
	109	0.11	0.11
	127	0.09	0.11
	146	0.04	0.06
	174	0.01	0.03
	206	0.01	0.03

	DEPTH	CHL A	PHAEO
STATION 90037	1	0.18	0.06
05/27/78	10	0.26	0.10
0058 GMT	29	0.56	0.31
	38	0.40	0.24
33 11.0N	48	0.22	0.19
118 22.5W	61	0.15	0.08
	75	0.04	0.07
	94	0.03	0.06
	117	0.01	0.07
	136	0.02	0.03
	163	0.01	0.04
	191	0.02	0.07

	DEPTH	CHL A	PHAEO
STATION 90060	0	0.30	0.17
05/30/78	10	0.35	0.16
1856 GMT	29	0.40	0.19
	38	0.38	0.21
32 24.9N	52	0.36	0.21
119 57.5W	64	0.23	0.17
	90	0.21	0.16
	107	0.08	0.10
	126	0.03	0.07
	144	0.02	0.04
	172	0.02	0.03
	205	0.01	0.05

	DEPTH	CHL A	PHAEO
STATION 90090	1	0.05	0.02
05/30/78	10	0.05	0.02
0128 GMT	28	0.07	0.02
	37	0.07	0.02
31 24.0N	50	0.09	0.04
122 01.0W	63	0.11	0.07
	85	0.32	0.23
	103	0.17	0.14
	121	0.10	0.10
	139	0.05	0.05
	166	0.01	0.02
	197	0.00	0.02

	DEPTH	CHL A	PHAEO
STATION 93050	0	0.43	0.27
05/28/78	10	0.45	0.25
0949 GMT	30	0.47	0.32
	40	0.36	0.35
32 10.0N	53	0.19	0.18
118 52.5W	68	0.15	0.14
	92	0.05	0.10
	110	0.02	0.08
	130	0.01	0.05
	148	0.01	0.05
	176	0.00	0.06
	209	0.01	0.03

	DEPTH	CHL A	PHAEO
STATION 87040	1	0.16	0.07
05/25/78	11	0.39	0.17
2321 GMT	30	0.85	0.38
	40	0.63	0.22
33 40.0N	49	0.46	0.23
118 58.0W	64	0.15	0.15
	78	0.08	0.25
	97	0.03	0.16
	121	0.01	0.06
	139	0.01	0.05
	167	0.01	0.05
	195	0.01	0.05

	DEPTH	CHL A	PHAEO
STATION 87060	1	0.57	0.17
05/29/78	10	0.34	0.22
0130 GMT	29	0.76	0.36
	38	0.89	0.43
33 00.5N	52	0.28	0.23
120 21.0W	66	0.30	0.25
	89	0.10	0.12
	108	0.06	0.09
	126	0.04	0.10
	145	0.05	0.04
	172	0.01	0.08
	205	0.01	0.07

	DEPTH	CHL A	PHAEO
STATION 87090	0	0.08	0.01
05/29/78	10	0.08	0.01
1905 GMT	28	0.08	0.03
	57	0.09	0.02
31 59.0N	66	0.13	0.05
122 24.0W	80	0.14	0.06
	94	0.23	0.11
	108	0.21	0.07
	131	0.08	0.07
	150	0.02	0.07
	178	0.00	0.02
	206	0.01	0.01

	DEPTH	CHL A	PHAEO
STATION 90045	1	0.50	0.18
05/26/78	11	0.55	0.17
1933 GMT	29	0.26	0.14
	39	0.36	0.37
32 54.5N	48	0.26	0.17
118 55.5W	62	0.13	0.10
	76	0.03	0.06
	95	0.02	0.08
	118	0.02	0.05
	137	0.01	0.07
	165	0.01	0.04
	193	0.01	0.06

	DEPTH	CHL A	PHAEO
STATION 90070	1	0.07	0.04
05/30/78	10	0.08	0.02
1156 GMT	29	0.07	0.03
	38	0.08	0.03
32 04.5N	52	0.08	0.03
120 38.5W	66	0.30	0.25
	89	0.26	0.20
	108	0.22	0.14
	126	0.12	0.10
	145	0.05	0.08
	172	0.01	0.03
	205	0.01	0.02

	DEPTH	CHL A	PHAEO
STATION 93030	1	0.12	0.04
05/27/78	10	0.13	0.05
2128 GMT	29	0.47	0.21
	38	0.40	0.37
32 50.5N	48	0.33	0.18
117 31.0W	62	0.18	0.08
	75	0.08	0.13
	94	0.03	0.12
	118	0.01	0.09
	136	0.02	0.08
	164	0.01	0.06
	193	0.01	0.05

	DEPTH	CHL A	PHAEO
STATION 93060	1	0.09	0.04
05/31/78	11	0.09	0.03
0241 GMT	29	0.05	0.04
	39	0.09	0.04
31 50.0N	48	0.09	0.05
119 34.0W	62	0.18	0.13
	76	0.30	0.25
	94	0.27	0.23
	118	0.09	0.06
	136	0.05	0.03
	164	0.01	0.02
	192	0.00	0.02

	DEPTH	CHL A	PHAEO
STATION 87045	1	0.76	0.30
05/26/78	11	0.92	0.43
0308 GMT	29	0.29	0.17
	38	0.27	0.21
33 30.0N	48	0.04	0.15
119 19.0W	62	0.02	0.07
	77	0.01	0.08
	94	0.03	0.18
	118	0.01	0.09
	137	0.01	0.09
	166	0.01	0.08
	193	0.01	0.05

	DEPTH	CHL A	PHAEO
STATION 87070	3	0.14	0.08
05/29/78	12	0.16	0.06
0744 GMT	31	0.16	0.06
	40	0.16	0.08
32 39.5N	54	0.39	0.24
121 02.0W	68	0.45	0.27
	91	0.19	0.19
	109	0.15	0.13
	127	0.09	0.09
	146	0.03	0.07
	175	0.01	0.04
	207	0.01	0.04

	DEPTH	CHL A	PHAEO
STATION 90033	0	0.26	0.14
05/27/78	10	0.23	0.18
0412 GMT	29	0.51	0.30
	38	0.35	0.26
33 18.5N	48	0.22	0.17
118 07.0W	62	0.07	0.18
	77	0.06	0.46
	95	0.03	0.14
	120	0.03	0.10
	138	0.01	0.09
	167	0.00	0.05
	194	0.01	0.05

	DEPTH	CHL A	PHAEO
STATION 90053	1	0.34	0.18
05/28/78	12	0.72	0.20
1551 GMT	31	0.63	0.28
	40	0.49	0.21
32 39.0N	54	0.26	0.40
119 28.5W	67	0.16	0.24
	92	0.12	0.14
	110	0.03	0.10
	129	0.02	0.09
	147	0.01	0.10
	175	0.01	0.05
	207	0.01	0.03

	DEPTH	CHL A	PHAEO
STATION 90080	1	0.05	0.04
05/30/78	11	0.06	0.02
0602 GMT	30	0.06	0.06
	40	0.08	0.02
31 44.5N	54	0.09	0.03
121 19.5W	68	0.11	0.08
	92	0.32	0.12
	110	0.18	0.10
	128	0.08	0.06
	147	0.02	0.05
	175	0.01	0.02
	207	0.00	0.02

	DEPTH	CHL A	PHAEO
STATION 93040	2	0.18	0.14
05/28/78	11	0.18	0.10
0356 GMT	29	0.63	0.38
	39	0.51	0.29
32 30.0N	48	0.32	0.25
118 11.5W	63	0.09	0.14
	76	0.03	0.07
	96	0.01	0.11
	118	0.01	0.05
	137	0.01	0.07
	166	0.01	0.04
	193	0.00	0.04

	DEPTH	CHL A	PHAEO
STATION 93070	1	0.06	0.03
05/31/78			

	DEPTH	CHL A	PHAEO		DEPTH	CHL A	PHAEO		DEPTH	CHL A	PHAEO
STATION 93080	2	0.09	0.02	STATION 93090	1	0.06	0.02	STATION 97030	1	0.27	0.15
05/31/78	10	0.09	0.01	05/31/78	10	0.07	0.01	06/02/78	11	0.40	0.18
1446 GMT	30	0.08	0.03	2026 GMT	29	0.08	0.01	1413 GMT	20	0.95	0.70
	39	0.09	0.01		57	0.11	0.03		30	0.53	0.53
31 10.5N	52	0.10	0.02	30 50.0N	66	0.13	0.05	32 16.0N	39	0.36	0.44
120 55.0W	66	0.11	0.04	121 34.5W	80	0.16	0.06	117 07.0W			
	90	0.17	0.09		94	0.17	0.11				
	108	0.29	0.19		108	0.29	0.20				
	127	0.16	0.14		131	0.14	0.07				
	146	0.07	0.05		150	0.03	0.04				
	174	0.01	0.03		178	0.01	0.02				
	207	0.00	0.02		206	0.00	0.02				
STATION 97035	1	0.07	0.08	STATION 97040	0	0.16	0.08	STATION 97050	1	0.22	0.09
06/02/78	11	0.09	0.06	06/02/78	10	0.14	0.09	06/01/78	10	0.17	0.07
0955 GMT	29	0.43	0.23	0612 GMT	38	0.29	0.27	2359 GMT	29	0.32	0.15
	39	0.59	0.43		61	0.07	0.09		38	0.26	0.16
32 05.5N	53	0.26	0.18	31 54.4N	79	0.05	0.07	31 36.0N	47	0.22	0.22
117 27.5W	67	0.13	0.11	117 48.6W	94	0.02	0.05	118 30.5W	61	0.27	0.20
	91	0.05	0.07		108	0.01	0.05		75	0.16	0.20
	109	0.01	0.05		126	0.00	0.04		93	0.08	0.10
	128	0.01	0.08		145	0.01	0.03		116	0.03	0.05
	146	0.00	0.03		167	0.00	0.04		134	0.02	0.03
	174	0.00	0.03		192	0.00	0.03		162	0.01	0.02
	207	0.00	0.03		215	0.01	0.02		190	0.01	0.02
STATION 97060	1	0.10	0.02	STATION 97070	1	0.08	0.04	STATION 97080	0	0.05	0.05
06/01/78	10	0.09	0.03	06/01/78	10	0.09	0.01	06/01/78	10	0.06	0.03
1850 GMT	29	0.11	0.05	1240 GMT	29	0.10	0.05	0652 GMT	29	0.06	0.04
	39	0.18	0.05		38	0.12	0.06		39	0.09	0.02
31 15.5N	46	0.18	0.05	30 55.0N	52	0.14	0.05	30 35.0N	49	0.08	0.03
119 10.0W	62	0.34	0.19	119 50.6W	66	0.19	0.10	120 31.0W	63	0.09	0.06
	76	0.26	0.37		90	0.17	0.18		78	0.14	0.07
	94	0.18	0.23		108	0.12	0.14		95	0.21	0.19
	117	0.09	0.09		126	0.08	0.07		120	0.18	0.24
	136	0.05	0.08		145	0.03	0.04		139	0.10	0.10
	162	0.01	0.02		173	0.01	0.03		166	0.02	0.03
	191	0.01	0.02		205	0.00	0.02		194	0.01	0.01
STATION 97090	1	0.02	0.08	STATION 100030	0	2.57	0.57	STATION 100035	2	0.11	0.04
06/01/78	10	0.05	0.03	06/03/78	10	5.84	1.11	06/04/78	10	0.12	0.03
0140 GMT	28	0.07	0.02	2324 GMT	29	0.53	0.53	0359 GMT	38	0.85	0.34
	37	0.08	0.02		43	0.07	0.16		61	0.47	0.32
30 15.7N	47	0.08	0.04	31 40.5N	53	0.03	0.05	31 30.5N	81	0.14	0.18
121 10.0W	60	0.08	0.04	116 46.5W	67	0.02	0.07	117 07.0W	94	0.05	0.10
	74	0.10	0.07		81	0.04	0.16		108	0.03	0.09
	93	0.23	0.15		95	0.02	0.15		127	0.02	0.11
	116	0.05	0.07		119	0.03	0.18		146	0.02	0.10
	134	0.11	0.10		138	0.04	0.11		169	0.02	0.10
	162	0.04	0.05		166	0.05	0.11		193	0.02	0.08
	190	0.01	0.02		194	0.01	0.13		216	0.01	0.08
STATION 100040	1	0.09	0.06	STATION 100050	1	0.09	0.03	STATION 100060	1	0.09	0.03
06/04/78	11	0.09	0.06	06/04/78	10	0.09	0.02	06/04/78	10	0.10	0.02
0728 GMT	29	0.28	0.16	1215 GMT	28	0.18	0.09	1842 GMT	29	0.09	0.03
	39	0.27	0.19		37	0.27	0.15		38	0.11	0.02
31 21.0N	48	0.18	0.11	31 00.5N	51	0.26	0.20	30 40.6N	52	0.13	0.07
117 27.0W	61	0.12	0.09	118 07.0W	64	0.21	0.19	118 50.0W	67	0.22	0.06
	76	0.07	0.08		87	0.17	0.17		90	0.39	0.11
	95	0.03	0.10		105	0.07	0.11		109	0.17	0.14
	118	0.01	0.04		123	0.05	0.06		128	0.06	0.09
	137	0.01	0.03		141	0.01	0.04		146	0.03	0.05
	165	0.00	0.03		168	0.01	0.02		175	0.00	0.04
	192	0.01	0.02		200	0.00	0.02		207	0.01	0.04
STATION 100070	1	0.08	0.02	STATION 100080	1	0.05	0.05	STATION 100090	1	0.07	0.04
06/04/78	11	0.09	0.01	06/05/78	11	0.08	0.02	06/05/78	11	0.08	0.03
2359 GMT	30	0.09	0.02	0511 GMT	30	0.07	0.02	0939 GMT	29	0.09	0.03
	39	0.10	0.02		39	0.10	0.02		38	0.09	0.04
30 20.5N	53	0.15	0.06	30 01.0N	48	0.10	0.04	29 40.5N	52	0.10	0.05
119 27.5W	66	0.21	0.07	120 07.0W	63	0.16	0.04	120 47.0W	66	0.13	0.07
	91	0.35	0.25		77	0.18	0.09		89	0.21	0.15
	109	0.24	0.18		95	0.23	0.22		108	0.21	0.19
	130	0.07	0.06		120	0.11	0.16		127	0.11	0.15
	147	0.04	0.04		137	0.05	0.08		145	0.06	0.07
	175	0.01	0.03		165	0.02	0.02		173	0.02	0.03
	207	0.00	0.02		194	0.01	0.02		206	0.00	0.01
STATION 103030	1	1.25	0.34	STATION 103035	1	0.15	0.02	STATION 103040	1	0.18	0.08
06/06/78	11	2.08	0.53	06/06/78	10	0.47	0.07	06/06/78	11	0.20	0.07
2259 GMT	20	2.67	1.07	1951 GMT	29	0.70	0.13	1640 GMT	28	0.33	0.19
	30	0.72	0.48		39	0.33	0.10		40	0.40	0.26
31 06.0N	49	0.29	0.36	30 56.0N	48	1.22	0.37	30 46.0N	48	0.28	0.24
116 24.5W				116 45.0W	62	0.28	0.22	117 04.5W	63	0.14	0.17
					75	0.14	0.13		75	0.12	0.18
					94	0.16	0.05		94	0.04	0.13
					118	0.11	0.06		118	0.01	0.04
					136	0.01	0.03		136	0.01	0.04
					164	0.01	0.02		164	0.01	0.05
					192	0.00	0.03		191	0.01	0.02

	DEPTH	CHL A	PHAEO		DEPTH	CHL A	PHAEO		DEPTH	CHL A	PHAEO
STATION 103050	1	0.13	0.06	STATION 103060	1	0.09	0.02	STATION 103070	1	0.05	0.05
06/06/78	11	0.13	0.06	06/06/78	11	0.08	0.03	06/05/78	11	0.05	0.04
1020 GMT	30	0.30	0.14	0531 GMT	29	0.09	0.03	2321 GMT	30	0.07	0.03
	39	0.24	0.15		39	0.15	0.07		39	0.08	0.03
30 26.0N	48	0.23	0.11	30 06.0N	49	0.21	0.11	29 46.2N	49	0.09	0.04
117 44.5W	63	0.32	0.26	118 25.0W	63	0.16	0.11	119 04.8W	63	0.10	0.06
	76	0.22	0.26		77	0.17	0.12		77	0.13	0.09
	95	0.19	0.21		95	0.13	0.21		96	0.21	0.25
	117	0.05	0.07		118	0.15	-0.02		119	0.15	0.16
	136	0.01	0.05		137	0.04	0.06		138	0.08	0.09
	165	0.01	0.03		165	0.01	0.03		166	0.02	0.02
	193	0.00	0.03		193	0.00	0.25		194	0.01	0.01
STATION 103080	1	0.10	0.00	STATION 107032	1	3.56	0.42	STATION 107035	2	0.09	0.09
06/05/78	10	0.09	0.02	06/07/78	9	4.55	1.92	06/07/78	10	0.09	0.07
1811 GMT	29	0.10	0.02	0314 GMT	28	1.28	0.96	0524 GMT	39	0.55	0.35
	38	0.11	0.02		42	0.76	0.82		61	0.29	0.24
29 25.0N	48	0.12	0.04	30 25.9N	52	0.56	0.76	30 21.5N	80	0.11	0.13
119 43.9W	62	0.14	0.05	116 11.0W	67	0.39	0.61	116 22.5W	93	0.05	0.07
	76	0.20	0.06		81	0.39	0.53		107	0.04	0.08
	94	0.22	0.13		99	0.13	0.42		126	0.00	0.05
	117	0.21	0.15		123	0.06	0.23		146	0.01	0.05
	136	0.12	0.11		142	0.06	0.20		169	0.01	0.04
	164	0.05	0.05		175	0.06	0.15		193	0.00	0.05
	192	0.02	0.01		203	0.07	0.12		215	0.01	0.04
STATION 107040	1	0.12	0.05	STATION 107050	1	0.09	0.06	STATION 107060	1	0.09	0.06
06/07/78	10	0.12	0.06	06/07/78	10	0.10	0.03	06/07/78	9	0.12	0.03
0840 GMT	28	0.19	0.05	1358 GMT	29	0.21	0.01	2035 GMT	29	0.18	0.04
	37	0.27	0.15		38	0.24	0.09		38	0.26	0.06
30 11.0N	47	0.22	0.15	29 50.5N	47	0.24	0.12	29 32.0N	46	0.27	0.03
116 42.0W	60	0.18	0.16	117 22.0W	61	0.27	0.15	118 01.5W	61	0.32	0.17
	94	0.22	0.11		75	0.15	0.14		75	0.24	0.16
	117	0.05	0.11		93	0.13	0.06		93	0.12	0.12
	135	0.02	0.07		116	0.04	0.05		116	0.07	0.15
	163	0.02	0.05		135	0.02	0.02		135	0.06	0.06
	191	0.01	0.06		163	0.00	0.04		162	0.01	0.02
	219	0.01	0.06		191	0.01	0.01		190	0.00	0.03
STATION 107070	1	0.06	0.02	STATION 107080	1	0.09	-0.00	STATION 110035	2	0.18	0.04
06/08/78	11	0.06	0.02	06/08/78	10	0.08	0.03	06/09/78	11	0.20	0.05
0204 GMT	29	0.06	0.03	0710 GMT	29	0.06	0.03	1448 GMT	30	1.35	0.48
	39	0.08	0.03		39	0.08	0.03		39	0.66	0.42
29 11.0N	48	0.09	0.03	28 51.5N	48	0.08	0.03	29 46.0N	48	0.22	0.22
118 41.0W	62	0.09	0.05	119 20.0W	62	0.11	0.06	116 00.0W	62	0.11	0.08
	76	0.09	0.06		76	0.19	0.10		76	0.06	0.09
	95	0.21	0.07		93	0.19	0.16		95	0.12	0.07
	118	0.17	0.12		118	0.14	0.16		118	0.02	0.06
	137	0.12	0.08		135	0.11	0.11		137	0.03	0.06
	165	0.02	0.05		164	0.02	0.06		165	0.02	0.05
	193	0.01	0.01		192	0.01	0.01		192	0.04	0.06
STATION 110040	1	0.22	0.10	STATION 110050	1	0.08	0.04	STATION 110060	1	0.07	0.02
06/09/78	10	0.24	0.08	06/09/78	10	0.10	0.04	06/09/78	10	0.08	0.02
1125 GMT	29	1.71	0.81	0502 GMT	30	0.13	0.04	0033 GMT	29	0.08	0.03
	38	0.32	0.29		39	0.17	0.06		38	0.09	0.02
29 36.5N	48	0.13	0.15	29 15.8N	48	0.21	0.08	28 56.5N	47	0.11	0.04
116 19.5W	62	0.17	0.21	116 58.8W	62	0.27	0.10	117 39.0W	61	0.17	0.04
	76	0.11	0.25		76	0.22	0.13		75	0.27	0.08
	94	0.04	0.11		94	0.11	0.14		93	0.27	0.20
	118	0.01	0.09		118	0.07	0.09		116	0.22	0.18
	136	0.01	0.07		137	0.04	0.04		135	0.10	0.11
	164	0.01	0.07		165	0.01	0.03		163	0.03	0.04
	192	0.01	0.07		193	0.01	0.02		191	0.00	0.03
STATION 110070	2	0.07	0.02	STATION 110080	1	0.06	0.05	STATION 113050	1	0.08	0.02
06/08/78	11	0.08	0.02	06/08/78	10	0.07	0.02	06/10/78	10	0.17	0.03
1847 GMT	29	0.09	0.03	1231 GMT	29	0.08	0.03	0210 GMT	38	0.16	0.02
	38	0.11	0.03		38	0.09	0.03		62	0.19	0.08
28 36.5N	47	0.13	0.04	28 17.0N	47	0.11	0.06	28 41.5N	80	0.21	0.11
118 18.0W	61	0.17	0.06	118 57.5W	61	0.16	0.07	116 36.5W	94	0.15	0.22
	75	0.28	0.12		75	0.26	0.17		108	0.09	0.13
	92	0.35	0.28		94	0.26	0.29		127	0.05	0.07
	116	0.19	0.16		117	0.10	0.12		146	0.01	0.03
	135	0.06	0.10		136	0.04	0.06		169	0.00	0.05
	162	0.02	0.04		163	0.01	0.02		192	0.01	0.01
	190	0.01	0.01		191	0.01	0.01		216	0.00	0.01
STATION 113060	1	0.08	0.04	STATION 113070	1	0.06	0.03	STATION 113080	1	0.14	-0.02
06/10/78	10	0.06	0.05	06/10/78	11	0.06	0.03	06/10/78	10	0.15	-0.02
0750 GMT	29	0.09	0.05	1216 GMT	30	0.07	0.03	1753 GMT	29	0.13	0.02
	38	0.10	0.06		39	0.09	0.05		38	0.13	0.02
28 22.0N	47	0.13	0.07	28 02.0N	48	0.11	0.05	27 44.5N	46	0.13	0.03
117 16.0W	61	0.15	0.07	117 55.0W	63	0.13	0.06	118 36.0W	61	0.24	0.07
	75	0.23	0.13		77	0.15	0.10		75	0.51	-0.01
	94	0.26	0.18		95	0.21	0.22		94	0.24	0.20
	117	0.16	0.23		119	0.11	0.11		117	0.21	0.02
	135	0.08	0.13		137	0.05	0.05		136	0.05	0.05
	164	0.01	0.07		165	0.01	0.06		164	0.01	0.03
	192	0.01	0.04		192	0.00	0.04		192	0.00	0.03

Secchi Disk Observations

CalCOFI Cruise 7805

Stat #	Mo	Dy	Local Time (+7:PDT)	Depth (m)	Weather	Clouds Type/Amt
60.052 ⁵	5	14	1638	3	4	- 9
60.080	5	15	1030	30	1	8 1
60.090	5	15	1535	20	1	8 2
63.060	5	16	1621	19	0	- 0
63.070	5	16	1015	14	1	8 1
67.050	5	17	0925	5	0	- 0
67.055	5	17	1230	8	0	- 0
67.060	5	17	1613	22	0	- 0
67.090	5	18	0923	18	2	7 8
70.051	5	19	1318	9	1	7 2
70.053	5	19	1131	17	4	7 2
70.090	5	18	1450	25	1	7 7
73.050	5	19	1732	19	4	7 8
73.080	5	20	1025	25	1	6 7
73.090	5	20	1655	30	1	6 7
77.060	5	21	1420	23	2	6 8
77.070	5	21	0848	17	2	6 8
80.060	5	22	0820	17	2	6 8
80.070	5	22	1410	14	1	6 6
83.070	5	23	1750	13	1	6 3
83.080	5	23	1225	17	1	6 6
87.032 ⁵	5	25	1000	4	1	8 1
87.032 ⁷	5	25	1050	5	1	8 1
87.033	5	25	1126	5	1	8 1
87.035	5	25	1308	7	1	8 1
87.040	5	25	1550	20	1	0 4
87.055	5	28	1425	15	0	- 0
87.090	5	29	1225	24	1	6 6
90.045	5	26	1206	15	1	4 1
90.053	5	28	0916	26	0	- 0
90.060	5	30	1218	17	2	6 8
90.090	5	29	1800	22	1	6 6
93.026 ⁹	5	27	1113	7	0	- 0
93.028	5	28	1223	20	0	- 0
93.030	5	27	1357	18	0	- 0
93.035	5	27	1748	21	0	- 0
93.055	5	30	1648	15	2	7 8
93.080	5	31	0805	27	2	7 8
93.090	5	31	1253	30	2	6 8

Stat #	Mo	Dy	Local Time (+7:PDT)	Depth (m)	Weather	Clouds Type/Amt
97.050	6	1	1640	19	2	7 8
97.055	6	1	1400	32	2	6 8
97.060	6	1	1208	36	2	6 8
97.090	5	31	1815	24	2	7 8
100.029	6	3	1514	7	0	- 0
100.030	6	3	1605	7	0	- 0
100.060	6	4	1203	24	2	7 8
100.070	6	4	1634	22	2	7 8
103.030	6	6	1550	9	2	7 8
103.035	6	6	1312	24	2	7 8
103.040	6	6	0955	27	2	7 8
103.070	6	5	1600	23	2	7 8
103.080	6	5	1230	31	2	7 8
107.060	6	7	1310	28	2	7 8
107.070	6	7	1840	29	2	7 8
110.032 ⁴	6	9	1000	10	2	7 8
110.060	6	8	1700	25	2	7 8
110.070	6	8	1210	36	1	7 7
113.050	6	9	1850	22	2	7 8
113.080	6	10	1112	35	2	7 8

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