

199B/5-12-87

ACCESSION NUMBER

8700194

DATA DOCUMENTATION FORM

F022 TT 8286-TT8291

C022 319723-319728

NOAA FORM 24-13 (4-77)

U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEANOGRAPHIC DATA CENTER RECORDS SECTION WASHINGTON, DC 20235

FORM APPROVED O.M.B. No. 41-R2651 EXPIRES 1-81

(While you are not required to use this form, it is the most desirable mechanism for providing the required ancillary information enabling the NODC and users to obtain the greatest benefit from your data.)

This form should accompany all data submissions to NODC. Section A, Originator Identification, must be completed when the data are submitted. It is highly desirable for NODC to also receive the remaining pertinent information at that time. This may be most easily accomplished by attaching reports, publications, or manuscripts which are readily available describing data collection, analysis, and format specifics. Readable, handwritten submissions are acceptable in all cases. All data shipments should be sent to the above address.

A. ORIGINATOR IDENTIFICATION

THIS SECTION MUST BE COMPLETED BY DONOR FOR ALL DATA TRANSMITTALS

1. NAME AND ADDRESS OF INSTITUTION, LABORATORY, OR ACTIVITY WITH WHICH SUBMITTED DATA ARE ASSOCIATED Dr. Stanley P. Hayes NOAA/Pacific Marine Environmental Lab. Bldg. 3/ Bin C15700 7600 Sand Point Way NE Seattle, WA 98115			
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED POCS cruises in 1984, 1985 & 1986		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT EP4-84-RS EP2-86-OC EP1-85-D1 EP3-86-OC EP2-85-D1 EP4-86-OC EP3-85-RS	
4. PLATFORM NAME(S) R/V Researcher R/V Discoverer R/V Oceanographer	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.) Ships	6. PLATFORM AND OPERATOR NATIONALITY(IES) PLATFORM OPERATOR U.S. U.S.	7. DATES FROM: MO/DAY/YR TO: MO/DAY/YR 11/13/84 12/1/86
8. ARE DATA PROPRIETARY? <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR MONTH		11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED. GENERAL AREA	
9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)? (I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?) <input type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> PART (SPECIFY BELOW)		10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1) Dr. Stanley P. Hayes 206-526-6742	

B. SCIENTIFIC CONTENT

Include enough information concerning manner of observation, instrumentation, analysis, and data reduction routines to make them understandable to future users. Furnish the minimum documentation considered relevant to each data type. Documentation will be retained as a permanent part of the data and will be available to future users. Equivalent information already available may be substituted for this section of the form (i.e., publications, reports, and manuscripts describing observational and analytical methods). If you do not provide equivalent information by attachment, please complete the scientific content section in a manner similar to the one shown in the following example.

EXAMPLE (HYPOTHETICAL INFORMATION)

NAME OF DATA FIELD	REPORTING UNITS OR CODE	METHODS OF OBSERVATION AND INSTRUMENTS USED (SPECIFY TYPE AND MODEL)	ANALYTICAL METHODS (INCLUDING MODIFICATIONS) AND LABORATORY PROCEDURES	DATA PROCESSING TECHNIQUES WITH FILTERING AND AVERAGING
Salinity	‰	Nansen bottles	Inductive salinometer (Hytech model S510)	N/A (Not applicable)
		STD Bissett-Berman Model 9006	N/A	Values averaged over 5-meter intervals
Water color	Forel scale	Visual comparison with Forel bottles	N/A	N/A
Sediment size	φ units and percent by weight	Ewing corer	Standard sieves. Carbonate fraction removed by acid treatment	Same as "Sedimentary Rock Manual," Folk '65

(SPACE IS PROVIDED ON THE FOLLOWING
TWO PAGES FOR THIS INFORMATION)

B. SCIENTIFIC CONTENT

NAME OF DATA FIELD	REPORTING UNITS OR CODE	METHODS OF OBSERVATION AND INSTRUMENTS USED (SPECIFY TYPE AND MODEL)	ANALYTICAL METHODS (INCLUDING MODIFICATIONS) AND LABORATORY PROCEDURES	DATA PROCESSING TECHNIQUES WITH FILTERING AND AVERAGING
Pressure	decibars	Neil Brown CTD/O ₂	N/A	Values averaged over 1 decibar intervals
Temperature	°C	"	"	"
Salinity	PSU	"	"	"
Oxygen	mL/L	"	"	"

B. SCIENTIFIC CONTENT

NAME OF DATA FIELD	REPORTING UNITS OR CODE	METHODS OF OBSERVATION AND INSTRUMENTS USED (SPECIFY TYPE AND MODEL)	ANALYTICAL METHODS (INCLUDING MODIFICATIONS) AND LABORATORY PROCEDURES	DATA PROCESSING TECHNIQUES WITH FILTERING AND AVERAGING

C. DATA FORMAT

This information is requested only for data transmitted on punched cards or magnetic tape. Have one of your data processing specialists furnish answers either on the form or by attaching equivalent readily available documentation. Identify the nature and meaning of all entries and explain any codes used.

1. List the record types contained in your file transmittal (e.g., tape label record, master, detail, standard depth, etc.).
2. Describe briefly how your file is organized.
- 3-13. Self-explanatory.
14. Enter the field name as appropriate (e.g., header information, temperature, depth, salinity).
15. Enter starting position of the field.
16. Enter field length in number columns and unit of measurement (e.g., bit, byte, character, word) in unit column.
17. Enter attributes as expressed in the programming language specified in item 3 (e.g., "F 4.1," "BINARY FIXED (5.1)").
18. Describe field. If sort field, enter "SORT 1" for first, "SORT 2" for second, etc. If field is repeated, state number of times it is repeated.

C. DATA FORMAT

COMPLETE THIS SECTION FOR PUNCHED CARDS OR TAPE, MAGNETIC TAPE, OR DISC SUBMISSIONS.

**1. LIST RECORD TYPES CONTAINED IN THE TRANSMITTAL OF YOUR FILE
GIVE METHOD OF IDENTIFYING EACH RECORD TYPE**

The first five records contain header information for the 1st cast. The header records are identified by the readable labels preceding most fields. The five header records are followed by a variable number of data records depending on the depth of each cast. The data records are followed by the header record for the next cast.

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

One file with all CTD casts in one file.

The first five records of the file contain header information for first cast. These are followed by a variable number of data records, which are, in turn, followed immediately by five header records for next cast. Each record is 80 characters long.

- See attached NOAA/PMEL/OCRD Data Format Description for details

3. ATTRIBUTES AS EXPRESSED IN PL-1 ALGOL COBOL
 FORTRAN _____ LANGUAGE

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER Linda Mangum / Jean Lynch 526-6740, 526-6204
ADDRESS NOAA/PMEL, 7600 Sand Pt. Way NE, Seattle WA 98115

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

<p>5. RECORDING MODE</p> <p><input type="checkbox"/> BCD <input type="checkbox"/> BINARY</p> <p><input type="checkbox"/> ASCII <input checked="" type="checkbox"/> EBCDIC</p> <p><input type="checkbox"/> _____</p>	<p>9. LENGTH OF INTER-RECORD GAP (IF KNOWN) <input type="checkbox"/> 3/4 INCH</p> <p><input type="checkbox"/> _____</p>
<p>6. NUMBER OF TRACKS (CHANNELS)</p> <p><input type="checkbox"/> SEVEN</p> <p><input checked="" type="checkbox"/> NINE</p> <p><input type="checkbox"/> _____</p>	<p>10. END OF FILE MARK</p> <p><input checked="" type="checkbox"/> OCTAL 17</p> <p><input type="checkbox"/> _____</p>
<p>7. PARITY</p> <p><input checked="" type="checkbox"/> ODD</p> <p><input type="checkbox"/> EVEN</p>	<p>11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME KEY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)</p> <p>NOAA/PMEL / 9 track EPCS CTD Data / 1600 BPI 1984-86 / EBCDIC</p>
<p>8. DENSITY</p> <p><input type="checkbox"/> 200 BPI <input checked="" type="checkbox"/> 1600 BPI</p> <p><input type="checkbox"/> 556 BPI</p> <p><input type="checkbox"/> 800 BPI</p> <p><input type="checkbox"/> _____</p>	<p>12. PHYSICAL BLOCK LENGTH IN BYTES</p> <p><u>2400</u></p> <p>13. LENGTH OF BYTES IN BITS</p> <p>_____</p>

RECORD FORMAT DESCRIPTION

RD NAME

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN bytes (e.g. bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
<u>1st Header Record</u>					
Field Label	1	5		H5	Always "CAST _λ " (λ = blank)
Cruise Number	6	11		A11	Cruise I.D. (ex. "EP2-86-0C")
Cast Number	17	3		I3	CTD cast number
Field Label	20	8		H8	Always "^^DATE _λ "
Date: Day	28	2		I2	DAY (1-31)
	30	1		H1	Always "-" field separator
Month	31	3		A3	Month (ex. "JUN")
	34	1		H1	Always "-" field separator
Year	35	2		I2	Year - last two digits
Field Label	37	8		H8	Always "^^TIME _λ "
Time	45	4		I4	GMT time of cast (ex. "0132")
Field Label	49	4		H4	Always " _λ GMT"
Blank	53	2			
Instrument Type	55	26		A26	Instrument description
<u>2nd Header Record</u>					
Field Label	1	4		H4	Always "LAT _λ "
Latitude	5	8		A8	Latitude of cast (degrees & decimal minutes - "45 _λ 15.2N")
Field Label	13	7		H7	Always " _λ LONG _λ "
Longitude	20	9		A9	Longitude of cast (degrees & decimal minutes - "124 _λ 15.8W")
Field Label	29	10		H10	Always " _λ WEATHER _λ "
Weather	39	1		I1	Weather code (see attached table)
Field Label	40	12		H12	Always " _λ SEA _λ STATE _λ "
Sea State	52	1		I1	Sea-State code (see attached table)
Blank	53	2			
File Creation Date	55	15		A15	hh:mm _λ dd-mmm-yy
Blank	70	8			
Header Type	78	1		A1	Header Type ("C" for standard CTD header)
Blank	79	2			

RECORD FORMAT DESCRIPTION

RECORD NAME

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN <small>(e.g., bits, bytes)</small>	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
<u>3rd Header Record</u>					
Field Label Atm. Pressure	1 11	10 2		H10 I2	Always "BAROMETER" Atmospheric pressure in millibars (mbs) over 1000 mbs; example - "19" means 1019 mbs.
Field Label Wind dir.	13 24	11 3		H11 I3	Always "WIND DIR" Wind direction in degrees from which the wind is blowing
Field Label Wind Speed	27 34	7 2		H7 I2	Always "T SPD" Wind speed in knots
Field Label Visibility Code	36 52	16 1		H16 I1	Always "KT VISIBILITY" Visibility code (see attached table)
Blank	53	2			
Number of scans	55	6		I6	Number of data scans to follow
First pressure	61	6		F6.0	Pressure of first scan
Last pressure	67	6		F6.0	Pressure of last scan
Increment	73	5		F5.0	Pressure increment between scans
Blank	78	1			
Number of variables	79	2		I2	Number of variables to be listed in data scans (usually 4)

RECORD FORMAT DESCRIPTION

CORD NAME

14. FIELD NAME	15. POSITION FROM -1 MEASURED IN <small>(e.g., bits, bytes)</small>	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
<u>4th Header Line</u>					
Field Label	1	6		H6	Always "CLOUD ₁ "
Cloud Type	7	1		I1	Cloud Type Code (see attached table)
Field Label	8	9		H9	Always "AMOUNT ₁ "
Cloud Amount	17	1		I1	Cloud Amount Code (see attached table)
Field Label	18	6		H6	Always "DRY ₁ "
Dry bulb Temp.	24	4		F4.1	Dry air temperature in °C to nearest tenth.
Field Label	28	6		H6	Always "WET ₁ "
Wet Bulb Temp.	34	4		F4.1	Wet bulb temperature in °C to nearest tenth.
Field Label	38	9		H9	Always "DEPTH ₁ "
Water depth	47	4		I4	Water depth to nearest meter
Field Label	51	2		H2	"M"
Blank	53	2			
Data Origin	55	26		A26	Information on data origin.
<u>5th Header Line</u>					
Variable codes	1	16		4I4	Variable codes for data listed in data scans. See attached cast listing for explanation of variable codes used.
Blank	17	64			

RECORD FORMAT DESCRIPTION

RECORD NAME _____

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN <small>(e.g., bits, bytes)</small>	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
<u>Data Record</u>					
Pressure	1	8		F8.1	Pressure (dB)
Temperature	9	8		F 8.3	Temperature (°C)
Salinity	17	8		F 8.3	Salinity (PSU)
Oxygen,	25	8		F 8.3	Disolved Oxygen (mL/L)
Blank	26	48			
<p>[Note: If dissolved oxygen is not present it is set to -99.999</p>					

D. INSTRUMENT CALIBRATION

This calibration information will be utilized by NOAA's National Oceanographic Instrumentation Center in their efforts to develop calibration standards for voluntary acceptance by the oceanographic community. Identify the instruments used by your organization to obtain the scientific content of the DDF (i.e., STD, temperature and pressure sensors, salinometers, oxygen meters, velocimeters, etc.) and furnish the calibration data requested by completing and/or checking ("✓") the appropriate spaces. Add the interval time (i.e., 3 months, 6 months, 9 months, etc.) if the fixed interval calibration cycle is checked.

INSTRUMENT TYPE (MFR., MODEL NO.)	DATE OF LAST CALIBRATION	INSTRUMENT WAS CALIBRATED BY		CHECK ONE: INSTRUMENT IS CALIBRATED					INSTRUMENT IS NOT CALI- BRATED (✓)
		YOUR ORGANIZATION (✓)	OTHER ORGANIZATION (GIVE NAME)	AT FIXED INTERVALS (✓)	BEFORE OR AFTER USE (✓)	BEFORE AND AFTER USE (✓)	ONLY AFTER REPAIR (✓)	ONLY WHEN NEW (✓)	
Neil Brown CTD Mark III	May 1987		Northwest Regional Calibration Center, Bellevue, WA			✓			

8700194

NOAA / PMEL / OCRD CTD Data Format Description

Magnetic tapes containing CTD cast data have the following characteristics:

- 1) 9-track
- 2) EBCDIC
- 3) Odd Parity
- 4) 1600 BPI
- 5) Single file
- 6) End-of-file mark - Octal 17

7) Blocking: Tapes have 80-character records blocked 30 records/block, and therefore have 2400 characters/block. The last block on the tape may contain fewer than 2400 characters/block.

8) Data Format: The enclosed data listing shows the format of the data on the tape. The listing format differs from the tape only in that the listing is of subsampled data. On this listing, there is a data header consisting of 5 80-character lines. Line 5 of the header records contains the variable codes for the data that is included in the file. These variable codes are identified in attached listing. The data scans themselves follow sequentially (F8.1,9F8.3).

The number of variables in each data scan is in columns 79-80 of line 3 in the data header. The number of data scans in each cast is in columns 55-60 of line 3 in the data header (see listing).

9) The CTD cast data files are in the order shown on the attached listing.

CAST EP4-84-RS-000 DATE 19 NOV 84 TIME 1011 GMT NEIL BROWN CTD #3158
 LAT 01 28.6N LONG 140 26.2W WEATHER 1 SEA STATE 3 09:02 26-SEP-86 C
 BAROMETER 09 WIND DIR 104 T SPD 15 KT VISIBILITY 7 3053 0. 3052. 1. 4
 CLOUD 8 AMOUNT 2 DRY 23.1 WET 21.3 DEPTH 6000 M NOAA/PMEL/OCRD STAN HAYES

20	41	60	
0.0	25.345	34.813	4.803
100.0	21.018	34.883	3.808
200.0	13.006	34.906	1.480
300.0	10.978	34.792	1.146
400.0	9.548	34.697	1.300
500.0	8.304	34.642	0.944
600.0	7.618	34.606	1.238
700.0	6.766	34.571	1.652
800.0	5.870	34.549	1.945
900.0	5.164	34.546	1.946
1000.0	4.711	34.553	1.962
1100.0	4.304	34.562	1.965
1200.0	3.850	34.577	2.004
1300.0	3.508	34.587	2.094
1400.0	3.216	34.598	2.190
1500.0	2.980	34.609	2.238
1600.0	2.816	34.615	2.338
1700.0	2.630	34.624	2.363
1800.0	2.455	34.630	2.481
1900.0	2.348	34.636	2.612
2000.0	2.229	34.641	2.646
2100.0	2.130	34.648	2.712
2200.0	2.069	34.651	2.748
2300.0	1.907	34.661	2.870
2400.0	1.885	34.661	2.905
2500.0	1.860	34.664	2.935
2600.0	1.799	34.666	2.978
2700.0	1.763	34.669	3.010
2800.0	1.753	34.672	3.030
2900.0	1.753	34.672	3.029
3000.0	1.710	34.674	3.039

Data Variables Contained on NOAA/PMEL/OCRD CTD Data Tape:

1	PRESSURE (DB)
20	TEMPERATURE (C)
41	SALINITY (PSU)
60	OXYGEN

Missing data filled with -99.999

Following casts were written to CTD Data Tape:

	Cruise	Cast	NSCANS
1	EP4-84-RS-000		3053
2	EP4-84-RS-001		201
3	EP4-84-RS-002		4061
4	EP4-84-RS-005		219
5	EP4-84-RS-006		4338
6	EP4-84-RS-007		203
7	EP4-84-RS-008		4466
8	EP4-84-RS-009		208
9	EP4-84-RS-010		3999
10	EP4-84-RS-011		209
11	EP4-84-RS-012		3716
12	EP4-84-RS-013		1001
13	EP4-84-RS-014		1001
14	EP4-84-RS-016		3835
15	EP4-84-RS-017		1012
16	EP4-84-RS-018		1010
17	EP4-84-RS-019		1005
18	EP4-84-RS-020		204
19	EP4-84-RS-023		1005
20	EP4-84-RS-024		1006
21	EP4-84-RS-025		203
22	EP4-84-RS-026		3480
23	EP4-84-RS-027		1015
24	EP4-84-RS-029		208
25	EP4-84-RS-030		3282
26	EP4-84-RS-031		202
27	EP4-84-RS-032		1556
28	EP4-84-RS-033		207
29	EP4-84-RS-034		3055
30	EP4-84-RS-035		1001
31	EP4-84-RS-036		1010
32	EP4-84-RS-037		1006
33	EP4-84-RS-038		1036
34	EP4-84-RS-040		1005
35	EP4-84-RS-041		1004
36	EP4-84-RS-042		1006
37	EP4-84-RS-043		1044
38	EP4-84-RS-044		1001
39	EP4-84-RS-045		1002
40	EP4-84-RS-046		1003
41	EP4-84-RS-047		1018

42	EP4-84-RS-048	1006
43	EP4-84-RS-049	1031
44	EP4-84-RS-003	4101
45	EP4-84-RS-021	3473
46	EP1-85-DI-001	512
47	EP1-85-DI-002	508
48	EP1-85-DI-003	506
49	EP1-85-DI-004	65
50	EP1-85-DI-005	1011
51	EP1-85-DI-006	508
52	EP1-85-DI-007	508
53	EP1-85-DI-008	499
54	EP1-85-DI-009	705
55	EP1-85-DI-010	231
56	EP1-85-DI-011	1011
57	EP1-85-DI-012	229
58	EP1-85-DI-013	1009
59	EP1-85-DI-014	229
60	EP1-85-DI-015	1011
61	EP1-85-DI-016	231
62	EP1-85-DI-017	1014
63	EP1-85-DI-018	230
64	EP1-85-DI-019	1011
65	EP1-85-DI-020	226
66	EP1-85-DI-021	1014
67	EP1-85-DI-022	500
68	EP2-85-DI-001	1012
69	EP2-85-DI-002	1007
70	EP2-85-DI-003	1012
71	EP2-85-DI-004	1008
72	EP2-85-DI-005	1001
73	EP2-85-DI-006	1010
74	EP2-85-DI-007	1011
75	EP2-85-DI-008	1011
76	EP2-85-DI-009	1015
77	EP2-85-DI-010	174
78	EP2-85-DI-011	3458
79	EP2-85-DI-012	1016
80	EP2-85-DI-013	1012
81	EP2-85-DI-014	1018
82	EP2-85-DI-015	176
83	EP2-85-DI-016	3207
84	EP2-85-DI-017	1015
85	EP2-85-DI-018	1016
86	EP2-85-DI-019	1009
87	EP2-85-DI-021	2010
88	EP2-85-DI-022	176
89	EP2-85-DI-023	3502
90	EP2-85-DI-024	1012
91	EP2-85-DI-025	1010
92	EP2-85-DI-026	1013
93	EP2-85-DI-027	1010
94	EP2-85-DI-028	1013
95	EP2-85-DI-029	180
96	EP2-85-DI-031	2013
97	EP2-85-DI-032	1011
98	EP2-85-DI-033	173
99	EP2-85-DI-034	1013
100	EP2-85-DI-035	1014
101	EP2-85-DI-036	1013
102	EP2-85-DI-037	177
103	EP2-85-DI-038	4311
104	EP2-85-DI-039	1010

105	EP2-85-DI-040	1012
106	EP2-85-DI-041	179
107	EP2-85-DI-042	4032
108	EP2-85-DI-043	1009
109	EP2-85-DI-044	1012
110	EP2-85-DI-045	1009
111	EP2-85-DI-046	1008
112	EP2-85-DI-047	1010
113	EP2-85-DI-048	1010
114	EP2-85-DI-049	176
115	EP2-85-DI-052	1014
116	EP2-85-DI-053	1010
117	EP2-85-DI-054	996
118	EP2-85-DI-055	1013
119	EP2-85-DI-056	1011
120	EP2-85-DI-057	1010
121	EP2-85-DI-058	1011
122	EP2-85-DI-059	1014
123	EP3-85-RS-000	1001
124	EP3-85-RS-001	3051
125	EP3-85-RS-002	3071
126	EP3-85-RS-003	3327
127	EP3-85-RS-004	3515
128	EP3-85-RS-005	995
129	EP3-85-RS-006	1000
130	EP3-85-RS-007	1001
131	EP3-85-RS-008	998
132	EP3-85-RS-009	3577
133	EP3-85-RS-010	1004
134	EP3-85-RS-011	1003
135	EP3-85-RS-012	1001
136	EP3-85-RS-013	3729
137	EP3-85-RS-014	3820
138	EP3-85-RS-015	3976
139	EP3-85-RS-016	4251
140	EP3-85-RS-017	4095
141	EP3-85-RS-018	997
142	EP3-85-RS-019	1002
143	EP3-85-RS-020	999
144	EP3-85-RS-021	1002
145	EP3-85-RS-022	1006
146	EP3-85-RS-023	1007
147	EP3-85-RS-024	4017
148	EP3-85-RS-025	1011
149	EP3-85-RS-026	999
150	EP3-85-RS-027	1011
151	EP3-85-RS-028	1011
152	EP3-85-RS-029	1012
153	EP3-85-RS-030	1009
154	EP3-85-RS-031	4102
155	EP2-86-OC-001	251
156	EP2-86-OC-002	2962
157	EP2-86-OC-003	1038
158	EP2-86-OC-004	221
159	EP2-86-OC-005	1010
160	EP2-86-OC-006	223
161	EP2-86-OC-007	336
162	EP2-86-OC-008	3508
163	EP2-86-OC-009	1007
164	EP2-86-OC-010	1006
165	EP2-86-OC-011	3605
166	EP2-86-OC-012	516
167	EP2-86-OC-013	1006

168	EP2-86-OC-014	1007
169	EP2-86-OC-015	1006
170	EP2-86-OC-016	3478
171	EP2-86-OC-017	249
172	EP2-86-OC-018	1007
173	EP2-86-OC-019	1004
174	EP2-86-OC-020	1011
175	EP2-86-OC-021	1006
176	EP2-86-OC-022	3607
177	EP2-86-OC-023	251
178	EP2-86-OC-024	1007
179	EP2-86-OC-025	1007
180	EP2-86-OC-026	404
181	EP2-86-OC-027	3702
182	EP2-86-OC-028	251
183	EP2-86-OC-029	299
184	EP2-86-OC-030	3715
185	EP2-86-OC-031	253
186	EP2-86-OC-032	1012
187	EP2-86-OC-033	1013
188	EP2-86-OC-034	4209
189	EP2-86-OC-035	250
190	EP2-86-OC-036	1013
191	EP2-86-OC-037	1012
192	EP2-86-OC-038	908
193	EP2-86-OC-039	1021
194	EP2-86-OC-041	3934
195	EP2-86-OC-042	1007
196	EP2-86-OC-043	1023
197	EP2-86-OC-044	1004
198	EP2-86-OC-045	250
199	EP2-86-OC-046	4054
200	EP2-86-OC-047	1021
201	EP2-86-OC-048	1007
202	EP2-86-OC-049	402
203	EP2-86-OC-050	1015
204	EP2-86-OC-051	1018
205	EP2-86-OC-052	250
206	EP2-86-OC-053	4136
207	EP2-86-OC-054	1007
208	EP2-86-OC-055	305
209	EP3-86-OC-001	996
210	EP3-86-OC-002	598
211	EP3-86-OC-003	1138
212	EP3-86-OC-004	999
213	EP3-86-OC-005	1009
214	EP3-86-OC-006	1008
215	EP3-86-OC-007	974
216	EP3-86-OC-008	1007
217	EP3-86-OC-009	1008
218	EP3-86-OC-010	3664
219	EP3-86-OC-011	507
220	EP4-86-OC-001	251
221	EP4-86-OC-002	224
222	EP4-86-OC-003	3762
223	EP4-86-OC-004	1014
224	EP4-86-OC-005	999
225	EP4-86-OC-006	3599
226	EP4-86-OC-007	224
227	EP4-86-OC-008	998
228	EP4-86-OC-009	3647
229	EP4-86-OC-010	224
230	EP4-86-OC-011	1008

231	EP4-86-OC-012	3669
232	EP4-86-OC-013	223
233	EP4-86-OC-014	1009
234	EP4-86-OC-015	998
235	EP4-86-OC-016	3201
236	EP4-86-OC-017	224
237	EP4-86-OC-018	999
238	EP4-86-OC-019	999
239	EP4-86-OC-020	3199
240	EP4-86-OC-021	224
241	EP4-86-OC-022	1009
242	EP4-86-OC-023	1008
243	EP4-86-OC-024	1001
244	EP4-86-OC-025	1009
245	EP4-86-OC-026	1008
246	EP4-86-OC-027	998
247	EP4-86-OC-028	1007
248	EP4-86-OC-029	1009
249	EP4-86-OC-030	1000
250	EP4-86-OC-031	1009
251	EP4-86-OC-032	1011
252	EP4-86-OC-033	1000
253	EP4-86-OC-034	1009
254	EP4-86-OC-035	1008
255	EP4-86-OC-036	1000
256	EP4-86-OC-037	1008
257	EP4-86-OC-038	984
258	EP4-86-OC-039	1000
259	EP4-86-OC-040	1009
260	EP4-86-OC-041	1008
261	EP4-86-OC-042	1008
262	EP4-86-OC-043	1000
263	EP4-86-OC-044	1008
264	EP4-86-OC-045	1009
265	EP4-86-OC-046	998
266	EP4-86-OC-047	1008
267	EP4-86-OC-048	1010
268	EP4-86-OC-049	140

Total number of CTD casts written out = 268

TABLE 1

Abbreviations and units used to describe each set of CTD measurements

SALINITY	Salinity, parts per thousand (‰)
TEMPERATURE	Temperature, degrees Celsius (°C)
CAST EP2-82-DI-007	CTD measurement station 007 made from the NOAA research vessel DISCOVERER during 1982
DATE	Day, month, year
TIME	Hours and minutes, Greenwich Mean Time (GMT)
LAT	Latitude, degrees and minutes west
LONG	Longitude, degrees and minutes west
WEATHER	Present weather conditions (see Table 2)
SEA STATE	Present sea state conditions (see Table 3)
BAROMETER	Sea level atmospheric pressure, millibars (mb) over 1000 mb
WIND DIR	Wind direction, degrees True from which the wind blows
SPD	Wind speed, knots
VISIBILITY	Visibility (see Table 4)
CLOUD	Cloud type (see Table 5)
AMOUNT	Amount of cloud cover (see Table 6)
DRY	Dry air temperature, degrees Celsius
WET	Wet bulb temperature, degrees Celsius
DEPTH	Depth to the bottom, meters

TABLE 2

Weather condition code used to describe each set of CTD measurements

<u>Code</u>	<u>Weather Condition</u>
0	Clear (no cloud)
1	Partly cloudy
2	Continuous layer(s) of cloud(s)
3	Sandstorm, dust storm, or blowing snow
4	Fog, thick dust or haze
5	Drizzle
6	Rain
7	Snow, or rain and snow mixed
8	Shower(s)
9	Thunderstorms

TABLE 3

Sea state code used to describe
each set of CTD measurements

<u>Code</u>	<u>Height (meters)</u>	<u>Description</u>
0	0	Calm-glassy
1	0 - 0.1	Calm-rippled
2	0.1 - 0.5	Smooth-wavelet
3	0.5 - 1.25	Slight
4	1.25 - 2.5	Moderate
5	2.5 - 4	Rough
6	4 - 6	Very rough
7	6 - 9	High
8	9 - 14	Very high
9	> 14	Phenomenal

TABLE 4

Visibility code used to describe
each set of CTD measurements

<u>Code</u>	<u>Visibility</u>
0	< 50 meters
1	50 - 200 meters
2	200 - 500 meters
3	500 - 1,000 meters
4	1 - 2 km
5	2 - 4 km
6	4 - 10 km
7	10 - 20 km
8	20 - 50 km
9	50 km or more

TABLE 5**Cloud Type**

<u>Code</u>	<u>Cloud Types</u>
0	Cirrus
1	Cirrocumulus
2	Cirrostratus
3	Alto cumulus
4	Altostratus
5	Nimbostratus
6	Stratocumulus
7	Stratus
8	Cumulus
9	Cumulonimbus
x	Clouds not visible

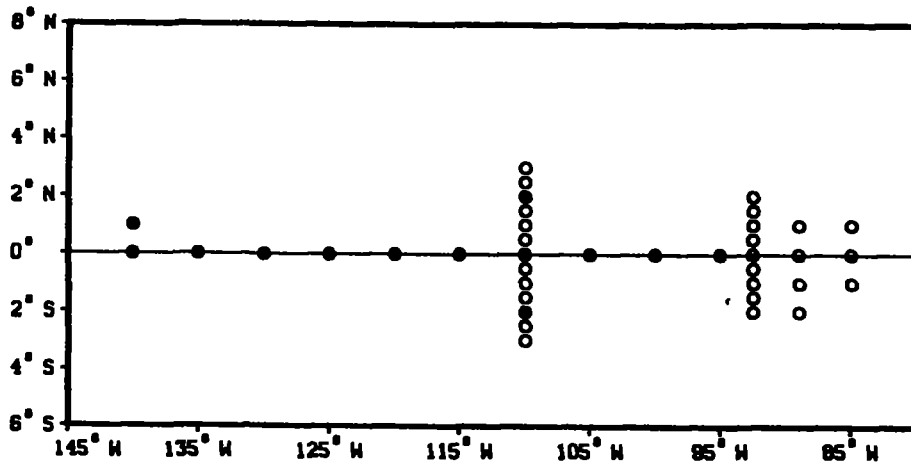
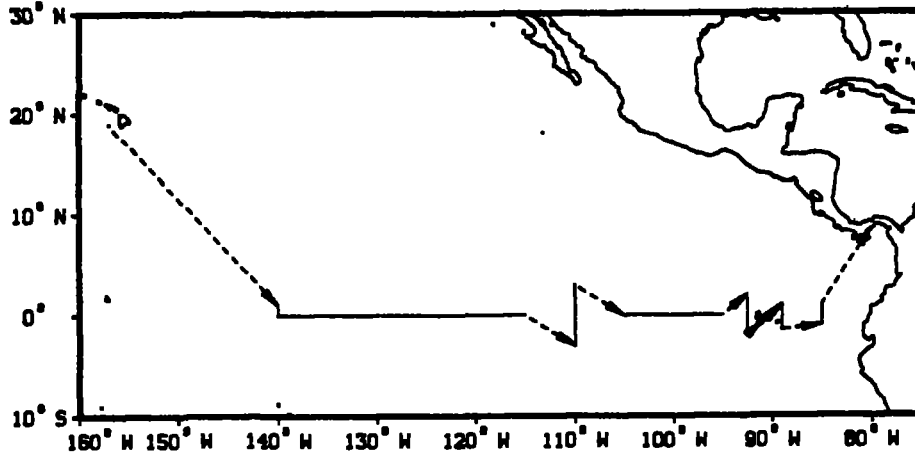
TABLE 6**Cloud Amount**

<u>Code</u>	<u>Cloud Amount</u>
0	0
1	1/10 or less but not zero
2	2/10 - 3/10
3	4/10
4	5/10
5	6/10
6	7/10 - 8/10
7	9/10
8	10/10
9	Sky obscured or not determined

159B/5-13-87

8700194

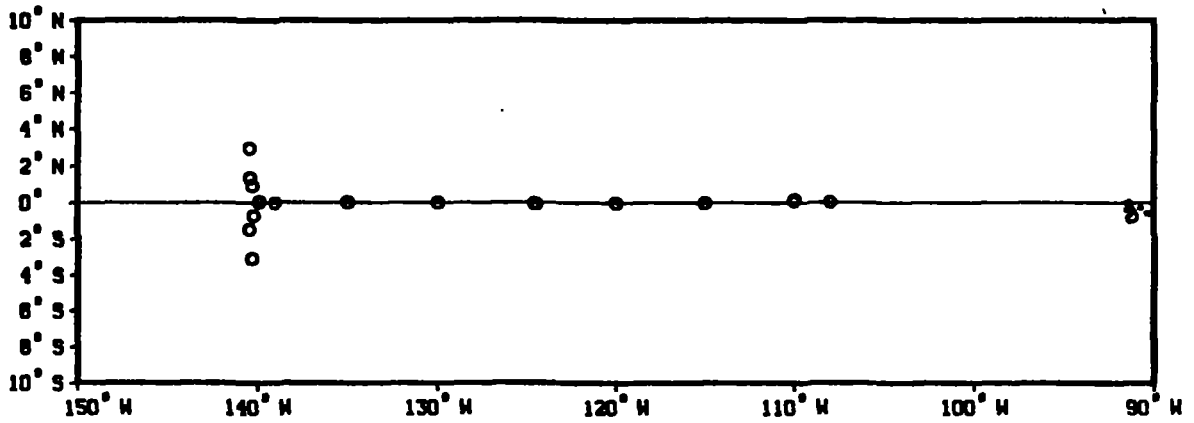
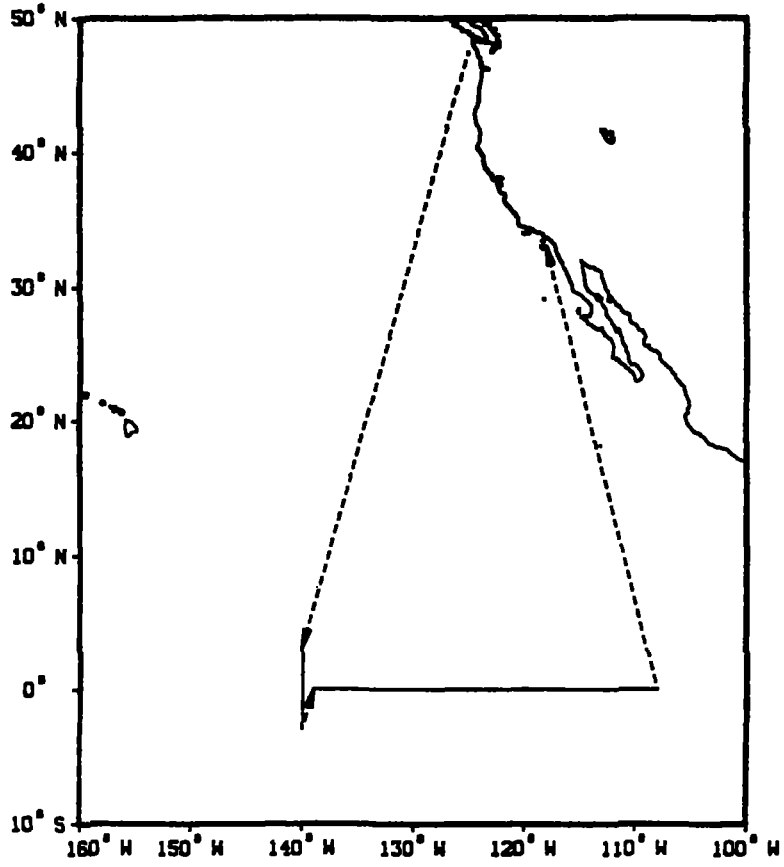
EP4-84-RS
13 November - 13 December 1984
Honolulu - Panama



EP1-85-DI

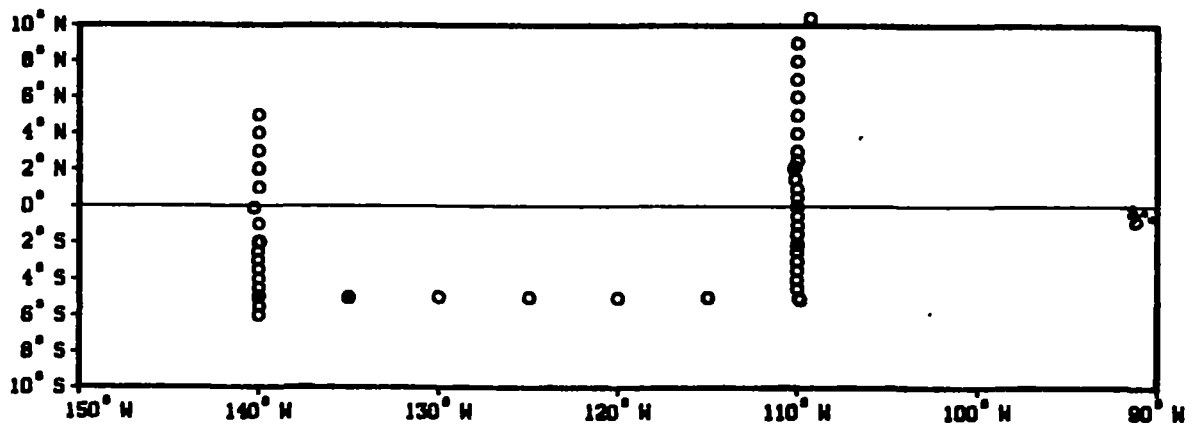
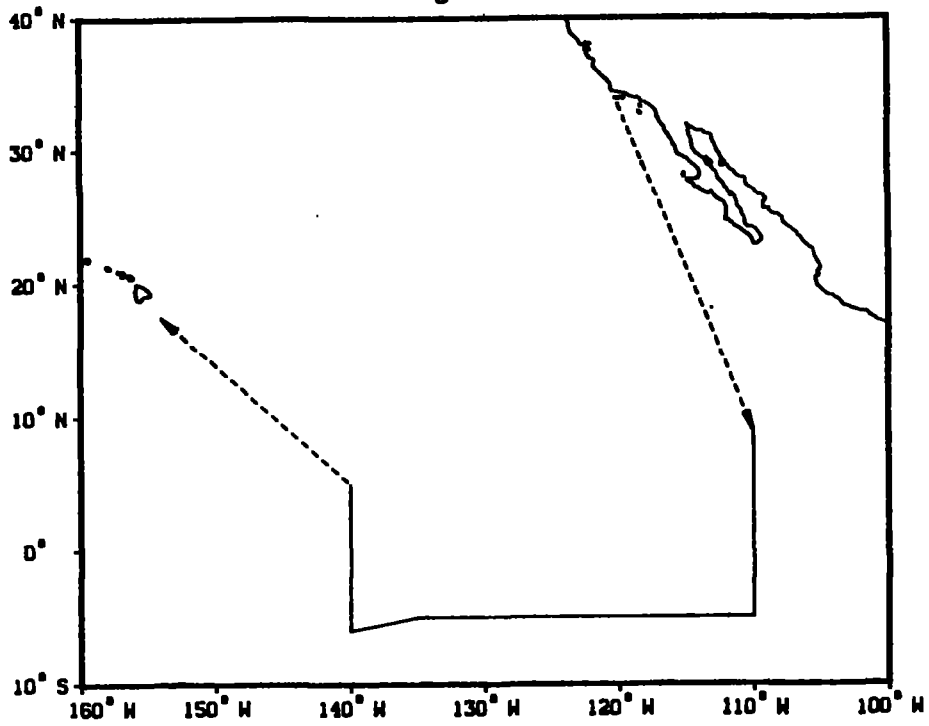
18 April - 16 May 1985

Seattle - San Diego

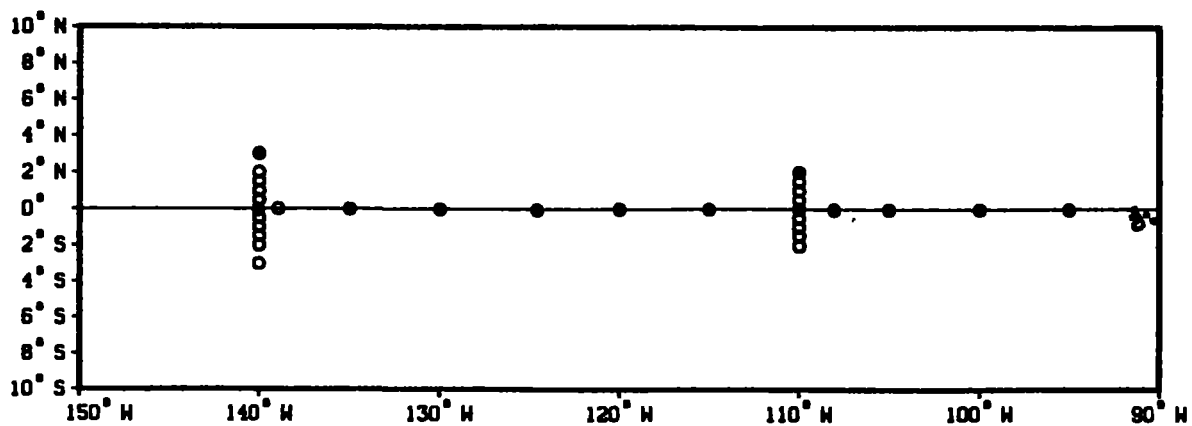
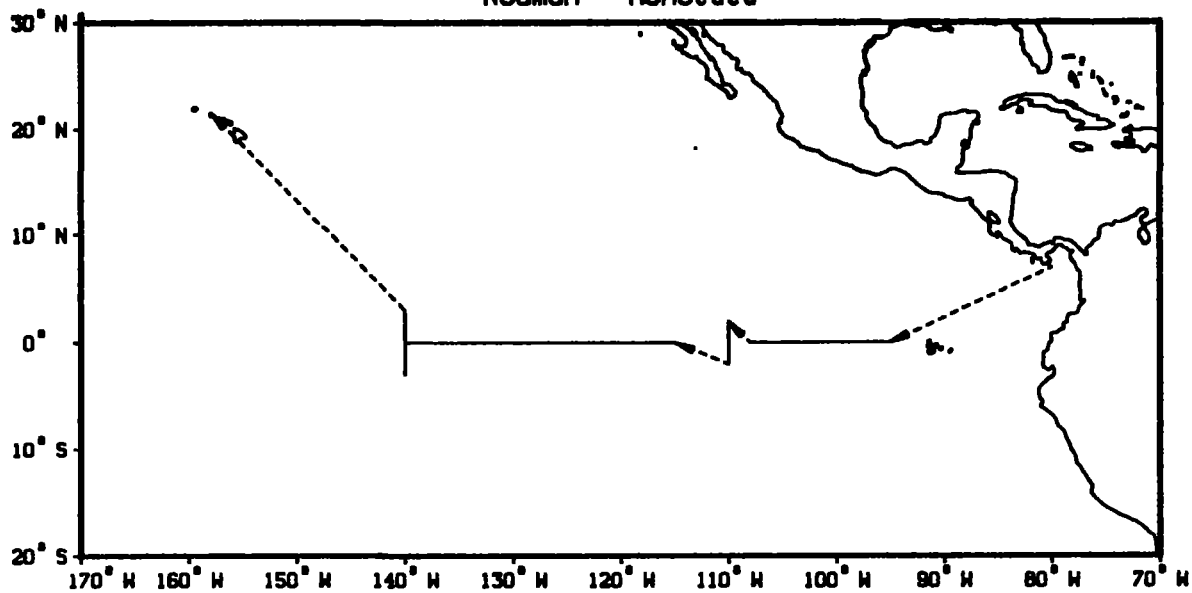


EP2-85-DI

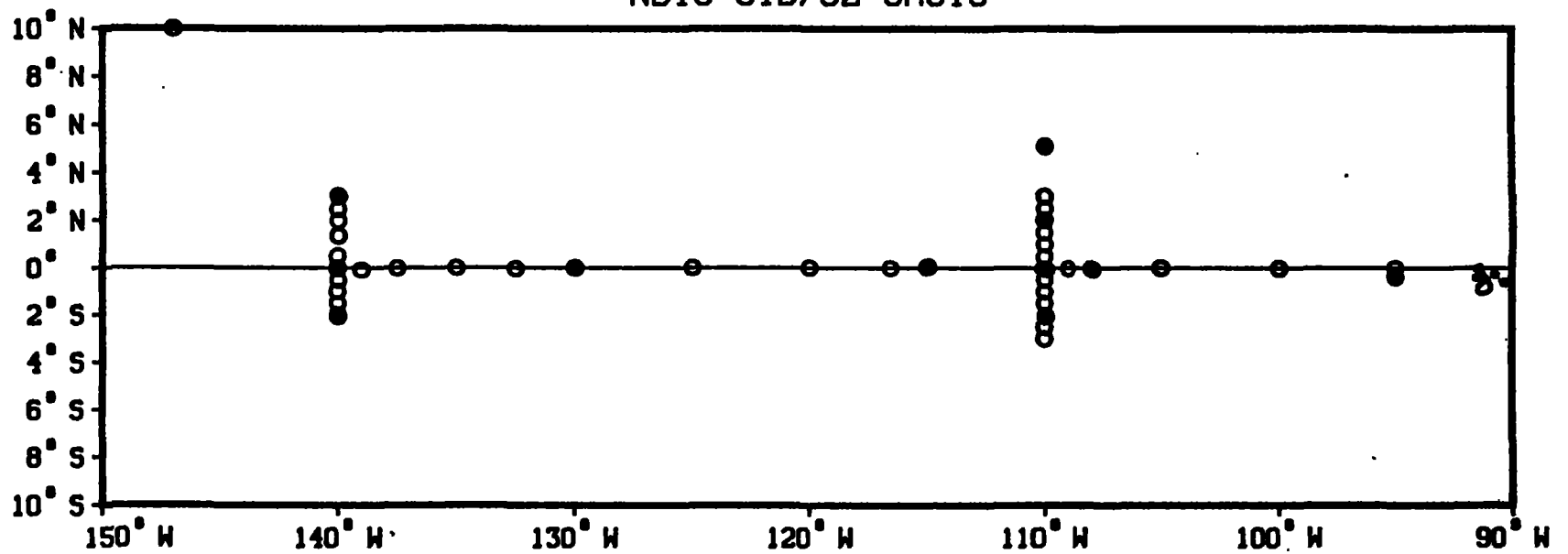
23 May - 19 June 1985
San Diego - Honolulu



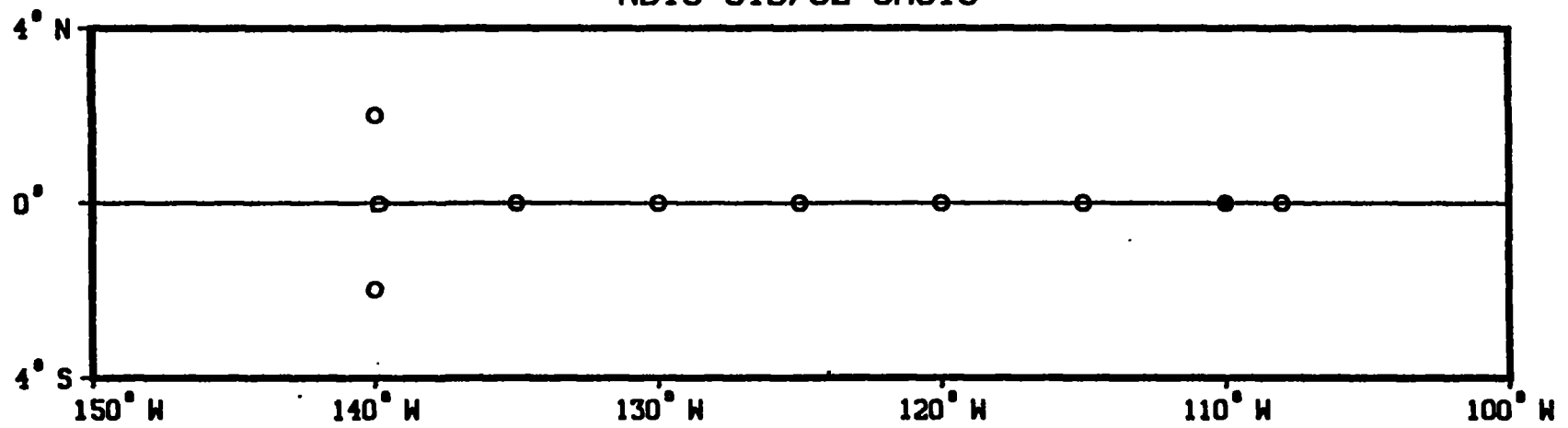
EP3-85-RS
22 September - 18 October 1985
Rodman - Honolulu



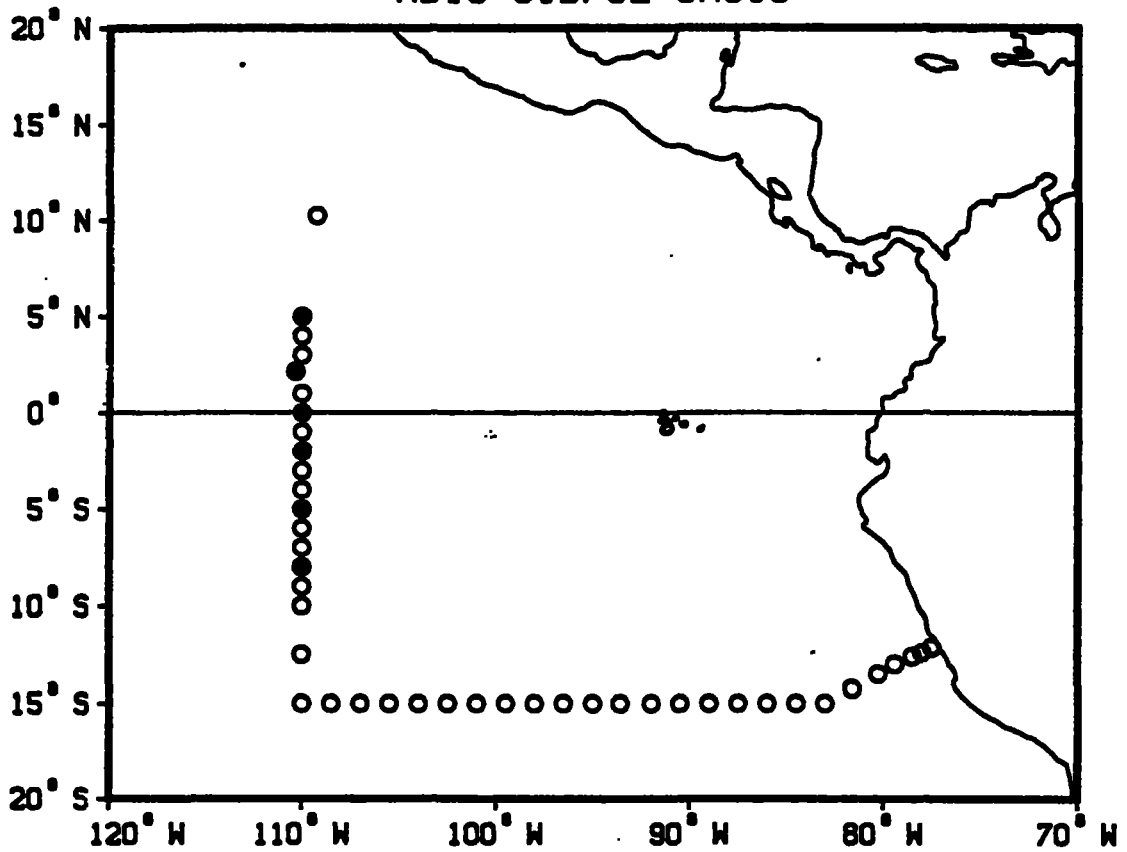
EP2-86-0C
21 May - 20 June 1986
NBIS CTD/02 CASTS



EP3-86-0C
18 October - 10 November 1986
NBIS CTD/O2 CASTS



EP4-86-0C
13 November - 1 December 1986
NBIS CTD/O2 CASTS



8700194

TO: E/OC12 - C. Noe
E/OC11 - P. Hadsell ←
FROM: E/OC13 - A. Picciolo
DATE: December 9, 1987
SUBJECT: Data Transfer

The following listed data sets have been transferred as indicated:

DATA ARCHIVE AND INVENTORIES BRANCH (E/OC11)

WIND/WAVE SPECTRA (F191)

Acc: 8500302 Ref: BR3256 - 3338 83 stations 375,400 records

JUNE 1985 - replacement

✓ C/STD (F022/C022) ✓

Acc: 8700194 Ref: TT8286 - 8291/319723 - 9728 268 stations
71,614 records

EPOCS Project RESEARCHER, DISCOVERER and OCEANOGRAPHER

CURRENT METERS (F015)

Acc: 8700351 Ref: TV0111 - 114 4 stations 31,211 records

University of Alaska

cc: Division Director

ACCESSION NO. 8700194

FILETYPE CTD

TRACK NO. _____

PROJECT IDENTIFICATION _____

F022 TT8286 - TT8291

C022 319723 - 319728

EPOCS
PMEL

STEP	DATE	INIT.	TAPE OR DISK DSN	NO. FILES	LRECL	BLK SIZE
ORIG. TAPE	06/26/87	CUH	A00490	1	80	2400
DUPLICATE TAPE	07/08/87	CUH	W08643*	1	80	2400
REFORMATTED TAPE						
REFORMATTED DISK			EPOCSOUT2.			
FIRST MULCHEK	12/10/87	CB	SELDATA.F022 TT 8286	1	80	71619 REC.
FINAL MULCHEK						
MP075 OR F022	12/11/87	CB	F022 TT 8286/P122.	1	80	71619 REC.
DATA SET FINALIZED	12/11/87	CB				

ERRORS REPORTED TO PRINCIPAL INVESTIGATOR: *

DMODC*8700194-01.
NEEDS CONVERSION

357,503 RECORDS

ADDITIONAL ERRORS/CORRECTIONS (NOT REPORTED TO P.I.)

COMMENTS (TRACKS DELETED, FIELDS DELETED, ETC.)

INVENTORY

Record found

Record 2755 on screen:
170383

DATA ENTRY INFORMATION SYSTEM
(DATASET INVENTORY)

SJH

DATE OF ENTRY: 12/01/87

REFERENCE NUMBER: TT8286

ACCESSION NUMBER: 8700194

FORMER REFERENCE NUMBER:

FORMER ACCESSION NUMBER:

(RESUB ONLY)

INVENTORY

MEDIA-IN: 01 - Digital Magnetic Tape
EXCHANGE (FORMAT): E093 - PMEL CTD
PROCESSING (FORMAT): F022 - CTD/STD

DINDB CODE 09

* NOTE * If data is F022, create an additional record for C022.

INSTITUTE (COUNTRY AND INSTITUTE CODES): 313F

PLATFORM (COUNTRY AND PLATFORM CODES): 3175

PLATFORM TYPE: 9 - Ship

DINDB CODE 09

ORIGINATORS FILE ID:

ORIGINATORS CRUISE ID: EP4-84

CRUISE START DATE: 11/19/84

CRUISE END DATE: 12/11/84

Press PgDn

PROJECT CODE: 0106

DATA USE CODE (DUC): 3

to continue

F2ENTER F3VIEW F4EXIT F5FORM CLR F6FLD CLR F7DELETE F8MODIFY F9REPORT F10MULTI

INVENTORY

VOLUME - NUMBER OF STATIONS: 45

NUMBER OF RECORDS: 14,207

If STA/REC counts are not appropriate then enter -

NUMBER:

UNITS:

AVERAGE REC SIZE:

120

MBYTES:

1.704840

OCEAN AREA

CODE 1:

MEANING:

CODE 2:

MEANING:

CODE 3:

MEANING:

DINDB TRACK TRANSACTION GENERATED: / /

F2ENTER F3VIEW F4EXIT F5FORM CLR F6FLD CLR F7DELETE F8MODIFY F9REPORT F10MULTI

INVENTORY
Record 2757 on screen
170385

Record found

DATA ENTRY INFORMATION SYSTEM
(DATASET INVENTORY)

SJH

DATE OF ENTRY: 12/01/87

REFERENCE NUMBER: TT8287 ACCESSION NUMBER: 8700194
FORMER REFERENCE NUMBER: FORMER ACCESSION NUMBER: (RESUB ONLY)

INVENTORY

MEDIA-IN: 01 - Digital Magnetic Tape DINDB CODE 09
EXCHANGE (FORMAT): E093 - PMEL CTD
PROCESSING (FORMAT): F022 - CTD/STD

* NOTE * If data is F022, create an additional record for C022.

INSTITUTE (COUNTRY AND INSTITUTE CODES): 313F
PLATFORM (COUNTRY AND PLATFORM CODES): 31DB
PLATFORM TYPE: 9 - Ship DINDB CODE 09

ORIGINATORS FILE ID: ORIGINATORS CRUISE ID: EP1-85
CRUISE START DATE: 04/28/85 CRUISE END DATE: 05/10/85 Press PgDn
PROJECT CODE: 0106 DATA USE CODE (DUC): 3 to continue

F2ENTER F3VIEW F4EXIT F5FORM CLR F6FLD CLR F7DELETE F8MODIFY F9REPORT F10MULTI

INVENTORY

VOLUME - NUMBER OF STATIONS: 22 NUMBER OF RECORDS: 2,585

If STA/REC counts are not appropriate then enter -

NUMBER: UNITS:
AVERAGE REC SIZE: 120 MBYTES: 0.310200

OCEAN AREA

CODE 1: MEANING:
CODE 2: MEANING:
CODE 3: MEANING:

DINDB TRACK TRANSACTION GENERATED: / /

F2ENTER F3VIEW F4EXIT F5FORM CLR F6FLD CLR F7DELETE F8MODIFY F9REPORT F10MULTI

INVENTORY
Record 2759 on screen
170387

Record found

DATA ENTRY INFORMATION SYSTEM
(DATASET INVENTORY)

SJH

DATE OF ENTRY: 12/01/87

REFERENCE NUMBER: TT8288 ACCESSION NUMBER: 8700194
FORMER REFERENCE NUMBER: FORMER ACCESSION NUMBER: (RESUB ONLY)

INVENTORY

MEDIA-IN: 01 - Digital Magnetic Tape DINDB CODE 09
EXCHANGE (FORMAT): E093 - PMEL CTD
PROCESSING (FORMAT): F022 - CTD/STD

* NOTE * If data is F022, create an additional record for C022.

INSTITUTE (COUNTRY AND INSTITUTE CODES): 313F
PLATFORM (COUNTRY AND PLATFORM CODES): 31DS
PLATFORM TYPE: 9 - Ship DINDB CODE 09

ORIGINATORS FILE ID: ORIGINATORS CRUISE ID: EP2-85
CRUISE START DATE: 05/28/85 CRUISE END DATE: 06/15/85 Press PgDn
PROJECT CODE: 0106 DATA USE CODE (DUC): 3 to continue

F2ENTER F3VIEW F4EXIT F5FORM CLR F6FLD CLR F7DELETE F8MODIFY F9REPORT F10MULTI

INVENTORY

VOLUME - NUMBER OF STATIONS: 55 NUMBER OF RECORDS: 12,955

If STA/REC counts are not appropriate then enter -

NUMBER: UNITS:
AVERAGE REC SIZE: 120 MBYTES: 1.554600

OCEAN AREA

CODE 1: MEANING:
CODE 2: MEANING:
CODE 3: MEANING:

DINDB TRACK TRANSACTION GENERATED: / /

F2ENTER F3VIEW F4EXIT F5FORM CLR F6FLD CLR F7DELETE F8MODIFY F9REPORT F10MULTI

INVENTORY

170389

DATA ENTRY INFORMATION SYSTEM
(DATASET INVENTORY)

SJH

DATE OF ENTRY: 12/01/87

REFERENCE NUMBER: TT8289 ACCESSION NUMBER: 8700194
FORMER REFERENCE NUMBER: FORMER ACCESSION NUMBER: (RESUB ONLY)

INVENTORY

MEDIA-IN: 01 - Digital Magnetic Tape DINDB CODE 09
EXCHANGE (FORMAT): E093 - PMEL CTD
PROCESSING (FORMAT): F022 - CTD/STD

* NOTE * If data is F022, create an additional record for C022.

INSTITUTE (COUNTRY AND INSTITUTE CODES): 313F
PLATFORM (COUNTRY AND PLATFORM CODES): 3175
PLATFORM TYPE: 9 - Ship DINDB CODE 09

ORIGINATORS FILE ID: ORIGINATORS CRUISE ID: EP3-85
CRUISE START DATE: 09/24/85 CRUISE END DATE: 10/12/85 Press PgDn
PROJECT CODE: 0106 DATA USE CODE (DUC): 3 to continue

F2ENTER F3VIEW F4EXIT F5FORM CLR F6FLD CLR F7DELETE F8MODIFY F9REPORT F10MULTI

INVENTORY

VOLUME - NUMBER OF STATIONS: 32 NUMBER OF RECORDS: 12,968

If STA/REC counts are not appropriate then enter -

NUMBER: UNITS:
AVERAGE REC SIZE: 120 MBYTES: 1.556160

OCEAN AREA

CODE 1: MEANING:
CODE 2: MEANING:
CODE 3: MEANING:

DINDB TRACK TRANSACTION GENERATED: / /

F2ENTER F3VIEW F4EXIT F5FORM CLR F6FLD CLR F7DELETE F8MODIFY F9REPORT F10MULTI

INVENTORY
Record 2763 on screen
170391

Record found

DATA ENTRY INFORMATION SYSTEM
(DATASET INVENTORY)

SJH

DATE OF ENTRY: 12/01/87

REFERENCE NUMBER: TT8290 ACCESSION NUMBER: 8700194
FORMER REFERENCE NUMBER: FORMER ACCESSION NUMBER: (RESUB ONLY)

INVENTORY

MEDIA-IN: 01 - Digital Magnetic Tape DINDB CODE 09
EXCHANGE (FORMAT): E093 - PMEL CTD
PROCESSING (FORMAT): F022 - CTD/STD

* NOTE * If data is F022, create an additional record for C022.

INSTITUTE (COUNTRY AND INSTITUTE CODES): 313F
PLATFORM (COUNTRY AND PLATFORM CODES): 310C
PLATFORM TYPE: 9 - Ship DINDB CODE 09

ORIGINATORS FILE ID: ORIGINATORS CRUISE ID: EP2-86
CRUISE START DATE: 05/24/86 CRUISE END DATE: 06/17/86 Press PgDn
PROJECT CODE: 0106 *May 24, 1986* DATA USE CODE (DUC): 3 to continue

F2ENTER F3VIEW F4EXIT F5FORM CLR F6FLD CLR F7DELETE F8MODIFY F9REPORT F10MULTI

June 17, 1986

INVENTORY

VOLUME - NUMBER OF STATIONS: 54 NUMBER OF RECORDS: 14,644

If STA/REC counts are not appropriate then enter -

NUMBER: UNITS:
AVERAGE REC SIZE: 120 MBYTES: 1.757280

OCEAN AREA

CODE 1: MEANING:
CODE 2: MEANING:
CODE 3: MEANING:

DINDB TRACK TRANSACTION GENERATED: / /

F2ENTER F3VIEW F4EXIT F5FORM CLR F6FLD CLR F7DELETE F8MODIFY F9REPORT F10MULTI

INVENTORY
Record 2765 on screen:
170393

Record found

DATA ENTRY INFORMATION SYSTEM
(DATASET INVENTORY)

SJH

DATE OF ENTRY: 12/01/87

REFERENCE NUMBER: TT8291 ACCESSION NUMBER: 8700194
FORMER REFERENCE NUMBER: FORMER ACCESSION NUMBER: (RESUB ONLY)

INVENTORY

MEDIA-IN: 01 - Digital Magnetic Tape DINDB CODE 09
EXCHANGE (FORMAT): E093 - PMEL CTD
PROCESSING (FORMAT): F022 - CTD/STD

* NOTE * If data is F022, create an additional record for C022.

INSTITUTE (COUNTRY AND INSTITUTE CODES): 313F
PLATFORM (COUNTRY AND PLATFORM CODES): 310C
PLATFORM TYPE: 9 - Ship DINDB CODE 09

ORIGINATORS FILE ID: ORIGINATORS CRUISE ID: EP3/4-86
CRUISE START DATE: 10/27/86 CRUISE END DATE: 12/01/86 Press PgDn
PROJECT CODE: 0106 DATA USE CODE (DUC): 3 to continue

F2ENTER F3VIEW F4EXIT F5FORM CLR F6FLD CLR F7DELETE F8MODIFY F9REPORT F10MULTI

INVENTORY

VOLUME - NUMBER OF STATIONS: 60 NUMBER OF RECORDS: 14,255

If STA/REC counts are not appropriate then enter -

NUMBER: UNITS:
AVERAGE REC SIZE: 120 MBYTES: 1.710600

OCEAN AREA

CODE 1: MEANING:
CODE 2: MEANING:
CODE 3: MEANING:

DINDB TRACK TRANSACTION GENERATED: / /

F2ENTER F3VIEW F4EXIT F5FORM CLR F6FLD CLR F7DELETE F8MODIFY F9REPORT F10MULTI

1598/5-13-87

NOAA FORM 24-5
(8-73)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

TRANSMITTAL AND RECEIPT RECORD
(Please sign and return carbon copy acknowledging receipt)

TO: NOAA/NESDIS/NODC
1825 Connecticut Ave NW
Washington DC 20235

REFER TO
ATTENTION
E/OC13, Dr. Anthony R. Picciolo

THE ITEM(S) LISTED BELOW WERE FORWARDED TO YOU BY

- ORDINARY MAIL
- REGISTERED MAIL
- AIR MAIL
- CERTIFIED MAIL
- GOVERNMENT TRUCK
- BY HAND
- OTHER

Cert. no. 523146

Enclosed, find one (1) magnetic data tape containing 268 stations of EPOCS CTD data and associated documentation as received from Ms. Linda Mangum, NOAA/PMEL.

Field dates - 11/13/84 to 12/1/86

Tape Specs. - 9 track, EBCDIC, odd parity, 1600 bpi, one file of data.

cc: Ms. Linda Mangum NOAA/PMEL

8700194
A00490

FORWARDED BY (Signature)
Sid Stillwaugh

TITLE
NODC Liaison Officer, Seattle

DATE FORWARDED
5-11-87

RECEIVED BY (Signature)
F. Mitchell

TITLE

DATE RECEIVED
5-13-87

159B/5-13-87



U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
ENVIRONMENTAL RESEARCH LABORATORIES
Pacific Marine Environmental Laboratory
NOAA Building Number 3
7600 Sand Point Way N.E.
Seattle, WA 98115

May 8, 1987

R/E/PM

Dr. Anthony R. Picciolo
NOAA/NESDIS/NODC E/OC 31
2001 Wisconsin Ave. N.W.
Washington, D.C. 20235

Dear Dr. Picciolo;

Enclosed is a data tape containing CTD data collected during seven cruises in 1984-1986 as part of NOAA's Equatorial Pacific Ocean Climate Study (EPOCS). The attached documentation should explain the content and organization of the tape. If you have any questions regarding the tape or documentation don't hesitate to contact me.

Sincerely,

A handwritten signature in cursive script that reads "Jean Lynch".

Jean M. Lynch

Enclosures

cc: B. Turnbull
S. Hayes
S. Stillwaugh
B. Taft

8700194
A00490



Cuff - Hall - 075 5456 / 61203A-554

AS.12 / 07/09/57

PRINT TO BE USED AND FUNCTION TO BE PERFORMED

Copy to 'w' tape
Scan 'w' tape

Scan 09

INPUT MEDIUM PER CARD DISK TAPE KETTE OTHER(SPECIFY)	OUTPUT MEDIUM CARD DISK PRINT TAPE PLOT DISKETTE OTHER(SPECIFY)
--	---

DISKETTE INFORMATION

TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# FI
A00490		9	1600	ODD	NZ	FB	80	2400	
SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)			DATA SET NAME				
TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# FI
SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)			DATA SET NAME				
TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# FI
W08643		9	1600	ODD	SL	FB	80	2400	
SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)			DATA SET NAME				
					DMODC* 8700194-01				

SPECIAL INSTRUCTIONS Please send 'w' tape to Asheville, N.C.	ESTIMATED EXECUTION TIME
--	--------------------------------

USE ONLY

DATE JOB COMPLETED	START TIME	END TIME	PRIORITY	DEVICES USED, NUMBER OF TAPE MOUNTS, LINES PRI DISKETTES USED, CARDS PUNCHED, CARDS KEYVERIF
07/08/57	0910	1030	C	COMPLETED by FL

PRINT TO BE USED AND FUNCTION TO BE PERFORMED

Please scan tapes

Bin 09

MEDIUM PER CARD DISK TAPE KETTE OTHER(SPECIFY)	OUTPUT MEDIUM CARD DISK PRINT TAPE PLOT DISKETTE OTHER(SPECIFY)
---	--

DISKETTE INFORMATION

TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# FI	
A00490		9	1600							
SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME				PUR DAT
TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# FI	
SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME				PUR DAT
TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# FI	
SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME				PUR DAT

ADDITIONAL INSTRUCTIONS

Please return tape A00490 to Bin 09

ESTIMATED EXECUTION TIME

USE ONLY

DATE JOB COMPLETED	START TIME	END TIME	PRIORITY	DEVICES USED, NUMBER OF TAPE MOUNTS, LINES PRINTED, DISKETTES USED, CARDS PUNCHED, CARDS KEYVERIFIED
6/26/87	08:45	08:55	C	COMPLETED BY ANDY

INVENTORY
Record 2756 on screen
170384

Record found

DATA ENTRY INFORMATION SYSTEM
(DATASET INVENTORY)

SJH

DATE OF ENTRY: 12/01/87

REFERENCE NUMBER: 319723 ACCESSION NUMBER: 8700194
FORMER REFERENCE NUMBER: FORMER ACCESSION NUMBER: (RESUB ONLY)

INVENTORY

MEDIA-IN: 01 - Digital Magnetic Tape DINDB CODE 09
EXCHANGE (FORMAT): E001 - Low Resolution STD
PROCESSING (FORMAT): C022 - Low Resolution STD (SD2 Format)

* NOTE * If data is F022, create an additional record for C022.

INSTITUTE (COUNTRY AND INSTITUTE CODES): 313F
PLATFORM (COUNTRY AND PLATFORM CODES): 3175
PLATFORM TYPE: 9 - Ship DINDB CODE 09

ORIGINATORS FILE ID: ORIGINATORS CRUISE ID: TT8286
CRUISE START DATE: 11/19/84 CRUISE END DATE: 12/11/84 Press PgDn
PROJECT CODE: 0106 DATA USE CODE (DUC): 3 to continue

F2ENTER F3VIEW F4EXIT F5FORM CLR F6FLD CLR F7DELETE F8MODIFY F9REPORT F10MULTI

INVENTORY

VOLUME - NUMBER OF STATIONS: 45 NUMBER OF RECORDS: 14,207

If STA/REC counts are not appropriate then enter -

NUMBER: UNITS:
AVERAGE REC SIZE: 112 MBYTES: 1.591184

OCEAN AREA

CODE 1: MEANING:
CODE 2: MEANING:
CODE 3: MEANING:

DINDB TRACK TRANSACTION GENERATED: / /

F2ENTER F3VIEW F4EXIT F5FORM CLR F6FLD CLR F7DELETE F8MODIFY F9REPORT F10MULTI

INVENTORY
Record 2758 on screen
170386

Record found

DATA ENTRY INFORMATION SYSTEM
(DATASET INVENTORY)

SJH

DATE OF ENTRY: 12/01/87

REFERENCE NUMBER: 319724 ACCESSION NUMBER: 8700194
FORMER REFERENCE NUMBER: FORMER ACCESSION NUMBER: (RESUB ONLY)

INVENTORY

MEDIA-IN: 01 - Digital Magnetic Tape DINDB CODE 09
EXCHANGE (FORMAT): E001 - Low Resolution STD
PROCESSING (FORMAT): C022 - Low Resolution STD (SD2 Format)

* NOTE * If data is F022, create an additional record for C022.

INSTITUTE (COUNTRY AND INSTITUTE CODES): 313F
PLATFORM (COUNTRY AND PLATFORM CODES): 31DB
PLATFORM TYPE: 9 - Ship DINDB CODE 09

ORIGINATORS FILE ID: ORIGINATORS CRUISE ID: TT8287
CRUISE START DATE: 04/28/85 CRUISE END DATE: 05/10/85 Press PgDn
PROJECT CODE: 0106 DATA USE CODE (DUC): 3 to continue
F2ENTER F3VIEW F4EXIT F5FORM CLR F6FLD CLR F7DELETE F8MODIFY F9REPORT F10MULTI

INVENTORY

VOLUME - NUMBER OF STATIONS: 22 NUMBER OF RECORDS: 2,585

If STA/REC counts are not appropriate then enter -

NUMBER: UNITS:
AVERAGE REC SIZE: 112 MBYTES: 0.289520

OCEAN AREA

CODE 1: MEANING:
CODE 2: MEANING:
CODE 3: MEANING:

DINDB TRACK TRANSACTION GENERATED: / /

F2ENTER F3VIEW F4EXIT F5FORM CLR F6FLD CLR F7DELETE F8MODIFY F9REPORT F10MULTI

INVENTORY
Record 2760 on screen
170388

Record found

DATA ENTRY INFORMATION SYSTEM
(DATASET INVENTORY)

SJH

DATE OF ENTRY: 12/01/87

REFERENCE NUMBER: 319725 ACCESSION NUMBER: 8700194
FORMER REFERENCE NUMBER: FORMER ACCESSION NUMBER: (RESUB ONLY)

INVENTORY

MEDIA-IN: 01 - Digital Magnetic Tape DINDB CODE 09
EXCHANGE (FORMAT): E001 - Low Resolution STD
PROCESSING (FORMAT): C022 - Low Resolution STD (SD2 Format)

* NOTE * If data is F022, create an additional record for C022.

INSTITUTE (COUNTRY AND INSTITUTE CODES): 313F
PLATFORM (COUNTRY AND PLATFORM CODES): 31DB
PLATFORM TYPE: 9 - Ship DINDB CODE 09

ORIGINATORS FILE ID: ORIGINATORS CRUISE ID: TT8288
CRUISE START DATE: 05/28/85 CRUISE END DATE: 06/15/85 Press PgDn
PROJECT CODE: 0106 DATA USE CODE (DUC): 3 to continue

F2ENTER F3VIEW F4EXIT F5FORM CLR F6FLD CLR F7DELETE F8MODIFY F9REPORT F10MULTI

INVENTORY

VOLUME - NUMBER OF STATIONS: 55 NUMBER OF RECORDS: 12,955

If STA/REC counts are not appropriate then enter -

NUMBER: UNITS:
AVERAGE REC SIZE: 112 MBYTES: 1.450960

OCEAN AREA

CODE 1: MEANING:
CODE 2: MEANING:
CODE 3: MEANING:

DINDB TRACK TRANSACTION GENERATED: / /

F2ENTER F3VIEW F4EXIT F5FORM CLR F6FLD CLR F7DELETE F8MODIFY F9REPORT F10MULTI

INVENTORY
Record 2762 on screen
170390

Record found

DATA ENTRY INFORMATION SYSTEM
(DATASET INVENTORY)

SJH

DATE OF ENTRY: 12/01/87

REFERENCE NUMBER: 319726 ACCESSION NUMBER: 8700194
FORMER REFERENCE NUMBER: FORMER ACCESSION NUMBER: (RESUB ONLY)

INVENTORY

MEDIA-IN: 01 - Digital Magnetic Tape DINDB CODE 09
EXCHANGE (FORMAT): E001 - Low Resolution STD
PROCESSING (FORMAT): C022 - Low Resolution STD (SD2 Format)

* NOTE * If data is F022, create an additional record for C022.

INSTITUTE (COUNTRY AND INSTITUTE CODES): 313F
PLATFORM (COUNTRY AND PLATFORM CODES): 3175
PLATFORM TYPE: 9 - Ship DINDB CODE 09

ORIGINATORS FILE ID: ORIGINATORS CRUISE ID: TT8289
CRUISE START DATE: 09/24/85 CRUISE END DATE: 10/12/85 Press PgDn
PROJECT CODE: 0106 DATA USE CODE (DUC): 3 to continue

F2ENTER F3VIEW F4EXIT F5FORM CLR F6FLD CLR F7DELETE F8MODIFY F9REPORT F10MULTI

INVENTORY

VOLUME - NUMBER OF STATIONS: 32 NUMBER OF RECORDS: 12,968

If STA/REC counts are not appropriate then enter -

NUMBER: UNITS:
AVERAGE REC SIZE: 112 MBYTES: 1.452416

OCEAN AREA

CODE 1: MEANING:
CODE 2: MEANING:
CODE 3: MEANING:

DINDB TRACK TRANSACTION GENERATED: / /

F2ENTER F3VIEW F4EXIT F5FORM CLR F6FLD CLR F7DELETE F8MODIFY F9REPORT F10MULTI

INVENTORY
Record 2764 on screen
170392

Record found

DATA ENTRY INFORMATION SYSTEM
(DATASET INVENTORY)

SJH

DATE OF ENTRY: 12/01/87

REFERENCE NUMBER: 319727 ACCESSION NUMBER: 8700194
FORMER REFERENCE NUMBER: FORMER ACCESSION NUMBER: (RESUB ONLY)

INVENTORY

MEDIA-IN: 01 - Digital Magnetic Tape DINDB CODE 09
EXCHANGE (FORMAT): E001 - Low Resolution STD
PROCESSING (FORMAT): C022 - Low Resolution STD (SD2 Format)

* NOTE * If data is F022, create an additional record for C022.

INSTITUTE (COUNTRY AND INSTITUTE CODES): 313F
PLATFORM (COUNTRY AND PLATFORM CODES): 310C
PLATFORM TYPE: 9 - Ship DINDB CODE 09

ORIGINATORS FILE ID: ORIGINATORS CRUISE ID: TT8290
CRUISE START DATE: 05/24/86 CRUISE END DATE: 06/17/86 Press PgDn
PROJECT CODE: 0106 DATA USE CODE (DUC): 3 to continue
F2ENTER F3VIEW F4EXIT F5FORM CLR F6FLD CLR F7DELETE F8MODIFY F9REPORT F10MULTI

INVENTORY

VOLUME - NUMBER OF STATIONS: 54 NUMBER OF RECORDS: 14,644

If STA/REC counts are not appropriate then enter -

NUMBER: UNITS:
AVERAGE REC SIZE: 112 MBYTES: 1.640128

OCEAN AREA

CODE 1: MEANING:
CODE 2: MEANING:
CODE 3: MEANING:

DINDB TRACK TRANSACTION GENERATED: / /

F2ENTER F3VIEW F4EXIT F5FORM CLR F6FLD CLR F7DELETE F8MODIFY F9REPORT F10MULTI

INVENTORY
Record 2766 on screen:
170394

Record found

DATA ENTRY INFORMATION SYSTEM
(DATASET INVENTORY)

SJH

DATE OF ENTRY: 12/01/87

REFERENCE NUMBER: 319728 ACCESSION NUMBER: 8700194
FORMER REFERENCE NUMBER: FORMER ACCESSION NUMBER: (RESUB ONLY)

INVENTORY

MEDIA-IN: 01 - Digital Magnetic Tape DINDB CODE 09
EXCHANGE (FORMAT): E001 - Low Resolution, STD
PROCESSING (FORMAT): C022 - Low Resolution, STD (SD2 Format)

* NOTE * If data is F022, create an additional record for C022.

INSTITUTE (COUNTRY AND INSTITUTE CODES): 313F
PLATFORM (COUNTRY AND PLATFORM CODES): 310C
PLATFORM TYPE: 9 - Ship DINDB CODE 09

ORIGINATORS FILE ID: ORIGINATORS CRUISE ID: TT8291
CRUISE START DATE: 10/27/86 CRUISE END DATE: 12/01/86 Press PgDn
PROJECT CODE: 0106 DATA USE CODE (DUC): 3 to continue
F2ENTER F3VIEW F4EXIT F5FORM CLR F6FLD CLR F7DELETE F8MODIFY F9REPORT F10MULTI

INVENTORY

VOLUME - NUMBER OF STATIONS: 60 NUMBER OF RECORDS: 14,255

If STA/REC counts are not appropriate then enter -

NUMBER: UNITS:
AVERAGE REC SIZE: 112 MBYTES: 1.596560

OCEAN AREA

CODE 1: MEANING:
CODE 2: MEANING:
CODE 3: MEANING:

DINDB TRACK TRANSACTION GENERATED: / /

F2ENTER F3VIEW F4EXIT F5FORM CLR F6FLD CLR F7DELETE F8MODIFY F9REPORT F10MULTI

ACCESSION NO. 8700194

CTD

FILETYPE _____

TRACK NO. _____

PROJECT IDENTIFICATION _____

F022 TT3286 - TT8291

EPOCS

C022 319723 - 319728

PMEL

STEP	DATE	INIT.	TAPE OR DISK DSN	NO. FILES	LRECL	BLK SIZE
ORIG. TAPE	06/26/87	CUMH	H00490	1	80	2400
DUPLICATE TAPE	07/05/87	CUMH	W08643*	1	80	2400
REFORMATTED TAPE						
REFORMATTED DISK						
FIRST MULCHK						
FINAL MULCHK						
MPD75 OR F022						
DATA SET FINALIZED						

ERRORS REPORTED TO PRINCIPAL INVESTIGATOR: *

DNODC*8700194-01
NEEDS CONVERSION

357,503 RECORDS

ADDITIONAL ERRORS/CORRECTIONS (NOT REPORTED TO P.I.)

COMMENTS (TRACKS DELETED, FIELDS DELETED, ETC.)

HANSEN REF. #

319723

MULDARS TRACK #

TT8286

MONITOR: CONTACT

J. Frank

LOCATION OF FD22 SOURCE

Archives (TT8286)

RECORD ALL ERRORS FOUND

CONSEC(S).

ERRORS FOUND

None.

HANSEN REF. #

319724

MULDARS TRACK #

TT8287

MONITOR: CONTACT

J. Frank

LOCATION OF F022 SOURCE

Archives (TT8287)

RECORD ALL ERRORS FOUND

CONSEC(S)

2

ERRORS FOUND

Delete Time

M.A.P.
1/12/88

HANSEN REF. #

319725

MULDARS TRACK #

TT 8288

MONITOR: CONTACT

J. Frank

LOCATION OF F022 SOURCE

Archives (TT 8288)

RECORD ALL ERRORS FOUND

CONSEC(S).

ERRORS FOUND.

None

HAISEN REF. #

319726

MULDARS TRACK #

TT8289

MONITOR: CONTACT

J. Frank

LOCATION OF F022 SOURCE

Archives (TT8289)

RECORD ALL ERRORS FOUND

CONSEC(S).

25 (originally 27)

ERRORS FOUND

Delete Time (10.1 hrs)

[Signature]
1/20/88

NUMBER :

319727

INDICATOR TRACK #

TT 8290

MONITOR: CONTACT

S. Frank

LOCATION OF F022 SOURCE

Archives (TT 8290)

RECORD ALL ERRORS FOUND

CONSEC(S)

ERRORS FOUND

None

Quality Indicators were applied to two stations

NAIEN REF. #

319728

MULDARS TRACK #

TT8291

MONITOR: CONTACT

J. Frank

LOCATION OF F022 SOURCE

Archives (TT8291)

RECORD ALL ERRORS FOUND

CONSEC(S).

3.

ERRORS FOUND

Change Day from 28 to 29

See TT8286

MS
1/12/88

154B/5-13-87



U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
ENVIRONMENTAL RESEARCH LABORATORIES
Pacific Marine Environmental Laboratory
NOAA Building Number 3
7600 Sand Point Way N.E.
Seattle, WA 98115

May 8, 1987

R/E/PM

Dr. Anthony R. Picciolo
NOAA/NESDIS/NODC E/OC 31
2001 Wisconsin Ave. N.W.
Washington, D.C. 20235

Dear Dr. Picciolo;

Enclosed is a data tape containing CTD data collected during seven cruises in 1984-1986 as part of NOAA's Equatorial Pacific Ocean Climate Study (EPOCS). The attached documentation should explain the content and organization of the tape. If you have any questions regarding the tape or documentation don't hesitate to contact me.

Sincerely,

Jean M. Lynch

Enclosures

cc: B. Turnbull
S. Hayes
S: Stillwaugh
B. Taft

8700194
A00490



159¹⁷/5-13-87

NOAA FORM 24-5
(8-73)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

TRANSMITTAL AND RECEIPT RECORD
(Please sign and return carbon copy acknowledging receipt)

TO:
NOAA/NESDIS/NODC
1825 Connecticut Ave NW
Washington DC 20235

REFER TO
ATTENTION
E/OC13, Dr. Anthony R. Picciolo

THE ITEM(S) LISTED BELOW WERE FORWARDED TO YOU BY

- ORDINARY MAIL
- REGISTERED MAIL
- AIR MAIL
- CERTIFIED MAIL
- GOVERNMENT TRUCK
- BY HAND
- OTHER

Cert. no. 523146

Enclosed, find one (1) magnetic data tape containing 268 stations of EPOCS CTD data and associated documentation as received from Ms. Linda Mangum, NOAA/PMEL.

Field dates - 11/13/84 to 12/1/86

Tape Specs. - 9 track, EBCDIC, odd parity, 1600 bpi, one file of data.

cc: Ms. Linda Mangum NOAA/PMEL

8700194
A00490

FORWARDED BY (Signature) Sid Stillwaugh	TITLE NODC Liaison Officer, Seattle	DATE FORWARDED 5-11-87
RECEIVED BY (Signature) F. M. Feeley	TITLE	DATE RECEIVED 5-13-87

Please scan tape

3000

MEDIUM PER CARD DISK TAPE TETTE OTHER(SPECIFY)	OUTPUT MEDIUM CARD DISK PRINT TAPE PLOT DISKETTE OTHER(SPECIFY)
---	--

DISKETTE INFORMATION

TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	#	
A00490		9	1600							
SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME				PU DA
TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	#	
SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME				PU DA
TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	#	
SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME				PU DA

AL INSTRUCTIONS

Please return tape A00490
to Bin 09

ESTIMATED
EXECUTION
TIME

USE ONLY

DATE JOB COMPLETED	START TIME	END TIME	PRIORITY	DEVICES USED, NUMBER OF TAPE MOUNTS, LINES PRINTED, DISKETTES USED, CARDS PUNCHED, CARDS KEYVERIFIED
1/26/87	08:45	08:55	C	COMPLETED BY HAND

THIS TO BE USED AND FUNCTION TO BE PERFORMED

07/09/87

Copy to W tape
Scan W tape

Page 09

INPUT MEDIUM PER CARD DISK TAPE KETTE OTHER(SPECIFY)	OUTPUT MEDIUM CARD DISK PRINT TAPE PLOT DISKETTE OTHER(SPECIFY)
--	---

DISKETTE INFORMATION

TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	#
A00490		9	1600	ODD	N2	FB	80	2400	
SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII <u>EBCDIC</u> BCD SDF OTHER(SPECIFY)			DATA SET NAME				
TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	#
		9	1600	ODD	SL	FB	80	2400	
SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)			DATA SET NAME file				
TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	#
W18643		9	1600	ODD	SL	FB	80	2400	
SECTOR SIZE	EXCHANGE TYPE	CODE: <u>ASCII</u> EBCDIC BCD SDF OTHER(SPECIFY)			DATA SET NAME DINODC* 8700194-01				

ADDITIONAL INSTRUCTIONS

Please send W tape to Asheville, N.C.

ESTIMATED EXECUTION TIME

USE ONLY

DATE JOB COMPLETED	START TIME	END TIME	PRIORITY	DEVICES USED, NUMBER OF TAPE MOUNTS, LINES PRI DISKETTES USED, CARDS PUNCHED, CARDS KEYVERIF
07/08/87	0910	1030	C	COMPLETED by FL

Password:

accNo	fileA	refNo	proj	inst	ship	startDate	cruise	catId
8700194	C022	319723	0106	313F	3175	1984/11/19	TT8286	170043
8700194	C022	319726	0106	313F	3175	1985/09/24	TT8289	170046
8700194	F022	TT8286	0106	313F	3175	1984/11/19	EP4-84	170049
8700194	F022	TT8289	0106	313F	3175	1985/09/24	EP3-85	170052
8700194	C022	319724	0106	313F	31DS	1985/04/28	TT8287	170044
8700194	C022	319725	0106	313F	31DS	1985/05/28	TT8288	170045
8700194	F022	TT8287	0106	313F	31DS	1985/04/28	EP1-85	170050
8700194	F022	TT8288	0106	313F	31DS	1985/05/28	EP2-85	170051
8700194	C022	319727	0106	313F	31OC	1986/05/24	TT8290	170047
8700194	C022	319728	0106	313F	31OC	1986/10/27	TT8291	170048
8700194	F022	TT8290	0106	313F	31OC	1986/05/24	EP2-86	170053
8700194	F022	TT8291	0106	313F	31OC	1986/10/27	EP3/4-86	170054

(12 rows affected)

Password:

accNo	fleA	refNo	ship	staCnt	recCnt	startDate	endDate
8700194	C022	319723	3175	45	82	84/11/19	84/12/11
8700194	C022	319726	3175	32	65	85/09/24	85/10/12
8700194	F022	TT8286	3175	45	14207	84/11/19	84/12/11
8700194	F022	TT8289	3175	32	12968	85/09/24	85/10/12
8700194	C022	319724	31DS	22	37	85/04/28	85/05/10
8700194	C022	319725	31DS	55	103	85/05/28	85/06/15
8700194	F022	TT8287	31DS	22	2585	85/04/28	85/05/10
8700194	F022	TT8288	31DS	55	12955	85/05/28	85/06/15
8700194	C022	319727	31OC	54	94	86/05/24	86/06/17
8700194	C022	319728	31OC	60	112	86/10/27	86/12/01
8700194	F022	TT8290	31OC	54	14644	86/05/24	86/06/17
8700194	F022	TT8291	31OC	60	14255	86/10/27	86/12/01

(12 rows affected)