

DDF B: 3.13 DATA DOCUMENTATION FORM

TR1430

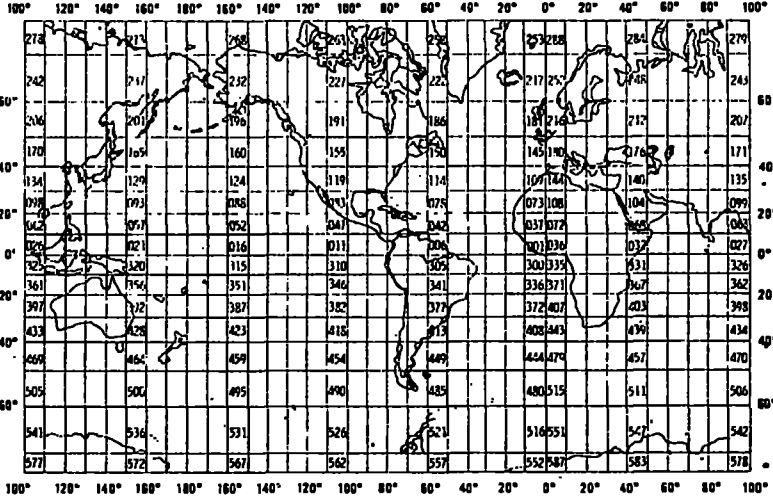
A FORM 24-13
(4-72)U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEANOGRAPHIC DATA CENTER
RECORDS SECTION
ROCKVILLE, MARYLAND 20852FORM APPROVED
O.M.B. No. 41-R2651

F004

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 Hopkins Marine Station of Stanford University Pacific Grove, California 93950 | | | |
| 2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED California Cooperative Oceanic Fisheries Investigations (CALCOFI) | | 3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT | |
| 4. PLATFORM NAME(S) TAGE | 5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.) Ship | 6. PLATFORM AND OPERATOR NATIONALITY(IES) U.S. | 7. DATES FROM: MO/DAY/YR TO: MO/DAY/YR 01/04/68 12/04/68 |
| 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 checked="" 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) | | | |

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 |
|--------------------|----------------------------|--|--|---|
| Temperature | ° Celcius | Reversing Thermometers | | |
| Salinity | ‰ | | | |
| Sigma-t | | Table for Sea Water Density 1952 H.O. Pub. 615 | | |
| Oxygen | ML/L | Winkler Method | Carpenter Modification | |
| Nitrite | microgram-at/l | Titration | Strickland & Parsons 1960 | |
| Silicate | " " | " | " " | |
| Phosphate | " " | " | " " | |

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

FILE HEADER RECORD - "1" in col. 10
FIRST STATION HEADER RECORD - "2" in col. 10
SECOND STATION HEADER RECORD - "3" in col. 10
DATA RECORDS - "4" in col. 10

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

3. TRIBUTES AS EXPRESSED IN ☐ PL-1 ☐ ALGOL ☐ COBOL
☒ FORTRAN ☐ LANGUAGE

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER

ADDRESS

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>9. LENGTH OF INTER-RECORD GAP (IF KNOWN) <input checked="" type="checkbox"/> 3/4 INCH</p> |
| <p>6. NUMBER OF TRACKS (CHANNELS)</p> <p><input type="checkbox"/> SEVEN</p> <p><input checked="" type="checkbox"/> NINE</p> | <p>10. END OF FILE MARK</p> <p><input type="checkbox"/> OCTAL 17</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 LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)</p> <p>Data on tape is in card image dcb = (recfm+fb,lrecl*80,blksize=3200) DSN = AC <u>710603</u>, vol=ser= <u>012756</u></p> <p>9 Track tape; Standard Label.</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>12. PHYSICAL BLOCK LENGTH IN BYTES</p> <p>3200</p> <p>13. LENGTH OF BYTES IN BITS</p> <p>8</p> |

RECORD FORMAT DESCRIPTION

FILE NAME: WATER PHYSICS and CHEMISTRY (File Type "004")

1/5

| 14. FIELD NAME | 15. POSITION FROM - 1 MEASURED IN (e.g., bits, bytes) | 16. LENGTH in bytes NUMBER | 17. ATTRIBUTES (FORTRAN) | 18. USE AND MEANING |
|---------------------------|---|----------------------------------|-----------------------------|---|
| <u>File Header Record</u> | | | | |
| File Type | 1 | 3 | A3 | "004" (constant) |
| Track Number | 4 | 6 | 6A1 | NODC (in-house) Identifier |
| Record Type | 10 | 1 | A1 | "1" (File Header Record) |
| Vessel | 11 | 11 | 11A1 | (left aligned) |
| Cruise | 22 | 6 | 6A1 | Originator's Cruise Identifier |
| Cruise Dates | 28 | 17 | 5(I2,A1) I2 | XX/XX/XX-XX/XX/XX Beginning Month, Day, Year; Ending Month, Day, Year |
| Senior Scientist | 45 | 19 | 19A1 | (left aligned) |
| Investigator | 64 | 17 | 17A1 | Responsible Institution (left aligned) |

RECORD FORMAT DESCRIPTION

FILE NAME: WATER PHYSICS and CHEMISTRY (File Type "004")

2 / 5

| 14. FIELD NAME | 15. POSITION FROM -1 MEASURED IN (c.g., bits; bytes) | 16. LENGTH in bytes NUMBER | 17. ATTRIBUTES (FORTRAN) | 18. USE AND MEANING |
|------------------------------------|---|-------------------------------|--------------------------|---|
| <u>First Station Header Record</u> | | | | |
| File Type | 1 | 3 | A3 | "004" (constant) |
| Track Number | 4 | 6 | 6A1 | NODC (in-house) Identifier |
| Record Type | 10 | 1 | A1 | "2" (First Station Header Record) |
| Sequence | 11 | 3 | I2 | Sequence of this record type within station. (Leading zeros or leading blanks.) |
| Station | 14 | 5 | 5A1 | Station Identifier |
| Latitude | 19 | 6 | 3I2 | Degrees, Minutes, Seconds |
| Lathem | 25 | 1 | A1 | Hemisphere "N" or "S" |
| Longitude | 26 | 7 | I3, 2I2 | Degrees, Minutes, Seconds |
| hem | 33 | 1 | A1 | Hemisphere "W" or "E" |
| Time | 34 | 3 | I3 | GMT in hour to tenths |
| Date | 37 | 8 | 2(I2,A1), I2 | XX/XX/XX Station Date; Month, Day, Year |
| Bottom | 45 | 5 | I5 | Water Depth, meters to tenths |
| Navigation | 50 | 2 | I2 | (See attached codes) |
| Method | 52 | 1 | I1 | (See attached codes) |
| Blank | 53 | 28 | 28X | Blank |

RECORD FORMAT DESCRIPTION

FILE NAME: WATER PHYSICS and CHEMISTRY (File Type "004")

3 / 5

| 14. FIELD NAME | 15. POSITION FROM - 1 MEASURED IN (e.g., bits, bytes) | 16. LENGTH in bytes | | 17. ATTRIBUTES (FORTRAN) | 18. USE AND MEANING |
|-------------------------------------|---|------------------------|-----|---|---------------------|
| | | NUMBER | | | |
| <u>Second Station Header Record</u> | | | | | |
| File Type | 1 | 3 | A3 | "004" (constant) | |
| Track Number | 4 | 6 | 6A1 | NODC (in-house) Identifier | |
| Record Type | 10 | 1 | A1 | "3" (Second Station Header Record) | |
| Sequence | 11 | 3 | I3 | Sequence of this record type within station. (Leading zeros or leading blanks.) | |
| Station | 14 | 5 | 5A1 | Station Identifier | |
| Barometer | 19 | 3 | I3 | Pressure in millibars to tenths | |
| Dry Bulb | 22 | 4 | I4 | Air temperature; degrees Celsius to tenths | |
| Wet Bulb | 26 | 4 | I4 | Air temperature; degrees Celsius to tenths | |
| Wind Direction | 30 | 2 | I2 | WMO code 0877; tens of degrees | |
| Wind Speed | 32 | 2 | I2 | Knots | |
| Sea Direction | 34 | 2 | I2 | WMO code 0885; tens of degrees | |
| Sea Height | 36 | 1 | A1 | WMO code 1555 | |
| Swell Direction | 37 | 2 | I2 | WMO code 0885 | |
| Swell Height | 39 | 1 | A1 | WMO code 1555 | |
| Weather | 40 | 1 | I1 | WMO code 4501 | |
| Cloud Type | 41 | 1 | A1 | WMO code 0500 | |
| Cloud Cover | 42 | 1 | I1 | WMO code 2700 | |
| Visibility | 43 | 1 | I1 | WMO code 4300 | |
| Transparency | 44 | 4 | I4 | Secchi Disk Depth; meters to tenths | |
| Turbidity Code | 48 | 1 | I1 | (See attached codes) | |
| Blank | 49 | 37 | 37X | Blank | |

RECORD FORMAT DESCRIPTION

FILE NAME: WATER PHYSICS and CHEMISTRY (File Type "004")

4 / 5

| 14. FIELD NAME | 15. POSITION FROM - 1 MEASURED IN (e.g., bits, bytes) | 16. LENGTH in bytes | | 17. ATTRIBUTES (FORTRAN) | 18. USE AND MEANING |
|--------------------|---|------------------------|-----|-----------------------------|---|
| | | NUMBER | | | |
| <u>Data Record</u> | | | | | |
| File Type | 1 | 3 | A3 | | "004" (constant) |
| Track Number | 4 | 6 | 6A1 | | NODC (in-house) Identifier |
| Record Type | 10 | 1 | A1 | | "4" (Data Record) |
| Sequence | 11 | 3 | I3 | | Sequence of this record type within station. (Leading zeros or leading blanks,) |
| Station | 14 | 5 | 5A1 | | Station Identifier |
| Depth | 19 | 4 | I4 | | Sample Depth; to tenths |
| Temperature | 23 | 5 | I5 | | Water Temp.; degrees Celsius to thousandths |
| Salinity | 28 | 5 | I5 | | Salinity; parts per thousand to thousandths |
| Sigma-T | 33 | 4 | I4 | | Sigma-t to hundredths |
| Transmissivity | 37 | 3 | I3 | | Transmissivity; percent to tenths |
| pH | 40 | 3 | I3 | | pH to hundredths |
| eH | 43 | 4 | I4 | | eH to hundredths |
| Oxygen | 47 | 4 | I4 | | Dissolved; hundredths to ml./liter |
| Ammonia | 51 | 3 | I3 | | Tenths of microgram (ug)-atoms/liter |
| Nitrite | 54 | 3 | I3 | | Hundredths of ug-atoms/liter |
| Nitrate | 57 | 4 | I4 | | Hundredths of ug-atoms/liter |
| Silicate | 61 | 4 | I4 | | Hundredths of ug-atoms/liter |
| Phosphate | 65 | 3 | I3 | | Inorganic; hundredths of ug-atoms/liter |
| Solids | 68 | 4 | I4 | | Suspended solids in hundredths of mg./liter |

RECORD FORMAT DESCRIPTION

FILE NAME: WATER PHYSICS and CHEMISTRY (File Type "004")

5 / 5

| 14. FIELD NAME | 15. POSITION FROM -1 MEASURED IN (e.g., bits, bytes) | 16. LENGTH in bytes NUMBER | 17. ATTRIBUTES (FORTRAN) | 18. USE AND MEANING |
|-----------------------------|---|-------------------------------|--------------------------|--|
| <u>Data Record (cont'd)</u> | | | | |
| Turbidity | 72 | 4 | I4 | Turbidity; in hundredths of mg./liter |
| Chlorophyll | 76 | 5 | I5 | Chlorophyll; in hundredths of mg./meter ³ |

Water Physics and Chemistry

NAVIGATION

- 01 = Loran (mixed or unspecified)
- 02 = Radar and/or fixes
- 03 = Raydist without complications
- 04 = Raydist with errors, drifting, etc.
- 05 = Satellite
- 06 = Omega
- 07 = Loran A only
- 08 = Loran C only

TURBIDITY CODE

- 1 = Turbidometer; in JTU
- 2 = Transmissometer; in percent of light transmission over a 10 cm. path.
- 3 = Fluorometer; suspended solids calibration

METHOD CODE

- 1 = STD (Salinity, Temperature, and Depth recorder)
- 2 = XBT (Expendable Bathythermograph)
- 3 = Nansen Cast
- 4 = MBT (Mechanical Bathythermograph)

TR 1430

CODING INSTRUCTIONS

NODC COUNTRY-CRUISE REFERENCE NO. 71-0603, WRITER LWA DATE _____

CHECKED BY _____ DATE _____; APPROVED BY _____ DATE _____

SOURCE MATERIAL (AUTHOR, TITLE, VOLUME, PART, PAGE, ETC.)

CalCOFI Hydrographic Data Annual Report of 1968 from Hopkins Marine Station of Stanford University. The entire data batch - 71-0603 - consists of one (1) sub-data set (1 cruise) containing 195 observations. The data is a series of observations taken at six (6) specific locations. The positions for these locations are recorded on a supplemental sheet. The vessel remains the same throughout the cruise as the TAGE. The stations are recorded in chronological order up until 25 April 1968 (pg. #6). From that point and to the end of the cruise, the following procedure should be employed for station #3 only. Information for the first and second Station Header Records should continue to be coded as given on pages 6 through 21. However, the Data Record information is to be coded from pages 22 through 25. Data Record information for station #3 on pages 6 through 21 should be ignored.

NODC PUB. M-2 _____ IS TO BE USED IN CONJUNCTION WITH THESE INSTRUCTIONS

(General instructions begin on Page 2)

| INSTR. NO. | SPECIAL INSTRUCTIONS |
|------------|---|
| #1 | <u>If any entry is made in any field on the Data Record, and that entry does not fill the entire field, zeros (0) should be prefixed to fill that particular field. If no entry is made, leave field blank.</u> |
| #2 | <u>Do not code decimal points. They are understood.</u> |
| | |
| | |
| | |
| | |

4 January 1968

Hour
0840 - 1219

| Station No. | | 1 | 2 | 3 | 4 | 5 | 6 | Mean |
|--------------------------------|-----------|---------------|------------|------------|------------|------------|------------|-------|
| Observation | Depth (m) | | | | | | | |
| Weather and Surface Conditions | | | | | | | | |
| Wind D | | 3 | 2 | 2 | 2 | 2 | 2 | |
| Weather | | 2 | 2 | 2 | 2 | 2 | 2 | |
| Barom | | 30.38 | 30.38 | 30.38 | 30.38 | 30.34 | 30.30 | |
| Wind F | | 1 | 3 | 4 | 3 | 1 | 1 | |
| Cloud T | | 0 | 0 | 0 | 0 | 0 | 0 | |
| Cl Cover | | 0 | 0 | 0 | 0 | 0 | 0 | |
| Visib | | 25 | 20 | 20 | 20 | 10 | 15 | |
| Sea Ht | | 1 | 3 | 4 | 3 | 2 | 1 | |
| Sw Ht | | 1 | 3 | 3 | 3 | 2 | 2 | |
| Sw D | | 7 | 7 | 7 | 7 | 6 | 6 | |
| Hydrographic Observations | | | | | | | | |
| RT | 0 } DEPTH | Temp 11.59 | Temp 11.57 | Temp 11.75 | Temp 11.46 | Temp 11.45 | Temp 11.38 | 11.53 |
| | 15 | 11.58 | 11.60 | 11.77 | 11.45 | 11.43 | 11.02 | 11.48 |
| BT | 0 | 11.7 | 11.6 | 11.8 | 11.5 | 11.6 | 11.3 | 11.62 |
| | 15 | 11.7 | 11.6 | 11.8 | 11.5 | 11.6 | 11.4 | 11.60 |
| | 20 | 11.6 | 11.6 | 11.8 | 11.4 | 11.6 | 11.3 | 11.55 |
| | 30 | 11.4 | 11.6 | 11.7 | 11.4 | -- | 11.2 | 11.46 |
| | 40 | -- | 11.5 | 11.3 | 11.1 | -- | 11.1 | 11.33 |
| | 50 | Salinity 11.2 | 11.1 | 11.1 | 11.1 | -- | 11.0 | 11.10 |
| Sal | 0 | 33.30 | 33.28 | 33.26 | 33.53 | 33.35 | 33.58 | 33.38 |
| | 15 DEPTH | 33.44 | 33.33 | 33.44 | 33.48 | 33.37 | 33.49 | 33.46 |
| Sigma-t | 0 | 25.37 | 25.36 | 25.31 | 25.57 | 25.43 | 25.62 | 25.41 |
| | 15 DEPTH | 25.48 | 25.39 | 25.44 | 25.53 | 25.45 | 25.61 | 25.48 |

OBSERVATION
SAMPLE

12 January 1968

0830 - 1205

Weather and Surface Conditions

| | | | | | | |
|----------|-------|-------|-------|-------|-------|-------|
| Wind D | 0 | 2 | 2 | 2 | 2 | 2 |
| Weather | 2 | 2 | 2 | 2 | 2 | 1 |
| Barom | 30.20 | 30.20 | 30.20 | 30.20 | 30.20 | 30.18 |
| Wind F | 0 | 3 | 3 | 2 | 1 | 3 |
| Cloud T | 1 | 2 | 2 | 2 | 2 | 6 |
| Cl Cover | 1 | 1 | 1 | 1 | 2 | 5 |
| Visib | 25 | 25 | 25 | 25 | 25 | 25 |
| Sea Ht | 1 | 2 | 3 | 2 | 1 | 1 |
| Sw Ht | 1 | 2 | 2 | 2 | 1 | 1 |
| Sw D | 7 | 7 | 7 | 7 | 6 | 6 |

Hydrographic Observations

| | | | | | | | | |
|---------|----|-------|-------|-------|-------|-------|-------|-------|
| RT | 0 | 12.07 | 12.03 | 12.08 | 11.94 | 11.02 | 11.93 | 11.85 |
| | 15 | 11.71 | 12.06 | 12.07 | 11.93 | 11.10 | 11.69 | 11.76 |
| BT | 0 | 12.2 | 12.2 | 12.3 | 12.1 | 11.3 | 12.0 | 12.02 |
| | 15 | 12.2 | 12.2 | 12.3 | 12.1 | 11.3 | 11.7 | 11.97 |
| | 20 | 12.2 | 12.2 | 12.2 | 12.1 | 11.3 | 11.6 | 11.93 |
| | 30 | 12.1 | 12.2 | 12.2 | 12.0 | -- | 11.3 | 11.96 |
| | 40 | -- | 12.2 | 12.1 | 11.7 | -- | 11.2 | 11.85 |
| | 50 | -- | 12.2 | 12.0 | 11.9 | -- | 11.2 | 11.83 |
| Sal | 0 | 33.40 | 33.39 | 33.40 | 33.44 | 33.39 | 33.44 | 33.41 |
| | 15 | 33.42 | 33.40 | 33.37 | 33.39 | 33.39 | 33.42 | 33.40 |
| Sigma-t | 0 | 25.36 | 25.36 | 25.36 | 25.41 | 25.54 | 25.41 | 25.41 |
| | 15 | 25.79 | 25.36 | 25.34 | 25.39 | 25.40 | 25.42 | 25.41 |

Supplemental Sheet for 71-0603

| <u>Acces. No.</u> | <u>Vessel</u> | <u>Org. Cruise No.</u> | <u>Dates</u> | <u># Obs.</u> | <u>Institution</u> |
|-------------------|---------------|------------------------|-------------------|---------------|--------------------|
| 71-0603 | TAGE | leave blank | 01/04/68-12/04/68 | 195 | Stanford Univ. |

Positional Information for Observations

| <u>Station No.</u> | <u>Latitude</u> | <u>Longitude</u> |
|--------------------|-----------------|------------------|
| 1 | 36°37'36"N | 121°53'36"W |
| 2 | 36°41'42"N | 121°57'12"W |
| 3 | 36°46'18"N | 122°01'00"W |
| 4 | 36°51'42"N | 122°00'00"W |
| 5 | 36°56'48"N | 121°59'12"W |
| 6 | 36°52'12"N | 121°55'12"W |

CODING INSTRUCTIONS FOR CRUISE NO. 71-0603

First - Station
Header Record

| ITEM | CARD COL. NO. | M-2 TABLE NO. | INSTRUCTIONS |
|------------------|------------------|------------------|--|
| File Type | 1-3 | ----- | Constant entry of "004" |
| Acces. Number | 4-9 | ----- | Enter "710603" on each Station Header Record |
| Record Type | 10 | ----- | Constant entry of "2" |
| Record Seq. | 11-13 | ----- | Constant entry of "001" |
| Org. Sta. No. | 14-18 | ----- | Enter as given for each respective station (Right justified) |
| Lati- tude | 19-24 | ----- | Enter as given for each respective station as supplied on supplemental sheet |
| Hemi- sphere | 25 | ----- | Enter "N" throughout entire data set |
| Longi- tude | 26-32 | ----- | Enter as given for each respective station as supplied on supplemental sheet |
| Hemi- sphere | 33 | ----- | Enter "W" throughout entire data set |
| Time (GMT) | 34-36 | Tables #2&4 | Two hours (beginning and ending) are given for each station. Encode the earliest hour. Hours are given in (PST) Pacific Standard Time as and must be converted to (GMT) Greenwich Mean Time using table #4. In addition, table #2 should be used to convert minutes to tenths of minutes |
| Station Date | 37-44 | ----- | Enter as given, except where conversion to GMT changes the day. Convert month to numeric code (e.g., Jan=01, Feb=02, etc.) |
| Water Depth | 45-49 | ----- | Leave blank |
| Naviga- tion | 50-51 | ----- | Enter "01" |
| Method | 52 | ----- | Enter "3" |
| | 53-80 | ----- | Leave blank |
| | | | |
| | | | |
| | | | |

CODING INSTRUCTIONS FOR CRUISE NO. 71-0603

Second - Station
Header Record

| ITEM | CARD COL. NO. | M-2 TABLE NO. | INSTRUCTIONS |
|----------------|---------------|---------------|--|
| File Type | 1-3 | ----- | Constant entry of "004" |
| Access. Number | 4-9 | ----- | Enter "710603" on each Station Header Record |
| Record Type | 10 | ----- | Constant entry of "3" |
| Record Seq. | 11-18 | ----- | Constant entry of "001" |
| Org. Sta. No. | 14-18 | ----- | Enter as given for each respective station (Right justified) |
| Bar. Pres. | 19-21 | Table #18 | Use table #18 to convert Bar. Pressure from inches to millibars. Bar. Pressure values are recorded adjacent to "BAROM" |
| Air Temp. | 22-29 | ----- | Leave blank |
| Wind Dir. | 30-31 | ----- | Wind Direction is recorded adjacent to "Wind D" in a single numeric code. Use the following conversion: |
| | | | Wind D given as then code |
| | | | 0 = 00 |
| | | | 1 = 36 |
| | | | 2 = 04 |
| | | | 3 = 09 |
| | | | 4 = 14 |
| | | | 5 = 18 |
| | | | 6 = 22 |
| | | | 7 = 27 |
| | | | 8 = 32 |
| Wind Speed | 32-33 | ----- | Wind Speed is recorded adjacent to "Wind F" in a single digit numeric code ranging from 0-5. Use the following conversion: |
| | | | Wind F given as then code |
| | | | 0 = 00 |
| | | | 1 = 03 |
| | | | 2 = 06 |
| | | | 3 = 10 |
| | | | 4 = 16 |
| | | | 5 = 21 |
| Sea Dir. | 34-35 | ----- | Leave blank |

CODING INSTRUCTIONS FOR CRUISE NO. 71-0603

Second - Station
Header Record (cont'd)

| ITEM | CARD COL. NO. | M-2 TABLE NO. | INSTRUCTIONS |
|-----------------|---------------|---------------|--|
| Sea Height | 36 | Table #6 | Sea Height is recorded adjacent to "Sea HT" in feet. Use table #6 to convert feet to whole meters |
| Swell Dir. | 37-38 | ----- | Swell Direction is recorded adjacent to "SW D" in a single digit numeric code. Use the same conversion table as given under "Wind Direction" |
| Swell Height | 39 | Table #6 | Swell Height is recorded adjacent to "SW HT" in feet. Use table #6 to convert feet to whole meters |
| Weather | 40 | ----- | Leave blank |
| Cloud Type | 41 | ----- | Cloud is found adjacent to "Cloud T" and should be converted using the following code: |
| | | | if cloud type given as then code |
| | | | 0 = 7 |
| | | | 1 = 0 |
| | | | 2 = 2 |
| | | | 3 = 1 |
| | | | 4 = 3 |
| | | | 5 = 4 |
| | | | 6 = 6 |
| | | | 8 = 8 |
| | | | 9 = 9 |
| Cloud Amt. | 42 | Table #26 | Cloud Amount is recorded adjacent to "CL Cover" and is recorded in tenths. Use table #26 to convert to eighths (EX. CL=3, then code 2) |
| Visibil-ity | 43 | Table #27 | Visibility is recorded adjacent to "Visib." in miles. Use table #27 for necessary conversion codes |
| Trans-parency | 44-47 | ----- | Transparency is recorded adjacent to "Secchi Disk" in meters and tenths of meters. Enter as given. Prefix necessary zeros to fill the field |
| Turbidi-ty Code | 48 | ----- | Leave blank |
| | 49-80 | ----- | Leave blank |

CODING INSTRUCTIONS FOR CRUISE NO. 71-0603*Data Record*

| ITEM | CARD COL. NO. | M-2 TABLE NO. | INSTRUCTIONS |
|---------------|---------------|---------------|---|
| File Type | 1-3 | ----- | Cons Constant entry of "004" |
| Acces. Number | 4-9 | ----- | Enter "710603" on each Data Record |
| Record Type | 10 | ----- | Constant entry of "4" |
| Record Seq. | 11-13 | ----- | Enter "001" on first Data Record and no. subsequent Data Record consecutively (e.g., 001; 002; 003; etc.) |
| Org. Sta. No. | 14-18 | ----- | Enter as given (Right justified). Prefix necessary zeros to fill the field. |
| Depth | 19-22 | ----- | Enter as given. Depth is recorded directly under "Depth(m)." Prefix zeros |
| Temperature | 23-27 | ----- | Temperatures are recorded adjacent to "RT." Enter as given |
| Salinity | 28-32 | ----- | Salinity is recorded adjacent to "SAL." Enter as given |
| Sigma-t | 33-36 | ----- | Sigma-t is recorded adjacent to "Sigma-t." Enter as given |
| | 37-46 | ----- | Leave blank |
| Oxygen | 47-50 | ----- | Oxygen is recorded adjacent to ".02." Enter as given; prefix necessary zeros |
| | 51-53 | ----- | Leave blank |
| Nitrite | 54-56 | ----- | Nitrite is recorded adjacent to "Nitrite." Enter as given; prefix zeros |
| | 57-60 | ----- | Leave blank |
| Silicate | 61-64 | ----- | Enter as given; prefix zeros |
| Phosphate | 65-67 | ----- | Phosphate is recorded adjacent to "PO4." Enter as given; prefix zeros |
| | 68-80 | ----- | Leave blank |
| | | | |
| | | | |
| | | | |

Password:

| accNo | fleA | refNo | ship | staCnt | recCnt | startDate | endDate |
|---------|------|--------|------|--------|--------|------------|------------|
| 7100603 | C128 | BL0553 | 31TA | 188 | 0 | Jan 1 1968 | Dec 1 1968 |

(1 row affected)

Program error

petro.exe has generated errors and will be
closed by windows

You need to restart the program

An error log is being created

OK

(X) Sorry, a communication error has occurred with
Intelligent Scanning Technology component.
If this problem continues, please reinstall
Scanning Software

OK

Password:

| accNo | fleA | refNo | ship | staCnt | recCnt | startDate | endDate |
|---------|------|--------|------|--------|--------|------------|------------|
| 7100603 | F004 | TR1430 | 31TA | 191 | 968 | Jan 4 1968 | Dec 4 1968 |

(1 row affected)

•Password:

| accNo | fileA | refNo | proj | inst | ship | startDate | cruise | catId |
|---------|-------|--------|------|------|------|------------|--------|-------|
| 7100603 | C128 | BL0553 | 0033 | 3116 | 31TA | 1968/01/01 | NULL | 15084 |
| 7100603 | F004 | TR1430 | 0033 | 3116 | 31TA | 1968/01/04 | NULL | 15085 |

(2 rows affected)

Password:

| accNo | fleA | refNo | ship | staCnt | recCnt | startDate | endDate |
|---------|------|--------|------|--------|--------|-----------|----------|
| 7100603 | C128 | BL0553 | 31TA | 188 | NULL | 68/01/01 | 68/12/01 |
| 7100603 | F004 | TR1430 | 31TA | 191 | 968 | 68/01/04 | 68/12/04 |

(2 rows affected)