

F156

TT9253-9255

NUMBER

8600398

AOML

## DATA DOCUMENTATION FORM

NOAA FORM 24-13  
(4-77)U.S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEANOGRAPHIC DATA CENTER  
RECORDS SECTION  
WASHINGTON, DC 20238FORM 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<br><b>Donald Hansen</b><br><b>U.S. DOC NOAA ERL AOML</b><br><b>Miami, Florida</b>   |  |   |   |
| 2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED<br><b>EPOCS</b>  |  | 3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT<br><b>N/A</b>                                      |   |
| 4. PLATFORM NAME(S)<br><b>N/A</b>  | 5. PLATFORM TYPE(S)<br>(E.G., SHIP, BUOY, ETC.)<br><b>BUOY</b> | 6. PLATFORM AND OPERATOR<br>NATIONALITY(IES)<br>PLATFORM OPERATOR<br><b>ARGOS USA</b>                                       | 7. DATES<br>FROM: MO, DAY, YR TO: MO, DAY, YR |
| 8. ARE DATA PROPRIETARY?<br><input type="checkbox"/> NO <input type="checkbox"/> YES<br>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.<br><b>GENERAL AREA</b> |   |
| 9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)?<br>(I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?)<br><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)<br><b>Donald Hansen</b>   |  |   |   |

|                    |                  |                   |           |
|--------------------|------------------|-------------------|-----------|
| DATE<br>March 1984 | NODC Users Guide | SECTION<br>4.1.20 | PAGE<br>3 |
|--------------------|------------------|-------------------|-----------|

### File structure -

Five 80-character records: (1) Header Record, (2) Launch Summary Record, (3) Data Record, (4) Subsurface Record, and (5) Text Record. Note: This file format supersedes File Format 056; investigators should report new data in this format.

### File format -

#### Lagrangian Current Measurements (F156)

| PARAMETER              | DESCRIPTION  | SC |
|------------------------|--|----|
| HEADER RECORD          | ALWAYS 'A'   | 10 |
| DROGUE NUMBER          | FIVE-CHARACTER FIELD ASSIGNED BY INVESTIGATOR - ANALOGOUS TO STATION NUMBER              | 11 |
| DROGUE TYPE            | FIVE CHARACTER FIELD FOR INDICATING TYPE OF DROGUE - DETERMINED BY INVESTIGATOR          | 16 |
| PRINCIPAL INVESTIGATOR | 15-CHARACTER FIELD FOR NAME OF PRINCIPAL INVESTIGATOR                                    | 21 |
| INSTITUTION OR AGENCY  | 15-CHARACTER FIELD FOR NAME OF INSTITUTION OR AGENCY                                     | 36 |
| PLATFORM NAME          | 12-CHARACTER FIELD FOR NAME OF PLATFORM ACQUIRING DATA OR DEPLOYING BUOY                 | 51 |
| BUOY NUMBER            | 4-CHARACTER FIELD FOR IDENTIFYING THE BUOY ASSOCIATED WITH DROGUE                        | 63 |
| BLANKS                 |  | 67 |
| LAUNCH SUMMARY RECORD  | ALWAYS 'B' - ONLY ONE OF THESE RECORDS SHOULD BE SUBMITTED WITH EACH DROGUE DEPLOYMENT   | 10 |
| DROGUE NUMBER          | SEE RECORD 'A'   | 11 |
| LAUNCH POSITION:       | POSITION AT DEPLOYMENT   |    |
| LATITUDE               | DDMMSS PLUS HEMISPHERE 'N' OR 'S'  | 16 |
| LONGITUDE              | DDMMSS PLUS HEMISPHERE 'E' OR 'W'  | 23 |
| END POSITION:          | POSITION AT PICKUP OR TERMINATION OF OBSERVATIONS  |    |
| LATITUDE               | DDMMSS PLUS HEMISPHERE 'N' OR 'S'  | 31 |
| LONGITUDE              | DDMMSS PLUS HEMISPHERE 'E' OR 'W'  | 38 |
| LAUNCH DATE (GMT)      | YYMMDD   | 45 |
| LAUNCH TIME (GMT)      | XXXX-HOURS AND MINUTES   | 52 |
| END DATE (GMT)         | YYMMDD   | 56 |
| END TIME (GMT)         | XXXX-HOURS AND MINUTES   | 52 |
| DROGUE DEPTH           | XXXX-DEPTH IN METERS   | 60 |
| OBSERVATION FREQUENCY  | XXXX-HOURS AND MINUTES - USE WHEN BUOY POSITIONS ARE REPORTED AT SPECIFIC TIME INTERVALS | 70 |
| BLANKS                 |  | 74 |

| DATE       | NODC Users Guide | SECTION | PAGE |
|------------|------------------|---------|------|
| March 1984 |                  | 4.1.20  | 4    |

|                          |   |           |
|--------------------------|---|-----------|
| <b>DATA RECORD</b>       | <b>ALWAYS 'C' - EACH RECORD CONTAINS INDIVIDUAL DROGUE POSITION AND ASSOCIATED SEA SURFACE CONDITIONS</b>   | <b>10</b> |
| DROGUE NUMBER            | SEE RECORD 'A'  | 11        |
| OBSERVED POSITION        |   |           |
| LATITUDE                 | DDMMSS PLUS HEMISPHERE 'N' OR 'S'   | 16        |
| LONGITUDE                | DDMMSS PLUS HEMISPHERE 'E' OR 'W'   | 23        |
| OBSERVED DATE (GMT)      | YYMMDD  | 31        |
| OBSERVED TIME (GMT)      | XXXX-HOURS AND MINUTES  | 37        |
| SURFACE TEMPERATURE      | XXX-DEG C (TO TENTHS)   | 41        |
| SURFACE SALINITY         | XXXX-PARTS PER THOUSAND (TO HUNDREDTHS)   | 44        |
| ATMOSPHERIC PRESSURE     | XXXXXX-MILLIBARS (TO HUNDREDTHS)  | 48        |
| WIND SPEED               | XX-METERS PER SECOND  | 54        |
| WIND DIRECTION           | XX-TENS OF DEGREES  | 56        |
| WIND FORCE               | ONE-CHARACTER CODE - USE CODE 0052  | 58        |
| WAVE HEIGHT              | ONE-CHARACTER CODE - USE CODE 0104  | 59        |
| WAVE PERIOD              | ONE-CHARACTER CODE - USE CODE 0378  | 60        |
| SEA STATE                | ONE-CHARACTER CODE - USE CODE 0109  | 61        |
| BOTTOM DEPTH             | XXXX-BOTTOM DEPTH AT REPORTED BUOY POSITION (DEPTH IN METERS)   | 62        |
| AIR TEMPERATURE          | XXXX - DEG C TO TENTHS. NEGATIVE VALUES PRECEDED BY MINUS SIGN  | 66        |
| BLANKS                   |   | 70        |
| SEQUENCE NUMBER          | XXXX-USE TO SORT RECORDS FOR EACH DROGUE/BUOY - SEQUENCE NUMBERS SHOULD BE IN ASCENDING ORDER   | 77        |
| <b>SUBSURFACE RECORD</b> | <b>ALWAYS 'D' - EACH RECORD CONTAINS SUBSURFACE DATA ASSOCIATED WITH THE DROGUES.</b>   | <b>10</b> |
| DROGUE NUMBER            | SEE RECORD 'A'  | 11        |
| DEPTH                    | XXXXX - METERS TO HUNDREDTHS  | 13        |
| PRESSURE                 | XXXXX - DECIBARS TO HUNDREDTHS  | 21        |
| TEMPERATURE              | XXX - DEG C TO TENTHS. NEGATIVE VALUES PRECEDED BY MINUS SIGN   | 26        |
| DEPTH                    | XXXXX - METERS TO HUNDREDTHS  | 29        |
| PRESSURE                 | XXXXX - DECIBARS TO HUNDREDTHS  | 34        |
| TEMPERATURE              | XXX - DEG C TO TENTHS   | 39        |
| DEPTH                    | XXXXX - METERS TO HUNDREDTHS  | 42        |
| PRESSURE                 | XXXXX - DECIBARS TO HUNDREDTHS  | 47        |
| TEMPERATURE              | XXX - DEG C TO TENTHS   | 52        |
| DEPTH                    | XXXXX - METERS TO HUNDREDTHS  | 55        |
| PRESSURE                 | XXXXX - DECIBARS TO HUNDREDTHS  | 60        |
| TEMPERATURE              | XXX - DEG C TO TENTHS   | 65        |
| BLANKS                   |   | 68        |
| SEQUENCE NUMBER          | XXXX - SEE ABOVE  | 77        |
| <b>TEXT RECORD</b>       | <b>ALWAYS 'T' - USE FOR COMMENTS AND OTHER INFORMATION</b>  | <b>10</b> |
| DROGUE NUMBER            | SEE RECORD 'A'  | 11        |
| TEXT                     | 81-CHARACTER FIELD FOR COMMENTS- MULTIPLE TEXT RECORDS MAY BE USED TO DESCRIBE INDIVIDUAL DROGUE OBSERVATIONS OR FOR GENERAL COMMENTS   | 16        |
| SEQUENCE NUMBER          | TEXT RECORDS MAY BE INSERTED BETWEEN OR FOLLOW DATA RECORDS DEPENDING ON THE NATURE OF THE COMMENTS. THE ORDER OF SEQUENCE NUMBERS SHOULD REFLECT THE PROPER SORTING OF COMBINED DATA AND TRACK RECORDS FOR EACH DROGUE/BUOY. | 77        |

## TRANSMITTAL AND RECEIPT RECORD

(Please sign and return carbon copy acknowledging receipt)

TO: Data Acq. & Mgmt. Branch  
E/OC 13, Universal Bldg.  
Wash. DC 20235

REFER TO

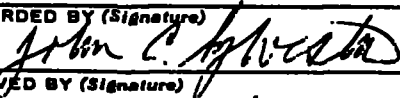
ATTENTION

F. Mitchell

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

☒ ORDINARY  
MAIL☐ REGISTERED  
MAIL☐ AIR  
MAIL☐ CERTIFIED  
MAIL☐ GOVERNMENT  
TRUCK☐ BY HAND☐ OTHEREPOCS / FGGE Drifting buoy data; Feb. 1979 thru Oct. 1980.  
Tapes 1 & 2.EPOCS Drifting Buoy data; Nov. 1981 thru Dec. 1983  
Tapes 1, 2, 3 & 4.EPOCS Drifting buoy data; Aug. 1980 thru Apr. 1982.  
Tapes 1 & 2.Data are in FT 156. Please consult the  
data processing information in the data  
reports (forwarded under separate cover).Acc#s \_\_\_\_\_Ref. It's \_\_\_\_\_

FORWARDED BY (Signature)



TITLE

S.E.L.O.

DATE FORWARDED

12-8-86

RECEIVED BY (Signature)

TITLE

DATE RECEIVED

A00382

INVENTORY  
Record 15089 on screen  
163415

Record found

86 00 398

DATA ENTRY INFORMATION SYSTEM  
(DATASET INVENTORY)

SJH

DATE OF ENTRY: 04/15/87

REFERENCE NUMBER: TT9253      ACCESSION NUMBER: 8600398  
FORMER REFERENCE NUMBER:      FORMER ACCESSION NUMBER:      (RESUB ONLY)

INVENTORY

MEDIA-IN: 01 - Digital Magnetic Tape      DINDB CODE 09  
EXCHANGE (FORMAT): E060 - Drifting Buoys, Surface (F156)  
PROCESSING (FORMAT): F156 - Drifting Buoys, Surface

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

INSTITUTE (COUNTRY AND INSTITUTE CODES): 311A  
PLATFORM (COUNTRY AND PLATFORM CODES): 32DB  
PLATFORM TYPE: 3 - Buoy      DINDB CODE 03

ORIGINATORS FILE ID:      ORIGINATORS CRUISE ID: 4400  
CRUISE START DATE: 11/14/82      CRUISE END DATE: 10/16/84      Press PgDn  
PROJECT CODE:      DATA USE CODE (DUC): 3      to continue

F2ENTER F3VIEW F4EXIT F5FORM CLR F6FLD CLR F7DELETE F8MODIFY F9REPORT F10MULTI

INVENTORY

VOLUME - NUMBER OF STATIONS: 1      NUMBER OF RECORDS: 5,618

If STA/REC counts are not appropriate then enter -

NUMBER:      UNITS:

AVERAGE REC SIZE: 80      MBYTES: 0.449440

OCEAN AREA

CODE 1: 61B      MEANING: SW Pacific (limit-140 W )  
CODE 2:      MEANING:  
CODE 3:      MEANING:

DINDB TRACK TRANSACTION GENERATED: ✓ / /

F2ENTER F3VIEW F4EXIT F5FORM CLR F6FLD CLR F7DELETE F8MODIFY F9REPORT F10MULTI

## INVENTORY

163416

DATA ENTRY INFORMATION SYSTEM  
(DATASET INVENTORY)

SJH

DATE OF ENTRY: 04/15/87

REFERENCE NUMBER: TT9254

ACCESSION NUMBER: 8600398

FORMER REFERENCE NUMBER:

FORMER ACCESSION NUMBER:

(RESUB ONLY)

-----  
INVENTORY

MEDIA-IN: 01 - Digital Magnetic Tape

DINDB CODE 09

EXCHANGE (FORMAT): E060 - Drifting Buoys, Surface (F156)

PROCESSING (FORMAT): F156 - Drifting Buoys, Surface

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

INSTITUTE (COUNTRY AND INSTITUTE CODES): 311A

PLATFORM (COUNTRY AND PLATFORM CODES): 32DB

PLATFORM TYPE: 3 - Buoy

DINDB CODE 03

ORIGINATORS FILE ID:

ORIGINATORS CRUISE ID: 4401

CRUISE START DATE: 11/25/82

CRUISE END DATE: 10/28/83

Press PgDn

PROJECT CODE:

DATA USE CODE (DUC): 3

to continue

F2ENTER F3VIEW F4EXIT F5FORM CLR F6FLD CLR F7DELETE F8MODIFY F9REPORT F10MULTI

## INVENTORY

VOLUME - NUMBER OF STATIONS:

1

NUMBER OF RECORDS:

2,698

If STA/REC counts are not appropriate then enter -

NUMBER:

UNITS:

AVERAGE REC SIZE:

80

MBYTES:

0.215840

-----  
OCEAN AREA

CODE 1: 61B

MEANING: SW Pacific (limit-140 W )

CODE 2:

MEANING:

CODE 3:

MEANING:

-----  
DINDB TRACK TRANSACTION GENERATED: / /

F2ENTER F3VIEW F4EXIT F5FORM CLR F6FLD CLR F7DELETE F8MODIFY F9REPORT F10MULTI

## INVENTORY

163417

DATA ENTRY INFORMATION SYSTEM  
(DATASET INVENTORY)

SJH

DATE OF ENTRY: 04/15/87

REFERENCE NUMBER: TT9255      ACCESSION NUMBER: 8600398  
FORMER REFERENCE NUMBER:      FORMER ACCESSION NUMBER:      (RESUB ONLY)

## INVENTORY

MEDIA-IN: 01 - Digital Magnetic Tape      DINDB CODE 09  
EXCHANGE (FORMAT): E060 - Drifting Buoys, Surface (F156)  
PROCESSING (FORMAT): F156 - Drifting Buoys, Surface

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

INSTITUTE (COUNTRY AND INSTITUTE CODES): 311A  
PLATFORM (COUNTRY AND PLATFORM CODES): 32DB  
PLATFORM TYPE: 3 - Buoy      DINDB CODE 03ORIGINATORS FILE ID:      ORIGINATORS CRUISE ID: 4402  
CRUISE START DATE: 12/03/82      CRUISE END DATE: 12/27/82      Press PgDn  
PROJECT CODE:      DATA USE CODE (DUC): 3      to continue

F2ENTER F3VIEW F4EXIT F5FORM CLR F6FLD CLR F7DELETE F8MODIFY F9REPORT F10MULTI

## INVENTORY

VOLUME - NUMBER OF STATIONS:      1      NUMBER OF RECORDS:      194

If STA/REC counts are not appropriate then enter -

NUMBER:      UNITS:

AVERAGE REC SIZE:      80      MBYTES:      0.015520

## OCEAN AREA

CODE 1: 61B      MEANING: SW Pacific (limit-140 W )  
CODE 2:      MEANING:  
CODE 3:      MEANING:

DINDB TRACK TRANSACTION GENERATED:      /      /

F2ENTER F3VIEW F4EXIT F5FORM CLR F6FLD CLR F7DELETE F8MODIFY F9REPORT F10MULTI

ACCESSION NO. 8600398FILETYPE F156TRACK NO. TT9253-55PROJECT  
IDENTIFICATION 0106  
LFPCS

| STEP               | DATE    | INIT. | TAPE OR<br>DISK DSN | NO.<br>FILES | NO.<br>RECL | BLK<br>SIZE | NO.<br>RECORDS |
|--------------------|---------|-------|---------------------|--------------|-------------|-------------|----------------|
| ORIG. TAPE         | 2/11/87 | CMH   | A00382              | 1            | 80          | 80          | 8510           |
| DUPLICATE TAPE     | ↓       | ↓     | W13762 *            | 1            | 80          | 4000        | 8510           |
| REFORMATTED TAPE   |         |       |                     |              |             |             |                |
| REFORMATTED DISK   | 4/20/89 | FJM   | DNODC * FIVEOUT.    | 1            | 80          | 224         | 8510           |
| FIRST MULCHEK      |         |       |                     |              |             |             |                |
| FINAL MULCHEK      |         |       |                     |              |             |             |                |
| MPD75 OR F022      |         |       |                     |              |             |             |                |
| DATA SET FINALIZED |         |       |                     |              |             |             |                |

ERRORS REPORTED TO PRINCIPAL INVESTIGATOR: \* LABEL = DNODC \* 860039808.

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

COMMENTS (TRACKS DELETED, FIELDS DELETED, ETC.)



## TRANSMITTAL AND RECEIPT RECORD

(Please sign and return carbon copy acknowledging receipt)

Data Acq. & Mgmt. Branch  
E/OC 13, Universal Bldg.  
Wash. DC 20235

REFER TO

ATTENTION

F. Mitchell

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

☒ ORDINARY  
MAIL☐ REGISTERED  
MAIL☐ AIR  
MAIL☐ CERTIFIED  
MAIL☐ GOVERNMENT  
TRUCK☐ BY HAND☐ OTHEREPOCS / FGGE Drifting buoy data; Feb. 1979 thru Oct. 1980.  
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Tapes 1 & 2.Data are in FT 156. Please consult the  
data processing information in the data  
reports (forwarded under separate cover).Acc #s 8600398Ref. #s A00375, A00376, A00377, A00378  
A00379, A00380, A00381, A00382

FORWARDED BY (Signature)

John C. [Signature]

TITLE

S. E. L. C.

DATE FORWARDED

12-8-86

RECEIVED BY (Signature)

TITLE

DATE RECEIVED

DONALD HANSON

S. E. L. C.

DINDB QUERY LISTING  
04/27/1989

|     | ACC-NO  | REFNO  | F-A  | PROJ | INST | PLAT | CRUISE | ***CRUISE<br>START | DATES***<br>END | STA<br>IN | STA<br>OUT |
|-----|---------|--------|------|------|------|------|--------|--------------------|-----------------|-----------|------------|
| *** |         |        |      |      |      |      |        |                    |                 |           |            |
| *   | 8600398 | TT8788 | F156 | 0106 | 311A | 32DB | 2201   | 02/14/1979         | 04/01/1980      | 1         | 15         |
| *   |         | TT8789 | F156 | 0106 | 311A | 32DB | 2202   | 03/01/1979         | 02/01/1980      | 1         | 12         |
| *   |         | TT8790 | F156 | 0106 | 311A | 32DB | 2204   | 02/14/1979         | 03/01/1979      | 1         | 2          |
| *   |         | TT8791 | F156 | 0106 | 311A | 32DB | 2205   | 06/01/1979         | 08/01/1980      | 1         | 15         |
| *   |         | TT8792 | F156 | 0106 | 311A | 32DB | 2207   | 02/15/1979         | 06/01/1980      | 1         | 17         |
| *   |         | TT8793 | F156 | 0106 | 311A | 32DB | 2208   | 06/07/1979         | 01/01/1980      | 1         | 8          |
| *   |         | TT8794 | F156 | 0106 | 311A | 32DB | 2209   | 06/07/1979         | 08/01/1980      | 1         | 15         |
| *   |         | TT8795 | F156 | 0106 | 311A | 32DB | 2211   | 06/07/1979         | 07/01/1980      | 1         | 14         |
| *   |         | TT8796 | F156 | 0106 | 311A | 32DB | 2212   | 06/08/1979         | 08/01/1980      | 1         | 15         |
| *   |         | TT8797 | F156 | 0106 | 311A | 32DB | 2213   | 06/07/1979         | 07/01/1980      | 1         | 14         |
| *   |         | TT8798 | F156 | 0106 | 311A | 32DB | 2214   | 06/09/1979         | 02/01/1980      | 1         | 9          |
| *   |         | TT8799 | F156 | 0106 | 311A | 32DB | 2215   | 06/07/1979         | 06/01/1980      | 1         | 13         |
| *   |         | TT8800 | F156 | 0106 | 311A | 32DB | 2217   | 06/06/1979         | 08/01/1980      | 1         | 15         |
| *   |         | TT8801 | F156 | 0106 | 311A | 32DB | 2218   | 06/07/1979         | 02/01/1980      | 1         | 9          |

>

Reference #

~~REF ID: A77009~~

NUMBER

8600398

DATA DOCUMENTATION FORM  
TT 8788-8801

F156

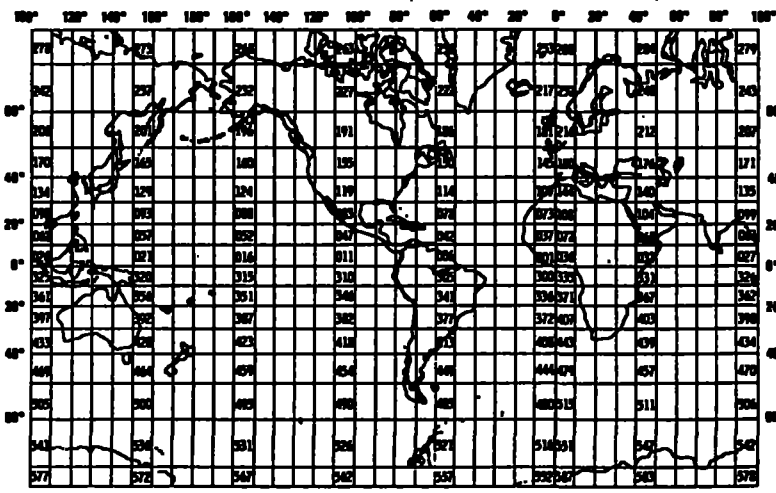
NOAA FORM 24-13  
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| 4. PLATFORM NAME(S)<br>N/A  | 5. PLATFORM TYPE(S)<br>(E.G., SHIP, BUOY, ETC.)<br>BUOY | 6. PLATFORM AND OPERATOR<br>NATIONALITY(IES)<br>PLATFORM OPERATOR<br>USA USA   | 7. DATES<br>FROM: MO, DAY, YR TO: MO, DAY, YR<br><del>06/14/79</del> 08/29/80<br>2-14-79 |
| 8. ARE DATA PROPRIETARY?<br><input checked="" type="checkbox"/> NO <input type="checkbox"/> YES<br>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.<br>GENERAL AREA<br> |  |
| 9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)?<br>(I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?)<br><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)<br>Donald Hansen   |   |  |  |

|                    |                  |                   |           |
|--------------------|------------------|-------------------|-----------|
| DATE<br>March 1984 | NODC Users Guide | SECTION<br>4.1.20 | PAGE<br>3 |
|--------------------|------------------|-------------------|-----------|

### File structure -

Five 80-character records: (1) Header Record, (2) Launch Summary Record, (3) Data Record, (4) Subsurface Record, and (5) Text Record. Note: This file format supersedes File Format 056; investigators should report new data in this format.

### File format -

#### Lagrangian Current Measurements (F156)

| PARAMETER              | DESCRIPTION  | SC |
|------------------------|--|----|
| HEADER RECORD          | ALWAYS 'A'   | 10 |
| DROGUE NUMBER          | FIVE-CHARACTER FIELD ASSIGNED BY INVESTIGATOR - ANALOGOUS TO STATION NUMBER              | 11 |
| DROGUE TYPE            | FIVE CHARACTER FIELD FOR INDICATING TYPE OF DROGUE - DETERMINED BY INVESTIGATOR          | 16 |
| PRINCIPAL INVESTIGATOR | 15-CHARACTER FIELD FOR NAME OF PRINCIPAL INVESTIGATOR                                    | 21 |
| INSTITUTION OR AGENCY  | 15-CHARACTER FIELD FOR NAME OF INSTITUTION OR AGENCY                                     | 36 |
| PLATFORM NAME          | 12-CHARACTER FIELD FOR NAME OF PLATFORM ACQUIRING DATA OR DEPLOYING BUOY                 | 51 |
| BUOY NUMBER            | 4-CHARACTER FIELD FOR IDENTIFYING THE BUOY ASSOCIATED WITH DROGUE                        | 63 |
| BLANKS                 |  | 67 |
| LAUNCH SUMMARY RECORD  | ALWAYS 'B' - ONLY ONE OF THESE RECORDS SHOULD BE SUBMITTED WITH EACH DROGUE DEPLOYMENT   | 10 |
| DROGUE NUMBER          | SEE RECORD 'A'   | 11 |
| LAUNCH POSITION:       | POSITION AT DEPLOYMENT   |    |
| LATITUDE               | DDMMSS PLUS HEMISPHERE 'N' OR 'S'  | 16 |
| LONGITUDE              | DDMMSS PLUS HEMISPHERE 'E' OR 'W'  | 23 |
| END POSITION:          | POSITION AT PICKUP OR TERMINATION OF OBSERVATIONS  |    |
| LATITUDE               | DDMMSS PLUS HEMISPHERE 'N' OR 'S'  | 31 |
| LONGITUDE              | DDMMSS PLUS HEMISPHERE 'E' OR 'W'  | 38 |
| LAUNCH DATE (GMT)      | YYMMDD   | 45 |
| LAUNCH TIME (GMT)      | XXXX-HOURS AND MINUTES   | 52 |
| END DATE (GMT)         | YYMMDD   | 56 |
| END TIME (GMT)         | XXXX-HOURS AND MINUTES   | 62 |
| DROGUE DEPTH           | XXXX-DEPTH IN METERS   | 66 |
| OBSERVATION            | XXXX-HOURS AND MINUTES - USE WHEN BUOY POSITIONS ARE REPORTED AT SPECIFIC TIME INTERVALS | 70 |
| FREQUENCY              |  |    |
| BLANKS                 |  | 74 |

|                    |                  |                   |           |
|--------------------|------------------|-------------------|-----------|
| DATE<br>March 1984 | NODC Users Guide | SECTION<br>4.1.20 | PAGE<br>4 |
|--------------------|------------------|-------------------|-----------|

|                      |   |          |
|----------------------|---|----------|
| DATA RECORD          | ALWAYS 'C' - EACH RECORD CONTAINS INDIVIDUAL DROGUE POSITION AND ASSOCIATED SEA SURFACE CONDITIONS<br>SEE RECORD 'A'  | 10<br>11 |
| DROGUE NUMBER        | DDMMSS PLUS HEMISPHERE 'N' OR 'S'   | 16       |
| OBSERVED POSITION    | DDMMSS PLUS HEMISPHERE 'E' OR 'W'   | 23       |
| LATITUDE             | YYMMDD  | 31       |
| LONGITUDE            | XXXX-HOURS AND MINUTES  | 37       |
| OBSERVED DATE (GMT)  | XXX-DEG C (TO TENTHS)   | 41       |
| OBSERVED TIME (GMT)  | XXXX-PARTS PER THOUSAND (TO HUNDREDTHS)   | 44       |
| SURFACE TEMPERATURE  | XXXXXX-MILLIBARS (TO HUNDREDTHS)  | 48       |
| SURFACE SALINITY     | XX-METERS PER SECOND  | 54       |
| ATMOSPHERIC PRESSURE | XX-TENS OF DEGREES  | 56       |
| WIND SPEED           | ONE-CHARACTER CODE - USE CODE 0052  | 58       |
| WIND DIRECTION       | ONE-CHARACTER CODE - USE CODE 0104  | 59       |
| WIND FORCE           | ONE-CHARACTER CODE - USE CODE 0378  | 60       |
| WAVE HEIGHT          | ONE-CHARACTER CODE - USE CODE 0109  | 61       |
| WAVE PERIOD          | XXXX-BOTTOM DEPTH AT REPORTED BUOY POSITION (DEPTH IN METERS)   | 62       |
| SEA STATE            | XXXX - DEG C TO TENTHS. NEGATIVE VALUES PRECEDED BY MINUS SIGN  | 66       |
| BOTTOM DEPTH         |   | 70       |
| AIR TEMPERATURE      |   | 77       |
| BLANKS               | XXXX-USE TO SORT RECORDS FOR EACH DROGUE/BUOY - SEQUENCE NUMBERS SHOULD BE IN ASCENDING ORDER   |          |
| SEQUENCE NUMBER      |   |          |
| SUBSURFACE RECORD    | ALWAYS 'D' - EACH RECORD CONTAINS SUBSURFACE DATA ASSOCIATED WITH THE DROGUES.<br>SEE RECORD 'A'  | 10<br>11 |
| DROGUE NUMBER        | XXXX - METERS TO HUNDREDTHS   | 13       |
| DEPTH                | XXXXX - DECIBARS TO HUNDREDTHS  | 21       |
| PRESSURE             | XXX - DEG C TO TENTHS. NEGATIVE VALUES PRECEDED BY MINUS SIGN   | 26       |
| TEMPERATURE          | XXXXX - METERS TO HUNDREDTHS  | 29       |
| DEPTH                | XXXXX - DECIBARS TO HUNDREDTHS  | 34       |
| PRESSURE             | XXX - DEG C TO TENTHS   | 39       |
| TEMPERATURE          | XXXXX - METERS TO HUNDREDTHS  | 42       |
| DEPTH                | XXXXX - DECIBARS TO HUNDREDTHS  | 47       |
| PRESSURE             | XXX - DEG C TO TENTHS   | 52       |
| TEMPERATURE          | XXXXX - METERS TO HUNDREDTHS  | 55       |
| DEPTH                | XXXXX - DECIBARS TO HUNDREDTHS  | 60       |
| PRESSURE             | XXX - DEG C TO TENTHS   | 65       |
| TEMPERATURE          |   | 68       |
| BLANKS               | XXXX - SEE ABOVE  | 77       |
| SEQUENCE NUMBER      |   |          |
| TEXT RECORD          | ALWAYS 'T' - USE FOR COMMENTS AND OTHER INFORMATION<br>SEE RECORD 'A'   | 10<br>11 |
| DROGUE NUMBER        | 61-CHARACTER FIELD FOR COMMENTS- MULTIPLE TEXT RECORDS MAY BE USED TO DESCRIBE INDIVIDUAL DROGUE OBSERVATIONS OR FOR GENERAL COMMENTS   | 16       |
| TEXT                 | TEXT RECORDS MAY BE INSERTED BETWEEN OR FOLLOW DATA RECORDS DEPENDING ON THE NATURE OF THE COMMENTS. THE ORDER OF SEQUENCE NUMBERS SHOULD REFLECT THE PROPER SORTING OF COMBINED DATA AND TRACK RECORDS FOR EACH DROGUE/BUOY. | 77       |
| SEQUENCE NUMBER      |   |          |

ACCESSION NO. 860039BFILETYPE F156

TRACK NO. \_\_\_\_\_

PROJECT  
IDENTIFICATION EPACSTT8788-8801

| STEP               | DATE    | INIT.  | TAPE OR<br>DISK DSN | NO.<br>FILES | RECL | BLK SIZE | NO.<br>RECORDS |
|--------------------|---------|--------|---------------------|--------------|------|----------|----------------|
| ORIG. TAPE         | 4-6-87  | I.E.G. | A00377              | 1            | 80   | 80       | 39,780         |
| DUPLICATE TAPE     | 4-6-87  | I.E.G. | W12742              | 1            | 80   | 8400     | ✓              |
| REFORMATTED TAPE   |         |        |                     |              |      |          |                |
| REFORMATTED DISK   | 4-24-89 | F.J.M. | DNODC X SEVEN OUT.  | 1            | 80   | 224      | 39,780         |
| FIRST MULCHEK      |         |        |                     |              |      |          |                |
| FINAL MULCHEK      |         |        |                     |              |      |          |                |
| MPD75 OR F022      |         |        |                     |              |      |          |                |
| DATA SET FINALIZED |         |        |                     |              |      |          |                |

ERRORS REPORTED TO PRINCIPAL INVESTIGATOR:

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

COMMENTS (TRACKS DELETED, FIELDS DELETED, ETC.)

10 May 1988

MEMORANDUM FOR: Phil Hadsell

FROM: Steven Patterson

SUBJECT: Text Records in Accession # 8600398

Yesterday Mayra Pazos of ADML (FTS 350-1422) returned my call in which I inquired about the contents of the text records ("T" records) in Don Hansen's drifting buoy data (accession # 8600398). Don uses an optimal interpolation routine (called "Krig") to smooth the raw drifting buoy data and to interpolate values at a uniform 6 hour interval. This technique automatically provides an estimate of the error in the interpolated values. On the text record (e.g., "LAT KRIGGED ERR .0053 LON K ERR .0057 TP K ERR 0.1249"), the estimated error in latitude and longitude are provided in degrees to four decimal places, and the error in temperature in degrees Celsius to four decimal places.

TF 8788 - TT 8801

8600398

A00379

| ESS<br>NUMBER | REF<br>NUMBER | FILE<br>TYPE | PROJ<br>CODE | INST | PLAT | CRUISE<br>NO | CRUISE<br>START | CRUISE<br>END | NUM<br>STA | NUM<br>REC |
|---------------|---------------|--------------|--------------|------|------|--------------|-----------------|---------------|------------|------------|
| 8600398       | TT9332        | F156         | 0106         | 311A | 32DB | 2162         | 11/25/81        | 07/23/83      | 1          | 4,842      |
| 8600398       | TT9333        | F156         | 0106         | 311A | 32DB | 2163         | 11/25/82        | 02/17/83      | 1          | 674        |
| 8600398       | TT9334        | F156         | 0106         | 311A | 32DB | 2172         | 03/27/82        | 04/19/83      | 1          | 3,106      |
| 8600398       | TT9335        | F156         | 0106         | 311A | 32DB | 2175         | 07/23/83        | 10/13/83      | 1          | 658        |
| 8600398       | TT9336        | F156         | 0106         | 311A | 32DB | 2176         | 03/08/82        | 06/08/82      | 1          | 738        |
| 8600398       | TT9337        | F156         | 0106         | 311A | 32DB | 2177         | 09/13/82        | 04/27/84      | 1          | 4,738      |
| 8600398       | TT9338        | F156         | 0106         | 311A | 32DB | 2178         | 03/26/82        | 06/24/83      | 1          | 3,642      |
| 8600398       | TT9339        | F156         | 0106         | 311A | 32DB | 2180         | 10/15/82        | 05/15/84      | 1          | 4,626      |
| 8600398       | TT9340        | F156         | 0106         | 311A | 32DB | 2181         | 11/27/81        | 07/05/83      | 1          | 4,682      |
| 8600398       | TT9341        | F156         | 0106         | 311A | 32DB | 2182         | 11/28/82        | 12/07/83      | 1          | 2,994      |
| 8600398       | TT9342        | F156         | 0106         | 311A | 32DB | 2183         | 11/26/81        | 10/21/82      | 1          | 2,634      |
| 8600398       | TT9343        | F156         | 0106         | 311A | 32DB | 2184         | 11/15/83        | 04/10/84      | 1          | 1,178      |
| 8600398       | TT9344        | F156         | 0106         | 311A | 32DB | 2185         | 07/18/83        | 02/07/85      | 1          | 4,562      |



ACCESSION NO 8600398 FILETYPE F156 TRACK NO. TT 9332 - 9344

PROJECT IDENTIFICATION EP0CS

| STEP               | DATE    | INIT.  | TAPE OR<br>DISK DSN | NO.<br>FILES | NO.<br>RECL | BLK SIZE | NO.<br>RECORDS |
|--------------------|---------|--------|---------------------|--------------|-------------|----------|----------------|
| ORIG. TAPE         | 4-23-87 | I.E.G. | A00379              | 1            | 80          | 8000     | 39,074         |
| DUPLICATE TAPE     | ↓       | ↓      | W13374 *            | 1            | 80          | 8000     |                |
| REFORMATTED TAPE   |         |        |                     |              |             |          |                |
| REFORMATTED DISK   | 4-20-89 | FJMM   | DNODC * THREEOUT.   | 1            | 80          | 224      | 39,074         |
| FIRST MULCHEK      |         |        |                     |              |             |          |                |
| FINAL MULCHEK      |         |        |                     |              |             |          |                |
| MPD75 OR F022      |         |        |                     |              |             |          |                |
| DATA SET FINALIZED |         |        |                     |              |             |          |                |

ERRORS REPORTED TO PRINCIPAL INVESTIGATOR:

\* = NO LABEL

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

COMMENTS (TRACKS DELETED, FIELDS DELETED, ETC.)

8600398

**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.**

**THIS SECTION MUST BE COMPLETED BY DONOR FOR ALL DATA TRANSMITTALS**

NOAA FORM 24-18

|                    |                  |                   |           |
|--------------------|------------------|-------------------|-----------|
| DATE<br>March 1984 | NODC Users Guide | SECTION<br>4.1.20 | PAGE<br>3 |
|--------------------|------------------|-------------------|-----------|

### File structure -

Five 80-character records: (1) Header Record, (2) Launch Summary Record, (3) Data Record, (4) Subsurface Record, and (5) Text Record. Note: This file format supersedes File Format 056; investigators should report new data in this format.

### File format -

#### Lagrangian Current Measurements (F156)

| PARAMETER              | DESCRIPTION  | SC |
|------------------------|--|----|
| HEADER RECORD          | ALWAYS 'A'   | 10 |
| DROGUE NUMBER          | FIVE-CHARACTER FIELD ASSIGNED BY INVESTIGATOR - ANALOGOUS TO STATION NUMBER              | 11 |
| DROGUE TYPE            | FIVE CHARACTER FIELD FOR INDICATING TYPE OF DROGUE - DETERMINED BY INVESTIGATOR          | 16 |
| PRINCIPAL INVESTIGATOR | 15-CHARACTER FIELD FOR NAME OF PRINCIPAL INVESTIGATOR                                    | 21 |
| INSTITUTION OR AGENCY  | 15-CHARACTER FIELD FOR NAME OF INSTITUTION OR AGENCY                                     | 36 |
| PLATFORM NAME          | 12-CHARACTER FIELD FOR NAME OF PLATFORM ACQUIRING DATA OR DEPLOYING BUOY                 | 51 |
| BUOY NUMBER            | 4-CHARACTER FIELD FOR IDENTIFYING THE BUOY ASSOCIATED WITH DROGUE                        | 63 |
| BLANKS                 |  | 67 |
| LAUNCH SUMMARY RECORD  | ALWAYS 'B' - ONLY ONE OF THESE RECORDS SHOULD BE SUBMITTED WITH EACH DROGUE DEPLOYMENT   | 10 |
| DROGUE NUMBER          | SEE RECORD 'A'   | 11 |
| LAUNCH POSITION:       | POSITION AT DEPLOYMENT   |    |
| LATITUDE               | DDMMSS PLUS HEMISPHERE 'N' OR 'S'  | 16 |
| LONGITUDE              | DDMMSS PLUS HEMISPHERE 'E' OR 'W'  | 23 |
| END POSITION:          | POSITION AT PICKUP OR TERMINATION OF OBSERVATIONS  |    |
| LATITUDE               | DDMMSS PLUS HEMISPHERE 'N' OR 'S'  | 31 |
| LONGITUDE              | DDMMSS PLUS HEMISPHERE 'E' OR 'W'  | 38 |
| LAUNCH DATE (GMT)      | YYMMDD   | 45 |
| LAUNCH TIME (GMT)      | XXXX-HOURS AND MINUTES   | 52 |
| END DATE (GMT)         | YYMMDD   | 56 |
| END TIME (GMT)         | XXXX-HOURS AND MINUTES   | 62 |
| DROGUE DEPTH           | XXXX-DEPTH IN METERS   | 66 |
| OBSERVATION FREQUENCY  | XXXX-HOURS AND MINUTES - USE WHEN BUOY POSITIONS ARE REPORTED AT SPECIFIC TIME INTERVALS | 70 |
| BLANKS                 |  | 74 |

| DATE       | NODC Users Guide | SECTION | PAGE |
|------------|------------------|---------|------|
| March 1984 |                  | 4.1.20  | 4    |

|                          |   |           |
|--------------------------|---|-----------|
| <b>DATA RECORD</b>       | <b>ALWAYS 'C' - EACH RECORD CONTAINS INDIVIDUAL DROGUE POSITION AND ASSOCIATED SEA SURFACE CONDITIONS</b>   | <b>10</b> |
| DROGUE NUMBER            | SEE RECORD 'A'  | 11        |
| OBSERVED POSITION        |   |           |
| LATITUDE                 | DDMMSS PLUS HEMISPHERE 'N' OR 'S'   | 16        |
| LONGITUDE                | DDMMSS PLUS HEMISPHERE 'E' OR 'W'   | 23        |
| OBSERVED DATE (GMT)      | YYMMDD  | 31        |
| OBSERVED TIME (GMT)      | XXXX-HOURS AND MINUTES  | 37        |
| SURFACE TEMPERATURE      | XXX-DEG C (TO TENTHS)   | 41        |
| SURFACE SALINITY         | XXXX-PARTS PER THOUSAND (TO HUNDREDTHS)   | 44        |
| ATMOSPHERIC PRESSURE     | XXXXXX-MILLIBARS (TO HUNDREDTHS)  | 48        |
| WIND SPEED               | XX-METERS PER SECOND  | 54        |
| WIND DIRECTION           | XX-TENS OF DEGREES  | 56        |
| WIND FORCE               | ONE-CHARACTER CODE- USE CODE 0052   | 58        |
| WAVE HEIGHT              | ONE-CHARACTER CODE - USE CODE 0104  | 59        |
| WAVE PERIOD              | ONE-CHARACTER CODE - USE CODE 0378  | 60        |
| SEA STATE                | ONE-CHARACTER CODE - USE CODE 0109  | 61        |
| BOTTOM DEPTH             | XXXX-BOTTOM DEPTH AT REPORTED BUOY POSITION (DEPTH IN METERS)   | 62        |
| AIR TEMPERATURE          | XXX - DEG C TO TENTHS. NEGATIVE VALUES PRECEDED BY MINUS SIGN   | 66        |
| BLANKS                   |   | 70        |
| SEQUENCE NUMBER          | XXXX-USE TO SORT RECORDS FOR EACH DROGUE/BUOY - SEQUENCE NUMBERS SHOULD BE IN ASCENDING ORDER   | 77        |
| <b>SUBSURFACE RECORD</b> | <b>ALWAYS 'D' - EACH RECORD CONTAINS SUBSURFACE DATA ASSOCIATED WITH THE DROGUES.</b>   | <b>10</b> |
| DROGUE NUMBER            | SEE RECORD 'A'  | 11        |
| DEPTH                    | XXXX - METERS TO HUNDREDTHS   | 13        |
| PRESSURE                 | XXXXX - DECIBARS TO HUNDREDTHS  | 21        |
| TEMPERATURE              | XXX - DEG C TO TENTHS. NEGATIVE VALUES PRECEDED BY MINUS SIGN   | 26        |
| DEPTH                    | XXXXX - METERS TO HUNDREDTHS  | 29        |
| PRESSURE                 | XXXXX - DECIBARS TO HUNDREDTHS  | 34        |
| TEMPERATURE              | XXX - DEG C TO TENTHS   | 39        |
| DEPTH                    | XXXXX - METERS TO HUNDREDTHS  | 42        |
| PRESSURE                 | XXXXX - DECIBARS TO HUNDREDTHS  | 47        |
| TEMPERATURE              | XXX - DEG C TO TENTHS   | 52        |
| DEPTH                    | XXXXX - METERS TO HUNDREDTHS  | 55        |
| PRESSURE                 | XXXXX - DECIBARS TO HUNDREDTHS  | 60        |
| TEMPERATURE              | XXX - DEG C TO TENTHS   | 65        |
| BLANKS                   |   | 68        |
| SEQUENCE NUMBER          | XXXX - SEE ABOVE  | 77        |
| <b>TEXT RECORD</b>       | <b>ALWAYS 'T' - USE FOR COMMENTS AND OTHER INFORMATION</b>  | <b>10</b> |
| DROGUE NUMBER            | SEE RECORD 'A'  | 11        |
| TEXT                     | 61-CHARACTER FIELD FOR COMMENTS- MULTIPLE TEXT RECORDS MAY BE USED TO DESCRIBE INDIVIDUAL DROGUE OBSERVATIONS OR FOR GENERAL COMMENTS   | 16        |
| SEQUENCE NUMBER          | TEXT RECORDS MAY BE INSERTED BETWEEN OR FOLLOW DATA RECORDS DEPENDING ON THE NATURE OF THE COMMENTS. THE ORDER OF SEQUENCE NUMBERS SHOULD REFLECT THE PROPER SORTING OF COMBINED DATA AND TRACK RECORDS FOR EACH DROGUE/BUOY. | 77        |

10 May 1988

MEMORANDUM FOR: Phil Hadsell

FROM: Steven Patterson

SUBJECT: Text Records in Accession # B600398

Yesterday Mayra Pazos of ADML (FTS 350-1422) returned my call in which I inquired about the contents of the text records ("T" records) in Don Hansen's drifting buoy data (accession # B600398). Don uses an optimal interpolation routine (called "Krig") to smooth the raw drifting buoy data and to interpolate values at a uniform 6 hour interval. This technique automatically provides an estimate of the error in the interpolated values. On the text record (e.g., "LAT KRIGGED ERR .0053 LON K ERR .0057 TP K ERR 0.1249"), the estimated error in latitude and longitude are provided in degrees to four decimal places, and the error in temperature in degrees Celsius to four decimal places.

## TRANSMITTAL AND RECEIPT RECORD

(Please sign and return carbon copy acknowledging receipt)

To: Data Acq. & Mgmt. Branch  
E/OC 13, Universal Bldg.  
Wash. DC 20235

REFER TO

ATTENTION

F. Mitchell

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

☒ ORDINARY  
MAIL☐ REGISTERED  
MAIL☐ AIR  
MAIL☐ CERTIFIED  
MAIL☐ GOVERNMENT  
TRUCK☐ BY HAND☐ OTHEREPOCS / FGGE Drifting buoy data; Feb. 1979 thru Oct. 1980.  
Tapes 1 + 2.EPOCS Drifting Buoy data; Nov. 1981 thru Dec. 1983  
Tapes 1, 2, 3 + 4.EPOCS Drifting buoy data; Aug. 1980 thru Apr. 1982.  
Tapes 1 + 2.Data are in FT 156. Please consult the  
data processing information in the data  
reports (forwarded under separate cover).Acc #s8600398Ref. #sA00375, A00376, A00377, A00378  
A00379, A00380, A00381, A00382

FORWARDED BY (Signature)

John C. Givens

TITLE

S.E.L.O.

DATE FORWARDED

12-8-86

RECEIVED BY (Signature)

TITLE

DATE RECEIVED

DONALD HANSON

S. VAPES

8600398

A00380

| SS<br>NUMBER | REF<br>NUMBER | FILE<br>TYPE | PROJ<br>CODE | INST | PLAT | CRUISE<br>NO | CRUISE<br>START | CRUISE<br>END | NUM<br>STA | NUM<br>REC |
|--------------|---------------|--------------|--------------|------|------|--------------|-----------------|---------------|------------|------------|
| 8600398      | TT9345        | F156         | 0106         | 311A | 32DB | 2186         | 07/21/83        | 04/28/84      | 1          | 2,258      |
| 8600398      | TT9346        | F156         | 0106         | 311A | 32DB | 2187         | 12/04/81        | 01/05/83      | 1          | 3,178      |
| 8600398      | TT9347        | F156         | 0106         | 311A | 32DB | 2188         | 11/22/81        | 03/06/83      | 1          | 3,754      |
| 8600398      | TT9348        | F156         | 0106         | 311A | 32DB | 2190         | 03/27/82        | 08/06/83      | 1          | 3,978      |
| 8600398      | TT9349        | F156         | 0106         | 311A | 32DB | 2191         | 12/04/81        | 09/01/83      | 1          | 5,090      |
| 8600398      | TT9350        | F156         | 0106         | 311A | 32DB | 2192         | 11/23/82        | 04/04/84      | 1          | 3,986      |
| 8600398      | TT9351        | F156         | 0106         | 311A | 32DB | 2197         | 03/16/82        | 12/03/82      | 1          | 1,986      |
| 8600398      | TT9352        | F156         | 0106         | 311A | 32DB | 2198         | 03/09/82        | 08/16/83      | 1          | 4,202      |
| 8600398      | TT9353        | F156         | 0106         | 311A | 32DB | 2199         | 11/24/81        | 04/11/83      | 1          | 4,026      |
| 8600398      | TT9354        | F156         | 0106         | 311A | 32DB | 2200         | 03/17/82        | 11/24/83      | 1          | 4,938      |

ACCESSION NO. 8600398 FILETYPE F156 TRACK NO. TT.9345-9354 PROJECT IDENTIFICATION LEPOCS

| STEP               | DATE    | INIT.  | TAPE OR<br>DISK DSN | NO.<br>FILES | RECL | BLK SIZE | NO.<br>RECORDS |
|--------------------|---------|--------|---------------------|--------------|------|----------|----------------|
| ORIG. TAPE         | 5/4/87  | I.E.G. | A00380              | 1            | 80   | 8000     | 37,394         |
| DUPLICATE TAPE     | ↓       | ↓      | W13469*             | 1            | 80   | ↓        | ↓              |
| REFORMATTED TAPE   | ↓       |        |                     |              |      |          |                |
| REFORMATTED DISK   | 4/20/89 | FJM    | DNODC*FOUR OUT.     | 1            | 80   | 224      | 37,394         |
| FIRST MULCHEK      |         |        |                     |              |      |          |                |
| FINAL MULCHEK      |         |        |                     |              |      |          |                |
| MPD75 OR F022      |         |        |                     |              |      |          |                |
| DATA SET FINALIZED |         |        |                     |              |      |          |                |

ERRORS REPORTED TO PRINCIPAL INVESTIGATOR: \* = NO LABEL

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

COMMENTS (TRACKS DELETED, FIELDS DELETED, ETC.)



## TRANSMITTAL AND RECEIPT RECORD

(Please sign and return carbon copy acknowledging receipt)

REFER TO

ATTENTION

F. Mitchell

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

☒ ORDINARY  
MAIL☐ REGISTERED  
MAIL☐ AIR  
MAIL☐ CERTIFIED  
MAIL☐ GOVERNMENT  
TRUCK☐ BY HAND☐ OTHEREPOCS / FGGE Drifting buoy data; Feb. 1979 thru Oct. 1980.  
Tapes 1 + 2.EPOCS Drifting Buoy data; Nov. 1981 thru Dec. 1983  
Tapes 1, 2, 3 + 4.EPOCS Drifting buoy data; Aug. 1980 thru Apr. 1982.  
Tapes 1 + 2.Data are in FT 156. Please consult the  
data processing information in the data  
reports (forwarded under separate cover).Acc #'s 8600398Ref. #'s A00375, A00376, A00377, A00378  
A00379, A00380, A00381, A00382

FORWARDED BY (Signature)

John C. Hyatt

TITLE

S.E.L.C.

DATE FORWARDED

12-8-86

RECEIVED BY (Signature)

TITLE

DATE RECEIVED

T.D. DONALD HANSON S. LIPES

## TRANSMITTAL AND RECEIPT RECORD

(Please sign and return carbon copy acknowledging receipt)

TO: Data Acq. & Mgmt. Branch  
E/OC 13, Universal Bldg.  
Wash. DC. 20235

REFER TO

ATTENTION

F. Mitchell

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

ORDINARY  
MAILREGISTERED  
MAILAIR  
MAILCERTIFIED  
MAILGOVERNMENT  
TRUCK

BY HAND



OTHER

EPOCS / FGGE Drifting buoy data; Feb. 1979 thru Oct. 1980.  
Tapes 1 & 2.EPOCS Drifting Buoy data; Nov. 1981 thru Dec. 1983  
Tapes 1, 2, 3 & 4.EPOCS Drifting buoy data; Aug. 1980 thru Apr. 1982.  
Tapes 1 & 2.Data are in FT 156. Please consult the  
data processing information in the data  
reports (forwarded under separate cover).Acc#s \_\_\_\_\_Ref. It's \_\_\_\_\_

FORWARDED BY (Signature)

*John C. [Signature]*

TITLE

S.E.L.O.

DATE FORWARDED

12-8-86

RECEIVED BY (Signature)

TITLE

DATE RECEIVED

Reference #

TT 9345-9354

NUMBER

8600398

## DATA DOCUMENTATION FORM

F156

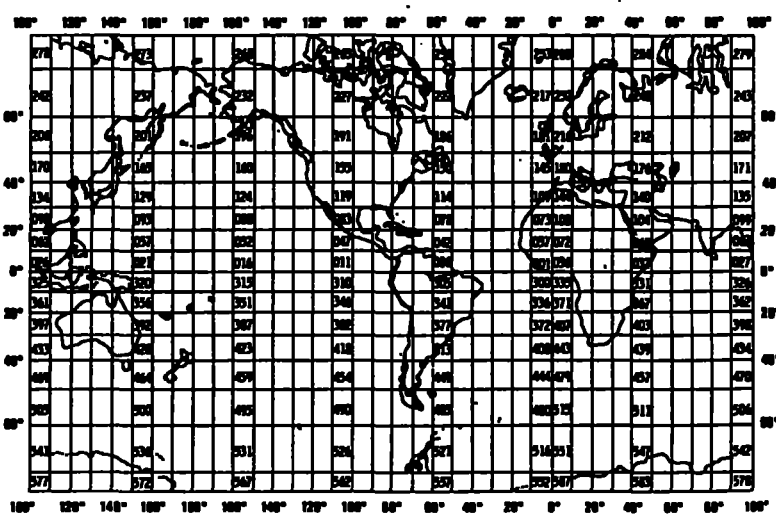
NOAA FORM 24-13  
(4-77)U.S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEANOGRAPHIC DATA CENTER  
RECORDS SECTION  
WASHINGTON, DC 20235FORM APPROVED  
O.M.B. No. 41-R2651  
EXPIRES 1-81

(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<br>U.S. DOC NOAA ERL AOML<br>Miami, Florida  |   |  |   |
| 2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED<br>EPOCS  |   | 3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT<br>N/A                                      |   |
| 4. PLATFORM NAME(S)<br>N/A  | 5. PLATFORM TYPE(S)<br>(E.G., SHIP, BUOY, ETC.)<br>Buoy | 6. PLATFORM AND OPERATOR<br>NATIONALITY(IES)<br>PLATFORM OPERATOR<br>ARGOS USA                                       | 7. DATES<br>FROM: MO/DAY/YR TO: MO/DAY/YR |
| 8. ARE DATA PROPRIETARY?<br><input checked="" type="checkbox"/> NO <input type="checkbox"/> YES<br>IF YES, WHEN CAN THEY BE RELEASED<br>FOR GENERAL USE? YEAR MONTH   |   | 11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED.<br>GENERAL AREA |   |
| 9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)?<br>(I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?)<br><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)<br>DR. DONALD HANSEN   |   |  |   |

|                    |                  |                   |           |
|--------------------|------------------|-------------------|-----------|
| DATE<br>March 1984 | NODC Users Guide | SECTION<br>4.1.20 | PAGE<br>3 |
|--------------------|------------------|-------------------|-----------|

### File structure -

Five 80-character records: (1) Header Record, (2) Launch Summary Record, (3) Data Record, (4) Subsurface Record, and (5) Text Record. Note: This file format supersedes File Format 056; investigators should report new data in this format.

### File format -

#### Lagrangian Current Measurements (F156)

| PARAMETER              | DESCRIPTION  | SC |
|------------------------|--|----|
| HEADER RECORD          | ALWAYS 'A'   | 10 |
| DROGUE NUMBER          | FIVE-CHARACTER FIELD ASSIGNED BY INVESTIGATOR - ANALOGOUS TO STATION NUMBER              | 11 |
| DROGUE TYPE            | FIVE CHARACTER FIELD FOR INDICATING TYPE OF DROGUE - DETERMINED BY INVESTIGATOR          | 16 |
| PRINCIPAL INVESTIGATOR | 19-CHARACTER FIELD FOR NAME OF PRINCIPAL INVESTIGATOR                                    | 21 |
| INSTITUTION OR AGENCY  | 19-CHARACTER FIELD FOR NAME OF INSTITUTION OR AGENCY                                     | 38 |
| PLATFORM NAME          | 12-CHARACTER FIELD FOR NAME OF PLATFORM ACQUIRING DATA OR DEPLOYING BUOY                 | 51 |
| BUOY NUMBER            | 4-CHARACTER FIELD FOR IDENTIFYING THE BUOY ASSOCIATED WITH DROGUE                        | 63 |
| BLANKS                 |  | 67 |
| LAUNCH SUMMARY RECORD  | ALWAYS 'B' - ONLY ONE OF THESE RECORDS SHOULD BE SUBMITTED WITH EACH DROGUE DEPLOYMENT   | 10 |
| DROGUE NUMBER          | SEE RECORD 'A'   | 11 |
| LAUNCH POSITION:       | POSITION AT DEPLOYMENT   |    |
| LATITUDE               | DDMMSS PLUS HEMISPHERE 'N' OR 'S'  | 16 |
| LONGITUDE              | DDMMSS PLUS HEMISPHERE 'E' OR 'W'  | 23 |
| END POSITION:          | POSITION AT PICKUP OR TERMINATION OF OBSERVATIONS  |    |
| LATITUDE               | DDMMSS PLUS HEMISPHERE 'N' OR 'S'  | 31 |
| LONGITUDE              | DDMMSS PLUS HEMISPHERE 'E' OR 'W'  | 38 |
| LAUNCH DATE (GMT)      | YYMMDD   | 45 |
| LAUNCH TIME (GMT)      | XXXX-HOURS AND MINUTES   | 52 |
| END DATE (GMT)         | YYMMDD   | 56 |
| END TIME (GMT)         | XXXX-HOURS AND MINUTES   | 62 |
| DROGUE DEPTH           | XXXX-DEPTH IN METERS   | 66 |
| OBSERVATION FREQUENCY  | XXXX-HOURS AND MINUTES - USE WHEN BUOY POSITIONS ARE REPORTED AT SPECIFIC TIME INTERVALS | 70 |
| BLANKS                 |  | 74 |

|                    |                  |                   |           |
|--------------------|------------------|-------------------|-----------|
| DATE<br>March 1984 | NODC Users Guide | SECTION<br>4.1.20 | PAGE<br>4 |
|--------------------|------------------|-------------------|-----------|

|                      |   |    |
|----------------------|---|----|
| DATA RECORD          | ALWAYS 'C' - EACH RECORD<br>CONTAINS INDIVIDUAL DROGUE<br>POSITION AND ASSOCIATED SEA<br>SURFACE CONDITIONS<br>SEE RECORD 'A'   | 10 |
| DROGUE NUMBER        |   | 11 |
| OBSERVED POSITION    |   |    |
| LATITUDE             | DDMMSS PLUS HEMISPHERE 'N' OR 'S'   | 16 |
| LONGITUDE            | DDMMSS PLUS HEMISPHERE 'E' OR 'W'   | 23 |
| OBSERVED DATE (GMT)  | YYMMDD  | 31 |
| OBSERVED TIME (GMT)  | XXXX-HOURS AND MINUTES  | 37 |
| SURFACE TEMPERATURE  | XXX-DEG C (TO TENTHS)   | 41 |
| SURFACE SALINITY     | XXXX-PARTS PER THOUSAND (TO<br>HUNDREDTHS)  | 44 |
| ATMOSPHERIC PRESSURE | XXXXXX-MILLIBARS (TO HUNDREDTHS)  | 48 |
| WIND SPEED           | XX-METERS PER SECOND  | 54 |
| WIND DIRECTION       | XX-TENS OF DEGREES  | 56 |
| WIND FORCE           | ONE-CHARACTER CODE - USE CODE 0052  | 58 |
| WAVE HEIGHT          | ONE-CHARACTER CODE - USE CODE 0104  | 59 |
| WAVE PERIOD          | ONE-CHARACTER CODE - USE CODE 0378  | 60 |
| SEA STATE            | ONE-CHARACTER CODE - USE CODE 0109  | 61 |
| BOTTOM DEPTH         | XXXX-BOTTOM DEPTH AT REPORTED BUOY<br>POSITION (DEPTH IN METERS)  | 62 |
| AIR TEMPERATURE      | XXXX - DEG C TO TENTHS. NEGATIVE<br>VALUES PRECEDED BY MINUS SIGN   | 66 |
| BLANKS               |   | 70 |
| SEQUENCE NUMBER      | XXXX-USE TO SORT RECORDS<br>FOR EACH DROGUE/BUOY - SEQUENCE NUMBERS<br>SHOULD BE IN ASCENDING ORDER   | 77 |
| SUBSURFACE RECORD    | ALWAYS 'D' - EACH RECORD CONTAINS<br>SUBSURFACE DATA ASSOCIATED WITH<br>THE DROGUES.<br>SEE RECORD 'A'  | 10 |
| DROGUE NUMBER        |   | 11 |
| DEPTH                | XXXXX - METERS TO HUNDREDTHS  | 13 |
| PRESSURE             | XXXXX - DECIBARS TO HUNDREDTHS  | 21 |
| TEMPERATURE          | XXX - DEG C TO TENTHS. NEGATIVE<br>VALUES PRECEDED BY MINUS SIGN  | 26 |
| DEPTH                | XXXXX - METERS TO HUNDREDTHS  | 29 |
| PRESSURE             | XXXXX - DECIBARS TO HUNDREDTHS  | 34 |
| TEMPERATURE          | XXX - DEG C TO TENTHS   | 39 |
| DEPTH                | XXXXX - METERS TO HUNDREDTHS  | 42 |
| PRESSURE             | XXXXX - DECIBARS TO HUNDREDTHS  | 47 |
| TEMPERATURE          | XXX - DEG C TO TENTHS   | 52 |
| DEPTH                | XXXXX - METERS TO HUNDREDTHS  | 55 |
| PRESSURE             | XXXXX - DECIBARS TO HUNDREDTHS  | 60 |
| TEMPERATURE          | XXX - DEG C TO TENTHS   | 65 |
| BLANKS               |   | 68 |
| SEQUENCE NUMBER      | XXXX - SEE ABOVE  | 77 |
| TEXT RECORD          | ALWAYS 'T' - USE FOR COMMENTS<br>AND OTHER INFORMATION<br>SEE RECORD 'A'  | 10 |
| DROGUE NUMBER        |   | 11 |
| TEXT                 | 01-CHARACTER FIELD FOR COMMENTS-<br>MULTIPLE TEXT RECORDS MAY BE<br>USED TO DESCRIBE INDIVIDUAL DROGUE<br>OBSERVATIONS OR FOR GENERAL COMMENTS<br>TEXT RECORDS MAY BE INSERTED BETWEEN OR<br>FOLLOW DATA RECORDS DEPENDING ON THE<br>NATURE OF THE COMMENTS. THE ORDER<br>OF SEQUENCE NUMBERS SHOULD REFLECT<br>THE PROPER SORTING OF COMBINED<br>DATA AND TRACK RECORDS FOR EACH<br>DROGUE/BUOY. | 16 |
| SEQUENCE NUMBER      |   | 77 |

10 May 1988

MEMORANDUM FOR: Phil Hadsell

FROM: Steven Patterson

SUBJECT: Text Records in Accession # B600398

Yesterday Mayra Pazos of ADML (FTS 350-1422) returned my call in which I inquired about the contents of the text records ("T" records) in Don Hansen's drifting buoy data (accession # B600398). Don uses an optimal interpolation routine (called "Krig") to smooth the raw drifting buoy data and to interpolate values at a uniform 6 hour interval. This technique automatically provides an estimate of the error in the interpolated values. On the text record (e.g., "LAT KRIGGED ERR .0053 LON K ERR .0057 TP K ERR 0.1249"), the estimated error in latitude and longitude are provided in degrees to four decimal places, and the error in temperature in degrees Celsius to four decimal places.

8600398

| ACCESS<br>NUMBER | REF<br>NUMBER | FILE<br>TYPE | PROJ<br>CODE | INST | PLAT | CRUISE<br>NO | CRUISE<br>START | CRUISE<br>END | NUM<br>STA | NUM<br>REC |
|------------------|---------------|--------------|--------------|------|------|--------------|-----------------|---------------|------------|------------|
| 8600398          | TT9355        | F156         | 0106         | 311A | 32DB | 4403         | 11/03/83        | 09/26/84      | 1          | 2,626      |
| 8600398          | TT9356        | F156         | 0106         | 311A | 32DB | 4404         | 11/08/82        | 05/09/84      | 1          | 4,386      |
| 8600398          | TT9357        | F156         | 0106         | 311A | 32DB | 4405         | 11/13/82        | 02/14/84      | 1          | 3,666      |
| 8600398          | TT9358        | F156         | 0106         | 311A | 32DB | 4406         | 06/24/83        | 09/25/84      | 1          | 3,674      |
| 8600398          | TT9359        | F156         | 0106         | 311A | 32DB | 4407         | 04/21/83        | 06/21/83      | 1          | 490        |
| 8600398          | TT9360        | F156         | 0106         | 311A | 32DB | 4408         | 04/05/83        | 01/31/84      | 1          | 2,410      |
| 8600398          | TT9361        | F156         | 0106         | 311A | 32DB | 4409         | 05/22/83        | 06/20/83      | 1          | 234        |
| 8600398          | TT9362        | F156         | 0106         | 311A | 32DB | 4411         | 03/23/83        | 05/27/83      | 1          | 522        |
| 8600398          | TT9363        | F156         | 0106         | 311A | 32DB | 4413         | 03/27/83        | 07/01/83      | 1          | 770        |
| 8600398          | TT9364        | F156         | 0106         | 311A | 32DB | 4414         | 04/01/83        | 08/10/84      | 1          | 3,978      |
| 8600398          | TT9365        | F156         | 0106         | 311A | 32DB | 4415         | 05/19/83        | 08/10/84      | 1          | 3,594      |
| 8600398          | TT9366        | F156         | 0106         | 311A | 32DB | 4416         | 03/24/83        | 10/25/84      | 1          | 4,650      |
| 8600398          | TT9367        | F156         | 0106         | 311A | 32DB | 4417         | 03/28/83        | 04/08/83      | 1          | 90         |

ACCESSION NO. 8600398 FILETYPE F156

TRACK NO. \_\_\_\_\_

PROJECT IDENTIFICATION EPOCS

TT9355-67

| STEP               | DATE    | INIT.  | TAPE OR<br>DISK DSN | NO.<br>FILES | NO.<br>RECL | BLK<br>SIZE | NO.<br>RECORDS |
|--------------------|---------|--------|---------------------|--------------|-------------|-------------|----------------|
| ORIG. TAPE         | 5-7-87  | I.E.G. | A00381              | 1            | 80          | 80          | 31,090         |
| DUPLICATE TAPE     | ↓       | ↓      | W13567*             | 1            | 80          | 4000        | ↓              |
| REFORMATTED TAPE   |         |        |                     |              |             |             |                |
| REFORMATTED DISK   | 4-20-89 | FJM    | DNODC* SIX OUT.     | 1            | 80          | 224         | 31,090         |
| FIRST MULCHEK      |         |        |                     |              |             |             |                |
| FINAL MULCHEK      |         |        |                     |              |             |             |                |
| MPD75 OR F022      |         |        |                     |              |             |             |                |
| DATA SET FINALIZED |         |        |                     |              |             |             |                |

ERRORS REPORTED TO PRINCIPAL INVESTIGATOR:

\* LABEL: DNODC\* 8600398-07.

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

COMMENTS (TRACKS DELETED, FIELDS DELETED, ETC.)



Reference #

TT 9355-9367

NUMBER

8600398

## DATA DOCUMENTATION FORM

AOML

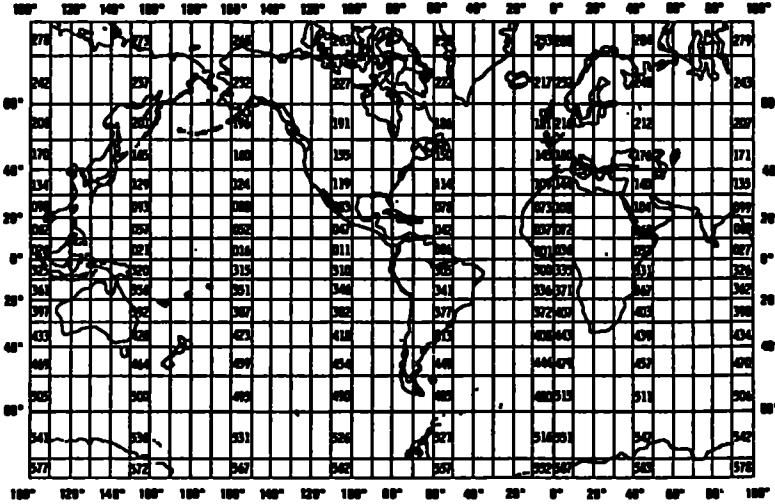
NOAA FORM 24-13  
(4-77)U.S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEANOGRAPHIC DATA CENTER  
RECORDS SECTION  
WASHINGTON, DC 20235FORM APPROVED  
O.M.B. No. 41-R2651  
EXPIRES 1-81

(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<br><i>U.S. DOC NOAA ERL AOML</i><br><i>Miami, Florida</i>  |  |  |   |
| 2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED<br><i>EPOCS</i>   |  | 3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT<br><i>N/A</i>   |   |
| 4. PLATFORM NAME(S)<br><i>N/A</i>   | 5. PLATFORM TYPE(S)<br>(E.G., SHIP, BUOY, ETC.)<br><i>BUOY</i> | 6. PLATFORM AND OPERATOR<br>NATIONALITY(IES)<br>PLATFORM OPERATOR<br><i>ARGOS USA</i>  | 7. DATES<br>FROM: MO, DAY, YR TO: MO, DAY, YR |
| 8. ARE DATA PROPRIETARY?<br><input checked="" type="checkbox"/> NO <input type="checkbox"/> YES<br>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.<br><br>GENERAL AREA<br> |   |
| 9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)?<br>(I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?)<br><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)<br><i>DR. DONALD HANSEN</i>  |  |  |   |

|                    |                  |                   |           |
|--------------------|------------------|-------------------|-----------|
| DATE<br>March 1984 | NODC Users Guide | SECTION<br>4.1.20 | PAGE<br>3 |
|--------------------|------------------|-------------------|-----------|

### File structure -

Five 80-character records: (1) Header Record, (2) Launch Summary Record, (3) Data Record, (4) Subsurface Record, and (5) Text Record. Note: This file format supersedes File Format 056; investigators should report new data in this format.

### File format -

#### Lagrangian Current Measurements (F156)

| PARAMETER              | DESCRIPTION  | SC |
|------------------------|--|----|
| HEADER RECORD          | ALWAYS 'A'   | 10 |
| DROGUE NUMBER          | FIVE-CHARACTER FIELD ASSIGNED BY INVESTIGATOR - ANALOGOUS TO STATION NUMBER              | 11 |
| DROGUE TYPE            | FIVE CHARACTER FIELD FOR INDICATING TYPE OF DROGUE - DETERMINED BY INVESTIGATOR          | 16 |
| PRINCIPAL INVESTIGATOR | 19-CHARACTER FIELD FOR NAME OF PRINCIPAL INVESTIGATOR                                    | 21 |
| INSTITUTION OR AGENCY  | 19-CHARACTER FIELD FOR NAME OF INSTITUTION OR AGENCY                                     | 36 |
| PLATFORM NAME          | 12-CHARACTER FIELD FOR NAME OF PLATFORM ACQUIRING DATA OR DEPLOYING BUOY                 | 51 |
| BUOY NUMBER            | 4-CHARACTER FIELD FOR IDENTIFYING THE BUOY ASSOCIATED WITH DROGUE                        | 63 |
| BLANKS                 |  | 67 |
| LAUNCH SUMMARY RECORD  | ALWAYS 'B' - ONLY ONE OF THESE RECORDS SHOULD BE SUBMITTED WITH EACH DROGUE DEPLOYMENT   | 10 |
| DROGUE NUMBER          | SEE RECORD 'A'   | 11 |
| LAUNCH POSITION:       | POSITION AT DEPLOYMENT   |    |
| LATITUDE               | DDMMSS PLUS HEMISPHERE 'N' OR 'S'  | 16 |
| LONGITUDE              | DDMMSS PLUS HEMISPHERE 'E' OR 'W'  | 23 |
| END POSITION:          | POSITION AT PICKUP OR TERMINATION OF OBSERVATIONS  |    |
| LATITUDE               | DDMMSS PLUS HEMISPHERE 'N' OR 'S'  | 31 |
| LONGITUDE              | DDMMSS PLUS HEMISPHERE 'E' OR 'W'  | 38 |
| LAUNCH DATE (GMT)      | YYMMDD   | 45 |
| LAUNCH TIME (GMT)      | XXXX-HOURS AND MINUTES   | 52 |
| END DATE (GMT)         | YYMMDD   | 56 |
| END TIME (GMT)         | XXXX-HOURS AND MINUTES   | 52 |
| DROGUE DEPTH           | XXXX-DEPTH IN METERS   | 66 |
| OBSERVATION            | XXXX-HOURS AND MINUTES - USE WHEN BUOY POSITIONS ARE REPORTED AT SPECIFIC TIME INTERVALS | 70 |
| FREQUENCY              |  |    |
| BLANKS                 |  | 74 |

|                           |                         |                          |                  |
|---------------------------|-------------------------|--------------------------|------------------|
| <b>DATE</b><br>March 1984 | <b>NODC Users Guide</b> | <b>SECTION</b><br>4.1.20 | <b>PAGE</b><br>4 |
|---------------------------|-------------------------|--------------------------|------------------|

|                          |   |           |
|--------------------------|---|-----------|
| <b>DATA RECORD</b>       | <b>ALWAYS 'C' - EACH RECORD CONTAINS INDIVIDUAL DROGUE POSITION AND ASSOCIATED SEA SURFACE CONDITIONS</b>   | <b>10</b> |
| DROGUE NUMBER            | SEE RECORD 'A'  | 11        |
| OBSERVED POSITION        |   |           |
| LATITUDE                 | DDMMSS PLUS HEMISPHERE 'N' OR 'S'   | 18        |
| LONGITUDE                | DDMMSS PLUS HEMISPHERE 'E' OR 'W'   | 23        |
| OBSERVED DATE (GMT)      | YYMMDD  | 31        |
| OBSERVED TIME (GMT)      | XXXX-HOURS AND MINUTES  | 37        |
| SURFACE TEMPERATURE      | XXX-DEG C (TO TENTHS)   | 41        |
| SURFACE SALINITY         | XXXX-PARTS PER THOUSAND (TO HUNDREDTHS)   | 44        |
| ATMOSPHERIC PRESSURE     | XXXXXX-MILLIBARS (TO HUNDREDTHS)  | 48        |
| WIND SPEED               | XX-METERS PER SECOND  | 54        |
| WIND DIRECTION           | XX-TENS OF DEGREES  | 56        |
| WIND FORCE               | ONE-CHARACTER CODE - USE CODE 0052  | 58        |
| WAVE HEIGHT              | ONE-CHARACTER CODE - USE CODE 0104  | 59        |
| WAVE PERIOD              | ONE-CHARACTER CODE - USE CODE 0378  | 60        |
| SEA STATE                | ONE-CHARACTER CODE - USE CODE 0109  | 61        |
| BOTTOM DEPTH             | XXXX-BOTTOM DEPTH AT REPORTED BUOY POSITION (DEPTH IN METERS)   | 62        |
| AIR TEMPERATURE          | XXXX - DEG C TO TENTHS. NEGATIVE VALUES PRECEDED BY MINUS SIGN  | 66        |
| BLANKS                   |   | 70        |
| SEQUENCE NUMBER          | XXXX-USE TO SORT RECORDS FOR EACH DROGUE/BUOY - SEQUENCE NUMBERS SHOULD BE IN ASCENDING ORDER   | 77        |
| <b>SUBSURFACE RECORD</b> | <b>ALWAYS 'D' - EACH RECORD CONTAINS SUBSURFACE DATA ASSOCIATED WITH THE DROGUES.</b>   | <b>10</b> |
| DROGUE NUMBER            | SEE RECORD 'A'  | 11        |
| DEPTH                    | XXXX - METERS TO HUNDREDTHS   | 13        |
| PRESSURE                 | XXXXX - DECIBARS TO HUNDREDTHS  | 21        |
| TEMPERATURE              | XXX - DEG C TO TENTHS. NEGATIVE VALUES PRECEDED BY MINUS SIGN   | 26        |
| DEPTH                    | XXXXX - METERS TO HUNDREDTHS  | 29        |
| PRESSURE                 | XXXXX - DECIBARS TO HUNDREDTHS  | 34        |
| TEMPERATURE              | XXX - DEG C TO TENTHS   | 39        |
| DEPTH                    | XXXXX - METERS TO HUNDREDTHS  | 42        |
| PRESSURE                 | XXXXX - DECIBARS TO HUNDREDTHS  | 47        |
| TEMPERATURE              | XXX - DEG C TO TENTHS   | 52        |
| DEPTH                    | XXXXX - METERS TO HUNDREDTHS  | 55        |
| PRESSURE                 | XXXXX - DECIBARS TO HUNDREDTHS  | 60        |
| TEMPERATURE              | XXX - DEG C TO TENTHS   | 65        |
| BLANKS                   |   | 68        |
| SEQUENCE NUMBER          | XXXX - SEE ABOVE  | 77        |
| <b>TEXT RECORD</b>       | <b>ALWAYS 'T' - USE FOR COMMENTS AND OTHER INFORMATION</b>  | <b>10</b> |
| DROGUE NUMBER            | SEE RECORD 'A'  | 11        |
| TEXT                     | 61-CHARACTER FIELD FOR COMMENTS - MULTIPLE TEXT RECORDS MAY BE USED TO DESCRIBE INDIVIDUAL DROGUE OBSERVATIONS OR FOR GENERAL COMMENTS  | 16        |
| SEQUENCE NUMBER          | TEXT RECORDS MAY BE INSERTED BETWEEN OR FOLLOW DATA RECORDS DEPENDING ON THE NATURE OF THE COMMENTS. THE ORDER OF SEQUENCE NUMBERS SHOULD REFLECT THE PROPER SORTING OF COMBINED DATA AND TRACK RECORDS FOR EACH DROGUE/BUOY. | 77        |

## TRANSMITTAL AND RECEIPT RECORD

(Please sign and return carbon copy acknowledging receipt)

|  |                          |
|--|--------------------------|
| Data Rec. & Mgmt. Branch<br>E/OC13 Universal Bldg.<br>Wash. DC 20235 | REFER TO                 |
|  | ATTENTION<br>F. Mitchell |

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

☒ ORDINARY MAIL    ☐ REGISTERED MAIL    ☐ AIR MAIL    ☐ CERTIFIED MAIL    ☐ GOVERNMENT TRUCK    ☐ BY HAND    ☐ OTHER

EPOCS / FGGE Drifting buoy data; Feb. 1979 thru Oct. 1980.  
Tapes 1 & 2.

EPOCS Drifting Buoy data; Nov. 1981 thru Dec. 1983  
Tapes 1, 2, 3 & 4.

EPOCS Drifting buoy data; Aug. 1980 thru Apr. 1982.  
Tapes 1 & 2.

Data due in FT 156. Please consult the  
data processing information in the data  
reports (forwarded under separate cover).

Acc #s      8600398

Ref. #s      A00375, A00376, A00377, A00378  
A00379, A00380, A00381, A00382

|  |                   |                           |
|--|-------------------|---------------------------|
| FORWARDED BY (Signature)<br><i>John C. Hyatt</i> | TITLE<br>S.E.L.O. | DATE FORWARDED<br>12-8-86 |
| RECEIVED BY (Signature) /                        | TITLE             | DATE RECEIVED             |

TO DONALD HILSON

S. VAPES

10 May 1988

MEMORANDUM FOR: Phil Hadsell

FROM: Steven Patterson

SUBJECT: Text Records in Accession # 8600398

Yesterday Mayra Pazos of ADML (FTS 350-1422) returned my call in which I inquired about the contents of the text records ("T" records) in Don Hansen's drifting buoy data (accession # 8600398). Don uses an optimal interpolation routine (called "Krig") to smooth the raw drifting buoy data and to interpolate values at a uniform 6 hour interval. This technique automatically provides an estimate of the error in the interpolated values. On the text record (e.g., "LAT KRIGGED ERR .0053 LON K ERR .0057 TP K ERR 0.1249"), the estimated error in latitude and longitude are provided in degrees to four decimal places, and the error in temperature in degrees Celsius to four decimal places.

8600398

A00378

| PROCESS<br>NUMBER | REF<br>NUMBER | FILE<br>TYPE | PROJ<br>CODE | INST | PLAT | CRUISE<br>NO | CRUISE<br>START | CRUISE<br>END | NUM<br>STA | NUM<br>REC |
|-------------------|---------------|--------------|--------------|------|------|--------------|-----------------|---------------|------------|------------|
| 8600398           | TT9492        | F156         | 0106         | 311A | 32DB | 2220         | 06/08/79        | 09/05/79      | 1          | 714        |
| 8600398           | TT9493        | F156         | 0106         | 311A | 32DB | 2222         | 06/07/79        | 05/22/80      | 1          | 2,802      |
| 8600398           | TT9494        | F156         | 0106         | 311A | 32DB | 2223         | 06/07/79        | 08/16/79      | 1          | 562        |
| 8600398           | TT9495        | F156         | 0106         | 311A | 32DB | 2225         | 06/08/79        | 07/29/80      | 1          | 3,338      |
| 8600398           | TT9496        | F156         | 0106         | 311A | 32DB | 2226         | 12/17/79        | 10/24/80      | 1          | 2,498      |
| 8600398           | TT9497        | F156         | 0106         | 311A | 32DB | 2229         | 12/11/79        | 07/21/81      | 1          | 4,706      |
| 8600398           | TT9498        | F156         | 0106         | 311A | 32DB | 2231         | 01/24/80        | 09/01/80      | 1          | 1,770      |
| 8600398           | TT9499        | F156         | 0106         | 311A | 32DB | 2232         | 01/25/80        | 12/01/81      | 1          | 5,378      |
| 8600398           | TT9500        | F156         | 0106         | 311A | 32DB | 2233         | 12/17/79        | 08/18/80      | 1          | 1,962      |
| 8600398           | TT9501        | F156         | 0106         | 311A | 32DB | 2235         | 12/11/79        | 05/16/80      | 1          | 1,258      |
| 8600398           | TT9502        | F156         | 0106         | 311A | 32DB | 2236         | 12/17/79        | 02/18/81      | 1          | 3,434      |
| 8600398           | TT9503        | F156         | 0106         | 311A | 32DB | 2251         | 06/12/79        | 02/14/80      | 1          | 1,978      |
| 8600398           | TT9504        | F156         | 0106         | 311A | 32DB | 2252         | 06/13/79        | 02/16/80      | 1          | 1,986      |
| 8600398           | TT9505        | F156         | 0106         | 311A | 32DB | 2254         | 06/10/79        | 08/08/80      | 1          | 3,402      |
| 8600398           | TT9506        | F156         | 0106         | 311A | 32DB | 2255         | 06/14/79        | 07/21/79      | 1          | 298        |
| 8600398           | TT9507        | F156         | 0106         | 311A | 32DB | 2257         | 06/07/79        | 06/21/80      | 1          | 3,042      |

ACCESSION NO. 8600398 FILETYPE F156 TRACK NO. \_\_\_\_\_

PROJECT IDENTIFICATION EPACS

TT9492-9507

| STEP               | DATE    | INIT.                            | TAPE OR<br>DISK DSN | NO.<br>FILES | RECL | BLK SIZE | NO.<br>RECORDS |
|--------------------|---------|----------------------------------|---------------------|--------------|------|----------|----------------|
| ORIG. TAPE         | 4-6-87  | <del>IEG</del> <del>A00378</del> | A00378              | 1            | 80   | 8000     | 39,128<br>#1   |
| DUPLICATE TAPE     | 4-6-87  | IEG                              | W13305 X            | 1            | ↓    | ↓        | 39,128         |
| REFORMATTED TAPE   |         |                                  |                     |              |      |          |                |
| REFORMATTED DISK   | 4-27-89 | FJM                              | DNODCXEIGHTOUT.     | 1            | 80   | 224      | 39,128         |
| FIRST MULCHEK      |         |                                  |                     |              |      |          |                |
| FINAL MULCHEK      |         |                                  |                     |              |      |          |                |
| MPD75 OR F022      |         |                                  |                     |              |      |          |                |
| DATA SET FINALIZED |         |                                  |                     |              |      |          |                |

ERRORS REPORTED TO PRINCIPAL INVESTIGATOR:

\* = NO LABEL

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

COMMENTS (TRACKS DELETED, FIELDS DELETED, ETC.)

10 May 1988

MEMORANDUM FOR: Phil Hadsell

FROM: Steven Patterson

SUBJECT: Text Records in Accession # 8600398

Yesterday Mayra Pazos of ADML (FTS 350-1422) returned my call in which I inquired about the contents of the text records ("T" records) in Don Hansen's drifting buoy data (accession # 8600398). Don uses an optimal interpolation routine (called "Krig") to smooth the raw drifting buoy data and to interpolate values at a uniform 6 hour interval. This technique automatically provides an estimate of the error in the interpolated values. On the text record (e.g., "LAT KRIGGED ERR .0053 LON K ERR .0057 TP K ERR 0.1249"), the estimated error in latitude and longitude are provided in degrees to four decimal places, and the error in temperature in degrees Celsius to four decimal places.



## DATA DOCUMENTATION FORM

F156

NOAA FORM 24-13  
(4-77)U.S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEANOGRAPHIC DATA CENTER  
RECORDS SECTION  
WASHINGTON, DC 20235FORM 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<br>Donald Hansen<br>USDOC NOAA ERL AOML<br>Miami, Florida  |   |  |  |
| 2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED<br><del>TELE</del> / EPOCS  |   | 3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT<br>N/A                                      |  |
| 4. PLATFORM NAME(S)<br>N/A  | 5. PLATFORM TYPE(S)<br>(E.G., SHIP, BUOY, ETC.)<br>BUOY | 6. PLATFORM AND OPERATOR NATIONALITY(IES)<br>PLATFORM OPERATOR<br>USA USA  | 7. DATES<br>FROM: MO/DAY/YR TO: MO/DAY/YR<br>06/05/79 06/21/80 |
| 8. ARE DATA PROPRIETARY?<br><input checked="" type="checkbox"/> NO <input type="checkbox"/> YES<br>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.<br>GENERAL AREA |  |
| 9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)?<br>(I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?)<br><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)<br>Donald Hansen   |   |  |  |

|                    |                  |                   |           |
|--------------------|------------------|-------------------|-----------|
| DATE<br>March 1984 | NODC Users Guide | SECTION<br>4.1.20 | PAGE<br>3 |
|--------------------|------------------|-------------------|-----------|

### File structure -

Five 80-character records: (1) Header Record, (2) Launch Summary Record, (3) Data Record, (4) Subsurface Record, and (5) Text Record. Note: This file format supersedes File Format 056; investigators should report new data in this format.

### File format -

#### Lagrangian Current Measurements (F156)

| PARAMETER              | DESCRIPTION  | SC |
|------------------------|--|----|
| HEADER RECORD          | ALWAYS 'A'   | 10 |
| DROGUE NUMBER          | FIVE-CHARACTER FIELD ASSIGNED BY INVESTIGATOR - ANALOGOUS TO STATION NUMBER              | 11 |
| DROGUE TYPE            | FIVE CHARACTER FIELD FOR INDICATING TYPE OF DROGUE - DETERMINED BY INVESTIGATOR          | 16 |
| PRINCIPAL INVESTIGATOR | 18-CHARACTER FIELD FOR NAME OF PRINCIPAL INVESTIGATOR                                    | 21 |
| INSTITUTION OR AGENCY  | 18-CHARACTER FIELD FOR NAME OF INSTITUTION OR AGENCY                                     | 38 |
| PLATFORM NAME          | 12-CHARACTER FIELD FOR NAME OF PLATFORM ACQUIRING DATA OR DEPLOYING BUOY                 | 51 |
| BUOY NUMBER            | 4-CHARACTER FIELD FOR IDENTIFYING THE BUOY ASSOCIATED WITH DROGUE                        | 63 |
| BLANKS                 |  | 67 |
| LAUNCH SUMMARY RECORD  | ALWAYS 'B' - ONLY ONE OF THESE RECORDS SHOULD BE SUBMITTED WITH EACH DROGUE DEPLOYMENT   | 10 |
| DROGUE NUMBER          | SEE RECORD 'A'   | 11 |
| LAUNCH POSITION:       | POSITION AT DEPLOYMENT   |    |
| LATITUDE               | DDMMSS PLUS HEMISPHERE 'N' OR 'S'  | 15 |
| LONGITUDE              | DDMMSS PLUS HEMISPHERE 'E' OR 'W'  | 23 |
| END POSITION:          | POSITION AT PICKUP OR TERMINATION OF OBSERVATIONS  |    |
| LATITUDE               | DDMMSS PLUS HEMISPHERE 'N' OR 'S'  | 31 |
| LONGITUDE              | DDMMSS PLUS HEMISPHERE 'E' OR 'W'  | 38 |
| LAUNCH DATE (GMT)      | YYMMDD   | 45 |
| LAUNCH TIME (GMT)      | XXXX-HOURS AND MINUTES   | 52 |
| END DATE (GMT)         | YYMMDD   | 56 |
| END TIME (GMT)         | XXXX-HOURS AND MINUTES   | 62 |
| DROGUE DEPTH           | XXXX-DEPTH IN METERS   | 66 |
| OBSERVATION            | XXXX-HOURS AND MINUTES - USE WHEN BUOY POSITIONS ARE REPORTED AT SPECIFIC TIME INTERVALS | 70 |
| FREQUENCY              |  |    |
| BLANKS                 |  | 74 |

DATE  
March 1984

# NODC Users Guide

SECTION  
4.1.20

PAGE  
4

|                      |   |    |
|----------------------|---|----|
| DATA RECORD          | ALWAYS 'C' - EACH RECORD<br>CONTAINS INDIVIDUAL DROGUE<br>POSITION AND ASSOCIATED SEA<br>SURFACE CONDITIONS<br>SEE RECORD 'A'   | 10 |
| DROGUE NUMBER        |   | 11 |
| OBSERVED POSITION    |   |    |
| LATITUDE             | DDMMSS PLUS HEMISPHERE 'N' OR 'S'   | 18 |
| LONGITUDE            | DDMMSS PLUS HEMISPHERE 'E' OR 'W'   | 23 |
| OBSERVED DATE (GMT)  | YYMMDD  | 31 |
| OBSERVED TIME (GMT)  | XXXX-HOURS AND MINUTES  | 37 |
| SURFACE TEMPERATURE  | XXX-DEG C (TO TENTHS)   | 41 |
| SURFACE SALINITY     | XXXX-PARTS PER THOUSAND (TO<br>HUNDREDTHS)  | 44 |
| ATMOSPHERIC PRESSURE | XXXXXX-MILLIBARS (TO HUNDREDTHS)  | 48 |
| WIND SPEED           | XX-METERS PER SECOND  | 54 |
| WIND DIRECTION       | XX-TENS OF DEGREES  | 56 |
| WIND FORCE           | ONE-CHARACTER CODE - USE CODE 0052  | 58 |
| WAVE HEIGHT          | ONE-CHARACTER CODE - USE CODE 0104  | 59 |
| WAVE PERIOD          | ONE-CHARACTER CODE - USE CODE 0378  | 60 |
| SEA STATE            | ONE-CHARACTER CODE - USE CODE 0108  | 61 |
| BOTTOM DEPTH         | XXXX-BOTTOM DEPTH AT REPORTED BUOY<br>POSITION (DEPTH IN METERS)  | 62 |
| AIR TEMPERATURE      | XXXX - DEG C TO TENTHS. NEGATIVE<br>VALUES PRECEDED BY MINUS SIGN   | 66 |
| BLANKS               |   | 70 |
| SEQUENCE NUMBER      | XXXX-USE TO SORT RECORDS<br>FOR EACH DROGUE/BUOY - SEQUENCE NUMBERS<br>SHOULD BE IN ASCENDING ORDER   | 77 |
| SUBSURFACE RECORD    | ALWAYS 'D' - EACH RECORD CONTAINS<br>SUBSURFACE DATA ASSOCIATED WITH<br>THE DROGUES.  | 10 |
| DROGUE NUMBER        | SEE RECORD 'A'  | 11 |
| DEPTH                | XXXXX - METERS TO HUNDREDTHS  | 13 |
| PRESSURE             | XXXXX - DECIBARS TO HUNDREDTHS  | 21 |
| TEMPERATURE          | XXX - DEG C TO TENTHS. NEGATIVE<br>VALUES PRECEDED BY MINUS SIGN  | 28 |
| DEPTH                | XXXXX - METERS TO HUNDREDTHS  | 29 |
| PRESSURE             | XXXXX - DECIBARS TO HUNDREDTHS  | 34 |
| TEMPERATURE          | XXA - DEG C TO TENTHS   | 39 |
| DEPTH                | XXXXX - METERS TO HUNDREDTHS  | 42 |
| PRESSURE             | XXXXX - DECIBARS TO HUNDREDTHS  | 47 |
| TEMPERATURE          | XXX - DEG C TO TENTHS   | 52 |
| DEPTH                | XXXXX - METERS TO HUNDREDTHS  | 55 |
| PRESSURE             | XXXXX - DECIBARS TO HUNDREDTHS  | 60 |
| TEMPERATURE          | XXX - DEG C TO TENTHS   | 65 |
| BLANKS               |   | 68 |
| SEQUENCE NUMBER      | XXXX - SEE ABOVE  | 77 |
| TEXT RECORD          | ALWAYS 'T' - USE FOR COMMENTS<br>AND OTHER INFORMATION  | 10 |
| DROGUE NUMBER        | SEE RECORD 'A'  | 11 |
| TEXT                 | 81-CHARACTER FIELD FOR COMMENTS-<br>MULTIPLE TEXT RECORDS MAY BE<br>USED TO DESCRIBE INDIVIDUAL DROGUE<br>OBSERVATIONS OR FOR GENERAL COMMENTS<br>TEXT RECORDS MAY BE INSERTED BETWEEN OR<br>FOLLOW DATA RECORDS DEPENDING ON THE<br>NATURE OF THE COMMENTS. THE ORDER<br>OF SEQUENCE NUMBERS SHOULD REFLECT<br>THE PROPER SORTING OF COMBINED<br>DATA AND TRACK RECORDS FOR EACH<br>DROGUE/BUOY. | 16 |
| SEQUENCE NUMBER      |   | 77 |

## TRANSMITTAL AND RECEIPT RECORD

(Please sign and return carbon copy acknowledging receipt)

Dep. Dir. & Mgmt. Branch  
E/OC 13, Universal Bldg.  
Wash. DC. 20235

REFER TO

ATTENTION

F. Mitchell

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

☒ ORDINARY  
MAIL☐ REGISTERED  
MAIL☐ AIR  
MAIL☐ CERTIFIED  
MAIL☐ GOVERNMENT  
TRUCK☐ BY HAND☐ OTHER

EPOCS / FGGE Drifting buoy data; Feb. 1979 thru Oct. 1980.  
Tapes 1 & 2.

EPOCS Drifting Buoy data; Nov. 1981 thru Dec. 1983  
Tapes 1, 2, 3 & 4.

EPOCS Drifting buoy data; Aug. 1980 thru Apr. 1982.  
Tapes 1 & 2.

Data are in FT 156. Please consult the  
data processing information in the data  
reports (forwarded under separate cover).

Acc #s 8600398

Ref. #s A00375, A00376, A00377, A00378  
A00379, A00380, A00381, A00382

FORWARDED BY (Signature)



TITLE

S.E.L.O.

DATE FORWARDED

12-8-86

RECEIVED BY (Signature)

TITLE

DATE RECEIVED

J. DONALD HANSON

S. VAPES

## INVENTORY

Record 17831 on screen  
165544

Record found

DATA ENTRY INFORMATION SYSTEM  
(DATASET INVENTORY)

SJH

8600398

DATE OF ENTRY: 05/27/87

REFERENCE NUMBER: TT9508

ACCESSION NUMBER: 8600398

FORMER REFERENCE NUMBER:

FORMER ACCESSION NUMBER:

(RESUB ONLY)

## INVENTORY

MEDIA-IN: 01 - Digital Magnetic Tape

DINDB CODE 09

EXCHANGE (FORMAT): E060 - Drifting Buoys, Surface (F156)

PROCESSING (FORMAT): F156 - Drifting Buoys, Surface

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

INSTITUTE (COUNTRY AND INSTITUTE CODES): 311A

PLATFORM (COUNTRY AND PLATFORM CODES): 32DB

PLATFORM TYPE: 3 - Buoy

DINDB CODE 03

ORIGINATORS FILE ID:

ORIGINATORS CRUISE ID: 2171

CRUISE START DATE: 06/18/81

CRUISE END DATE: 08/29/82

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:

1

NUMBER OF RECORDS:

3,498

If STA/REC counts are not appropriate then enter -

NUMBER:

UNITS:

AVERAGE REC SIZE:

80

MBYTES:

0.279840

## 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 17832 on screen  
165545

Record found

DATA ENTRY INFORMATION SYSTEM  
(DATASET INVENTORY)

SJH

OF ENTRY: 05/27/87

REFERENCE NUMBER: TT9509

ACCESSION NUMBER: 8600398

FORMER REFERENCE NUMBER:

FORMER ACCESSION NUMBER:

(RESUB ONLY)

## INVENTORY

MEDIA-IN: 01 - Digital Magnetic Tape

DINDB CODE 09

EXCHANGE (FORMAT): E060 - Drifting Buoys, Surface (F156)

PROCESSING (FORMAT): F156 - Drifting Buoys, Surface

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

INSTITUTE (COUNTRY AND INSTITUTE CODES): 311A

PLATFORM (COUNTRY AND PLATFORM CODES): 32DB

PLATFORM TYPE: 3 - Buoy

DINDB CODE 03

ORIGINATORS FILE ID:

ORIGINATORS CRUISE ID: 2173

CRUISE START DATE: 09/10/80

CRUISE END DATE: 09/22/81

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:

1

NUMBER OF RECORDS:

3,018

If STA/REC counts are not appropriate then enter -

NUMBER:

UNITS:

AVERAGE REC SIZE:

80

MBYTES:

0.241440

## 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 found

Record 17833 on screen  
165546DATA ENTRY INFORMATION SYSTEM  
(DATASET INVENTORY)

SJH

OF ENTRY: 05/27/87

REFERENCE NUMBER: TT9510

ACCESSION NUMBER: 8600398

FORMER REFERENCE NUMBER:

FORMER ACCESSION NUMBER:

(RESUB ONLY)

## INVENTORY

MEDIA-IN: 01 - Digital Magnetic Tape

DINDB CODE 09

EXCHANGE (FORMAT): E060 - Drifting Buoys, Surface (F156)

PROCESSING (FORMAT): F156 - Drifting Buoys, Surface

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

INSTITUTE (COUNTRY AND INSTITUTE CODES): 311A

PLATFORM (COUNTRY AND PLATFORM CODES): 32DB

PLATFORM TYPE: 3 - Buoy

DINDB CODE 03

ORIGINATORS FILE ID:

ORIGINATORS CRUISE ID: 2174

CRUISE START DATE: 06/21/81

CRUISE END DATE: 12/26/82

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:

1

NUMBER OF RECORDS:

4,426

If STA/REC counts are not appropriate then enter -

NUMBER:

UNITS:

AVERAGE REC SIZE:

80

MBYTES:

0.354080

## 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 found

Record 17834 on screen  
165547

DATA ENTRY INFORMATION SYSTEM  
(DATASET INVENTORY)

SJH

DATE OF ENTRY: 05/27/87

REFERENCE NUMBER: TT9511      ACCESSION NUMBER: 8600398  
FORMER REFERENCE NUMBER:      FORMER ACCESSION NUMBER:      (RESUB ONLY)

INVENTORY

MEDIA-IN: 01 - Digital Magnetic Tape      DINDB CODE 09  
EXCHANGE (FORMAT): E060 - Drifting Buoys, Surface (F156)  
PROCESSING (FORMAT): F156 - Drifting Buoys, Surface

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

INSTITUTE (COUNTRY AND INSTITUTE CODES): 311A  
PLATFORM (COUNTRY AND PLATFORM CODES): 32DB  
PLATFORM TYPE: 3 - Buoy      DINDB CODE 03

ORIGINATORS FILE ID:      ORIGINATORS CRUISE ID: 2179  
CRUISE START DATE: 06/19/81      CRUISE END DATE: 11/25/82      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: 1      NUMBER OF RECORDS: 4,194

If STA/REC counts are not appropriate then enter -

NUMBER:      UNITS:  
AVERAGE REC SIZE: 80      MBYTES: 0.335520

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 found

Record 17835 on screen  
165548

DATA ENTRY INFORMATION SYSTEM  
(DATASET INVENTORY)

SJH

DATE OF ENTRY: 05/27/87

REFERENCE NUMBER: TT9512

ACCESSION NUMBER: 8600398

FORMER REFERENCE NUMBER:

FORMER ACCESSION NUMBER:

(RESUB ONLY)

-----  
INVENTORY

MEDIA-IN: 01 - Digital Magnetic Tape

DINDB CODE 09

EXCHANGE (FORMAT): E060 - Drifting Buoys, Surface (F156)

PROCESSING (FORMAT): F156 - Drifting Buoys, Surface

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

INSTITUTE (COUNTRY AND INSTITUTE CODES): 311A

PLATFORM (COUNTRY AND PLATFORM CODES): 32DB

PLATFORM TYPE: 3 - Buoy

DINDB CODE 03

ORIGINATORS FILE ID:

ORIGINATORS CRUISE ID: 2228

CRUISE START DATE: 08/03/80

CRUISE END DATE: 04/07/82

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:

1

NUMBER OF RECORDS:

4,898

If STA/REC counts are not appropriate then enter -

NUMBER:

UNITS:

AVERAGE REC SIZE:

80

MBYTES:

0.391840

-----  
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 17836 on screen  
165549

Record found

DATA ENTRY INFORMATION SYSTEM  
(DATASET INVENTORY)

SJH

OF ENTRY: 05/27/87

REFERENCE NUMBER: TT9513

ACCESSION NUMBER: 8600398

FORMER REFERENCE NUMBER:

FORMER ACCESSION NUMBER:

(RESUB ONLY)

## INVENTORY

MEDIA-IN: 01 - Digital Magnetic Tape

DINDB CODE 09

EXCHANGE (FORMAT): E060 - Drifting Buoys, Surface (F156)

PROCESSING (FORMAT): F156 - Drifting Buoys, Surface

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

INSTITUTE (COUNTRY AND INSTITUTE CODES): 311A

PLATFORM (COUNTRY AND PLATFORM CODES): 32DB

PLATFORM TYPE: 3 - Buoy

DINDB CODE 03

ORIGINATORS FILE ID:

ORIGINATORS CRUISE ID: 2230

CRUISE START DATE: 08/03/80

CRUISE END DATE: 04/07/82

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:

1

NUMBER OF RECORDS:

4,498

If STA/REC counts are not appropriate then enter -

NUMBER:

UNITS:

AVERAGE REC SIZE:

80

MBYTES:

0.359840

## 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 17837 on screen  
165550

Record found

DATA ENTRY INFORMATION SYSTEM  
(DATASET INVENTORY)

SJH

DATE OF ENTRY: 05/27/87

REFERENCE NUMBER: TT9514      ACCESSION NUMBER: 8600398  
FORMER REFERENCE NUMBER:      FORMER ACCESSION NUMBER:      (RESUB ONLY)

INVENTORY

MEDIA-IN: 01 - Digital Magnetic Tape      DINDB CODE 09  
EXCHANGE (FORMAT): E060 - Drifting Buoys, Surface (F156)  
PROCESSING (FORMAT): F156 - Drifting Buoys, Surface

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

INSTITUTE (COUNTRY AND INSTITUTE CODES): 311A  
PLATFORM (COUNTRY AND PLATFORM CODES): 32DB  
PLATFORM TYPE: 3 - Buoy      DINDB CODE 03

ORIGINATORS FILE ID:      ORIGINATORS CRUISE ID: 2234  
CRUISE START DATE: 08/05/80      CRUISE END DATE: 01/29/82      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: 1      NUMBER OF RECORDS: 4,282

If STA/REC counts are not appropriate then enter -

NUMBER:      UNITS:

AVERAGE REC SIZE: 80      MBYTES: 0.342560

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. 8600398 FILETYPE F156

TRACK NO.

PROJECT IDENTIFICATION EPDCS

TT9508-9514

| STEP               | DATE    | INIT.  | TAPE OR<br>DISK DSN | NO.<br>FILES | NO.<br>RECL | BLK<br>SIZE       | NO.<br>RECORDS |
|--------------------|---------|--------|---------------------|--------------|-------------|-------------------|----------------|
| ORIG. TAPE         | 5-27-87 | I.E.G. | A00376              | 1            | 80          | 80                | 28,814         |
| DUPLICATE TAPE     | ↓       | ↓      | W07979 *            | 1            | 80          | 80                | ↓              |
| REFORMATTED TAPE   | 4-6-89  | R.P.S. | W15789 **           | 1            | ↓           | 4000              | ↓              |
| REFORMATTED DISK   | 3/31/89 | F.J.M. | DNODC* TWO OUT.     | 1            | ↓           | <del>80</del> 224 | ↓              |
| FIRST MULCHEK      |         |        |                     |              |             |                   |                |
| FINAL MULCHEK      |         |        |                     |              |             |                   |                |
| MPD75 OR F022      |         |        |                     |              |             |                   |                |
| DATA SET FINALIZED |         |        |                     |              |             |                   |                |

ERRORS REPORTED TO PRINCIPAL INVESTIGATOR: \* = NO LABEL

\*\* LABEL = DNODC\* TT9508.

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

DISK IS EXACT COPY OF TAPE

COMMENTS (TRACKS DELETED, FIELDS DELETED, ETC.)

10 May 1988

MEMORANDUM FOR: Phil Hadsell

FROM: Steven Patterson

SUBJECT: Text Records in Accession # 8600398

Yesterday Mayra Pazos of ADML (FTS 350-1422) returned my call in which I inquired about the contents of the text records ("T" records) in Don Hansen's drifting buoy data (accession # 8600398). Don uses an optimal interpolation routine (called "Krig") to smooth the raw drifting buoy data and to interpolate values at a uniform 6 hour interval. This technique automatically provides an estimate of the error in the interpolated values. On the text record (e.g., "LAT KRIGGED ERR .0053 LON K ERR .0057 TP K ERR 0.1249"), the estimated error in latitude and longitude are provided in degrees to four decimal places, and the error in temperature in degrees Celsius to four decimal places.

## TRANSMITTAL AND RECEIPT RECORD

(Please sign and return carbon copy acknowledging receipt)

|  |                          |
|--|--------------------------|
| TO: Data Acq. & Mgmt. Branch<br>E/OC 13, Universal Bldg.<br>Wash. DC 20235 | REFER TO                 |
|  | ATTENTION<br>F. Mitchell |

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

☒ ORDINARY MAIL    ☐ REGISTERED MAIL    ☐ AIR MAIL    ☐ CERTIFIED MAIL    ☐ GOVERNMENT TRUCK    ☐ BY HAND    ☐ OTHER

EPOCS / FGGE Drifting buoy data; Feb. 1979 thru Oct. 1980.  
Tapes 1 & 2.

EPOCS Drifting Buoy data; Nov. 1981 thru Dec. 1983  
Tapes 1, 2, 3 & 4.

EPOCS Drifting buoy data; Aug. 1980 thru Apr. 1982.  
Tapes 1 & 2.

Data are in FT 156. Please consult the  
data processing information in the data  
reports (forwarded under separate cover).

Acc#s \_\_\_\_\_Ref. It's \_\_\_\_\_

|  |                   |                           |
|--|-------------------|---------------------------|
| FORWARDED BY (Signature)<br><i>John C. Hyatt</i> | TITLE<br>S.E.L.O. | DATE FORWARDED<br>12-8-86 |
| RECEIVED BY (Signature)                          | TITLE             | DATE RECEIVED             |

400376

Reference #

TT9508-9514

NUMBER

8600398

## DATA DOCUMENTATION FORM

F156

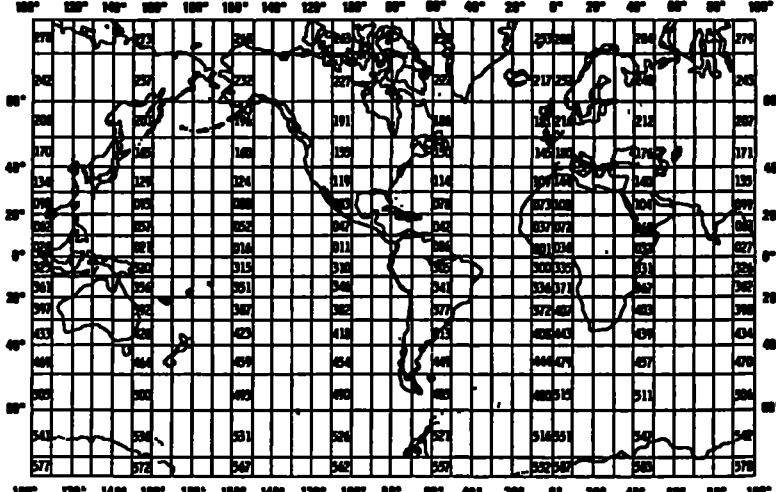
NOAA FORM 24-13  
(4-77)U.S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEANOGRAPHIC DATA CENTER  
RECORDS SECTION  
WASHINGTON, DC 20235FORM APPROVED  
O.M.B. No. 41-K2651  
EXPIRES 1-81

(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<br><i>U.S. DOC NOAA ERL AOML</i><br><i>MIAMI, FLOR. DA</i>   |  |  |   |
| 2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED<br><i>EPOCS</i>   |  | 3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT<br><i>N/A</i>                                   |   |
| 4. PLATFORM NAME(S)<br><i>N/A</i>   | 5. PLATFORM TYPE(S)<br>(E.G., SHIP, BUOY, ETC.)<br><i>BUOY</i> | 6. PLATFORM AND OPERATOR<br>NATIONALITY(IES)<br>PLATFORM OPERATOR<br><i>ARGOS USA</i>                                    | 7. DATES<br>FROM: MO, DAY, YR TO: MO, DAY, YR |
| 8. ARE DATA PROPRIETARY?<br><input checked="" type="checkbox"/> NO <input type="checkbox"/> YES<br>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.<br><br>GENERAL AREA |   |
| 9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)?<br>(I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?)<br><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)<br><br><i>DR. DONALD HANSEN</i>  |  |  |   |

### File structure -

Five 80-character records: (1) Header Record, (2) Launch Summary Record, (3) Data Record, (4) Subsurface Record, and (5) Text Record. Note: This file format supersedes File Format 056; investigators should report new data in this format.

### File format -

#### Lagrangian Current Measurements (F156)

| PARAMETER              | DESCRIPTION  | SC |
|------------------------|--|----|
| HEADER RECORD          | ALWAYS 'A'   | 10 |
| DROGUE NUMBER          | FIVE-CHARACTER FIELD ASSIGNED BY INVESTIGATOR - ANALOGOUS TO STATION NUMBER              | 11 |
| DROGUE TYPE            | FIVE CHARACTER FIELD FOR INDICATING TYPE OF DROGUE - DETERMINED BY INVESTIGATOR          | 16 |
| PRINCIPAL INVESTIGATOR | 15-CHARACTER FIELD FOR NAME OF PRINCIPAL INVESTIGATOR                                    | 21 |
| INSTITUTION OR AGENCY  | 15-CHARACTER FIELD FOR NAME OF INSTITUTION OR AGENCY                                     | 36 |
| PLATFORM NAME          | 12-CHARACTER FIELD FOR NAME OF PLATFORM ACQUIRING DATA OR DEPLOYING BUOY                 | 51 |
| BUOY NUMBER            | 4-CHARACTER FIELD FOR IDENTIFYING THE BUOY ASSOCIATED WITH DROGUE                        | 63 |
| BLANKS                 |  | 87 |
| LAUNCH SUMMARY RECORD  | ALWAYS 'B' - ONLY ONE OF THESE RECORDS SHOULD BE SUBMITTED WITH EACH DROGUE DEPLOYMENT   | 10 |
| DROGUE NUMBER          | SEE RECORD 'A'   | 11 |
| LAUNCH POSITION:       | POSITION AT DEPLOYMENT   |    |
| LATITUDE               | DDMMSS PLUS HEMISPHERE 'N' OR 'S'  | 16 |
| LONGITUDE              | DDMMSS PLUS HEMISPHERE 'E' OR 'W'  | 23 |
| END POSITION:          | POSITION AT PICKUP OR TERMINATION OF OBSERVATIONS  |    |
| LATITUDE               | DDMMSS PLUS HEMISPHERE 'N' OR 'S'  | 31 |
| LONGITUDE              | DDMMSS PLUS HEMISPHERE 'E' OR 'W'  | 38 |
| LAUNCH DATE (GMT)      | YYMMDD   | 45 |
| LAUNCH TIME (GMT)      | XXXX-HOURS AND MINUTES   | 52 |
| END DATE (GMT)         | YYMMDD   | 56 |
| END TIME (GMT)         | XXXX-HOURS AND MINUTES   | 62 |
| DROGUE DEPTH           | XXXX-DEPTH IN METERS   | 66 |
| OBSERVATION            | XXXX-HOURS AND MINUTES - USE WHEN BUOY POSITIONS ARE REPORTED AT SPECIFIC TIME INTERVALS | 70 |
| FREQUENCY              |  |    |
| BLANKS                 |  | 74 |



DATE  
March 1984

# NODC Users Guide

SECTION  
4.1.20

PAGE  
4

|                      |   |          |
|----------------------|---|----------|
| DATA RECORD          | ALWAYS 'C' - EACH RECORD CONTAINS INDIVIDUAL DROGUE POSITION AND ASSOCIATED SEA SURFACE CONDITIONS<br>SEE RECORD 'A'  | 10<br>11 |
| DROGUE NUMBER        | DDMMSS PLUS HEMISPHERE 'N' OR 'S'   | 16       |
| OBSERVED POSITION    | DDMMSS PLUS HEMISPHERE 'E' OR 'W'   | 23       |
| LATITUDE             | YYMMDD  | 31       |
| LONGITUDE            | XXXX-HOURS AND MINUTES  | 37       |
| OBSERVED DATE (GMT)  | XXX-DEG C (TO TENTHS)   | 41       |
| OBSERVED TIME (GMT)  | XXXX-PARTS PER THOUSAND (TO HUNDREDTHS)   | 44       |
| SURFACE TEMPERATURE  | XXXXXX-MILLIBARS (TO HUNDREDTHS)  | 48       |
| SURFACE SALINITY     | XX-METERS PER SECOND  | 54       |
| ATMOSPHERIC PRESSURE | XX-TENS OF DEGREES  | 56       |
| WIND SPEED           | ONE-CHARACTER CODE - USE CODE 0052  | 58       |
| WIND DIRECTION       | ONE-CHARACTER CODE - USE CODE 0104  | 59       |
| WIND FORCE           | ONE-CHARACTER CODE - USE CODE 0378  | 60       |
| WAVE HEIGHT          | ONE-CHARACTER CODE - USE CODE 0109  | 61       |
| WAVE PERIOD          | XXXX-BOTTOM DEPTH AT REPORTED BUOY POSITION (DEPTH IN METERS)   | 62       |
| SEA STATE            | XXXX - DEG C TO TENTHS. NEGATIVE VALUES PRECEDED BY MINUS SIGN  | 66       |
| BOTTOM DEPTH         | XXXX-USE TO SORT RECORDS FOR EACH DROGUE/BUOY - SEQUENCE NUMBERS SHOULD BE IN ASCENDING ORDER   | 70<br>77 |
| AIR TEMPERATURE      |   |          |
| BLANKS               |   |          |
| SEQUENCE NUMBER      |   |          |
| SUBSURFACE RECORD    | ALWAYS 'D' - EACH RECORD CONTAINS SUBSURFACE DATA ASSOCIATED WITH THE DROGUES.<br>SEE RECORD 'A'  | 10<br>11 |
| DROGUE NUMBER        | XXXXX - METERS TO HUNDREDTHS  | 13       |
| DEPTH                | XXXXX - DECIBARS TO HUNDREDTHS  | 21       |
| PRESSURE             | XXX - DEG C TO TENTHS. NEGATIVE VALUES PRECEDED BY MINUS SIGN   | 28       |
| TEMPERATURE          | XXXXX - METERS TO HUNDREDTHS  | 29       |
| DEPTH                | XXXXX - DECIBARS TO HUNDREDTHS  | 34       |
| PRESSURE             | XXX - DEG C TO TENTHS   | 39       |
| TEMPERATURE          | XXXXX - METERS TO HUNDREDTHS  | 42       |
| DEPTH                | XXXXX - DECIBARS TO HUNDREDTHS  | 47       |
| PRESSURE             | XXX - DEG C TO TENTHS   | 52       |
| TEMPERATURE          | XXXXX - METERS TO HUNDREDTHS  | 55       |
| DEPTH                | XXXXX - DECIBARS TO HUNDREDTHS  | 50       |
| PRESSURE             | XXX - DEG C TO TENTHS   | 55       |
| TEMPERATURE          |   | 68       |
| BLANKS               |   | 77       |
| SEQUENCE NUMBER      | XXXX - SEE ABOVE  |          |
| TEXT RECORD          | ALWAYS 'T' - USE FOR COMMENTS AND OTHER INFORMATION<br>SEE RECORD 'A'   | 10<br>11 |
| DROGUE NUMBER        | 61-CHARACTER FIELD FOR COMMENTS- MULTIPLE TEXT RECORDS MAY BE USED TO DESCRIBE INDIVIDUAL DROGUE OBSERVATIONS OR FOR GENERAL COMMENTS   | 16       |
| TEXT                 | TEXT RECORDS MAY BE INSERTED BETWEEN OR FOLLOW DATA RECORDS DEPENDING ON THE NATURE OF THE COMMENTS. THE ORDER OF SEQUENCE NUMBERS SHOULD REFLECT THE PROPER SORTING OF COMBINED DATA AND TRACK RECORDS FOR EACH DROGUE/BUOY. | 17       |
| SEQUENCE NUMBER      |   |          |

EXTRANEIOUS RECORD --

8600398

DONE, 7 RECORDS WRITTEN. UNIQUE'S 167184 THRU 167190 .

```
=====
ACCESS  REF    FILE PROJ INST PLAT    CRUISE   CRUISE   CRUISE      NUM    NUM
NUMBER  NUMBER TYPE CODE              NO      START    END        STA    REC
-----
8600398 TT9807 F156 0106 311A 32DB 2161          09/09/80 11/29/80      1      650
8600398 TT9808 F156 0106 311A 32DB 2165          08/19/80 09/20/81      1    3,170
8600398 TT9809 F156 0106 311A 32DB 2166          06/17/81 12/21/82      1    4,418
8600398 TT9810 F156 0106 311A 32DB 2167          08/13/80 03/23/82      1    4,698
8600398 TT9811 F156 0106 311A 32DB 2168          08/14/80 10/02/81      1    3,314
8600398 TT9812 F156 0106 311A 32DB 2169          08/15/80 03/22/81      1    1,754
8600398 TT9813 F156 0106 311A 32DB 2170          08/30/80 01/20/81      1    1,146
=====
```

ACCESSION NO: 8600398FILETYPE F156

TT9807-9813

TRACK NO. \_\_\_\_\_

PROJECT  
IDENTIFICATION EP0CS

| STEP               | DATE    | INIT.  | TAPE OR<br>DISK DSN         | NO.<br>FILES | NO. RECL | BLK SIZE | NO.<br>RECORDS |
|--------------------|---------|--------|-----------------------------|--------------|----------|----------|----------------|
| ORIG. TAPE         | 7/6/87  | FJM    | A00375                      | 1            | 80       | 80       | 19150          |
| DUPLICATE TAPE     | 7/6/87  | IEG    | W09743 *                    | 1            | 80       | 80       | 1              |
| REFORMATTED TAPE   | 4/6/89  | R.P.S. | <del>W09743</del> W15812 ** | 1            | ↓        | 4000     | ↓              |
| REFORMATTED DISK   | 3/29/89 | FJM    | DNODC * ONE OUT.            | 1            | ↓        | 80       | ↓              |
| FIRST MULCHEK      |         |        |                             |              |          |          |                |
| FINAL MULCHEK      |         |        |                             |              |          |          |                |
| MPD75 OR F022      |         |        |                             |              |          |          |                |
| DATA SET FINALIZED |         |        |                             |              |          |          |                |

ERRORS REPORTED TO PRINCIPAL INVESTIGATOR:

\* = NO LABEL

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

\*\* = W15812 = LABEL =  
DNODC \* TT9807.

EXACT COPY OF DISK.

COMMENTS (TRACKS DELETED, FIELDS DELETED, ETC.)

10 May 1988

MEMORANDUM FOR: Phil Hadsell

FROM: Steven Patterson

SUBJECT: Text Records in Accession # B600398

Yesterday Mayra Pazos of ADML (FTS 350-1422) returned my call in which I inquired about the contents of the text records ("T" records) in Don Hansen's drifting buoy data (accession # B600398). Don uses an optimal interpolation routine (called "Krig") to smooth the raw drifting buoy data and to interpolate values at a uniform 6 hour interval. This technique automatically provides an estimate of the error in the interpolated values. On the text record (e.g., "LAT KRIGGED ERR .0053 LON K ERR .0057 TP K ERR 0.1249"), the estimated error in latitude and longitude are provided in degrees to four decimal places, and the error in temperature in degrees Celsius to four decimal places.

|                    |                  |                   |           |
|--------------------|------------------|-------------------|-----------|
| DATE<br>March 1984 | NODC Users Guide | SECTION<br>4.1.20 | PAGE<br>3 |
|--------------------|------------------|-------------------|-----------|

### File structure -

Five 80-character records: (1) Header Record, (2) Launch Summary Record, (3) Data Record, (4) Subsurface Record, and (5) Text Record. Note: This file format supersedes File Format 056; investigators should report new data in this format.

### File format -

#### Lagrangian Current Measurements (F156)

| PARAMETER              | DESCRIPTION  | SC |
|------------------------|--|----|
| HEADER RECORD          | ALWAYS 'A'   | 10 |
| DROGUE NUMBER          | FIVE-CHARACTER FIELD ASSIGNED BY INVESTIGATOR - ANALOGOUS TO STATION NUMBER              | 11 |
| DROGUE TYPE            | FIVE CHARACTER FIELD FOR INDICATING TYPE OF DROGUE - DETERMINED BY INVESTIGATOR          | 16 |
| PRINCIPAL INVESTIGATOR | 15-CHARACTER FIELD FOR NAME OF PRINCIPAL INVESTIGATOR                                    | 21 |
| INSTITUTION OR AGENCY  | 15-CHARACTER FIELD FOR NAME OF INSTITUTION OR AGENCY                                     | 36 |
| PLATFORM NAME          | 12-CHARACTER FIELD FOR NAME OF PLATFORM ACQUIRING DATA OR DEPLOYING BUOY                 | 51 |
| BUOY NUMBER            | 4-CHARACTER FIELD FOR IDENTIFYING THE BUOY ASSOCIATED WITH DROGUE                        | 63 |
| BLANKS                 |  | 67 |
| LAUNCH SUMMARY RECORD  | ALWAYS 'B' - ONLY ONE OF THESE RECORDS SHOULD BE SUBMITTED WITH EACH DROGUE DEPLOYMENT   | 10 |
| DROGUE NUMBER          | SEE RECORD 'A'   | 11 |
| LAUNCH POSITION:       | POSITION AT DEPLOYMENT   |    |
| LATITUDE               | DDMMSS PLUS HEMISPHERE 'N' OR 'S'  | 16 |
| LONGITUDE              | DDMMSS PLUS HEMISPHERE 'E' OR 'W'  | 23 |
| END POSITION:          | POSITION AT PICKUP OR TERMINATION OF OBSERVATIONS  |    |
| LATITUDE               | DDMMSS PLUS HEMISPHERE 'N' OR 'S'  | 31 |
| LONGITUDE              | DDMMSS PLUS HEMISPHERE 'E' OR 'W'  | 38 |
| LAUNCH DATE(GMT)       | YYMMDD   | 45 |
| LAUNCH TIME(GMT)       | XXXX-HOURS AND MINUTES   | 52 |
| END DATE (GMT)         | YYMMDD   | 56 |
| END TIME (GMT)         | XXXX-HOURS AND MINUTES   | 62 |
| DROGUE DEPTH           | XXXX-DEPTH IN METERS   | 66 |
| OBSERVATION FREQUENCY  | XXXX-HOURS AND MINUTES - USE WHEN BUOY POSITIONS ARE REPORTED AT SPECIFIC TIME INTERVALS | 70 |
| BLANKS                 |  | 74 |

| DATE       | NODC Users Guide | SECTION | PAGE |
|------------|------------------|---------|------|
| March 1984 |                  | 4.1.20  | 4    |

|                       |   |          |
|-----------------------|---|----------|
| DATA RECORD           | ALWAYS 'C' - EACH RECORD CONTAINS INDIVIDUAL DROGUE POSITION AND ASSOCIATED SEA SURFACE CONDITIONS<br>SEE RECORD 'A'  | 10<br>11 |
| DROGUE NUMBER         |   |          |
| OBSERVED POSITION     |   |          |
| LATITUDE              | DDMMSS PLUS HEMISPHERE 'N' OR 'S'   | 16       |
| LONGITUDE             | DDMMSS PLUS HEMISPHERE 'E' OR 'W'   | 23       |
| OBSERVED DATE (GMT)   | YYMMDD  | 31       |
| OBSERVED TIME (GMT)   | XXXX-HOURS AND MINUTES  | 37       |
| SURFACE TEMPERATURE   | XXX-DEG C (TO TENTHS)   | 41       |
| SURFACE SALINITY      | XXXX-PARTS PER THOUSAND (TO HUNDREDTHS)   | 44       |
| ATMOSPHERIC PRESSURE  | XXXXXX-MILLIBARS (TO HUNDREDTHS)  | 48       |
| WIND SPEED            | XX-METERS PER SECOND  | 54       |
| WIND DIRECTION        | XX-TENS OF DEGREES  | 56       |
| WIND FORCE            | ONE-CHARACTER CODE- USE CODE 0052   | 58       |
| WAVE HEIGHT           | ONE-CHARACTER CODE - USE CODE 0104  | 59       |
| WAVE PERIOD           | ONE-CHARACTER CODE - USE CODE 0378  | 60       |
| SEA STATE             | ONE-CHARACTER CODE - USE CODE 0109  | 61       |
| BOTTOM DEPTH          | XXXX-BOTTOM DEPTH AT REPORTED BUOY POSITION (DEPTH IN METERS)   | 62       |
| AIR TEMPERATURE       | XXX - DEG C TO TENTHS. NEGATIVE VALUES PRECEDED BY MINUS SIGN   | 66       |
| BLANKS                |   | 70       |
| SEQUENCE NUMBER       | XXXX-USE TO SORT RECORDS FOR EACH DROGUE/BUOY - SEQUENCE NUMBERS SHOULD BE IN ASCENDING ORDER   | 77       |
| <br>SUBSURFACE RECORD | <br>ALWAYS 'D' - EACH RECORD CONTAINS SUBSURFACE DATA ASSOCIATED WITH THE DROGUES.  | <br>10   |
| DROGUE NUMBER         | SEE RECORD 'A'  | 11       |
| DEPTH                 | XXXX - METERS TO HUNDREDTHS   | 13       |
| PRESSURE              | XXXXX - DECIBARS TO HUNDREDTHS  | 21       |
| TEMPERATURE           | XXX - DEG C TO TENTHS. NEGATIVE VALUES PRECEDED BY MINUS SIGN   | 26       |
| DEPTH                 | XXXXX - METERS TO HUNDREDTHS  | 29       |
| PRESSURE              | XXXXX - DECIBARS TO HUNDREDTHS  | 34       |
| TEMPERATURE           | XXX - DEG C TO TENTHS   | 39       |
| DEPTH                 | XXXXX - METERS TO HUNDREDTHS  | 42       |
| PRESSURE              | XXXXX - DECIBARS TO HUNDREDTHS  | 47       |
| TEMPERATURE           | XXX - DEG C TO TENTHS   | 52       |
| DEPTH                 | XXXXX - METERS TO HUNDREDTHS  | 55       |
| PRESSURE              | XXXXX - DECIBARS TO HUNDREDTHS  | 60       |
| TEMPERATURE           | XXX - DEG C TO TENTHS   | 65       |
| BLANKS                |   | 68       |
| SEQUENCE NUMBER       | XXXX - SEE ABOVE  | 77       |
| <br>TEXT RECORD       | <br>ALWAYS 'T' - USE FOR COMMENTS AND OTHER INFORMATION   | <br>10   |
| DROGUE NUMBER         | SEE RECORD 'A'  | 11       |
| TEXT                  | 61-CHARACTER FIELD FOR COMMENTS- MULTIPLE TEXT RECORDS MAY BE USED TO DESCRIBE INDIVIDUAL DROGUE OBSERVATIONS OR FOR GENERAL COMMENTS   | 16       |
| SEQUENCE NUMBER       | TEXT RECORDS MAY BE INSERTED BETWEEN OR FOLLOW DATA RECORDS DEPENDING ON THE NATURE OF THE COMMENTS. THE ORDER OF SEQUENCE NUMBERS SHOULD REFLECT THE PROPER SORTING OF COMBINED DATA AND TRACK RECORDS FOR EACH DROGUE/BUOY. | 77       |

F156

TT9807-9813

ACCESSION  
NUMBER

8600398

## DATA DOCUMENTATION FORM

AOML

NOAA FORM 24-13  
(4-77)U.S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEANOGRAPHIC DATA CENTER  
RECORDS SECTION  
WASHINGTON, DC 20235FORM 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  |   |  |                               |
| Donald Hanse<br>U.S. DOC NOAA ERL AOML<br>Miami, Florida  |   |  |                               |
| 2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED   |   | 3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT                             |                               |
| EPOCS   |   | N/A  |                               |
| 4. PLATFORM NAME(S)   | 5. PLATFORM TYPE(S)<br>(E.G., SHIP, BUOY, ETC.) | 6. PLATFORM AND OPERATOR<br>NATIONALITY(IES)   | 7. DATES                      |
| N/A   | BUOY  | PLATFORM OPERATOR  | FROM: MO/DAY/YR TO: MO/DAY/YR |
|   |   | ARGOS USA  | 08/13/80 12/21/82             |
| 8. ARE DATA PROPRIETARY?<br><input checked="" type="checkbox"/> NO <input type="checkbox"/> YES<br>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. |                               |
| 9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)?<br>(I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?)<br><input checked="" type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> PART (SPECIFY BELOW) |   | GENERAL AREA   |                               |
| PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1)<br>Dr. Donald Hanse  |   |  |                               |

ITEM TO BE USED AND FUNCTION TO BE PERFORMED

INPUT MEDIUM

APER CARD DISK TAPE  
SKETTE OTHER(SPECIFY)

OUTPUT MEDIUM

CARD DISK PRINT TAPE PLOT  
DISKETTE OTHER(SPECIFY)

DISKETTE INFORMATION

| TAPE #/<br>DISKETTE | SLOT #           | TRK  | DENSITY | PARITY | LABEL<br>TYPE | RECORD<br>TYPE | RECORD<br>LENGTH | MAX. BLOCK<br>SIZE | #  |
|---------------------|------------------|--|---------|--------|---------------|----------------|------------------|--------------------|----|
|                     |                  |  |         |        |               |                |                  |                    |    |
| SECTOR<br>SIZE      | EXCHANGE<br>TYPE | CODE:<br>ASCII EBCDIC BCD SDF<br>OTHER(SPECIFY)        |         |        |               | DATA SET NAME  |                  |                    |    |
| TAPE #/<br>DISKETTE | SLOT #           | TRK  | DENSITY | PARITY | LABEL<br>TYPE | RECORD<br>TYPE | RECORD<br>LENGTH | MAX. BLOCK<br>SIZE | #  |
| 10575               |                  | 9  | 1600    | odd    | 12L           | FB             | 80               | 8000               | 11 |
| SECTOR<br>SIZE      | EXCHANGE<br>TYPE | CODE:<br><u>ASCII</u> EBCDIC BCD SDF<br>OTHER(SPECIFY) |         |        |               | DATA SET NAME  |                  |                    |    |
| TAPE #/<br>DISKETTE | SLOT #           | TRK  | DENSITY | PARITY | LABEL<br>TYPE | RECORD<br>TYPE | RECORD<br>LENGTH | MAX. BLOCK<br>SIZE | #  |
|                     |                  |  |         |        |               |                |                  |                    |    |
| SECTOR<br>SIZE      | EXCHANGE<br>TYPE | CODE:<br>ASCII EBCDIC BCD SDF<br>OTHER(SPECIFY)        |         |        |               | DATA SET NAME  |                  |                    |    |

ADDITIONAL INSTRUCTIONS

ESTIMATED  
EXECUTION  
TIME

USE ONLY

| DATE JOB<br>COMPLETED | START<br>TIME | END<br>TIME | PRIORITY | DEVICES USED, NUMBER OF TAPE MOUNTS, LINES PRI<br>DISKETTES-USED, CARDS PUNCHED, CARDS KEYVERIF |
|-----------------------|---------------|-------------|----------|---|
| 6/5/87                | 15:37         | 18:50       | C        | COMPLETED BY ANDY   |



SUBMITTED

19/57

27

EQUIPMENT TO BE USED AND FUNCTION TO BE PERFORMED

Copy to W. tape and Scan output

## INPUT MEDIUM

PAPER CARD DISK TAPE  
DISKETTE OTHER(SPECIFY)

## OUTPUT MEDIUM

CARD DISK PRINT TAPE PLOT  
DISKETTE OTHER(SPECIFY)

## TAPE/DISKETTE INFORMATION

|       | TAPE #/<br>DISKETTE | SLOT #           | TRK   | DENSITY | PARITY | LABEL<br>TYPE | RECORD<br>TYPE | RECORD<br>LENGTH | MAX. BLOCK<br>SIZE | #<br>FI  |
|-------|---------------------|------------------|---|---------|--------|---------------|----------------|------------------|--------------------|----------|
|       | SECTOR<br>SIZE      | EXCHANGE<br>TYPE | CODE:<br>ASCII EBCDIC BCD SDF<br>OTHER(SPECIFY) |         |        |               | DATA SET NAME  |                  |                    | PL<br>DA |
| PUT   | TAPE #/<br>DISKETTE | SLOT #           | TRK   | DENSITY | PARITY | LABEL<br>TYPE | RECORD<br>TYPE | RECORD<br>LENGTH | MAX. BLOCK<br>SIZE | #<br>FI  |
|       | 466375              |                  | 9   | 1600    | odd    | NL            | FR             | 80               | 80                 | 1        |
|       | SECTOR<br>SIZE      | EXCHANGE<br>TYPE | CODE:<br>ASCII EBCDIC BCD SDF<br>OTHER(SPECIFY) |         |        |               | DATA SET NAME  |                  |                    | PU<br>DA |
|       | TAPE #/<br>DISKETTE | SLOT #           | TRK   | DENSITY | PARITY | LABEL<br>TYPE | RECORD<br>TYPE | RECORD<br>LENGTH | MAX. BLOCK<br>SIZE | #<br>FI  |
|       | W49743              |                  | 9   | 1600    | odd    | NL            | FR             | 80               | 80                 | 1        |
| INPUT | SECTOR<br>SIZE      | EXCHANGE<br>TYPE | CODE:<br>ASCII EBCDIC BCD SDF<br>OTHER(SPECIFY) |         |        |               | DATA SET NAME  |                  |                    | PU<br>DA |

## SPECIAL INSTRUCTIONS

Send to Asheville

ESTIMATED  
EXECUTION  
TIME

## 1. USE ONLY

| #        | DATE JOB<br>COMPLETED | START<br>TIME | END<br>TIME | PRIORITY | DEVICES USED, NUMBER OF TAPE MOUNTS, LINES PRINTED,<br>DISKETTES USED, CARDS PUNCHED, CARDS KEYVERIFIED |
|----------|-----------------------|---------------|-------------|----------|---|
| 474-2000 | 6/19/87               | 14:35         | 15:06       | C        | Completed by Andy   |

Password:

| accNo   | fleA | refNo  | proj | inst | ship | startDate  | cruise | catId  |
|---------|------|--------|------|------|------|------------|--------|--------|
| 8600398 | F156 | TT8732 | 0106 | 311A | 32DB | 1979/02/14 | ARGOS  | 166633 |
| 8600398 | F156 | TT8733 | 0106 | 311A | 32DB | 1979/06/08 | ARGOS  | 166634 |
| 8600398 | F156 | TT8734 | 0106 | 311A | 32DB | 1981/11/25 | ARGOS  | 166635 |
| 8600398 | F156 | TT8735 | 0106 | 311A | 32DB | 1983/07/21 | ARGOS  | 166636 |
| 8600398 | F156 | TT8736 | 0106 | 311A | 32DB | 1983/11/03 | ARGOS  | 166637 |
| 8600398 | F156 | TT8737 | 0106 | 311A | 32DB | 1982/11/14 | ARGOS  | 166638 |
| 8600398 | F156 | TT8788 | 0106 | 311A | 32DB | 1979/02/14 | 2201   | 166639 |
| 8600398 | F156 | TT8789 | 0106 | 311A | 32DB | 1979/03/01 | 2202   | 166640 |
| 8600398 | F156 | TT8790 | 0106 | 311A | 32DB | 1979/02/14 | 2204   | 166641 |
| 8600398 | F156 | TT8791 | 0106 | 311A | 32DB | 1979/06/01 | 2205   | 166642 |
| 8600398 | F156 | TT8792 | 0106 | 311A | 32DB | 1979/02/15 | 2207   | 166643 |
| 8600398 | F156 | TT8793 | 0106 | 311A | 32DB | 1979/06/07 | 2208   | 166644 |
| 8600398 | F156 | TT8794 | 0106 | 311A | 32DB | 1979/06/07 | 2209   | 166645 |
| 8600398 | F156 | TT8795 | 0106 | 311A | 32DB | 1979/06/07 | 2211   | 166646 |
| 8600398 | F156 | TT8796 | 0106 | 311A | 32DB | 1979/06/08 | 2212   | 166647 |
| 8600398 | F156 | TT8797 | 0106 | 311A | 32DB | 1979/06/07 | 2213   | 166648 |
| 8600398 | F156 | TT8798 | 0106 | 311A | 32DB | 1979/06/09 | 2214   | 166649 |
| 8600398 | F156 | TT8799 | 0106 | 311A | 32DB | 1979/06/07 | 2215   | 166650 |
| 8600398 | F156 | TT8800 | 0106 | 311A | 32DB | 1979/06/06 | 2217   | 166651 |
| 8600398 | F156 | TT8801 | 0106 | 311A | 32DB | 1979/06/07 | 2218   | 166652 |
| 8600398 | F156 | TT9253 | 9999 | 311A | 32DB | 1982/11/14 | 4400   | 166653 |
| 8600398 | F156 | TT9254 | 9999 | 311A | 32DB | 1982/11/25 | 4401   | 166654 |
| 8600398 | F156 | TT9255 | 9999 | 311A | 32DB | 1982/12/03 | 4402   | 166655 |
| 8600398 | F156 | TT9332 | 0106 | 311A | 32DB | 1981/11/25 | 2162   | 166656 |
| 8600398 | F156 | TT9333 | 0106 | 311A | 32DB | 1982/11/25 | 2163   | 166657 |
| 8600398 | F156 | TT9334 | 0106 | 311A | 32DB | 1982/03/27 | 2172   | 166658 |
| 8600398 | F156 | TT9335 | 0106 | 311A | 32DB | 1983/07/23 | 2175   | 166659 |
| 8600398 | F156 | TT9336 | 0106 | 311A | 32DB | 1982/03/08 | 2176   | 166660 |
| 8600398 | F156 | TT9337 | 0106 | 311A | 32DB | 1982/09/13 | 2177   | 166661 |
| 8600398 | F156 | TT9338 | 0106 | 311A | 32DB | 1982/03/26 | 2178   | 166662 |
| 8600398 | F156 | TT9339 | 0106 | 311A | 32DB | 1982/10/15 | 2180   | 166663 |
| 8600398 | F156 | TT9340 | 0106 | 311A | 32DB | 1981/11/27 | 2181   | 166664 |
| 8600398 | F156 | TT9341 | 0106 | 311A | 32DB | 1982/11/28 | 2182   | 166665 |
| 8600398 | F156 | TT9342 | 0106 | 311A | 32DB | 1981/11/26 | 2183   | 166666 |
| 8600398 | F156 | TT9343 | 0106 | 311A | 32DB | 1983/11/15 | 2184   | 166667 |
| 8600398 | F156 | TT9344 | 0106 | 311A | 32DB | 1983/07/18 | 2185   | 166668 |
| 8600398 | F156 | TT9345 | 0106 | 311A | 32DB | 1983/07/21 | 2186   | 166669 |
| 8600398 | F156 | TT9346 | 0106 | 311A | 32DB | 1981/12/04 | 2187   | 166670 |
| 8600398 | F156 | TT9347 | 0106 | 311A | 32DB | 1981/11/22 | 2188   | 166671 |
| 8600398 | F156 | TT9348 | 0106 | 311A | 32DB | 1982/03/27 | 2190   | 166672 |
| 8600398 | F156 | TT9349 | 0106 | 311A | 32DB | 1981/12/04 | 2191   | 166673 |
| 8600398 | F156 | TT9350 | 0106 | 311A | 32DB | 1982/11/23 | 2192   | 166674 |
| 8600398 | F156 | TT9351 | 0106 | 311A | 32DB | 1982/03/16 | 2197   | 166675 |
| 8600398 | F156 | TT9352 | 0106 | 311A | 32DB | 1982/03/09 | 2198   | 166676 |
| 8600398 | F156 | TT9353 | 0106 | 311A | 32DB | 1981/11/24 | 2199   | 166677 |
| 8600398 | F156 | TT9354 | 0106 | 311A | 32DB | 1982/03/17 | 2200   | 166678 |
| 8600398 | F156 | TT9355 | 0106 | 311A | 32DB | 1983/11/03 | 4403   | 166679 |
| 8600398 | F156 | TT9356 | 0106 | 311A | 32DB | 1982/11/08 | 4404   | 166680 |
| 8600398 | F156 | TT9357 | 0106 | 311A | 32DB | 1982/11/13 | 4405   | 166681 |
| 8600398 | F156 | TT9358 | 0106 | 311A | 32DB | 1983/06/24 | 4406   | 166682 |
| 8600398 | F156 | TT9359 | 0106 | 311A | 32DB | 1983/04/21 | 4407   | 166683 |
| 8600398 | F156 | TT9360 | 0106 | 311A | 32DB | 1983/04/05 | 4408   | 166684 |
| 8600398 | F156 | TT9361 | 0106 | 311A | 32DB | 1983/05/22 | 4409   | 166685 |
| 8600398 | F156 | TT9362 | 0106 | 311A | 32DB | 1983/03/23 | 4411   | 166686 |
| 8600398 | F156 | TT9363 | 0106 | 311A | 32DB | 1983/03/27 | 4413   | 166687 |
| 8600398 | F156 | TT9364 | 0106 | 311A | 32DB | 1983/04/01 | 4414   | 166688 |

|         |      |        |      |      |      |            |      |        |
|---------|------|--------|------|------|------|------------|------|--------|
| 8600398 | F156 | TT9365 | 0106 | 311A | 32DB | 1983/05/19 | 4415 | 166689 |
| 8600398 | F156 | TT9366 | 0106 | 311A | 32DB | 1983/03/24 | 4416 | 166690 |
| 8600398 | F156 | TT9367 | 0106 | 311A | 32DB | 1983/03/28 | 4417 | 166691 |
| 8600398 | F156 | TT9492 | 0106 | 311A | 32DB | 1979/06/08 | 2220 | 166692 |
| 8600398 | F156 | TT9493 | 0106 | 311A | 32DB | 1979/06/07 | 2222 | 166693 |
| 8600398 | F156 | TT9494 | 0106 | 311A | 32DB | 1979/06/07 | 2223 | 166694 |
| 8600398 | F156 | TT9495 | 0106 | 311A | 32DB | 1979/06/08 | 2225 | 166695 |
| 8600398 | F156 | TT9496 | 0106 | 311A | 32DB | 1979/12/17 | 2226 | 166696 |
| 8600398 | F156 | TT9497 | 0106 | 311A | 32DB | 1979/12/11 | 2229 | 166697 |
| 8600398 | F156 | TT9498 | 0106 | 311A | 32DB | 1980/01/24 | 2231 | 166698 |
| 8600398 | F156 | TT9499 | 0106 | 311A | 32DB | 1980/01/25 | 2232 | 166699 |
| 8600398 | F156 | TT9500 | 0106 | 311A | 32DB | 1979/12/17 | 2233 | 166700 |
| 8600398 | F156 | TT9501 | 0106 | 311A | 32DB | 1979/12/11 | 2235 | 166701 |
| 8600398 | F156 | TT9502 | 0106 | 311A | 32DB | 1979/12/17 | 2236 | 166702 |
| 8600398 | F156 | TT9503 | 0106 | 311A | 32DB | 1979/06/12 | 2251 | 166703 |
| 8600398 | F156 | TT9504 | 0106 | 311A | 32DB | 1979/06/13 | 2252 | 166704 |
| 8600398 | F156 | TT9505 | 0106 | 311A | 32DB | 1979/06/10 | 2254 | 166705 |
| 8600398 | F156 | TT9506 | 0106 | 311A | 32DB | 1979/06/14 | 2255 | 166706 |
| 8600398 | F156 | TT9507 | 0106 | 311A | 32DB | 1979/06/07 | 2257 | 166707 |
| 8600398 | F156 | TT9508 | 0106 | 311A | 32DB | 1981/06/18 | 2171 | 166708 |
| 8600398 | F156 | TT9509 | 0106 | 311A | 32DB | 1980/09/10 | 2173 | 166709 |
| 8600398 | F156 | TT9510 | 0106 | 311A | 32DB | 1981/06/21 | 2174 | 166710 |
| 8600398 | F156 | TT9511 | 0106 | 311A | 32DB | 1981/06/19 | 2179 | 166711 |
| 8600398 | F156 | TT9512 | 0106 | 311A | 32DB | 1980/08/03 | 2228 | 166712 |
| 8600398 | F156 | TT9513 | 0106 | 311A | 32DB | 1980/08/03 | 2230 | 166713 |
| 8600398 | F156 | TT9514 | 0106 | 311A | 32DB | 1980/08/05 | 2234 | 166714 |
| 8600398 | F156 | TT9807 | 0106 | 311A | 32DB | 1980/09/09 | 2161 | 166715 |
| 8600398 | F156 | TT9808 | 0106 | 311A | 32DB | 1980/08/19 | 2165 | 166716 |
| 8600398 | F156 | TT9809 | 0106 | 311A | 32DB | 1981/06/17 | 2166 | 166717 |
| 8600398 | F156 | TT9810 | 0106 | 311A | 32DB | 1980/08/13 | 2167 | 166718 |
| 8600398 | F156 | TT9811 | 0106 | 311A | 32DB | 1980/08/14 | 2168 | 166719 |
| 8600398 | F156 | TT9812 | 0106 | 311A | 32DB | 1980/08/15 | 2169 | 166720 |
| 8600398 | F156 | TT9813 | 0106 | 311A | 32DB | 1980/08/30 | 2170 | 166721 |

(89 rows affected)

Password:

| accNo   | fleA | refNo  | ship | staCnt | recCnt | startDate | endDate  |
|---------|------|--------|------|--------|--------|-----------|----------|
| 8600398 | F156 | TT8732 | 32DB | 1      | 39780  | 79/02/14  | 80/04/27 |
| 8600398 | F156 | TT8733 | 32DB | 1      | 39128  | 79/06/08  | 79/09/05 |
| 8600398 | F156 | TT8734 | 32DB | 1      | 39074  | 81/11/25  | 83/07/23 |
| 8600398 | F156 | TT8735 | 32DB | 1      | 37396  | 83/07/21  | 84/04/28 |
| 8600398 | F156 | TT8736 | 32DB | 1      | 31090  | 83/11/03  | 84/09/26 |
| 8600398 | F156 | TT8737 | 32DB | 1      | 8510   | 82/11/14  | 84/10/16 |
| 8600398 | F156 | TT8788 | 32DB | 15     | 3506   | 79/02/14  | 80/04/27 |
| 8600398 | F156 | TT8789 | 32DB | 12     | 2778   | 79/03/01  | 80/02/11 |
| 8600398 | F156 | TT8790 | 32DB | 2      | 194    | 79/02/14  | 79/03/10 |
| 8600398 | F156 | TT8791 | 32DB | 15     | 3642   | 79/06/01  | 80/08/29 |
| 8600398 | F156 | TT8792 | 32DB | 17     | 3906   | 79/02/15  | 80/06/17 |
| 8600398 | F156 | TT8793 | 32DB | 8      | 1842   | 79/06/07  | 80/01/23 |
| 8600398 | F156 | TT8794 | 32DB | 15     | 3586   | 79/06/07  | 80/08/28 |
| 8600398 | F156 | TT8795 | 32DB | 14     | 3282   | 79/06/07  | 80/07/21 |
| 8600398 | F156 | TT8796 | 32DB | 15     | 3370   | 79/06/08  | 80/08/02 |
| 8600398 | F156 | TT8797 | 32DB | 14     | 3274   | 79/06/07  | 80/07/20 |
| 8600398 | F156 | TT8798 | 32DB | 9      | 1962   | 79/06/09  | 80/02/09 |
| 8600398 | F156 | TT8799 | 32DB | 13     | 3002   | 79/06/07  | 80/06/16 |
| 8600398 | F156 | TT8800 | 32DB | 15     | 3314   | 79/06/06  | 80/08/08 |
| 8600398 | F156 | TT8801 | 32DB | 9      | 2122   | 79/06/07  | 80/02/27 |
| 8600398 | F156 | TT9253 | 32DB | 24     | 5618   | 82/11/14  | 84/10/16 |
| 8600398 | F156 | TT9254 | 32DB | 12     | 2698   | 82/11/25  | 83/10/28 |
| 8600398 | F156 | TT9255 | 32DB | 1      | 194    | 82/12/03  | 82/12/27 |
| 8600398 | F156 | TT9332 | 32DB | 21     | 4842   | 81/11/25  | 83/07/23 |
| 8600398 | F156 | TT9333 | 32DB | 4      | 674    | 82/11/25  | 83/02/17 |
| 8600398 | F156 | TT9334 | 32DB | 14     | 3106   | 82/03/27  | 83/04/19 |
| 8600398 | F156 | TT9335 | 32DB | 4      | 658    | 83/07/23  | 83/10/13 |
| 8600398 | F156 | TT9336 | 32DB | 4      | 738    | 82/03/08  | 82/06/08 |
| 8600398 | F156 | TT9337 | 32DB | 20     | 4738   | 82/09/13  | 84/04/27 |
| 8600398 | F156 | TT9338 | 32DB | 16     | 3642   | 82/03/26  | 83/06/24 |
| 8600398 | F156 | TT9339 | 32DB | 20     | 4626   | 82/10/15  | 84/05/15 |
| 8600398 | F156 | TT9340 | 32DB | 21     | 4682   | 81/11/27  | 83/07/05 |
| 8600398 | F156 | TT9341 | 32DB | 14     | 2994   | 82/11/28  | 83/12/07 |
| 8600398 | F156 | TT9342 | 32DB | 12     | 2634   | 81/11/26  | 82/10/21 |
| 8600398 | F156 | TT9343 | 32DB | 6      | 1178   | 83/11/15  | 84/04/10 |
| 8600398 | F156 | TT9344 | 32DB | 20     | 4562   | 83/07/18  | 85/02/07 |
| 8600398 | F156 | TT9345 | 32DB | 10     | 2258   | 83/07/21  | 84/04/28 |
| 8600398 | F156 | TT9346 | 32DB | 14     | 3178   | 81/12/04  | 83/01/05 |
| 8600398 | F156 | TT9347 | 32DB | 17     | 3754   | 81/11/22  | 83/03/06 |
| 8600398 | F156 | TT9348 | 32DB | 18     | 3978   | 82/03/27  | 83/08/06 |
| 8600398 | F156 | TT9349 | 32DB | 22     | 5090   | 81/12/04  | 83/09/01 |
| 8600398 | F156 | TT9350 | 32DB | 18     | 3986   | 82/11/23  | 84/04/04 |
| 8600398 | F156 | TT9351 | 32DB | 10     | 1986   | 82/03/16  | 82/12/03 |
| 8600398 | F156 | TT9352 | 32DB | 18     | 4202   | 82/03/09  | 83/08/16 |
| 8600398 | F156 | TT9353 | 32DB | 18     | 4026   | 81/11/24  | 83/04/11 |
| 8600398 | F156 | TT9354 | 32DB | 21     | 4938   | 82/03/17  | 83/11/24 |
| 8600398 | F156 | TT9355 | 32DB | 11     | 2626   | 83/11/03  | 84/09/26 |
| 8600398 | F156 | TT9356 | 32DB | 19     | 4386   | 82/11/08  | 84/05/09 |
| 8600398 | F156 | TT9357 | 32DB | 16     | 3666   | 82/11/13  | 84/02/14 |
| 8600398 | F156 | TT9358 | 32DB | 16     | 3674   | 83/06/24  | 84/09/25 |
| 8600398 | F156 | TT9359 | 32DB | 3      | 490    | 83/04/21  | 83/06/21 |
| 8600398 | F156 | TT9360 | 32DB | 10     | 2410   | 83/04/05  | 84/01/31 |
| 8600398 | F156 | TT9361 | 32DB | 2      | 234    | 83/05/22  | 83/06/20 |
| 8600398 | F156 | TT9362 | 32DB | 3      | 522    | 83/03/23  | 83/05/27 |
| 8600398 | F156 | TT9363 | 32DB | 5      | 770    | 83/03/27  | 83/07/01 |
| 8600398 | F156 | TT9364 | 32DB | 17     | 3978   | 83/04/01  | 84/08/10 |

|         |      |        |      |    |      |          |          |
|---------|------|--------|------|----|------|----------|----------|
| 8600398 | F156 | TT9365 | 32DB | 16 | 3594 | 83/05/19 | 84/08/10 |
| 8600398 | F156 | TT9366 | 32DB | 20 | 4650 | 83/03/24 | 84/10/25 |
| 8600398 | F156 | TT9367 | 32DB | 2  | 90   | 83/03/28 | 83/04/08 |
| 8600398 | F156 | TT9492 | 32DB | 4  | 714  | 79/06/08 | 79/09/05 |
| 8600398 | F156 | TT9493 | 32DB | 12 | 2802 | 79/06/07 | 80/05/22 |
| 8600398 | F156 | TT9494 | 32DB | 3  | 562  | 79/06/07 | 79/08/16 |
| 8600398 | F156 | TT9495 | 32DB | 14 | 3338 | 79/06/08 | 80/07/29 |
| 8600398 | F156 | TT9496 | 32DB | 11 | 2498 | 79/12/17 | 80/10/24 |
| 8600398 | F156 | TT9497 | 32DB | 20 | 4706 | 79/12/11 | 81/07/21 |
| 8600398 | F156 | TT9498 | 32DB | 9  | 1770 | 80/01/24 | 80/09/01 |
| 8600398 | F156 | TT9499 | 32DB | 24 | 5378 | 80/01/25 | 81/12/01 |
| 8600398 | F156 | TT9500 | 32DB | 9  | 1962 | 79/12/17 | 80/08/18 |
| 8600398 | F156 | TT9501 | 32DB | 6  | 1258 | 79/12/11 | 80/05/16 |
| 8600398 | F156 | TT9502 | 32DB | 15 | 3434 | 79/12/17 | 81/02/18 |
| 8600398 | F156 | TT9503 | 32DB | 9  | 1978 | 79/06/12 | 80/02/14 |
| 8600398 | F156 | TT9504 | 32DB | 9  | 1986 | 79/06/13 | 80/02/16 |
| 8600398 | F156 | TT9505 | 32DB | 15 | 3402 | 79/06/10 | 80/08/08 |
| 8600398 | F156 | TT9506 | 32DB | 2  | 298  | 79/06/14 | 79/07/21 |
| 8600398 | F156 | TT9507 | 32DB | 13 | 3042 | 79/06/07 | 80/06/21 |
| 8600398 | F156 | TT9508 | 32DB | 15 | 3498 | 81/06/18 | 82/08/29 |
| 8600398 | F156 | TT9509 | 32DB | 13 | 3018 | 80/09/10 | 81/09/22 |
| 8600398 | F156 | TT9510 | 32DB | 19 | 4426 | 81/06/21 | 82/12/26 |
| 8600398 | F156 | TT9511 | 32DB | 18 | 4194 | 81/06/19 | 82/11/25 |
| 8600398 | F156 | TT9512 | 32DB | 21 | 4898 | 80/08/03 | 82/04/07 |
| 8600398 | F156 | TT9513 | 32DB | 19 | 4498 | 80/08/03 | 82/02/16 |
| 8600398 | F156 | TT9514 | 32DB | 18 | 4282 | 80/08/05 | 82/01/29 |
| 8600398 | F156 | TT9807 | 32DB | 3  | 650  | 80/09/09 | 80/11/29 |
| 8600398 | F156 | TT9808 | 32DB | 14 | 3170 | 80/08/19 | 81/09/20 |
| 8600398 | F156 | TT9809 | 32DB | 19 | 4418 | 81/06/17 | 82/12/21 |
| 8600398 | F156 | TT9810 | 32DB | 20 | 4698 | 80/08/13 | 82/03/23 |
| 8600398 | F156 | TT9811 | 32DB | 15 | 3314 | 80/08/14 | 81/10/02 |
| 8600398 | F156 | TT9812 | 32DB | 8  | 1754 | 80/08/15 | 81/03/22 |
| 8600398 | F156 | TT9813 | 32DB | 6  | 1146 | 80/08/30 | 81/01/20 |

(89 rows affected)