ACCESSION NO. 8600204 FILETYPE ~~CTD~~ C022 TRACK NO 069139-40 PROJECT IDENTIFICATION SOUTH ATLANTIC ANTARCTIC METEOR GERMANY CRUISE

| STEP | DATE | INIT. | TAPE OR DISK DSN | NO. FILES | LRECL | BLK SIZE | NO. RECO |
|---|---|---|---|---|---|---|---|
| ORIG. TAPE | 6/23/86 | H | METEOR - A00250 | 2 | 120 | 3600 | 17-030 |
| DUPLICATE TAPE | 6/23/86 | H | W11269 | 6 | 120 | 3600 | |
| REFORMATTED TAPE | | | | | | | |
| REFORMATTED DISK | 7/9/86 | RPS | DNODC * METEOROUT. | 1 | 120 | 224 | 20 /924 |
| FIRST MULCHEK | | | | | | | |
| FINAL MULCHEK | | | | | | | |
| MPD75 OR F022 | | | | | | | |
| DATA SET FINALIZED | | | | | | | |

ERRORS REPORTED TO PRINCIPAL INVESTIGATOR:

069138 / IT 6278 —
069139 / IT 6279 —

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

COMMENTS (TRACKS DELETED, FIELDS DELETED, ETC.)

***** Record 12119 in INVENTORY *****

012586 DATA ENTRY INFORMATION SYSTEM SJH
(DATASET INVENTORY)

DATE OF ENTRY: 07/15/86

REFERENCE NUMBER: 069139 ACCESSION NUMBER: 8600204
FORMER REFERENCE NUMBER: _____ FORMER ACCESSION NUMBER: _____ (RESUB ONLY)

---

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

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

INSTITUTE (COUNTRY AND INSTITUTE CODES): 0612
PLATFORM (COUNTRY AND PLATFORM CODES): 06MT
PLATFORM TYPE: 9 - Ship DINDB CODE 09

ORIGINATORS FILE ID: _____ ORIGINATORS CRUISE ID: TT6278
CRUISE START DATE: 11/19/80 CRUISE END DATE: 12/15/80 Press PgDn
PROJECT CODE: _____ DATA USE CODE (DUC): 3 to continue

VOLUME - NUMBER OF STATIONS: 58 NUMBER OF RECORDS: 7,185

If STA/REC counts are not appropriate then enter -

NUMBER: _____ UNITS: _____

---

OCEAN AREA
CODE 1: 32B MEANING: SW Atlantic (limit-20 W)
CODE 2: ___ MEANING: _____
CODE 3: ___ MEANING: _____

---

DINDB TRACK TRANSACTION GENERATED: __/__/__

***** Record 12121 in INVENTORY *****

012588 DATA ENTRY INFORMATION SYSTEM SJH
(DATASET INVENTORY)

DATE OF ENTRY: 07/15/86

REFERENCE NUMBER: 069140 ACCESSION NUMBER: 8600204
FORMER REFERENCE NUMBER: _____ FORMER ACCESSION NUMBER: _____ (RESUB ONLY)

---

INVENTORY

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

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

INSTITUTE (COUNTRY AND INSTITUTE CODES): 0612
PLATFORM (COUNTRY AND PLATFORM CODES): 06MT
PLATFORM TYPE: 9 - Ship DINDB CODE 09

ORIGINATORS FILE ID: _____ ORIGINATORS CRUISE ID: TT6279
CRUISE START DATE: 02/07/81 CRUISE END DATE: 03/07/81 Press PgDn
PROJECT CODE: _____ DATA USE CODE (DUC): 3 to continue

VOLUME - NUMBER OF STATIONS: 85 NUMBER OF RECORDS: 13,239

If STA/REC counts are not appropriate then enter -

NUMBER: _____ UNITS: _____

---

OCEAN AREA

CODE 1: 32B MEANING: SW Atlantic (limit-20 W)
CODE 2: ___ MEANING: _____
CODE 3: ___ MEANING: _____

---

DINDB TRACK TRANSACTION GENERATED: __/__/__

1. General Structure of the Format

(record length: 120 byte)

| Byte No. | |
|---|---|
| | 1.Station |
| 1 - 119 | Header information |
| 120 | blank |
| 121 - 239 | first data record |
| 240 | blank |
| 241 - 359 | second data record |
| 360 | blank |
| | . |
| | . |
| | . |
| | 2.Station |
| | Header information |
| | blank |
| | first data record |
| | . |
| | . |
| | . |
| | Last Station |
| | Header information |
| | . |
| | . |
| | . |
| | $EOF |
| | $EOF |

## II. Description of the Format

### II. 1. Header

| Byte No. | FORMAT | |
|---|---|---|
| 1 - 3 | I3 | Ship code |
| 4 - 8 | I5 | Originator's station number |
| 9 | A1 | Indicator for anchor station (if anchor station: 'A', otherwise: blank) |
| 10 - 14 | I5 | Latitude in degree, minute, and 1/10-minute |
| 15 | I1 | Quadrant (ICES code) |
| 16 - 21 | I6 | Longitude in degree, minute, and 1/10-minute |
| 22 - 24 | I3 | Year (last three digits) |
| 25 - 26 | I2 | Month |
| 27 - 28 | I2 | Day |
| 29 - 32 | I4 | Observation time (begin of measurement) in hours and minutes [GMT] |
| 33 - 36 | I4 | Depth to bottom (uncorrected) [m] |
| | | (37-54 voluntary information) |
| 37 - 38 | I2 | Wind direction in 10°-units<br>00 - calm<br>01 - 10°<br>⋮<br>36 - 360° |
| 39 - 40 | I2 | Wind velocity [kn] |
| 41 - 44 | I4 | Dry bulb [1/10°C] |
| 45 - 48 | I4 | Wet bulb [1/10°C] |
| 49 - 50 | I2 | Wave height [1/2 m] |
| 51 - 52 | I2 | Wave period [sec] |
| 53 | I1 | Weather (as in ICES Manual on Punch Cards) |
| 54 | I1 | Ice (as in ICES Manual on Punch Cards) |
| 55 - 58 | I4 | Number of observation depths (=number of data cycles) for this STD profile |
| 59 | I1 | Number of parameters per depth (cycle) ("pressure" included) |
| 60 | I1 | Indicator for up-trace and down-trace<br>1 - down-trace<br>2 - up-trace |

.../3

| Byte No. | FORMAT | Parameter |
|---|---|---|
| 61 | I1 | Indicator for the existence of sound velocity measurements<br>1 - yes<br>2 - no |
| 62 | I1 | Indicator for the existence of sound scattering measurements (as in byte No.61) |
| 63 | I1 | Indicator for the existence of attenuation measurements (as in byte No.61) |
| 64 | I1 | Indicator for the existence of light scattering measurements (as in byte No.61) |
| 65 - 66 | I2 | Number of data cycles per record |
| 67 - 76 | 10I1 | Starting with byte No.67 for each parameter the number of digits behind the decimal point should be given in the same sequence of order as the parameters in the following data cycles. Bytes not being used keep blank. |
| 77 - 100 | | blank |
| *101 - 104 | I4 | Number of data cycles in the originator's station |
| *105 - 108 | F4.2 | Tolerance limit for the temperature compression |
| *109 - 113 | F5.3 | Tolerance limit for the conductivity (or salinity) compression |
| *114 - 117 | I4 | Consecutive station number |
| 118 - 119 | A2 | Deck No. (enter code '31') |
| 120 | | blank |

* Information only available in the file with the compressed STD/CTD data.

## II.2. Data Record

| Byte-No. | Format | |
|---|---|---|
| 121 | I1 | Indicator for the following parameter (Table I) |
| 122-126 | I5 | Parameter 1 up to the number of decimals given in byte 67 of the header |
| 127 | I1 | Indicator for the following parameter (Table I) |
| 128-132 | I5 | Parameter 2 up to the number of decimals given in byte 68 of the header |
| 133 | I1 | Indicator for the following parameter (Table I) |
| 134-138 | I5 | Parameter 3 up to the number of decimals given in byte 69 of the header |
| ⋮ | ⋮ | ⋮ |
| | | Second data cycle (as before) |
| | | Third data cycle (as before) |
| | | ⋮ |
| | | ( as many data cycles as fit into this record. A data cycle may not extend to the following record.) |
| 229 | I1 | Code figure indicating the end of the STD/CTD profile in this record<br>0 - no<br>1 - yes |
| 230-237 | | blank |
| 238-239 | I2 | Deck No. ('33') |
| 241 | I1 | Begin of the second data record |
| ⋮ | | ⋮ |
| 359 | | End of the second data record |
| ⋮ | | ⋮ |

Table I :

| Parameter code | | Parameter |
|---|---|---|
| 1 | - | Pressure [dbar] |
| 2 | - | Temperature [°C] |
| 3 | - | Conductivity [mS/cm] |
| 4 | - | Salinity [‰] |
| 5 | - | Sound velocity [m/s] |

# DEUTSCHES HYDROGRAPHISCHES INSTITUT

Bundesoberbehörde im Geschäftsbereich des Bundesministers für Verkehr
- Deutsches Ozeanographisches Datenzentrum -


Luftpost


Deutsches Hydrographisches Institut, Postfach 2 20, 2000 Hamburg 4


Mr. Gregory W. Withee
Director
National Oceanographic Data Center
National Oceanic and
Atmospheric Administration
Washington, D. C. 202 33
U.S.A.


Dienstgebäude: Bernhard-Nocht-Str. 78
Fernsprecher: (0 40) 31 90 - 397
oder 31 90 - 1
Fernschreiber: 02 11 138 bmvhh d
Telegramme: Hydrodienst Hamburg


4804/86 Z53
Bei Rückantwort bitte angeben

HAMBURG, den 28 May, 1986

Subj.: Request for Meteordata from Scripps Institution of Oceanography, University of California

Ref.: 1) Your letter of 6 May 1986 - E/OC13/AP -
2) Your Sam's Club Message - # 8358 of 23 May 1986 -

Dear Mr. Withee,

In response to your request for data from Meteor cruise 56 I will ~~enclose~~ forward a tape *) comprising:

File 1: 58 CTD stations from the South Atlantic (5 978 Records)
File 2: 85 CTD stations from the Antarctic (11 052 Records).

These are all hydrographic data available at DOD from Meteor cruise 56, which was actually subdivided into four parts. Data are available only from part 2 (12 Nov. through 19 Dec. 1980) and part 4 (1. Febr. through 19. Mar. 1981), the remaining data have yet to come.

Instead of filling your forms I enclose the complete format description and copies of the ROSCOP forms except for part 4 which is still missing. I trust this will provide at least equivalent information.

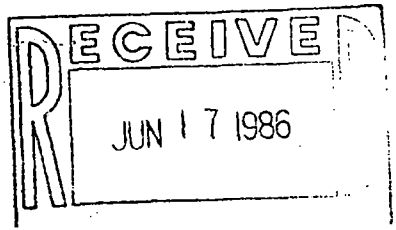
If we can be of further assistance, please let it me know.

Yours sincerely,

(Horst Hecht)

17,030

*) under separate cover



| NAME | PHONE # | ORG/TASK # | DATE SUBMITTED | DATE DUE | BIN # |
|---|---|---|---|---|---|
| HALMINSKI | 634-7441 | | 6/23/86 | | 33 |

PMENT TO BE USED AND FUNCTION TO BE PREFORMED

CTD SCAN. PRINT 2 PAGES OF RECORDS

GERMAN - 122

T MEDIUM
PER CARD DISK (TAPE)
KETTE OTHER(SPECIFY)

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

/DISKETTE INFORMATION

| | TAPE #/ ~~DISKETTE~~ | SLOT # | TRK | DENSITY | PARITY | LABEL TYPE | RECORD TYPE | RECORD LENGTH | MAX. BLOCK SIZE | # OF FILES |
|---|---|---|---|---|---|---|---|---|---|---|
| | METEOR | | 9 | 1600 | ODD | NL | FB | 120 | 3600 | |
| | SECTOR SIZE | EXCHANGE TYPE | CODE: (ASCII) EBCDIC BCD SDF OTHER(SPECIFY) | | | | DATA SET NAME | | | PURGE DATE |
| T | TAPE #/ DISKETTE | SLOT # | TRK | DENSITY | PARITY | LABEL TYPE | RECORD TYPE | RECORD LENGTH | MAX. BLOCK SIZE | # OF FILES |
| | | | | | | | | | | |
| | SECTOR SIZE | EXCHANGE TYPE | CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY) | | | | DATA SET NAME | | | PURGE DATE |
| | TAPE #/ ~~DISKETTE~~ | SLOT # | TRK | DENSITY | PARITY TYPE | LABEL TYPE | RECORD TYPE | RECORD LENGTH | MAX. BLOCK SIZE | # OF FILES |
| | | | | | | | | | | |
| UT | SECTOR SIZE | EXCHANGE TYPE | CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY) | | | | DATA SET NAME | | | PURGE DATE |

IAL INSTRUCTIONS

ESTIMATED EXECUTION TIME

USE ONLY

| # | DATE JOB COMPLETED | START TIME | END TIME | PRIORITY | DEVICES USED, NUMBER OF TAPE MOUNTS, LINES PRINTE DISKETTES USED, CARDS PUNCHED, CARDS KEYVERIFIED |
|---|---|---|---|---|---|
| 2305 | 06/25/86 | 09.10 | 09.15 | C | completed by AHC |

ENT

| NAME | PHONE # | ORG/TASK # | DATE SUBMITTED | DATE DUE | BIN # |
|---|---|---|---|---|---|
| HALMINSKI | 634-7441 | | 6/27/86 | | 33 |

IPMENT TO BE USED AND FUNCTION TO BE PREFORMED

CTD MAKE SL COPY. RUN SCAN ON OUTPUT

GERMAN-122

UT MEDIUM
APER CARD DISK (TAPE)
SKETTE OTHER(SPECIFY)

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

E/DISKETTE INFORMATION

| | TAPE #/ ~~DISKETTE~~ | SLOT # | TRK | DENSITY | PARITY | LABEL TYPE | RECORD TYPE | RECORD LENGTH | MAX. BLOCK SIZE | # OF FILE |
|---|---|---|---|---|---|---|---|---|---|---|
| | METEOR | | 9 | 1600 | ODD | NL | FB | 120 | 3600 | 2 |
| | SECTOR SIZE | EXCHANGE TYPE | CODE: (ASCII) EBCDIC BCD SDF OTHER(SPECIFY) | | | | DATA SET NAME | | | PURG DATE |
| UT | TAPE #/ DISKETTE | SLOT # | TRK | DENSITY | PARITY | LABEL TYPE | RECORD TYPE | RECORD LENGTH | MAX. BLOCK SIZE | # OF FILE |
| | | | | | | | | | | |
| | SECTOR SIZE | EXCHANGE TYPE | CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY) | | | | DATA SET NAME | | | PURG DATE |
| | TAPE #/ ~~DISKETTE~~ | SLOT # | TRK | DENSITY | PARITY TYPE | LABEL TYPE | RECORD TYPE | RECORD LENGTH | MAX. BLOCK SIZE | # OF FILE |
| | W11269 | | 9 | 1600 | | SL | FB | 120 | 3600 | |
| TPUT | SECTOR SIZE | EXCHANGE TYPE | CODE: (ASCII) EBCDIC BCD SDF OTHER(SPECIFY) | | | | DATA SET NAME DNODC*8600204-01 | | | PURG DATE |

ECIAL INSTRUCTIONS

PLEASE RUSH

NEED 'W' TAPE

ESTIMATED EXECUTION TIME

---

31 USE ONLY

| 3 # | DATE JOB COMPLETED | START TIME | END TIME | PRIORITY | DEVICES USED, NUMBER OF TAPE MOUNTS, LINES PRIN DISKETTES USED, CARDS PUNCHED, CARDS KEYVERIFI |
|---|---|---|---|---|---|
| 27[illegible] | 06/27/86 | 08:15 | 08:25 | B | Completed by Andy |

## Required Documentation

To make possible interpretation by secondary data users, data submitted to NODC should be completely documented. Information about the originator, measured parameters, units, instruments, methods, data reduction procedures, data formats, and tape characteristics are all essential for the data to be properly interpreted by secondary users. These items should be reported, if possible, on the Data Documentation Form (NOAA Form 24-13 enclosed) available on request from NODC.

It should be specified whenever data were obtained during unusual environmental conditions, whether natural or man-made. Otherwise, the data will be considered questionable and may be rejected by our quality control system.

Magnetic Tape Specifications for Submitting Data to NODC

| Tape Attributes | Preferred |
|---|---|
| Reel Size: | 1/2 inch; up to 2400 feet in length |
| Track: | 9 |
| Density: | 800 or 1600 BPI |
| Parity: | Odd |
| Character Code: | ASCII or EBCDIC |
| Internal Label: | ANSI Standard or non-labeled |
| Physical Record Type: | 128 chars Fixed or variable length |
| Maximum Logical Record: Length: | 4000 characters |
| Maximum Physical Block Size: | 3,600 chars 32000 characters |
| Blocking Type: | Fixed, variable or variable/spanned |
| External Label/External ID No. | Any |

# STD/CTD Data Format
# for the Delivery of such Data to the DOD

(brief description)

[1.revision, April 1977]

Deutsches Ozeanographisches Datenzentrum (DOD)
Hamburg, 1975

8600204

July 18, 1986

To: Services Branch, A. Bargeskl

From: Data Acquisition and Management Branch, F. Mitchell F. M. Tchell

Subject: Data Services Request

The Following data sets have been transferred to the Data Processing Branch today, and [illegible] Acc: 8600222 Ref: 67813 - 14 (NOAA Ship JORDAN) has a request from Steve Cook, NOS/NMFS- La Jolla, for a flexure point listing.

It is my understanding that a request from J. Reed, UCAL-SD, SIO exist for the STD cruise of the METEOR; Acc: 8600204 Ref: TT6278-79.

CC: C. NOE

8600204

F022 TT6278-79

① File IDs columns 4-9
changed to TT6278-6279

***** Record 12118 in INVENTORY *****

012585 DATA ENTRY INFORMATION SYSTEM SJH
(DATASET INVENTORY)

DATE OF ENTRY: 07/15/86

REFERENCE NUMBER: TT6278 ACCESSION NUMBER: 8600204
FORMER REFERENCE NUMBER: _____ FORMER ACCESSION NUMBER: _____ (RESUB ONLY)

---

INVENTORY

MEDIA-IN: 01 - Digital Magnetic Tape DINDB CODE 09
EXCHANGE (FORMAT): E018 - STD/CTD (F022)
PROCESSING (FORMAT): F022 - CTD/STD

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

INSTITUTE (COUNTRY AND INSTITUTE CODES): 0612
PLATFORM (COUNTRY AND PLATFORM CODES): 06MT
PLATFORM TYPE: 9 - Ship DINDB CODE 09

ORIGINATORS FILE ID: _____ ORIGINATORS CRUISE ID: 56
CRUISE START DATE: 11/19/80 CRUISE END DATE: 12/15/80 Press PgDn
PROJECT CODE: _____ DATA USE CODE (DUC): 3 to continue

VOLUME - NUMBER OF STATIONS: 58 NUMBER OF RECORDS: 7,185

If STA/REC counts are not appropriate then enter -

NUMBER: _____ UNITS: _____

---

OCEAN AREA

CODE 1: 32B MEANING: SW Atlantic (limit-20 W)
CODE 2: ___ MEANING: _____
CODE 3: ___ MEANING: _____

---

DINDB TRACK TRANSACTION GENERATED: / /

***** Record 12120 in INVENTORY *****

012587 DATA ENTRY INFORMATION SYSTEM SJH
(DATASET INVENTORY)

DATE OF ENTRY: 07/15/86

REFERENCE NUMBER: TT6279 ACCESSION NUMBER: 8600204
FORMER REFERENCE NUMBER: _____ FORMER ACCESSION NUMBER: _____ (RESUB ONLY)

---

INVENTORY

MEDIA-IN: 01 - Digital Magnetic Tape DINDB CODE 09
EXCHANGE (FORMAT): E018 - STD/CTD (F022)
PROCESSING (FORMAT): F022 - CTD/STD

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

INSTITUTE (COUNTRY AND INSTITUTE CODES): 0612
PLATFORM (COUNTRY AND PLATFORM CODES): 06MT
PLATFORM TYPE: 9 - Ship DINDB CODE 09

ORIGINATORS FILE ID: _____ ORIGINATORS CRUISE ID: 56
CRUISE START DATE: 02/07/81 CRUISE END DATE: 03/07/81 Press PgDn
PROJECT CODE: _____ DATA USE CODE (DUC): 3 to continue

VOLUME - NUMBER OF STATIONS: 85 NUMBER OF RECORDS: 13,239

If STA/REC counts are not appropriate then enter -

NUMBER: _____ UNITS: _____

---

OCEAN AREA

CODE 1: 32B MEANING: SW Atlantic (limit-20 W)
CODE 2: ___ MEANING: _____
CODE 3: ___ MEANING: _____

---

DINDB TRACK TRANSACTION GENERATED: __/__/__

ACCESSION NO. 8600204 FILETYPE F022 TRACK NO JT6278-79 PROJECT IDENTIFICATION SOUTH ATLANTIC ANTARCTIC METEOR GERMANY CRUISE

| STEP | DATE | INIT. | TAPE OR DISK DSN. | NO. FILES | LRECL | BLK SIZE | NO. RECOR |
|---|---|---|---|---|---|---|---|
| ORIG. TAPE | 6/23/86 | " | METEOR - A00250 | 2 | 120 | 3600 | 17030 |
| DUPLICATE TAPE | 6/23/86 | " | W11269 | 6 | 120 | 3600 | |
| REFORMATTED TAPE | | | | | | | |
| REFORMATTED DISK | 7/9/86 | R.P.S. | D NODC*METEOROUT. | 1 | 120 | 224 | 20,42 |
| 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.)

00036

DATA ENTRY INFORMATION SYSTEM
(SUBMISSIONS)

DATE OF ENTRY: / /
DATE OF RECEIPT: / /

ACCESSION NUMBER: 86002204
FORMER ACCESSION NUMBER: _____ (RESUBS ONLY)

---

SUBMITTER'S NAME: DR HORST HECHT (FIRST M.I. LAST)
SUBMITTER'S ADDRESS: DEUTSCHES HYDROGRAPHISCHES INSTITUT
ADDRESS: POSTFACH 2-20
CITY: 2400 HAMBURG 4 STATE: __ ZIP: _____
COUNTRY: GERMANY

NODC SUBMITTER CODE: ____
L.O. AREA: __

SUBMISSION PRIORITY: _____

---

CONTENTS OF SUBMISSION

DOCUMENTATION? Y MAGNETIC TAPE(S)? DIGI DISKETTE(S)? N .

STRIP CHART(S)? N LOG SHEET(S)? N MAP(S)/CHART(S)? N

PUBLICATION(S)? N MICROFORM(S)? N CASSETTE(S) N Press PgDn to continue

DESCRIPTION: ONE MAG TAPE CTD DATA, ROSCOPS, SAMPLE DATA DUMP
(to be entered on Submitter acknowledgement letter)

---

SUBMISSION MANAGER (3 INITIALS): SJH

DATE TRANSFERRED TO SUBMISSION MANAGER : / /

SUBMITTER ACKNOWLEDGEMENT DATE: / /

---

ENTIRE SUBMISSION ON "HOLD" STATUS

WHEN: / / WHY: _____ WHO'S RESPONSIBLE: ____ RESTART DATE: / /
REASON: _____
WHEN: / / WHY: _____ WHO'S RESPONSIBLE: ____ RESTART DATE: / /
REASON: _____
SUBMITTER CONTACTED ON: / /

---

ENTIRE SUBMISSION CANCELLED

WHEN: / / DISPOSITION: _____

REASON: _____

---

NEED ACCESS AND TAPE NUMBER. WILL PUT FOLDER IN FOREIGN BIN. SID
6/26

# DEUTSCHES HYDROGRAPHISCHES INSTITUT

Bundesoberbehörde im Geschäftsbereich des Bundesministers für Verkehr
- Deutsches Ozeanographisches Datenzentrum -

Luftpost

Deutsches Hydrographisches Institut, Postfach 2 20, 2000 Hamburg 4

Mr. Gregory W. Withee
Director
National Oceanographic Data Center
National Oceanic and
Atmospheric Administration
Washington, D. C. 202 33
U.S.A.

Dienstgebäude: Bernhard-Nocht-Str. 78
Fernsprecher: (0 40) 31 90 - 397
oder 31 90 - 1
Fernschreiber: 02 11 138 bmvhh d
Telegramme: Hydrodienst Hamburg

4804/86 Z53
Bei Rückantwort bitte angeben

HAMBURG, den 28 May, 1986

Subj.: Request for Meteordata from Scripps Institution of Oceanography, University of California

Ref.: 1) Your letter of 6 May 1986 - E/OC13/AP -
2) Your Sam's Club Message - # 8358 of 23 May 1986 -

Dear Mr. Withee,

In response to your request for data from Meteor cruise 56 I will ~~enclose~~ forward a tape *) comprising:

File 1: 58 CTD stations from the South Atlantic (5 978 Records)
File 2: 85 CTD stations from the Antarctic (11 052 Records).

These are all hydrographic data available at DOD from Meteor cruise 56, which was actually subdivided into four parts. Data are available only from part 2 (12 Nov. through 19 Dec. 1980) and part 4 (1. Febr. through 19. Mar. 1981), the remaining data have yet to come.

Instead of filling your forms I enclose the complete format description and copies of the ROSCOP forms except for part 4 which is still missing. I trust this will provide at least equivalent information.

If we can be of further assistance, please let it me know.

Yours sincerely,

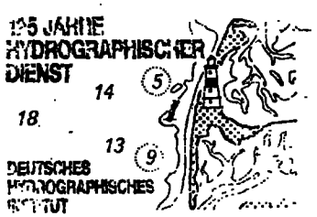
(Horst Hecht)

17,030

*) under separate cover



8600204 A00250


125 JAHRE
HYDROGRAPHISCHER
DIENST
14
18
13
DEUTSCHES
HYDROGRAPHISCHES


HAMBURG
28.5.86
2000


BUNDESPOST
160


MIT LUFTPOST
PAR AVION

| R NAME | PHONE # | ORG/TASK # | DATE SUBMITTED | DATE DUE | BIN # |
|---|---|---|---|---|---|
| HALMINSKI | 634-7441 | | 6/23/86 | | 33 |

IPMENT TO BE USED AND FUNCTION TO BE PREFORMED

CTD SCAN. PRINT 2 PAGES OF RECORDS

GERMAN - 122

PUT MEDIUM
PAPER CARD DISK (TAPE)
ISKETTE OTHER(SPECIFY)

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

E/DISKETTE INFORMATION

| | TAPE #/ ~~DISKETTE~~ | SLOT # | TRK | DENSITY | PARITY | LABEL TYPE | RECORD TYPE | RECORD LENGTH | MAX. BLOCK SIZE | # OF FILES |
|---|---|---|---|---|---|---|---|---|---|---|
| | METEOR | | 9 | 1600 | ODD | NL | FB | 120 | 3600 | |
| | SECTOR SIZE | EXCHANGE TYPE | CODE: (ASCII) EBCDIC BCD SDF OTHER(SPECIFY) | | | | DATA SET NAME | | | PURGE DATE |
| PUT | TAPE #/ DISKETTE | SLOT # | TRK | DENSITY | PARITY | LABEL TYPE | RECORD TYPE | RECORD LENGTH | MAX. BLOCK SIZE | # OF FILES |
| | | | | | | | | | | |
| | SECTOR SIZE | EXCHANGE TYPE | CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY) | | | | DATA SET NAME | | | PURGE DATE |
| | TAPE #/ ~~DISKETTE~~ | SLOT # | TRK | DENSITY | PARITY TYPE | LABEL TYPE | RECORD TYPE | RECORD LENGTH | MAX. BLOCK SIZE | # OF FILES |
| | | | | | | | | | | |
| TPUT | SECTOR SIZE | EXCHANGE TYPE | CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY) | | | | DATA SET NAME | | | PURGE DATE |

ECIAL INSTRUCTIONS

ESTIMATED EXECUTION TIME

31 USE ONLY

| 3 # | DATE JOB COMPLETED | START TIME | END TIME | PRIORITY | DEVICES USED, NUMBER OF TAPE MOUNTS, LINES PRINTED, DISKETTES USED, CARDS PUNCHED, CARDS KEYVERIFIED |
|---|---|---|---|---|---|
| 6162305 | 06/25/86 | 09:10 | 09:15 | C | Completed by Andy |

MENTS

| R NAME | PHONE # | ORG/TASK # | DATE SUBMITTED | DATE DUE | BIN # |
|---|---|---|---|---|---|
| HALMINSKI | 634-7441 | | 6/27/86 | | 33 |

IPMENT TO BE USED AND FUNCTION TO BE PREFORMED

CTD MAKE SL COPY. RUN SCAN ON OUTPUT

GERMAN-122

| PUT MEDIUM | OUTPUT MEDIUM |
|---|---|
| PAPER CARD DISK (TAPE) ISKETTE OTHER(SPECIFY) | CARD DISK PRINT (TAPE) PLOT DISKETTE OTHER(SPECIFY) |

E/DISKETTE INFORMATION

| | TAPE #/ ~~DISKETTE~~ | SLOT # | TRK | DENSITY | PARITY | LABEL TYPE | RECORD TYPE | RECORD LENGTH | MAX. BLOCK SIZE | # OF FILES |
|---|---|---|---|---|---|---|---|---|---|---|
| | METEOR | | 9 | 1600 | ODD | NL | FB | 120 | 3600 | 2 |
| | SECTOR SIZE | EXCHANGE TYPE | CODE: (ASCII) EBCDIC BCD SDF OTHER(SPECIFY) | | | | DATA SET NAME | | | PURGE DATE |
| PUT | TAPE #/ DISKETTE | SLOT # | TRK | DENSITY | PARITY | LABEL TYPE | RECORD TYPE | RECORD LENGTH | MAX. BLOCK SIZE | # OF FILES |
| | | | | | | | | | | |
| | SECTOR SIZE | EXCHANGE TYPE | CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY) | | | | DATA SET NAME | | | PURGE DATE |
| | TAPE #/ ~~DISKETTE~~ | SLOT # | TRK | DENSITY | PARITY TYPE | LABEL TYPE | RECORD TYPE | RECORD LENGTH | MAX. BLOCK SIZE | # OF FILES |
| | W11269 | | 9 | 1600 | | SL | FB | 120 | 3600 | |
| TPUT | SECTOR SIZE | EXCHANGE TYPE | CODE: (ASCII) EBCDIC BCD SDF OTHER(SPECIFY) | | | | DATA SET NAME DNODC*8600204-01 | | | PURGE DATE |

CIAL INSTRUCTIONS

PLEASE RUSH

NEED 'W' TAPE

ESTIMATED EXECUTION TIME

31 USE ONLY

| S # | DATE JOB COMPLETED | START TIME | END TIME | PRIORITY | DEVICES USED, NUMBER OF TAPE MOUNTS, LINES PRINTE DISKETTES USED, CARDS PUNCHED, CARDS KEYVERIFIED |
|---|---|---|---|---|---|
| 062704 | 06/27/86 | 08:15 | 08:25 | B | Completed by Andy |

MENTS

Required Documentation

To make possible interpretation by secondary data users, data submitted to NODC should be completely documented. Information about the originator, measured parameters, units, instruments, methods, data reduction procedures, data formats, and tape characteristics are all essential for the data to be properly interpreted by secondary users. These items should be reported, if possible, on the Data Documentation Form (NOAA Form 24-13 enclosed) available on request from NODC.

It should be specified whenever data were obtained during unusual environmental conditions, whether natural or man-made. Otherwise, the data will be considered questionable and may be rejected by our quality control system.

Magnetic Tape Specifications for Submitting Data to NODC

| Tape Attributes | Preferred |
|---|---|
| Reel Size: | 1/2 inch; up to 2400 feet in length |
| Track: | 9 |
| Density: | 800 or 1600 BPI |
| Parity: | Odd |
| Character Code: | ASCII or EBCDIC |
| Internal Label: | ANSI Standard or non-labeled |
| Physical Record Type: | 120 chars Fixed or variable length |
| Maximum Logical Record: Length: | 4000 characters |
| Maximum Physical Block Size: | 3,600 chars 32000 characters |
| Blocking Type: | Fixed, variable or variable/spanned |
| External Label/External ID No. | Any |

# STD/CTD Data Format
# for the Delivery of such Data to the DOD
# (brief description)

[1.revision, April 1977]

Deutsches Ozeanographisches Datenzentrum (DOD)
Hamburg, 1975

I. General Structure of the Format
(record length: 120 byte)

| Byte No. | |
|---|---|
| | 1.Station |
| 1 - 119 | Header information |
| 120 | blank |
| 121 - 239 | first data record |
| 240 | blank |
| 241 - 359 | second data record |
| 360 | blank |
| | . |
| | . |
| | . |
| | 2.Station |
| | Header information |
| | blank |
| | first data record |
| | . |
| | . |
| | . |
| | Last Station |
| | Header information |
| | . |
| | . |
| | . |
| | $EOF |
| | $EOF |

## II. Description of the Format

### II. 1. Header

| Byte No. | FORMAT | |
|---|---|---|
| 1 - 3 | I3 | Ship code |
| 4 - 8 | I5 | Originator's station number |
| 9 | A1 | Indicator for anchor station (if anchor station: 'A', otherwise: blank) |
| 10 - 14 | I5 | Latitude in degree, minute, and 1/10-minute |
| 15 | I1 | Quadrant (ICES code) |
| 16 - 21 | I6 | Longitude in degree, minute, and 1/10-minute |
| 22 - 24 | I3 | Year (last three digits) |
| 25 - 26 | I2 | Month |
| 27 - 28 | I2 | Day |
| 29 - 32 | I4 | Observation time (begin of measurement) in hours and minutes [GMT] |
| 33 - 36 | I4 | Depth to bottom (uncorrected) [m] |
| | | (37-54 voluntary information) |
| 37 - 38 | I2 | Wind direction in 10°-units<br>00 - calm<br>01 - 10°<br>⋮<br>36 - 360° |
| 39 - 40 | I2 | Wind velocity [kn] |
| 41 - 44 | I4 | Dry bulb [1/10°C] |
| 45 - 48 | I4 | Wet bulb [1/10°C] |
| 49 - 50 | I2 | Wave height [1/2 m] |
| 51 - 52 | I2 | Wave period [sec] |
| 53 | I1 | Weather (as in ICES Manual on Punch Cards) |
| 54 | I1 | Ice (as in ICES Manual on Punch Cards) |
| 55 - 58 | I4 | Number of observation depths (=number of data cycles) for this STD profile |
| 59 | I1 | Number of parameters per depth (cycle) ("pressure" included) |
| 60 | I1 | Indicator for up-trace and down-trace<br>1 - down-trace<br>2 - up-trace |

.../3

| Byte No. | FORMAT | Parameter |
|---|---|---|
| 61 | I1 | Indicator for the existence of sound velocity measurements<br>1 - yes<br>2 - no |
| 62 | I1 | Indicator for the existence of sound scattering measurements (as in byte No.61) |
| 63 | I1 | Indicator for the existence of attenuation measurements (as in byte No.61) |
| 64 | I1 | Indicator for the existence of light scattering measurements (as in byte No.61) |
| 65 - 66 | I2 | Number of data cycles per record |
| 67 - 76 | 10I1 | Starting with byte No.67 for each parameter the number of digits behind the decimal point should be given in the same sequence of order as the parameters in the following data cycles. Bytes not being used keep blank. |
| 77 - 100 | | blank |
| *101 - 104 | I4 | Number of data cycles in the originator's station |
| *105 - 108 | F4.2 | Tolerance limit for the temperature compression |
| *109 - 113 | F5.3 | Tolerance limit for the conductivity (or salinity) compression |
| *114 - 117 | I4 | Consecutive station number |
| 118 - 119 | A2 | Deck No. (enter code '31') |
| 120 | | blank |

* Information only available in the file with the compressed STD/CTD data.

## II.2. Data Record

| Byte-No. | Format | |
|---|---|---|
| 121 | I1 | Indicator for the following parameter (Table I) |
| 122-126 | I5 | Parameter 1 up to the number of decimals given in byte 67 of the header |
| 127 | I1 | Indicator for the following parameter (Table I) |
| 128-132 | I5 | Parameter 2 up to the number of decimals given in byte 68 of the header |
| 133 | I1 | Indicator for the following parameter (Table I) |
| 134-138 | I5 | Parameter 3 up to the number of decimals given in byte 69 of the header |
| ⋮ | ⋮ | ⋮ |
| | | Second data cycle (as before) |
| | | Third data cycle (as before) |
| | | ⋮ |
| | | ( as many data cycles as fit into this record. A data cycle may not extend to the following record.) |
| 229 | I1 | Code figure indicating the end of the STD/CTD profile in this record<br>0 - no<br>1 - yes |
| 230-237 | | blank |
| 238-239 | I2 | Deck No. ('33') |
| 241 | I1 | Begin of the second data record |
| ⋮ | | ⋮ |
| 359 | | End of the second data record |
| ⋮ | | ⋮ |

Table I :

| Parameter code | | Parameter |
|---|---|---|
| 1 | - | Pressure [dbar] |
| 2 | - | Temperature [°C] |
| 3 | - | Conductivity [mS/cm] |
| 4 | - | Salinity [‰] |
| 5 | - | Sound velocity [m/s] |
| 6 | - | Attenuation [1/m] |
| 7 | - | |
| 8 | - | |
| 9 | - | |
| 0 | - | |

ROSCOP (2nd edition)

# OCEANOGRAPHY

## GENERAL CRUISE INVENTORY

A00
DATA CENTRE: _____
REFERENCE No : 85109 DB

## A - GENERAL INFORMATION ON WORK PERFORMED

A01 Expedition/Project: FIBEX
Cruise No. or name: 56 T.1

A02 Ship or platform: „Meteor" DBBH
Platform type: C1

| | | YES | NO | PART |
|---|---|---|---|---|
| A91 | Declared national prog.? | X | | |
| | Exchange restricted? | | X | |

A92 Co-operative programme? YES [X] NO [ ] Name: FIBEX
Co-ordinated internationally? [ ] [X] By whom? _____

A03 Country: F. R. Germany
A04 Organization: MPI / Mainz
A05 Chief scientist(s): Prof. Dr. W. Seiler

A06 NAMES AND ADDRESSES OF ORGANIZATIONS AND PERSONS

Whom to query
a IfM, Kiel T. Müller
b MPI, Mainz
c Inst. für Meteorologie, Ffm
d _____

Final disposition of data
A IfM, Kiel T. Müller
B MPI, Mainz
C Inst. für Meteorologie, Frankfurt
D _____
E DOD, Hamburg

A07 Date: from: 07/10/80 (DAY MONTH YEAR)
to: 07/11/80

A08 General ocean areas: 23a, 32

A09 Type(s) of marine zone(s): 06

A10 Geographic area — Latitude ___°___'___" N/S — Longitude ___°___'___" E/W

*If all data were collected at a fixed station, fill in the co-ordinates*

| Discipline and type of measurements | Index 10 x 10 Qc | L | G | G | Index 1° x 1° | Discipline and type of measurements | Index 10 x 10 Qc | L | G | G | Index 1° x 1° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Air chemistry | 7 | 4 | 0 | 1 | | | | | | | |
| M01, | 7 | 3 | 0 | 2 | Messungen werden kontinuierlich auf der [illegible] | | | | | | |
| H33, | 7 | 2 | 0 | 2 | Daten werden Hamburg mit [illegible] übermittelt. | | | | | | |
| | 7 | 1 | 0 | 2 | | | | | | | |
| | 7 | 0 | 0 | 2 | | | | | | | |
| | 7 | 0 | 0 | 3 | | | | | | | |
| | 5 | 0 | 0 | 3 | | | | | | | |
| D01, 02 | 7 | 3 | 0 | 2 | 43, 31, 00 | | | | | | |
| H10 | 7 | 3 | 0 | 2 | 31 | | | | | | |

## M - METEOROLOGY

| | Number | i | l | Format | | Number | i | l | Format |
|---|---|---|---|---|---|---|---|---|---|
| M01 Upper air observations | cont. | b c | 8 C | | M04 Ice observations | | | | |
| M02 Incident radiation | | | | | M05 Occasional standard measurements | | | | |
| M03 Air-sea interface studies | | | | | M06 Systematic standard measurements | | | | |
| | | | | | M90 Other measurements | | | | |

*Remarks*

The enclosed ROSCOPS are already in the system, these are duplicates.

Please provide WDC-A a copy of the Receipt-Acknowledgement letter.

# H - HYDROGRAPHY

| | HS SURFACE | Number | i | l | Format | | NEAR SEA FLOOR (⩽ 10 m) | Number | i | l | Format |
|---|---|---|---|---|---|---|---|---|---|---|---|
| H01 | Continuous temperature recording | | | | | H05 | Continuous temperature recording | | | | |
| H02 | Continuous salinity recording | | | | | H06 | Continuous salinity recording | | | | |
| H03 | Discrete temperature measurements | | | | | H07 | Discrete temperature measurements | | | | |
| H04 | Discrete salinity measurements | | | | | H08 | Discrete salinity measurements | | | | |
| | HP PHYSICAL | | | | | | HC CHEMICAL | | | | |
| H09 | Classical oceanographic stations | | | | | H21 | Oxygen | | | | |
| H10 | Vertical profiles (STD/CTD) • | 2 | a | E | | H22 | Phosphates | | | | |
| H11 | sub-surface measurements underway | | | | | H23 | Total - P | | | | |
| H12 | Mechanical bathythermograph (no. of drops) | | | | | H24 | Nitrates | | | | |
| H13 | Bathythermograph-expendable (no. of drops) | | | | | H25 | Nitrites | | | | |
| H14 | Sound velocity stations | | | | | H26 | Silicates | | | | |
| H15 | Acoustic stations | | | | | H27 | Alkalinity | | | | |
| H16 | Transparency | | | | | H28 | pH | | | | |
| H17 | Optics | | | | | H29 | Chlorinity | | | | |
| H18 | Diffusion (Dynamic) | | | | | H30 | Trace elements | | | | |
| H80 | Other measurements | | | | | H31 | Radioactivity | | | | |
| | | | | | | H32 | Isotopes | | | | |
| | | | | | | H33 | Dissolved gases • | Cont. | b c | B C | |
| | | | | | | H90 | Other measurements | | | | |

*Remarks*

# P - POLLUTION

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| P01 | Suspended solids | | | | | P07 | Waste water : BOD | | | | |
| P02 | Heavy metals | | | | | P08 | Waste water : Nitrates | | | | |
| P03 | Petroleum residues | | | | | P09 | Waste water : Microbiology | | | | |
| P04 | Chlorinated hydrocarbons | | | | | P10 | Waste water : Other | | | | |
| P05 | Other dissolved substances | | | | | P11 | Discoloured water | | | | |
| P06 | Thermal pollution | | | | | P12 | Bottom deposits | | | | |
| P90 | Other measurements | | | | | P13 | Contaminated organisms | | | | |

*Remarks*

# G - GEOLOGY GEOPHYSICS

| | GL MEASUREMENTS MADE AT A SPECIFIC LOCATION | Number | i | l | Format | | | Number | i | l | Format |
|---|---|---|---|---|---|---|---|---|---|---|---|
| G01 | Dredge | | | | | G09 | Sea floor temperature ($\leqslant$ 1 m from bottom) | | | | |
| G02 | Grab | | | | | G10 | Acoustical properties of the sea floor | | | | |
| | Core-rock (no. of cores) | | | | | G11 | Engineering properties of the sea floor | | | | |
| G04 | Core-soft bottom (no. of cores) | | | | | G12 | Magnetic properties of the sea floor | | | | |
| G05 | Sampling by divers | | | | | G13 | Gravimetric properties of the sea floor | | | | |
| G06 | Sampling by submersible | | | | | G14 | Radioactivity measurements | | | | |
| G07 | Drilling | | | | | G70 | Other measurements | | | | |
| G08 | Bottom photography | | | | | | | | | | |
| | **GU MEASUREMENTS UNDERWAY** | | | | | | **GE TYPES OF STUDIES** | | | | |
| G21 | Motion picture of sea floor (no. of nautical miles) | | | | | G31 | Physical analysis of sediments | | | | |
| G22 | Bathymetry-wide beam (no. of nautical miles) | | | | | G32 | Chemical analysis of sediments | | | | |
| G23 | Bathymetry-narrow beam (no. of nautical miles) | | | | | G33 | Paleothermy | | | | |
| G24 | Side scan sonar (no. of nautical miles) | | | | | G34 | Paleomagnetism and rock magnetism | | | | |
| G25 | Seismic reflection (no. of nautical miles) | | | | | G35 | Paleontology | | | | |
| G26 | Seismic refraction (no. of nautical miles) | | | | | G36 | Geothermy | | | | |
| G27 | Gravimetry | | | | | G37 | Geochronology | | | | |
| G28 | Magnetism | | | | | G38 | Mineral & fossil resources | | | | |
| G80 | Other measurements | | | | | G39 | Littoral zone studies | | | | |
| | | | | | | G90 | Other | | | | |

*Remarks*

# D - DYNAMICS

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| D01 | Current meters (no. of stat.) | 3 | 9 | 4 | | D07 | Drift cards (no. released) | | | | |
| D02 | Current meters (average duration of measurement) | ca. 9 Mon. | 9 | 4 | | D08 | Bottom drifters (no. released) | | | | |
| D03 | Currents measured from ship drift | | | | | D09 | Tidal observations (duration) | | | | |
| D04 | GEK | | | | | D10 | Sea and swell (no. of observations) | | | | |
| | Drifters (number) | | | | | D90 | Other | | | | |
| D06 | Swallow floats (number) | | | | | | | | | | |

# B - BIOLOGY

| | Number | i | I | Format | | Number | i | I | Format |
|---|---|---|---|---|---|---|---|---|---|
| B01 Primary productivity | | | | | B20 Commercial benthic molluscs | | | | |
| B02 Phytoplankton pigments | | | | | B21 Commercial benthic crustacean | | | | |
| B03 Seston | | | | | B22 Attached plants and algae | | | | |
| B04 Particulate organic carbon | | | | | B23 Intertidal organisms | | | | |
| B05 Particulate organic nitrogen | | | | | B24 Borers and foulers | | | | |
| B06 Dissolved organic matter | | | | | B25 Birds | | | | |
| B07 Bacterial and pelagic micro-organisms | | | | | B26 Mammals and reptiles | | | | |
| B08 Phytoplankton | | | | | B27 Deep scattering layers | | | | |
| B09 Zooplankton | | | | | B28 Acoustical reflections on marine organisms | | | | |
| B10 Neuston | | | | | B29 Biologic sounds | | | | |
| B11 Nekton | | | | | B30 Bioluminescence | | | | |
| B12 Invertebrate nekton | | | | | B31 Vitamin concentrations | | | | |
| B13 Pelagic eggs and larvae | | | | | B32 Aminoacid concentration | | | | |
| B14 Pelagic fish | | | | | B33 Hydrocarbon concentrations | | | | |
| B15 Amphibians | | | | | B34 Lipid concentrations | | | | |
| B16 Benthic bacteria and micro-organisms | | | | | B35 ATP-ADP-AMP concentrations | | | | |
| B17 Phytobenthos | | | | | B36 DNA-RNA concentrations | | | | |
| B18 Zoobenthos | | | | | B37 Taggings | | | | |
| B19 Commercial demersal fish | | | | | B80 Other measurements | | | | |

*Remarks*

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **B5 TYPES OF STUDIES** | | | | | B60 Physiology | | | | |
| B51 Identification | | | | | B61 Behaviour | | | | |
| B52 Spatial and temporal distribution | | | | | B62 Pathology, parasitology | | | | |
| B53 Monitoring and surveillance | | | | | B63 Toxicology | | | | |
| B54 Biomass determination | | | | | B64 Gear research | | | | |
| B55 Description of communities | | | | | B65 Exploratory fishing | | | | |
| B56 Food chains energy transfers | | | | | B66 Commercial fishing | | | | |
| B57 Population and environments | | | | | B67 Aquaculture | | | | |
| B58 Population structures | | | | | B90 Other measurements | | | | |
| B59 Taxonomy, systematics, classification | | | | | | | | | |

*Remarks*

ROSCOP (2nd edition)

# OCEANOGRAPHY

## GENERAL CRUISE INVENTORY

A00
DATA CENTRE: _____
REFERENCE No : 83047 DB

## A - GENERAL INFORMATION ON WORK PERFORMED

A01 Expedition/Project: Antarktis 80/81
Cruise No. or name: 56 T.2

A91 Declared national prog. ? YES [X] NO [ ] PART [ ]
Exchange restricted ? YES [ ] NO [X] PART [ ]

A02 Ship or platform: "METEOR" DBBH
Platform type: 01

A92 Co-operative programme ? YES [X] NO [ ]
Co-ordinated internationally? [X] [ ]
Name: BIOMASS +)
By whom? Prof.Hempel AWI Bremerhaven

A03 Country: F.R. Germany

A04 Organization: IfM Uni Kiel

A05 Chief scientist(s): Prof. Dr. B. Zeitzschel

A06 NAMES AND ADDRESSES OF ORGANIZATIONS AND PERSONS

| Whom to query | | Final disposition of data | |
|---|---|---|---|
| a | Prof. Dr. B. Zeitzschel, IfM Kiel | A | IfM Kiel |
| | Dr. W. Zenk, IfM Kiel | B | IfM Kiel |
| c | Prof. W. Kroebel, IAP Kiel | C | IAP Kiel |
| d | Dr. U. Petersohn, IAP Kiel | D | IAP Kiel |
| e | Dr. H. Haardt, SFB95 Kiel | E | SFB95 Kiel |
| | | F | DOD, Hamburg |

A07 Date: from: 12 11 80 (DAY MONTH YEAR)
to: 19 12 80

A08 General ocean areas: 32b

A09 Type(s) of marine zone(s): 04, 06, 07

A10 Geographic area — Latitude ° ' " N/S — Longitude ° ' " E/W

*If all data were collected at a fixed station, fill in the co-ordinates*

| Discipline and type of measurements | Index 10 x 10 Qc | L | G | G | Index 1° x 1° | Discipline and type of measurements | Index 10 x 10 Qc | L | G | G | Index 1° x 1° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| M,HS,HP,HC,B,D | 5 | 6 | 0 | 5 | | | | | | | |
| HS,HP,HC,B,D | 5 | 6 | 0 | 6 | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

## M - METEOROLOGY

| | Number | i | I | Format | | Number | i | I | Format |
|---|---|---|---|---|---|---|---|---|---|
| M01 Upper air observations | | | | | M04 Ice observations • | 30 | b | B | 1 |
| Incident radiation • | 30 | e | E | 3 | M05 Occasional standard measurements | | | | |
| M03 Air-sea interface studies | | | | | M06 Systematic standard measurements | | | | |
| | | | | | M90 Other measurements | | | | |

*Remarks* +) Biological Investigations of Marine Antarctic Systems and Stocks

# H - HYDROGRAPHY

| | HS SURFACE | Number | i | I | Format | | NEAR SEA FLOOR (⩽ 10 m) | Number | i | I | Format |
|---|---|---|---|---|---|---|---|---|---|---|---|
| H01 | Continuous temperature recording • | 30 | b | F | 3 | H05 | Continuous temperature recording | | | | |
| H02 | Continuous salinity recording• | 30 | b | F | 3 | H06 | Continuous salinity recording | | | | |
| H03 | Discrete temperature measurements | | | | | H07 | Discrete temperature measurements | | | | |
| H04 | Discrete salinity measurements | | | | | H08 | Discrete salinity measurements | | | | |
| | **HP PHYSICAL** | | | | | | **HC CHEMICAL** | | | | |
| H09 | Classical oceanographic stations | | | | | H21 | Oxygen • | 100 | a | F | 1 |
| H10 | Vertical profiles (STD/CTD) • | 79 | c | F | 7 | H22 | Phosphates • | 200 | a | F | 1 |
| H11 | sub-surface measurements underway | | | | | H23 | Total - P | | | | |
| H12 | Mechanical bathythermograph (no. of drops) | | | | | H24 | Nitrates • | 200 | a | F | 1 |
| H13 | Bathythermograph-expendable (no. of drops) | | | | | H25 | Nitrites • | 200 | a | F | 1 |
| H14 | Sound velocity stations | | | | | H26 | Silicates • | 200 | a | F | 1 |
| H15 | Acoustic stations | | | | | H27 | Alkalinity • | 200 | a | F | 1 |
| H16 | Transparency • | 212 | e | E | 7 | H28 | pH • | 200 | a | F | 1 |
| H17 | Optics • | 212 | e | E | 7 | H29 | Chlorinity | | | | |
| H18 | Diffusion (Dynamic) | | | | | H30 | Trace elements | | | | |
| H80 | Other measurements | | | | | H31 | Radioactivity | | | | |
| | | | | | | H32 | Isotopes | | | | |
| | | | | | | H33 | Dissolved gases | | | | |
| | | | | | | H90 | Other measurements | | | | |

*Remarks*

# P - POLLUTION

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| P01 | Suspended solids | | | | | P07 | Waste water : BOD | | | | |
| P02 | Heavy metals | | | | | P08 | Waste water : Nitrates | | | | |
| P03 | Petroleum residues | | | | | P09 | Waste water : Microbiology | | | | |
| P04 | Chlorinated hydrocarbons | | | | | P10 | Waste water : Other | | | | |
| P05 | Other dissolved substances | | | | | P11 | Discoloured water | | | | |
| P06 | Thermal pollution | | | | | P12 | Bottom deposits | | | | |
| P90 | Other measurements | | | | | P13 | Contaminated organisms | | | | |

*Remarks*

# G - GEOLOGY GEOPHYSICS

| | GL MEASUREMENTS MADE AT A SPECIFIC LOCATION | Number | i | l | Format | | | Number | i | l | Format |
|---|---|---|---|---|---|---|---|---|---|---|---|
| G01 | Dredge | | | | | G09 | Sea floor temperature ($\leqslant$ 1 m from bottom) | | | | |
| G02 | Grab | | | | | G10 | Acoustical properties of the sea floor | | | | |
| | Core-rock (no. of cores) | | | | | G11 | Engineering properties of the sea floor | | | | |
| G04 | Core-soft bottom (no. of cores) | | | | | G12 | Magnetic properties of the sea floor | | | | |
| G05 | Sampling by divers | | | | | G13 | Gravimetric properties of the sea floor | | | | |
| G06 | Sampling by submersible | | | | | G14 | Radioactivity measurements | | | | |
| G07 | Drilling | | | | | G70 | Other measurements | | | | |
| G08 | Bottom photography | | | | | | | | | | |
| | **GU MEASUREMENTS UNDERWAY** | | | | | | **GE TYPES OF STUDIES** | | | | |
| G21 | Motion picture of sea floor (no. of nautical miles) | | | | | G31 | Physical analysis of sediments | | | | |
| G22 | Bathymetry-wide beam (no. of nautical miles) | | | | | G32 | Chemical analysis of sediments | | | | |
| G23 | Bathymetry-narrow beam (no. of nautical miles) | | | | | G33 | Paleothermy | | | | |
| G24 | Side scan sonar (no. of nautical miles) | | | | | G34 | Paleomagnetism and rock magnetism | | | | |
| G25 | Seismic reflection (no. of nautical miles) | | | | | G35 | Paleontology | | | | |
| G26 | Seismic refraction (no. of nautical miles) | | | | | G36 | Geothermy | | | | |
| G27 | Gravimetry | | | | | G37 | Geochronology | | | | |
| G28 | Magnetism | | | | | G38 | Mineral & fossil resources | | | | |
| G80 | Other measurements | | | | | G39 | Littoral zone studies | | | | |
| | | | | | | G90 | Other | | | | |

*Remarks*

# D - DYNAMICS

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| D01 | Current meters (no. of stat.) | 6 | b | b | 6 | D07 | Drift cards (no. released) | | | | |
| D02 | Current meters (average duration of measurement) | | | | | D08 | Bottom drifters (no. released) | | | | |
| D03 | Currents measured from ship drift | | | | | D09 | Tidal observations (duration) | | | | |
| D04 | GEK | | | | | D10 | Sea and swell (no. of observations) | | | | |
| | Drifters (number) | 11 | d | D | 6 | D90 | Other | | | | |
| D06 | Swallow floats (number) | | | | | | | | | | |

# B - BIOLOGY

| | | Number | i | l | Format | | | Number | i | l | Format |
|---|---|---|---|---|---|---|---|---|---|---|---|
| B01 | Primary productivity | 36 | a | A | 1 | B20 | Commercial benthic molluscs | | | | |
| B02 | Phytoplankton pigments | 180 | a | A | 1 | B21 | Commercial benthic crustacean | | | | |
| B03 | Seston | 180 | a | A | 1 | B22 | Attached plants and algae | | | | |
| B04 | Particulate organic carbon | 180 | a | A | 1 | B23 | Intertidal organisms | | | | |
| B05 | Particulate organic nitrogen | | | | | B24 | Borers and foulers | | | | |
| B06 | Dissolved organic matter | 180 | a | A | 1 | B25 | Birds | | | | |
| B07 | Bacterial and pelagic micro-organisms | 80 | a | A | 1 | B26 | Mammals and reptiles | | | | |
| B08 | Phytoplankton | 61 | a | A | 9 | B27 | Deep scattering layers | | | | |
| B09 | Zooplankton | 90 | a | A | 9 | B28 | Acoustical reflections on marine organisms | | | | |
| B10 | Neuston | | | | | B29 | Biologic sounds | | | | |
| B11 | Nekton | | | | | B30 | Bioluminescence | | | | |
| B12 | Invertebrate nekton | | | | | B31 | Vitamin concentrations | | | | |
| B13 | Pelagic eggs and larvae | 24 | a | A | 9 | B32 | Aminoacid concentration | 100 | a | A | 1 |
| B14 | Pelagic fish | | | | | B33 | Hydrocarbon concentrations | 100 | a | A | 1 |
| B15 | Amphibians | | | | | B34 | Lipid concentrations | | | | |
| B16 | Benthic bacteria and micro-organisms | | | | | B35 | ATP-ADP-AMP concentrations | | | | |
| B17 | Phytobenthos | | | | | B36 | DNA-RNA concentrations | | | | |
| B18 | Zoobenthos | | | | | B37 | Taggings | | | | |
| B19 | Commercial demersal fish | | | | | B80 | Other measurements | | | | |

*Remarks*

| | BS TYPES OF STUDIES | | | | | B60 | Physiology | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| B51 | Identification | 180 | a | A | 1 | B61 | Behaviour | | | | |
| B52 | Spatial and temporal distribution | | | | | B62 | Pathology, parasitology | | | | |
| B53 | Monitoring and surveillance | | | | | B63 | Toxicology | | | | |
| B54 | Biomass determination | | | | | B64 | Gear research | | | | |
| B55 | Description of communities | 180 | a | A | 1 | B65 | Exploratory fishing | | | | |
| B56 | Food chains energy transfers | 180 | a | A | 1 | B66 | Commercial fishing | | | | |
| B57 | Population and environments | | | | | B67 | Aquaculture | | | | |
| B58 | Population structures | | | | | B90 | Other measurements | | | | |
| B59 | Taxonomy, systematics, classification | | | | | | | | | | |

*Remarks*

ROSCOP (2nd edition)

# OCEANOGRAPHY
## GENERAL CRUISE INVENTORY

A00
DATA CENTRE: _____
REFERENCE No : 83123 28

## A - GENERAL INFORMATION ON WORK PERFORMED

A01 Expedition/Project: Antarktis 80/81
Cruise No. or name: 56 T.3

A91 Declared national prog. ? YES [X] NO [ ] PART [ ]
Exchange restricted ? YES [ ] NO [X] PART [ ]

A02 Ship or platform: "METEOR" DBBH
Platform type: 01

A92 Co-operative programme ? YES [X] NO [ ] Name: BIOMASS +)
Co-ordinated internationally? YES [X] NO [ ] By whom? Prof.Hempel AWI Bremerhaven

A03 Country: F.R. Germany
A04 Organization: IfM, Kiel
A05 Chief scientist(s): Prof. Dr. S. Gerlach

A06 NAMES AND ADDRESSES OF ORGANIZATIONS AND PERSONS

| | Whom to query | Final disposition of data |
|---|---|---|
| a | Prof. Dr, S. Gerlach, IfM Kiel | A IfM Kiel |
| b | Dr. G. Wefer, GPI Kiel | B GPI Kiel |
| c | Dr. W. Balzer, IfM Kiel | C IfM Kiel |
| d | Dr.L. Meyer-Reil, IfM Kiel | D IfM Kiel |
| e | Dr. R. Wittstock, IAP Kiel | E IAP Kiel |
| | | F DOD, Hamb. |

A07 Date : from: 03 01 81 (DAY MONTH YEAR)
to: 02 02 81

A08 General ocean areas: 32b
A09 Type(s) of marine zone(s): 06, 07

A10 Geographic area Latitude ° ' " N/S Longitude ° ' " E/W

*If all data were collected at a fixed station, fill in the co-ordinates*

| Discipline and type of measurements | Index 10 x 10 Qc | L | G | G | Index 1° x 1° | Discipline and type of measurements | Index 10 x 10 Qc | L | G | G | Index 1° x 1° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| M,HS,HP,HC,B,G | 5 | 5 | 0 | 4 | | | | | | | |
| - " - | 5 | 6 | 0 | 5 | | | | | | | |
| D | 5 | 6 | 0 | 5 | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

## M - METEOROLOGY

| | Number | i | l | Format | | Number | i | l | Format |
|---|---|---|---|---|---|---|---|---|---|
| M01 Upper air observations | | | | | M04 Ice observations • | 30 | e | E | 0 |
| M02 Incident radiation | | | | | M05 Occasional standard measurements • | 30 | e | E | 0 |
| M03 Air-sea interface studies | | | | | M06 Systematic standard measurements | | | | |
| | | | | | M90 Other measurements | | | | |

*Remarks* +) Biological Investigations of Marine Antarctic Systems and Stocks

# H - HYDROGRAPHY

| | HS SURFACE | Number | i | I | Format |
|---|---|---|---|---|---|
| H01 | Continuous temperature recording • | 5 | e | F | 1 |
| H02 | Continuous salinity recording | | | | |
| H03 | Discrete temperature measurements | • 7 | e | F | 1 |
| H04 | Discrete salinity measurements | 7 | e | F | 1 |
| | **HP PHYSICAL** | | | | |
| H09 | Classical oceanographic stations | | | | |
| H10 | Vertical profiles (STD/CTD) | | | | |
| H11 | sub-surface measurements underway | | | | |
| H12 | Mechanical bathythermograph (no. of drops) • | 30 | e | F | 0 |
| H13 | Bathythermograph-expendable (no. of drops) | | | | |
| H14 | Sound velocity stations | | | | |
| H15 | Acoustic stations | | | | |
| H16 | Transparency | | | | |
| H17 | Optics | | | | |
| H18 | Diffusion (Dynamic) | | | | |
| H80 | Other measurements | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| | NEAR SEA FLOOR (⩽ 10 m) | Number | i | I | Format |
|---|---|---|---|---|---|
| H05 | Continuous temperature recording | | | | |
| H06 | Continuous salinity recording | | | | |
| H07 | Discrete temperature measurements | | | | |
| H08 | Discrete salinity measurements | | | | |
| | **HC CHEMICAL** incl.pore water | | | | |
| H21 | Oxygen • | 5 | c | F | 1 |
| H22 | Phosphates • | 15 | c | F | 1 |
| H23 | Total - P | | | | |
| H24 | Nitrates • | 20 | c | F | 1 |
| H25 | Nitrites | | | | |
| H26 | Silicates • | 20 | c | F | 1 |
| H27 | Alkalinity • | 20 | c | F | 1 |
| H28 | pH • | 20 | c | F | 1 |
| H29 | Chlorinity • | 20 | c | F | 1 |
| H30 | Trace elements | | | | |
| H31 | Radioactivity | | | | |
| H32 | Isotopes | | | | |
| H33 | Dissolved gases | | | | |
| H90 | Other measurements | | | | |

*Remarks*

# P - POLLUTION

| | | | | | |
|---|---|---|---|---|---|
| P01 | Suspended solids | | | | |
| P02 | Heavy metals | | | | |
| P03 | Petroleum residues | | | | |
| P04 | Chlorinated hydrocarbons | | | | |
| P05 | Other dissolved substances | | | | |
| P06 | Thermal pollution | | | | |
| P90 | Other measurements | | | | |

| | | | | | |
|---|---|---|---|---|---|
| P07 | Waste water : BOD | | | | |
| P08 | Waste water : Nitrates | | | | |
| P09 | Waste water : Microbiology | | | | |
| P10 | Waste water : Other | | | | |
| P11 | Discoloured water | | | | |
| P12 | Bottom deposits | | | | |
| P13 | Contaminated organisms | | | | |

*Remarks*

# G - GEOLOGY GEOPHYSICS

| GL MEASUREMENTS MADE AT A SPECIFIC LOCATION | Number | i | I | Format | | Number | i | I | Format |
|---|---|---|---|---|---|---|---|---|---|
| G01 Dredge | 9 | b | B | 0 | G09 Sea floor temperature (⩽ 1 m from bottom) | | | | |
| G02 Grab Box Core | 45 | b | B | 0 | G10 Acoustical properties of the sea floor | | | | |
| G03 Core-rock (no. of cores) | | | | | G11 Engineering properties of the sea floor | | | | |
| G04 Core-soft bottom (no. of cores) | 17 | b | B | 0 | G12 Magnetic properties of the sea floor | | | | |
| G05 Sampling by divers | | | | | G13 Gravimetric properties of the sea floor | | | | |
| G06 Sampling by submersible | | | | | G14 Radioactivity measurements | | | | |
| G07 Drilling | | | | | G70 Other measurements | | | | |
| G08 Bottom photography | 3 | c | C | 0 | | | | | |
| **GU MEASUREMENTS UNDERWAY** | | | | | **GE TYPES OF STUDIES** | | | | |
| G21 Motion picture of sea floor (no. of nautical miles) | | | | | G31 Physical analysis of sediments | 17 | b | B | 0 |
| G22 Bathymetry-wide beam (no. of nautical miles) | | | | | G32 Chemical analysis of sediments | 62 | c | C | 0 |
| G23 Bathymetry-narrow beam (no. of nautical miles) | | | | | G33 Paleothermy | | | | |
| G24 Side scan sonar (no. of nautical miles) | | | | | G34 Paleomagnetism and rock magnetism | | | | |
| G25 Seismic reflection (no. of nautical miles) | | | | | G35 Paleontology | 62 | b | B | 1 |
| G26 Seismic refraction (no. of nautical miles) | | | | | G36 Geothermy | | | | |
| G27 Gravimetry | | | | | G37 Geochronology | | | | |
| G28 Magnetism | | | | | G38 Mineral & fossil resources | | | | |
| G80 Other measurements | | | | | G39 Littoral zone studies | | | | |
| | | | | | G90 Other | | | | |

*Remarks*

# D - DYNAMICS

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| D01 Current meters (no. of stat.) | 1 | e | E | 1 | D07 Drift cards (no. released) | | | | |
| D02 Current meters (average duration of measurement) | 31 days | e | E | | D08 Bottom drifters (no. released) | | | | |
| D03 Currents measured from ship drift | | | | | D09 Tidal observations (duration) | | | | |
| D04 GEK | | | | | D10 Sea and swell (no. of observations) | | | | |
| D05 Drifters (number) | | | | | D90 Other | | | | |
| D06 Swallow floats (number) | | | | | | | | | |

# B - BIOLOGY

| | Number | i | I | Format | | Number | i | I | Format |
|---|---|---|---|---|---|---|---|---|---|
| B01 Primary productivity | | | | | B20 Commercial benthic molluscs | | | | |
| B02 Phytoplankton pigments • | 10 | d | D | O | B21 Commercial benthic crustacean | | | | |
| B03 Seston • | 1 | b | B | O | B22 Attached plants and algae | | | | |
| B04 Particulate organic carbon • | 20 | b | B | O | B23 Intertidal organisms | | | | |
| B05 Particulate organic nitrogen • | 20 | b | B | O | B24 Borers and foulers | | | | |
| B06 Dissolved organic matter • | 20 | b | B | O | B25 Birds • | 7 | a | A | O |
| B07 Bacterial and pelagic micro-organisms | | | | | B26 Mammals and reptiles | | | | |
| B08 Phytoplankton | | | | | B27 Deep scattering layers | | | | |
| B09 Zooplankton • | 26 | a | A | O | B28 Acoustical reflections on marine organisms | | | | |
| B10 Neuston | | | | | B29 Biologic sounds | | | | |
| B11 Nekton • | 30 | a | A | O | B30 Bioluminescence | | | | |
| B12 Invertebrate nekton | | | | | B31 Vitamin concentrations | | | | |
| B13 Pelagic eggs and larvae | | | | | B32 Aminoacid concentration • | 30 | c | C | O |
| B14 Pelagic fish | | | | | B33 Hydrocarbon concentrations | | | | |
| B15 Amphibians | | | | | B34 Lipid concentrations | | | | |
| B16 Benthic bacteria and micro-organisms • | 17 | d | D | O | B35 ATP-ADP-AMP concentrations • | 17 | d | D | O |
| B17 Phytobenthos | | | | | B36 DNA-RNA concentrations | | | | |
| B18 Zoobenthos • | 9 | a | A | O | B37 Taggings | | | | |
| B19 Commercial demersal fish | | | | | B80 Other measurements | | | | |

*Remarks*

| B5 TYPES OF STUDIES | | | | | B60 Physiology • | 17 | d | D | O |
|---|---|---|---|---|---|---|---|---|---|
| B51 Identification • | 9 | a | A | O | B61 Behaviour | | | | |
| B52 Spatial and temporal distribution | | | | | B62 Pathology, parasitology | | | | |
| B53 Monitoring and surveillance | | | | | B63 Toxicology | | | | |
| B54 Biomass determination • | 17 | d | D | O | B64 Gear research | | | | |
| B55 Description of communities | | | | | B65 Exploratory fishing • | 30 | a | A | O |
| B56 Food chains energy transfers • | 14 | d | D | O | B66 Commercial fishing | | | | |
| B57 Population and environments | | | | | B67 Aquaculture | | | | |
| B58 Population structures | | | | | B90 Other measurements | | | | |
| B59 Taxonomy, systematics, classification • | 17 | a | A | O | | | | | |

*Remarks*

```
Password:
 accNo   fleA refNo  proj inst ship    startDate  cruise   catId
 ------- ---- ------ ---- ---- ------- ---------- -------- ----------
 8600204 C022 069139 9999 0612 06MT    1981/02/07 TT6279       164650
 8600204 C022 069140 9999 0612 06MT    1980/11/19 TT6278       164651
 8600204 F022 TT6278 9999 0612 06MT    1980/11/19 56           164652
 8600204 F022 TT6279 9999 0612 06MT    1981/02/07 56           164653

(4 rows affected)
```

```
Password:
 accNo   fleA refNo  ship staCnt recCnt startDate  endDate
 ------- ---- ------ ---- ------ ------ ---------- ----------
 8600204 C022 069139 06MT 85     148    81/02/07   81/03/07
 8600204 C022 069140 06MT 58     85     80/11/19   80/12/15
 8600204 F022 TT6278 06MT 58     7185   80/11/19   80/12/15
 8600204 F022 TT6279 06MT 85     13239  81/02/07   81/03/07

(4 rows affected)
```