

83NODC156-01

NUMBER

8300038

DATA DOCUMENTATION FORM

TT3084 F022
329366
319458 C022NOAA 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

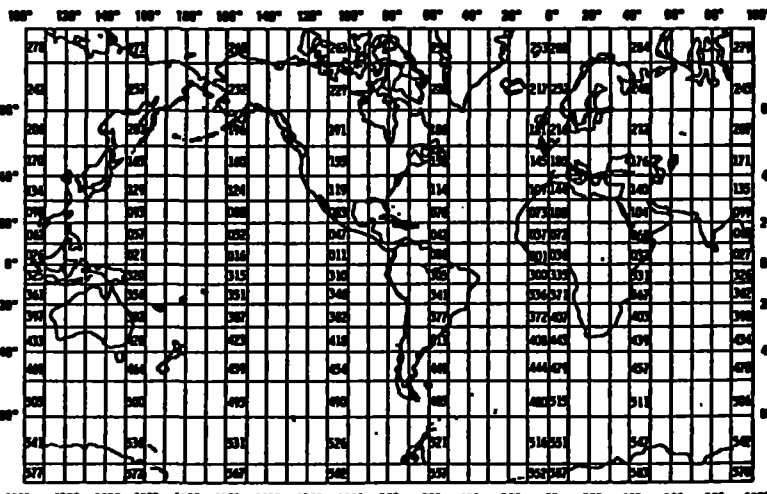
055433-055439 C116

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

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

A. ORIGINATOR IDENTIFICATION

THIS SECTION MUST BE COMPLETED BY DONOR FOR ALL DATA TRANSMITTALS

1. NAME AND ADDRESS OF INSTITUTION, LABORATORY, OR ACTIVITY WITH WHICH SUBMITTED DATA ARE ASSOCIATED			
Dr. Terry Joyce, Woods Hole Oceanographic Institution, Woods Hole, MA			
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT	
Warm Core Rings		R/V Endeavor Cruise 74	
4. PLATFORM NAME(S)	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)	6. PLATFORM AND OPERATOR NATIONALITY(IES)	7. DATES
R/V ENDEAVOR	SHIP	PLATFORM	OPERATOR
		ENDEAVOR	USA/URI
		FROM: MO/DAY/YR	TO: MO/DAY/YR
		Sept 14	Oct 1, 81
8. ARE DATA PROPRIETARY? <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR _____ MONTH _____		11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED. GENERAL AREA	
9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)? (I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNA- TIONAL EXCHANGE?) <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> PART (SPECIFY BELOW)			
10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELE- PHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1) Mr. Terry Joyce Mrs. Jane Dunworth 617 548 1400 DNDC * 83NODC156-01			

B. SCIENTIFIC CONTENT

NAME OF DATA FIELD	REPORTING UNITS OR CODE	METHODS OF OBSERVATION AND INSTRUMENTS USED (SPECIFY TYPE AND MODEL)	ANALYTICAL METHODS (INCLUDING MODIFICATIONS) AND LABORATORY PROCEDURES	DATA PROCESSING TECHNIQUES WITH FILTERING AND AVERAGING
Pressure Temperature Salinity O ₂	Decabars deg. C Parts/thousand Mil/lit.	Neil Brown CTD " " " " " " " " "		<p>Ref: WHOI/Brown CTD microprofiler: methods of calibration and data handling. By N.P. Fofonof S.P. Hays, and R.C. Millar Jr., Dec. 1974. WHOI Report 74-89</p> <p>Ref: WHOI processed CTD data organization. By Robert C. Millard and Nancy Galbraith. Aug. 198: WHOI Report 82-37</p> <p>Ref: CTD Calibration and Data Processing Techniques at WHOI Using the 1978 Practical Salinity Scale. by R.C. Millard, Jr. International STD Conferen and Workshop 8-11 Feb. 198:</p>

C. DATA FORMAT

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

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

The first seven (7) records contain the basic sampling information followed by "n" data records (variable length files). The record type is identified by its position/order in the file. The first 7 records are self documenting in that each field has a readable label. See sample file dump in "RECORD FORMAT DESCRIPTION" section.

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

This data set/tape contains the CTD casts from one cruise. The tape is multi-file with each station being a separate file. The first seven records of each file contains the basic sampling information for that station. The remaining records are data records. Each record is 35 char. long.

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

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER 617-548-1400 Ms. Jane Dunworth
ADDRESS Woods Hole Oceanographic Institution, Woods Hole, MA 02543

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

<p>5. RECORDING MODE</p> <p><input type="checkbox"/> BCD <input type="checkbox"/> BINARY</p> <p><input checked="" type="checkbox"/> ASCII <input type="checkbox"/> EBCDIC</p> <p><input type="checkbox"/> _____</p>	<p>9. LENGTH OF INTER-RECORD GAP (IF KNOWN) <input type="checkbox"/> 3/4 INCH</p> <p><input type="checkbox"/> _____</p>
<p>6. NUMBER OF TRACKS (CHANNELS)</p> <p><input type="checkbox"/> SEVEN</p> <p><input checked="" type="checkbox"/> NINE</p> <p><input type="checkbox"/> _____</p>	<p>10. END OF FILE MARK</p> <p><input type="checkbox"/> OCTAL 17</p> <p><input type="checkbox"/> _____</p>
<p>7. PARITY</p> <p><input type="checkbox"/> ODD</p> <p><input type="checkbox"/> EVEN</p>	<p>11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME KEY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)</p> <p>R/V ENDEAVOR CR 74, WARM CORE RINGS, CTD DATA, 9TK, 1600 BPI, REC=35, BLK= 3500, ASCII</p> <p>JANE DUNWORTH</p>
<p>8. DENSITY</p> <p><input type="checkbox"/> 200 BPI <input checked="" type="checkbox"/> 1600 BPI</p> <p><input type="checkbox"/> 556 BPI</p> <p><input type="checkbox"/> 800 BPI</p> <p><input type="checkbox"/> _____</p>	<p>12. PHYSICAL BLOCK LENGTH IN BYTES</p> <p>3500 (35 char. rec. blocked 100)</p> <p>13. LENGTH OF BYTES IN BITS</p> <p>_____</p>

RECORD NAME _____

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
<u>DESCRIPTION 1ST</u>	<u>HEADER RECORD</u>				(All fields right justified)
BLANK	1	1			BLANK
FIELD LABEL	2	5		5H	ALWAYS "SHIP" (= blank)
SHIP CODE	7	2		A2	2 CHAR. SHIP CODE
					AT = ATLANTIS II, KN = KNORR
					OC = OCEANUS, ETC.
FIELD LABEL	9	7		7H	ALWAYS "CRUIS"
CRUISE NUMBER	16	3		I3	CRUISE NO.
FIELD LABEL	19	6		6H	ALWAYS "STAT:"
STATION NUMBER	25	4		I4	STATION NO.
BLANK	29	1			BLANK
FIELD LABEL	30	3		3H	ALWAYS "C#:"
CAST NUMBER	33	3		I3	CAST NO. USED FOR YO-YO STATIONS
	TOTAL =	35			
<u>DESCRIPTION 2ND</u>	<u>HEADER RECORD</u>				(All fields right justified)
BLANK	1	1			BLANK
FIELD LABEL	2	5		H5	ALWAYS "DATE" (= blank)
DATE:YEAR	7	2		I2	YEAR LAST TWO DIGITS
	9	1		H1	ALWAYS "-" FIELD SEPARATER
MONTH	10	2		I2	MONTH (1-12)
	12	1		H1	ALWAYS "-" FIELD SEPARATER
DAY	13	2		I2	DAY (1-31)
BLANK	15	2			BLANK
FIELD LABEL	17	6		H6	ALWAYS "TIME:"
TIME	23	4		I4	TIME GMT 24 HR. CLOCK
TIME LABEL	27	2		H2	ALWAYS "Z" SYMBOL FOR
					GMT OR ZULU TIME
BLANK	29	7			BLANK
	TOTAL =	35			

RECORD NAME

14. FIELD NAME	15. POSITION FROM -1 MEASURED IN (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
<u>DESCRIPTION 3RD</u>	<u>HEADER RECORD</u>				(All fields right justified)
BLANK	1	1			BLANK
FIELD LABEL	2	4		4H	ALWAYS "LATØ" (Ø = blank)
LATITUDE:DEGREES	6	3		I3	DEGREES OF LATITUDE
					NEGATIVE FOR SOUTH
LATITUDE:MINUTES	9	6		F6.2	MINUTES OF LATITUDE TO
					HUNDREDTHS OF A MINUTE
FIELD LABEL	15	4		4H	ALWAYS "ØLGØ"
LONGITUDE:DEGREES	19	4		I4	DEGREES OF LONGITUDE
					NEGATIVE FOR WEST
LONGITUDE:MINUTES	23	6		F6.2	MINUTES OF LONGITUDE TO
					HUNDREDTHS OF A MINUTE
BLANK	29	7			BLANK
	TOTAL =	35			
<u>DESCRIPTION 4TH</u>	<u>HEADER RECORD</u>				(All fields right justified)
BLANK	1	1			BLANK
FIELD LABEL	2	9			ALWAYS "MAX.ØPRES=" (Ø=blank)
MAX. PRESSURE	11	6		F6.0	MAXIMUM PRESSURE REACHED BY
					THE CTD CAST, PRESSURE IN
					DECIBARS
FIELD LABEL	17	11		11H	ALWAYS "ØDBØØDEPTH="
DEPTH TO BOTTOM	28	6		F6.0	WATER DEPTH IN METERS
DEPTH LABEL	34	2		2H	ALWAYS "ØM" M = Meters
	TOTAL =	35			
<u>DESCRIPTION 5TH</u>	<u>HEADER RECORD</u>				(All fields right justified)
BLANK	1	1			BLANK
FIELD LABEL	2	5		5H	ALWAYS "AVERØ" (Ø = blank)
AVERAGING INTERVAL*	7	5		F5.1	ALL DATA REDUCED TO A COMMON
					REPORTING INTERVAL, IN DECIBARS
FIELD LABEL	12	6		6H	ALWAYS "ØINSTØ"
INSTRUMENT NO.	18	4		I4	CTD INSTRUMENT NO.
FIELD LABEL	22	6		6H	ALWAYS "ØRATEØ"
SAMPLING RATE	28	6		F6.2	SAMPLING RATE IN HERTZ
					(SAMPLES/SECOND), TO HUNDREDTHS
UNITS LABEL	34	2			ALWAYS "HZ"
	TOTAL =	35			
* A NEGATIVE VALUE IN THIS FIELD INDICATES AN UP TRACE/PROFILE					

14. FIELD NAME	15. POSITION FROM -1 MEASURED IN (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
<u>DESCRIPTION 6TH HEADER RECORD</u>					
BLANK	1	1			BLANK
FIELD LABEL	2	4		H4	ALWAYS "OBS="
TOTAL DATA CYCLES	6	6		I6	TOTAL NUMBER OF DATA CYCLES THIS STATION
FIELD LABEL	12	4		H4	ALWAYS "FMT" MEANING FORMAT
FORTTRAN FORMAT	16	20		H20	ALWAYS "(F7.1,2F8.4,F6.2,I6)"
	TOTAL =	35			
<u>DESCRIPTION 7TH HEADER RECORD</u>					
IF TAPE IS DUMPED, THIS RECORD PROVIDES COLUMN HEADING ON LISTING, CONTAINS NO STATION INFORMATION (see sample listing next page)					
<u>DESCRIPTION DATA RECORD</u>					
PRESSURE	1	7		F7.1	PRESSURE AS DECIBARS
TEMPERATURE	8	8		F8.4	TEMPERATURE AS DEGREES C
SALINITY	16	8		F8.4	SALINITY AS PARTS/THOUSAND
OXYGEN	24	6		F6.2	OXYGEN AS ML/L
QUALITY WORD	30	6		I6	QUALITY CONTROL CODE SEE FOLLOWING TEXT
Quality word defined: If positive, the quality word contains the number of observations from the time-series data that went into the pressure bin. Negative quality words denote data which has been interpolated. The value of the negative number reflects which variable or variables have been modified, based on the variable location in the CTD-VAX data file: -1 for T, -2 for S, -4 for O2, -3 for T & S, -5 for T & O, -6 for S & O, -7 for T, S & O. A positive quality word can be used to infer time and lowering rate: lowering rate = sample rate * pressure interval/quality # time = start time(hr:min) + sample rate * summed quality (secs)					
NOTE: A field will be asterisk filled if the value in question exceeds the allocated field length. At this stage of processing this should not occur.					

RECORD-FORMAT DESCRIPTION

RECORD NAME _____

14. FIELD NAME	15. POSITION FROM -1 MEASURED IN (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		

SHIP KN CRUIS 66 STAT: 21 C#: 3
DATE 77- 6- 2 TIME: 1200 Z
LAT 36 2.00 LG -37 53.20
MAX. PRS= 4157. DB DEPTH= 5968. M
>AVER 2.0 INST 4 RATE 31.00HZ
OBS= 2076 FMT(F7.1,2F8.4,F6.2,I6)
PRES TEMP SALT OXYG QUAL
7.0 19.2491 36.1420 6.56 583
9.0 19.2472 36.1421 5.27 75
11.0 19.2472 36.1425 5.30 76
13.0 19.2472 36.1426 5.34 131
15.0 19.2477 36.1431 5.28 69
17.0 19.2484 36.1429 5.28 70
19.0 19.2482 36.1420 5.32 119
21.0 19.2466 36.1410 5.29 65
23.0 19.2419 36.1421 5.25 71
25.0 19.2393 36.1458 5.30 97
27.0 19.2378 36.1431 5.30 49
29.0 19.2405 36.1439 5.31 42
31.0 19.2343 36.1461 5.33 111
33.0 19.2074 36.1484 5.32 88
35.0 19.1652 36.1553 5.31 63
37.0 19.1152 36.1576 5.37 135
39.0 18.9882 36.1682 5.38 70
41.0 18.8389 36.1837 5.38 55
43.0 18.5625 36.2002 5.50 167

DATE:

TO:

FROM:

SUBJECT: Error Correction in Processing of Data Set - Accession # 83 000 35

1) File Type: C139

2) Project Ident.: Warm Core R145

3) Track Nos.:

I. Error Corrections as reported to Principal Investigator:

Error

Correction Completed (Check)

II. Additional error corrections:

Error

Correction Completed (Check)

DATA SET FILE - INIT

APPROVAL/TRACE - 8300038

Step	Completion Date/Init.	Tape # or ID#	# of Files	BLKSIZE	LRECL	Stations # RECORDS
ORIGINATOR TAPE #	April 12, 1983 J.B.	TRANSFER	95	3500	35	95
QUAD1/SCAN TAPE #	April 12, 1983 J.B.	W11143	95	3500	35	95
ASSIGNED FOR PROCESS.						
END EVALUATION						
QUALITY REVIEW						
RELIMINARY DATA SORT						
RELIMINARY FILECHK						
INIT USER TAPE #						
WORK DISK FILE						
FINAL USER TAPE #						
FINAL FILECHK						
EDITED DISK FILE						
DATA SET "FINALIZED"						

TAPE OR DISK ASSIGNMENT SHEET
(MRL) 11/6/78
(Rev. 11/80)

ACCESSION/TRACK NO.: 8300038

TYPE OF TAPE	TAPE NUMBER	LABEL	LRCL	BLKSIZE	RECFM	REMARKS	Station # RECORD
ORIGINATOR	DUNSKR	1/1	35	3500	FB		95
DUPLICATE	W11/53	SL HE	35	3500	FB		95
REFORMATTED							
FIRST USER							
FINAL USER							
DISK FILE	DSN					REMARKS	# RECORDS
WORK DISK FILE							
EDITED DISK FILE							

83NODC156-01

TRANSMITTAL AND RECEIPT RECORD

(Please sign and return carbon copy acknowledging receipt)

TO: National Oceanographic Data Center 3300 Whitehaven St., NW Washington, D.C. 20235	REFER TO
	ATTENTION Dr. Tony Picciolo
THE ITEM(S) LISTED BELOW WERE FORWARDED TO YOU BY	
<input checked="" type="checkbox"/> ORDINARY MAIL <input type="checkbox"/> REGISTERED MAIL <input type="checkbox"/> AIR MAIL <input type="checkbox"/> CERTIFIED MAIL <input type="checkbox"/> GOVERNMENT TRUCK <input type="checkbox"/> BY HAND <input type="checkbox"/> OTHER	

The following CTD data set is forwarded to NODC for processing and archival.

R/V ENDEAVOR Cr. 74 Sept 14 - Oct 1, 81

Stations 2-41 with Stations 30 and 31 being tow-yo stations (multi cast per station), station 16 is an up profile. *

These data are forwarded on magnetic tape in the WHOI exchange format authorized by NODC as being acceptable. These data were received from Dr. Terry Joyce and are part of the WARM CORE RINGS PROGRAM.

- a) DDF
- b) WHOI Station inventory
- c) Sample tape dump
- d) NAPIS Record

acc# 8300038

* NOTE: UP profiles are flagged by a minus (-) value
in the AVERAGING INTERVAL FIELD.

FORWARDED BY (Signature) George Heimerdinger	TITLE EDIS Liaison Officer	DATE FORWARDED Mar 10, 1983
RECEIVED BY (Signature) Chris E. Greer	TITLE Oceanographer	DATE RECEIVED Mar 15, 1983

8300038

NAHSEN REF. #

319458

MULDARS TRACK #

TT 3084

MONITOR: CONTACT

Gerald W. Damer

LOCATION OF F022 SOURCE

Archives (TT 3084)

RECORD ALL ERRORS FOUND

CONSEC(S).

54

ERRORS FOUND

*Deleted erroneously! should
have changed time.*

*Muldars corrections
MRC 4/18/84*

Green

T-CD [] N.O.D.C. -- NADIS RECORD

MISSION NO [8300038]

DATE RECEIVED: YR [83] MO [07] DAY [15]

PUB-NO []

Draw
changed from
C139 to F022

T-CD [TA]

N.O.D.C. -- TRACK RECORD

ACCESSION NO [8300038] REFERENCE NO [T73084] DNP (Y/N) [N]

COUNTRY CODE [31] COUNTRY [USA]

INST. CODE [02]

[MA Woods Hole Oceanographic Inst. (Woods Hole)]

FILE-ALIAS [F022] FILE-NAME [STD/CTD]

-CODE [0113] PROJ-NAME [Warm Core Runway]

UN: CODE [09] TYPE [mag Tape]

ATFORMS

TYPE CODE [09] TYPE [ship]

PLAT CODE [32EV] NAME [Endeavor]

CRUISE NO [] CRUISE-START [810914] CRUISE-END [811001]

ACOUNT [] STATIONS-IN [95] STATIONS-OUT []

STATUS REJ [] SU [] SP [830315] GUACI []

DATES: PROCESS [] CIP [] VFUPDT [] RETCOR []

DATA TRACK: RU [] FILE-ID [] LEASE []

Green

T-CD []

N.O.D.C. -- NADIS RECORD

ACCESSION NO 8300038]

DATE RECEIVED: YR [83] MO [03] DAY [15]

PUB-NO []

T-CD [TA]

N.O.D.C. -- TRACK RECORD

ACCESSION NO [8300038] REFERENCE NO [319458] DNP (Y/N) [N]

COUNTRY CODE [3] COUNTRY [USA]

INST. CODE [02]

[MA Woods Hole Oceanographic Inst. (Woods Hole)]

FILE-ALIAS [C022] FILE-NAME [Low Resolution CTD/STD]

PROJ-CODE [0113] PROJ-NAME [Warm Core Runup]

MEASUREMENT CODE [09] TYPE [mag Tape]

PLATFORM:

TYPE CODE [09] TYPE [ship]

PLAT CODE [32EV] NAME [Endeavor]

CRUISE NO TT 3084 CRUISE-START [810914] CRUISE-END [811001]

ACOUNT [] STATIONS-IN [95] STATIONS-OUT []

STATUS REJ [] SU [] SP [830315] QUAD []

DATES: PROCESS [] DIP [] VFUPDT [] RETCOR []

DATA TRACK: RU [] FILE-ID [] LEASE []

Password:

accNo	fleA	refNo	proj	inst	ship	startDate	cruise	catId
8300038	C116	055436	9999	3105	31KQ	1983/01/25	SOCAL OP	320237
8300038	C116	055438	9999	3105	321G	1983/02/05	NORFOLK	320239
8300038	C116	055437	9999	3105	32BB	1982/12/07	READIEX	320238
8300038	C022	329366	0113	3102	32EV	1981/09/14	TT3084	320241
8300038	F022	TT3084	0113	3102	32EV	1981/09/14	NULL	320242
8300038	C116	055439	9999	3105	32F7	1983/01/01	NULL	320240
8300038	C116	055433	0051	31U5	32YA	1983/01/29	8303	320234
8300038	C116	055434	0051	31U5	32YA	1983/02/19	8304	320235
8300038	C116	055435	0051	31U5	32YA	1983/03/04	8305	320236

(9 rows affected)

Password:

accNo	fleA	refNo	ship	staCnt	recCnt	startDate	endDate
-----	-----	-----	-----	-----	-----	-----	-----
8300038	C116	055436	31KQ	8	7	83/01/25	83/01/28
8300038	C116	055438	321G	9	9	83/02/05	83/02/17
8300038	C116	055437	32BB	12	9	82/12/07	83/01/27
8300038	C022	329366	32EV	95	156	81/09/14	81/10/01
8300038	F022	TT3084	32EV	95	18166	81/09/14	81/10/01
8300038	C116	055439	32F7	92	89	83/01/01	83/01/25
8300038	C116	055433	32YA	7	6	83/01/29	83/01/29
8300038	C116	055434	32YA	9	7	83/02/19	83/02/20
8300038	C116	055435	32YA	24	24	83/03/04	83/03/05

(9 rows affected)