

Data Set Catalog #155

ERS-17 MERGED, 4.5 SEC
AVG., .05 SEC

(65-058C-01A, 02A, 03A)

32 tapes

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1. INTRODUCTION:

The documentation for this data set was originally on paper, kept in NSSDC's Data Set Catalogs (DSCs). The paper documentation in the Data Set Catalogs have been made into digital images, and then collected into a single PDF file for each Data Set Catalog. The inventory information in these DSCs is current as of July 1, 2004. This inventory information is now no longer maintained in the DSCs, but is now managed in the inventory part of the NSSDC information system. The information existing in the DSCs is now not needed for locating the data files, but we did not remove that inventory information.

The offline tape datasets have now been migrated from the original magnetic tape to Archival Information Packages (AIP's).

A prior restoration may have been done on data sets, if a requestor of this data set has questions; they should send an inquiry to the request office to see if additional information exists.

2. ERRATA/CHANGE LOG:

NOTE: Changes are made in a text box, and will show up that way when displayed on screen with a PDF reader.

When printing, special settings may be required to make the text box appear on the printed output.

Version	Date	Person	Page	Description of Change
01				
02				

3 LINKS TO RELEVANT INFORMATION IN THE ONLINE NSSDC
INFORMATION SYSTEM:

<http://nssdc.gsfc.nasa.gov/nmc/>

[NOTE: This link will take you to the main page of the NSSDC Master Catalog. There you will be able to perform searches to find additional information]

4. CATALOG MATERIALS:

- a. Associated Documents To find associated documents you will need to know the document ID number and then click here.
<http://nssdcftp.gsfc.nasa.gov/miscellaneous/documents/>

- b. Core Catalog Materials

ERS 17

MERGED, 4.5 SEC. AVG., .05 SEC TAPE

65-058C-01A, 02A, 03A *SPMS-00333*

THIS DATA SET HAS BEEN RESTORED. THERE WERE ORIGINALLY 32 7-TRACK, 800 BPI TAPES, WRITTEN IN BCD. THERE ARE 11 RESTORED TAPES, WRITTEN IN EBCDIC. THE DR TAPES ARE 3480 CARTRIDGES AND THE DS TAPES ARE 9-TRACK, 6250 BPI. THE RESTORED TAPES WERE CREATED ON AN IBM 360 COMPUTER. THE DR AND DS NUMBERS, ALONG WITH THE CORRESPONDING D NUMBERS ARE AS FOLLOWS:

DR#	DS#	D#	FILES	TIME SPAN
DR002985	DS002985	D001669	1	07/20/65 - 07/21/65
		D001670	2	07/21/65 - 07/23/65
		D001671	3	07/23/65 - 07/25/65
DR002986	DS002986	D001673	1	07/27/65 - 07/29/65
		D001674	2	07/29/65 - 07/31/65
		D001675	3	07/31/65 - 08/01/65
DR002993	DS002993	D001672	1	07/25/65 - 07/27/65
		D001676	2	08/01/65 - 08/03/65
		D001680	3	08/09/65 - 08/10/65
DR002987	DS002987	D001677	1	08/03/65 - 08/05/65
		D001678	2	08/05/65 - 08/07/65
		D001679	3	08/07/65 - 08/09/65
DR002988	DS002988	D001681	1	08/10/65 - 08/12/65
		D001682	2	08/12/65 - 08/14/65
		D001683	3	08/14/65 - 08/16/65
DR002989	DS002989	D001685	1	08/18/65 - 08/19/65
		D001686	2	08/19/65 - 08/23/65
		D001687	3	08/25/65 - 08/26/65
DR002994	DS002994	D001684	1	08/16/65 - 08/18/65
		D001688	2	08/26/65 - 09/01/65
		D001692	3	10/03/65 - 10/06/65
DR002990	DS002990	D001689	1	09/03/65 - 09/14/65
		D001690	2	09/15/65 - 09/26/65
		D001691	3	09/28/65 - 10/03/65

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DR#	DS#	D#	FILES	TIME SPAN
DR002991	DS002991	D001693	1	10/06/65 - 10/10/65
		D001694	2	10/10/65 - 10/11/65
		D001695	3	10/13/65 - 10/14/65
DR002992	DS002992	D001697	1	10/20/65 - 10/23/65
		D001698	2	10/23/65 - 10/29/65
		D001699	3	10/29/65 - 10/31/65
DR002995	DS002995	D001696	1	10/14/65 - 10/20/65
		D001700	2	10/31/65 - 11/03/65

ERS-17 MERGED, 4.5 SEC AVG., .05 SEC

DATA TAPES (65-058C-01A, 02A, 03A)

The tapes (32 in all) in these data sets are 800 BPI, 7 track, BCD with one file per tape. A program was written to determine the start and stop times for each tape because there was no ID record at the end of the tapes. Enclosed within the data set catalog one will find:

1. Documentation supporting the tape format.
2. A listing of each 'D' and 'C' numbers assigned to the data set complet with the time spans for the same.
3. Documentation of the program run sheet.
4. A complete listing of the program run.
5. A listing of all the ID records for each tape followed by a dump of at least the first and last five records.

7/1/73.
The 'D' tapes in this data set have been sent to the Federal Records Center for storage. Only the 'C' tapes remain in the Data Center.
PMR.

possible, i.e. on all odd channels on the BCD output tape, then the record will be filled. This is usually not the case, however, and a large portion of most records is filled with dummy data in the form of a word with the high order bit set to one, and all other bits set to zero.

2) BCD MERGE Tape - In this section the BCD magnetic tape output (format 5, Figure 2) of the MERGE program is described. This tape format is used for submittal to the National Space Science Data Center (NSSDC) at Goddard Space Flight Center and contains ID and header information, time, transmitted subcarrier frequency and computed counting rate for each appropriate channel, orbital position and related geomagnetic and ecliptic coordinates. In addition, all the raw sampled data is contained on the tape, so that analysis which requires more resolution than the simple averaging over each 4.5 second channel as used for the RATES program and described in Volume 1 can be accomplished.

The data is contained on 33 seven-track 800 bpi IBM compatible packed BCD tapes which are available through the NSSDC. These tapes contain data during the time intervals listed in Table 5.

The BCD output tape produced by the MERGE computer program has 8 logical records per physical record, each logical record being 120 characters long. The last character of each logical record is an octal 32 which was necessary for listing purposes at the UCSD Computer Center. Thus, each logical record takes up one line when listed as shown in a typical listing, Figure 6.

The first character of each logical record is used for carriage control; the second is an indicator of the type of data contained within the record and has the following meaning:

Table 5 BCD MERGE Output

UCSD Tape No.	Time Interval - 1965				
P3120	7/20	0849	-	7/21	2102**
P3121	7/21	2253	-	7/23	1935
P3122	7/23	1701	-	7/25	1539
P3123	7/25	1520	-	7/27	0919
P3124	7/27	1357	-	7/29	0647
P3125	7/29	0647	-	7/31	0211
P3126	7/31	0211	-	8/01	2000
P3127	8/01	2000	-	8/03	1643
P3128	8/03	1643	-	8/05	1050
P3129	8/05	1141	-	8/07	0644
P3130	8/07	0726	-	8/09	0412
P3131	8/09	0444	-	8/10	1919
P3132	8/10	2007	-	8/12	1609
P3133	8/12	1619	-	8/14	1300
P3134	8/14	1300	-	8/16	0815
P3135	8/16	0815	-	8/18	0223
P3136	8/18	0223	-	8/19	2050
P3137	8/19	2050	-	8/23	1333
P3138	8/25	0613	-	8/26	2157
P3139	8/26	2157	-	9/01	1728
P3140	9/03	1038	-	9/14	0505
P3141	9/15	2133	-	9/26	2120
P3142	9/28	1218	-	10/03	0925
P3143	10/03	0934	-	10/06	0550
P3144	10/06	0550	-	10/10	0333
P3145	10/10	0333	-	10/11	0106
P3146	10/13	0130	-	10/14	1803
P3147	10/14	1803	-	10/20	0537
P3148	10/20	0651	-	10/23	1614
P3149	10/23	1615	-	10/29	0546
**	10/29	0644	-	10/31	0751
P3151	10/31	0751	-	11/03	2332
P3152					

*Tape P3150 is not part of the MERGE sequence.

**Nonuniform time intervals result from nonuniform data coverage.

- 0 = ID header information
- 1 = Rate information
- 2 = Rate and coordinate data
- 3 = Channel samples
- 4 = Information title

These are explained in detail below.

The carriage control character is always 1 (for new page) when the data indicator is 0 and is a blank character in all other cases. Blank filled logical records occur when the ID number changes, thus each new ID starts in the beginning of a physical record.

Data Indicator = 0 - When the data type indicator is 0, the following logical record appears:

ID, STATION, RECORDING DATE, PLAYBACK DATE, ANALOG TAPE NUMBER,

where

ID = Arbitrary identifier assigned to this part of the data prior to playback. The last two digits indicate the relative position of the data within the orbit and the first three digits roughly denote the orbit number. These numbers correspond to the control card listing shown in Volume 1 of this series. STATION = A two-character alphabetic identifier that stands for the recording station where the analog data originated. Data was received from the following recording stations:

BP:	Blossom Point, Maryland
CO:	College, Alaska
FM:	Fort Meyers, Florida

GF:	E. Grant Forks, Minnesota
JO:	Johannesburg, South Africa
LI:	Lima, Peru
MA:	Madagascar, Malagasy
MO:	Mojave, California
OR:	Orroral, Australia
QU:	Quito, Ecuador
RO:	Rosman, North Carolina
SN:	Santiago, Chile
UL:	Fairbanks, Alaska
WI:	Winkfield, England
WO:	Woomera, Australia

RECORDING DATE = Date of recording in the form of YRMOA where YR represents the last two digits of the year, MO the number of the month and DA the number of the day.

PLAYBACK DATE = Date of playback operation in the same form as recording date above; that is, the date on which the analog tape was initially digitized after being received and logged at UCSD.

ANALOG TAPE NUMBER = A four-character alphanumeric identifier assigned to analog tapes by the various recording stations listed above. This assigns a unique alphabetic character to analog tapes recorded at that station, and then numbers tapes sequentially.

Data Indicator = 4 - When the data type indicator is 4, the information title appears as a logical record. This record appears as follows:

CH, TIME, FREQ, RATE, RMSFL, DIST, LONG, LAT, BO, GLAT, B, L,
B/BO, LOGTIME, SE LAT, SE LONG, SE ANG.

These have the following meaning:

CH = Channel number, 1 through 16

TIME = Time in hours, minutes, seconds and hundredths of seconds.
This time indicates the middle of the channel.

FREQ = The average recorded subcarrier frequency during the
channel interval (biased by 1200 hz).

RATE = The counting rate of the channel calculated as a polynomial
function of the frequency.

RMSFL = The RMS deviation for the portion of the channel selected
and 2 flags. The last two digits of the entries under
RMSFL are two 1 digit flags. The first flag tells what
fraction of the channel sample interval was used in the
calculation of a counting rate; the minimum is 1, the
maximum is 4. The second flag gives information con-
cerning the calculation of the counting rate. There
are calibration curves for several different temperatures,
but the actual structure temperature is rarely the same as
the exact temperatures for which calibrations were made.

The second flag has the following interpretation:

0 = structure temperature falls on a calibration contour.

1 = a two-point interpolation was done between calibration
contours.

2 = an extrapolation was done, since the temperature was
outside the range of calibration contours, or the

calculated counting rate was above the dynamic counting rate range for that channel.

- 3 = The calculated counting rate was below the dynamic counting rate range for that channel, or recording frequency of the channel falls in the guard band between 1260 and 1280 cps.

DIST = Distance in kilometers of the satellite from the center of the earth

LONG = Geocentric longitude

LAT = Geocentric latitude

B_0 , B, L, B/B_0 = McIlwain coordinates

GLAT = Geomagnetic latitude

LOCTIME = Local time

SE LAT = Solar ecliptic latitude

SE LONG = Solar ecliptic longitude

SE ANG = Sun-earth probe angle

Data Indicator = 1 or 2 - The information title always follows the ID heading. The different entries in the information title are actually column headings, applying only to logical records with data indicator 1 or 2. Logical records with data indicator 1 are the same as logical records with data indicator 2, except that they also contain coordinate information. The following special cases apply to logical records with data indicator 1 or 2, with respect to channel number:

Ch 7 - time only

Ch 8-1 through 8-6 - no counting rate, second flag is
set to zero

Ch 13 - time only

Ch 14 - no counting rate, frequency and RMS only

Data Indicator = 3 - All other logical records have data indicator

3. These data are the individual sample frequencies for each channel, with about 90 samples per 4.5 second channel. A logical record with data indicator 1 or 2 is always followed by three logical records of individual samples, except channel 14 for which samples were eliminated in the 1st DECOMM. The format for logical records of frequency samples is as follows:

First logical record: 11 groups of 3 samples each plus
one sample at the end.

Second logical record: " "

Third logical record: 7 groups of 3 samples each plus
1 or 2 at the end, depending
on the channel number.

By making a graph of all the samples, an analog chart of the raw data similar to that made at UCSD during playback may be obtained. Note that the above indicated frequency samples are all biased by 1200 hz from the true recorded subcarrier frequency. That is, when, for example, the frequency sample appears as 68 it should be interpreted as 1268.

D. Data Presentation.

Data from the ERS-17, as indicated in previous discussions, goes through many different formats, some of which are only incidental to the entire reduction process, but which may contain information helpful in the utilization of the data. Other forms contain data in various stages of reduction which may be most useful for certain aspects of scientific information. In the following the various formats are indicated and described, as well as their disposition and availability as of this writing.

- 1) Analog Magnetic Tapes - The approximately 1200 IIRG magnetic tapes on 10 $\frac{1}{2}$ " reels received from the STADAN stations are presently located in the tape storage area assigned to the X-ray and Gamma Ray Astronomy Group. These are slowly being used on other NASA programs at UCSD.
- 2) Logbooks - Two logbooks containing a complete history of each analog tape, including STADAN and UCSD playback information. Also included is the chronological log of the playback operations. In addition, there are several scientific notebooks.
- 3) ID Cards - A set of 1317 IBM cards which contain data from the playback log required for automatic reduction. These cards, which are described and listed in Volume 1, identify each continuous data recording. From these listings the likely availability of data at a particular epoch can be ascertained. Some ID card data is also included in the final MERGE output.

ERS-17 MERGED DETECTOR DATA

<u>D#</u>	<u>C#</u>	<u>START</u>	<u>STOP</u>
D-01669	C-05511	07/20/65	07/21/65
D-01670	C-05512	07/21/65	07/23/65
D-01671	C-05513	07/23/65	07/25/65
D-01672	C-05514	07/25/65	07/27/65
D-01673	C-05515	07/27/65	07/29/65
D-01674	C-05516	07/29/65	07/31/65
D-01675	C-05517	07/31/65	08/01/65
D-01676	C-05518	08/01/65	08/03/65
D-01677	C-05519	08/03/65	08/05/65
D-01678	C-05520	08/05/65	08/07/65
D-01679	C-05521	08/07/65	08/09/65
D-01680	C-05522	08/09/65	08/10/65
D-01681	C-05523	08/10/65	08/12/65
D-01682	C-05524	08/12/65	08/14/65
D-01683	C-05525	08/14/65	08/16/65
D-01684	C-05526	08/16/65	08/18/65
D-01685	C-05527	08/18/65	08/19/65
D-01686	C-05528	08/19/65	08/23/65
D-01687	C-05529	08/25/65	08/26/65
D-01688	C-05530	08/26/65	09/01/65
D-01689	C-05531	09/03/65	09/14/65
D-01690	C-05532	09/15/65	09/26/65
D-01691	C-05533	09/28/65	10/03/65
D-01692	C-05534	10/03/65	10/06/65
D-01693	C-05535	10/06/65	10/10/65
D-01694	C-05536	10/10/65	10/11/65
D-01695	C-05537	10/13/65	10/14/65

(con't)

<u>D#</u>	<u>C#</u>	<u>START</u>	<u>STOP</u>
D-01696	C-05538	10/14/65	10/20/65
D-01697	C-05539	10/20/65	10/23/65
D-01698	C-05540	10/23/65	10/29/65
D-01699	C-05541	10/29/65	10/31/65
D-01700	C-05542	10/31/65	11/03/65

RAS478SATELLITE NAME

ERS-17

DATE

December 15, 1971

OBJECTIVE

To determine start and stop times
on 32 tapes.

DESCRIPTION

This program, with the use of the
WRIT4 package, searches the tapes
for ID records. These records
contain the time spans of the
tapes and are at various points
throughout the tapes. When the
ID records are encountered, they
are printed out on the C-3.

INPUT

Tapes

Input tapes are 800 BPI, 7 track,
BCD with one file per tape. They
are mounted on the A-2 drive. The
program is run with one input tape
at a time.

OUTPUT

Printout

The ID records are printed on the
C-3.

#JOB YZJRTZ,K1005,2,385L,T,KA0001,B26
#PAUSE
OPER, ACTION PAUSE

00000

..CONTINUING

#EXECUTE IDJOB
IBJOB VERSION 6 HAS CONTROL.
#IBJOB GO,MAP
#IBFTC MAIN NODECK

MAIN - EFN SOURCE STATEMENT - IFN(S) -

DIMENSION ARRAY(160)

THIS PROGRAM SEARCHES THE 006-17 TAPES TO FIND THE 10 RECORDS
WHICH CONTAIN THE TIME SPANS FOR THE DATA.

	WRITE(3,15)	1
15	FORMAT (1P1)	
	NREC=0	
1	CALL BCORR (5,ILENG,ARRAY,1000)	3
	NREC=NREC+1	
	IF (1000) 29,2,1	
2	DO 10 I=1,900,120	
	CALL CVTNUM (1,ARRAY,1,NW1)	11
	CALL CVTNUM (1+1,ARRAY,1,NW0)	13
	IF (NW1.EQ.1.AND.NW0.EQ.0) GO TO 19	
10	CONTINUE	
	GO TO 1	
19	WRITE(3,20) (ARRAY(I),J=1,20)	22
20	FORMAT (11X,20A6)	
	GO TO 1	
29	CALL BCORR (5)	31
	STOP	
	END	

MAIN PROGRAM

DIMENSIONED PROGRAM VARIABLES

SYMBOL	LOCATION	TYPE	SYMBOL	LOCATION	TYPE	SYMBOL	LOCATION	TYPE
ARRAY	C0001	R						

UNDIMENSIONED PROGRAM VARIABLES

SYMBOL	LOCATION	TYPE	SYMBOL	LOCATION	TYPE	SYMBOL	LOCATION	TYPE
NREC	00241	I	ILENG	00242	I	IDDE	00243	I
I	00244	I	N#1	00245	I	N#0	00246	I

ENTRY POINTS

***** SECTION 3

SUBROUTINES CALLED

.FWRD.	SECTION	4	BCORD	SECTION	5	CVTNUM	SECTION	6
BCDRW	SECTION	7	.EXIT.	SECTION	8	.UN03.	SECTION	9
.FFIL.	SECTION	10	.FCNV.	SECTION	11	SYSLC	SECTION	12

EFN IFN CORRESPONDENCE

EFN	IFN	LOCATION	EFN	IFN	LOCATION	EFN	IFN	LOCATION
15	FORMAT	00250	1	7A	00272	29	30A	00362
2	7A	00310	10	A	00343	19	22A	00346
20	FORMAT	00261						

THE FIRST LOCATION NOT USED BY THIS PROGRAM IS 0410.

05/10/71

PAGE 3

11BLCR WRIT 4
11BLCR UNPK

05/10/71 WRIT0000
06/10/71 UNPK0000

3 7 184173182 184184183 183184184 183182182 183184183 183183182 175
 188 75110.57 169.7 1.7568 31 224
 385 173171171 171171170 171170170 173170170 150120164 1711
 71170 170171170 170169171 171170170 171170170 170 388 173170170 170170170 170170170 1701
 1161 161173171 171171170 170170170 169170171 170170169 171170170 169171171 170 388 169171170 1701
 59172 168169162 159130161 114167172 170169172 170171167 150
 1 9 75115.7 85.3 1.3095 52 233

184110111 152 97 63 90 87 86 85 84 83 83110 90 83 81 81 82 81 81 81
 81 81 83 81 81 81 81 81 81 81 3 9 81 81 30 80 81 81 81 81 84 87 90 81 80
 81 81 81 80 81

REC 2, LENGTH 960

3 9 82 81 81 81 81 81 80 80 81 81 79 79 85 81 40 80 81 81 81 81 81 82
 110 75115.57 85.4 1.3058 50 320
 310 81 80 81
 81 83 80173176 112 80 74 74 91 91 80 81 81 81 81 81 81 81 81 81 81 81 81 81
 87 84 80 84 86 80 87 87 85 85 85 84 83 83 83 82 81 83 83 90 90 80 89 310 87 87 86 85
 84 84 81 81 83 82 82 73 69 55 80 81 82 81 81 83 87 86
 111 75124.67 81.0 1.1275 60 310
 311 85 84 83 82 82 82 82 81 81 81 81 81 81 81 81 81 81 81 81 81 81 81 81
 84 95 84 81 81 82 81 81 81 81 81 81 81 81 81 81 81 81 81 81 81 81 81
 80 82 81 72 60 95132 94 63 79 81 82 81 81 81 81 81 81 81 81 81 81 81 81

REC 3, LENGTH 960

311 81 81 81 81 81 81 81 81 80 84 80 81 81 81 81 80 80 81
 112 75125.67 78.8 2.1065 50 323
 312 81 80 79 79 79 79 78 79 79 79 79 79 79 79 79 79 79 79 79 79 79
 79 79 78 78 79 80 79 92 112 82 79 78 79 79 79 79 79 79 79 79 79 79 79
 79
 76 78 75 75 78 75 75 79 75 75 75 75 83 90 80 79 78 78 79 79 79 79 79 79 79
 79 78 78 75 79 79 79 79 80 78 79 78 79 78 80 78 80 123
 113 75133.67 79.3 2.1800 51 323

114 114164175 16182182 144184183 183183184 184183184 184184183 184184184 1821
 3184 170171182 184164183 183184184 184 313 183183184 184183184 184184182 184183184 184183184 1841
 9183 184183184 183184184 184182184 184183183 184184184 184

REC 4, LENGTH 960

313 183184183 184183184 184184184 183184184 183184184 183183183 184184183 158
 1040
 114 75137.57 124.0
 115 75142.67 86.3 1.3095 52 120
 315 116 96 92 91 87 84 82 80 79 77
 76 77 76 76 75 78 76 75 75 76 75 75 75 75 75 75 75 75 76 315 83 82 76 75
 75 74 75 75 75 75 76 75 75 75 75 75 75 75 75 75 75 75 75 75 75 75 75
 315 143 83 79 76 74 74 76 74 74 75 75 75 75 74 75 75 75 75 75 75 75 75 75
 116 75144.57 79.3 2.1800 51 323
 316 80 78 79 79 79 79 80 79 79 79 79 79 79 79 79 79 79 79 79 79 79 79
 79 79 79 79 79 79 80 79 79 79 79 79 79 79 79 79 79 79 79 79 79 79 79

REC 5, LENGTH 960

316 87 67 81 80 80 75 80 80 79 79 79 79 79 79 79 79 79 79 79 79 79 79
 80 80 80 80 79 84 316 92 83 79 79 80 79 79 79 79 79 79 79 80 79 79 80 80 80 79 79 74

D- 1700

10/31/65 - 11/03/65

10	ID	5817	STATION	JC	RECORDING DATE	651031	PLAYBACK DATE	661123	ANALOG TAPE NUMBER	Q242
10	ID	5818	STATION	JC	RECORDING DATE	651031	PLAYBACK DATE	661123	ANALOG TAPE NUMBER	Q243
10	ID	5820	STATION	JC	RECORDING DATE	651031	PLAYBACK DATE	661123	ANALOG TAPE NUMBER	Q244
10	ID	5821	STATION	JC	RECORDING DATE	651031	PLAYBACK DATE	661125	ANALOG TAPE NUMBER	Q245
10	ID	5822	STATION	JC	RECORDING DATE	651031	PLAYBACK DATE	661125	ANALOG TAPE NUMBER	F172
10	ID	5823	STATION	JC	RECORDING DATE	651031	PLAYBACK DATE	661125	ANALOG TAPE NUMBER	F172
10	ID	5824	STATION	QU	RECORDING DATE	651031	PLAYBACK DATE	661125	ANALOG TAPE NUMBER	F173
10	ID	5825	STATION	QU	RECORDING DATE	651031	PLAYBACK DATE	661125	ANALOG TAPE NUMBER	F173
10	ID	5826	STATION	QU	RECORDING DATE	651031	PLAYBACK DATE	661125	ANALOG TAPE NUMBER	F174
10	ID	5827	STATION	QU	RECORDING DATE	651031	PLAYBACK DATE	661125	ANALOG TAPE NUMBER	F175
10	ID	5828	STATION	QU	RECORDING DATE	651031	PLAYBACK DATE	661125	ANALOG TAPE NUMBER	F176
10	ID	5829	STATION	QU	RECORDING DATE	651031	PLAYBACK DATE	661125	ANALOG TAPE NUMBER	F177
10	ID	5830	STATION	QU	RECORDING DATE	651031	PLAYBACK DATE	661125	ANALOG TAPE NUMBER	F178
10	ID	5839	STATION	AC	RECORDING DATE	651031	PLAYBACK DATE	661201	ANALOG TAPE NUMBER	S143
10	ID	5840	STATION	CR	RECORDING DATE	651101	PLAYBACK DATE	661201	ANALOG TAPE NUMBER	V001
10	ID	5841	STATION	CR	RECORDING DATE	651101	PLAYBACK DATE	661201	ANALOG TAPE NUMBER	V002
10	ID	5842	STATION	CR	RECORDING DATE	651101	PLAYBACK DATE	661201	ANALOG TAPE NUMBER	V003
10	ID	5844	STATION	JC	RECORDING DATE	651101	PLAYBACK DATE	661201	ANALOG TAPE NUMBER	Q245
10	ID	5845	STATION	JC	RECORDING DATE	651101	PLAYBACK DATE	661201	ANALOG TAPE NUMBER	Q246
10	ID	5846	STATION	JC	RECORDING DATE	651101	PLAYBACK DATE	661219	ANALOG TAPE NUMBER	Q247
10	ID	5847	STATION	JC	RECORDING DATE	651101	PLAYBACK DATE	661219	ANALOG TAPE NUMBER	Q248
10	ID	5848	STATION	JC	RECORDING DATE	651101	PLAYBACK DATE	661219	ANALOG TAPE NUMBER	Q249
10	ID	5849	STATION	JC	RECORDING DATE	651101	PLAYBACK DATE	661219	ANALOG TAPE NUMBER	Q250
10	ID	5850	STATION	AI	RECORDING DATE	651101	PLAYBACK DATE	661219	ANALOG TAPE NUMBER	P034
10	ID	5851	STATION	AI	RECORDING DATE	651101	PLAYBACK DATE	661219	ANALOG TAPE NUMBER	P035
10	ID	5854	STATION	JC	RECORDING DATE	651101	PLAYBACK DATE	661219	ANALOG TAPE NUMBER	Q251
10	ID	5855	STATION	JC	RECORDING DATE	651101	PLAYBACK DATE	661219	ANALOG TAPE NUMBER	Q252
10	ID	5856	STATION	FM	RECORDING DATE	651101	PLAYBACK DATE	661219	ANALOG TAPE NUMBER	D067
10	ID	5857	STATION	FM	RECORDING DATE	651101	PLAYBACK DATE	661219	ANALOG TAPE NUMBER	D068
10	ID	5858	STATION	FM	RECORDING DATE	651101	PLAYBACK DATE	661219	ANALOG TAPE NUMBER	D069
10	ID	5859	STATION	FM	RECORDING DATE	651101	PLAYBACK DATE	661219	ANALOG TAPE NUMBER	D070
10	ID	6001	STATION	JC	RECORDING DATE	651103	PLAYBACK DATE	661219	ANALOG TAPE NUMBER	Q253

10	ID	6002	STATION	JC	RECORDING DATE	651103	PLAYBACK DATE	661219	ANALOG TAPE	NUMBER	0254
10	ID	6003	STATION	JC	RECORDING DATE	651103	PLAYBACK DATE	661219	ANALOG TAPE	NUMBER	0255
10	ID	6004	STATION	JC	RECORDING DATE	651103	PLAYBACK DATE	661220	ANALOG TAPE	NUMBER	0256
10	ID	6014	STATION	MA	RECORDING DATE	651103	PLAYBACK DATE	661220	ANALOG TAPE	NUMBER	W227

