#201

EMP-G

EXPLORER 41

LOW ENERGY TELESCOPE

69-053A-01A

Table of Contents

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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 This inventory information is now no longer maintained in the DSCs, but is now managed in the inventory part of the NSSDC information system.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

IMP-G

DATA SET -01A IN IBM 7094 FORMAT

69-053A-01C

THIS DATA SET HAS BEEN RESTORED. THERE WERE ORIGINALLY TWENTY-THREE 7-TRACK, 800 BPI TAPES WRITTEN IN BINARY. THERE ARE THREE RESTORED TAPES. THE DR TAPES ARE 3480 CARTRIDGES AND THE DS TAPES ARE 9-TRACK, 6250 BPI. THE YEARS FOR THE TIME SPANS COULD NOT BE VERIFIED. THE ORIGINAL TAPES WERE CREATED ON AN IBM 7094 COMPUTER AND WERE RESTORED ON AN IBM 9021 COMPUTER. THE DR AND DS NUMBERS ALONG WITH THE CORRESPONDING D NUMBERS AND TIME SPANS ARE AS FOLLOWS:

DR#	DS#	D#	FILES	TIME SPAN	
DR005056	DS005056	D010873	1	06/21/69 - 07/08/69	(a)
		D010874	2	07/08/69 - 07/25/69	(b)
		D010875	3	07/25/69 - 08/10/69	(c)
		D010876	4	08/10/69 - 08/27/69	
		D010877	5	08/27/69 - 09/13/69	
		D010878	6	09/13/69 - 09/30/69	(d)
		D010879	7	09/30/69 - 10/17/69	(e)
		D010880	8	10/17/69 - 11/02/69	
		D010881	9	11/02/69 - 11/19/69	
DR005057	DS005057	D010882	1	11/19/69 - 12/06/69	
		D010883	2	12/06/69 - 12/20/69	(f)
		D010884	3	12/20/69 - 01/02/70	
		D010885	4	01/02/70 - 01/15/70	(g)
		D010886	5	01/17/70 - 02/01/70	
		D010887	6	02/01/70 - 02/21/70	(h)
		D010889	7	02/28/70 - 03/17/70	(i)
		D010890	8	03/17/70 - 04/06/70	
		D010891	9	04/06/70 - 04/26/70	
DR005058	DS005058	D010892	1	04/26/70 - 05/17/70	(j)
		D010893	2	05/17/70 - 06/06/70	(k)
		D010894	3	06/06/70 - 06/29/70	(l)
		D010895	4	06/29/70 - 07/23/70	(m)
		D010896	5	07/23/70 - 08/15/70	(n)

(a) D010873 - 2 ERRORS, REC. 3333, 3376, FILE 1
(b) D010874 - 1 ERROR, REC. 405, FILE 1
(c) D010875 - 4 ERRORS, REC. 13, 17, 23, 1106, FILE 1
(d) D010878 - 1 ERROR, REC. 2112, FILE 1

(e) D010879 - 2 ERRORS, REC. 18, 3908, FILE 1
(f) D010883 - 2 ERRORS, REC. 2859, 3310, FILE 1
(g) D010885 - 1 ERROR, REC. 495, FILE 1
(h) D010887 - 8 ERRORS, REC. 1541 - 47, 1556, FILE 1
(i) D010889 - 1 ERROR, REC. 191, FILE 1
(j) D010892 - 1 ERROR, REC. 134, FILE 1
(h) D010893 - 14 ERRORS, REC. 21, 23, 72, 412, 413, 437-439, 441, 442, 444, 445, 2056, 2408, FILE 1
(i) D010894 - 14 ERRORS, REC. 11-13, 15, 82, 94, 121, 154, 160, 163, 169, 184, 190, 4135, FILE 1
(j) D010895 - 3 ERRORS, REC. 1114, 2279, 3386, FILE 1
(k) D010896 - 3 ERRORS, REC. 370, 2131, 6482, FILE 1

IMP-G

LOW ENERGY TELESCOPE

69-053A-01A

THIS DATA SET HAS BEEN RESTORED. ORIGINALLY IT CONTAINED FORTY-THREE 7-TRACK, 800 BPI TAPES. THE FIRST 23 TAPES CONTAINED ONE FILE OF DATA. THE NEXT 20 TAPES WERE STANDARD LABELLED WITH THREE FILES EACH. THESE LABELS WERE STRIPPED AND JUST THE DATA FILE WAS LEFT. THERE ARE SEVEN RESTORED TAPES. THE DR TAPES ARE 3480 CARTRIDGES AND THE DS TAPES ARE 9-TRACK, 6250 BPI. THE ORIGINAL TAPES WERE CREATED ON A GE635 COMPUTER AND THEY WERE RESTORED ON THE MRS SYSTEM. THE DR AND DS NUMBERS ALONG WITH THE CORRESPONDING D NUMBERS AND THE TIME SPANS ARE AS FOLLOWS:

DR#	DS#	D#	FILES	TIME SPAN	
DR004416	DS004416	D009835	1	06/21/69 - 07/08/69	(a)
		D009836	2	07/08/69 - 07/25/69	(b)
		D009837	3	07/25/69 - 08/10/69	(c)
		D009838	4	08/10/69 - 08/27/69	(d)
		D009839	5	08/27/69 - 09/13/69	
		D009840	6	09/13/69 - 09/30/69	(e)
		D009841	7	09/30/69 - 10/17/69	(f)
		D009842	8	10/17/69 - 11/02/69	
		D009843	9	11/02/69 - 11/19/69	(g)
DR004417	DS004417	D009844	1	11/19/69 - 12/06/69	
		D009845	2	12/06/69 - 12/20/69	(h)
		D009846	3	12/20/69 - 01/02/70	
		D009847	4	01/02/70 - 01/15/70	
		D009848	5	01/15/70 - 01/26/70	
		D009849	6	01/26/70 - 02/11/70	(i)
		D009851	7	02/28/70 - 03/17/70	
		D009852	8	03/17/70 - 04/06/70	(j)
		D009853	9	04/06/70 - 04/26/70	(k)
		D009854	10	04/26/70 - 05/17/70	
DR004418	DS004418	D009855	1	05/17/70 - 06/06/70	
		D009856	2	06/06/70 - 06/29/70	(l)
		D009857	3	06/29/70 - 07/23/70	
		D009858	4	07/23/70 - 08/15/70	
DR004419	DS004419	D017890	1	08/15/70 - 09/09/70	
		D017891	2	09/08/70 - 10/01/70	
		D017892	3	10/01/70 - 10/25/70	
		D017893	4	10/25/70 - 11/18/70	
		D017894	5	11/18/70 - 12/11/70	(m)
		D017895	6	12/11/70 - 01/04/71	(o)
DR004420	DS004420	D017896	1	01/04/71 - 01/27/71	
		D017897	2	01/27/71 - 02/20/71	
		D017898	3	02/20/71 - 03/15/71	
		D017899	4	03/15/71 - 04/08/71	(p)

DR004421	DS004421	D023795	1	04/08/71 - 05/01/71	
		D023796	2	05/01/71 - 05/25/71	
		D023797	3	05/25/71 - 06/21/71	(q)
		D023798	4	06/21/71 - 07/18/71	
		D023799	5	07/18/71 - 08/14/71	
DR004422	DS004422	D023800	1	08/14/71 - 09/06/71	(r)
		D023801	2	09/06/71 - 09/30/71	
		D023802	3	09/30/71 - 10/23/71	(s)
		D023803	4	10/23/71 - 11/15/71	
		D023804	5	02/28/72 - 03/23/72	

(a) READ ERROR OCCURRED ON RECORD 99 OF FILE 1
(b) READ ERROR OCCURRED ON RECORD 705 OF FILE 1
(c) READ ERRORS OCCURRED ON RECORDS 1741 - 1745 OF FILE 1
(d) READ ERRORS OCCURRED ON RECORDS 1256, 1274, 1283, 1292, 1301, 1310, 1319, 1328, 1337, 1346, 1355, 1373, 1382, OF FILE 1
(e) READ ERROR OCCURRED ON RECORD 310 OF FILE 1
(f) READ ERROR OCCURRED ON RECORD 8 OF FILE 1
(g) READ ERROR OCCURRED ON RECORD 480 OF FILE 1
(h) READ ERRORS OCCURRED ON RECORDS 6, 546 - 548, 564, 1426 OF FILE 1
(i) READ ERROR OCCURRED ON RECORD 275 OF FILE 1
(j) READ ERRORS OCCURRED ON RECORDS 1916, 1921 OF FILE 1
(k) READ ERROR OCCURRED ON RECORD 305 OF FILE 1
(l) READ ERRORS OCCURRED ON RECORDS 62, 63, 66, 383 OF FILE 1
(m) READ ERROR OCCURRED ON RECORD 80 OF FILE 1
(n) READ ERROR OCCURRED ON RECORD 4, FILE 1
(o) READ ERROR OCCURRED ON RECORD 290, FILE 1
(p) READ ERRORS OCCURRED ON RECORDS 293, 441, 450 OF FILE 1
(q) READ ERROR OCCURRED ON RECORD 2546 OF FILE 1
(r) READ ERROR OCCURRED ON RECORD 6160 OF FILE 1
(s) READ ERROR OCCURRED ON RECORD 209, OF FILE 1

REQ. AGENT	RANGE NO.	ACQ. AGENT
PAR	R32368	JHK
CMT	RC3475	
WTJ	RC6124	

EXPLORER 41

LOW ENERGY TELESCOPE

69-053A-01A

This data set consists of 43 Explorer 41 Low Energy Telescope tapes. These tapes are 800 BPI, Binary, 7-track, each containing one file of Low Energy Telescope Telemetry and Orbital data. They were originally created on a GE635 computer.

The physical records are variable length. The telemetry logical records are 10 words long and the orbital records are 20 words long.

The time spans for the tapes are:

D#	C#	TIME SPAN
D-09835	C-07930	6/21/69 - 7/08/69
D-09836	C-07931	7/08/69 - 7/25/69
D-09837	C-07932	7/25/69 - 8/10/69
D-09838	C-07933	8/10/69 - 8/27/69
D-09839	C-07934	8/27/69 - 9/13/69
D-09840	C-07935	9/13/69 - 9/30/69
D-09841	C-07936	9/30/69 - 10/17/69
D-09842	C-07937	10/17/69 - 11/02/69
D-09843	C-07938	11/02/69 - 11/19/69
D-09844	C-07939	11/19/69 - 12/06/69
D-09845	C-07940	12/06/69 - 12/20/69
D-09846	C-07941	12/20/69 - 1/02/70
D-09847	C-07942	1/02/70 - 1/15/70
D-09848	C-07943	1/15/70 - 1/26/70
D-09849	C-07944	1/26/70 - 2/11/70
D-09851	C-07945	2/28/70 - 3/17/70

D#	C#	TIME SPAN
D-09852	C-07946	3/17/70 - 4/06/70
D-09853	C-07947	4/06/70 - 4/26/70
D-09854	C-07948	4/26/70 - 5/17/70
D-09855	C-07949	5/17/70 - 6/06/70
D-09856	C-07950	6/06/70 - 6/29/70
D-09857	C-07951	6/29/70 - 7/23/70
D-09858	C-07952	7/23/70 - 8/15/70
D-17890	C-15125	8/15/70 - 9/09/70
D-17891	C-15126	9/08/70 - 10/01/70
D-17892	C-15127	10/01/70 - 10/25/70
D-17893	C-15128	10/25/70 - 11/18/70
D-17894	C-15129	11/18/70 - 12/11/70
D-17895	C-15130	12/11/70 - 1/04/71
D-17896	C-15131	1/04/71 - 1/27/71
D-17897	C-15132	1/27/71 - 2/20/71
D-17898	C-15133	2/20/71 - 3/15/71
D-17899	C-15134	3/15/71 - 4/08/71
D-23795	C-17895	4/08/71 - 5/01/71
D-23796	C-17896	5/01/71 - 5/25/71
D-23797	C-17897	5/25/71 - 6/21/71
D-23798	C-17898	6/21/71 - 7/18/71
D-23799	C-17899	7/18/71 - 8/14/71
D-23800	C-17900	8/14/71 - 9/06/71
D-23801	C-17901	9/06/71 - 9/30/71
D-23802	C-17902	9/30/71 - 10/23/71
D-23803	C-17903	10/23/71 - 11/15/71
D-23804	C-17904	2/23/72 - 3/23/72

IMP-G
Explorer 41 #201

DESCRIPTION OF BTL EXPLORER 34 AND 41 REDUCED DATA TAPES

The reduced-data tapes contain, in a compacted and time ordered form, the telemetry and orbital information relevant to the Bell Laboratories experiments on the satellites Explorer 34 and 41 (IMP-F and IMP-G). They are 7-track digital magnetic tapes recorded at 800 b.p.i. in odd parity (binary mode). The tape format is the GECOS Standard System Format (see the appendix) in which information is grouped into logical records. Two tapes of logical records can appear on a reduced-data tape: packed telemetry records and orbital information records. The record type is determined by the record size: the packed telemetry records are ten words long while the orbital information records are 20 words long. The packing scheme for the telemetry records is found in Table 1; the scheme for the orbital information records is found in Table 2.

The orbit data are given every 10 minutes, except when R< 42000 km, when the orbit data are given every minute. The orbital information records giving the orbit data are interspersed on the tape among the packed telemetry records in a special order with respect to time. The time value of any packed-telemetry record read from the tape will lie between the time values of the middle two of the last four orbital-information records read from the tape. An immediate consequence of this is that the first four logical records on a reduced data tape are orbital information records. With this scheme, interpolation of the orbital data to the exact time of a telemetry sequence can be easily accomplished.

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*Separate, nearly identical, Explorer 34 and 41 descriptions generated by BTL personnel and merged at NSSDC.

since there are always four relevant points equally spaced in time. Care must be used in doing this since some of the orbital data items may be flagged as bad or unavailable data.

TABLE 1

Packed Telemetry Record

WORD	BITS	CONTENTS
1	0-8	Day of the Year
	9-35	Millisecond of Day for Frame
2	0-3	Year (7=1967)
	4-5	Time Flag**
	6-7	Sequence Clock Flag
	8	Tape Read Error
	9	Experiment on/off Flag on = 0, off = 1
	10-18	0
	19-35	Satellite Sequence (see table 3)
3	0-2	0
	3	See Sun Flag
	4-17	See Sun Time (msec)
	18	0
	19	Register 1 Flag
	20-35	Register 1 Counts*

**1 Bit Flags: 0-Good, 1- Otherwise

Flags of 2 Bits: 11-Data Quality Good
10-Data Quality Poor
01-Data Quality Bad
00-Data Quality not Determined

TABLE I (CONT.)

WORD	BITS	CONTENTS
4/5	0	0
	1	Register 2/4 Flag
	2-17	Register 2/4 Counts*
	18	0
	19	Register 3/5 Flag
	20-35	Register 3/5 Counts*
6	0-9	Real Flags for 5 Registers as they were read from telemetry record, 2 bits for each register
	10-11	0
	12-13	Pseudo-Sequence Clock Flag
	14-35	Pseudo-Sequence Clock
7	0-1	Optical Aspect Flag
	2-17	Optical Aspect Scan (0-180°. Binary Point 5 Places to the Left)
	18-19	Spin Period Flag
	20-35	Spin Period (msec) (2000-3000 msec)

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* In the 16 bits of the register counts, if bits 1 and 2 of those bits = 1, in order to determine the register counts use the following formula:

Counts = 16383*RMAX/(RMAX-contents of bits 3 through 16) where RMAX = 14848. For example, if word 4 were 340,037,021,637 (octal), the 16 bits of the register count for register 2 would be 1100000000011111. Since bits 1 and 2 of these 16 bits are 1 the counts for register 2 would be calculated by

16383*14848/(14848-31).

(3)

TABLE 1 (CONT)

WORD	BITS	CONTENTS
8	0-17	Optical Aspect 3 (0-20,000 msec)
	18-35	Optical Aspect 4 (0-300 msec)
9	0-17	Performance Parameters 7 (11.7 V)
	18-35	Performance Parameters 8 (28 V)
10	0-17	Performance Parameter (BTL Bias)
	18-35	Temperature-Even Sequence Skin Temperature-Odd Sequence

Orbital Information Record

WORD	CONTENTS
1	Day of the Year (Bits 0-8) and msec of Day (Bits 9-35)
2	Geocentric Longitude (Degrees)
3	Geocentric Latitude (Degrees)
4	R (km)
5	X
6	Y } Satellite Position- Solar Ecliptic (Earth
7	Z } Radii)
8	X
9	Y } Satellite Position-Solar Magnetospheric
10	Z } (Earth Radii)
11	X
12	Y } Moon Position-Solar Ecliptic (Earth Radii)
13	Z
14	RA-Right Ascension Inertial Ecliptic Satellite Position
15	D-Declination

$$\begin{pmatrix} X=R \cos D \cos RA \\ Y=R \cos D \sin RA \\ Z=R \sin D \end{pmatrix}$$

TABLE 2 (CONT)

WORD	CONTENTS	
16	L-McIlwain Parameter	Real Field Co-ordinate System
17	B-Field Strength	
18	L_{sep}	Satellite-Earth-Sun-Angle
19	Right Ascension	of the Magnetic Vector
20	Declination	

Satellite Sequence and Calibrate Mode

If not in a calibrate mode, bits 31-35 of word 2 of a packed telemetry record determine the mode, according to the following table:

Bits 31-35	Mode	Bits 31-35	Mode
0	D	16	D
1	A	17	A
2	H	18	H
3	K	19	K
4	I	20	I
5	B	21	G
6	M	22	M
7	C	23	J
8	D	24	D
9	A	25	L
10	H	26	H
11	K	27	M
12	I	28	I
13	E	29	C
14	M	30	M
15	F	31	P

If in the calibrate mode, that is, if bits 25-29 of word 2 of a packed telemetry record are all ones,

bit 30=0 particle source in calibration

bit 30=1 test pulsar in calibration

If the satellite sequence (word 2) and pseudo-sequence clock (word 6) do not agree, use the satellite sequence for computations.

TABLE 4

Correspondence between Particles and Channels

CHANNEL	ENERGY (MeV/NUCLEON)		EFFICIENCY TO GET FLUX (cm²sec.str. $\frac{\text{MeV}}{\text{Nucleon}}$)⁻¹ (from cnts/sec)	
ALPHAS	Explorer 34 (IMP F)	Explorer 41 (IMP G)	Explorer 34	Explorer 41
A4*	1.0-1.6	1.0-1.5	10.3	10.9
A5	1.6-2.2	1.5-2.1	11.7	11.4
B5	2.2-3.0	2.2-4.4	8.2	2.9
P3	4.0-6.0	4.4-6.1	3.3	3.7
P4	6.0-11.8	6.1-10.6	1.1	1.3
P5		10.6-20.9		1.2
PROTONS				
A1	.56-.60	0.47-0.53	163	109
A2	.60-1.20	0.53-1.07	11.3	12.1
A3	1.2-2.4	1.07-2.5	5.2	4.7
B3	2.5-4.3	2.5-4.3	3.5	3.6
D1	4.4-5.0		11.7	
D2	5.0-9.4	4.3-8.2	1.6	1.7
D3	9.4-17.4	8.2-17.0	0.8	0.7
D4	17.3-18.9	17.0-19.7	4.0	2.4
M1		5.0-5.9		3.2
M2		5.9-8.8		1.0
M3		8.8-16.7		0.4
ELECTRONS				
H1	>0.30 MeV	>0.35 MeV	57	28.6
H2	>0.50 MeV	>0.6 MeV	7.2	6.3
H3	>1.0 MeV	>1.1 MeV	7.2	8.2

* CHANNEL A4 IS FROM MODE A, REGISTER 4

APPENDIX

GECOS Standard System Tape Format

A tape written as a GECOS standard system tape has three files, the first and last file being header and trailer labels, each containing one fourteen-word (one word=36 bits) record. The header and trailer labels contain information for use by the BTL Computation Center.

The second file contains the telemetry and orbital information in data blocks (physical records) of up to 320 words. The first word of each block contains the block serial number: bits 0-17 is the block serial number, the sequential number of the block (physical record) and bits 18-35 contain the block size. The block size is the number of 36-bit words not including the block-serial-number word in the record (e.g. if the block had 320 words, the block size would be 319 as the first word is the block serial number).

The logical records contained within each block are variable length and have a record size control word as the first word of each variable-length record. The contents of bits 0-17 of this control word give the binary equivalent of the record size in words not including the record size control word. The remainder of the word contains information for the GECOS system.

FILE 0002 REC 0001 CH 1878

0001	000001000470	000024000000	343442721240	012716747573	017301307701	034606317165	033302462443	032411053732
0049	035264661503	033302462443	030540072532	035246256006	047262437472	042654122420	035030635410	022466424745
0097	017301307701	012611762400	032722776160	016707742120	022431653012	017346075612	000024000000	343443106400
0145	014421111771	017272721214	034615103126	033316630006	032400376573	035250412364	033316630006	030511037416
0193	035232551743	047262427005	042653734602	035030764200	022474000021	017272721215	012745533766	032701216227
0241	016702310366	022432021437	017332700542	000024000000	343443273540	014513114537	017265043130	034623766637
0289	033333152430	030757353170	035234336134	033333152430	030461631532	035217243562	047262416317	042653546742
0337	035031113000	022503400567	017265043135	014456150144	032657472335	016674771134	022432171720	017317774461
0385	000024000000	343443460700	014635130036	017260070446	034632744520	033347640375	030735460167	035220452544
0433	033347640375	030432266216	035204130652	047262405634	042653361052	035031241700	022516002412	017260070454
0481	014573107006	032636102525	016667564651	022432350314	017305355026	000012000000	343443220447	516000157432
0529	002655000371	000747000063	000002000000	777415611136	005220004242	002775000000	000566001572	000211402400
0577	000012000000	343443244432	516000157433	002655000000	000000000000	000001000000	777415611137	005220004242
0625	002775000000	000566001572	000211402400	000012000000	343443270416	516000157434	001557000006	000012000011
0673	000000000000	777415611140	005220004244	001677000000	000566001572	000212000724	000024000000	343443646040
0721	016407442132	017254335053	034642007422	033364460645	030713332525	035204755644	033364460645	030402601336
0769	035171206507	047262375155	042653173167	035031370460	022534400301	017254335063	014735400345	032614734737
0817	016662473304	014473521363	017301374100	000012000000	343443314401	516000157435	001557000000	000000000000
0865	000000000000	777415611141	005220004244	001677000000	000566001572	000212000724	000012000000	343443340365
0913	516000157436	000463000451	001121000423	000007000000	777415611142	005220004242	000603000000	000566001572
0961	000211402400	000012000000	343443364350	516000157437	000463000000	000000000000	000000000000	777415611143
1009	005220004242	000603000000	000566001572	000211402400	000012000000	343443410334	516000157440	003627000001
1057	000000000000	000000000000	777415611144	005220004244	003747000000	000566001572	000134000724	000012000000
1105	343443434317	516000157441	003627000124	000655001724	000026000017	777415611145	005220004244	003747000000
1153	000566001572	000134000724	000012000000	343443460302	516000157442	002530000376	000767000101	000003000001
1201	777415611146	005220004242	002650000000	000566001572	000134002400	000024000000	343444033200	016517645365
1249	017252430754	034651132504	031003046146	030670767615	035171445151	031003046146	026726015017	035156452322
1297	047262364477	042653005314	035031517340	006664144014	017252430767	016454005364	032574065400	016655514227
1345	014533007461	017302452555	000012000000	343443504265	516000157443	002530000125	001204001707	000021000011
1393	777415611147	005220004242	002650000000	000566001572	000134002400	000012000000	343443530251	516000157444
1441	001435000011	000014000005	000000000000	777415611150	005220004242	001555000000	000566001572	000130000724
1489	000012000000	343443554234	516000157445	001435000003	001145000223	000001000025	777415611151	005220004242
1537	001555000000	000566001572	000130000724	000012000000	343443600220	516000157446	000336000506	001113000364
1585	000013000000	777415611152	005220004244	000456000000	000566001572	000127402400	000012000000	343443624203
1633	516000157447	000336000000	000000000000	000000000000	777415611153	005220004244	000456000000	000566001572
1681	000127402400	000024000000	343444220340	016634011506	017252614570	034660331356	031035176752	030646223740
1729	035156316312	031035176752	026646237475	035144101250	047262354021	042652617423	035031646200	012641657366
1777	017252614575	016566706421	032553557534	016650646472	014567464307	017303644616	000012000000	343443650167
1825	516000157450	003502000000	000001000000	000000000000	777415611154	005220004242	003622000005	000566001572
1873	000031000724							

FILE 0002 REC 0002 CH 1902

0001	000002000474	000012000000	343443674152	516000157451	003502000146	000623001731	000015000027	777415611155
0049	005220004242	003622000005	000566001572	000031000724	000012000000	343443720136	516000157452	002406000315
0097	000672000072	000002000000	777415611156	005220004242	002526000000	000566001572	000031402400	000012000000
0145	343443744121	516000157453	002406000117	001130001654	000010000005	777415611157	005220004242	002526000000
0193	000566001572	000031402400	000012000000	343443770104	516000157454	001310000003	000013000014	000000000000
0241	777415611160	005220004244	001430000002	000566001572	000051000724	000012000000	343444014067	516000157455
0289	001310000000	000000000000	000000000000	777415611161	005220004244	001430000002	000566001572	000051000724
0337	000024000000	343444405500	016735055715	017254664764	034667577665	031067535245	030623272524	035143346673
0385	031067535245	026566315310	035131710425	047262343350	042652431542	035031775050	014525042661	017254664766
0433	016617775747	032533646606	016644111055	014621435114	017305131622	000012000000	343444040053	516000157456
0481	000214000461	001073000411	000007000000	777415611162	005220004244	000336000005	000566001572	000051402400
0529	000012000000	343444064036	516000157457	000214000000	000000000000	000000000000	777415611163	005220004244
0577	000336000005	000566001572	000051402400	000012000000	343444110022	516000157460	003357000000	000000000000
0625	000000000000	777415611164	005220004244	003477000000	000566001572	000211000724	000012000000	343444134005
0673	516000157461	003357000166	000757001431	000031000020	777415611165	005220004244	003477000000	000566001572
0721	000211000724	000012000000	343444157771	516000157462	002264000300	000672000065	000000000000	777415611166
0769	005220004244	002406000000	000566001572	000212402400	000012000000	343444203754	516000157463	002264000133
0817	001024001655	000023000006	777415611167	005220004244	002406000000	000566001572	000212402400	000024000000
0865	343444572640	020406567236	017260124175	034677111733	031122263625	030600166562	035130554017	031122263625
0913	026506247660	035117675122	047262332703	042652243656	035032123700	014667646647	017260124175	016617775747
0961	032514356714	016637462154	014651040073	017306473417	000012000000	343444227737	516000157464	001170000012

FILE 0002 REC 0002 CH 1902

1009	000011000025	000000000000	777415611170	005220004244	001310000000	000566001572	000212000724	000012000000
1057	343444253722	516000157465	001170000000	000000000000	000000000000	777415611171	005220004244	001310000000
1105	000566001572	000212000724	000012000000	343444277706	516000157466	000071000552	000760000412	000005000000
1153	777415611172	005220004244	000211000002	000566001572	000212402400	000012000000	343444323671	516000157467
1201	000071005743	006241004435	000062000000	777415611173	005220004244	000211000002	000566001572	000212402400
1249	000012000000	343444347655	516000157470	003237000000	000000000000	000000000000	777415611174	005220004244
1297	003357000000	000566001572	000211000724	000012000000	343444373640	516000157471	003237000000	000000000000
1345	000014000000	777415611175	005220004244	003357000000	000566001572	000211000724	000024000000	343444760000
1393	020427675416	017264122323	034706464052	031155165622	030554722037	035116133220	031155165622	026426077050
1441	035106034240	047262322236	042652055753	035032252550	014776302476	017264122330	016617775747	032475526031
1489	016633140225	014676247171	017310075774	000012000000	343444417624	516000157472	002141000322	000744000057
1537	000000000000	777415611176	005220004244	002261000000	000566001572	000211402400	000012000000	343444443607
1585	516000157473	002141000000	000000000001	000000000000	777415611177	005220004244	002261000000	000566001572
1633	000211402400	000012000000	343444467572	516000157474	001045000003	000010000016	000000000001	777415611200
1681	005220004244	001165000005	000566001572	000211000724	000012000000	343444513555	516000157475	001045000000
1729	000001000000	000000000000	777415611201	005220004244	001165000005	000566001572	000211000724	000012000000
1777	343444537541	516000157476	004213000547	001061000365	000007000000	777415611202	005220004244	004333000000
1825	000566001572	000211402400	000012000000	343444563524	516000157477	004213000000	000000000000	000000000000
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FILE 0002 REC 0003 CH 1896

0001	000003000473	000024000000	343445145140	020444033506	017270377230	034716072772	031210227540	030531325751
0049	035103662003	031210227540	024713502650	035074343110	047262311574	042651670037	035032401440	016430436767
0097	017270377237	016617775747	032457344744	016626721410	014721437423	017311527111	000012000000	343444607510
0145	516000157500	003115000000	000000000000	000000000000	777415611204	005220004244	003235000000	000566001572
0193	000134000724	000012000000	343444633473	516000157501	003115000142	000575001613	000017000022	777415611205
0241	005220004244	003235000000	000566001572	000134000724	000012000000	343444657457	516000157502	002021000327
0289	000701000100	000001000002	777415611206	005220004244	002141000000	000566001572	000134402400	000012000000
0337	343444703442	516000157503	002021000107	001327002304	000022000014	777415611207	005220004244	002141000000
0385	000566001572	000134402400	000012000000	343444727426	516000157504	000725000006	000016000012	000000000000
0433	777415611210	005220004244	001045000000	000566001572	000130000724	000012000000	343444753411	516000157505
0481	000725000002	001347000225	000001000037	777415611211	005220004244	001045000000	000566001572	000130000724
0529	000024000000	343445332300	020454721744	017274767357	034725533434	031243416576	030505613011	035071555453
0577	031243416576	024552670166	035063016627	047262301133	042651502143	035032530320	016453215045	017274767366
0625	016617775747	032441637655	016622603760	014742762516	017313176610	000012000000	343444777374	516000157506
0673	004071000647	001162000464	000014000000	777415611212	005220004244	004211000000	000566001572	000130402400
0721	000012000000	343445023357	516000157507	004071000000	000000000000	000000000000	777415611213	005220004244
0769	004211000000	000566001572	000130402400	000012000000	343445047343	516000157510	002775000000	000000000000
0817	000000000000	777415611214	005220004244	003115000000	000566001572	000031000724	000012000000	343445073326
0865	516000157511	002775000124	000720002052	000032000021	777415611215	005220004244	003115000000	000566001572
0913	000031000724	000012000000	343445117312	516000157512	001701000320	000572000101	000002000000	777415611216
0961	005220004244	002023000000	000566001572	000031402400	000012000000	343445143275	516000157513	001701000122
1009	001276002333	000021000004	777415611217	005220004244	002023000000	000566001572	000031402400	000024000000
1057	343445517440	020463407155	017301403445	034735222731	031276721011	030461771147	035057613325	031276721011
1105	024411766320	035051634366	047262270476	042651314226	035032657220	016471371035	017301403452	016617775747
1153	032424607247	016616565535	014762603553	017314656051	000012000000	343445167261	516000157514	000606000004
1201	000012000014	000000000001	777415611220	005220004244	000726000000	000566001572	000051000724	000012000000
1249	343445213244	516000157515	000606000000	000000000000	000000000000	777415611221	005220004244	000726000000
1297	000566001572	000051000724	000012000000	343445237227	516000157516	003751000662	001211000414	000005000000
1345	777415611222	005220004244	004071000000	000566001572	000051402400	000012000000	343445263212	516000157517
1393	003751000000	000000000000	000000000000	777415611223	005220004244	004071000000	000566001572	000051402400
1441	000012000000	343445307176	516000157520	002655000000	000000000000	000000000000	777415611224	005220004244
1489	002775000000	000566001572	000211000724	000024000000	343445704600	020470434771	017306004220	034744736354
1537	031332325232	030436047726	035046010732	031332325232	022522046070	035040611337	047262260043	042651126310
1585	035033006110	016504445707	017306004200	016617775747	032410231024	016612644511	016400426603	017316337453
1633	000012000000	343445333161	516000157521	002655000217	001067001724	000023000032	777415611225	005220004244
1681	002775000000	000566001572	000211000724	000012000000	343445357145	516000157522	001561000312	000735000102
1729	000000000002	777415611226	005220004244	001701000000	000566001572	000212402400	000012000000	343445403130
1777	516000157523	001561000105	001365002321	000021000005	777415611227	005220004244	001701000000	000566001572
1825	000212402400	000012000000	343445427114	516000157524	000466000001	000011000025	000000000000	777415611230
1873	005220004244	000606000005	000566001572	000211000724				

FILE 0002 REC 0004 CH 1896

0001	000004000473	000012000000	343445453077	516000157525	000466000000	000000000000	000000000000	777415611231

FILE 0001 REC 0005 CH 1896

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1105	031034043762	035140421100	036760377672	046563213514	041356755536	012744770476	017261072124	012562735416
1153	032517122655	016621112404	014741467506	017327022411	000012000000	373215364526	516000364030	001252000000
1201	000000000000	000000000000	777416415534	005160004242	001365000005	000566001572	000212001103	000012000000
1249	373215410511	516000364031	001252000000	000000000000	000000000000	777416415535	005160004242	001365000005
1297	000566001572	000212001103	000012000000	373215434475	516000364032	000151000002	000001000005	000000000000
1345	777416415536	005160004242	000264000000	000566001572	000212402400	000012000000	373215460460	516000364033
1393	000151000000	000000000000	000000000000	777416415537	005160004242	000264000000	000566001572	000212402400
1441	000012000000	373215504444	516000364034	003307000001	000010000000	000000000000	777416415540	005160004242
1489	003422000000	000566001572	000212001066	000012000000	373215530427	516000364035	003307000000	000000000000
1537	000000000000	777416415541	005160004242	003422000000	000566001572	000212001066	000024000000	373216105340
1585	017157514556	017263267372	034677063053	031325743463	032402177232	035132371460	031325743463	033366042160
1633	035133536042	036757471221	046563214141	041356762066	014521655671	017263267374	012517511630	032474420423
1681	016616277604	016404337377	017335532106	000012000000	373215554413	516000364036	002207000000	000000000000
1729	000000000000	777416415542	005160004242	002322000000	000566001572	000212402400	000012000000	373215600376
1777	516000364037	002207000000	000000000000	000000000000	777416415543	005160004242	002322000000	000566001572
1825	000212402400	000012000000	373215624361	516000364040	001106000000	000000000000	000000000000	777416415544
1873	005160004242	001221000000	000566001572	000134001066				

FILE 0001 REC 0006 CH 1896

0001	015051000473	000012000000	373215650344	516000364041	001106000000	000001000000	000000000000	777416415545
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0097	000002000002	000001000001	777416415546	005160004242	000120000002	000566001572	000134402400	000024000000
0145	373216272500	017224473032	017266354716	034706362276	031346126063	030747717700	035117720724	031346126063
0193	033336165762	035127025004	036756562341	046563214563	041356766416	014635615105	017266354730	012461701420
0241	032453024705	016613531177	016424056716	017344407707	000012000000	373215720313	516000364043	000005000001
0289	000002000000	000000000000	777416415547	005160004242	000120000002	000566001572	000134402400	000012000000
0337	373215744277	516000364044	003144000002	000014000002	000000000000	777416415550	005160004242	003257000000
0385	000566001572	000130001066	000012000000	373215770262	516000364045	003144000000	000000000000	000000000000
0433	777416415551	005160004242	003257000000	000566001572	000130001066	000012000000	373216014246	516000364046
0481	002043000000	000000000000	000000000000	777416415552	005160004242	002156000000	000566001572	000130402400
0529	000012000000	373216040231	516000364047	002043000000	000000000000	000000000000	777416415553	005160004242
0577	002156000000	000566001572	000130402400	000012000000	373216064214	516000364050	000742000000	000000000000
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0673	017261050656	017272065250	034715717660	031366413452	030713054311	035105417300	031366413452	033306417647
0721	035122461734	036755654025	046563215205	041356772752	014730553217	017272065255	012430565556	032432502420
0769	016611026577	016440604130	017353336404	000012000000	373216110177	516000364051	000742000000	000001000000
0817	000000000000	777416415555	005160004242	001055000000	000566001572	000032001066	000012000000	373216134163
0865	516000364052	004100000003	000003000003	000002000000	777416415556	005160004242	004213000000	000566001572
0913	000032402400	000012000000	373216160146	516000364053	004100000000	000000000000	000000000000	777416415557
0961	005160004242	004213000000	000566001572	000032402400	000012000000	373216204132	516000364054	003000000000
1009	000004000000	000000000000	777416415560	005160004242	003113000000	000566001572	000051001066	000012000000
1057	373216230115	516000364055	003000000000	000000000000	000000000000	777416415561	005160004242	003113000000
1105	000566001572	000051001066	000012000000	373216254101	516000364056	001677000000	000000000000	000000000000
1153	777416415562	005160004242	002012000000	000566001572	000051402400	000024000000	373216645000	017306732647
1201	017276034537	034725310272	027015772144	030656040151	035073262344	027015772144	033256761752	035116260755
1249	036754745207	046563215624	041356777312	016403151054	017276034546	012403261030	032413173365	016606367674
1297	016453121734	017362266567	000012000000	373216300064	516000364057	001677000000	000000000000	000000000000
1345	777416415563	005160004242	002012000000	000566001572	000051402400	000012000000	373216324050	516000364060
1393	000576000000	000000000000	000000000000	777416415564	005160004242	000711000005	000566001572	000212001066
1441	000012000000	373216350033	516000364061	000576000000	000000000000	000001000000	777416415565	005160004242
1489	000711000005	000566001572	000212001066	000012000000	373216374016	516000364062	003735000002	000002000001
1537	000000000000	777416415566	005160004242	004050000005	000566001572	000212402400	000012000000	373216420001
1585	516000364063	003735000000	000003000000	000000000000	777416415567	005160004242	004050000005	000566001572
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1681	005160004242	002747000000	000566001572	000212001066	000024000000	373217032140	017327661136	017302127463
1729	034734731025	027057110402	030620666422	035061267460	027057110402	033227436152	035112216264	036754036371
1777	046563216240	041357003642	016425100561	017302127466	010742110176	030771503326	016603774057	016463645742
1825	017371167266	000012000000	373216467750	516000364065	002634000000	000000000000	000000000000	777416415571
1873	005160004242	002747000000	000566001572	000212001066				

FILE 0001 REC 0007 CH 0918

0001	015052000230	000012000000	373216513734	516000364066	001533000000	000000000000	000000000000	777416415572
0049	005160004242	001646000000	000566001572	000212402400	000012000000	373216537717	516000364067	001533000001

FILE 0001 REC 0007 CH 0918

0097	000001000020	053020000000	763416415573	005160004242	001646000000	000566001572	000212402400	000012000000
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0193	000566001572	000212005000	000012000000	373216607666	510000364071	777777377777	377777377777	377777377777
0241	000056415575	777777777777	777777777777	000566001572	000212005000	000024000000	373217217300	017345077150
0289	017306266202	034744377134	027120366177	030563371602	035047434243	027120366177	033200226037	035106306376
0337	036753130037	046563216651	041357010210	016443320142	017306266205	010702622650	030736457271	016601442630
0385	016473105146	015000040364	000012000000	373216703620	516000364074	002470000002	000007000001	000001000000
0433	777416415600	005160004242	002603000005	000273001572	000212001066	000012000000	373216727603	516000364075
0481	002470000000	000000000000	000001000000	777416415601	005160004242	002603000005	000273001572	000212001066
0529	000012000000	373216753567	516000364076	001367000000	000000000000	000000000000	777436415602	005160004242
0577	001502000000	000566001572	000212402400	000012000000	373216777552	516000364077	001367000000	000000000000
0625	000000000000	776436415603	005160004242	001502000000	000566001572	000212402400	000012000000	373217023621
0673	522000364340	000266000000	000000000000	000211000140	252536415604	005160004242	000401000000	000566001572
0721	000134001066	000024000000	373217404440	017357542170	017312432321	034754070233	027161770241	030525763357
0769	035035736104	027161770241	033151132573	035102525721	036752221125	046563217263	041357014552	016456764531
0817	017312432323	010647562531	030705201206	016577153217	016501301414	015015356262	000012000000	373217047604
0865	522000364341	000266126000	130051044571	000015000000	252436415605	005160004242	000401000000	000566001572
0913	000134001066							