

#318

PIONEER 10
ENCOUNTER DATA SUMMARY AND ANALYSIS
INTERPLANETARY SUMMARY DATA
72-012A-05A, B, C

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 This inventory information is now no longer maintained in the DSCs, but is now managed in the inventory part of the NSSDC information system.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

PIONEER 10
Encounter Data Summary Tapes
72-012A-05A

PSFP-00202

This data set has been restored. The original tapes were 556 BPI, binary, 7-track. The DS tape is 9-track, 6250 BPI, binary containing 6 files. The DR tape is a 3480 cartridge.

The DR, DS, and DD numbers along with the time spans are:

DR#	DS#	DD#	FILES	TIME SPAN
DR02870	DS02870	D-20555	1	11/25/73 - 11/29/73
		D-20552	2	11/29/73 - 12/03/73
		D-20553	3	12/03/73 - 12/07/73
		D-20556	4	12/07/73 - 12/11/73
		D-20551	5	12/11/73 - 12/15/73
		D-20554	6	12/15/73 - 12/19/73

PIONEER 10
Encounter Data Analysis Tape
72-012A-05B

PSFP-00201

This data set has been restored. The original tape was 7-track, 556 BPI, BCD, containing 12 files. The DS tape is 9-track, 6250 BPI, EBCDIC, containing 12 files. The DR tape is a 3480 cartridge.

The DR, DS, and DD numbers along with the time spans are:

DR#	DS#	DD#	FILES	TIME SPAN
DR02935	DS02935	D-20557	1-12	12/03/73 - 12/04/73

PIONEER 10
Interplanetary Data Summary Tapes
72-012A-05C

SPHE-00710

This data set has been restored. It has been written onto the same DR and DS tape as 72-012A-05B. The original tapes were 7-track, 556 BPI, binary. The DS tape is 9-track, 6250 BPI, binary, containing 3 files (files 13-15). The DR tape is a 3480 cartridge.

The DR, DS, and DD numbers along with the time spans are:

DR#	DS#	DD#	FILES	TIME SPAN
DR02935	DS02935	D-31853	13	03/03/72 - 12/03/73
		D-31854	14	12/04/73 - 06/29/76
		D-31855	15	07/01/76 - 05/30/77

REQ. AGENT

ROP

CMP

VJP

RAND NO.

RC4166

RC9091

RC1609

ACQ. AGENT

LRD

RWV

PIONEER 10

ENCOUNTER DATA SUMMARY AND ANALYSIS

INTERPLANETARY DATA SUMMARY TAPE

This data set catalog consists of 6 Encounter Data Summary, 1 Encounter Analysis tape and 3 Interplanetary Data Summary Tapes. The Summary tapes are 556 BPI, Binary, 7-track and contains 1 file of data. The Analysis tape is 556 BPI, BCD, 7-track and contains 12 files of data. The tapes were created on an CDC 3600 computer. The D and C numbers along with the time spans are as follows:

72-012A-05A

<u>D#</u>	<u>C#</u>	<u>TIME SPAN</u>
D-20551	C-16423	12/11/73 - 12/15/73
D-20552	C-16424	11/29/73 - 12/03/73
D-20553	C-16425	12/03/73 - 12/07/73
D-20554	C-16426	12/15/73 - 12/19/73
D-20555	C-16427	11/25/73 - 12/11/73 11/29/73
D-20556	C-16428	12/07/73 - 12/11/73

72-012A-05B

			<u>FILES</u>
D-20557	C-16429	12/03/73 - 12/04/73	12

72-012A-05C

D-31853	C-19809	03/03/72 - 12/03/73
D-31854	C-20400	12/04/73 - 06/29/76
D-31855	C-20401	07/01/76 - 05/30/77

4.1.2 UCSD/TRD Pioneer Summary Tape Format

Pioneer summary tapes are single-file, multi-record tapes, written in odd parity on the CDC 3600. Each 300 word record contains one complete data summary, along with associated information. All numbers are written on the tape as positive binary integers. The tape format is as follows:
(tapes are 7-track, 556 bpi, 48 bit words)

Word Number	Name	Definition	Bias, Value or Units
1	SAT	Satellite Number	10 or 11
2	NFMODE	Mode of reduction: Earth traversal, Cruise or Jupiter Encounter	1-3
3	ISTART	Start time of summary	Cole time (ms) = 43,200,000 for Jan 1, 1972, 1200
4	ISTOP	Stop time of summary	Cole time (ms)
5	IDAY	Day of year	
6	IYR	4 digit year	
7	IDRTAP	5 digit name of EDR tape which produced the summary	
8	BRTAP	5 digit name of binary reduction tape associated with the summary	
9	IFF	1 digit code for data format, 1 = A, 2 = A/D, 3 = B, 4 = B/D	
10	IB	1 digit code for bit rate	1-8 $[2^4, 2^5 \dots 2^{11}]$ (bits/sec)
11	IBR(IB)	Bit rate as defined by IB	16-2048
12	<u>RTLT</u>	Round trip Light Time (for ISTART)	milliseconds
13	ICOMAL	Number of commutate alarms; currently unused (-2)	
14-16	PMIN(I), I=1,3	Minimum Pulse Temp., High Voltage Regulator current & Detector C Temp., respectively	PMIN(I)*1.E6+1.E8
17-19	PMAX(I), I=1,3	Maximum values of the above parameters	PMAX(I)*1.E6+1.E8
20-22	PAVE(I), I=1,3	Average values of the above I=2 not currently used.	PAVE(I)*1.E6+1.E8

PULSE DATA

Each parameter for pulse data can be sorted into one of 21 bins, depending on detector ID and high voltage status. Bins are labeled as follows:

I	Detector	I	Detector
1	C1	12	E3U
2	C2	13	M1H
3	C3	14	M2H
4	E1H	15	M3H
5	E2H	16	M1L
6	E3H	17	M2L
7	E1L	18	M3L
8	E2L	19	M1U
9	E3L	20	M2U
10	E1U	21	M3U
11	E2U		

Word Number	Name	Definition*	Bias
23-43	AVG(I)	Average number of counts/ reading	AVG(I)*1.E6
44-64	RMS(I)	RMS Deviation	RMS(I)*1.E6
65-85	RESMAX(I)	Maximum Residue	RESMAX(I)*1.E6+1.E8
86-106	RESMIN(I)	Minimum Residue	RESMIN(I)*1.E6+1.E8
107-127	NREAD(I)	Number of readings	None
128-148	NCOUNT(I)	Total counts	None
149-169	TOTIME(I)	Total time, in seconds	TOTIME*1.E6
170-190	AVGCR(I)	Average number of counts/ second	AVGCR(I)*1.E6
191-211	PROBER(I)	Probable Error (Counts/Second)	PROBER(I)*1.E10

* More extensive definitions are given at the end

ELECTROMETER DATA

Each parameter for electrometer data can be sorted into one of 6 bins, depending on detector ID. Bins are labeled as follows:

I	Detector
1	CDC
2	SEDC
3	SPDC
4	CAL1
5	CAL2
6	CAL3

Word Number	Name	Definition	Bias
212-217	AVG(I)	Average reading	$AVG(I) * 1.E6$
218-223	RMS(I)	RMS Deviation(current)	$RMS(I) * 1.E18$
224-229	RESMAX(I)	Maximum Residue(current)	$RESMAX(I) * 1.E6 + 1.E8$
230-235	RESMIN(I)	Minimum Residue(current)	$RESMIN(I) * 1.E6 + 1.E8$
236-241	AVGA(I)	Average Current	$AVGA(I) * 1.E18$
242-247	EMAX(I)	Maximum Current	$EMAX(I) * 1.E18$
248-253	EMIN(I)	Minimum Current	$EMIN(I) * 1.E18$
254-259	MREAD(I)	Number of readings	None

48

TRAJECTORY DATA
Earth Traversal (NFMOD = 1)

Definitions are given alphabetically at the end

WORD NUMBER		NAME
ISTART	ISTOP	
260	275	ATQCLT
261	276	ATQLONG
262	277	RADPE
263	278	CLTPEE
264	279	ALGPEE
265	280	TLCPEE
265-270 and 281-300		_____ (SPARE)

TRAJECTORY DATA
Cruise (NFMOD = 2)

WORD NUMBER		NAME
ISTART	ISTOP	
260	275	ATCCLT
261	276	ATCLONG
262	277	RADPS
263	278	CLTPSC
264	279	ALGPSC
265	280	RADES
266	281	CLTESC
267	282	ALGESC
268	283	RADJS
269	284	CLTJSC
270	285	ALGJSC
286 - 300		____ (SPARE)

TRAJECTORY DATA
Jupiter Encounter (NFMOD = 3)

WORD NUMBER		NAME
ISTART	ISTOP	
260	275	ATCCLT
261	276	ATCLONG
262	277	RADPJ
263	278	CLTPJJ
264	279	ALGPJJ1R
265	280	TLCPJJ
266	281	RADPJM
267	282	CLTPJM
268	283	TLCPJM
269	284	B
270	285	EL
286	287	ALGPJJ3L
288-300		_____ (SPARE)

Word 274 is RTLT corresponding to ISTOP

RESTART DATA

This information is written on the summary tape in order to provide the information necessary to restart the Pioneer data reduction program following any summary.

271	IREC	Physical record number in File 4 of EDR tape at ISTOP
272	NREC	Logical record number on binary reduction tape at ISTOP
273	ISREC	Physical record number on summary tape
274-300	---	Spare

OUTPUT FUNCTION DEFINITIONS

FUNCTION NAME	SYMBOL OR EQUATION	PRINTOUT ACCURACY	PRINTOUT RANGE
Average Count	$\overline{j^C}$	0.1%	10^{-4} to 10^{+9}
RMS Deviation	$j^\sigma = \sqrt{j^{\overline{C^2}} - (\overline{j^C})^2}$	0.1%	10^{-3} to 10^{+5}
Maximum Residue	$\frac{j^C \text{ max} - \overline{j^C}}{j^\sigma}$	1.0%	-99 to +99
Minimum Residue	$\frac{j^C \text{ min} - \overline{j^C}}{j^\sigma}$	1.0%	-99 to +99
Number of Readings	j^N	Exact integer	0 to 99999
Total Counts	$\sum_{i=1}^{j^N} j_i^C$	0.1%	0 to 10^9
Total Time, Sec.	$\sum_{i=1}^{j^N} j_i^t$	$\frac{1}{2}$ sec.	0 to 99999.9
Average Count Rate, c/s	$\frac{\overline{CR}}{j}$	0.1%	10^{-4} to 10^{+7}
Probable Error, c/s	$\pm .6745 \sqrt{\Sigma j^C} / \Sigma t_i$	0.1%	10^{-4} to 10^{+4}

ME

ALGESC	Traversal	Longitude	Earth	Sun	Ecliptic	-
ALGJSC	Cruise	"	Jupiter	Sun	"	Micro-radians
ALGPEE	Traversal	"	Pioneer S/C	Earth	Equator	"
ALGPJJLR	Encounter	"	"	Jupiter	"	"
ALGPJJ3L	"	"	"	"	"	"
ALGPSC	Cruise	"	"	Sun	Ecliptic	"
ATCCLT	"	Colatitude	Spin Axis	Pioneer S/C	"	"
ATCCLT	Encounter	"	"	"	"	"
ATCLONG	Cruise	Longitude	"	"	"	"
ATCLONG	Encounter	"	"	"	"	"
ATQCLT	Traversal	Colatitude	"	"	E.Equator	"
ATQLONG	"	Longitude	"	"	"	"
B	Encounter	Magnetic Field	D2 Model(JGR 79, 3501, 1974)			Micro-gauss
CLTESC	Cruise	Colatitude	Earth	Sun	Ecliptic	Micro-radians
CLTJSC	"	"	Jupiter	Sun	"	"
CLTPEE	Traversal	"	Pioneer S/C	Earth	Equator	"
CLTPJJ	Encounter	"	"	Jupiter	"	"
CLTPJM	"	"	"	"	Mag.Equator	"
CLTPSC	Cruise	"	"	Sun	Ecliptic	"
EL	Encounter	L value - D2 Model(JGR 79, 3501, 1974)				Micro-radii
RADES	Cruise	Radius	Earth	Sun		Micro-AU
RADJS	"	"	Jupiter	Sun		"
RADPE	Traversal	"	Pioneer S/C	Earth		Micro-RE
RADPJ	Encounter	"	"	Jupiter		Micro-RJ
RADPJM	"	"	"	"	Mag.Equator	"
RADPS	Cruise	"	"	Sun		"
TLCPEE	Traversal	Local Time	"	Earth	Equator	Micro-hour
TLCPJJ	Encounter	"	"	Jupiter	"	"
TLCPJM	"	"	"	"	Mag.Equator	"

4.2 UCSD/TRD PIONEER 10 ANALYSIS TAPES

4.2.1 Analysis Tape Format

TAPE ID - M47200

7 Tracks-even parity, 556 bpi

120 BCD characters per record (standard output tape)

CHARACTER	CORRESPONDING DATA	FORMAT	INTERPRETATION
1	----	IX	Blank space
2 - 3	IDA	I2	Detector Identification ¹
4 - 13	T(JC)	F10.5	Time in days + fraction 12:00 Jan. 1, 1972 = Day 1.5
14 - 23	CA(1) ²	E10.3	Average counting rate D.C. Term ²
24 - 33	CA(2) ²	E10.3	Coefficient of SIN term of first harmonic ²
34 - 43	CA(3) ²	E10.3	Coefficient of COS term of first harmonic ²
44 - 53	CA(4) ²	E10.3	Coefficient of SIN term of second harmonic ²
54 - 63	CA(5) ²	E10.3	Coefficient of COS term of second harmonic ²
64 - 73	CA(6) ²	E10.3	Coefficient of SIN term of fourth harmonic ²
74 - 83	CA(7) ²	E10.3	Coefficient of COS term of fourth harmonic ²
84 - 92	CA(8) ²	E9.2	Coefficient of TIME term ²
93 - 101	CA(9) ²	E9.2	Coefficient of TIME squared term ²
102 - 107	ERA	2PF6.1	RMS error ³
108 - 110	NDAT	OP13	Number of data points per fit ⁽⁴⁾
111 - 113	NCOMCY	I3	Number of commutation cycles per fit
114 - 119	TW	5PF6	Full width of triangular weight function in days
120	"3"	1H3	Third generation of program

4.2.2 Analysis Tape Notes

TAPE ID - M47200

1. The twelve files are in the following order:

FILE NUMBER	TRD CHANNEL	DETECTOR IDENTIFICATION	TIME INTERVAL IN COLE DAYS + FRACTION
1	M1	1	703.716-704.532
2	M2	2	703.810-704.466
3	M3	3	703.856-704.370
4	E1 (5)	4	702.774-705.950
5	E2	5	702.774-704.608
6	E3	6	702.773-704.600
7	C1	7	702.774-704.615
8	C2	8	702.774-704.590
9	C3	9	703.348-704.533
10	E1 - 2.6M1	4	703.716-704.532
11	E2 - 2.12M1	5	703.716-704.532
12	E3 - 1.12M1	6	703.716-704.532

2. The coefficients are connected to the data as follows:

$$\begin{aligned} \text{Dead time corrected counting rate at time (T)} = & \text{CA}(1) + \text{CA}(2) \sin \theta + \text{CA}(3) \cos \theta \\ & + \text{CA}(4) \sin 2\theta + \text{CA}(5) \cos 2\theta + \text{CA}(6) \sin 4\theta + \text{CA}(7) \cos 4\theta \\ & + \text{CA}(8) (T-CT) + \text{CA}(9) (T-CT)^2 + \text{error} \end{aligned}$$

Where θ = azimuthal angle with respect to the closest approach to the direction of B.

And T = time in days + fraction, C T = time at which coefficients were calculated in cole days + fraction.

Day 703 on the Cole Calendar is December 3, 1973.

3. RMS error of square fit function with respect to data points.
4. Where data gaps exist, the number of data points per fit is reduced, resulting in a larger RMS error.
5. 2660 counts subtracted inbound, 3090 outbound, from channel E1 to account for power supply noise.

FILE 0001 REC 0001 CH 2400

m 44904

D-20551

12/11/93

-12/15/73

FILE 0001 REC 0002 CH 2400

FILE 0001 REC 0002 CH 2400

D-20557 12/01/73-12/05/73

1	703.71636	1.056E	02-3.244E-01	1.041E	0C-4.C82E	00	3.987E	00	1.076E	00	7.625E-01	5.52E	02-9.38E	0	REC	1.	LENGTH	120				
4	10.3	25	13	16253																		
1	703.71761	1.049E	02	7.793E-01	1.651E	0C-2.318E	00	2.643E	CC	1.935E	00	2.818E-01	6.77E	02	3.83E	0	REC	2.	LENGTH	120		
4	10.7	26	13	16253																		
1	703.71886	1.055E	02	1.915E	00	2.542E	0C-1.603E	00	2.319E	CC	2.804E	00-4.188E-01	1.00E	03	8.06E	0	REC	3.	LENGTH	120		
4	10.7	26	13	16253																		
1	703.72011	1.071E	02	2.767E	00	3.317E	0C-1.205E	00	2.034E	00	3.649E	00-2.296E-01	1.31E	03	8.84E	0	REC	4.	LENGTH	120		
4	10.1	26	13	16253																		
1	703.72136	1.086E	02	3.225E	00	3.969E	0C-1.090E	00	2.316E	00	3.986E	00	2.299E-01	1.53E	03	1.20E	0	REC	5.	LENGTH	120	
5	9.6	25	13	16253																		
1	703.72261	1.105E	02	3.469E	00	4.365E	0C	3.580E-01	2.472E	00	3.935E	00	2.587E-01	1.54E	03	5.57E	0	REC	6.	LENGTH	120	
4	8.8	25	13	16253																		
1	703.72386	1.137E	02	3.329E	00	4.279E	0C	5.329E-01	1.835E	00	3.888E	00	1.153E	00	1.62E	03	3.63E	0	REC	7.	LENGTH	120
4	8.3	25	13	16253																		
1	703.72511	1.171E	02	3.075E	00	3.855E	0C	4.827E-02	5.567E-01	4.412E	00	1.996E	00	1.71E	03	5.07E	0	REC	8.	LENGTH	120	
4	7.9	25	13	16253																		
1	703.72636	1.194E	02	2.122E	00	3.967E	0C-1.555E-01	8.194E-01	3.781E	00	1.874E	00	1.55E	C3-7.02E	0	REC	9.	LENGTH	120			
4	7.2	25	13	16253																		
1	703.72761	1.215E	02	1.188E	00	4.379E	0C-2.850E-01	1.555E	CC	3.225E	00	1.380E	00	1.42E	03	5.55E	0	REC	10.	LENGTH	120	
4	6.5	25	13	16253																		
1	703.72886	1.234E	02	6.842E-01	4.727E	00-5.085E-02	2.416E	00	2.977E	00	7.361E-01	1.29E	03	1.25E	0	REC	11.	LENGTH	120			
5	6.0	25	13	16253																		
1	703.73011	1.231E	02	8.944E-01	4.858E	0C-1.342E	CC	1.524E-01	2.142E	00	4.150E-03	1.13E	03	3.65E	0	REC	12.	LENGTH	120			
4	5.7	25	13	16253																		
1	703.73136	1.241E	02	1.139E	00	5.160E	0C-2.237E	00-1.141E-01	1.709E	00-3.476E-01	1.18E	03	8.56E	0	REC	13.	LENGTH	120				
4	5.5	25	13	16253																		
1	703.73261	1.270E	02	1.191E	00	5.730E	0C-6.760E-01	5.743E-01	1.105E	00-1.075E	00	1.35E	03	2.06E								

	1.	LENGTH	REC
6 704.52217 2.170E 04 4.786E 01-8.601E 01 3.855E 01 1.543E 03-3.596E 00-4.988E 02-2.42E 05-5.13E 0	7 18 3	3753	

7 7 .7 18 3 3753

6	704.52342	2.133E	04	4.236E	01-6.513E	01	2.230E	01	1.552E	03-2.125E	01-4.298E	02-4.21E	05-9.71E	0	REC	2,	LENGTH	120
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7	.5	18	3	3753
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6	704.52467	2.065E	04-1.440E	01	1.137E	01	2.964E	01	1.542E	03-7.866E	01-4.414E	02-6.62E	05-8.62E	0	REC	3,	LENGTH	120
---	-----------	--------	-----------	----	--------	----	--------	----	--------	-----------	-----------	----------	----------	---	-----	----	--------	-----

7	.6	18	3	3753
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[illegible]

8	.6	18	3	3753
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6	704.52717	1.939E	04-7-787E	01	8.646E	00	1.554E	01	1.280E	03-1.533E	00-4.079E	02-5.21E	05-1.88E	0	REC	5.	LENGTH	120
---	-----------	--------	-----------	----	--------	----	--------	----	--------	-----------	-----------	----------	----------	---	-----	----	--------	-----

8	1.2	18	3	3753
---	-----	----	---	------

6	704.52842	1.855E	04-2.739E	01-1.939E	01	4.370E	01	9.436E	02-6.414E	01-3.064E	02-4.83E	05	1.76E	0	REC	6.	LENGTH	120
---	-----------	--------	-----------	-----------	----	--------	----	--------	-----------	-----------	----------	----	-------	---	-----	----	--------	-----

8	1.3	18	3	3753
---	-----	----	---	------

6	704.52967	1.820E	04	4.250E	01-2.389E	01-1.177E	C1	7.668E	02-8.668E	01-3.757E	02-4.42E	05-8.03E	0	REC	7.	LENGTH	120
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7	0718	3	3753
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6	704-53092	1-745F	04-5-901F	01	1-016F	02-1-807F	01	5-911F	02	2-748F	01-4-207E	02-4-98E	05	1-08E	0	REC	8.	LENGTH	120
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0	104.000	107405
8	1.218	3753

	REC	0	1	2	3	4	5	6	7	8	9	LENGTH
6	05-1	0	0	0	0	0	0	0	0	0	0	120
7	05-1	0	0	0	0	0	0	0	0	0	0	120
8	05-1	0	0	0	0	0	0	0	0	0	0	120
9	05-1	0	0	0	0	0	0	0	0	0	0	120
10	05-1	0	0	0	0	0	0	0	0	0	0	120
11	05-1	0	0	0	0	0	0	0	0	0	0	120
12	05-1	0	0	0	0	0	0	0	0	0	0	120
13	05-1	0	0	0	0	0	0	0	0	0	0	120
14	05-1	0	0	0	0	0	0	0	0	0	0	120
15	05-1	0	0	0	0	0	0	0	0	0	0	120
16	05-1	0	0	0	0	0	0	0	0	0	0	120
17	05-1	0	0	0	0	0	0	0	0	0	0	120
18	05-1	0	0	0	0	0	0	0	0	0	0	120
19	05-1	0	0	0	0	0	0	0	0	0	0	120
20	05-1	0	0	0	0	0	0	0	0	0	0	120
21	05-1	0	0	0	0	0	0	0	0	0	0	120
22	05-1	0	0	0	0	0	0	0	0	0	0	120
23	05-1	0	0	0	0	0	0	0	0	0	0	120
24	05-1	0	0	0	0	0	0	0	0	0	0	120
25	05-1	0	0	0	0	0	0	0	0	0	0	120
26	05-1	0	0	0	0	0	0	0	0	0	0	120
27	05-1	0	0	0	0	0	0	0	0	0	0	120
28	05-1	0	0	0	0	0	0	0	0	0	0	120
29	05-1	0	0	0	0	0	0	0	0	0	0	120
30	05-1	0	0	0	0	0	0	0	0	0	0	120
31	05-1	0	0	0	0	0	0	0	0	0	0	120
32	05-1	0	0	0	0	0	0	0	0	0	0	120
33	05-1	0	0	0	0	0	0	0	0	0	0	120
34	05-1	0	0	0	0	0	0	0	0	0	0	120
35	05-1	0	0	0	0	0	0	0	0	0	0	120
36	05-1	0	0	0	0	0	0	0	0	0	0	120
37	05-1	0	0	0	0	0	0	0	0	0	0	120
38	05-1	0	0	0	0	0	0	0	0	0	0	120
39	05-1	0	0	0	0	0	0	0	0	0	0	120
40	05-1	0	0	0	0	0	0	0	0	0	0	120
41	05-1	0	0	0	0	0	0	0	0	0	0	120
42	05-1	0	0	0	0	0	0	0	0	0	0	120
43	05-1	0	0	0	0	0	0	0	0	0	0	120
44	05-1	0	0	0	0	0	0	0	0	0	0	120
45	05-1	0	0	0	0	0	0	0	0	0	0	120
46	05-1	0	0	0	0	0	0	0	0	0	0	120
47	05-1	0	0	0	0	0	0	0	0	0	0	120
48	05-1	0	0	0	0	0	0	0	0	0	0	120
49	05-1	0	0	0	0							

0	704.33217	1.0886
9	1.7 18	3 3753

[illegible]

0	04.33342	1.387E
0	0 10 3	37E3

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