

#371

SERIAL BIT STREAM DIGITAL TAPE

FORMAT FOR THE ASTP MISSION

75-066A-00F



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 This inventory information is now no longer maintained in the DSCs, but is now managed in the inventory part of the NSSDC information system.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

REQ. AGENT
CAW

ACQ. AGENT
RNH

SERIAL BIT STREAM DIGITAL TAPE

FORMAT FOR THE ASTP MISSION

75-066A-00F

XXNO-00206

THESE TAPES CAN BE FOUND AT THE WNRC IN WASH., DC.

75-00000-007
NSSDC
CODE
JSC-10831 601.1

Acquisition
Scientist:
Richard Horowitz

JSC INTERNAL NOTE

IDSD #75-FD-005

SERIAL BIT STREAM DIGITAL TAPE
FORMAT FOR THE ASTP MISSION

PREPARED BY
APPLICATIONS PROGRAMING SECTION
OF THE
DATA PROCESSING BRANCH
INSTITUTIONAL DATA SYSTEMS DIVISION

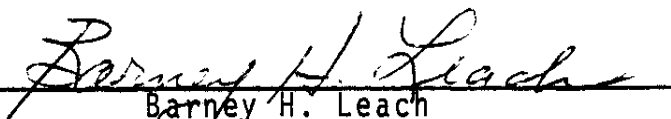


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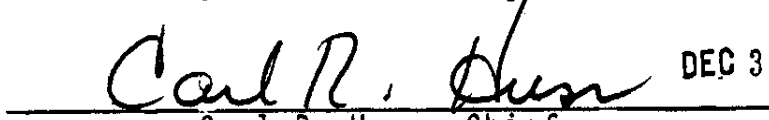
SERIAL BIT STREAM DIGITAL TAPE
FORMAT FOR THE ASTP MISSION

PREPARED BY


Barney H. Leach

APPROVED BY


Fred Fulton
Chief, Data Processing Branch


Carl R. Huss, Chief
Institutional Data Systems Division

DEC 30 1975

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ABBREVIATIONS AND ACRONYMS

ASTP	Apollo/Soyuz Test Project
BPI	Bits per inch
GMT	Greenwich Mean Time
HBR	High bit rate
ID	Identification
IDSD	Institutional Data Systems Division
JSC	Johnson Space Center
KB	Kilobits
KBPS	Kilobits per second
LBR	Low bit rate
LSB	Least significant bit
MSB	Most significant bit
PCM	Pulse code modulation
SBS	Serial Bit Stream

1.0 INTRODUCTION

The overall purpose, scope and organization of the Serial Bit Stream Digital Tape Format for the ASTP Mission are defined in this section. The Serial Bit Stream (SBS) tape is an intermediate digital tape used in the processing of ASTP science data. The tape contains the PCM data in raw form as formatted from range analog tapes.

1.1 PURPOSE

This document describes the overall SBS file formats and data layouts for each of the three data streams (51.2, 1.6, and 4 KBPS) used on ASTP. Only the ASTP SBS formats are described.

1.2 SCOPE

The intended extent of the SBS tape format description in this document is as follows:

- . Overall tape format description.
- . Descriptor file description.
- . Overall data file description.
- . Data file description for each ASTP data rate.

1.3 DOCUMENT ORGANIZATION

This document is divided into two main sections as follows:

- . Section 1.0: Introduction - describes purpose, scope and organization.
- . Section 2.0: ASTP Serial Bit Stream (SBS) Digital Tape Description - describes tape format and data stream layout in detail.

2.0 ASTP SERIAL BIT STREAM (SBS) DIGITAL TAPE FORMAT

The JSC Institutional Data Systems Division (IDSD) Serial Bit Stream (SBS) format is a general purpose describable data format. A SBS tape contains a data descriptor file and a data file; however, the descriptor file is omitted from continuation reels.

The descriptor file contains descriptive information used by the IDSD retrieval software and related applications software. It is followed by an end-of-file mark and then the data file. The data file contains the raw PCM data, associated times, and sync status information.

The tapes are written at 800 BPI and in the binary mode. Words, fields, or bits designated as unused should not be assumed to be zero or any certain value.

2.1 DATA DESCRIPTOR FILE

The descriptor file contains descriptive information used by the JSC IDSD retrieval software to retrieve data from the data file. The current descriptor file evolved during project Apollo when numerous applications warranted development of a common retrieval system. This software and the SBS format were maintained throughout Skylab and ASTP in support of continuous requirements for these applications.

This file may not be economically adaptable for single purpose or limited use applications. Users who do not have access to the IDSD retrieval software or whose application does not require a complex retrieval system are advised to ignore the descriptor file and retrieve directly from the data file.

RECORD #1 - The first data descriptor record contains 648 12-bit bytes of descriptor information as follows:

<u>BYTE NO.</u>	<u>CONTENTS</u>
1-4	Eight character (BCD) identifier "DESCRIPT"
5	Month (01-12) in BCD
6	Year (75) in BCD
7-8	Mission number in BCD (24 bits)
9	Integer format number
10-12	Descriptor identifier (BCD)
13	Number of prime frames per record in block 1
14-16	Same as byte 13 but for blocks 2, 3, and 4 (only block 1 is used for ASTP)
17	Number of time slots (PCM words) per frame in block 1
18-20	Same as byte 17 but for blocks 2, 3, and 4
21	Number of 12-bit bytes of storage required per prime frame in block 1
22-24	Same as byte 21 but for blocks 2, 3, and 4
25	Byte address of beginning of first prime frame (block 1)
26-28	Same as byte 25 but for blocks 2, 3, and 4
29	Number of bits per word for block 1
30-32	Same as byte 29 but for block 2, 3, and 4
33-34	Bit rate in bits per second for block 1
35-40	Same as bytes 33 and 34 but for blocks 2, 3, and 4
41-42	Number of 12-bit bytes per record
43-44	Number of header entries
45-46	Integer part of prime frame rate in revolutions per second (block 1)
47-48	Fractional part of prime frame rate in revolutions per second (block 1)
49-60	Same as bytes 45-48 but for blocks 2, 3, and 4
61-64	BCD name of first header entry, left justified in 48-bit field. (Maximum 49 entries.)

<u>BYTE NO.</u>	<u>CONTENTS</u>
65	Unused
66	Byte address relative to beginning of data record.
67	Maximum index value
68	Index increment to next prime frame in which measurement occurs.
69	Number of bits/word and LSB locator as follows: a. Bits 1-6: number of bits per data sample b. Bits 7-12: location of least significant bit (LSB) The right most bit in the data field is designated as bit zero.
70	Number of fields in sample block
71	Number of bits in a data field and data block number a. Bits 1-6: Number of bits required to define a data field (multiple of 12 bits) b. Bits 7-12: Corresponding data block number
72	Sync table entry index a. Bits 1-6: Unused b. Bits 7-12: Sync table entry index NOTE: Bytes 61-72 correspond to first of a maximum of 49 header entries
73-84	Same information as in bytes 61-72 but for second header entry
.	.
.	.
.	.
637-648	Same information as in bytes 61-72 but for 49th (last) header entry.

RECORD #2 - LAST - Records 2 through last contain descriptor information pertaining to data entries in the data file. Each record consists of 4032 12-bit bytes of information as follows:

<u>BYTE NO.</u>	<u>CONTENTS</u>
1-4	BCD name of measurement entry (maximum of 8 characters per name)
5	Prime frame pin number (PCM word number) from which the measurement came
6	Byte position of first data field for this prime frame.
7	Index number for the first prime frame in which the measurement occurs.
8	Index increment to next prime frame in which the measurement occurs.
9	Number of bits per sample and LSB locator as follows: a. Bits 1-6: number of bits per sample b. Bits 7-12: Location of LSB in data sample (Right most bit in the data field is referenced zero.)
10	Number of data fields stored in the sample block.
11	Number of bits in data field and header block entry as follows: a. Bits 1-6: Number of bits required to define a data field (multiples of 12 bits) b. Bits 7-12: Corresponding data block number.
12	Locator for index and sync tables as follows: a. Bits 1-6: Locator for index table to which the measurement refers.... (Subcommutated data only.) b. Bits 7-12: Locator for sync table to which the measurement refers.

NOTE: Bytes 1-12 correspond to the first of a maximum of 336 measurement entries.

13-24 Same information as in bytes 1-12 but for second measurement entry.

.
.
.

421-432 Same information as in bytes 1-12 but for 336th (last) measurement entry.

Additional records may follow as necessary. An end-of-file mark follows the last descriptor record. The descriptor file is followed by the data file.

2.2 DATA FILE

The data file contains the raw telemetered data in PCM counts, associated times, and sync status information. The record content and size varies depending upon the data rate and mission. Record formats described in this section are for 51.2 KBPS (HBR), 1.6 KBPS (LBR), and 4 KBPS data and for ASTP only.

Data quality may be determined by checking the frame sync and time sync statuses. See tables 2-2 and 2-3 for sync status code assignments. Words, fields and bits designated as unused should not be assumed to contain zero as any certain value. All data quantities are binary integer unless specified otherwise. Bit numbering is from left to right with the smallest numbered bit of a field, byte, or word being the most significant bit.

2.2.1 High Bit Rate (51.2 KBPS) - Each HBR data file record consists of 34 data frames stored in 786 48-bit words. Word contents and description are as follows:

<u>WORD</u>	<u>CONTENT</u>
1	Day and year of mission (BCD) a. Bits 1-24: Day of year b. Bits 25-48: Year of mission
2	Data Identification Codes a. Bits 1-24: Tape record number b. Bits 25-30: Batch number c. Bits 31-36: Formal ID (Bit rate code) 0 = LBR (1.6 KBPS) 1 = 4 KBPS 2 = HBR (51.2 KBPS) d. Bits 37-42: Data type 0 = Real time 1 = dump e. Bits 43-48: Site ID (see table 2-1) NOTE: Tape record number and batch number are used in preprocessing only and are meaningless past that point.
3-36	Frame time (GMT) in integer milliseconds as follows:
	<u>WORD</u> <u>DESCRIPTION</u>
3	Time of 1st frame in record
4	Time of 2nd frame in record
.	.
.	.
.	.
35	Time of 33rd frame
36	Time of 34th frame
37-70	Sync Statuses (See tables 2-2 and 2-3)
	<u>Word</u> <u>Description</u>
37	Sync statuses for 1st frame a. Bits 1-3: Time sync status b. Bits 4-6: Main frame sync status c. Bits 7-9: Subframe sync status

<u>Word</u>	<u>Description</u>
	d. Bits 10-15: INDEX1 (Generated frame counter)
	e. Bit 16: unused
	f. Bits 17-24: Sync word 4 (frame counter)
	g. Bits 25-32: Sync word 1
	h. Bits 33-40: Sync word 2
	i. Bits 41-48: Sync word 3
38	Sync statuses for 2nd frame
.	.
.	.
.	.
69	Sync statuses for 33rd frame
70	Sync statuses for 34th frame
71-91	Main frame words 5-128 for 1st frame
NOTE: The 8-bit main frame words are stored in ascending order, six to a 48-bit word unless specified otherwise (see description of word 71 below)	
<u>Word</u>	<u>Description</u>
71	Main frame words 5-10
	a. Bits 1-8 (field 1): Main frame word 5
	b. Bits 9-16 (field 2): " " " 6
	c. Bits 17-24 (field 3): " " " 7
	d. Bits 25-32(field 4): " " " 8
	e. Bits 33-40 (field 5): " " " 9
	f. Bit 41-48 (field 6): " " " 10
72	Main frame words 11-16
73	Main frame words 17-22
74	Main frame words 23-28
75	Main frame words 29-34
76	Main frame words 35-39
NOTE: Field 3 (bits 17-24) is not used in word 76. Main frame words 35-39 are stored in fields 1, 2, 4, 5, and 6.	

<u>Word</u>	<u>Description</u>			
77	Main	frame	words	40-45
78	"	"	"	46-51
79	"	"	"	52-57
80	"	"	"	58-63
81	"	"	"	64-68

NOTE: Field 6 (bits 41-48) is not used in word 81. Main frame words 64-68 are stored in fields 1-5 (bits 1-40).

82	Main	frame	words	69-74
83	"	"	"	75-80
84	"	"	"	81-86
85	"	"	"	87-92
86	"	"	"	93-98
87	"	"	"	99,100,128,101-103
88	"	"	"	104-109
89	"	"	"	110-115
90	"	"	"	116-121
91	"	"	"	122-127

92-112	Main	frame	words	5-128,	frame	2
113-133	"	"	"	"	"	3
134-154	"	"	"	"	"	4
155-175	"	"	"	"	"	5
176-196	"	"	"	"	"	6
197-217	"	"	"	"	"	7
218-238	"	"	"	"	"	8
239-259	"	"	"	"	"	9
260-280	"	"	"	"	"	10
281-301	"	"	"	"	"	11
302-322	"	"	"	"	"	12
323-343	"	"	"	"	"	13
344-364	"	"	"	"	"	14
365-385	"	"	"	"	"	15
386-406	"	"	"	"	"	16

407-427	Main frame words 5-128, frame	17
428-448	" " " " , "	18
449-469	" " " " "	19
470-490	" " " " "	20
491-511	" " " " "	21
512-532	" " " " "	22
533-553	" " " " "	23
554-574	" " " " "	24
575-595	" " " " "	25
596-616	" " " " "	26
617-637	" " " " "	27
638-658	" " " " "	28
659-679	" " " " "	29
680-700	" " " " "	30
701-721	" " " " "	31
722-742	" " " " "	32
743-763	" " " " "	33
764-784	" " " " "	34
785-786	Unused	

2.2.2 Low Bit Rate (1.6 KBPS) - Each LBR data file record consists of 20 data frames stored in 744 48-bit words. Word contents and description are as follows:

<u>WORD</u>	<u>CONTENTS</u>
1	Day and year of mission (BCD) a. Bits 1-24: Day of year b. Bits 25-48 Year of mission
2	Data identification codes a. Bits 1-24: Tape record number b. Bits 25-30: Batch number

<u>WORD</u>	<u>CONTENT</u>
	c. Bits 31-36: Format ID (Bit rate code)
	0 = LBR (1.6 KBPS)
	1 = 4 KBPS
	2 = HBR (51.2 KBPS)
	d. Bits 37-42: Data type
	0 = Real time
	1 = Dump
	e. Bits 43-48: Site ID (see table 2-1)
	NOTE: Tape record number and batch number are used in preprocessing only and are meaningless past that point.

3-22 Frame times (GMT) in integer milliseconds as follows:

<u>WORD</u>	<u>DESCRIPTION</u>
3	Time of 1st frame in record
4	Time of 2nd frame in record
.	.
.	.
.	.
21	Time of 19th frame in record
22	Time of 20th frame in record

23-42 Sync statuses (see tables 2-2 and 2-3)

<u>WORD</u>	<u>DESCRIPTION</u>
23	Sync statuses for 1st frame
	a. Bits 1-3: Time sync status
	b. Bits 4-6: Main frame sync status
	c. Bits 7-16: Unused
	d. Bits 17-24: Sync word 4
	e. Bits 25-32: Sync word 1
	f. Bits 33-40: Sync word 2
	g. Bits 41-48: Sync word 3

<u>WORD</u>	<u>DESCRIPTION</u>
24	Sync Statuses for 2nd frame
.	.
.	.
.	.
41	Sync statuses for 19th frame
42	Sync statuses for 20th frame

43-77 Main frame words 5-200 for 1st frame

NOTE: The 8-bit main frame words are stored in ascending order, six to a 48-bit word unless specified otherwise. (See description of word 43 below)

<u>WORD</u>	<u>DESCRIPTION</u>
43	Main frame words 5-10 a. Bits 1-8 (field 1): Main frame word 5 b. Bits 9-16 (field 2): " " " 6 c. Bits 17-24 (field 3): " " " 7 d. Bits 25-32 (field 4): " " " 8 e. Bits 33-40 (field 5): " " " 9 f. Bits 41-48 (field 6): " " " 10
44	Main frame words 11-16
45	Main frame words 17-22
46	Main frame words 23-27 NOTE: Field 3 (bits 17-24) is not used in word 46. Main frame words 23-27 are stored in fields 1, 2, 4, 5 and 6.
47	Main frame words 28-33
48	Main frame words 34-39
49	Main frame words 40-44 NOTE: Field 6 (bits 41-48) is not used in word 49. Main frame words 40-44 are stored in fields 1-5 (bits 1-40).
50	Main frame words 45-50

<u>WORD</u>	<u>DESCRIPTION</u>
51	Main frame words 51-56
52	Main frame words 57-62
53	Main frame words 63-67
	NOTE: Field 3 is not used in word 53. Main frame words 63-67 are stored in fields 1, 2, 4, 5, and 6.
54	Main frame words 68-73
55	Main frame words 74-79
56	Main frame words 80-84
	NOTE: Field 6 is not used in word 56. Main frame words 80-84 are fields 1-5.
57	Main frame words 85-90
58	Main frame words 91-96
59	Main frame words 97-102
60	Main frame words 103-107
	NOTE: Field 3 is not used in word 60. Main frame words 103-107 are stored in fields 1, 2, 4, 5, and 6.
61	Main frame words 108-113
62	Main frame words 114-119
63	Main frame words 120-124
	NOTE: Field 6 is not used in word 63. Main frame words 120-124 are stored in fields 1-5.
64	Main frame words 125-130
65	Main frame words 131-136
66	Main frame words 137-142
67	Main frame words 143-147
	NOTE: Field 3 is not used in word 67. Main frame words 143-147 are stored in fields 1, 2, 4, 5, and 6.

<u>WORD</u>	<u>DESCRIPTION</u>
68	Main frame words 148-153
69	Main frame words 154-159
70	Main frame words 160-164
	NOTE: Field 6 is not used in word 70. Main frame words 160-164 are stored in field 1-5.
71	Main frame words 165-170
72	Main frame words 171-176
73	Main frame words 177-182
74	Main frame words 183-187
	NOTE: Field 3 is not used in word 74. Main frame words 183-187 are stored in fields 1, 2, 4, 5, and 6.
75	Main frame words 188-193
76	Main frame words 194-199
77	Main frame words 200, 156, and 161 as follows:
	a. Bits 1-8 (field 1: Main frame word 200
	b. Bits 9-32 (fields 2-4): unused
	c. Bits 33-40 (field 5): Main frame word 156 converted from BCD to binary
	d. Bits 41-48 (field 6): Main frame word 161 converted from BCD to binary
78-112	Main frame words 5-200, frame 2
113-147	Main frame words 5-200, frame 3
148-182	" " " " " 4
183-217	" " " " " 5
218-252	" " " " " 6
253-287	" " " " " 7
288-322	" " " " " 8
323-357	" " " " " 9
358-392	" " " " " 10
393-427	" " " " " 11

<u>WORD</u>	<u>CONTENT</u>
428-462	Main frame words 5-200, frame 12
463-497	" " " " " 13
498-532	" " " " " 14
533-567	" " " " " 15
568-602	" " " " " 16
603-637	" " " " " 17
638-672	" " " " " 18
673-707	" " " " " 19
708-742	" " " " " 20
743-744	Unused

2.2.3 MA048 (4.0 KBPS) - Each 4 KB data file record consists of 48 data frames (8.352 seconds of data) stored in 795 48-bit words. Word contents and description are as follows:

<u>WORD</u>	<u>CONTENTS</u>
1	Day and year of mission a. Bits 1-24: Day of year b. Bits 25-48: Year of mission
2	Data Identification codes a. Bits 1-24: Tape record number b. Bits 25-30: Batch number c. Bits 31-36 Format ID (Bit rate code) 0 = LBR (1.6 KBPS) 1 = 4 KBPS 2 = HBR (51.2 KBPS) d. Bits 37-42 Data type 0 = real time 1 = dump e. Bits 43-48: Site ID (See table 2-1)

NOTE: Tape record number and batch number are used in preprocessing only and are meaningless past that point.

<u>WORD</u>	<u>CONTENTS</u>
3-50	Frame times (GMT) in integer milliseconds as follows:
	<u>WORD</u> <u>DESCRIPTION</u>
	3 Time of 1st frame in record
	4 Time of 2nd frame in record
	· ·
	· ·
	· ·
	49 Time of 47th frame in record
	50 Time of 48th frame in record
51-74	Sync statuses (See tables 2-2 and 2-3)
	<u>WORD</u> <u>DESCRIPTION</u>
	51 Sync statuses for 1st and 2nd frames as follows:
	a. Bits 1-3: Time sync status (1st frame)
	Bits 4-6: Main frame sync status (1st frame)
	Bits 7-9: Subframe sync status (1st frame)
	Bits 10-19: unused
	Bits 20-24: Generated frame counter (1st frame)
	Bits 25-27: Time sync status (2nd frame)
	Bits 28-30: Main frame sync status (2nd frame)
	Bits 31-33: Subframe sync status (2nd frame)
	Bits 34-43: Unused
	Bits 44-48: Generated frame counter (2nd frame)
	52 Sync statuses for 3rd and 4th frames
	· ·
	· ·
	· ·
	73 Sync statuses for 45th and 46 frames
	74 Sync statuses for 47th and 48th frames
75-89	Main frame words 1-58 for 1st frame
	NOTE: The 12-bit main frame words are stored in ascending order, four to a 48-bit word as shown below:

WORD	DESCRIPTION
------	-------------

75	Main frame words 1-4 as follows:
	a. Bits 1-12 (field 1): Main frame word 1
	b. Bits 13-24 (field 2): Main frame word 2
	c. Bits 25-36 (field 3): Main frame word 3
	d. Bits 37-48 (field 4): Main frame word 4
76	Main frame words 5-8
77	" " " 9-12
78	" " " 13-16
79	" " " 17-20
80	" " " 21-24
81	" " " 25-28
82	" " " 29-32
83	" " " 33-36
84	" " " 37-40
85	" " " 41-44
86	" " " 45-48
87	" " " 49-52
88	" " " 53-56
89	" " " 57 and 58

NOTE: Main frame words 57 and 58 are stored in fields 1 and 2 (bits 1-24). Fields 3 and 4 (bits 25-48 are not used).

90-104	Main frame words 1-58, frame 2
105-119	" " " " " 3
120-134	" " " " " 4
135-149	" " " " " 5
150-164	" " " " " 6
165-179	" " " " " 7
180-194	" " " " " 8
195-209	" " " " " 9
210-224	" " " " " 10

225-239	Main	frame	words	1-58,	frame	11
240-254	"	"	"	"	"	12
255-269	"	"	"	"	"	13
270-284	"	"	"	"	"	14
285-299	"	"	"	"	"	15
300-314	"	"	"	"	"	16
315-329	"	"	"	"	"	17
330-344	"	"	"	"	"	18
345-359	"	"	"	"	"	19
360-374	"	"	"	"	"	20
375-389	"	"	"	"	"	21
390-404	"	"	"	"	"	22
405-419	"	"	"	"	"	23
420-434	"	"	"	"	"	24
435-449	"	"	"	"	"	25
450-464	"	"	"	"	"	26
465-479	"	"	"	"	"	27
480-494	"	"	"	"	"	28
495-509	"	"	"	"	"	29
510-524	"	"	"	"	"	30
525-539	"	"	"	"	"	31
540-554	"	"	"	"	"	32
555-569	"	"	"	"	"	33
570-584	"	"	"	"	"	34
585-599	"	"	"	"	"	35
600-614	"	"	"	"	"	36
615-629	"	"	"	"	"	37
630-644	"	"	"	"	"	38
645-659	"	"	"	"	"	39
660-674	"	"	"	"	"	40
675-689	"	"	"	"	"	41
690-704	"	"	"	"	"	42
705-719	"	"	"	"	"	43
720-734	"	"	"	"	"	44

735-749	Main frame words 1-58, frame	45
750-764	" " " " "	46
765-779	" " " " "	47
780-794	" " " " "	48
795	Unused	

TABLE 2-1
SITE ID CODES

<u>OCTAL CODE</u>	<u>ACRONYM</u>	<u>SITE</u>
00	None	
01	MIL	MILA
02	ACN	ASCENSION
03	CRO	CANARVON
04	HAW	HAWAII
05	GWM	GUAM
06	BDA	BERMUDA
07	GBI	GRAND BAHAMA ISLANDS
10	ANT	ANTIGUA
11	CYI	CANARY ISLANDS
12	VAN	VANGUARD
13	TEX	TEXAS
14	GDS	GOLDSTONE
15	MAD	MADRID
16	HSK	HONEYSUCKLE CREEK
17	BDX	BERMUDA-X
20	ORR	ORRORAL
21	TAN	TANANARIVE (MALAGASY)
22	NFL	NEWFOUNDLAND
23	AGO	SANTIAGO (CHILE)
24	ROS	ROSMAN (NORTH CAROLINA)
25	QUI	QUITO
26	BUI	BUITRAGO

TABLE 2-2

DATA SYNC STATUS CODES

<u>VALUE</u>	<u>DATA QUALITY DEFINITION</u>
7	The prime frame synchronization pattern was recognized or high confidence built up in synchronization pattern.
5	A one-bit slip was recognized in the prime frame synchronization pattern or medium confidence built up in the synchronization pattern.
3	Low confidence built up in the synchronization pattern.
1	No confidence in the prime frame synchronization pattern.
0	No confidence in the prime frame synchronization pattern or data missing for the prime frame.

NOTE: Past processing experience has shown that reasonable data quality may be expected when the data sync code is ≤ 5 .

TABLE 2-3

TIME SYNC STATUS CODES

<u>VALUE</u>	<u>TIME QUALITY</u>
7	No timing problem detected in timing subsystem (or generating time) and verified by the Time Edit Program.
6	Time Edit Program certified time as good although timing subsystem indicated a problem.
5	Time was corrected or rebuilt by Time Edit Program because of discontinuity in time.
3	Time continuity reestablished starting with this time.
1	Time is erroneous and could not be corrected by Time Edit Program.
0	Prime frame is missing.

NOTE: Past processing experience has shown that reasonable time quality may be expected when the time sync code is ≥ 5 .

JSC-09994

APOLLO SOYUZ TEST PROJECT
DATA AVAILABILITY TIMELINE

INSTRUMENTATION INTEGRATION BRANCH
TEST DIVISION
PROGRAM OPERATIONS OFFICE



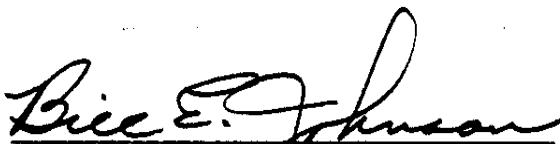
National Aeronautics and Space Administration
LYNDON B. JOHNSON SPACE CENTER
Houston, Texas

October 17, 1975

APOLLO SOYUZ TEST PROJECT

DATA AVAILABILITY TIMELINE

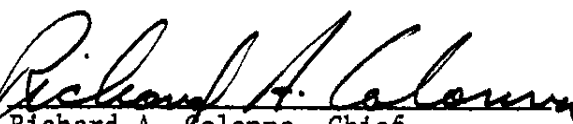
PREPARED BY:


Bill E. Johnson
Instrumentation Integration Branch

APPROVED BY:


Galloway E. Foster, Chief
Instrumentation Integration Branch

APPROVED BY:


Richard A. Colonna, Chief
Test Division

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

LYNDON B. JOHNSON SPACE CENTER

HOUSTON, TEXAS

October 17, 1975

Foreword

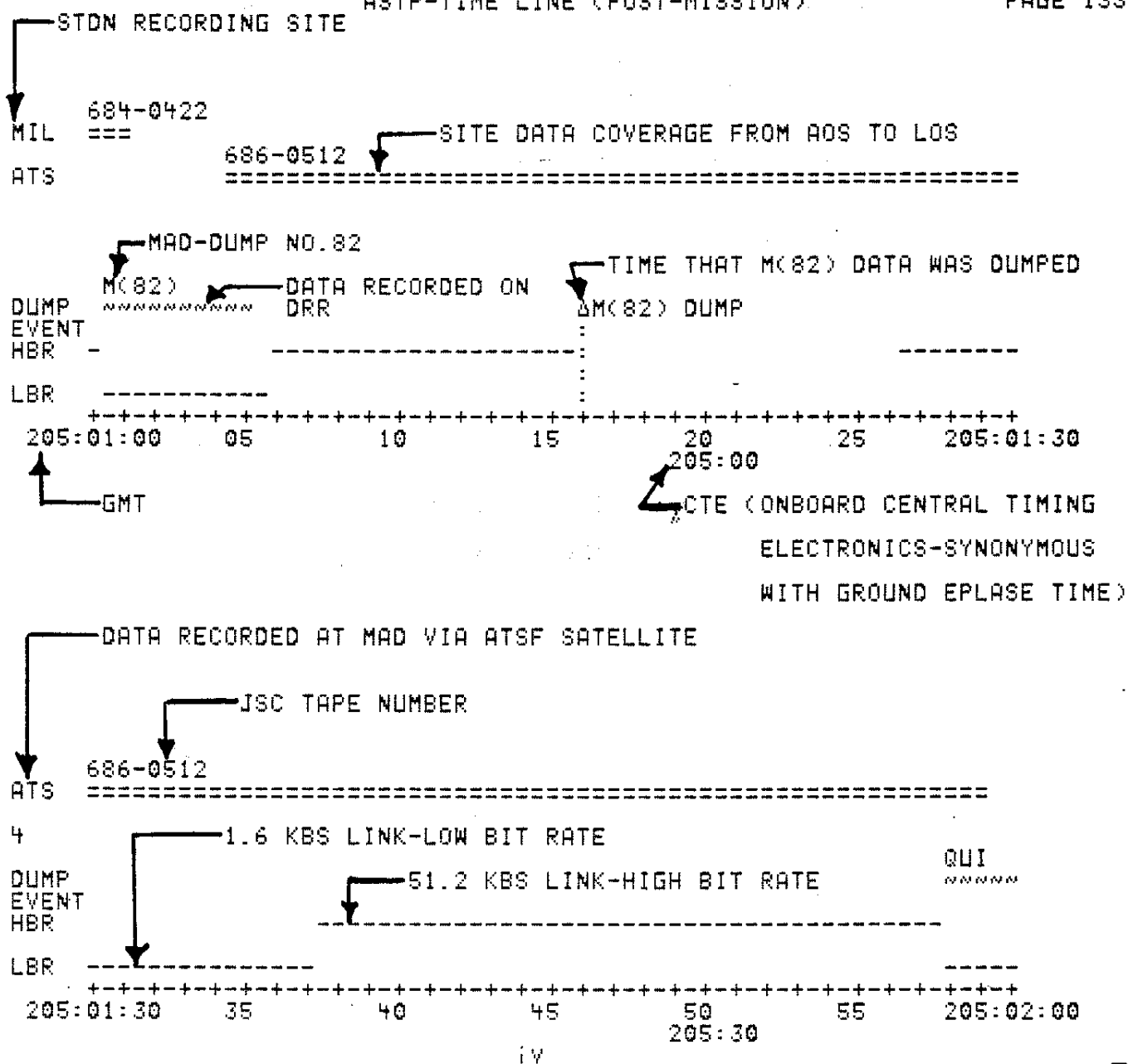
The ASTP Data Availability Timeline document represents the data that was recorded and processed in support of all experiments that required post Mission data.

A special thanks goes to WILLIAM A. KELLEY for his assistance in providing the data quality analyses for all processed data.

Example

ASTP-TIME LINE (POST-MISSION)

PAGE 133



CONTENTS

SECTION		PAGE
1.0	51.2KBS AND 1.6KBS LINKS- DATA COVERAGE FOR ASTP EXPERIMENTS: MA-007, STRATOSPHERIC AEROSOL MEASUREMENT MA-028, CRYSTAL GROWTH IN ZERO GRAVITY MA-059, UV ABSORPTION MA-083, EXTREME UV SURVEY MA-088, HELIUM GLOW MA-089, DOPPLER TRACKING MA-106, LIGHT FLASH MA-136, EARTH OBSERVATIONS AND PHOTOGRAPHY MA-128, GEODYNAMICS MA-010, MULTIPURPOSE FURNACE MA-107, BIOSTACK	1A
2.0	4KBS LINK- DATA COVERAGE FOR ASTP EXPERIMENT: MA-048, X-RAY	147A

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO: 00

GMT DAY NO:196

PAGE: 01A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MM:SEC	GMT TO HR:MM:SEC	BIT RATE	R/T OR D/T	REMARKS:

063	MIL	AS97	19:30:10	19:59:01	H	R/T
-----	-----	------	----------	----------	---	-----

282	BDA	742	19:53:51	20:02:03	H	R/T	POOR AT AOS
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064	MAD	743	20:10:50	20:11:07	H	R/T
-----	-----	-----	----------	----------	---	-----

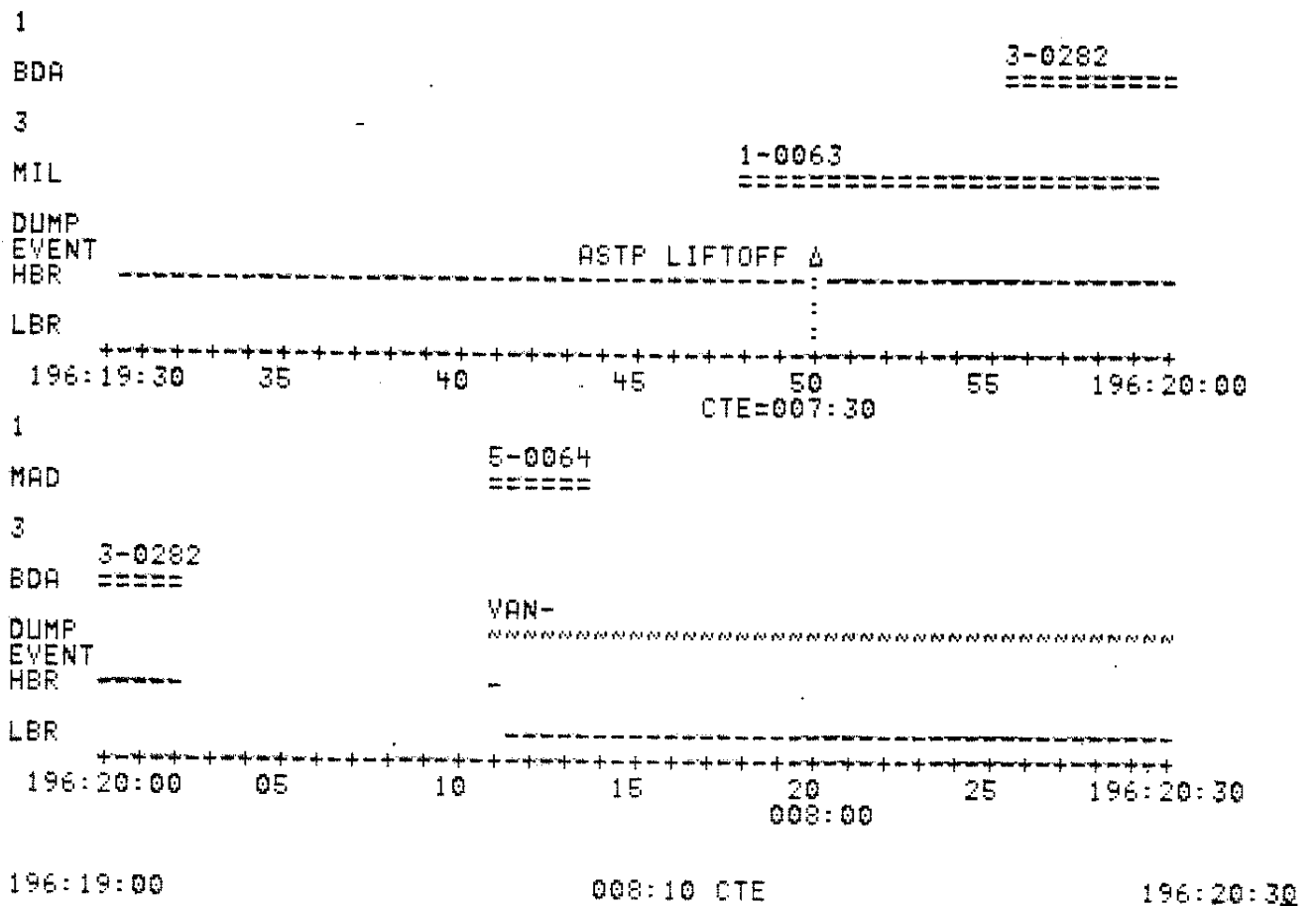
— 10 —

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1	1					
2		1				
3			1			
4				1		
5					1	
6						1

ASTP-TIME LINE (POST-MISSION)

PAGE 001

NOTE: TO CONVERT CTE TO GMT, MULTIPLY CTE BY
 (.999999917 AND ADD 196:12:19:59:752 FOR GMT DAYS 196 & 197)
 (.999999890 AND ADD 196:12:19:59:752 FOR GMT DAYS 198 THRU 205)



ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO:00

GMT DAY NO:196

PAGE:02A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:

			:	:	:	:	
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558	VAN	338	21:01:58	21:07:54	H	R/T	
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281	GDS	755	21:06:	21:10:	H	D/T	NOT PROCESSED
-----	-----	-----	--------	--------	---	-----	---------------

080	ATS	43R	21:09:18	21:12:56	H	D/T	
-----	-----	-----	----------	----------	---	-----	--

080	ATS	AS111	21:13:19	21:27:15	L	D/T	
-----	-----	-------	----------	----------	---	-----	--

248	RDS	339	21:27:16	21:27:51	H	R/T	
-----	-----	-----	----------	----------	---	-----	--

080	ATS	AS111	21:28:13	21:41:01	L	D/T	
-----	-----	-------	----------	----------	---	-----	--

065	MAD	340	21:41:07	21:43:41	H	R/T	
-----	-----	-----	----------	----------	---	-----	--

080	ATS	AS111	21:44:03	22:00:00	L	D/T	(CONT.ON 3A)
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ASTP-TIME LINE (POST-MISSION)

PAGE 002

1
2
3
4

VAN
DUMP
EVENT
HBR

LBR

+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
196:20:30 35 40 45 50 55 196:21:00
008:30

1
2

RDS 7-0248
=====

VAN 6-0558
=====

VAN M(1) GDS M(1)
DUMP
EVENT
HBR

LBR

+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
196:21:00 05 10 15 20 25 196:21:30
009:00

1
2

MAD 9-0065
=====

M(1) M(1)
DUMP
EVENT
HBR

LBR

+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
196:21:30 35 40 45 50 55 196:22:00
009:30

196:20:30 009:40 CTE 196:22:00

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO:00

GMT DAY NO:196

PAGE:03A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:

080	ATS	AS111	22:00:00	22:15:42	L	D/T	
080	ATS	43R	22:15:48	22:20:44	H	D/T	
082	ATS	44R	22:18:06	22:27:17	H	D/T	
			: :	: :			
558	VAN	341	22:33:09	22:38:22	H	R/T	
			: :	: :			
281	GDS	342	22:50:32	22:55:15	H	R/T	
080	ATS	AS111	22:56:01	23:06:09	L	D/T	
066	ATS	41	23:06:13	23:15:01	H	R/T	
			: :	: :			
066	ATS	41	23:24:46	23:27:51	H	R/T	
067	ATS	42R	23:25:37	23:30:00	H	R/T	(CONT. ON 4A)
			: :	: :			
			: :	: :			
			: :	: :			

ASTP-TIME LINE (POST-MISSION)

PAGE 003

1
2
3
4

DUMP M(1)
EVENT
HBR

LBR
196:22:00 05 10 15 20 25 196:22:30
010:00

1
2

GDS 12-0281D
VAN 11-0558(0559D)
DUMP M(1)
EVENT
HBR

LBR
196:22:30 35 40 45 50 55 196:23:00
010:30

1
3
4

ATS 14-0066 15-0067

DUMP M(1)
EVENT
HBR
LBR

196:23:00 05 10 15 20 25 196:23:30
011:00

196:22:00

011:10 CTE

196:23:30

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO: 00/01

GMT DAY NO:196/197

PAGE: 04A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:
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067	ATS	42R	23:30:00	23:33:32	H	R/T
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[illegible]

067	ATS	42R	23:47:01	23:50:09	H	R/T
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080	ATS	AS111	23:50:53	00:36:59	L	D/T
-----	-----	-------	----------	----------	---	-----

BLOCK NO: 01

080	ATS	109	00:36:09	00:37:08	L	R/T
-----	-----	-----	----------	----------	---	-----

080	ATS	43R	00:37:08	00:45:28	H	R/T
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[illegible]

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	5
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1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2413	2414	2415	2416	2417	2418	2419	2420	2421	2422	2423	2424	2425	2426	2427	2428	2429	2430	2431	2432	2433	2434	2435	2436	2437	2438	2439	2440	2441	2442	2443
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[illegible]

ASTP-TIME LINE (POST-MISSION)

PAGE 004

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1
ORR                                     17-0141
ATS 15-0067
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4
DUMP                                     M(1)
EVENT
HBR -----
LBR -----
+-----+
196:23:30 35 40 45 50 55 197:00:00
011:30

1
2
3
HAW                                     18-0113
M(1)
=====
DUMP
EVENT
HBR
LBR -----
+-----+
197:00:00 05 10 15 20 25 197:00:30
012:00

1
2
ATS 19-0080 20-0082
=====
4
DUMP M(1)
EVENT
HBR
LBR -----
+-----+
197:00:30 35 40 45 50 55 197:01:00
012:30

196:23:30 012:40 CTE 197:01:00
  
```

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO:01

GMT DAY NO:197

PAGE:05A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:

			:	:			
082	ATS	44R	01:09:03	01:12:43	H	R/T	
			:	:			
162	ATS	45R	01:22:43	01:29:13	H	D/T	
162	ATS	343	01:29:29	02:06:36	L	D/T	
173	BDA	95	02:06:08	02:06:41	L	R/T	
173	BDA	06	02:06:41	02:12:40	H	R/T	
			:	:			
110	ACN	96	02:22:40	02:28:26	H	R/T	
162	ATS	45R	02:25:24	02:31:45	H	R/T	
163	ATS	46	02:28:36	02:30:00	H	R/T	(CONT. ON 6A)
			:	:			
			:	:			

PAGE 005

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1
2
ATS      20-0082
=====

ORR
22-0141
=====
M(2)
*****

DUMP
EVENT
HBR      -----

LBR      -----

197:01:00      05      10      15      20      25      197:01:30
013:00

1
2
3
HAW      23-0113
=====
M(2)
*****
DUMP
EVENT
HBR

LBR      -----

197:01:30      35      40      45      50      55      197:02:00
013:30

1
ATS      26-0162
=====
25-0173
=====
BDA
27-0110
=====
ACN
M(2)
*****
DUMP
EVENT      AREV 5      *M(2) DUMP
HBR      :      :
LBR      -----

197:02:00      05      10      15      20      25      197:02:30
014:00

197:01:00      014:10 CTE      197:02:30

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ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO: 01/02

GMT DAY NO:197

PAGE: 06A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MM:SEC	GMT TO HR:MM:SEC	BIT RATE	R/T OR D/T	REMARKS:

163	ATS	46	02:30:00	02:57:50	H	R/T
-----	-----	----	----------	----------	---	-----

174	BDA	98	02:58:26	03:06:34	L	D/T
-----	-----	----	----------	----------	---	-----

247	GWM	97	03:06:40	03:09:53	H	R/T
-----	-----	----	----------	----------	---	-----

174	BDA	98	03:10:16	03:36:03	L	D/T
-----	-----	----	----------	----------	---	-----

BLOCK NO: 02

119	MIL	11	03:35:51	03:36:07	L	R/T
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119	MIL	09	03:36:07	03:37:02	H	R/T
-----	-----	----	----------	----------	---	-----

247	BDA	10	03:36:51	03:44:51	H	R/T
-----	-----	----	----------	----------	---	-----

083	ATS	135	03:43:51	03:54:44	H	D/T
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149	ATS	47R	03:53:05	04:00:00	H	R/T	(CONT. ON 7A)
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[illegible][illegible][illegible][illegible]

1. **Identify the main components of the system.** The system consists of a **client** and a **server**. The client is responsible for sending requests to the server, and the server is responsible for processing these requests and returning responses.

2. **Describe the data flow.** Data flows from the client to the server via a **network**. The client sends a request, and the server returns a response.

3. **Explain the communication protocol.** The communication protocol is based on **HTTP** (Hypertext Transfer Protocol). The client sends an **HTTP request** to the server, and the server returns an **HTTP response**.

4. **Detail the error handling.** The system includes error handling mechanisms to manage **exceptions** and **errors**. These mechanisms ensure that the system can gracefully handle unexpected situations and provide meaningful feedback to the user.

5. **Summarize the overall architecture.** The overall architecture is a **client-server** model. The client interacts with the server through a network, using HTTP for communication. The server processes requests and returns responses, while error handling mechanisms manage any issues that arise.

ASTP-TIME LINE (POST-MISSION)

PAGE 006

1

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3

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02-0163
ATS =====
DUMP BDA
EVENT
HBR -----
LBR -----
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197:02:30 35 40 45 50 55 197:03:00
014:30
  
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1

2

3

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29-0247
GWM =====
DUMP BDA BDA
EVENT
HBR -----
LBR -----
+++++
197:03:00 05 10 15 20 25 197:03:30
30-0249 015:00
RDS =====
32-0174D
BDA =====
31-0119D
MIL =====
33-0149
ATS =====
DUMP BDA M(3)
EVENT BLOCK 2* ΔREV 6
HBR -----
LBR -----
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197:03:30 35 40 45 50 55 197:04:00
015:30
  
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197:02:30

015:40 CTE

197:04:00

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO:02

GMT DAY NO:197

PAGE:07A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:
149	ATS	47R	04:00:00	04:07:22	H	R/T	
150	ATS	48	04:05:06	04:37:12	H	R/T	
083	ATS	135	04:36:06	04:41:13	H	D/T	
247	GWM	127	04:40:58	04:41:39	H	R/T	
084	ATS	137	04:42:09	05:01:58	L	D/T	
161	GDS	12R	05:02:08	05:06:23	H	R/T	
084	ATS	138	05:05:32	05:09:34	H	D/T	
175	MIL	13	05:09:26	05:13:07	H	R/T	
084	ATS	138	05:12:33	05:17:37	H	D/T	
257	QUI	100	05:17:10	05:19:26	H	R/T	
084	ATS	138	05:19:01	05:23:00	H	D/T	
151	ATS	99	05:21:54	05:30:00	H	R/T	(CONT.ON 8A)
			:	:			
			:	:			
			:	:			

ASTP-TIME LINE (POST-MISSION)

PAGE 007

1

2

3

ATS 33-0149 18-0150
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DUMP
EVENT
HBR -----

LBR
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197:04:00 05 10 15 20 25 197:04:30
016:00

1

2

ATS 24-0150
=====

GWM 35-0247
=====

M(3)
DUMP
EVENT
HBR -----

LBR
+-----+
197:04:30 35 40 45 50 55 197:05:00
37-0161 016:30

GDS
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QUI 40-0257
=====

MIL 39-0175
=====

ATS 41-0151
=====

M(3) M(3) M(3) M(3)
DUMP
EVENT
HBR -----

LBR
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197:05:00 05 10 15 20 25 197:05:30
017:00

197:04:00

017:10 CTE

197:05:30

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO:02

GMT DAY NO:197

PAGE:08A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:
151	ATS	99	05:30:00	05:49:39	H	R/T	
152	ATS	101	05:46:47	06:13:53	H	R/T	
152	ATS	102	06:13:57	06:14:56	L	R/T	
084	ATS	137	06:14:22	06:34:11	L	D/T	
161	GDS	104	06:33:38	06:34:04	L	R/T	
161	GDS	103	06:34:04	06:39:13	H	R/T	
084	ATS	138	06:38:20	06:43:46	H	D/T	
137	ATS	76R	06:42:32	06:42:44	H	D/T	
114	HAW	297	06:45:27	06:47:52	H	R/T	
257	QUI	105	06:46:47	06:47:22	H	R/T	
257	QUI	105	06:48:47	06:51:19	H	R/T	POOR
			: :	: :			
131	AGO	345	06:53:43	06:59:06	H	R/T	
180	ATS	107	06:58:35	07:00:00	H	R/T	POOR (CONT. ON 09A)
			: :	: :			

ASTP-TIME LINE (POST-MISSION):

PAGE 008

1

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3

ATS 41-0151 44-0152
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DUMP
EVENT
HBR -----

LBR

197:05:30 35 40 45 50 55 197:06:00
017:30

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2

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ATS 44-0152
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DUMP M(3)
EVENT
HBR -----

LBR

197:06:00 05 10 15 20 25 197:06:30
018:00 47-0131

AGD

ATS

QUI

GDS

DUMP

EVENT

HBR

LBR

197:06:30 35 40 45 50 55 197:07:00
018:30

197:05:30

018:40 CTE

197:07:00

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO: 02/03

GMT DAY NO:197

PAGE:09A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MM:SEC	GMT TO HR:MM:SEC	BIT RATE	R/T OR D/T	REMARKS:

180	ATS	107	07:00:00	07:23:22	H	R/T
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181	ATS	108	07:19:44	07:46:25	H	R/T
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181	ATS	109	07:46:30	07:48:47	L	R/T
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BLOCK NO: 03

131	AGO	128	08:28:02	08:29:08	L	R/T	POOR
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131	AGO	128	08:29:38	08:29:52	L	R/T	POOR
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Age Group	2006 (%)	2008 (%)
18-29	~85	~80
30-39	~85	~80
40-49	~80	~70
50-59	~85	~80
60+	~85	~80

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ASTP-TIME LINE (POST-MISSION)

PAGE 009

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ATS 48-0180 46-0181
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DUMP
EVENT
HBR -----

LBR
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197:07:00 05 10 15 20 25 197:07:30
019:00

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ATS 46-0181
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DUMP
EVENT
HBR ----- *BLOCK 3

LBR
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197:07:30 35 40 45 50 55 197:08:00
019:30

1

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3

AGO 50-0131
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DUMP
EVENT
HBR Δ REV 9
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LBR
+++++
197:08:00 05 10 15 20 25 197:08:30
020:00

197:07:00

020:10 CTE

197:08:30

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO:03

GMT DAY NO:197

PAGE:10A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:

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182	ATS	129	08:32:19	08:52:04	L	R/T	
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153	ATS	130	08:50:14	09:21:10	L	R/T	
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114	HAW	15	09:33:12	09:33:31	L	R/T	
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114	HAW	14	09:34:29	09:38:43	H	R/T	
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114	HAW	15	09:38:45	09:39:26	L	R/T	
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560	VAN	131	09:39:15	10:00:00	L	D/T	(CONT. ON 11A)
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ASTP-TIME LINE (POST-MISSION)

PAGE 010

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ATS 51-0182 49-0153
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DUMP
EVENT
HBR

LBR

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197:08:30 35 40 45 50 55 197:09:00
020:30

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ATS 49-0153
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DUMP
EVENT
HBR

LBR

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197:09:00 05 10 15 20 25 197:09:30
021:00

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HAW 54-0114D
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4

DUMP VAN
EVENT
HBR

LBR

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197:09:30 35 40 45 50 55 197:10:00
021:30

197:08:30

021:40 CTE

197:10:00

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO: 03

GMT DAY NO:197

PAGE: 11A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:
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560	VAN	131	10:00:00	10:45:52	L	D/T
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[illegible]

105	HAW	205	11:06:42	11:07:11	L	R/T
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105	HAW	16	11:07:12	11:10:22	H	R/T
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560	VAN	132	11:15:18	11:19:49	H	R/T
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1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2413	2414	2415	2416	2417	2418	2419	2420	2421	2422	2423	2424	2425	2426	2427	2428	2429	2430	2431	2432	2433	2434	2435	2436	2437	2438	2439	2440	2441	2442	2443
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084	ATS	137	11:20:13	11:30:00	L	D/T	(CONT. ON 12A)
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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466
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RSTP-TIME LINE (POST-MISSION)

PAGE 011

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ATS          55-0154                                     52-0183
=====Δ=====
DUMP VAN
EVENT Δ REV 10
HBR      :
LBR      -----
+-----+
197:10:00 05      10      15      20      25      197:10:30
                                022:00
  
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1

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DUMP VAN
EVENT
HBR
LBR -----
+-----+
197:10:30 35      40      45      50      55      197:11:00
                                022:30
  
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VAN          57-0560D
=====
HAW          56-0105D
=====
DUMP M(3)
EVENT
HBR -----
LBR -----
+-----+
197:11:00 05      10      15      20      25      197:11:30
                                023:00
  
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197:10:00

023:10 CTE

197:11:30

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO: 03

GMT DAY NO:197

PAGE: 12A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:
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084	ATS	137	11:30:00	11:35:59	L	D/T
-----	-----	-----	----------	----------	---	-----

272	GWM	140	11:36:37	12:26:21	L	D/T
-----	-----	-----	----------	----------	---	-----

561	VAN	133	12:46:35	12:46:45	L	R/T
-----	-----	-----	----------	----------	---	-----

561	VAN	133	12:47:16	12:47:39	L	R/T	-
-----	-----	-----	----------	----------	---	-----	---

561	VAN	134	12:47:40	12:52:46	H	R/T	SCHEDULED DUMP SCRUBBED
-----	-----	-----	----------	----------	---	-----	-------------------------

Age Group	Male (%)	Female (%)
18-29	85	80
30-39	85	80
40-49	85	80
50-59	85	80
60-69	85	80
70+	85	80

ASTP-TIME LINE (POST-MISSION)

PAGE 012

1

2

3

4

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M(3)          GWM
DUMP  M(3)          GWM
EVENT  Δ REV 11
HBR    :
      :
LBR    -----
      +-----+-----+-----+-----+-----+-----+
197:11:30    35          40          45          50          55    197:12:00
                                   023:30
  
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1

2

3

4

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GWM
DUMP  GWM
EVENT
HBR
LBR  -----
      +-----+-----+-----+-----+-----+-----+
197:12:00    05          10          15          20          25    197:12:30
                                   024:00
  
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1

2

3

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59-0561D
VAN  =====
DUMP
EVENT
HBR  -----
LBR  -----
      +-----+-----+-----+-----+-----+-----+
197:12:30    35          40          45          50          55    197:13:00
                                   024:30
  
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197:11:30

024:40 CTE

197:13:00

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO:03

GMT DAY NO:197

PAGE:13A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:

			: :	: :			
083	ATS	135	13:14:24	13:14:28	H	R/T	
			: :	: :			
083	ATS	135	13:16:24	13:22:07	H	R/T	
139	ACN	07	13:20:13	13:22:17	H	R/T	
			: :	: :			
139	ACN	07	13:24:10	13:26:20	H	R/T	
			: :	: :			
272	GWM	139	14:01:02	14:07:37	H	R/T	10 SEC GAP
117	MAD	790	14:08:05	14:30:00	L	D/T	(CONT.ON 14A)
			: :	: :			
			: :	: :			
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ASTP-TIME LINE (POST-MISSION)

PAGE 013

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2

ACN

74-0139

ATS

60-0083

DUMP
EVENT

Δ REV 12

*M(3) DUMP

HBR

LBR

197:13:00 05 10 15 20 25 197:13:30
025:00

1

2

3

ATS

60-0083

90-0084

DUMP
EVENT
HBR

LBR

197:13:30 35 40 45 50 55 197:14:00
025:30

1

2

3

GWM

62-0272D

DUMP
EVENT
HBR

M(4)

LBR

197:14:00 05 10 15 20 25 197:14:30
026:00

197:13:00

025:10 CTE

197:14:30

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO:03

GMT DAY NO:197

PAGE: 14A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:
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117	MAD	790	14:30:00	14:38:59	L	D/T
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078	AGO	19	14:38:48	14:39:06	L	R/T
-----	-----	----	----------	----------	---	-----

078	AGO	18	14:39:07	14:41:58	H	R/T
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078	AGO	19	14:42:01	14:42:51	L	R/T
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117	MAD	790	14:42:10	14:45:24	L	D/T
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594	BUI	351	14:46:44	15:28:25	H	R/T
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089	ATS	218	15:28:47	16:00:00	L	D/T	(CONT. ON 15A)
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[illegible]

(The following information was obtained from the records of the FBI, Department of Justice, Office of the Inspector General, Washington, D.C., dated 10/10/68.)

PAGE 014

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11	111	11
22	222	22
33	333	33
44	444	44
55	555	55
66	666	66
77	777	77
88	888	88
99	999	99

MC 43

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Δ REV 1.3

197:15:00

026:30

107-594

0000	0001	0002	0003	0004	0005	0006	0007	0008	0009	0010	0011	0012	0013	0014	0015	0016	0017	0018	0019	0020	0021	0022	0023	0024	0025	0026	0027	0028	0029	0030	0031	0032	0033	0034	0035	0036	0037	0038	0039	0040	0041	0042	0043	0044	0045	0046	0047	0048	0049	0050	0051	0052	0053	0054	0055	0056	0057	0058	0059	0060	0061	0062	0063	0064	0065	0066	0067	0068	0069	0070	0071	0072	0073	0074	0075	0076	0077	0078	0079	0080	0081	0082	0083	0084	0085	0086	0087	0088	0089	0090	0091	0092	0093	0094	0095	0096	0097	0098	0099
------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------

64-0035

65-0007

0100	0101	0110	0111	1000	1001	1010	1011	1100	1101	1110	1111
0000	0001	0010	0011	0100	0101	0110	0111	1000	1001	1010	1011

MC 5)

```
*M(4) DUMP
```

117. 118. 119. 120. 121.

197:15:30

027:00

65-0087

NAME	DATE	TIME	PLACE	REMARKS
...	...	...	...	...

66-0077

MC 5)

197:16:00

027:30

197:16:00

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO:03/04

GMT DAY NO:197

PAGE:15A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:

089	ATS	218	16:00:00	16:13:11	L	D/T	

BLOCK NO:04

078	AGO	20	16:13:16	16:14:08	H	R/T	
089	ATS	218	16:14:21	16:21:41	L	D/T	
088	ATS	70	16:21:47	16:40:12	H	R/T	
088	MAD	347	16:35:43	16:40:36	H	R/T	
			: :	: :			
077	ORR	21R	17:16:04	17:18:28	H	R/T	HAS 13 SEC GAP
			: :	: :			
077	ORR	219	17:21:29	17:21:53	L	R/T	
068	BDA	220	17:21:56	17:30:00	L	D/T	(CONT. ON 16A)
			: :	: :			
			: :	: :			
			: :	: :			
			: :	: :			

ASTP-TIME LINE (POST-MISSION)

PAGE 015

1

.AGO

80-0078

=====

3

ATS

68-0088

=====

DUMP M(5)

M(5)

EVENT

HBR

Δ REV 14

LBR

197:16:00

05

10

15

20

25

197:16:30

028:00

1

2

ATS

68-0088

102-0089

MAD

DUMP

*M(5) DUMP

EVENT

HBR

LBR

197:16:30

35

40

45

50

55

197:17:00

028:30

1

2

ATS

102-0089

ORR

70-0077

DUMP

EVENT

HBR

BDA

LBR

197:17:00

05

10

15

20

25

197:17:30

029:00

197:16:00

029:10 CTE

197:17:30

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO:04

GMT DAY NO:197

PAGE:16A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:
068	BDA	220	17:30:00	17:46:56	L	D/T	
			:	:			
277	QUI	149	17: :	17: :	L	R/T	NO LBR DATA ON TAPE
277	QUI	90	17:48:55	17:52:09	H	R/T	POOR DATA
			:	:			
068	BDA	23	17:56:52	17:57:07	L	R/T	
068	BDA	22	17:57:11	18:01:01	H	R/T	
090	ATS	72R	17:58:06	18:26:21	H	R/T	
091	ATS	73	18:24:40	18:48:15	H	R/T	
147	ATS	221	18:48:54	19:00:00	L	D/T	(CONT. ON 17A)
			:	:			
			:	:			
			:	:			
			:	:			
			:	:			

ASTP-TIME LINE (POST-MISSION)

PAGE 016

1

ATS

73-0090

BDA

72-0068D

QUI

71-0277

BDA

DUMP

EVENT

HBR

Δ REV 15

LBR

197:17:30 35 40 45 50 55 197:18:00
029:30

1

2

ATS

73-0090

94-0091

BDA

72-0068D

DUMP

EVENT

HBR

LBR

197:18:00 05 10 15 20 25 19:18:30
030:00

1

2

3

ATS

94-0091

DUMP

EVENT

HBR

M(6)

LBR

197:18:30 35 40 45 50 55 197:19:00
030:30

197:17:30

030:40 CTE

197:19:00

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO:04

GMT DAY NO:197

PAGE:17A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:
147	ATS	221	19:00:00	19:24:12	L	D/T	
176	MIL	24	19:24:16	19:29:49	H	R/T	
140	BDA	25	19:28:06	19:34:01	H	R/T	
147	ATS	77R	19:33:52	19:42:51	H	D/T	
137	ATS	160R	19:40:31	19:44:57	H	D/T	
155	ATS	79R	19:44:00	19:56:22	H	R/T	
156	ATS	154	19:54:13	19:58:32	H	R/T	
			:	:			
156	ATS	154	20:09:13	20:10:24	H	R/T	
			:	:			
156	ATS	154	20:12:05	20:12:46	H	R/T	
156	ATS	154	20:13:26	20:13:37	H	R/T	
156	ATS	155	20:13:42	20:17:55	L	R/T	
137	ATS	160	20:18:02	20:19:14	H	D/T	
			:	:			
094	ATS	167	20:25:48	20:26:02	H	D/T	

ASTP-TIME LINE (POST-MISSION)

PAGE 017

```

1
BDA 79-0140
=====
ROS 78-0244
=====
MIL 77-0176
=====
DUMP M(6)
EVENT
HBR -----
LBR -----
197:19:00 05 10 15 20 25 197:19:30
031:00

```

```

1
ATS 81-0155 172-0156
=====
MAD =====
BDA 79-0140
=====
DUMP M(6)
EVENT
HBR -----
LBR -----
197:19:30 35 40 45 50 55 197:20:00
031:30

```

```

1
2
ATS 172-0156
=====
4
DUMP M(6) M(8)
EVENT
HBR -----
LBR -----
197:20:00 05 10 15 20 25 197:20:30
032:00

```

197:19:00 032:10 CTE 197:20:30

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO:04

GMT DAY NO:197

PAGE:18A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:
137	ATS	160	20:30:45	20:32:10	H	D/T	
			: :	: :			
562	VAN	156	20:34:45	20:39:28	H	R/T	
562	VAN	157	20:39:30	20:39:42	L	R/T	
562	VAN	157	20:39:56	20:40:29	L	R/T	
			: :	: :			
147	ATS	348	20:51:	21:06:	L	D/T	NOT PROCESSED
			: :	: :			
147	ATS	159	21:05:13	21:05:41	L	R/T	
147	ATS	77	21:05:41	21:19:07	H	R/T	
			: :	: :			
137	ATS	160	21:37:44	21:53:49	H	R/T	
			: :	: :			
092	ATS	74	21:59:22	22:00:00	H	D/T	(CONT.ON 19A)
			: :	: :			

ASTP-TIME LINE (POST-MISSION)

PAGE 018

1

MIL

86-0176

=====

ROS

85-0265

===

VAN

84-0562

=====

DUMP

M(6)

M(6)

EVENT

HBR

LBR

197:20:30

35

40

45

50

55

197:21:00

86-0176

032:30

MIL

=====

87-0147

175-0137

ATS

=====

MAD

85-0265

=====

ROS

=====

DUMP

M(6)

*M(6) DUMP

EVENT

Δ REV 17

HBR

:

LBR

197:21:00

05

10

15

20

25

197:21:30

033:00

1

2

ATS

175-0137

=====

4

DUMP

M(7)

EVENT

HBR

LBR

197:21:30

35

40

45

50

55

197:22:00

033:30

197:20:30

033:40 CTE

197:22:00

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO:04/05

GMT DAY NO:197

PAGE:19A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:
---------------------	------	--------------------	--------------------------	------------------------	-------------	------------------	----------

092	ATS	74	22:00:00	22:03:12	H	D/T	
-----	-----	----	----------	----------	---	-----	--

092	ATS	222	22:03:31	22:07:56	L	D/T	
-----	-----	-----	----------	----------	---	-----	--

562	VAN	162	22:08:02	22:10:52	H	R/T	
-----	-----	-----	----------	----------	---	-----	--

092	ATS	222	22:11:09	22:11:20	L	D/T	
-----	-----	-----	----------	----------	---	-----	--

092	ATS	74	22:11:29	22:11:57	H	D/T	
-----	-----	----	----------	----------	---	-----	--

094	ATS	167	22:12:07	22:24:53	H	D/T	
-----	-----	-----	----------	----------	---	-----	--

160	GDS	26	22:23:59	22:28:39	H	R/T	
-----	-----	----	----------	----------	---	-----	--

160	GDS	223	22:28:41	22:30:01	L	R/T	
-----	-----	-----	----------	----------	---	-----	--

			:	:			
--	--	--	---	---	--	--	--

092	ATS	164	22:37:44	22:37:53	L	R/T	
-----	-----	-----	----------	----------	---	-----	--

092	ATS	74	22:38:03	22:40:37	H	R/T	
-----	-----	----	----------	----------	---	-----	--

			:	:			
--	--	--	---	---	--	--	--

092	ATS	74	22:45:48	23:01:15	H	R/T	
-----	-----	----	----------	----------	---	-----	--

093	ATS	75R	22:58:46	23:24:51	H	R/T	
-----	-----	-----	----------	----------	---	-----	--

BLOCK NO.05

094	ATS	224	23:25:19	23:29:08	L	D/T	
-----	-----	-----	----------	----------	---	-----	--

077	ORR	27	23:29:21	23:30:00	H	R/T	(CONT. ON 20A)
-----	-----	----	----------	----------	---	-----	----------------

ASTP-TIME LINE (POST-MISSION)

PAGE 019

1

2

```

GDS                                     93-0160
VAN                                     =====
          92-0562
          =====
DUMP  M(7)  M(7)  M(8)
EVENT *****
HBR  -----
LBR  -----
          197:22:00  05  10  15  20  25  197:22:30
                                034:00
  
```

1

```

MAD                                     =====
          95-0092
          =====
ATS                                     =====
4
DUMP  *M(7) DUMP
EVENT  Δ REV 18
HBR  :
LBR  :
          197:22:30  35  40  45  50  55  197:23:00
                                034:30
  
```

1

2

```

ORR                                     99-0077
          97-0093
          =====
ATS                                     =====
DUMP  M(8)
EVENT  *BLOCK 5
HBR  -----
LBR  -----
          197:23:00  05  10  15  20  25  197:23:30
                                035:00

197:22:00                                035:10 CTE                                197:23:30
  
```

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO:05

GMT DAY NO:197/198

PAGE:20A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:
---------------------	------	--------------------	--------------------------	------------------------	-------------	------------------	----------

077	ORR	27	23:30:00	23:31:04	H	R/T	
-----	-----	----	----------	----------	---	-----	--

094	ATS	224	23:31:24	23:46:41	L	D/T	
-----	-----	-----	----------	----------	---	-----	--

074	HAW	28	23:46:56	23:51:30	H	R/T	
-----	-----	----	----------	----------	---	-----	--

094	ATS	224	23:51:34	23:57:24	L	D/T	
-----	-----	-----	----------	----------	---	-----	--

160	GDS	223	23:57:14	23:57:32	L	R/T	
-----	-----	-----	----------	----------	---	-----	--

160	GDS	166	23:57:35	23:58:59	H	R/T	
-----	-----	-----	----------	----------	---	-----	--

094	ATS	224	23:59:04	00:09:29	L	D/T	
-----	-----	-----	----------	----------	---	-----	--

094	ATS	167	00:09:45	00:24:38	H	R/T	
-----	-----	-----	----------	----------	---	-----	--

			:	:			
--	--	--	---	---	--	--	--

094	ATS	167	00:39:18	00:57:19	H	R/T	
-----	-----	-----	----------	----------	---	-----	--

			:	:			
--	--	--	---	---	--	--	--

			:	:			
--	--	--	---	---	--	--	--

			:	:			
--	--	--	---	---	--	--	--

			:	:			
--	--	--	---	---	--	--	--

			:	:			
--	--	--	---	---	--	--	--

PAGE 020

```

1
2
3
RTS 103-0094
=====
DUMP
EVENT
HBR
=====
LBR
=====
198:00:30 35 40 45 50 55 198:01:00
036:30

```

197:23:30 036:40 CTE 198:01:00

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO:05/06

GMT DAY NO:198

PAGE:21A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:

			:	:	:	:	
--	--	--	---	---	---	---	--

077	ORR	29	01:01:06	01:03:05	L	R/T	
-----	-----	----	----------	----------	---	-----	--

			:	:	:	:	
--	--	--	---	---	---	---	--

076	HAW	32	01:19:09	01:20:16	L	R/T	
-----	-----	----	----------	----------	---	-----	--

076	HAW	31	01:20:17	01:21:01	H	R/T	
-----	-----	----	----------	----------	---	-----	--

076	HAW	32	01:21:03	01:23:16	L	R/T	
-----	-----	----	----------	----------	---	-----	--

			:	:	:	:	
--	--	--	---	---	---	---	--

120	BDA	34	01:39:50	01:40:07	L	R/T	
-----	-----	----	----------	----------	---	-----	--

120	BDA	33	01:40:08	01:47:04	H	R/T	
-----	-----	----	----------	----------	---	-----	--

BLOCK NO.06

095	ATS	402	01:42:23	02:30:00	H	R/T	POOR (CONT. ON 22A)
-----	-----	-----	----------	----------	---	-----	---------------------

			:	:	:	:	
--	--	--	---	---	---	---	--

			:	:	:	:	
--	--	--	---	---	---	---	--

			:	:	:	:	
--	--	--	---	---	---	---	--

			:	:	:	:	
--	--	--	---	---	---	---	--

ASTP-TIME LINE (POST-MISSION)

PAGE 021

1

2

HAW

106-0076

=====

105-0077

ORR

=====

ACN

DUMP

EVENT

HBR

=====

=====

LBR

198:01:00 05 10 15 20 25 198:01:30

037:00

1

ATS

109-0095

=====

BDA

108-0120

=====

ACN

110-0358D

=====

DUMP

ACN

EVENT

HBR

=====

REV 20A

*BLOCK 6

:

:

LBR

198:01:30 35 40 45 50 55 198:02:00

037:30

1

2

ATS

109-0095

=====

ACN

110-0358D

=====

DUMP

EVENT

HBR

LBR

198:02:00 05 10 15 20 25 198:02:30

038:00

198:01:00

038:10 CTE

198:02:30

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO:06

GMT DAY NO:198

PAGE:22A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:

095	ATS	402	02:30:00	02:34:31	H	R/T	POOR
096	ATS	404	02:32:09	02:41:02	H	D/T	
115	GWM	35	02:40:42	02:44:20	H	R/T	
115	GWM	36	02:44:23	02:45:36	L	R/T	
			: :	: :			
108	BDA	37	03:12:35	03:15:47	H	R/T	
			: :	: :			
108	BDA	37	03:17:06	03:19:09	H	R/T	
096	ATS	404	03:17:57	03:19:20	H	R/T	
			: :	: :			
096	ATS	404	03:29:35	04:00:00	H	R/T	(CONT. ON 23A)
			: :	: :			
			: :	: :			
			: :	: :			
			: :	: :			
			: :	: :			

ASTP-TIME LINE (POST-MISSION)

PAGE 022

1

2

ATS 109-0095

=====

112-0115

GWM

=====

M(9)

M(9)

DUMP

EVENT

HBR

LBR

+++++

198:02:30

35

40

45

50

55

198:03:00

MIL

115-0177

038:30

BDA

116-0108

ATS

117-0096

ROS

114-0266

DUMP

M(9)

*M(9) DUMP

EVENT

ΔREV 21

HBR

LBR

+++++

198:03:00

05

10

15

20

25

198:03:30

039:00

1

2

3

ATS 117-0096

=====

DUMP

EVENT

HBR

LBR

+++++

198:03:30

35

40

45

50

55

198:04:00

039:30

198:02:30

039:40 CTE

198:04:00

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO:06

GMT DAY NO:198

PAGE:23A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:
96	ATS	404	04:00:00	04:10:36	H	R/T	
			:	:			
106	GWM	38	04:13:52	04:15:55	H	R/T	
			:	:			
159	GDS	39	04:36:59	04:39:57	H	R/T	
100	ATS	416	04:39:32	04:42:24	H	D/T	
177	MIL	405	04:41:46	04:47:08	H	R/T	
100	ATS	416	04:47:01	04:57:00	H	D/T	
097	ATS	407	04:56:17	05:30:00	H	R/T	(CONT. ON 24A)
			:	:			
			:	:			
			:	:			
			:	:			
			:	:			

PAGE 023

1

2

119-0106

Year	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100
1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	

AT3 117-0035

TIME	M(10)	M(10)
0.00	0.00	0.00
0.05	0.05	0.05
0.10	0.10	0.10
0.15	0.15	0.15
0.20	0.20	0.20
0.25	0.25	0.25
0.30	0.30	0.30
0.35	0.35	0.35
0.40	0.40	0.40
0.45	0.45	0.45
0.50	0.50	0.50
0.55	0.55	0.55
0.60	0.60	0.60
0.65	0.65	0.65
0.70	0.70	0.70
0.75	0.75	0.75
0.80	0.80	0.80
0.85	0.85	0.85
0.90	0.90	0.90
0.95	0.95	0.95
1.00	1.00	1.00

COMP EVENT

EVENT
HBR

LEF

198:04:00 05 10 15 20 25 198:04:30

ATS

040:00 124-0097

QUI

123-0258
=====

MIL

122-0177
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120-0159

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198:04:30 35 40 45 50 55 198:05:00
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124-0097

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198:05:00 05 10 15 20 25 198:05:30
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041:10 CTE

198:05:30

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO:06

GMT DAY NO:198

PAGE:24A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:
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097	ATS	407	05:30:00	05:46:38	H	R/T	
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159	GDS	408	06:07:30	06:10:52	H	R/T	
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100	ATS	416	06:12:38	06:22:51	H	D/T	
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258	QUI	409	06:21:07	06:25:25	H	R/T	POOR & HAS 40 SEC GAP
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100	ATS	416	06:24:22	06:33:33	H	D/T	
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098	ATS	411	06:33:24	07:00:00	H	R/T	(CONT. ON 25A)
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ASTP-TIME LINE (POST-MISSION)

PAGE 024

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ATS 124-0097

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ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO: 06

GMT DAY NO:198

PAGE: 25A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MM:SEC	GMT TO HR:MM:SEC	BIT RATE	R/T OR D/T	REMARKS:

098	ATS	411	07:00:00	07:20:36	H	R/T
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226	AGO	412	08:03:03	08:04:02	H	R/T
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100	ATS	416	08:03:00	08:07:31	H	D/T
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099	ATS	413	08:07:14	08:30:00	H	R/T	(CONT. ON 26A)
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ASTP-TIME LINE (POST-MISSION)

PAGE 025

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ATS 131-0098

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M(12)

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198:07:00 05 10 15 20 25 198:07:30
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M(12)

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198:07:30 35 40 45 50 55 198:08:00
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ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO: 06

GMT DAY NO:198

PAGE: 26A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:
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099	ATS	413	08:30:00	08:55:02	H	R/T
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069	HAW	414	08:53:56	08:56:44	H	D/T
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075	HAW	415	09:06:24	09:09:38	H	R/T
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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466
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075	HAW	415	09:10:45	09:13:15	H	R/T
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100	ATS	416	09:39:41	09:45:28	H	R/T
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(The following text is extremely faint and largely illegible due to low contrast and blurring. It appears to be a long list or series of entries separated by commas or semicolons.)

ASTP-TIME LINE (POST-MISSION)

PAGE 026

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ATS 135-0099
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4

DUMP HAW
EVENT
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LBR

198:08:30 35 40 45 50 55 198:09:00
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HAW 138-0075
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DUMP
EVENT
HBR -----

LBR

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045:00

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ATS 140-0100
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DUMP *M(10),M(11),M(12) DUMP
EVENT
HBR AREV 25 -----

LBR

198:09:30 35 40 45 50 55 198:10:00
045:30

198:08:30

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198:10:00

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO:06/07

GMT DAY NO:198

PAGE:27A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:
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100	ATS	416	10:25:17	10:26:55	H	R/T	
-----	-----	-----	----------	----------	---	-----	--

			:	:			
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069	HAW	417	10:39:05	10:40:23	H	R/T	
-----	-----	-----	----------	----------	---	-----	--

069	HAW	417	10:40:31	10:42:36	H	R/T	
-----	-----	-----	----------	----------	---	-----	--

			:	:			
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563	VAN	418	10:49:09	10:54:41	H	R/T	
-----	-----	-----	----------	----------	---	-----	--

			:	:			
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101	ATS	419	11:09:52	11:11:00	H	R/T	HAS 15 SEC GAP
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BLOCK NO.07

101	ATS	419	11:11:00	11:29:14	H	R/T	
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			:	:			
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			:	:			
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			:	:			
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			:	:			
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ASTP-TIME LINE (POST-MISSION)

PAGE 027

1

2

3

140-0100
ATS =====

DUMP
EVENT
HBR -----

LBR
+-----+
198:10:00 05 10 15 20 25 198:10:30
046:00

1

2

143-0563D
VAN =====

142-0069D
HAW =====

DUMP
EVENT
HBR -----

LBR
+-----+
198:10:30 35 40 45 50 55 198:11:00
046:30

1

2

144-0101
ATS =====

4

DUMP
EVENT
HBR -----
ΔREV 26 ΔBLOCK 7

LBR
+-----+
198:11:00 05 10 15 20 25 198:11:30
047:00

198:10:00

047:10 CTE

198:11:30

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO: 07

GMT DAY NO:198

PAGE: 28A

[illegible]

ASTP-TIME LINE (POST-MISSION)

PAGE 028

1

2

ATS 144-0101
=====

4

DUMP VAN VAN
EVENT
HBR

LBR

+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
198:11:30 35 40 45 50 55 198:12:00
047:30

1

2

VAN 146-0564D
=====

4

DUMP VAN
EVENT
HBR

LBR

+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
198:12:00 05 10 15 20 25 198:12:30
048:00

1

ACN 148-0377
=====

ATS 147-0102
=====

4

DUMP
EVENT
HBR

LBR

+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
198:12:30 35 40 45 50 55 198:13:00
048:30

198:11:30 048:40 CTE 198:13:00

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO: 07

GMT DAY NO:198

PAGE: 29A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:
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102	ATS	746	13:00:00	13:10:	H	R/T	NOT PROCESSED
-----	-----	-----	----------	--------	---	-----	---------------

[illegible]

100	010	710	41 07	41 77	41	501	NOT RECORDED
-----	-----	-----	-------	-------	----	-----	--------------

102	HIS	746	13:23:	13:35:	H	R71	NOT PROCESSED

070	GWM	748	13:35:	13:41:	H	R/T	NOT PROCESSED
-----	-----	-----	--------	--------	---	-----	---------------

148	ATS	502	13:31:43	13:35:08	H	D/T	-
-----	-----	-----	----------	----------	---	-----	---

[illegible]

148	ATS	502	14:06:23	14:12:24	H	D/T
-----	-----	-----	----------	----------	---	-----

211	960	759	14-12-	14-17-	H	R/T	NOT PROCESSED
-----	-----	-----	--------	--------	---	-----	---------------

117	RES	117	11-12-	11-11-	0	R21	NOT PROCESSED
121	RES	121	11-11-	11-11-	0	R21	NOT PROCESSED

103	HIS	760	14:16:	14:29:	H	R/T	NOT PROCESSED
-----	-----	-----	--------	--------	---	-----	---------------

[illegible]

Country	Year	Value
Algeria	2010	0.00
Algeria	2011	0.00
Algeria	2012	0.00
Algeria	2013	0.00
Algeria	2014	0.00
Algeria	2015	0.00
Algeria	2016	0.00
Algeria	2017	0.00
Algeria	2018	0.00
Algeria	2019	0.00
Algeria	2020	0.00
Algeria	2021	0.00
Algeria	2022	0.00
Algeria	2023	0.00
Algeria	2024	0.00
Algeria	2025	0.00
Algeria	2026	0.00
Algeria	2027	0.00
Algeria	2028	0.00
Algeria	2029	0.00
Algeria	2030	0.00
Algeria	2031	0.00
Algeria	2032	0.00
Algeria	2033	0.00
Algeria	2034	0.00
Algeria	2035	0.00
Algeria	2036	0.00
Algeria	2037	0.00
Algeria	2038	0.00
Algeria	2039	0.00
Algeria	2040	0.00
Algeria	2041	0.00
Algeria	2042	0.00
Algeria	2043	0.00
Algeria	2044	0.00
Algeria	2045	0.00
Algeria	2046	0.00
Algeria	2047	0.00
Algeria	2048	0.00
Algeria	2049	0.00
Algeria	2050	0.00
Algeria	2051	0.00
Algeria	2052	0.00
Algeria	2053	0.00
Algeria	2054	0.00
Algeria	2055	0.00
Algeria	2056	0.00
Algeria	2057	0.00
Algeria	2058	0.00
Algeria	2059	0.00
Algeria	2060	0.00
Algeria	2061	0.00
Algeria	2062	0.00
Algeria	2063	0.00
Algeria	2064	0.00
Algeria	2065	0.00
Algeria	2066	0.00
Algeria	2067	0.00
Algeria	2068	0.00
Algeria	2069	0.00
Algeria	2070	0.00
Algeria	2071	0.00
Algeria	2072	0.00
Algeria	2073	0.00
Algeria	2074	0.00
Algeria	2075	0.00
Algeria	2076	0.00
Algeria	2077	0.00
Algeria	2078	0.00
Algeria	2079	0.00
Algeria	2080	0.00
Algeria	2081	0.00
Algeria	2082	0.00
Algeria	2083	0.00
Algeria	2084	0.00
Algeria	2085	0.00
Algeria	2086	0.00
Algeria	2087	0.00
Algeria	2088	0.00
Algeria	2089	0.00
Algeria	2090	0.00
Algeria	2091	0.00
Algeria	2092	0.00
Algeria	2093	0.00
Algeria	2094	0.00
Algeria	2095	0.00
Algeria	2096	0.00
Algeria	2097	0.00
Algeria	2098	0.00
Algeria	2099	0.00
Algeria	2100	0.00
Algeria	2101	0.00
Algeria	2102	0.00
Algeria	2103	0.00
Algeria	2104	0.00
Algeria	2105	0.00
Algeria	2106	0.00
Algeria	2107	0.00
Algeria	2108	0.00
Algeria	2109	0.00
Algeria	2110	0.00
Algeria	2111	0.00
Algeria	2112	0.00
Algeria	2113	0.00
Algeria	2114	0.00
Algeria	2115	0.00
Algeria	2116	0.00
Algeria	2117	0.00
Algeria	2118	0.00
Algeria	2119	0.00
Algeria	2120	0.00
Algeria	2121	0.00
Algeria	2122	

[illegible]

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	5
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[illegible]

ASTP-TIME LINE (POST-MISSION)

PAGE 029

1

2

3

ATS 147-0102
=====

DUMP
EVENT
HBR -----

LBR
+-----+
198:13:00 05 10 15 20 25 198:13:30
049:00

1

ATS 147-0102
=====

GWM 149-0070
=====

4

DUMP M(13) M(13)
EVENT
HBR -----

LBR
+-----+
198:13:30 35 40 45 50 55 198:14:00
049:30

1

ATS 151-0103
=====

3

AGD 150-0211
=====

DUMP M(13) M(13) M(13)
EVENT
HBR -----

LBR
+-----+
198:14:00 05 10 15 20 25 198:14:30
050:00

198:13:00

050:10 CTE

198:14:30

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO: 07

GMT DAY NO:198

PAGE: 30A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MM:SEC	GMT TO HR:MM:SEC	BIT RATE	R/T OR D/T	REMARKS:

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103	ATS	750	14:37:	15:08:	H	R/T	NOT PROCESSED
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148	ATS	502	15:11:01	15:17:01	H	D/T
-----	-----	-----	----------	----------	---	-----

211	AG0	752	15:45:37	15:47:29	H	R/T
-----	-----	-----	----------	----------	---	-----

136	ATS	685	15:56:15	16:00:00	H	D/T	(CONT. ON 31A)
-----	-----	-----	----------	----------	---	-----	----------------

ASTP-TIME LINE (POST-MISSION)

PAGE 030

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1
ATS 151-0103
=====

MAD =====

4
M(13) M(13)
DUMP  M(13) M(13)
EVENT M(13) M(13)
HBR -----

LBR -----
+++++
198:14:30 35 40 45 50 55 198:15:00
050:30

1
153-0072
ORR =====
ATS 151-0103
=====

4
M(13) M(14)
DUMP  M(13) M(14)
EVENT M(13) M(14)
HBR -----

LBR -----
+++++
198:15:00 05 10 15 20 25 198:15:30
051:00

1
154-0211
AG0 =====
ATS 155-0104
=====

4
M(14) M(14) M(16)
DUMP  M(14) M(14) M(16)
EVENT M(14) M(14) M(16)
HBR -----

LBR -----
+++++
198:15:30 35 40 45 50 55 198:16:00
051:30

198:14:30 051:40 CTE 198:16:00

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ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO:07/08

GMT DAY NO:198

PAGE:31A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:
136	ATS	685	16:00:00	16:01:47	H	D/T	
104	ATS	40	16:01:36	16:02:05	H	D/T	
			: :	: :			
104	MAD	04	16:09:38	16:15:06	H	R/T	
			: :	: :			
073	ORR	753	16:21:53	16:25:17	H	D/T	FAIR HAS THREE,3 SEC GAPS
			: :	: :			
104	ATS	40	16:32:43	16:48:49	H	R/T	

BLOCK NO.08

073	ORR	499	16:49:44	16:55:39	H	R/T	
			: :	: :			
366	QUI	500	17:23:55	17:24:15	H	R/T	
366	QUI	500	17:25:01	17:27:36	H	R/T	
071	BDA	501	17:29:02	17:30:00	H	R/T	VERY POOR(CONT. ON 32A)
			: :	: :			

ASTP-TIME LINE (POST-MISSION)

PAGE 031

1

2

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MAD                      =====
ATS  155-0104
=====
DUMP  MC(16)
EVENT  ORR
HBR  -----
      :
LBR  -----
      :
      +-----+
198:16:00    05    10    15    20    25    198:16:30
                        052:00
  
```

1

2

```

ORR                      157-00730
                        =====
ATS  155-0104
=====
DUMP  -----
EVENT  ΔBLOCK 8
HBR  -----
      :
LBR  -----
      :
      +-----+
198:16:30    35    40    45    50    55    198:17:00
                        052:30
  
```

1

```

BDA                      159-0071
                        ==
  
```

3

```

QUI                      158-0366
                        =====
DUMP  -----
EVENT  ΔREV 30
HBR  -----
      :
LBR  -----
      :
      +-----+
198:17:00    05    10    15    20    25    198:17:30
                        053:00
  
```

198:16:00

053:10 CTE

198:17:30

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO: 08

GMT DAY NO:198

PAGE: 32A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:

071	BDA	501	17:30:00	17:31:03	H	R/T	VERY POOR
-----	-----	-----	----------	----------	---	-----	-----------

071	BDA	501	17:31:03	17:36:55	H	R/T
-----	-----	-----	----------	----------	---	-----

[illegible]

148	ATS	502	17:46:57	17:50:10	H	R/T
-----	-----	-----	----------	----------	---	-----

[illegible]

148	ATS	502	17:56:15	18-02-52	H	PAT
-----	-----	-----	----------	----------	---	-----

1990	1991	1992	1993-1994	1995-1996	n	KPI

148	OTS	502	10-21-74	10-24-74	11	2-7
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176	HTS	502	18:21:34	18:24:14	H	R7

[illegible]

178	MIL	503	18:58:32	19:00:00	H	R/T	POOR (CONT. ON 33A)
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[illegible]

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466
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ASTP-TIME LINE (POST-MISSION)

PAGE 032

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160-0148
 ATS =====
 BDA 159-0071 =====

DUMP
 EVENT
 HBR -----

LBR
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 198:17:30 35 40 45 50 55 198:18:00
 053:30

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3

160-0148
 ATS =====

DUMP ΔM(13), M(14) DUMP
 EVENT
 HBR -----

LBR
 +-----+
 198:18:00 05 10 15 20 25 198:18:30
 054:00

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3

MIL 163-0178
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DUMP
 EVENT
 HBR -----

LBR
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 198:18:30 35 40 45 50 55 198:19:00
 054:30

198:17:30

054:40 CTE

198:19:00

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO:08

GMT DAY NO:198

PAGE:33A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:
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178	MIL	503	19:00:00	19:06:22	H	R/T	POOR (HAS 13 & 10 SEC GAP)
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146	MAD	505	19:17:11	19:20:21	H	R/T	
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549	VAN	506	20:09:	20:15:	H	R/T	NOT PROCESSED
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ASTP-TIME LINE (POST-MISSION)

PAGE 033

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MAD
ATS      167-0146
BDA      165-0116
MIL      163-0178
DUMP     M(15)      VAN
EVENT    ΔREV31
HBR      -----
LBR      :
          +-----+
          198:19:00  05      10      15      20      25      198:19:30
                                055:00

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1

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3

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ATS      167-0146
VAN
DUMP     VAN
EVENT
HBR
LBR      -----
          +-----+
          198:19:30  35      40      45      50      55      198:20:00
                                055:30

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1

2

3

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VAN      169-0549D
VAN
DUMP     M(15)
EVENT
HBR
LBR      -----
          +-----+
          198:20:00  05      10      15      20      25      198:20:30
                                056:00

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198:19:00

056:10 CTE

198:20:30

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO:08

GMT DAY NO:198

PAGE:34A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:

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134	ATS	507	20:40:	21:30:	H	R/T	NOT PROCESSED
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134	MAD	508	20:49:	20:53:	H	R/T	NOT PROCESSED
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550	VAN	509	21:42:	21:46:	H	R/T	NOT PROCESSED
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ASTP-TIME LINE (POST-MISSION)

PAGE 034

MIL 170-0178
 =====
 ROS 171-0346
 =====
 ATS 173-0134
 =====
 MAD =====
 M(15) VAN
 DUMP
 EVENT
 HBR
 LBR
 198:20:30 35 40 45 50 55 198:21:00
 056:30

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2

3

ATS 173-0134
 =====
 VAN
 DUMP
 EVENT
 HBR
 LBR
 198:21:00 05 10 15 20 25 198:21:30
 057:00

1

2

GDS 177-0158
 =====
 VAN 176-0550D
 =====
 VAN M(15)
 DUMP
 EVENT
 HBR
 LBR
 198:21:30 35 40 45 50 55 198:22:00
 057:30

198:20:30

057:40 CTE

198:22:00

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO:08/09

GMT DAY NO:198

PAGE:35A

 SITE | SITE | DATA | GMT | GMT | BIT | R/T |
 TAPE | REQ | NO. | FROM | TO | RATE | OR | REMARKS:
 NO. | | | HR:MN:SEC | HR:MN:SEC | D/T |

158	GDS	510	22:00:	22:05:	H	R/T	NOT PROCESSED
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133	ATS	511	22:13:	22:16:	H	R/T	NOT PROCESSED
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133	MAD	512	22:24:	22:28:	H	R/T	NOT PROCESSED
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143	ORR	513	23:05:	23:09:	H	R/T	NOT PROCESSED
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306	HAW	514	23:26:	23:28:	H	R/T	NOT PROCESSED
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BLOCK NO:09

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ASTP-TIME LINE (POST-MISSION)

PAGE 035

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1
ATS      179-0133
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MAD
GDS      177-0158
=====
DUMP      M(15)      M(15)      M(16)
EVENT    ΔREV 33      ΔM(15) DUMP
HBR      -----
LBR      -----
+-----+
198:22:00 05      10      15      20      25      198:22:30
058:00

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1
2
ATS      179-0133
=====
4
DUMP      M(16)
EVENT
HBR
LBR
+-----+
198:22:30 35      40      45      50      55      198:23:00
058:30

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1
HAW      183-0306D
=====
ORR      182-0143
=====
ATS      179-0133
=====
DUMP      M(16)      M(16)      M(16)
EVENT
HBR      -----
LBR
+-----+
198:23:00 05      10      15      20      25      198:23:30
059:00

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198:22:00 059:10 CTE 198:23:30

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO: 09

GMT DAY NO:198/199

PAGE: 36A

SITE 1 (2012) *****

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MM:SEC	GMT TO HR:MM:SEC	BIT RATE	R/T OR D/T	REMARKS:

[illegible]

158	GDS	684	23:34:23	23:36:09	H	R/T
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1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063 2064 2065 2066 2067 2068 2069 2070 2071 2072 2073 2074 2075 2076 2077 2078 2079 2080 2081 2082 2083 2084 2085 2086 2087 2088 2089 2090 2091 2092 2093 2094 2095 2096 2097 2098 2099 2100 2101 2102 2103 2104 2105 2106 2107 2108 2109 2110 2111 2112 2113 2114 2115 2116 2117 2118 2119 2120 2121 2122 2123 2124 2125 2126 2127 2128 2129 2130 2131 2132 2133 2134 2135 2136 2137 2138 2139 2140 2141 2142 2143 2144 2145 2146 2147 2148 2149 2150 2151 2152 2153 2154 2155 2156 2157 2158 2159 2160 2161 2162 2163 2164 2165 2166 2167 2168 2169 2170 2171 2172 2173 2174 2175 2176 2177 2178 2179 2180 2181 2182 2183 2184 2185 2186 2187 2188 2189 2190 2191 2192 2193 2194 2195 2196 2197 2198 2199 2200 2201 2202 2203 2204 2205 2206 2207 2208 2209 2210 2211 2212 2213 2214 2215 2216 2217 2218 2219 2220 2221 2222 2223 2224 2225 2226 2227 2228 2229 2230 2231 2232 2233 2234 2235 2236 2237 2238 2239 2240 2241 2242 2243 2244 2245 2246 2247 2248 2249 2250 2251 2252 2253 2254 2255 2256 2257 2258 2259 2260 2261 2262 2263 2264 2265 2266 2267 2268 2269 2270 2271 2272 2273 2274 2275 2276 2277 2278 2279 2280 2281 2282 2283 2284 2285 2286 2287 2288 2289 2290 2291 2292 2293 2294 2295 2296 2297 2298 2299 2300 2301 2302 2303 2304 2305 2306 2307 2308 2309 2310 2311 2312 2313 2314 2315 2316 2317 2318 2319 2320 2321 2322 2323 2324 2325 2326 2327 2328 2329 2330 2331 2332 2333 2334 2335 2336 2337 2338 2339 2340 2341 2342 2343 2344 2345 2346 2347 2348 2349 2350 2351 2352 2353 2354 2355 2356 2357 2358 2359 2360 2361 2362 2363 2364 2365 2366 2367 2368 2369 2370 2371 2372 2373 2374 2375 2376 2377 2378 2379 2380 2381 2382 2383 2384 2385 2386 2387 2388 2389 2390 2391 2392 2393 2394 2395 2396 2397 2398 2399 2400 2401 2402 2403 2404 2405 2406 2407 2408 2409 2410 2411 2412 2413 2414 2415 2416 2417 2418 2419 2420 2421 2422 2423 2424 2425 2426 2427 2428 2429 2430 2431 2432 2433 2434 2435 2436 2437 2438 2439 2440 2441 2442 2443 2444 2445 2446 2447 2448 2449 2450 2451 2452 2453 2454 2455 2456 2457 2458 2459 2460 2461 2462 2463 2464 2465 2466 2467 2468 2469 2470 2471 2472 2473 2474 2475 2476 2477 2478 2479 2480 2481 2482 2483 2484 2485 2486 2487 2488 2489 2490 2491 2492 2493 2494 2495 2496 2497 2498 2499 2500 2501 2502 2503 2504 2505 2506 2507 2508 2509 2510 2511 2512 2513 2514 2515 2516 2517 2518 2519 2520 2521 2522 2523 2524 2525 2526 2527 2528 2529 2530 2531 2532 2533 2534 2535 2536 2537 2538 2539 2540 2541 2542 2543 2544 2545 2546 2547 2548 2549 2550 2551 2552 2553 2554 2555 2556 2557 2558 2559 2560 2561 2562 2563 2564 2565 2566 2567 2568 2569 2570 2571 2572 2573 2574 2575 2576 2577 2578 2579 2580 2581 2582 2583 2584 2585 2586 2587 2588 2589 2590 2591 2592 2593 2594 2595 2596 2597 2598 2599 2600 2601 2602 2603 2604 2605 2606 2607 2608 2609 2610 2611 2612 2613 2614 2615 2616 2617 2618 2619 2620 2621 2622 2623 2624 2625 2626 2627 2628 2629 2630 2631 2632 2633 2634 2635 2636 2637 2638 2639 2640 2641 2642 2643 2644 2645 2646 2647 2648 2649 2650 2651 2652 2653 2654 2655 2656 2657 2658 2659 2660 2661 2662 2663 2664 2665 2666 2667 2668 2669 2670 2671 2672 2673 2674 2675 2676 2677 2678 2679 2680 2681 2682 2683 2684 2685 2686 2687 2688 2689 2690 2691 2692 2693 2694 2695 2696 2697 2698 2699 2700 2701 2702 2703 2704 2705 2706 2707 2708 2709 2710 2711 2712 2713 2714 2715 2716 2717 2718 2719 2720 2721 2722 2723 2724 2725 2726 2727 2728 2729 2730 2731 2732 2733 2734 2735 2736 2737 2738 2739 2740 2741 2742 2743 2744 2745 2746 2747 2748 2749 2750 2751 2752 2753 2754 2755 2756 2757 2758 2759 2760 2761 2762 2763 2764 2765 2766 2767 2768 2769 2770 2771 2772 2773 2774 2775 2776 2777 2778 2779 2780 2781 2782 2783 2784 2785 2786 2787 2788 2789 2790 2791 2792 2793 2794 2795 2796 2797 2798 2799 2800 2801 2802 2803 2804 2805 2806 2807 2808 2809 2810 2811 2812 2813 2814 2815 2816 2817

[illegible]

136	ATS	685	23:46:00	00:22:43	H	R/T
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136	HIS	685	00:36:06	00:36:47	H	R/T	VERY POOR
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112	OKR	686	00:40:	00:42:	H	R/T	NOT PROCESSED
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302	HAW	687	00:55-	00:58-	H	047	NOT	0000000000
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ASTP-TIME LINE (POST-MISSION)

PAGE 036

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ATS 186-0136
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GDS 184-0158
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M(16) M(16)
DUMP M(16) M(16)
EVENT M(16) M(16)
HBR M(16) M(16)
LBR M(16) M(16)
198:23:30 35 40 45 50 55 199:00:00
059:30

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ATS 186-0136
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DUMP M(16) DUMP
EVENT M(16) DUMP
HBR M(16) DUMP
LBR M(16) DUMP
199:00:00 05 10 15 20 25 199:00:30
060:00

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1
HAW 188-0302
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ORR 187-01420
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ATS 186-0136
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DUMP BDR
EVENT BDR
HBR BDR
LBR BDR
199:00:30 35 40 45 50 55 199:01:00
060:30

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198:23:30 060:40 CTE 199:01:00

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO:09

GMT DAY NO:199

PAGE:37A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:

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107	BDA	688	01:20:18	01:24:28	H	R/T	POOR
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188	ATS	689	01:20:18	02:12:10	H	R/T	
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187	ATS	356	02:12:57	02:18:52	H	D/T	
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192	GWM	691	02:18:26	02:23:47	H	R/T	
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187	ATS	356	02:23:04	02:24:20	H	D/T	
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ASTP-TIME LINE (POST-MISSION)

PAGE 037

HAW 188-0302
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ATS

191-0188

BDA

190-0107D

4

BDA

DUMP *****

EVENT

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HBR

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LBR

199:01:00 05 10 15 20 25 199:01:30
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192-0486

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191-0188

ATS

DUMP

EVENT

HBR

LBR

199:01:30 35 40 45 50 55 199:02:00
061:30

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2

193-0192

GWM

191-0188

ATS

M(17)

M(17)

DUMP

EVENT

HBR

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199:02:00 05 10 15 20 25 199:02:30
062:00

199:01:00

062:10 CTE

199:02:30

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO:09

GMT DAY NO:199

PAGE:38A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:

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179	MIL	693	02:47:32	02:50:11	H	R/T	VERY POOR HAS 17 SEC GAP
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347	RDS	692	02:50:07	02:50:47	H	R/T	
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138	BDA	694	02:49:36	02:56:36	H	R/T	
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205	ATS	695R	02:56:55	03:19:58	H	R/T	
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205	ATS	695R	03:23:35	03:49:07	H	R/T	POOR
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204	GWM	696	03:52:05	03:54:46	H	R/T	
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ASTP-TIME LINE (POST-MISSION)

PAGE 038

```

ATS                                     197-0205
                                     =====
BDA                                     196-0138
                                     =====
MIL                                     195-0179
                                     =====
ROS                                     194-0347
                                     =====

DUMP
EVENT
HBR                                     ΔREV 36
                                     -----
LBR                                     :
                                     :
+-----+-----+-----+-----+-----+-----+
199:02:30      35      40      45      50      55      199:03:00
                                     062:30

```

1

2

3

```

ATS 197-0205
=====

DUMP
EVENT
HBR -----

LBR
+-----+-----+-----+-----+-----+-----+
199:03:00      05      10      15      20      25      199:03:30
                                     063:00

```

1

2

```

GWM                                     198-0204
                                     =====
ATS 197-0205
=====
                                     M(17)      M(17)
                                     #####      #####
DUMP
EVENT
HBR -----

LBR
+-----+-----+-----+-----+-----+-----+
199:03:30      35      40      45      50      55      199:04:00
                                     063:30

```

199:02:30

063:40 CTE

199:04:00

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO: 09

GMT DAY NO:199

PAGE: 39A

SITE	SITE	DATA	GMT	GMT	BIT	R/T	REMARKS:
TAPE	REQ	FROM	TO		OR		
NO.	NO.	HR:MN:SEC	HR:MN:SEC	RATE	D/T		

			:	:			

172	GDS	697	04:14:36	04:18:08	H	R/T	
187	ATS	356	04:18:08	04:20:43	H	D/T	
179	MIL	698	04:20:36	04:25:23	H	R/T	
187	ATS	356	04:25:16	04:28:57	H	D/T	
461	QUI	699	04:28:37	04:31:32	H	R/T	
187	ATS	356	04:30:52	04:35:28	H	D/T	
186	ATS	700R	04:34:59	05:08:09	H	R/T	FAIR
186	ATS	700R	05:08:09	05:27:28	H	R/T	

BLOCK NO: 10

[illegible]

ASTP-TIME LINE (POST-MISSION)

PAGE 039

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1
QUI                                     201-0461
                                     =====
MIL                                     200-0179
                                     =====
GDS                                     199-0172
                                     =====
DUMP  M(17)
EVENT  ~~~~~
HBR    ~~~~~

LBR  ~~~~~
      +-----+
199:04:00  05      10      15      20      25      199:04:30
                                     064:00

```

```

1
QUI  201-0461
=====
ATS  202-0186
=====
QUI
DUMP  M(18)
EVENT  ~~~~~
HBR    ~~~~~

LBR  ~~~~~
      +-----+
199:04:30  35      40      45      50      55      199:05:00
                                     064:30

```

```

1
2
3
ATS  202-0186
=====
DUMP  M(18)
EVENT  ~~~~~
HBR    ~~~~~

LBR  ~~~~~
      +-----+
199:05:00  05      10      15      20      25      199:05:30
                                     065:00

```

199:04:00

065:10 CTE

199:05:30

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO:10

GMT DAY NO:199

PAGE:40A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:
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172	GDS	353	05:46:14	05:51:25	H	R/T	HAS 13 SEC GAP
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			:	:	:	:	
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461	QUI	354	06:02:11	06:04:01	H	R/T	HAS 7 SEC GAP
-----	-----	-----	----------	----------	---	-----	---------------

			:	:	:	:	
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129	AGO	355	06:07:10	06:12:30	H	R/T	
-----	-----	-----	----------	----------	---	-----	--

			:	:	:	:	
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187	ATS	356	06:11:59	06:18:29	H	R/T	
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187	ATS	356	06:49:10	07:00:00	H	R/T	(CONT. ON 41A)
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ASTP-TIME LINE (POST-MISSION)

PAGE 040

1

2

3

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GDS      203-0172
          =====
DUMP      M(18)
EVENT     M(18)
HBR       -----

LBR       -----
          +-----+
199:05:30  35      40      45      50      55      199:06:00
                      065:30
  
```

1

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ATS      206-0187
          =====
AGO      205-0129
          =====
QUI      204-0461
          =====
DUMP      (M18) (M18)
EVENT     ΔREV 38
HBR       -----
          :
LBR       -----
          +-----+
199:06:00  05      10      15      20      25      199:06:30
                      066:00
  
```

1

2

3

```

ATS      206-0187
          =====
DUMP
EVENT
HBR       -----

LBR       -----
          +-----+
199:06:30  35      40      45      50      55      199:07:00
                      066:30
  
```

199:05:30

066:40 CTE

199:07:00

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO: 10

GMT DAY NO:199

PAGE: 41A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:
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187	ATS	356	07:00:00	07:01:16	H	R/T
-----	-----	-----	----------	----------	---	-----

129	AGO	357	07:41:35	07:42:29	H	R/T
-----	-----	-----	----------	----------	---	-----

189	ATS	358	08:01:25	08:30:00	H	R/T	(CONT. ON 42A)
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ASTP-TIME LINE (POST-MISSION)

PAGE 041

1

2

3

206-0187

ATS =====

HAW

DUMP *****

EVENT

HBR -----

LBR

199:07:00 05 10 15 20 25 199:07:30
067:00

1

2

ATS

208-0189

=====

AGO

207-0129

=====

HAW

HAW

DUMP *****

EVENT

ΔREV 39

HBR

: ---

:

LBR

199:07:30 35 40 45 50 55 199:08:00
067:30

1

2

3

208-0189

ATS =====

HAW

DUMP ***

EVENT

HBR -----

LBR

199:08:00 05 10 15 20 25 199:08:30
068:00

199:07:00

068:10 CTE

199:08:30

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO:10

GMT DAY NO:199

PAGE:42A

 SITE | DATA | GMT | GMT | BIT | R/T |
 TAPE | SITE | REQ | FROM | TO | OR | REMARKS:
 NO. | NO. | HR:MN:SEC | HR:MN:SEC | RATE | D/T |

189	ATS	358	08:30:00	08:35:36	H	R/T
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307	HAW	359	08:48:18	08:52:38	H	R/T	HAS 8 SEC GAP
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201	ATS	360	09:18:44	09:24:36	H	R/T
-----	-----	-----	----------	----------	---	-----

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201	ATS	360	09:47:55	09:48:53	H	R/T
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BLOCK NO:11

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ASTP-TIME LINE (POST-MISSION)

PAGE 042

1

2

HAW

210-0307D

ATS 208-0189

=====

DUMP

EVENT

HBR

LBR

199:08:30 35 40 45 50 55 199:09:00
068:30

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3

ATS

211-0201

DUMP

EVENT

HBR

ACN

AREV 40

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LBR

199:09:00 05 10 15 20 25 199:09:30
069:00

1

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3

ATS 211-0201

=====

DUMP

EVENT

HBR

ACN

ACN

VAN

*BLOCK 11

LBR

199:09:30 35 40 45 50 55 199:10:00
069:30

199:08:30

069:40 CTE

199:10:00

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO:11

GMT DAY NO:199

PAGE:43A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:
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201	ATS	360	10:06:51	10:07:25	H	R/T	
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303	HAW	701	10:21:	10:22:	H	R/T	NOT PROCESSED
-----	-----	-----	--------	--------	---	-----	---------------

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551	VAN	702	10:30:	10:34:	H	R/T	NOT PROCESSED
-----	-----	-----	--------	--------	---	-----	---------------

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213	ATS	703	10:52:32	10:53:59	H	R/T	
-----	-----	-----	----------	----------	---	-----	--

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487	ACN	704	11:06:	11:08:	H	R/T	NOT PROCESSED
-----	-----	-----	--------	--------	---	-----	---------------

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ASTP-TIME LINE (POST-MISSION)

PAGE 043

```

1
VAN
HAW
ATS 211-0201
DUMP VAN VAN VAN
EVENT
HBR
LBR
199:10:00 05 10 15 20 25 199:10:30
070:00

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```

1
2
ATS 214-0213
VAN 213-0551D
DUMP ACN ACN VAN
EVENT ΔREV 41
HBR
LBR
199:10:30 35 40 45 50 55 199:11:00
070:30

```

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1
2
ACN 215-0487
ATS 214-0213
DUMP VAN VAN
EVENT
HBR
LBR
199:11:00 05 10 15 20 25 199:11:30
071:00

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199:10:00

071:10 CTE

199:11:30

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO:11

GMT DAY NO:199

PAGE:44A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:

			:	:	:	:	
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213	ATS	703	11:39:05	11:39:47	H	R/T	
-----	-----	-----	----------	----------	---	-----	--

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552	VAN	705	12:01:	12:07:	H	R/T	NOT PROCESSED
-----	-----	-----	--------	--------	---	-----	---------------

			:	:	:	:	
--	--	--	---	---	---	---	--

212	ATS	706R	12:25:09	12:35:44	H	R/T	POOR
-----	-----	------	----------	----------	---	-----	------

488	ACN	707	12:35:21	12:42:09	H	R/T	HAS 10 SEC GAP
-----	-----	-----	----------	----------	---	-----	----------------

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ASTP-TIME LINE (POST-MISSION)

PAGE 044

1

2

3

```

214-0213
ATS =====
VAN VAN
DUMP *****
EVENT *****
HBR --
LBR -----
+-----+
199:11:30 35 40 45 50 55 199:12:00
071:30
  
```

1

2

```

217-0212
ATS =====
216-0552D
VAN VAN ACN
DUMP *** *****
EVENT ΔREV 42
HBR -----
LBR -----
+-----+
199:12:00 05 10 15 20 25 199:12:30
072:00
  
```

1

2

```

218- 0488D
ACN =====
217-0212
ATS =====
AGO
DUMP *****
EVENT *****
HBR -----
LBR -----
+-----+
199:12:30 35 40 45 50 55 199:13:00
072:30
  
```

199:11:30

072:40 CTE

199:13:00

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO:11/12

GMT DAY NO:199

PAGE:45A

 SITE TAPE NO. | SITE | DATA REQ NO. | GMT FROM HR:MM:SEC | GMT TO HR:MM:SEC | BIT RATE | R/T OR D/T | REMARKS:

212	ATS	706R	13:06:38	13:15:30	H	R/T	
			:	:			
200	GWM	708	13:17:	13:24:	H	R/T	NOT PROCESSED
			:	:			
132	AG0	709	13:54:	14:00:	H	R/T	NOT PROCESSED

BLOCK NO:12

214	ATS	710	14:00:05	14:04:12	H	R/T	
			:	:			
214	MAD	711	14:19:	14:25:	H	R/T	NOT PROCESSED
			:	:			
			:	:			
			:	:			
			:	:			
			:	:			

ASTP-TIME LINE (POST-MISSION)

PAGE 045

1

2

```

GWM                219-0200
                   =====
ATS  217-0212
    =====
    AGO
DUMP  DUMP
EVENT EVENT
HBR   HBR
LBR   LBR
199:13:00  05      10      15      20      25      199:13:30
                   073:00
  
```

1

AGO

220-0132
=====

3

ATS

221-0214
=====

AGO

DUMP DUMP

EVENT

HBR

ΔREV 43 *BLOCK 12
:
:

LBR

```

199:13:30  35      40      45      50      55      199:14:00
                   073:30
  
```

1

MAD

221-0214

ATS

4

DUMP

EVENT

HBR

BDA/M(19)

BDA

LBR

```

199:14:00  05      10      15      20      25      199:14:30
                   074:00
  
```

199:13:00

074:10 CTE

199:14:30

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO: 12

GMT DAY NO: 199

PAGE: 46A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MM:SEC	GMT TO HR:MM:SEC	BIT RATE	R/T OR D/T	REMARKS:
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214	ATS	710	14:46:10	14:52:48	H	R/T
-----	-----	-----	----------	----------	---	-----

215	ATS	712	15:50:15	15:54:46	H	R/T	HAS 22 SEC GAP
-----	-----	-----	----------	----------	---	-----	----------------

215	MAD	713	15:51:	15:58:	H	R/T	NOT_PROCESSED
-----	-----	-----	--------	--------	---	-----	---------------

215	ATS	712	15:58:40	16:00:00	H	R/T	(CONT. ON 47A)
-----	-----	-----	----------	----------	---	-----	----------------

[illegible][illegible][illegible][illegible][illegible][illegible][illegible]

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466
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ASTP-TIME LINE (POST-MISSION)

PAGE 046

1

2

3

221-0214
 ATS =====
 BDA BDA
 DUMP BDA
 EVENT
 HBR
 LBR
 199:14:30 35 40 45 50 55 199:15:00
 074:30

1

2

224-0128
 AGO =====
 223-0197
 ORR =====
 BDA
 DUMP
 EVENT
 HBR
 LBR
 199:15:00 05 10 15 20 25 199:15:30
 075:00

1

224-0128
 AGO =====
 MAD =====
 225-0215
 ATS =====
 BDA
 DUMP
 EVENT
 HBR
 LBR
 199:15:30 35 40 45 50 55 199:16:00
 075:30

199:14:30

075:40 CTE

199:16:00

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO: 12

GMT DAY NO:199

PAGE: 47A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:

215	ATS	712	16:00:00	16:00:20	H	R/T
-----	-----	-----	----------	----------	---	-----

197	ORR	714	16:34:	16:37:	H	R/T	NOT PROCESSED
-----	-----	-----	--------	--------	---	-----	---------------

370	QUI	715	17:04:	17:11:	H	R/T	NOT_PROCESSED
-----	-----	-----	--------	--------	---	-----	---------------

121	BDA	716	17:12:	17:19:	H	R/T	NOT PROCESSED
-----	-----	-----	--------	--------	---	-----	---------------

195	MAD	718	17:28:	17:30:	H	R/T	NOT PROCESSED
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ASTP-TIME LINE (POST-MISSION)

PAGE 047

1
2
3
ATS 225-0215
=====

DUMP BDA
EVENT
HBR

LBR

+++++
199:16:00 05 10 15 20 25 199:16:30
076:00

1
2
ATS 225-0215
=====

ORR 227-0197
=====

DUMP BDA BDA
EVENT
HBR

LBR

+++++
199:16:30 35 40 45 50 55 199:17:00
076:30

MAD
230-0195
=====

ATS 229-0121D
=====

BDA 228-0370
=====

QUI BDA
=====

DUMP BDA
EVENT
HBR

LBR

+++++
199:17:00 05 10 15 20 25 199:17:30
077:00

199:16:00

077:10 CTE

199:17:30

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO:12

GMT DAY NO:199

PAGE:48A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:

			:	:			
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195	ATS	717	18:00:32	18:05:59	H	R/T	
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			:	:			
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			:	:			
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402	MIL	719	18:41:	18:50:	H	R/T	NOT PROCESSED
-----	-----	-----	--------	--------	---	-----	---------------

112	BDA	720	18:44:	18:52:	H	R/T	NOT PROCESSED
-----	-----	-----	--------	--------	---	-----	---------------

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ASTP-TIME LINE (POST-MISSION)

PAGE 048

1

2

3

230-0195

ATS =====

M(20)

DUMP =====

EVENT

HBR

LBR

199:17:30 35 40 45 50 55 199:18:00
077:30

1

2

3

230-0195

ATS =====

M(20)

DUMP =====

EVENT

HBR

LBR

199:18:00 05 10 15 20 25 199:18:30
078:00

MAD

ATS

BDA

MIL

DUMP

EVENT

HBR

LBR

199:18:30 35 40 45 50 55 199:19:00
078:30

199:17:30

078:40 CTE

199:19:00

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO:12/13

GMT DAY NO:199

PAGE:49A

 SITE TAPE NO. | SITE | DATA REQ NO. | GMT FROM HR:MN:SEC | GMT TO HR:MN:SEC | BIT RATE | R/T OR D/T | REMARKS:

196	ATS	721	19:37:28	19:39:15	H	R/T	
			:	:			
553	VAN	722	19:54:	19:58:	H	R/T	NOT PROCESSED

BLOCK NO:13

193	ATS	723	20:24:45	20:26:47	H	R/T	
-----	-----	-----	----------	----------	---	-----	--

ASTP-TIME LINE (POST-MISSION)

PAGE 049

1

2

MAD =====
237-0196

ATS =====
GDS VAN

DUMP =====
EVENT
HBR

LBR -----
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
199:19:00 05 10 15 20 25 199:19:30
079:00

1

2

VAN 239-0553D
=====

ATS 23-0196
=====
VAN VAN GDS
=====

DUMP =====
EVENT *BLOCK 13
HBR -----

LBR -----
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
199:19:30 35 40 45 50 55 199:20:00
079:30

1

ATS 243-0193
=====

ROS 240-0349
=====

MIL 241-0402
=====

GDS VAN
DUMP =====
EVENT
HBR

ΔREV 47
:
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LBR -----
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
199:20:00 05 10 15 20 25 199:20:30
080:00

199:19:00

080:10 CTE

199:20:30

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO:13

GMT DAY NO:199

PAGE: 50A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:

[illegible]

193	MAD	724	20:31:50	20:37:28	H	R/T
-----	-----	-----	----------	----------	---	-----

[illegible]

193	ATS	723	21:08:56	21:11:39	H	R/T
-----	-----	-----	----------	----------	---	-----

Category	Value
Overall Average	7.5
Mathematics	8.2
Science	7.8
History	7.1
Language Arts	7.9
Physical Education	7.3
Art	7.6
Music	7.4
Health	7.7
Social Studies	7.2
Computer Science	7.0
Foreign Languages	7.5
Environmental Studies	7.3
Business	7.1
Engineering	7.4
Psychology	7.6
Philosophy	7.2
Religion	7.0
Law	7.3
Medicine	7.5
Architecture	7.1
Design	7.4
Writing	7.2
Reading	7.6
Mathematics	7.8
Science	7.5
History	7.3
Language Arts	7.7
Physical Education	7.1
Art	7.4
Music	7.2
Health	7.6
Social Studies	7.0
Computer Science	7.3
Foreign Languages	7.1
Environmental Studies	7.5
Business	7.2
Engineering	7.4
Psychology	7.0
Philosophy	7.3
Religion	7.1
Law	7.5
Medicine	7.2
Architecture	7.4
Design	7.0
Writing	7.3
Reading	7.1

554	VAN	725	21:25:02	21:30:16	H	R/T	HAS 4 SEC GAP
-----	-----	-----	----------	----------	---	-----	---------------

171	GDS	726	21:42:55	21:48:09	H	R/T
-----	-----	-----	----------	----------	---	-----

243	ATS	727	21:56:55	22:00:00	H	R/T (CONT.ON 51A)
-----	-----	-----	----------	----------	---	-------------------

PAGE 050

199:22:00

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO: 13

GMT DAY NO:199

PAGE: 51A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:
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243	ATS	727	22:00:00	22:43:20	H	R/T
-----	-----	-----	----------	----------	---	-----

210	ORR	728	22:48:09	22:50:44	H	R/T	POOR HAS 4, 10, & 19 SEC GAPS
-----	-----	-----	----------	----------	---	-----	----------------------------------

209	H08	729	23:05:40	23:10:51	H	RAT
-----	-----	-----	----------	----------	---	-----

194	OTS	730	23-22-45	23-30-22	4	D-1T	(CONT. ON 500)
-----	-----	-----	----------	----------	---	------	----------------

101	810	100	23-26.45	23-30.00	R	R71	(CONT. ON 52H)
-----	-----	-----	----------	----------	---	-----	----------------

ASTP-TIME LINE (POST-MISSION)

PAGE 051

1

2

MAD =====

ATS 249-0243

=====

DUMP ΔM(20) DUMP

EVENT

HBR -----

LBR

+++++
199:22:00 05 10 15 20 25 199:22:30
082:00

1

2

ORR

251-0210

=====

ATS 249-0243

=====

BDA

BDA

DUMP

EVENT

HBR -----

LBR

+++++
199:22:30 35 40 45 50 55 199:23:00
082:30

1

ATS

255-0194

=====

GDS

253-0170

=====

HAW

252-0209

=====

BDA

BDA

DUMP

EVENT

HBR ----- ΔREV 49

LBR

+++++
199:23:00 05 10 15 20 25 199:23:30
083:00

199:22:00

083:10 CTE

199:23:30

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO:13/14

GMT DAY NO:199/200

PAGE:52A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:
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194	ATS	730	23:30:00	00:17:21	H	R/T	
-----	-----	-----	----------	----------	---	-----	--

: : : :

202	ORR	731	00:21:34	00:22:13	H	R/T	
-----	-----	-----	----------	----------	---	-----	--

: : : :

203	HAW	732	00:40:04	00:41:12	H	R/T	
-----	-----	-----	----------	----------	---	-----	--

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BLOCK NO:14

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199:23:30 084:40 CTE 200:01:00

BSTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO: 14

GMT DAY NO: 200

PAGE: 53A

SITE	DATA	GMT	GMT	BIT	R/T	REMARKS:
TAPE	SITE	REQ	FROM	TO	OR	
NO.	NO.		HR:MN:SEC	HR:MN:SEC	RATE	

135	BDR	659	01:00:00	01:06:38	H	R/T
-----	-----	-----	----------	----------	---	-----

259	ATS	660	01:02:19	01:54:00	H	R/T
-----	-----	-----	----------	----------	---	-----

490	ACN	661	01:16:05	01:22:38	H	R/T
-----	-----	-----	----------	----------	---	-----

222	GMM	662	02:01:	02:06:	H	R/T	NOT-PROCESSED
-----	-----	-----	--------	--------	---	-----	---------------

FILE	DATE	COL	01-01-	01-03-	N	REF	REF	NOVEMBER
			.	.				

Figure 1 is a line graph illustrating the number of cases of COVID-19 in the United States from March 2020 to March 2021. The y-axis represents the number of cases, ranging from 0 to 1,000,000. The x-axis represents time, with labels for March 2020, May 2020, July 2020, September 2020, November 2020, January 2021, March 2021, and May 2021. The graph shows a sharp increase in cases starting in March 2020, peaking in May 2020 at approximately 1,000,000 cases, followed by a decline and then a second, even higher peak in May 2021 at approximately 1,500,000 cases. The data points are connected by a solid line, and the area under the line is shaded in light blue.

Figure 1 displays 12 bar charts showing the percentage of respondents for various categories across different age groups. The categories are: 1. Age group, 2. Gender, 3. Education level, 4. Employment status, 5. Income level, 6. Marital status, 7. Health status, 8. Living arrangement, 9. Travel frequency, 10. Travel purpose, 11. Travel mode, and 12. Travel satisfaction. Each chart has a y-axis from 0 to 100% and an x-axis with age groups: 18-24, 25-34, 35-44, 45-54, 55-64, 65-74, 75-84, 85-94. The bars are color-coded by age group: 18-24 (blue), 25-34 (orange), 35-44 (green), 45-54 (red), 55-64 (purple), 65-74 (brown), 75-84 (pink), 85-94 (grey).

Table 1 The mean values of the variables measured in the study

ASTP-TIME LINE (POST-MISSION)

PAGE 053

1
 ATS 261-0259
 =====
 BDA 260-0135D
 =====
 ACN 262-0490
 =====
 DUMP
 EVENT
 HBR -----
 LBR
 +-----+
 200:01:00 05 10 15 20 25 200:01:30
 085:00

1
 2
 3
 ATS 261-0259
 =====
 DUMP
 EVENT MIL
 HBR -----
 LBR
 +-----+
 200:01:30 35 40 45 50 55 200:02:00
 085:30

1
 2
 3
 GWM 263-0222
 =====
 MIL MIL
 DUMP
 EVENT
 HBR -----
 LBR
 +-----+
 200:02:00 05 10 15 20 25 200:02:30
 086:00

200:01:00

086:10 CTE

200:02:30

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO:14

GMT DAY NO:200

PAGE:54A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:
			: :	: :			
359	MIL	663	02:31:	02:36:	H	R/T	NOT PROCESSED
122	BDA	664	02:31:58	02:37:51	H	R/T	
122	BDA	664	02:38:23	02:39:22	H	R/T	POOR
260	ATS	665	02:39:35	02:46:41	H	R/T	-
			: :	: :			
260	ATS	665	03:18:43	03:32:17	H	R/T	
			: :	: :			
225	GWM	666	03:35:	03:37:	H	R/T	NOT PROCESSED
			: :	: :			
170	GDS	667	03:58:05	04:00:00	H	R/T	(CONT. ON 55A)
			: :	: :			
			: :	: :			
			: :	: :			
			: :	: :			
			: :	: :			

PAGE 054

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DUMP                                     M(21)
EVENT      ΔREV 51                      ~~~~~
HBR        -----

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1

2

3

[illegible]

1

267-0260
=====

200:02:30

087:40 CTE

200:04:00

RSTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO: 14

GMT DAY NO:200

PAGE: 55A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:
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170	GDS	667	04:00:00	04:00:35	H	R/T
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250	ATS	668	04:00:28	04:03:35	H	D/T	>
-----	-----	-----	----------	----------	---	-----	---

403	MIL	669	04:03:16	04:08:23	H	R/T
-----	-----	-----	----------	----------	---	-----

250	ATS	668	04:08:07	04:18:24	H	D/T
-----	-----	-----	----------	----------	---	-----

369	QUI	670	04:10:33	04:14:14	H	R/T	FAIR
-----	-----	-----	----------	----------	---	-----	------

261	ATS	671	04:17:59	05:10:23	H	R/T
-----	-----	-----	----------	----------	---	-----

1000 900 800 700 600 500 400 300 200 100 0

220	GDS	672	05-29-08	05-30-08	H	B4T	(CONT ON F60)
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1116	BBB	012	05-29-09	08-30-09	H	R/T	(CONT. ON 56H)
------	-----	-----	----------	----------	---	-----	----------------

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----

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ASTP-TIME LINE (POST-MISSION)

PAGE 055

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GDS 269-0170
==
QUI 271-0369
=====
MIL 270-0403
=====
ATS 272-0261
=====
DUMP M(21) M(21)
EVENT *****
HBR -----
LBR :
    +--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
    200:04:00 05 10 15 20 25 200:04:30
    088:00
1
2
3
ATS 272-0261
=====
DUMP
EVENT
HBR -----
LBR
    +--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
    200:04:30 35 40 45 50 55 200:05:00
    088:30
1
2
GDS 273-0220D
=====
ATS 272-0261
=====
DUMP GDS
EVENT *****
HBR -----
LBR
    +--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
    200:05:00 05 10 15 20 25 200:05:30
    089:00
200:04:00 089:10 CTE 200:05:30

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ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO: 14/15

GMT DAY NO: 200

PAGE: 56A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:

220	GDS	672	05:30:00	05:34:13	H	R/T
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369	QUI	673	05:45:00	05:46:34	H	R/T	FAIR
-----	-----	-----	----------	----------	---	-----	------

250	ATS	668	05:46:08	05:49:26	H	D/T
-----	-----	-----	----------	----------	---	-----

268	AGO	674	05:49:14	05:55:12	H	R/T
-----	-----	-----	----------	----------	---	-----

263	ATS	675	05:54:08	06:43:59	H	R/T
-----	-----	-----	----------	----------	---	-----

BLOCK NO: 15

[illegible]

100 900 800 700 600 500 400 300 200 100 0

PAGE 056

200:07:00

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO:15

GMT DAY NO:200

PAGE:57A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:

			: :	: :			
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268	AGO	676	07:24:03	07:26:14	H	R/T	
-----	-----	-----	----------	----------	---	-----	--

250	ATS	668	07:25:25	07:28:18	H	D/T	
-----	-----	-----	----------	----------	---	-----	--

262	ATS	677	07:27:51	08:18:00	H	R/T	
-----	-----	-----	----------	----------	---	-----	--

250	ATS	668	08:16:55	08:18:27	H	D/T	
-----	-----	-----	----------	----------	---	-----	--

246	ATS	680	08:17:52	08:29:29	H	D/T	
-----	-----	-----	----------	----------	---	-----	--

190	HAW	678	08:29:14	08:30:00	H	R/T	(CONT. ON 58A)
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ASTP-TIME LINE (POST-MISSION)

PAGE 057

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1
2
ATS                                     279-0262
AG0                                     278-0268
M(22)                                M(22)
DUMP M(22)
EVENT
HBR                                     ΔREV 54
LBR
200:07:00 05 10 15 20 25 200:07:30
091:00

```

```

1
2
3
ATS 279-0262
DUMP
EVENT
HBR
LBR
200:07:30 35 40 45 50 55 200:08:00
091:30

```

```

1
HAW 281-0190
3
ATS 279-0262
M(22) M(23)
DUMP
EVENT
HBR
LBR
200:08:00 05 10 15 20 25 200:08:30
092:00

```

200:07:00

092:10 CTE

200:08:30

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO: 15

GMT DAY NO: 200

PAGE: 58A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:
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190	HAW	678	08:30:00	08:35:55	H	R/T
-----	-----	-----	----------	----------	---	-----

250	PTS	668	09-00-55	09-04-28	H	B/T
-----	-----	-----	----------	----------	---	-----

100	110	300	03:00:30	03:01:20	1	12/1

250	HIS	666	09:47:58	09:49:10	H	R/I	-
-----	-----	-----	----------	----------	---	-----	---

ASTP-TIME LINE (POST-MISSION)

PAGE 058

1

2

3

HAW 281-0190
=====

DUMP
EVENT
HBR -----

ΔREV 55

LBR

+++++
200:08:30 35 40 45 50 55 200:09:00
092:30

1

2

3

ATS 282-0250
=====

DUMP ΔM(21),M(22) DUMP
EVENT
HBR -----

LBR

+++++
200:09:00 05 10 15 20 25 200:09:30
093:00

1

2

3

ATS 282-0250
=====

DUMP M(23) M(23)
EVENT
HBR -----

LBR

+++++
200:09:30 35 40 45 50 55 200:10:00
093:30

200:08:30

093:40 CTE

200:10:00

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO:15

GMT DAY NO:200

PAGE:59A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:

			: :	: :			
555	VAN	679	10:12:39	10:17:40	H	R/T	
			: :	: :			
246	ATS	680	10:34:28	10:37:08	H	R/T	
			: :	: :			
491	ACN	681	10:47:20	10:50:22	H	R/T	
			: :	: :			
246	ATS	680	10:51:49	10:59:43	H	R/T	
			: :	: :			
246	ATS	680	11:21:47	11:22:19	H	R/T	
			: :	: :			
			: :	: :			
			: :	: :			
			: :	: :			
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			: :	: :			

ASTP-TIME LINE (POST-MISSION)

PAGE 059

1
2
3

VAN 283-0555
=====

M(23) M(23)
DUMP *****
EVENT *****
HBR -----

LBR -----

200:10:00 05 10 15 20 25 200:10:30
094:00

1
2

ACN 285-0491
=====

284-0246
ATS =====

M(23)
DUMP *****
EVENT ΔREV 56 ΔM(23) DUMP
HBR : -----

LBR -----

200:10:30 35 40 45 50 55 200:11:00
094:30

1
2
3

284-0246
ATS =====

VAN VAN
DUMP *****
EVENT *****
HBR -----

LBR -----

200:11:00 05 10 15 20 25 200:11:30
095:00

200:10:00

095:10 CTE

200:11:30

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO:15/16

GMT DAY NO:200

PAGE:60A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:

			:	:	:	:	
--	--	--	---	---	---	---	--

556	VAN	682	11:44:10	11:50:39	H	R/T	
-----	-----	-----	----------	----------	---	-----	--

251	ATS	225	11:51:05	12:06:52	L	D/T	
-----	-----	-----	----------	----------	---	-----	--

245	ATS	683	12:06:57	12:09:09	H	D/T	
-----	-----	-----	----------	----------	---	-----	--

251	ATS	225	12:09:33	12:14:41	L	D/T	
-----	-----	-----	----------	----------	---	-----	--

251	ATS	389	12:14:53	12:15:18	H	D/T	
-----	-----	-----	----------	----------	---	-----	--

251	ATS	225	12:15:35	12:17:28	L	D/T	
-----	-----	-----	----------	----------	---	-----	--

491	ACN	481	12:17:41	12:20:48	H	R/T	
-----	-----	-----	----------	----------	---	-----	--

251	ATS	225	12:21:14	12:32:04	L	D/T	
-----	-----	-----	----------	----------	---	-----	--

251	ATS	389	12:32:12	12:41:21	H	D/T	
-----	-----	-----	----------	----------	---	-----	--

251	ATS	225	12:41:45	12:52:37	L	D/T	
-----	-----	-----	----------	----------	---	-----	--

245	ATS	683	12:52:44	12:58:07	H	R/T	
-----	-----	-----	----------	----------	---	-----	--

BLOCK NO:16

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ASTP-TIME LINE (POST-MISSION)

PAGE 060

1

2

3

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VAN                                286-0556D
=====
DUMP  VAN                                M(24)
EVENT  M(24)
HBR
-----
LBR  -----
+++++-----
200:11:30    35    40    45    50    55    200:12:00
                                095:30
  
```

1

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ACN                                289-0491
=====
ATS    288-0245
=====
4
DUMP  M(24)                                M(24)
EVENT  M(24)                                M(24)
HBR    ΔREV 57-1st UNDOCKING
-----
LBR  -----
+++++-----
200:12:00    05    10    15    20    25    200:12:30
                                096:00
  
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1

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2
ATS    288-0245
=====
4
DUMP  M(24)                                M(25)
EVENT  M(24)                                M(25)
HBR    Δ2nd DOCKING                                *BLOCK 16
-----
LBR  -----
+++++-----
200:12:30    35    40    45    50    55    200:13:00
                                096:30
  
```

200:11:30

096:40 CTE

200:13:00

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO:16

GMT DAY NO:200

PAGE:61A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:
224	GWM	170	13:00:00	13:05:37	H	R/T	HAS 26 SEC GAP
251	ATS	225	13:05:47	13:37:46	L	D/T	
269	AGO	171	13:37:49	13:39:54	H	R/T	
			: :	: :			
251	ATS	172R	13:44:06	13:44:25	H	R/T	
			: :	: :			
251	ATS	172R	13:47:40	13:48:22	H	R/T	
251	ATS	173	13:48:38	14:04:18	L	R/T	HAS 90 SEC GAP
251	ATS	172R	14:04:48	14:08:28	H	R/T	
			: :	: :			
251	ATS	172R	14:23:52	14:30:00	H	R/T	(CONT. ON 62A)
			: :	: :			
			: :	: :			
			: :	: :			
			: :	: :			

ASTP-TIME LINE (POST-MISSION)

PAGE 061

1

2

3

290-0224

GWM =====

M(25)

XX

DUMP

EVENT

HBR -----

LBR

+++++
200:13:00 05 10 15 20 25 200:13:30
097:00

1

2

292-0251

ATS

291-0269

AGO

M(25)

DUMP

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ΔM(24) DUMP

EVENT

HBR --- - ---

LBR

+++++
200:13:30 35 40 45 50 55 200:14:00
097:30

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2

3

292-0251

ATS

DUMP

ΔM(25) DUMP

EVENT

HBR -----

LBR

+++++
200:14:00 05 10 15 20 25 200:14:30
098:00

200:13:00

098:10 CTE

200:14:30

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO:16

GMT DAY NO:200

PAGE:62A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:
251	ATS	172R	14:30:00	14:35:14	H	R/T	
240	ATS	226	14:36:	15:21:	L	D/T	NOT PROCESSED
240	ATS	175	15:20:03	15:21:04	L	R/T	
240	ATS	174	15:21:04	15:22:05	H	R/T	
240	ATS	226	15:22:	15:24:	L	D/T	NOT PROCESSED
240	ATS	174	15:24:49	15:27:18	H	D/T	
240	ATS	226	15:27:	15:35:	L	D/T	NOT PROCESSED
240	MAD	176	15:35:28	15:39:52	H	R/T	
			: :	: :			
240	ATS	174	15:44:43	16:00:00	H	R/T	(CONT. ON 63A)
			: :	: :			
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			: :	: :			
			: :	: :			
			: :	: :			

FASTP-TIME LINE (POST-MISSION)

PAGE 062

1
2
3

ATS 292-0251
=====

M(26)
DUMP
EVENT
HBR -----

LBR

+++++
200:14:30 35 40 45 50 55 200:15:00
098:30

1
2

ATS 297-0240
=====

QUI 296-0410
=====

M(26) M(26) M(26)
DUMP
EVENT
HBR
ΔREV 59 Δ 2nd UNDOCKING
:
:

LBR

+++++
200:15:00 05 10 15 20 25 200:15:30
099:00

1
2

MAD
297-0240
=====

ATS
=====

M(26)
DUMP
EVENT
HBR
ΔM(26) DUMP

LBR

+++++
200:15:30 35 40 45 50 55 200:16:00
099:30

200:14:30

099:40 CTE

200:16:00

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO:16

GMT DAY NO:200

PAGE:63A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:

240	ATS	174	16:00:00	16:13:28	H	R/T	
198	BDA	178	16:13:54	16:18:05	L	D/T	
221	ORR	177	16:18:06	16:18:42	H	R/T	
221	ORR	177	16:19:38	16:19:54	H	R/T	
198	BDA	178	16:20:01	16:55:12	L	D/T	
198	BDA	179	16:55:15	17:02:05	H	R/T	
284	ATS	180	16:57:25	17:03:43	H	R/T	
191	BDA	207	17:04:17	17:09:39	L	D/T	
284	MAD	182	17:09:42	17:11:58	H	R/T	
			: :	: :			
191	BDA	207	17:13:36	17:16:15	L	D/T	
			: :	: :			
284	ATS	181	17:18:55	17:19:00	L	R/T	POOR
284	ATS	180	17:19:06	17:30:00	H	R/T	
			: :	: :			

2

ATS

EDA

11 12 13 14 15 16 17 18

AAAAAAAAAAAAAAAA

200:16:00 05 10 15 20 25 200:16:30

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302-0284

301-01980

300-04130

REV 60

200:16:30 35 40 45 50 55 200:17:00
100:30

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E D A

302-0284

EDR

809

HER

LER

200:17:00 05 10 15 20 25 200:17:30
101:00

200:16:00

101:10 CTE

200:17:30

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO:16

GMT DAY NO:200

PAGE:64A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:

595	BUI	536	17:30:00	17:48:44	H	R/T	
-----	-----	-----	----------	----------	---	-----	--

284	ATS	181	17:48:58	17:49:42	L	R/T	
-----	-----	-----	----------	----------	---	-----	--

407	MIL	183	17:49:03	18:23:54	L	D/T	
-----	-----	-----	----------	----------	---	-----	--

407	MIL	184	18:24:02	18:31:14	H	R/T	
-----	-----	-----	----------	----------	---	-----	--

191	BDA	185	18:27:28	18:34:07	H	R/T	
-----	-----	-----	----------	----------	---	-----	--

285	ATS	186	18:32:35	18:34:55	H	R/T	
-----	-----	-----	----------	----------	---	-----	--

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285	ATS	186	18:37:56	18:41:19	H	R/T	
-----	-----	-----	----------	----------	---	-----	--

285	MAD	187	18:41:26	18:45:59	H	R/T	
-----	-----	-----	----------	----------	---	-----	--

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285	ATS	188	18:50:24	18:50:46	L	R/T	
-----	-----	-----	----------	----------	---	-----	--

285	ATS	186	18:50:46	19:00:00	H	R/T	(CONT. ON 65A)
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ASTP-TIME LINE (POST-MISSION)

PAGE 064

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2

BUI 75-0595
=====

4

DUMP
EVENT
HBR -----

MIL
=====

LBR
+++++
200:17:30 35 40 45 50 55 200:18:00
101:30

1

BDA 307-0191D
=====
ROS 306-0353D
=====
MIL 305-0407D
=====

DUMP
EVENT
HBR =====

LBR
+++++
200:18:00 05 10 15 20 25 200:18:30
102:00

MIL 305-0407D
=====

MAD =====

ATS 308-0285
=====
BDA 307-0191D
=====

DUMP
EVENT
HBR -----

LBR
+++++
200:18:30 35 40 45 50 55 200:19:00
102:30

200:17:30 102:40 CTE 200:19:00

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO:16/17

GMT DAY NO:200

PAGE:65A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:

285	ATS	186	19:00:00	19:14:47	H	R/T	
-----	-----	-----	----------	----------	---	-----	--

287	ATS	191	19:13:45	19:22:49	H	D/T	
-----	-----	-----	----------	----------	---	-----	--

557	VAN	189	19:33:26	19:38:33	H	R/T	
-----	-----	-----	----------	----------	---	-----	--

557	VAN	189	19:39:39	19:40:20	H	R/T	
-----	-----	-----	----------	----------	---	-----	--

557	VAN	190	19:40:23	19:41:21	L	R/T	
-----	-----	-----	----------	----------	---	-----	--

BLOCK NO: 17

287	ATS	193	19:40:46	20:07:19	L	D/T	
-----	-----	-----	----------	----------	---	-----	--

287	ATS	191	20:07:31	20:11:30	H	R/T	
-----	-----	-----	----------	----------	---	-----	--

287	MAD	194	20:13:20	20:19:55	H	R/T	
-----	-----	-----	----------	----------	---	-----	--

ASTP-TIME LINE (POST-MISSION)

PAGE 065

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2

3

ATS 308-0285

=====

DUMP M(27)

EVENT *****

HBR -----

LBR

200:19:00 05 10 15 20 25 200:19:30
103:00

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2

ROS

311-0350

VAN

310-0557

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DUMP
EVENT
HBR

M(27)

*BLOCK 17

LBR

200:19:30 35 40 45 50 55 200:20:00
103:30

1

MAD

ATS

313-0287

ROS 311-0350

====
M(27)

DUMP *****

EVENT ΔREV 62

ΔM(27) DUMP

HBR

LBR

200:20:00 05 10 15 20 25 200:20:30
104:00

200:19:00

104:10 CTE

200:20:30

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO:17

GMT DAY NO:200

PAGE:66A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:
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			:	:			
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287	ATS	191	20:51:05	20:55:14	H	R/T	
-----	-----	-----	----------	----------	---	-----	--

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221	ORR	195	20:58:35	20:59:48	H	R/T	
-----	-----	-----	----------	----------	---	-----	--

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557	VAN	196	21:06:45	21:10:51	H	R/T	
-----	-----	-----	----------	----------	---	-----	--

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216	GDS	197	21:25:01	21:30:13	H	R/T	
-----	-----	-----	----------	----------	---	-----	--

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288	ATS	198	21:38:43	22:00:00	H	R/T	(CONT. ON 67A)
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ASTP-TIME LINE (POST-MISSION)

PAGE 066

1

ORR

774-0221

=====

ATS 313-0287

=====

4

DUMP
EVENT
HBR

LBR

+++++
200:20:30 35 40 45 50 55 200:21:00
104:30

1

VAN

316-0557

=====

3

GDS

317-0216

=====

DUMP
EVENT
HBR

M(32)

=====

ΔEND JOINT ACTIVITIES

LBR

+++++
200:21:00 05 10 15 20 25 200:21:30
105:00

1

MAD

=====

ATS

319-0288

=====

GDS 317-0216

=====

DUMP M(32)

EVENT ΔREV 63

HBR :
:
:

LBR

+++++
200:21:30 35 40 45 50 55 200:22:00
105:30

200:22:30

105:40 CTE

200:22:00

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO:17

GMT DAY NO:200

PAGE: 67A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:
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288	ATS	198	22:00:00	22:26:17	H	R/T
-----	-----	-----	----------	----------	---	-----

311	OTR	201	22-06-15	22-08-13	U	24T
-----	-----	-----	----------	----------	---	-----

311	H18	201	22:26:18	22:30:13	H	071
-----	-----	-----	----------	----------	---	-----

217	ORR	199	22:29:47	22:33:49	H	R/T
-----	-----	-----	----------	----------	---	-----

311	ATS	201	22:33:09	22:47:33	H	D/T
-----	-----	-----	----------	----------	---	-----

253	HOW	200	22-54-53	22-53-50	E	DAT
-----	-----	-----	----------	----------	---	-----

200	THW	100	22-46-53	22-53-58	H	R71	-
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311	ATS	201	22:53:07	22:56:39	H	D/T
-----	-----	-----	----------	----------	---	-----

286	ATS	202	22:56:00	23:10:44	H	D/T
-----	-----	-----	----------	----------	---	-----

286	QIS	202	23-10-44	23-25-41	U	PAT
-----	-----	-----	----------	----------	---	-----

100	HTS	102	20-10-11	20-20-11	H	R/T

311	ATS	201	23:23:18	23:26:46	H	D/T
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286	ATS	202	23:26:29	23:29:45	H	R/T
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ASTP-TIME LINE (POST-MISSION)

PAGE 067

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2
3
   319-0288
ATS  =====
                                     M(32)
                                     ~~~~~
DUMP
EVENT
HBR  -----

LBR
+++++-----+
200:22:00    05    10    15    20    25    200:22:30
                               106:00

1
2
                                     324-0253
                                     =====
HAW
   322-0217
ORR  =====
      M(32)          M(33)          M(30)  M(28)
      ~~~~~          ~~~~~          ~~~~~
DUMP
EVENT
HBR  -----

LBR
+++++-----+
200:22:30    35    40    45    50    55    200:23:00
                               106:30

1
                                     330-0492
ACN  =====
      328-0286
ATS  =====

4
      M(28)          M(28) M(29)  M(31)
      ~~~~~          ~~~~~
DUMP
EVENT
HBR  -----
      ΔREV 64
      :
LBR
+++++-----+
200:23:00    05    10    15    20    25    200:23:30
                               107:00

200:22:00                                107:10 CTE                                200:23:30
  
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ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO: 17/18

GMT DAY NO:200/201

PAGE: 68A

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*****
SITE | DATA | GMT | GMT | BIT | R/T |
TAPE | SITE | REQ | FROM | TO | OR | REMARKS:
NO. | | NO. | HR:MN:SEC | HR:MN:SEC | RATE | D/T |
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BLOCK NO: 18

[illegible]

ASTP-TIME LINE (POST-MISSION)

PAGE 068

1

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328-0286
ATS =====

DUMP ΔM(28),M(29) DUMP
EVENT
HBR

*BLOCK 18

LBR

200:23:30 35 40 45 50 55 201:00:00
107:30

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2

3

331-0217
ORR =====

DUMP
EVENT
HBR

LBR

201:00:00 05 10 15 20 25 201:00:30
108:00

1

2

ACN

337-0492
=====

BDA

333-0199
=====

DUMP
EVENT
HBR

M(30) M(31)
NNNNNNNNNNΔNNNNNNNN

ΔREV 65

LBR

201:00:30 35 40 45 50 55 201:01:00
108:30

200:23:30

108:40 CTE

201:01:00

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO:18

GMT DAY NO:201

PAGE:69A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MM:SEC	GMT TO HR:MM:SEC	BIT RATE	R/T OR D/T	REMARKS:
			:	:			

310	ATS	561	01:20:41	01:37:00	H	R/T	
-----	-----	-----	----------	----------	---	-----	--

267	GWM	562	01:42:30	01:47:50	H	R/T	
-----	-----	-----	----------	----------	---	-----	--

404	MIL	563	02:12:	02:18:	H	R/T	NO DATA ON TAPE
-----	-----	-----	--------	--------	---	-----	-----------------

185	BDA	564	02:14:17	02:19:59	H	R/T	
-----	-----	-----	----------	----------	---	-----	--

311	ATS	201	02:21:18	02:22:13	H	R/T	
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ASTP-TIME LINE (POST-MISSION)

PAGE 069

1

2

ACN 337-0492

=====

ATS 335-0310

=====

DUMP

EVENT

HBR

LBR

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 201:01:00 05 10 15 20 25 201:01:30
 109:00

1

2

GWM

335-0310

=====

ATS

DUMP

EVENT

HBR

LBR

 +-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
 201:01:30 35 40 45 50 55 201:02:00
 109:30

ROS

BDA

MIL

ATS

DUMP

EVENT

HBR

LBR

 +-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
 201:02:00 05 10 15 20 25 201:02:30
 110:00

201:01:00

 +-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
 201:02:00 05 10 15 20 25 201:02:30
 110:00

201:01:00

110:10 CTE

201:02:30

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO:18

GMT DAY NO:201

PAGE:70A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:

			: :	: :			

311	ATS	201	02:48:22	02:54:48	H	R/T	
-----	-----	-----	----------	----------	---	-----	--

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311	ATS	201	03:14:52	03:16:50	H	R/T	
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216	GDS	565	03:38:39	03:42:17	H	R/T	FAIR
-----	-----	-----	----------	----------	---	-----	------

316	ATS	437	03:42:07	03:46:03	H	D/T	
-----	-----	-----	----------	----------	---	-----	--

404	MIL	566	03:45:37	03:50:12	H	R/T	
-----	-----	-----	----------	----------	---	-----	--

316	ATS	437	03:50:07	03:52:46	H	D/T	
-----	-----	-----	----------	----------	---	-----	--

411	QUI	567	03:52:13	03:56:37	H	R/T	
-----	-----	-----	----------	----------	---	-----	--

316	ATS	437	03:55:30	04:00:00	H	D/T	(CONT. ON 71A)
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ASTP-TIME LINE (POST-MISSION)

PAGE 070

1

2

3

ATS 342-0311
=====

DUMP
EVENT
HBR

LBR

+++++
201:02:30 35 40 45 50 55 201:03:00
110:30

1

2

3

ATS 342-0311
=====

DUMP
EVENT
HBR

LBR

+++++
201:03:00 05 10 15 20 25 201:03:30
111:00 350-0312
==

ATS

QUI

MIL

GDS

DUMP
EVENT
HBR

LBR

+++++
201:03:30 35 40 45 50 55 201:04:00
111:30

201:02:30

111:40 CTE

201:04:00

345-0216
=====

M(34)
NNNNNNNN

M(34)
NNNNNNNN

M(34)
NNNNNNNNNNNN

ΔREV 67

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ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO:18/19

GMT DAY NO:201

PAGE:71A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:

316	ATS	437	04:00:00	04:00:42	H	D/T	
-----	-----	-----	----------	----------	---	-----	--

312	ATS	568	04:00:21	04:51:16	H	R/T	
-----	-----	-----	----------	----------	---	-----	--

216	GDS	569	05:13:07	05:16:36	H	R/T	
-----	-----	-----	----------	----------	---	-----	--

BLOCK NO:19

316	ATS	437	05:16:08	05:30:00	H	D/T	(CONT.ON 72A)
-----	-----	-----	----------	----------	---	-----	---------------

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2

1.2

ATS =====
M(34) =====

DUMP 1100
1100

EVENT

LBR

201:04:00 05 10 15 20 25 201:04:30
112:00

1

23

3

ATS =====

DUMP

EVENT

HBR

LEB

201:04:30 35 40 45 50 55 201:05:00
112:30

1

2

1-6-8

GDS

MC 34)

EVENT

HER

LEB

201:05:00 05 10 15 20 25 201:05:30
113:00

201:04:00

113:10 CTE

201:05:30

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO: 19

GMT DAY NO:201

PAGE: 72A

***** PAGE: 72H *****							
SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MM:SEC	GMT TO HR:MM:SEC	BIT RATE	R/T OR D/T	REMARKS:

316	ATS	437	05:30:00	05:32:07	H	D/T
-----	-----	-----	----------	----------	---	-----

255	AGO	438	05:31:17	05:37:16	H	R/T
-----	-----	-----	----------	----------	---	-----

313	ATS	439	05:36:37	06:00:43	H	R/T
-----	-----	-----	----------	----------	---	-----

314	ATS	549	05:58:38	06:27:01	H	R/T	HAS 10,13 AND 8 SEC GAP
-----	-----	-----	----------	----------	---	-----	-------------------------

1	2	3	4
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100

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ASTP-TIME LINE (POST-MISSION)

PAGE 072

1

2

ATS 356-0313
 AGO 355-0255
 DUMP M(35)
 EVENT
 HBR

LBR

201:05:30 35 40 45 50 55 201:06:00
 113:30

1

2

3

ATS 356-0314
 DUMP
 EVENT
 HBR

LBR

201:06:00 05 10 15 20 25 201:06:30
 114:00

1

2

3

4

DUMP
 EVENT
 HBR

LBR

201:06:30 35 40 45 50 55 201:07:00
 114:30

201:05:30

114:40 CTE

201:07:00

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO:19

GMT DAY NO:201

PAGE:73A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:

			: :	: :			

255	AGO	440	07:05:40	07:08:15	H	R/T	
-----	-----	-----	----------	----------	---	-----	--

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315	ATS	441	07:09:53	07:58:41	H	R/T	
-----	-----	-----	----------	----------	---	-----	--

316	ATS	437	07:58:33	08:07:24	H	D/T	
-----	-----	-----	----------	----------	---	-----	--

565	VAN	442	08:07:01	08:09:08	H	D/T	
-----	-----	-----	----------	----------	---	-----	--

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252	HAW	443	08:10:50	08:16:55	H	R/T	
-----	-----	-----	----------	----------	---	-----	--

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ASTP-TIME LINE (POST-MISSION)

PAGE 073

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1
2
   361-0315
ATS  =====
   359-0255
AG0  =====
DUMP
EVENT      ΔREV 69
HBR  : -----
    :
LBR  : -----
+++++
201:07:00  05      10      15      20      25      201:07:30
                                     115:00

```

```

1
2
   361-0315
ATS  =====
4
DUMP
EVENT
HBR  -----
                                     M(36)
                                     ***
LBR  -----
+++++
201:07:30  35      40      45      50      55      201:08:00
                                     115:30

```

```

1
2
3
   364-0252
HAW  =====
M(36)      VAN
DUMP  ****Δ****
EVENT
HBR  -----
LBR  -----
+++++
201:08:00  05      10      15      20      25      201:08:30
                                     116:00

```

201:07:00

116:10 CTE

201:08:30

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO:19

GMT DAY NO:201

PAGE:74A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:

316	ATS	437	08:45:05	08:52:34	H	R/T	
-----	-----	-----	----------	----------	---	-----	--

316	ATS	437	09:30:16	09:31:43	H	R/T	
-----	-----	-----	----------	----------	---	-----	--

565	VAN	444	09:54:30	09:59:15	H	R/T	
-----	-----	-----	----------	----------	---	-----	--

PAGE 074

3

DUMP AM(34),(35),(36)

201:08:30 35 40 45 50 55 201:09:00
116:30

2

5

ATS =====

LEB

201:09:00 05 10 15 20 25 201:09:30
117:00

1

2

ATS

地址：上海南京路100号
 电话：021-23111111

[illegible]

LEF

201:09:30 35 40 45 50 55 201:10:00
117:30

201:10:00

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO: 19

GMT DAY NO: 201

PAGE: 75A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:

317	ATS	445	10:21:56	10:24:50	H	R/T
-----	-----	-----	----------	----------	---	-----

317	ATS	445	10:27:13	10:28:01	H	R/T
-----	-----	-----	----------	----------	---	-----

493	ACN	446	10:27:54	10:32:42	H	R/T	-
-----	-----	-----	----------	----------	---	-----	---

317	ATS	445	10:32:40	10:50:44	H	R/T
-----	-----	-----	----------	----------	---	-----

Figure 1 is a line graph showing the number of cases of COVID-19 in the United States from March 2020 to March 2021. The y-axis represents the number of cases, ranging from 0 to 1,000,000. The x-axis represents time, with labels for March 2020, May 2020, July 2020, September 2020, November 2020, January 2021, March 2021, and April 2021. The graph shows a sharp increase in cases starting in March 2020, peaking in May 2020 at approximately 1,000,000 cases, followed by a decline and then a second, even higher peak in March 2021 at approximately 1,500,000 cases. The data is represented by a solid black line with circular markers at each data point.

566	VAN	447	11:25:41	11:30:00	H	R/T	(CONT. ON 76A)
-----	-----	-----	----------	----------	---	-----	----------------

Circumstance	Percentage of Respondents (%)
If someone is attacking you	85
If someone is threatening you	75
If someone is harassing you	65
If someone is insulting you	55
If someone is annoying you	15
If someone is bothering you	25
If someone is disturbing you	35
If someone is annoying you	15

ASTP-TIME LINE (POST-MISSION)

PAGE 075

1

2

ACN

370-0493D

ATS

369-0317

DUMP
EVENT
HBR

ΔREV 71

LBR

201:10:00 05 10 15 20 25 201:10:30

1

2

ACN 370-0493D

ATS 369-317

DUMP

M(37)

EVENT

HBR

LBR

201:10:30 35 40 45 50 55 201:11:00

1

2

VAN

372-0566

4

DUMP M(37)

EVENT

HBR

LBR

201:11:00 05 10 15 20 25 201:11:30

201:10:00

119:10 CTE

201:11:30

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO: 19/20

GMT DAY NO:201

PAGE: 76A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:
566	VAN	447	11:30:00	11:32:10	H	R/T	

BLOCK NO: 20

			:	:	:	:			
318	ATS	552	11:45:43	11:51:05	H	D/T			
			:	:	:	:			
494	ACN	551	12:01:11	12:04:44	H	R/T			
318	ATS	552	12:01:35	12:16:09	H	R/T			
			:	:	:	:			
318	ATS	552	12:29:44	12:36:26	H	R/T			
319	ATS	555	12:36:35	13:00:00	H	D/T	(CONT. ON 77A)		
			:	:	:	:			
			:	:	:	:			
			:	:	:	:			
			:	:	:	:			
			:	:	:	:			

ASTP-TIME LINE (POST-MISSION)

PAGE 076

1

ACN

374-0494
===

3

VAN 372-0566

=====

M(37)

DUMP

EVENT

HBR

*BLOCK 20

ΔREV 72

:
:

LBR

+++++
201:11:30 35 40 45 50 55 201:12:00
119:30

1

2

ATS 373-0318

=====

ACN 374-0494

=====

DUMP

EVENT

HBR

Δ M(37) DUMP

LBR

+++++
201:12:00 05 10 15 20 25 201:12:30
120:00

1

2

GWM

375-0280

=====

ATS 373-0318

=====

M(38)

M(39)

DUMP

EVENT

HBR

:-----

LBR

+++++
201:12:30 35 40 45 50 55 201:13:00
120:30

201:11:30

120:40 CTE

201:13:00

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO:20

GMT DAY NO:201

PAGE:77A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:
319	ATS	555	13:00:00	13:13:17	H	D/T	
			:	:			
256	AGO	554	13:19:58	13:23:42	H	R/T	
319	ATS	555	13:23:44	13:24:57	H	R/T	
319	ATS	555	13:26:37	13:27:16	H	R/T	
			:	:			
319	MAD	556	13:42:40	13:49:38	H	R/T	
			:	:			
319	ATS	555	14:03:14	14:05:35	H	R/T	
			:	:			
319	ATS	555	14:06:55	14:10:47	H	R/T	
319	ATS	555	14:11:28	14:15:47	H	R/T	
320	ATS	516	14:15:10	14:30:00	H	D/T	(CONT. ON 78A)
			:	:			
			:	:			

ASTP-TIME LINE (POST-MISSION)

PAGE 077

1

2

ATS

AGO

DUMP

EVENT

HBR

LBR

201:13:00 05 10 15 20 25 201:13:30
121:00

1

2

MAD

ATS

DUMP

EVENT

HBR

LBR

201:13:30 35 40 45 50 55 201:14:00
121:30

1

2

ORR

ATS

DUMP

EVENT

HBR

LBR

201:14:00 05 10 15 20 25 201:14:30
122:00

201:13:00

122:10 CTE

201:14:30

378-0319

377-0256

M(39)

M(40)

AREV 73

M(38),(39),(40) DUMP

M(41)

M(42)

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO:20/21

GMT DAY NO:201

PAGE:78A

 SITE | SITE | DATA | GMT | GMT | BIT | R/T |
 TAPE | SITE | REQ | FROM | TO | RATE | OR | REMARKS:
 NO. | NO. | HR:MN:SEC | HR:MN:SEC | D/T |

320	ATS	516	14:30:00	14:39:37	H	D/T
-----	-----	-----	----------	----------	---	-----

320	ATS	516	15:05:21	15:10:07	H	R/T
-----	-----	-----	----------	----------	---	-----

BLOCK NO:21

320	MAD	60	15:16:08	15:21:29	H	R/T
-----	-----	----	----------	----------	---	-----

320	ATS	516	15:35:54	15:50:54	H	R/T
-----	-----	-----	----------	----------	---	-----

321	ATS	522R	15:50:58	15:56:52	H	D/T
-----	-----	------	----------	----------	---	-----

374	ORR	517	15:58:49	16:00:00	H	R/T	VERY POOR (CONT. ON 79A)
-----	-----	-----	----------	----------	---	-----	-----------------------------

ASTP-TIME LINE (POST-MISSION)

PAGE 078

1
2
3

QUI 382-0412
=====

DUMP M(42)
EVENT
HBR -----

LBR -----

201:14:30 35 40 45 50 55 201:15:00
122:30

1
2

MAD
384-0320
=====

ATS M(42)
=====

DUMP
EVENT
HBR -----

LBR -----

201:15:00 05 10 15 20 25 201:15:30
123:00

1
2

ORR 386-0374
=====

ATS 384-0320
=====

DUMP M(43)
EVENT
HBR -----

LBR -----

201:15:30 35 40 45 50 55 201:16:00
123:30

201:14:30

123:40 CTE

201:16:00

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO:21

GMT DAY NO:201

PAGE:79A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:
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374	ORR	517	16:00:00	16:02:41	H	R/T	VERY POOR
321	ATS	522R	16:01:06	16:05:14	H	D/T	
			: :	: :			
321	ATS	522R	16:10:32	16:12:12	H	D/T	
408	MIL	524	16:12:13	16:14:57	H	D/T	
270	BDA	526	16:12:50	16:14:56	H	D/T	
			: :	: :			
270	BDA	526	16:27:57	16:31:03	H	D/T	
322	ATS	527	16:30:01	16:32:41	H	D/T	
412	QUI	518	16:32:30	16:33:51	H	R/T	FAIR
			: :	: :			
405	MIL	519	16:34:51	16:39:02	H	R/T	
254	BDA	520	16:36:14	16:43:26	H	R/T	
322	ATS	527	16:42:33	16:47:39	H	D/T	
			: :	: :			
321	MAD	521	16:51:27	16:53:42	H	R/T	
			: :	: :			
322	ATS	527	16:59:25	17:04:09	H	D/T	
			: :	: :			
322	ATS	527	17:09:31	17:13:36	H	D/T	
			: :	: :			
321	ATS	522R	17:14:56	17:18:13	H	R/T	

LASTP-TIME LINE (POST-MISSION)

PAGE 079

1

2

ORR 386-0374
=====

389-0412

QUI

M(43)

M(43) MIL/BDA

===

BDA

DUMP

EVENT

HBR

LBR

201:16:00 05 10 15 20 25 201:16:30
390-0405 124:00

MIL

=====

392-0254

BDA

=====

396-0321

MAD

=====

QUI 389-0412

=====

BDA M(44)

M(44)

M(44)

DUMP

EVENT AREV 75

HBR

LBR

201:16:30 35 40 45 50 55 201:17:00
124:30

1

2

3

ATS

393-0321

M(44)

M(44) M(45)

Δ M(43) DUMP

DUMP

EVENT

HBR

LBR

201:17:00 05 10 15 20 25 201:17:30
125:00

201:16:00

125:10 CTE

201:17:30

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO:21

GMT DAY NO:201

PAGE:80A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:

			: :	: :			
--	--	--	-----	-----	--	--	--

408	MIL	523	18:05:46	18:12:35	H	R/T	
-----	-----	-----	----------	----------	---	-----	--

270	BDA	525	18:09:18	18:13:55	H	R/T	
-----	-----	-----	----------	----------	---	-----	--

270	BDA	525	18:13:55	18:15:35	H	R/T	VERY POOR
-----	-----	-----	----------	----------	---	-----	-----------

			: :	: :			
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322	MAD	528	18:23:13	18:27:49	H	R/T	
-----	-----	-----	----------	----------	---	-----	--

			: :	: :			
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322	ATS	527	18:31:35	19:00:00	H	R/T	(CONT. ON 81A)
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1
2
3
4

DUMP
EVENT
HBR

LBR

201:17:30 35 40 45 50 55 201:18:00
400-0408D 125:30

MIL

BDA

MAD

ATS

DUMP
EVENT
HBR

LBR

201:18:00 05 10 15 20 25 201:18:30
126:00

1
2
3

ATS

DUMP
EVENT
HBR

LBR

201:18:30 35 40 45 50 55 201:19:00
126:30

201:17:30

126:40 CTE

201:19:00

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO:21

GMT DAY NO:201

PAGE:81A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:
322	ATS	527	19:00:00	19:03:51	H	R/T	
324	ATS	421	19:03:16	19:09:37	H	D/T	
			: :	: :			
566	VAN	529	19:14:37	19:21:32	H	R/T	
			: :	: :			
324	ATS	421	19:26:24	19:27:57	H	D/T	
			: :	: :			
324	ATS	421	19:32:00	19:36:01	H	D/T	
279	GDS	530	19:36:04	19:38:23	H	R/T	
			: :	: :			
229	ROS	531	19:41:11	19:42:38	H	R/T	
324	ATS	421	19:42:36	19:47:22	H	D/T	
			: :	: :			
324	ATS	421	19:52:36	19:56:48	H	D/T	
323	MAD	532	19:55:18	20:01:16	H	R/T	
			: :	: :			
324	ATS	421	20:03:32	20:07:44	H	D/T	
			: :	: :			
324	ATS	421	20:12:04	20:16:09	H	D/T	
			: :	: :			
324	ATS	421	20:22:07	20:26:47	H	D/T	

ASTP-TIME LINE (POST-MISSION)

PAGE 081

1

2

VAN

407-0566

ATS 404-0322

=====

M(46)

M(46)

DUMP
EVENT

HBR

LBR

201:19:00 05 10 15 20 25 201:19:30
127:00

1

MAD

416-0323

ROS

411-0229

GDS

410-0279

DUMP
EVENT

HBR

LBR

201:19:30 35 40 45 50 55 201:20:00
127:30

1

2

3

MAD

416-0323

DUMP
EVENT

HBR

LBR

201:20:00 05 10 15 20 25 201:20:30
128:00

201:19:00

128:10 CTE

201:20:30

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO:21/22

GMT DAY NO:201

PAGE:82A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:

			: :	: :			
--	--	--	-----	-----	--	--	--

324	ATS	421	20:32:34	20:36:53	H	D/T	
-----	-----	-----	----------	----------	---	-----	--

			: :	: :			
--	--	--	-----	-----	--	--	--

374	ORR	533	20:40:12	20:41:23	H	R/T	
-----	-----	-----	----------	----------	---	-----	--

324	ATS	421	20:42:07	20:46:47	H	D/T	
-----	-----	-----	----------	----------	---	-----	--

			: :	: :			
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567	VAN	534	20:48:08	20:52:56	H	R/T	
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324	ATS	421	21:01:43	21:03:38	H	D/T	
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279	GDS	535	21:06:14	21:12:27	H	R/T	4 SMALL GAPS
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BLOCK NO:22

324	ATS	421	21:23:09	21:24:31	H	R/T	
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324	MAD	423	21:28:45	21:32:03	H	R/T	HAS 18 & 9 SEC GAP
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1
  ORR              773-0374
                  ====
  VAN              423-0567
                  =====
4
  DUMP             M(48)              M(48)
  EVENT            M(48)              M(48)
  HBR              -----
LBR
  +-----+-----+-----+-----+-----+-----+-----+
  201:20:30  35      40      45      50      55      201:21:00
                  128:30
1
  ATS              430-0324
                  =====
  MAD              =====
  GDS              425-0279
                  =====
  DUMP             M(49)              Δ M(46) DUMP
  EVENT            M(49)              Δ M(46) DUMP
  HBR              -----
LBR
  +-----+-----+-----+-----+-----+-----+-----+
  201:21:00  05      10      15      20      25      201:21:30
                  129:00
1
  MAD             =====
3
  ATS             430-0324
                  =====
  DUMP Δ M(47),(48),(49) DUMP
  EVENT
  HBR            ---
LBR
  +-----+-----+-----+-----+-----+-----+-----+
  201:21:30  35      40      45      50      55      201:22:00
                  129:30
201:20:30              129:40 CTE              201:22:00

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ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO:22

GMT DAY NO:201

PAGE:83A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:

372	ORR	424	22:13:22	22:15:33	H	D/T	
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308	HAW	425	22:28:45	22:35:39	H	R/T	
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363	ATS	429	22:58:41	23:05:41	H	D/T	
-----	-----	-----	----------	----------	---	-----	--

363	ATS	429	23:08:56	23:13:59	H	D/T	
-----	-----	-----	----------	----------	---	-----	--

495	ACN	426	23:09:24	23:12:49	H	R/T	
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379	GWM	432	23:13:59	23:15:48	H	D/T	
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379	GWM	432	23:27:46	23:30:00	H	D/T	(CONT. ON 84A)
-----	-----	-----	----------	----------	---	-----	----------------

1
 HAW 428-0308D
 ORR 427-0372D
 ATS 430-0324
 =====

DUMP
 EVENT
 HBR -----
 LBR
 +-----+
 201:22:00 05 10 15 20 25 201:22:30
 130:00

1
 2
 3
 HAW 428-0308D
 =====
 DUMP
 EVENT
 HBR -----
 LBR
 +-----+
 201:22:30 35 40 45 50 55 201:23:00
 130:30

1
 2
 3
 ACN 432-0495
 =====
 4
 M(50) M(50) M(51) GWM
 DUMP M(50) M(50) M(51) GWM
 EVENT M(50) M(50) M(51) GWM
 HBR -----
 LBR
 +-----+
 201:23:00 05 10 15 20 25 201:23:30
 131:00

201:22:00 131:10 CTE 201:23:30

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO: 22

GMT DAY NO:201/202

PAGE: 34A

[illegible]

1

2

3

4

GWM MIL
 DUMP ***Δ*****
 EVENT
 HBR -----

LBR

+++++
 201:23:30 35 40 45 50 55 202:00:00
 131:30

1

ATS

439-0363

=====

3

BDA

437-0264

=====

DUMP
 EVENT
 HBR

MIL

ΔREV 80

:

:

LBR

+++++
 202:00:00 05 10 15 20 25 202:00:30
 132:00

1

BDA 437-0363
 ===

440-0496

=====

ACN

439-0264

=====

ATS

MIL M(52)

DUMP *****Δ*****

EVENT

HBR -----

LBR

+++++
 202:00:30 35 40 45 50 55 202:01:00
 132:30

201:23:30

132:40 CTE

202:01:00

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO: 22/23

GMT DAY NO:202

PAGE: 85A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MM:SEC	GMT TO HR:MM:SEC	BIT RATE	R/T OR D/T	REMARKS:

363	ATS	429	01:00:00	01:06:41	H	R/T
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379	GWM	431	01:24:26	01:30:18	H	R/T
-----	-----	-----	----------	----------	---	-----

2 2

409	MIL	433	01:53:56	01:57:47	H	R/T
-----	-----	-----	----------	----------	---	-----

271	BDA	435	01:56:02	02:01:48	H	R/T
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360	ATS	436	02:04:00	02:14:33	H	R/T
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2

12

BLOCK NO: 23

16 17

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1

2

GWM

441-0379D

439-0363

ATS

DUMP
EVENT
HBR

Δ M(50),(51) DUMP

LBR

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+++++
202:01:00 05 10 15 20 25 202:01:30
441-0379D 133:00

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GWM

BDA

445-0271D

MIL

444-0409D

ROS

443-0230D

DUMP
EVENT
HBR

ΔREV 81

LBR

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+++++
202:01:30 35 40 45 50 55 202:02:00
133:30

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1

BDA 445-0271D

3

ATS 446-0360

DUMP
EVENT
HBR

*BLOCK 23

LBR

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+++++
202:02:00 05 10 15 20 25 202:02:30
134:00

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202:01:00

134:10 CTE

202:02:30

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO:23

GMT DAY NO:202

PAGE:86A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:
360	ATS	436	02:30:53	02:57:51	H	R/T	
			: :	: :			
394	ATS	463	03:04:58	03:05:26	H	D/T	
			: :	: :			
387	ATS	307	03:07:25	03:12:53	H	D/T	
			: :	: :			
387	ATS	307	03:16:42	03:16:58	H	D/T	
			: :	: :			
279	GDS	114	03:19:33	03:24:31	H	R/T	HAS 30 & 21 SEC GAP
			: :	: :			
462	QUI	455	03:33:49	03:38:29	H	R/T	
394	ATS	463	03:36:46	03:42:52	H	D/T	
361	ATS	636	03:42:14	03:52:16	H	R/T	
361	ATS	456	03:47:03	04:00:00	H	R/T	(CONT. ON 87A)
			: :	: :			

ASTP-TIME LINE (POST-MISSION)

PAGE 086

1

2

3

ATS 446-0360

=====

DUMP

EVENT

HBR -----

LBR

202:02:30 35 40 45 50 55 202:03:00
134:30

1

2

MIL

450-0406

GDS

448-0279

=====NO DATA
ON TAPE

DUMP

EVENT

HBR

M(54) M(59)

LBR

202:03:00 05 10 15 20 25 202:03:30
135:00

1

2

ATS

453-0361

QUI

452-0462

DUMP

EVENT

HBR

ΔREV 82

M(54)

LBR

202:03:30 35 40 45 50 55 202:04:00
135:30

202:02:30

135:40 CTE

202:04:00

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO:23

GMT DAY NO:202

PAGE:87A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:
361	ATS	456	04:00:00	04:32:27	H	R/T	
361	ATS	459	04:32:30	04:32:59	L	R/T	
394	ATS	458	04:32:47	04:55:27	L	D/T	
279	GDS	457	04:55:35	04:57:38	H	R/T	
394	ATS	463	04:57:27	05:12:58	H	D/T	
295	AG0	460	05:12:43	05:18:44	H	R/T	
398	ATS	461	05:18:00	05:30:00	H	R/T	(CONT. ON 88A)
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			: :	: :			
			: :	: :			
			: :	: :			
			: :	: :			
			: :	: :			
			: :	: :			

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1
2
3
  453-0361
ATS =====
DUMP
EVENT
HBR -----
LBR
+++++
202:04:00 05 10 15 20 25 202:04:30
136:00
1
2
  455-0279
GDS =====
  453-0361
ATS =====
  M(54) M(54)
DUMP
EVENT
HBR -----
LBR
+++++
202:04:30 35 40 45 50 55 202:05:00
136:30
1
  458-0398
ATS =====
  457-0295
AG0 =====
4
  M(54) M(55)
DUMP
EVENT
HBR -----
LBR
+++++
202:05:00 05 10 15 20 25 202:05:30
137:00
202:04:00 137:10 CTE 202:05:30

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ASTP-TIME LINE (POST-MISSION)

PAGE 008

1

2

3

ATS 458-0398
=====

DUMP
EVENT
HBR -----

LBR
+++++
202:05:30 35 40 45 50 55 202:06:00
137:30

1

2

3

ATS 458-0398
=====

DUMP
EVENT
HBR -----

LBR
+++++
202:06:00 05 10 15 20 25 202:06:30
138:00

1

2

ATS 462-0394
=====

AG0 461-0295
=====

DUMP M(55)
EVENT
HBR -----

ΔREV 84
:
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LBR
+++++
202:06:30 35 40 45 50 55 202:07:00
138:30

202:05:30

138:40 CTE

202:07:00

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO:23/24

GMT DAY NO:202

PAGE:89A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:
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394	ATS	463	07:00:00	07:01:27	H	R/T	
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394	ATS	463	07:27:05	07:39:58	H	R/T	
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BLOCK NO:24

401	ATS	464	07:40:27	07:52:28	L	D/T	
-----	-----	-----	----------	----------	---	-----	--

304	HAW	465	07:52:36	07:56:05	H	R/T	
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304	HAW	465	07:57:54	07:59:20	H	R/T	
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401	ATS	464	07:59:24	08:26:03	L	D/T	
-----	-----	-----	----------	----------	---	-----	--

401	ATS	466R	08:26:08	08:27:33	H	R/T	
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1

2

33

462-0394

462-0394
ATS =====

DUMP Δ M(54),M(55) DUMP

EVENT

1987

LEP

202:07:00 05 10 15 20 25 202:07:30
139:00

1

2

FOI

464-0304

462-0394

HTS

DUMP

MC (56)

MC 560

EVENT

*BLOCK 24

HER

LEER

202:07:30 35 40 45 50 55 202:08:00
139:30

1

2

End

HTS

465-0400

MC 560

DUMP

EVENT

HER

ΔREV 85

LEB

202:08:00 05 10 15 20 25 202:08:30
140:00

202:07:00

140:10 CTE

202:08:30

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO: 24

GMT DAY NO:202

: PAGE: 90A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:
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[illegible]

400	ATS	466R	08:59:05	09:12:22	H	R/T
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400	ATS	467	09:12:27	09:12:52	L	R/T
-----	-----	-----	----------	----------	---	-----

401	ATS	464	09:12:51	09:36:03	L	D/T
-----	-----	-----	----------	----------	---	-----

568	VAN	468	09:36:08	09:38:33	H	R/T
-----	-----	-----	----------	----------	---	-----

401	ATS	464	09:38:51	10:00:00	L	D/T	(CONT. ON 91A)
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[illegible][illegible]

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466
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[illegible][illegible][illegible]

ASTP-TIME LINE (POST-MISSION)

PAGE 090

1

2

3

ATS 465-0400

=====

DUMP
EVENT
HBR

LBR

202:08:30 35 40 45 50 55 202:09:00
140:30

1

2

3

ATS 465-0400

=====

DUMP
EVENT
HBR

M(56)

=====

LBR

202:09:00 05 10 15 20 25 202:09:30
141:00

1

2

3

VAN 467-0568

=====

M(56)

=====

DUMP
EVENT
HBR

M(56)

=====

ΔREV 86

LBR

202:09:30 35 40 45 50 55 202:10:00
141:30

202:08:30

141:40 CTE

202:10:00

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO:24

GMT DAY NO:202

PAGE:91A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:
401	ATS	464	10:00:00	10:10:26	L	D/T	
497	ACN	469	10:09:30	10:10:31	L	R/T	
497	ACN	470	10:10:31	10:13:43	H	R/T	
401	ATS	464	10:13:57	10:53:05	L	D/T	
368	GWM	471	10:52:51	10:53:08	L	R/T	
368	GWM	472	10:53:08	10:53:24	H	R/T	
401	ATS	464	10:53:28	11:05:48	L	D/T	
568	VAN	473	11:05:42	11:05:55	L	R/T	
568	VAN	474	11:05:55	11:12:58	H	R/T	
401	ATS	464	11:13:15	11:30:00	L	D/T	(CONT. ON 92A)
			:	:			
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			:	:			
			:	:			
			:	:			
			:	:			

1

2

ACN

469-0497

=====

4

DUMP M(56)

EVENT

HBR

M(56)

=====

LBR

202:10:00

05

10

15

20

25

202:10:30

142:00

1

2

GWM

771-0368

=====

4

DUMP M(56)

EVENT

HBR

M(56)

=====

LBR

202:10:30

35

40

45

50

55

202:11:00

142:30

1

2

AGD

754-0296

===

VAN

470-0568

=====

DUMP M(56)

EVENT

HBR

M(56)

=====

ΔREV 87

:

:

LBR

202:11:00

05

10

15

20

25

202:11:30

143:00

202:10:00

143:10 CTE

202:11:30

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO:24/25

GMT DAY NO:202

PAGE:92A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:

401	ATS	464	11:30:00	11:32:10	L	D/T	
-----	-----	-----	----------	----------	---	-----	--

401	ATS	475	11:32:25	11:53:12	H	R/T	
-----	-----	-----	----------	----------	---	-----	--

			:	:			
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401	ATS	475	12:00:52	12:21:58	H	R/T	
-----	-----	-----	----------	----------	---	-----	--

			:	:			
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367	GWM	477	12:23:41	12:28:36	H	R/T	
-----	-----	-----	----------	----------	---	-----	--

367	GWM	478	12:28:38	12:29:42	L	R/T	
-----	-----	-----	----------	----------	---	-----	--

386	ATS	302	12:29:06	12:44:00	L	D/T	
-----	-----	-----	----------	----------	---	-----	--

BLOCK NO:25

386	ATS	302	12:44:00	13:00:00	L	D/T	
-----	-----	-----	----------	----------	---	-----	--

296	AGO	300	12:59:41	13:00:00	L	R/T	(CONT. ON 93A)
-----	-----	-----	----------	----------	---	-----	----------------

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--	--	--	---	---	--	--	--

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--	--	--	---	---	--	--	--

			:	:			
--	--	--	---	---	--	--	--

ASTP-TIME LINE (POST-MISSION)

PAGE 092

```

1
2
ACN                      472-0497
                        =====
ATS      471-0401
=====
DUMP      M(56)
EVENT     *****
HBR      -----
LBR      -----
+-----+
202:11:30 35      40      45      50      55      202:12:00
143:30

```

```

1
2
GWM                      473-0367
                        =====
ATS      471-0401
=====
DUMP
EVENT
HBR      -----
LBR      -----
+-----+
202:12:00 05      10      15      20      25      202:12:30
144:00

```

```

1
2
VAN                      775-0568
                        =====
AG0                      475-0269
                        =====
DUMP      M(57)
EVENT     *****
HBR      *BLOCK 25
LBR      -----
+-----+
202:12:30 35      40      45      50      55      202:13:00
144:30

```

202:11:30

144:40 CTE

202:13:00

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO:25

GMT DAY NO:202

PAGE:93A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:

296	AGO	300	13:00:00	13:00:18	L	R/T	
296	AGO	299	13:00:18	13:04:31	H	R/T	
296	AGO	300	13:04:35	13:05:23	L	R/T	
386	ATS	302	13:04:48	13:05:50	L	D/T	
386	ATS	301	13:05:54	13:38:48	H	R/T	
386	ATS	304	13:39:06	13:39:36	L	R/T	
387	ATS	308	13:39:33	13:47:28	L	D/T	
			: :	: :			
458	QRR	305	14:09:32	14:10:20	H	R/T	
			: :	: :			
387	ATS	307	14:21:05	14:25:55	H	D/T	
			: :	: :			
			: :	: :			
			: :	: :			
			: :	: :			
			: :	: :			

1

```

MAD                                     =====
ATS      476-0386                      =====
AGD      475-0296                      =====
          M(57)
DUMP      M(57) DUMP
EVENT
HBR      -----

LBR      --      -----
          +-----+
          202:13:00      05      10      15      20      25      202:13:30
                                145:00
    
```

1

```

MAD      ====
3
ATS      476-0386                      =====
          M(58)
DUMP      M(58)
EVENT
HBR      -----

LBR      -----
          +-----+
          202:13:30      35      40      45      50      55      202:14:00
                                145:30
    
```

1

2

3

```

ORR      479-0458                      =====
          M(58)
DUMP      M(58)
EVENT
HBR      -----

LBR      -----
          +-----+
          202:14:00      05      10      15      20      25      202:14:30
                                146:00
    
```

202:13:00

146:10 CTE

202:14:30

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO: 25

GMT DAY NO: 202

PAGE: 94A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MM:SEC	GMT TO HR:MM:SEC	BIT RATE	R/T OR D/T	REMARKS:

```

NO.      |      | NO.      | TH:TN:SEC| TH:TN:SEC| RATE| B7T |
*****

```

463	QUI	400	14:38:59	14:40:37	L	R/T
-----	-----	-----	----------	----------	---	-----

387	ATS	307	14:48:38	14:49:59	H	R/T
-----	-----	-----	----------	----------	---	-----

Age Group	No opinion	Not a good idea	A good idea	A very good idea	Don't know
18-24	15%	10%	25%	35%	15%
25-34	10%	5%	30%	45%	10%
35-44	5%	5%	35%	50%	5%
45-54	5%	5%	35%	50%	5%
55-64	5%	5%	35%	50%	5%
65+	5%	5%	35%	50%	5%

387	MAD	310	14:57:28	14:57:53	H	R/T
-----	-----	-----	----------	----------	---	-----

387	MAD	401	14:57:55	14:58:34	L	R/T
-----	-----	-----	----------	----------	---	-----

387	MAD	310	14:58:35	15:02:44	H	R/T

387	ATS	309	15:08:14	15:08:30	L	R/T
387	ATS	309	15:09:30	15:33:19	H	R/T

387	HIS	387	15:08:30	15:37:19	H	R/I
389	BOB	389	15:37:38	15:45:24	H	D/I

388	ATS	317	15:41:19	15:55:26	H	D/T
-----	-----	-----	----------	----------	---	-----

ASTP-TIME LINE (POST-MISSION)

PAGE 094

1

MAD

ATS

QUI

DUMP

EVENT

HBR

LBR

202:14:30

35

40

45

50

55

202:15:00

1

MAD

3

ATS

DUMP

EVENT

HBR

LBR

202:15:00

05

10

15

20

25

202:15:30

1

2

3

ATS

DUMP

EVENT

HBR

LBR

202:15:30

35

40

45

50

55

202:16:00

202:14:30

147:40 CTE

202:16:00

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO:25

GMT DAY NO:202

PAGE:95A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:

390	ATS	260	16:06:25	16:06:36	H	D/T	
			:	:			
464	QUI	312	16:10:15	16:13:35	H	R/T	HAS 32 SEC GAP
			:	:			
290	MIL	313	16:15:33	16:15:56	L	R/T	
290	MIL	314	16:15:58	16:20:43	H	R/T	
301	BDA	315	16:17:04	16:25:07	H	R/T	
			:	:			
388	MAD	318	16:32:41	16:35:06	H	R/T	
388	ATS	317	16:35:03	17:11:37	H	R/T	
390	ATS	260	17:11:02	17:22:20	H	D/T	
390	ATS	322	17:22:36	17:30:00	L	D/T	(CONT. ON 96A)
			:	:			
			:	:			

ASTP-TIME LINE (POST-MISSION)

PAGE 095

QUI

485-0464D

=====

487-0301D

BDA /

=====

486-0290D

MIL

=====

488-0388

ATS

=====

M(61)

DUMP

Δ M(60) DUMP

EVENT

ΔREV 90

HBR

LBR

 202:16:00 05 10 15 20 25 202:16:30
 148:00

1

2

MAD

488-0388

ATS

DUMP

EVENT

HBR

LBR

 202:16:30 35 40 45 50 55 202:17:00
 148:30

1

2

3

488-0388

ATS

M(61)

DUMP

EVENT

HBR

LBR

 202:17:00 05 10 15 20 25 202:17:30
 149:00

202:16:00

149:10 CTE

202:17:30

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO:25/26

GMT DAY NO:202

PAGE:96A

 SITE TAPE NO. | SITE | DATA REQ NO. | GMT FROM HR:MN:SEC | GMT TO HR:MN:SEC | BIT RATE | R/T OR D/T | REMARKS:

390	ATS	322	17:30:00	17:47:02	L	D/T	
-----	-----	-----	----------	----------	---	-----	--

289	MIL	319	17:46:29	17:47:03	L	R/T	
-----	-----	-----	----------	----------	---	-----	--

289	MIL	320	17:47:05	17:54:05	H	R/T	
-----	-----	-----	----------	----------	---	-----	--

297	BDA	321	17:50:30	17:56:43	H	R/T	
-----	-----	-----	----------	----------	---	-----	--

BLOCK NO:26

389	ATS	257	17:55:09	18:36:42	H	R/T	
-----	-----	-----	----------	----------	---	-----	--

390	ATS	322	18:37:11	18:54:24	L	D/T	
-----	-----	-----	----------	----------	---	-----	--

569	VAN	258	18:54:27	19:00:00	H	R/T	(CONT. ON 97A)
-----	-----	-----	----------	----------	---	-----	----------------

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:	:	:	:	:	:	:	:
---	---	---	---	---	---	---	---

:	:	:	:	:	:	:	:
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:	:	:	:	:	:	:	:
---	---	---	---	---	---	---	---

:	:	:	:	:	:	:	:
---	---	---	---	---	---	---	---

ASTP-TIME LINE (POST-MISSION)

PAGE 096

ATS 496-0389
 BDA 494-0297
 ROS 493-0232
 MIL 492-0289
 DUMP M(61) M(61)
 EVENT
 HBR ΔREV 91 *BLOCK 26

LBR
 202:17:30 35 40 45 50 55 202:18:00
 1 149:30

MAD

3

ATS 496-0389

DUMP
 EVENT
 HBR

LBR
 202:18:00 05 10 15 20 25 202:18:30
 1 150:00

2

VAN 499-0569
 ATS 496-0389
 DUMP M(61) M(62)
 EVENT
 HBR

LBR
 202:18:30 35 40 45 50 55 202:19:00
 150:30

202:17:30

150:40 CTE

202:19:00

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO:26

GMT DAY NO:202

PAGE:97A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:
569	VAN	258	19:00:00	19:00:31	H	R/T	
390	ATS	322	19:00:38	19:16:54	L	D/T	
208	GDS	259	19:16:59	19:18:38	H	R/T	
390	ATS	322	19:18:41	19:28:32	L	D/T	
390	ATS	260	19:28:34	19:32:33	H	R/T	
			: :	: :			
390	MAD	262	19:35:59	19:42:27	H	R/T	
			: :	: :			
390	ATS	260	19:47:24	19:56:35	H	R/T	
			: :	: :			
429	ATS	229R	19:58:43	20:05:09	H	D/T	
			: :	: :			
569	VAN	264	20:26:23	20:30:00	H	R/T	HAS 22 SEC GAP
			: :	: :			
429	ATS	229R	20:28:38	20:30:00	H	D/T	(CONT. ON 98A)

ASTP-TIME LINE (POST-MISSION)

PAGE 097

VAN 499-0569
=====

ROS

501-0231
=====

GDS

500-0208
=====

ATS

503-0390
=====

DUMP

M(62)

M(62)

EVENT

HBR

ΔREV 92

LBR

202:19:00

05

10

15

20

25

202:19:30

1

151:00

MAD

503-0390

ATS

4

DUMP
EVENT

Δ M(61),(62) DUMP

M(63)
=====

HBR

LBR

202:19:30

35

40

45

50

55

202:20:00

1

151:30

ORR

780-0458
=====

VAN

507-0569
=====

4

DUMP
EVENT

M(63)

M(63)

M(63)
=====

HBR

LBR

202:20:00

05

10

15

20

25

202:20:30

152:00

202:19:00

152:10 CTE

202:20:30

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO:26

GMT DAY NO:202

PAGE:98A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:

429	ATS	229R	20:30:00	20:33:29	H	D/T	
			: :	: :			
429	ATS	229R	20:44:44	20:49:34	H	D/T	
208	GDS	265	20:47:02	20:53:23	H	R/T	
			: :	: :			
429	ATS	229R	20:58:43	21:03:23	H	D/T	
			: :	: :			
429	ATS	229R	21:10:13	21:11:20	H	D/T	
391	MAD	266	21:09:37	21:13:18	H	R/T	HAS 6 SEC GAP
429	ATS	229R	21:12:39	21:14:48	H	D/T	
			: :	: :			
429	ATS	229R	21:26:39	21:29:43	H	D/T	
380	GWM	371	21:29:43	21:31:31	H	D/T	
380	GWM	272	21:31:57	21:53:31	L	D/T	
457	ORR	267	21:53:35	21:55:16	H	R/T	
380	GWM	272	21:55:19	22:00:00	L	D/T	(CONT. ON 99A)

ASTP-TIME LINE (POST-MISSION)

PAGE 098

1

2

GDS

508-0208

507-0569

VAN

M(63)

DUMP

EVENT

HBR

M(64)

M(64)

ΔREV 93

LBR

202:20:30 35 40 45 50 55 202:21:00
152:30

1

2

MAD

510-0391

4

DUMP

M(64)

EVENT

HBR

M(65)

M(65)

M(65)

GWM

ΔM

LBR

202:21:00 05 10 15 20 25 202:21:30
153:00

1

2

ORR

516-0457

4

DUMP

GWM

EVENT

HBR

GWM

LBR

202:21:30 35 40 45 50 55 202:22:00
153:30

202:20:30

152:40 CTE

202:22:00

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO: 26/27

GMT DAY NO:202

PAGE: 99A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:

380	GWM	272	22:00:00	22:09:45	L	D/T
-----	-----	-----	----------	----------	---	-----

235	HAW	268	22:09:47	22:14:00	H	R/T
-----	-----	-----	----------	----------	---	-----

433	ATS	234	22:11:50	22:18:12	H	D/T
-----	-----	-----	----------	----------	---	-----

298	BDA	269	22:	:	22:	:			NO DATA ON TAPE
-----	-----	-----	-----	---	-----	---	--	--	-----------------

392	ATS	270	22:34:47	23:23:06	H	R/T
-----	-----	-----	----------	----------	---	-----

BLOCK NO: 27

Figure 1 is a line graph showing the number of cases of COVID-19 in the United States from March 2020 to March 2021. The y-axis represents the number of cases, ranging from 0 to 1,000,000. The x-axis represents time, with labels for March 2020, May 2020, July 2020, September 2020, November 2020, January 2021, March 2021, and May 2021. The graph shows a sharp increase in cases starting in March 2020, peaking in May 2020 at approximately 1,000,000 cases, followed by a decline and then a second, even higher peak in May 2021 at approximately 1,500,000 cases.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----

1. The first part of the document is a list of 10 items, each with a number and a description. The items are:

1. The first part of the document is a list of 10 items, each with a number and a description. The items are:
2. The second part of the document is a list of 10 items, each with a number and a description. The items are:
3. The third part of the document is a list of 10 items, each with a number and a description. The items are:
4. The fourth part of the document is a list of 10 items, each with a number and a description. The items are:
5. The fifth part of the document is a list of 10 items, each with a number and a description. The items are:
6. The sixth part of the document is a list of 10 items, each with a number and a description. The items are:
7. The seventh part of the document is a list of 10 items, each with a number and a description. The items are:
8. The eighth part of the document is a list of 10 items, each with a number and a description. The items are:
9. The ninth part of the document is a list of 10 items, each with a number and a description. The items are:
10. The tenth part of the document is a list of 10 items, each with a number and a description. The items are:

```

1
2
HAW          518-0235
              =====
4
DUMP  GWM          M(66)
EVENT ~~~~~
HBR    -----
LBR    -----
      +-----+
202:22:00  05      10      15      20      25      202:22:30
                      154:00

```

```

1
BDA          521-0298
              =====
ATS          520-0392
              =====
ACN          522-0498
              =====
DUMP
EVENT
HBR    -----
LBR    -----
      +-----+
202:22:30  35      40      45      50      55      202:23:00
                      154:30

```

```

1
2
3
ATS          520-0392
              =====
DUMP
EVENT
HBR    -----
LBR    -----
      +-----+
202:23:00  05      10      15      20      25      202:23:30
                      155:00

```

202:22:00 155:10 CTE 202:23:30

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO:27

GMT DAY NO:202/203

PAGE:100A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:

			: :	: :			
--	--	--	-----	-----	--	--	--

299	BDA	115	00:06:07	00:06:36	H	R/T	
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433	ATS	234	00:06:37	00:08:17	H	D/T	
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299	BDA	115	00:07:01	00:11:43	H	R/T	
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429	ATS	229R	00:12:00	00:17:07	H	R/T	
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			: :	: :			
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498	ACN	230	00:21:55	00:25:25	H	R/T	
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429	ATS	229R	00:43:54	00:50:29	H	R/T	HAS 4 SEC GAP
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			: :	: :			
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			: :	: :			
--	--	--	-----	-----	--	--	--

1
2
3
4

DUMP
EVENT
HBR

LBR

202:23:30 35 40 45 50 55 203:00:00
155:30

1

ATS

525-0429

ACN

526-0498

BDA

523-0299

DUMP

EVENT AREV 95

HBR

M(67)

Δ M(63),(64),(65) DUMP

LBR

203:00:00 05 10 15 20 25 203:00:30
156:00

1

2

3

ATS

525-0429

DUMP

EVENT

HBR

LBR

203:00:30 35 40 45 50 55 203:01:00
156:30

202:23:30

156:40 CTE

203:01:00

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO: 27

GMT DAY NO: 203

PAGE: 101A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:

380	GWM	231	01:03:38	01:10:10	H	R/T	HAS 15 SEC GAP
-----	-----	-----	----------	----------	---	-----	----------------

433	ATS	234	01:35:32	01:38:27	H	D/T
-----	-----	-----	----------	----------	---	-----

291	MIL	232	01:35:40	01:38:57	H	R/T	.
-----	-----	-----	----------	----------	---	-----	---

300	BDA	233	01:36:58	01:41:28	H	R/T
-----	-----	-----	----------	----------	---	-----

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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433	ATS	234	01:45:25	02:02:18	H	R/T
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433	ATS	234	02:11:20	02:30:00	H	R/T	(CONT. ON 102A)
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Figure 1. The effect of the number of trials on the number of correct responses. The number of correct responses was plotted against the number of trials for each condition. The number of correct responses increased with the number of trials for all conditions. The number of correct responses was highest for the condition with the highest number of trials (10 trials) and lowest for the condition with the lowest number of trials (2 trials).

ASTP-TIME LINE (POST-MISSION)

PAGE 101

1

2

525-0429
ATS =====

528-0380D
GWM =====

M(66)
DUMP
EVENT
HBR -----

LBR

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203:01:00 05 10 15 20 25 203:01:30

523-0433 157:00
ATS =====

531-0300
BDA =====

530-0291
MIL =====

529-0233
ROS =====

M(66)
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LBR

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203:01:30 35 40 45 50 55 203:02:00
157:30

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532-0433
ATS =====

Δ M(66) DUMP
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203:02:00 05 10 15 20 25 203:02:30
158:00

203:01:00

158:10 CTE

203:02:30

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO: 27/28

GMT DAY NO: 203

PAGE: 102A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:
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433	ATS	234	02:30:00	02:34:52	H	R/T	
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206	GDS	235	03:00:44	03:04:48	H	R/T	
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BLOCK NO: 28

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465	QUI	637	03:13:45	03:19:12	H	R/T	
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437	ATS	638	03:24:26	04:00:00	H	R/T	(CONT. ON 103A)
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532-0433

ATS 002-0433
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DUMP Δ M(67) DUMP
EVENT
HBR -----

LER

203:02:30 35 40 45 50 55 203:03:00

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QUI

536-04650

Year	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100
1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	

HIS

537-0437

534-02060

GDS

DUMP
EVENT
HBB ----- * BLOCK 28 ΔREV 97

EVENT * BLOCK 28 ΔREV 97

HBR -----

LER

203:03:00 05 10 15 20 25 203:03:30

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22

13

537-0437

ATS =====

DUMP

EVENT

LEER

203:03:30 35 40 45 50 55 203:04:00
159:30

203:02:30

159:40 CTE

203:04:00

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO: 28

GMT DAY NO:203

PAGE: 103A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MM:SEC	GMT TO HR:MM:SEC	BIT RATE	R/T OR D/T	REMARKS:
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NO.      |      | NO.      | HR:MM:SS| HR:MM:SS| RATE| D/F |
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437	ATS	638	04:00:00	04:13:06	H	R/T
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207	GDS	639	04:36:51	04:37:51	H	R/T
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445	ATS	642	04:38:06	04:54:23	H	D/T
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378	AGO	640	04:54:01	04:59:00	H	R/T
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445	ATS	642	04:58:19	05:19:04	H	D/T
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234	HAW	643	05:19:05	05:23:27	H	D/T	HAS 6 SEC GAP
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441	ATS	641	05:22:55	05:30:00	H	R/T	(CONT. ON 104A)
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ATS 537-0437
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DUMP M(68)
EVENT
HBR

LBR

203:04:00 05 10 15 20 25 203:04:30
160:00

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AG0 540-0378
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GDS 539-0207
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DUMP M(68) M(68) M(69)
EVENT
HBR

LBR

203:04:30 35 40 45 50 55 203:05:00
160:30

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ATS 541-0441
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DUMP M(69) HAW
EVENT
HBR

LBR

203:05:00 05 10 15 20 25 203:05:30
161:00

203:04:00

161:10 CTE

203:05:30

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO:28

GMT DAY NO:203

PAGE:104A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:
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441	ATS	641	05:30:00	05:45:24	H	R/T	
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532	ATS	796	06:02:49	06:33:17	L	D/T	
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445	ATS	642	06:33:27	06:41:12	H	R/T	
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ATS 541-0441
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DUMP HAW
EVENT
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203:05:30 35 40 45 50 55 203:06:00
161:30

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AGO 779-0378
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DUMP HAW
EVENT
HBR -----

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203:06:00 05 10 15 20 25 203:06:30
162:00

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ATS 545-0445
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DUMP HAW
EVENT
HBR -----

LBR
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203:06:30 35 40 45 50 55 203:07:00
162:30

203:05:30

162:40 CTE

203:07:00

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO: 28

GMT DAY NO: 203

PAGE: 105A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:

445	ATS	642	07:19:11	07:20:10	H	R/T	HAS 6 SEC GAP
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234	HAW	644	07:32:21	07:35:59	H	R/T
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234	HAW	644	07:37:09	07:39:35	H	R/T
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Category	Value
Category 1	1.1
Category 2	1.1
Category 3	1.1
Category 4	1.1
Category 5	1.1
Category 6	1.1
Category 7	1.1
Category 8	1.1
Category 9	1.1
Category 10	1.1
Category 11	1.1
Category 12	1.1
Category 13	1.1
Category 14	1.1
Category 15	1.1
Category 16	1.1
Category 17	1.1
Category 18	1.1
Category 19	1.1
Category 20	1.1
Category 21	1.1
Category 22	1.1
Category 23	1.1
Category 24	1.1
Category 25	1.1
Category 26	1.1
Category 27	1.1
Category 28	1.1
Category 29	1.1
Category 30	1.1
Category 31	1.1
Category 32	1.1
Category 33	1.1
Category 34	1.1
Category 35	1.1
Category 36	1.1
Category 37	1.1
Category 38	1.1
Category 39	1.1
Category 40	1.1
Category 41	1.1
Category 42	1.1
Category 43	1.1
Category 44	1.1
Category 45	1.1
Category 46	1.1
Category 47	1.1
Category 48	1.1
Category 49	1.1
Category 50	1.1
Category 51	1.1
Category 52	1.1
Category 53	1.1
Category 54	1.1
Category 55	1.1
Category 56	1.1
Category 57	1.1
Category 58	1.1
Category 59	1.1
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Category 63	1.1
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Category 72	1.1
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Category 79	1.1
Category 80	1.1
Category 81	1.1
Category 82	1.1
Category 83	1.1
Category 84	1.1
Category 85	1.1
Category 86	1.1
Category 87	1.1
Category 88	1.1
Category 89	1.1
Category 90	1.1
Category 91	1.1
Category 92	1.1
Category 93	1.1
Category 94	1.1
Category 95	1.1
Category 96	1.1
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Category 98	1.1
Category 99	1.1
Category 100	1.1

448	ATS	645	08:04:08	08:15:43	H	R/T
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544-0445

ATS =====

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163:00

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546-0234D

HAW =====

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203:07:30 35 40 45 50 55 203:08:00
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547-0448

ATS =====

DUMP

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203:08:00 05 10 15 20 25 203:08:30
164:00

203:07:00

164:10 GET

203:08:30

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO:28/29

GMT DAY NO:203

PAGE:106A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:
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448	ATS	645	08:47:03	08:51:42	H	R/T	
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498	ACN	646	09:50:25	09:52:50	H	R/T	
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BLOCK NO: 29

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ATS 547-0448

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M(71)

DUMP

EVENT

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LBR

203:08:30 35 40 45 50 55 203:09:00
164:30

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M(71)

DUMP

EVENT

HBR

LBR

203:09:00 05 10 15 20 25 203:09:30
165:00

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ACN

551-0498

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M(71)

DUMP

EVENT

HBR

M(71)

ΔREV 101

* BLOCK 29

LBR

203:09:30 35 40 45 50 55 203:10:00
165:30

203:08:30

165:40 CTE

203:10:00

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO: 29

GMT DAY NO:203

PAGE: 107A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:
381	GWM	647	10:32:29	10:33:49	H	R/T	
570	VAN	648	10:45:55	10:52:17	H	R/T	
373	AGO	649	11:09:	11:11:	H	R/T	NOT PROCESSED
498	ACN	650	11:25:	11:27:	H	R/T	NOT PROCESSED

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M(71)
DUMP
EVENT
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LBR
203:10:00 05 10 15 20 25 203:10:30
166:00

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VAN 553-0570
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GWM 552-0381
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M(71) M(71) M(71)
DUMP
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203:10:30 35 40 45 50 55 203:11:00
166:30

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ACN 556-0498
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3

AGO 554-0373
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M(71) M(71) M(71)
DUMP
EVENT
HBR

LBR
203:11:00 05 10 15 20 25 203:11:30
167:00

203:10:00 167:10 CTE 203:11:30

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO: 29

GMT DAY NO:203

PAGE: 108A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:
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449	MAD	651	11:34:57	11:35:28	H	R/T
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532	ATS	796	11:49:38	12:02:54	L	D/T
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382	GWM	652	12:30:	12:08:	H	R/T	NOT_PROCESSED
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532	ATS	796	12:08:42	12:19:13	L	D/T
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570	VAN	653	12:19:	12:23:	H	R/T	NOT PROCESSED
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532	ATS	796	12:23:31	12:39:36	L	D/T
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373	AGO	654	12:40:	12:46:	H	R/T	NOT PROCESSED
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450	ATS	655	12:45:29	13:00:00	H	R/T	(CONT. ON 109A)
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Figure 1. The effect of the concentration of the *Agrobacterium* suspension on the transformation efficiency of *Agrobacterium* strains. The *Agrobacterium* strains were grown in the YEA medium for 24 h at 28 °C. The cell concentration of the strains was adjusted to 10⁸ cells/ml. The cell suspension was mixed with the plant tissue and the transformation efficiency was determined. The results are shown as the mean ± SD of three independent experiments. The asterisk indicates a significant difference between the control and the treatment groups (p < 0.05).

Age Group	No answer	No	Yes	Probably yes	Probably no
18-24	45%	35%	15%	3%	2%
25-34	40%	30%	20%	5%	5%
35-44	35%	25%	25%	10%	5%
45-54	30%	20%	30%	15%	5%
55-64	25%	15%	35%	20%	5%

Age Group	2006 (%)	2008 (%)
18-29	85	80
30-49	80	75
50-69	75	70
70+	70	65

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MAD 555-0449
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M(71) M(71)
DUMP M(71) M(71)
EVENT M(71) M(71)
HBR M(71) M(71)

LBR
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203:11:30 35 40 45 50 55 203:12:00
167:30

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VAN 781-0570
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GWM 557-0382
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M(71) M(71) M(71)
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EVENT M(71) M(71) M(71)
HBR M(71) M(71) M(71)

LBR
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168:00

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ATS 559-0450
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AGO 558-0373
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HBR M(71)

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203:12:30 35 40 45 50 55 203:13:00
168:30

203:11:30

168:40 CTE

203:13:00

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO: 29

GMT DAY NO: 203

PAGE: 109A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:
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450	ATS	655	13:00:00	13:38:29	H	R/T	
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467	ORR	656	13:47:	13:49:	H	R/T	NOT PROCESSED
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547	QUI	657	14:19:03	14:20:20	H	R/T	FAIR
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451	ATS	658	14:24:22	14:30:00	H	R/T	(CONT. ON 110A)
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ASTP-TIME LINE (POST-MISSION)

PAGE 109

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MAD =====

559-0450

ATS =====

DUMP Δ M(71) DUMP

EVENT

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LBR

203:13:00 05 10 15 20 25 203:13:30
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ORR

562-0467

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559-0450

ATS =====

QUI

QUI

DUMP

EVENT

HBR -----

LBR

203:13:30 35 40 45 50 55 203:14:00
169:30

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ATS

564-0451

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QUI

563-0547

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QUI

DUMP

EVENT

HBR -----

LBR

203:14:00 05 10 15 20 25 203:14:30
170:00

203:13:00

170:10 CTE

203:14:30

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO: 29/30

GMT DAY NO: 203

PAGE: 110A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:

451	ATS	657	14:30:00	14:50:50	H	R/T	

BLOCK NO: 30

			:	:	:	:	
548	QUI	324	14:57:02	14:57:31	H	D/T	
417	MIL	323	14:57:31	15:02:44	H	D/T	
452	ATS	329	15:02:57	15:25:37	H	D/T	
			:	:	:	:	
548	QUI	326	15:50:05	15:53:25	H	R/T	
			:	:	:	:	
548	QUI	326	15:54:30	15:54:34	H	R/T	
417	MIL	327	15:54:56	16:00:00	H	R/T	
383	BDA	328	15:56:34	16:00:00	H	R/T	(CONT. ON 111A)
			:	:	:	:	
			:	:	:	:	
			:	:	:	:	

ASTP-TIME LINE (POST-MISSION)

PAGE 110

1

2

MAD

564-0451

ATS

DUMP

EVENT

HBR

QUI/MIL

* BLOCK 30

LBR

203:14:30 35 40 45 50 55 203:15:00

1

2

ORR

567-0467

4

DUMP

MIL M(72)

M(73)

EVENT

HBR

LBR

203:15:00 05 10 15 20 25 203:15:30

1

BDA

570-0383D

MIL

569-0417D

QUI

568-0548D

DUMP

EVENT

HBR

ΔREV 105

LBR

203:15:30 35 40 45 50 55 203:16:00

203:14:30

171:40 CTE

203:16:00

1

```

MAD                      =====
ATS      573-0452
          =====
BDA      570-0383
          =====
DUMP                      Δ M(72),(73) DUMP
EVENT
HBR      -----
    
```

LBR

```

+++++
203:16:00  05      10      15      20      25      203:16:30
                172:00
    
```

1

2

```

ATS      573-0452
          =====
    
```

4

```

DUMP                      M(74)
EVENT                      ~~~~~
HBR      -----
    
```

LBR

```

+++++
203:16:30  35      40      45      50      55      203:17:00
                172:30
    
```

1

```

BDA                      577-0371
                          ==
ROS                      576-0294
                          =====
MIL                      575-0418
                          =====
DUMP      M(74)
EVENT      ~~~~~
HBR      -----
    
```

LBR

```

+++++
203:17:00  05      10      15      20      25      203:17:30
                173:00
    
```

203:16:00

173:10 CTE

203:17:30

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO: 30/31

GMT DAY NO: 203

PAGE: 112A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:
---------------------	------	--------------------	--------------------------	------------------------	-------------	------------------	----------

418	MIL	331	17:30:00	17:33:30	H	R/T	
-----	-----	-----	----------	----------	---	-----	--

371	BDA	332	17:30:00	17:35:45	H	R/T	HAS 30 SEC GAP
-----	-----	-----	----------	----------	---	-----	----------------

			:	:			
--	--	--	---	---	--	--	--

453	MAD	333	17:44:15	17:47:32	H	R/T	
-----	-----	-----	----------	----------	---	-----	--

			:	:			
--	--	--	---	---	--	--	--

454	ATS	336	18:01:31	18:19:12	H	D/T	
-----	-----	-----	----------	----------	---	-----	--

			:	:			
--	--	--	---	---	--	--	--

571	VAN	334	18:32:45	18:38:58	H	R/T	
-----	-----	-----	----------	----------	---	-----	--

			:	:			
--	--	--	---	---	--	--	--

283	GDS	335	18:56:14	18:58:03	H	R/T	
-----	-----	-----	----------	----------	---	-----	--

BLOCK NO: 31

			:	:			
--	--	--	---	---	--	--	--

			:	:			
--	--	--	---	---	--	--	--

			:	:			
--	--	--	---	---	--	--	--

			:	:			
--	--	--	---	---	--	--	--

ASTP-TIME LINE (POST-MISSION)

PAGE 112

ROS 576-0294
=====

MAD

579-0453
=====

MIL 575-0418
=====

BDA 577-0371
=====

DUMP M(74)
EVENT
HBR

=====

M(74)
=====

LBR

203:17:30 35 40 45 50 55 203:18:00
173:30

1

2

3

4

DUMP M(74)
EVENT
HBR

=====

LBR

203:18:00 05 10 15 20 25 203:18:30
174:00

1

2

GDS

583-0283
=====

VAN

582-0571
=====

DUMP

EVENT

HBR

M(75)
=====

M(75)
=====

* BLOCK 31

LBR

203:18:30 35 40 45 50 55 203:19:00
174:30

203:17:30

174:40 CTE

203:19:00

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO: 31

GMT DAY NO: 203

PAGE: 113A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:
			:	:			
454	ATS	336	19:13:15	19:18:31	H	R/T	
454	MAD	361	19:15:36	19:22:03	H	R/T	
			:	:			
454	ATS	336	19:40:29	19:44:46	H	R/T	
			:	:			
467	ORR	362	20: : :	20: : :	H	R/T	NO HBR DATA FOUND ON TAPE
			:	:			
571	VAN	363	20:05:06	20:11:30	H	R/T	
			:	:			
283	GDS	66	20:27:04	20:27:34	H	R/T	
455	ATS	364	20:27:11	20:28:47	H	D/T	
283	GDS	66	20:28:35	20:30:00	H	R/T	(CONT. ON 114A)
			:	:			
			:	:			

1
 588-0454
 ATS =====
 MAD =====
 ROS 584-0293
 M(75)
 DUMP M(74),(75) DUMP
 EVENT
 HBR -----
 LBR -----
 +-----+
 203:19:00 05 10 15 20 25 203:19:30
 175:00

1
 2
 588-0454
 ATS =====
 4
 DUMP
 EVENT
 HBR -----
 LBR -----
 +-----+
 203:19:30 35 40 45 50 55 203:20:00
 175:30

1
 782-0467
 ORR =====
 GDS 591-0283
 590-0571
 VAN =====
 M(76)
 DUMP M(76)
 EVENT
 HBR -----
 LBR -----
 +-----+
 203:20:00 05 10 15 20 25 203:20:30
 176:00

203:19:00

176:10 CTE

203:20:30

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO:31

GMT DAY NO:203

PAGE:114A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MM:SEC	GMT TO HR:MM:SEC	BIT RATE	R/T OR D/T	REMARKS:

283	GDS	66	20:30:00	20:32:48	H	R/T	
455	ATS	364	20:32:11	20:33:17	H	D/T	
			: :	: :			
455	ATS	364	20:47:32	20:49:02	H	R/T	
455	MAD	365	20:49:03	20:52:58	H	R/T	POOR
455	ATS	364	20:52:34	21:28:41	H	R/T	
532	ATS	796	21:29:01	21:32:32	L	D/T	
466	ORR	366	21:32:37	21:34:18	H	R/T	
532	ATS	796	21:34:23	21:49:29	L	D/T	
305	HAW	367	21:49:32	21:49:55	H	R/T	POOR
305	HAW	367	21:49:55	21:55:25	H	R/T	
532	ATS	796	21:55:42	22:00:00	L	D/T	(CONT. ON 115A)
			: :	: :			
			: :	: :			
			: :	: :			

ASTP-TIME LINE (POST-MISSION)

PAGE 114

1

MAD

593-0455
=====

ATS

591-0238

GDS

M(76)

DUMP

Δ M(76) DUMP

EVENT

ΔREV 108

HBR

LBR

203:20:30 35 40 45 50 55 203:21:00
176:30

1

2

ATS

593-0455

4

DUMP

M(77)

EVENT

HBR

LBR

203:21:00 05 10 15 20 25 203:21:30
177:00

1

ORR

596-0466

HAW

597-0305

4

DUMP

M(77)

M(77)

M(77)

EVENT

HBR

LBR

203:21:30 35 40 45 50 55 203:22:00
177:30

203:20:30

177:40 CTE

203:22:00


```

1
BDA          600-0384
              =====
ATS          599-0456
              =====
ACN          601-0499
              =====
DUMP M(77)
EVENT
HBR          :
              :
LBR          :
              :
203:22:00    05      10      15      20      25      203:22:30
              178:00
  
```

```

1
ATS          599-0456
              =====
ACN          601-0499
              =====
4
DUMP
EVENT
HBR          :
              :
LBR          :
              :
203:22:30    35      40      45      50      55      203:23:00
              178:30
  
```

```

1
2
ATS          599-0456
              =====
4
DUMP
EVENT      * BLOCK 32
HBR          :
              :
LBR          :
              :
203:23:00    05      10      15      20      25      203:23:30
              179:00
  
```

203:22:00

179:10 CTE

203:23:30

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO:32

GMT DAY NO:203/204

PAGE:116A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MM:SEC	GMT TO HR:MM:SEC	BIT RATE	R/T OR D/T	REMARKS:
			:	:			
385	BDA	802	23:44:18	23:44:22	L	R/T	
385	BDA	237	23:44:23	23:44:51	H	R/T	
385	BDA	802	23:44:52	23:45:09	L	R/T	
385	BDA	237	23:45:26	23:50:29	H	R/T	
385	BDA	802	23:50:33	23:51:10	L	R/T	POOR
419	MIL	792	23:50:46	00:01:31	L	D/T	
49Y	ACN	238	00:01:36	00:04:38	H	R/T	
419	MIL	792	00:04:57	00:20:53	L	D/T	
525	ATS	239	00:21:05	00:34:34	H	R/T	
525	ATS	794	00:34:48	00:40:43	L	R/T	
			:	:			
477	GWM	793	00:45:04	00:47:41	L	R/T	
			:	:			
			:	:			

ASTP-TIME LINE (POST-MISSION)

PAGE 116

```

1
2
BDA 603-0385
=====
4
DUMP MIL/BDA
EVENT *****
HBR
LBR
      +-----+
      203:23:30 35 40 45 50 55 204:00:00
      179:30
  
```

```

1
2
ACN 606-0499
=====
ATS 605-0525
=====
DUMP MIL/BDA MIL/BDA
EVENT *****
HBR
LBR
      +-----+
      204:00:00 05 10 15 20 25 204:00:30
      180:00
  
```

```

1
2
GWM 608-0477
=====
ATS 605-0525
=====
DUMP
EVENT
HBR
LBR
      +-----+
      204:00:30 35 40 45 50 55 204:01:00
      180:30
  
```

203:23:30

180:40 CTE

204:01:00

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO:32

GMT DAY NO:204

PAGE:117A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:

			: :	: :			

419	MIL	795	01:13:43	01:14:25	L	R/T	
-----	-----	-----	----------	----------	---	-----	--

419	MIL	242	01:14:26	01:20:45	H	R/T	HAS 6 SEC GAP
-----	-----	-----	----------	----------	---	-----	---------------

376	BDA	243	01:16:22	01:17:23	H	R/T	
-----	-----	-----	----------	----------	---	-----	--

532	ATS	796	01:20:57	02:05:00	L	D/T	
-----	-----	-----	----------	----------	---	-----	--

528	ATS	244	02:05:11	02:18:22	H	R/T	
-----	-----	-----	----------	----------	---	-----	--

532	ATS	796	02:18:39	02:30:00	L	D/T	(CONT. ON 118A)
-----	-----	-----	----------	----------	---	-----	-----------------

			: :	: :			
--	--	--	-----	-----	--	--	--

			: :	: :			
--	--	--	-----	-----	--	--	--

			: :	: :			
--	--	--	-----	-----	--	--	--

			: :	: :			
--	--	--	-----	-----	--	--	--

			: :	: :			
--	--	--	-----	-----	--	--	--

			: :	: :			
--	--	--	-----	-----	--	--	--

			: :	: :			
--	--	--	-----	-----	--	--	--

ATS 612-0528
 =====
 BDA 611-0376D
 =====
 MIL 610-0419D
 =====
 ROS 609-0292D
 =====
 DUMP M(77)
 EVENT
 HBR

 LBR

 204:01:00 05 10 15 20 25 204:01:30
 181:00

1
 2
 612-0528
 ATS =====
 4
 M(77)
 DUMP
 EVENT
 HBR

 LBR

 204:01:30 35 40 45 50 55 204:02:00
 181:30

1
 2
 612-0528
 ATS =====
 4
 M(77) M(77)
 DUMP
 EVENT
 HBR

 LBR

 204:02:00 05 10 15 20 25 204:02:30
 182:00

204:01:00 182:10 CTE 204:02:30

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO:32

GMT DAY NO:204

PAGE:118A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:

532	ATS	796	02:30:00	02:40:10	L	D/T	
283	GDS	245	02:40:12	02:44:31	H	R/T	
283	GDS	245	02:45:03	02:45:11	H	R/T	
532	ATS	796	02:45:21	02:53:29	L	D/T	
579	QUI	798	02:53:11	02:54:25	L	R/T	
579	QUI	246	02:54:26	02:58:17	H	R/T	
579	QUI	798	02:58:24	02:59:21	L	R/T	HAS 10 SEC GAP
			: :	: :			
532	ATS	799	03:08:06	03:08:29	L	R/T	HAS 9 SEC GAP
532	ATS	247	03:08:31	03:14:54	H	R/T	
			: :	: :			
532	ATS	247	03:26:20	03:53:47	H	R/T	
532	ATS	799	03:54:04	03:54:33	L	R/T	
534	ATS	800	03:54:09	04:00:00	L	D/T	(CONT. ON 119A)
			: :	: :			

ASTP-TIME LINE (POST-MISSION)

PAGE 118

1

GDS

614-0283
=====

QUI

615-0579
=====

4

DUMP
EVENT
HBR

M(77)
=====

M(77)
=====

ΔREV 112

LBR

204:02:30 35 40 45 50 55 204:03:00
182:30

1

2

ATS

616-0532
=====

4

DUMP
EVENT
HBR

Δ M(77) DUMP

LBR

204:03:00 05 10 15 20 25 204:03:30
183:00

1

2

ATS

616-0532
=====

4

DUMP
EVENT
HBR

M(78)
=====

LBR

204:03:30 35 40 45 50 55 204:04:00
183:30

204:02:30

183:40 CTE

204:04:00

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO: 32/33

GMT DAY NO: 204

PAGE: 119A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:
---------------------	------	--------------------	--------------------------	------------------------	-------------	------------------	----------

534	ATS	800	04:00:00	04:14:25	L	D/T	
-----	-----	-----	----------	----------	---	-----	--

283	GDS	801	04:14:03	04:14:29	L	R/T	
-----	-----	-----	----------	----------	---	-----	--

283	GDS	248	04:14:30	04:17:12	H	R/T	
-----	-----	-----	----------	----------	---	-----	--

534	ATS	251	04:16:17	04:32:36	H	D/T	
-----	-----	-----	----------	----------	---	-----	--

460	AG0	249	04:32:38	04:38:32	H	R/T	
-----	-----	-----	----------	----------	---	-----	--

BLOCK NO: 33

533	ATS	250	04:38:13	05:25:42	H	R/T	
-----	-----	-----	----------	----------	---	-----	--

:	:	:	:	:	:	:
---	---	---	---	---	---	---

:	:	:	:	:	:	:
---	---	---	---	---	---	---

:	:	:	:	:	:	:
---	---	---	---	---	---	---

:	:	:	:	:	:	:
---	---	---	---	---	---	---

:	:	:	:	:	:	:
---	---	---	---	---	---	---

:	:	:	:	:	:	:
---	---	---	---	---	---	---

:	:	:	:	:	:	:
---	---	---	---	---	---	---

:	:	:	:	:	:	:
---	---	---	---	---	---	---

ASTP-TIME LINE (POST-MISSION)

PAGE 119

1

2

GDS

618-0283

=====

4

M(78)

M(78)

DUMP

EVENT

HBR

LBR

204:04:00

05

10

15

20

25

204:04:30

1

184:00

AGD

619-0460

=====

ATS

620-0533

=====

4

M(79)

DUMP

EVENT ΔREV 113

* BLOCK 33

HBR

LBR

204:04:30

35

40

45

50

55

204:05:00

1

184:30

2

ATS

620-0533

=====

4

DUMP

EVENT

HBR

HAW

LBR

204:05:00

05

10

15

20

25

204:05:30

185:00

204:04:00

185:10 CTE

204:05:30

1
2
3
4

DUMP HAW
EVENT
HBR

LBR
+-----+
204:05:30 35 40 45 50 55 204:06:00
185:30

1
2

ATS 623-0534
=====

4

DUMP HAW
EVENT
HBR

LBR
+-----+
204:06:00 05 10 15 20 25 204:06:30
186:00

1
2

ATS 623-0534
=====

4

DUMP
EVENT
HBR

LBR
+-----+
204:06:30 35 40 45 50 55 204:07:00
186:30

204:05:30

186:40 CTE

204:07:00

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO: 33

GMT DAY NO: 204

PAGE: 121A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:

309

HAW

252

07:11:28

07:19:16

H

R/T

535

ATS

253

07:45:13

08:30:00

H

R/T

(CONT. ON 122A)

ASTP-TIME LINE (POST-MISSION)

PAGE 121

1

2

3

HAW

625-0309D

DUMP
EVENT
HBR

LBR

204:07:00 05 10 15 20 25 204:07:30
187:00

1

2

3

ATS

626-0535

DUMP
EVENT
HBR

ΔREV 115

LBR

204:07:30 35 40 45 50 55 204:08:00
187:30

1

2

3

ATS

626-0535

DUMP
EVENT
HBR

LBR

204:08:00 05 10 15 20 25 204:08:30
188:00

204:07:00

188:10 CTE

204:08:30

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO: 33

GMT DAY NO: 204

PAGE: 122A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:

535	ATS	253	08:30:00	08:30:43	H	R/T
-----	-----	-----	----------	----------	---	-----

500	ACN	254	09:29:45	09:33:21	H	R/T
-----	-----	-----	----------	----------	---	-----

[illegible]

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----

Figure 1 illustrates the experimental setup. A participant is seated at a table, viewing a screen. The screen displays a target (a red dot) and a starting point (a green dot). The participant's hand is positioned at the starting point. The diagram shows the spatial relationship between the participant, the screen, and the target, with labels for 'Participant', 'Screen', 'Target', and 'Starting Point'.

1. The first part of the document is a header section containing the title "THE EFFECTS OF THE 1997-1998 EL NIÑO ON THE
 2. FISHING INDUSTRY IN THE STATE OF CALIFORNIA" and the author's name "JAMES H. HARRIS".

3. The second part of the document is a table of contents. The table has two columns: "Page" and "Section". The rows are:

Page	Section
1	1. INTRODUCTION
2	2. THE FISHING INDUSTRY IN CALIFORNIA
3	3. THE 1997-1998 EL NIÑO
4	4. THE EFFECTS OF THE 1997-1998 EL NIÑO ON THE FISHING INDUSTRY
5	5. CONCLUSIONS
6	6. REFERENCES
7	7. APPENDICES
8	8. INDEX
9	9. GLOSSARY
10	10. ABBREVIATIONS
11	11. ACKNOWLEDGMENTS
12	12. NOTES
13	13. REFERENCES
14	14. APPENDICES
15	15. INDEX
16	16. GLOSSARY
17	17. ABBREVIATIONS
18	18. ACKNOWLEDGMENTS
19	19. NOTES
20	20. REFERENCES
21	21. APPENDICES
22	22. INDEX
23	23. GLOSSARY
24	24. ABBREVIATIONS
25	25. ACKNOWLEDGMENTS
26	26. NOTES
27	27. REFERENCES
28	28. APPENDICES
29	29. INDEX
30	30. GLOSSARY
31	31. ABBREVIATIONS
32	32. ACKNOWLEDGMENTS
33	33. NOTES
34	34. REFERENCES
35	35. APPENDICES
36	36. INDEX
37	37. GLOSSARY
38	38. ABBREVIATIONS
39	39. ACKNOWLEDGMENTS
40	40. NOTES
41	41. REFERENCES
42	42. APPENDICES
43	43. INDEX
44	44. GLOSSARY
45	45. ABBREVIATIONS
46	46. ACKNOWLEDGMENTS
47	47. NOTES
48	48. REFERENCES
49	49. APPENDICES
50	50. INDEX
51	51. GLOSSARY
52	52. ABBREVIATIONS
53	53. ACKNOWLEDGMENTS
54	54. NOTES
55	55. REFERENCES
56	56. APPENDICES
57	57. INDEX
58	58. GLOSSARY
59	59. ABBREVIATIONS
60	60. ACKNOWLEDGMENTS
61	61. NOTES
62	62. REFERENCES
63	63. APPENDICES
64	64. INDEX
65	65. GLOSSARY
66	66. ABBREVIATIONS
67	67. ACKNOWLEDGMENTS
68	68. NOTES
69	69. REFERENCES
70	70. APPENDICES
71	71. INDEX
72	72. GLOSSARY
73	73. ABBREVIATIONS
74	74. ACKNOWLEDGMENTS
75	75. NOTES
76	76. REFERENCES
77	77. APPENDICES
78	78. INDEX
79	79. GLOSSARY
80	80. ABBREVIATIONS
81	81. ACKNOWLEDGMENTS
82	82. NOTES
83	83. REFERENCES
84	84. APPENDICES
85	85. INDEX
86	86. GLOSSARY
87	87. ABBREVIATIONS
88	88. ACKNOWLEDGMENTS
89	89. NOTES
90	90. REFERENCES
91	91. APPENDICES
92	92. INDEX
93	93. GLOSSARY
94	94. ABBREVIATIONS
95	95. ACKNOWLEDGMENTS
96	96. NOTES
97	97. REFERENCES
98	98. APPENDICES
99	99. INDEX
100	100. GLOSSARY

1

2

ATS 625-0535
===

4

DUMP VAN
EVENT
HBR --

LBR

204:08:30 35 40 45 50 55 204:09:00
188:30

1

2

ACN

630-0500
===

4

DUMP VAN
EVENT
HBR --

LBR

204:09:00 05 10 15 20 25 204:09:30
189:00

1

2

ACN 630-0500
=====

4

DUMP VAN
EVENT
HBR -----

LBR

204:09:30 35 40 45 50 55 204:10:00
189:30

204:08:30

189:40 CTE

204:10:00

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO: 33/34

GMT DAY NO: 204

PAGE: 123A

 SITE | SITE | DATA | GMT | GMT | BIT | R/T |
 TAPE | SITE | REQ | FROM | TO | RATE | OR | REMARKS:
 NO. | NO. | HR:MN:SEC | HR:MN:SEC | D/T |

479	GWM	255	10:11:28	10:13:25	H	R/T	
-----	-----	-----	----------	----------	---	-----	--

572	VAN	256	10:25:45	10:30:24	H	R/T	
-----	-----	-----	----------	----------	---	-----	--

BLOCK NO: 34

501	ACN	482	11:03:07	11:05:41	H	R/T	
-----	-----	-----	----------	----------	---	-----	--

536	ATS	390	11:04:44	11:05:33	H	R/T	HAS 16 SEC GAP
-----	-----	-----	----------	----------	---	-----	----------------

536	ATS	390	11:06:51	11:30:00	H	R/T	(CONT. ON 124A)
-----	-----	-----	----------	----------	---	-----	-----------------

1

VAN

632-0572

GWM

631-0479

=====

4

DUMP
EVENT
HBR

VAN

VAN

=====

=====

LBR

+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
204:10:00 05 10 15 20 25 204:10:30

1

ATS

784-0536

AGO

633-0460

VAN

632-0572

DUMP
EVENT
HBR

VAN

=====

AREV 117 *BLOCK 34

LBR

+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
204:10:30 35 40 45 50 55 204:11:00

1

MAD

784-0536

ATS

634-0501

ACN

VAN

DUMP
EVENT
HBR

=====

LBR

+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
204:11:00 05 10 15 20 25 204:11:30
191:00

204:10:00

191:10 CTE

204:11:30

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO:34

GMT DAY NO:204

PAGE:124A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:

536	ATS	390	11:30:00	11:36:07	H	R/T	
-----	-----	-----	----------	----------	---	-----	--

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478	GWM	391	11:42:11	11:44:14	H	R/T	VERY POOR
-----	-----	-----	----------	----------	---	-----	-----------

478	GWM	391	11:45:16	11:47:31	H	R/T	FAIR
-----	-----	-----	----------	----------	---	-----	------

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573	VAN	392	11:57:25	12:03:04	H	R/T	
-----	-----	-----	----------	----------	---	-----	--

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459	AGO	393	12:18:55	12:21:58	H	R/T	
-----	-----	-----	----------	----------	---	-----	--

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537	ATS	394	12:25:20	12:25:52	H	R/T	
-----	-----	-----	----------	----------	---	-----	--

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537	MAD	395	12:43:38	12:50:00	H	R/T	
-----	-----	-----	----------	----------	---	-----	--

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ASTP-TIME LINE (POST-MISSION)

PAGE 124

1
 VAN 549-0573D
 =====
 GWM 636-0478D
 =====
 ATS 784-0536
 =====
 DUMP
 EVENT
 HBR -----
 LBR
 +-----+
 204:11:30 35 40 45 50 55 204:12:00
 191:30

1
 VAN 549-0573D
 =====
 ATS 639-0537
 =====
 AGO 637-0459
 =====
 DUMP
 EVENT AREV 118
 HBR : -----
 :
 :
 LBR
 +-----+
 204:12:00 05 10 15 20 25 204:12:30
 192:00

1
 2
 MAD
 =====
 ATS 639-0537
 =====
 DUMP
 EVENT
 HBR -----
 LBR
 +-----+
 204:12:30 35 40 45 50 55 204:13:00
 192:30

204:11:30

192:40 CTE

204:13:00

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO:34

GMT DAY NO:204

PAGE:125A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:

			:	:			
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537	ATS	394	13:02:54	13:17:55	H	R/T	
-----	-----	-----	----------	----------	---	-----	--

541	ATS	275	13:18:21	13:25:51	L	D/T	
-----	-----	-----	----------	----------	---	-----	--

483	ORR	396	13:25:56	13:28:32	H	R/T	
-----	-----	-----	----------	----------	---	-----	--

541	ATS	275	13:28:56	13:57:44	L	D/T	
-----	-----	-----	----------	----------	---	-----	--

580	QUI	397	13:57:49	14:00:19	H	R/T	
-----	-----	-----	----------	----------	---	-----	--

			:	:			
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538	ATS	398	14:04:48	14:30:00	H	R/T	(CONT. ON 126A)
-----	-----	-----	----------	----------	---	-----	-----------------

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			:	:			
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1

ORR

641-0483

=====

ATS 639-0537

=====

4

DUMP
EVENT
HBR

M(80)

NNNNNNNNNNNNNNNNNN

M(80)

NNN

LBR

+-----+
204:13:00 05 10 15 20 25 204:13:30
193:00

1

2

QUI

642-0580

=====

4

M(80)
DUMP
EVENT
HBR

+-----+
204:13:30 35 40 45 50 55 204:14:00
193:30

AREV 119

:

:

LBR

+-----+
204:13:30 35 40 45 50 55 204:14:00
193:30

1

QUI 642-0580

===

MAD

=====

ATS

=====

DUMP
EVENT
HBR

LBR

+-----+
204:14:00 05 10 15 20 25 204:14:30
194:00

204:13:00

194:10 CTE

204:14:30

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO: 34/35

GMT DAY NO: 204

PAGE: 126A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MM:SEC	GMT TO HR:MM:SEC	BIT RATE	R/T OR D/T	REMARKS:
*****	*****	*****	*****	*****	*****	*****	*****
538	ATS	398	14:30:00	14:55:42	H	R/T	

BLOCK NO: 35

[illegible]

ASTP-TIME LINE (POST-MISSION)

PAGE 126

```

1
2
3   643-0538
ATS  =====
4
DUMP                                     M(80)
EVENT                                  *BLOCK 35
HBR  -----
LBR  -----
      +--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
204:14:30  35      40      45      50      55      204:15:00
                        194:30
  
```

```

1
2
3
4   M(80)
DUMP  =====
EVENT
HBR  -----
LBR  -----
      +--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
204:15:00  05      10      15      20      25      204:15:30
                        650-0539      195:00
ATS  =====
BDA  649-0470
      =====
MAD  =====
QUI  647-0581
      =====
DUMP  M(80)
EVENT  ΔREV 120
HBR  -----
LBR  -----
      +--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
204:15:30  35      40      45      50      55      204:16:00
                        195:30
  
```

204:14:30

195:40 CTE

204:16:00

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO: 35

GMT DAY NO: 204

PAGE: 127A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:

539	ATS	280	16:00:00	16:30:20	H	R/T
-----	-----	-----	----------	----------	---	-----

541	ATS	275	16:30:41	17:06:10	L	D/T
-----	-----	-----	----------	----------	---	-----

420	MIL	282	17:05:45	17:06:13	L	R/T
-----	-----	-----	----------	----------	---	-----

420	MIL	281	17:06:14	17:12:54	H	R/T
-----	-----	-----	----------	----------	---	-----

468	BDA	283	17:09:27	17:14:06	H	R/T
-----	-----	-----	----------	----------	---	-----

540	ATS	285	17:14:21	17:30:00	H	R/T	(CONT. ON 128A)
-----	-----	-----	----------	----------	---	-----	-----------------

468	BDR	283	17:14:33	17:15:36	H	R/T
-----	-----	-----	----------	----------	---	-----

ASTP-TIME LINE (POST-MISSION)

PAGE 127

1

2

ATS 650-0539

=====

4

DUMP
EVENT
HBR

LBR

204:16:00 05 10 15 20 25 204:16:30
196:00

1

2

ATS 650-0539

=====

4

DUMP M(80)

EVENT

HBR --

LBR

204:16:30 35 40 45 50 55 204:17:00

658-0540 196:30

=====

656-0468

=====

MAD

=====

MIL 654-0420

=====

DUMP M(80)

EVENT

HBR ΔREV 121

=====

LBR

204:17:00 05 10 15 20 25 204:17:30
197:00

204:16:00

197:10 CTE

204:17:30

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO: 35

GMT DAY NO: 204

PAGE: 128A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MM:SEC	GMT TO HR:MM:SEC	BIT RATE	R/T OR D/T	REMARKS:
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540	ATS	285	17:30:00	18:02:32	H	R/T
-----	-----	-----	----------	----------	---	-----

541	ATS	275	18:02:59	18:11:29	L	D/T	HAS 47 SEC GAP
-----	-----	-----	----------	----------	---	-----	----------------

574	VAN	286	18:11:30	18:16:22	H	R/T
-----	-----	-----	----------	----------	---	-----

541	ATS	275	18:16:36	18:34:57	L	D/T
-----	-----	-----	----------	----------	---	-----

357	GDS	57	18:35:29	18:37:17	H	R/T
-----	-----	----	----------	----------	---	-----

541	ATS	275	18:37:39	18:47:42	L	D/T
-----	-----	-----	----------	----------	---	-----

541	ATS	277	18:47:43	18:55:18	H	R/T
-----	-----	-----	----------	----------	---	-----

541	MAD	278	18:54:53	19:00:00	H	R/T	(CONT. ON 1298)
-----	-----	-----	----------	----------	---	-----	-----------------

1	2	3	4	5
6	7	8	9	10

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----

20	20	20	20
20	20	20	20

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32

$$\begin{array}{ccccc} \bullet & & \bullet & & \bullet \\ \bullet & & \bullet & & \bullet \\ & & | & & \\ \bullet & & \bullet & & \bullet \\ \bullet & & \bullet & & \bullet \end{array}$$

10	10	10	10	10
10	10	10	10	10

ASTP-TIME LINE (POST-MISSION)

PAGE 128

1

2

ATS 658-0540
=====

4

DUMP
EVENT
HBR -----

LBR

204:17:30 35 40 45 50 55 204:18:00
197:30

1

ATS 658-0540
=====

VAN 661-0574
=====

4

DUMP M(80) M(80)
EVENT
HBR -----

LBR

204:18:00 05 10 15 20 25 204:18:30
198:00

1

ATS 666-0541
=====

GDS 662-0357
=====

MAD

M(80) M(80)
DUMP
EVENT
HBR -----

LBR

204:18:30 35 40 45 50 55 204:19:00
198:30

204:17:30

198:40 CTE

204:19:00

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO:35

GMT DAY NO:204

PAGE:129A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:

541	MAD	278	19:00:00	19:01:35	H	R/T	
-----	-----	-----	----------	----------	---	-----	--

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541	ATS	277	19:03:44	19:05:26	H	R/T	
-----	-----	-----	----------	----------	---	-----	--

:	:	:	:
---	---	---	---

541	ATS	277	19:07:37	19:30:58	H	R/T	
-----	-----	-----	----------	----------	---	-----	--

543	ATS	288	19:31:22	19:42:58	L	D/T	HAS 38 SEC GAP
-----	-----	-----	----------	----------	---	-----	----------------

574	VAN	289	19:43:01	19:50:44	H	R/T	
-----	-----	-----	----------	----------	---	-----	--

543	ATS	290	19:46:06	19:55:20	H	D/T	
-----	-----	-----	----------	----------	---	-----	--

543	ATS	288	19:55:56	20:07:53	L	D/T	
-----	-----	-----	----------	----------	---	-----	--

357	GDS	287	20:07:54	20:11:05	H	R/T	
-----	-----	-----	----------	----------	---	-----	--

543	ATS	288	20:11:10	20:19:49	L	D/T	
-----	-----	-----	----------	----------	---	-----	--

542	ATS	291	20:20:12	20:30:00	H	R/T	(CONT. ON 130A)
-----	-----	-----	----------	----------	---	-----	-----------------

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:	:	:	:
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:	:	:	:
---	---	---	---

ASTP-TIME LINE (POST-MISSION)

PAGE 129

1

MAD =====
666-0541

ATS =====

4

DUMP
EVENT
HBR -----

LBR

+++++
204:19:00 05 10 15 20 25 204:19:30
199:00

1

666-0541

ATS =====

787-0574

VAN

=====

4

M(81)

M(81)

DUMP
EVENT-
HBR --

=====

LBR

+++++
204:19:30 35 40 45 50 55 204:20:00
199:30

1

ATS

759-0542

668-0357

GDS

=====

MAD

M(81)

M(81)

=====

DUMP
EVENT
HBR

=====

ΔREV 123

HBR

LBR

+++++
204:20:00 05 10 15 20 25 204:20:30
200:00

204:19:00

200:10 CTE

204:20:30

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO: 35/36

GMT DAY NO: 204

PAGE: 1300

SITE	DATA	GMT	GMT	BIT	R/T	REMARKS:
TAPE	REQ	FROM	TO		OR	
NO.	NO.	HR:MN:SEC	HR:MN:SEC	RATE	D/T	

542	ATS	291	20:30:00	20:53:33	H	R/T
543	ATS	288	20:53:48	21:11:26	L	D/T
483	ORR	292	21:11:26	21:14:23	H	R/T
543	ATS	288	21:14:30	21:29:13	L	D/T
415	HAW	293	21:29:16	21:35:17	H	R/T

BLOCK NO: 36

[illegible]

ASTP-TIME LINE (POST-MISSION)

PAGE 130

1

MAD =====
759-0542

ATS =====

4

DUMP M(81)
EVENT
HBR

LBR
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
204:20:30 35 40 45 50 55 204:21:00
200:30

1

HAW 672-0415
ORR 671-0483
=====

4

DUMP M(81) M(81)
EVENT
HBR

LBR
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
204:21:00 05 10 15 20 25 204:21:30
201:00

1

BDA 674-0469
ATS =====
677-0543
HAW 672-0415
=====

DUMP M(81)
EVENT
HBR *BLOCK 36 ΔREV 124

LBR
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
204:21:30 35 40 45 50 55 204:22:00
201:30

204:20:30

201:40 CTE

204:22:00

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO: 36

GMT DAY NO:204

PAGE: 131A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:
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543	ATS	290	22:00:00	22:06:39	H	R/T
-----	-----	-----	----------	----------	---	-----

502	ACN	571	22:08:21	22:13:32	H	R/T
-----	-----	-----	----------	----------	---	-----

543	OTS	280	22-18-77	22-25-17	U	24T	
-----	-----	-----	----------	----------	---	-----	--

513	ATG	290	22-19-33	22-29-17	H	R21
513	ATG	290	22-25-33	23-23-34	L	R21

512	H13	984	22:28:39	23:23:34	L	071
513	838	345	03:03:30	05:00:01	N	071

473	BDH	575	23:23:39	23:29:36	H	R/T
-----	-----	-----	----------	----------	---	-----

[illegible]

ASTP-TIME LINE (POST-MISSION)

PAGE 131

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1
ATS 677-0543
=====
ACN 676-0502
=====
4
DUMP Δ M(81) DUMP M(82)
EVENT
HBR -----
LBR -----
204:22:00 05 10 15 20 25 204:22:30
202:00

```

```

1
2
3
4
M(82)
DUMP
EVENT
HBR
LBR -----
204:22:30 35 40 45 50 55 204:23:00
202:30

```

```

1
MIL 789-0421
=====
BDA 760-0473
=====
ATS 680-0544
=====
M(82)
DUMP
EVENT ΔREV 125
HBR :
LBR -----
204:23:00 05 10 15 20 25 204:23:30
203:00

```

204:22:00

203:10 CTE

204:23:30

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO:36

GMT DAY NO:204/205

PAGE:132A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:
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544	ATS	576	23:30:44	00:20:05	H	R/T	
-----	-----	-----	----------	----------	---	-----	--

512	ATS	584	00:20:18	00:23:11	L	D/T	
-----	-----	-----	----------	----------	---	-----	--

480	GWM	578	00:23:14	00:27:49	H	R/T	
-----	-----	-----	----------	----------	---	-----	--

480	GWM	579	00:28:12	00:28:31	L	R/T	
-----	-----	-----	----------	----------	---	-----	--

480	GWM	578	00:28:31	00:30:31	H	R/T	
-----	-----	-----	----------	----------	---	-----	--

512	ATS	585	00:28:38	00:34:48	H	D/T	
-----	-----	-----	----------	----------	---	-----	--

512	ATS	584	00:35:10	00:53:49	L	D/T	
-----	-----	-----	----------	----------	---	-----	--

355	ROS	54	00:53:56	00:56:40	H	R/T	
-----	-----	----	----------	----------	---	-----	--

422	MIL	581	00:54:02	01:00:00	H	R/T	(CONT. ON 133A)
-----	-----	-----	----------	----------	---	-----	-----------------

			:	:			
--	--	--	---	---	--	--	--

			:	:			
--	--	--	---	---	--	--	--

			:	:			
--	--	--	---	---	--	--	--

			:	:			
--	--	--	---	---	--	--	--

			:	:			
--	--	--	---	---	--	--	--

ASTP-TIME LINE (POST-MISSION)

PAGE 132

1
2
ACN 679-0502
ATS 680-0544
DUMP
EVENT
HBR
LBR
204:23:30 35 40 45 50 55 205:00:00
203:30

1
ATS 680-0544
GWM 682-0480
4 M(82) M(82)
DUMP
EVENT
HBR
LBR
205:00:00 05 10 15 20 25 205:00:30
682-0480 204:00
GWM
BDA 685-0474
MIL 684-0422
ROS 683-0355
DUMP M(82)
EVENT
HBR
LBR
205:00:30 35 40 45 50 55 205:01:00
204:30

204:23:30

204:40 CTE

205:01:00

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO: 36

GMT DAY NO:205

PAGE: 133A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MM:SEC	GMT TO HR:MM:SEC	BIT RATE	R/T OR D/T	REMARKS:
---------------------	------	--------------------	--------------------------	------------------------	-------------	------------------	----------

422	MIL	581	01:00:00	01:00:09	H	R/T
-----	-----	-----	----------	----------	---	-----

474	BDA	583	01:00:12	01:00:22	L	R/T
-----	-----	-----	----------	----------	---	-----

512	ATS	584	01:00:20	01:05:25	L	D/T
-----	-----	-----	----------	----------	---	-----

512	ATS	585	01:05:29	01:15:29	H	R/T
-----	-----	-----	----------	----------	---	-----

512	ATS	585	01:26:30	01:57:43	H	R/T
-----	-----	-----	----------	----------	---	-----

582	QUI	589	01:58:05	02:21:38	L	D/T
-----	-----	-----	----------	----------	---	-----

357	GDS	587	02:21:40	02:24:54	H	R/T
-----	-----	-----	----------	----------	---	-----

582	QUI	589	02:25:02	02:30:00	L	D/T	(CONT. ON 134A)
-----	-----	-----	----------	----------	---	-----	-----------------

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----

1
MIL 684-0422
===
ATS 686-0512
=====

685-0474
BDA ===
M(82)
DUMP M(82) DUMP
EVENT
HBR -

LBR

+++++
205:01:00 05 10 15 20 25 205:01:30
205:00

1
2
ATS 686-0512
=====

4
DUMP QUI
EVENT
HBR -----

LBR

+++++
205:01:30 35 40 45 50 55 205:02:00
205:30

1
2
GDS 688-0357
=====

4
DUMP QUI QUI
EVENT
HBR -----

LBR

+++++
205:02:00 05 10 15 20 25 205:02:30
206:00

205:01:00

206:10 CTE

205:02:30

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO: 36

GMT DAY NO:205

PAGE: 134A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MM:SEC	GMT TO HR:MM:SEC	BIT RATE	R/T OR D/T	REMARKS:
---------------------	------	--------------------	--------------------------	------------------------	-------------	------------------	----------

```

*****

```

582	QUI	589	02:30:00	02:33:27	L	D/T
-----	-----	-----	----------	----------	---	-----

582	QUI	591	02:33:33	02:38:17	H	R/T
-----	-----	-----	----------	----------	---	-----

582	QUI	590	02:38:34	02:38:55	L	R/T	POOR
-----	-----	-----	----------	----------	---	-----	------

515	ATS	592	02:38:53	02:43:16	L	D/T
-----	-----	-----	----------	----------	---	-----

513	ATS	593	02:43:12	02:43:44	L	R/T
-----	-----	-----	----------	----------	---	-----

513	ATS	594	02:43:47	03:34:05	H	R/T
-----	-----	-----	----------	----------	---	-----

513	ATS	593	03:34:09	03:34:23	L	R/T
-----	-----	-----	----------	----------	---	-----

481	GWM	595	03:34:20	04:00:00	L	D/T	(CONT. ON 135A)
-----	-----	-----	----------	----------	---	-----	-----------------

ASTP-TIME LINE (POST-MISSION):

PAGE 134

```

1
QUI      689-0582D
=====
ATS      690-0513
=====

4
QUI      M(83)
DUMP     M(83)
EVENT    M(83)
HBR      M(83)

LBR      -----
+++++
205:02:30 35 40 45 50 55 205:03:00
206:30

1
2
ATS      690-0513
=====

4
DUMP
EVENT
HBR      -----

LBR      -----
+++++
205:03:00 05 10 15 20 25 205:03:30
207:00

1
GDS      692-0357
ATS      690-0513
=====

4
GWM
DUMP     GWM
EVENT    GWM
HBR      -----

LBR      -----
+++++
205:03:30 35 40 45 50 55 205:04:00
207:30

205:02:30                207:40 CTE                205:04:00
  
```

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO: 36/37

GMT DAY NO:205

PAGE: 135A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:
---------------------	------	--------------------	--------------------------	------------------------	-------------	------------------	----------

481	GWM	595	04:00:00	04:02:14	L	D/T
-----	-----	-----	----------	----------	---	-----

515	ATS	592	04:01:47	04:12:58	L	D/T
-----	-----	-----	----------	----------	---	-----

471	AGO	596	04:12:30	04:13:03	L	R/T
-----	-----	-----	----------	----------	---	-----

471	AGO	597	04:13:04	04:18:32	H	R/T
-----	-----	-----	----------	----------	---	-----

BLOCK NO: 37

515	ATS	603	04:16:54	04:18:28	H	D/T
-----	-----	-----	----------	----------	---	-----

514	ATS	599	04:17:54	05:07:10	H	R/T	HAS 10 SEC GAP
-----	-----	-----	----------	----------	---	-----	----------------

515	ATS	592	05:07:38	05:10:39	L	D/T
-----	-----	-----	----------	----------	---	-----

Age Group	No answer	No	Yes	Probably yes	Probably no
18-24	10	45	40	5	0
25-34	10	45	40	5	0
35-44	10	45	40	5	0
45-54	10	45	40	5	0
55-64	10	45	40	5	0

ASTP-TIME LINE (POST-MISSION)

PAGE 135

1

AG0

693-0471

=====

ATS

694-0514

=====

4

DUMP GWM M(83)

EVENT *****

HBR : AREV 128

M(83)

* BLOCK 37

LBR

+++++

205:04:00 05 10 15 20 25 205:04:30

208:00

1

2

ATS 694-0514

=====

4

DUMP

EVENT

HBR -----

LBR

+++++

205:04:30 35 40 45 50 55 205:05:00

208:30

1

2

3

ATS 694-0514

=====

DUMP

EVENT

HBR -----

M(83)

LBR

+++++

205:05:00 05 10 15 20 25 205:05:30

209:00

205:04:00

209:10 CTE

205:05:30

1
2
3
4

DUMP
EVENT
HBR

VAN
ΔREV 129
:
:

LBR

205:05:30 35 40 45 50 55 205:06:00
209:30

1
2
3
4

DUMP
EVENT
HBR

VAN GWM
ΔREV 129

LBR

205:06:00 05 10 15 20 25 205:06:30
210:00

1
2
HAW

700-0414
=====

4

DUMP
EVENT
HBR

GWM
ΔREV 129

LBR

205:06:30 35 40 45 50 55 205:07:00
210:30

205:05:30

210:40 CTE

205:07:00

ASTP-TIME LINE (POST-MISSION)

PAGE 137

1

2

ATS 701-0515
=====

4

DUMP GWM VAN
EVENT
HBR
ΔREV 130
:
:
LBR

205:07:00 05 10 15 20 25 205:07:30
211:00

1

2

701-0515
ATS =====

4

DUMP Δ M(83) DUMP
EVENT
HBR --

LBR
205:07:30 35 40 45 50 55 205:08:00
211:30

1

2

3

4

DUMP
EVENT
HBR

LBR
205:08:00 05 10 15 20 25 205:08:30
212:00

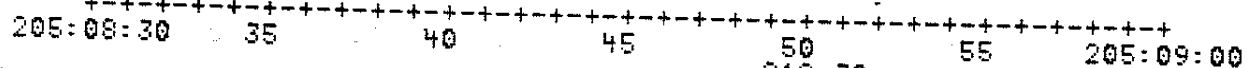
205:07:00 212:10 CTE 205:08:30

- 1
- 2
- 3
- 4

DUMP
EVENT
HBR

ΔREV 131

LBR



1

2

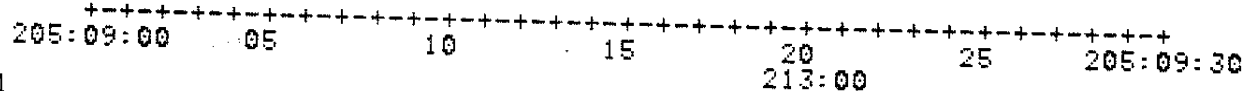
ACN

705-0503
=====

4

DUMP
EVENT
HBR

LBR



1

2

GWM

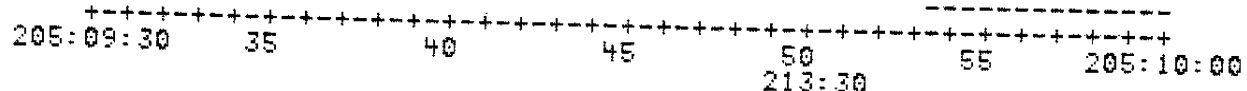
707-0481D
=====

4

DUMP
EVENT
HBR

VAN
=====

LBR



205:08:30

213:40 CTE

205:10:00

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO: 37/38

GMT DAY NO: 205

PAGE: 139A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:
---------------------	------	--------------------	--------------------------	------------------------	-------------	------------------	----------

575	VAN	600	10:00:00	10:03:08	L	D/T	
575	VAN	609	10:03:56	10:04:10	L	R/T	
575	VAN	610	10:04:10	10:08:52	H	R/T	
575	VAN	609	10:08:59	10:10:02	L	R/T	HAS 12 SEC GAP
521	ATS	611	10:09:02	10:18:07	L	D/T	
518	MAD	612	10:13:20	10:42:47	L	D/T	
504	ACN	613	10:42:21	10:42:58	L	R/T	
504	ACN	614	10:42:59	10:43:45	H	R/T	
504	ACN	613	10:44:07	10:45:50	L	R/T	
			: :	: :			
518	MAD	615	10:53:07	10:54:08	L	R/T	HAS 5 SEC GAP
518	MAD	616	10:54:09	10:55:17	H	R/T	

BLOCK NO: 38

518	MAD	615	10:55:19	10:55:41	L	R/T	
482	GWM	617	10:55:54	11:22:06	L	D/T	
482	GWM	619	11:22:08	11:27:58	H	R/T	
			: :	: :			

1

2

AGO

709-0471

=====

VAN

708-0575D

=====

VAN

DUMP

EVENT

HBR

M(86)

M(84)

AREV 132

LBR

205:10:00

05

10

15

20

25

205:10:30

1

MAD

710-0518

=====

ACN

711-0504

=====

4

DUMP

EVENT

HBR

M(84)

M(84) DUMP

GWM

* BLOCK 38

LBR

205:10:30

35

40

45

50

55

205:11:00

1

2

GWM

714-0482D

=====

4

DUMP

EVENT

HBR

GWM

LBR

205:11:00

05

10

15

20

25

205:11:30

205:10:00

214:10 CTE

205:11:30

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO: 38

GMT DAY NO:205

PAGE: 140A

SITE TAPE NO.	SITE	DATA REQ NO.	GMT FROM HR:MN:SEC	GMT TO HR:MN:SEC	BIT RATE	R/T OR D/T	REMARKS:
---------------------	------	--------------------	--------------------------	------------------------	-------------	------------------	----------

```

graph LR
    subgraph Pretest
        direction TB
        P1[Pretest questions] --> P2[Pretest results]
    end
    subgraph Main_test [Main test]
        direction TB
        M1[Main test questions] --> M2[Main test results]
        M2 --> M1
    end
    subgraph Posttest
        direction TB
        O1[Posttest questions] --> O2[Posttest results]
    end
    P2 --> M1
    M2 --> O1
    O2 --> C[Conclusion]
  
```

576	VAN	621	11:35:07	11:41:38	H	R/T	HAS TWO, 4 SEC GAPS
-----	-----	-----	----------	----------	---	-----	---------------------

576	VAN	620	11:41:41	11:42:43	L	R/T
-----	-----	-----	----------	----------	---	-----

520	MAD	622	11:42:43	12:22:54	L	D/T
-----	-----	-----	----------	----------	---	-----

520	MAD	623	12:22:26	12:23:01	L	R/T	
-----	-----	-----	----------	----------	---	-----	--

520	MAD	624	12:23:01	12:28:46	H	R/T
-----	-----	-----	----------	----------	---	-----

520	MAD	623	12:28:51	12:29:57	L	R/T

521	ATS	611	12:30:44	13:00:00	L	D/T	(CONT. ON 141A)

Age Group	Male (%)	Female (%)
18-29	~85	~85
30-39	~85	~85
40-49	~85	~85
50-59	~85	~85
60+	~85	~85

1

2

VAN 419-0576D
=====

AGO

715-0472D
=====DUMP
EVENT
HBR

M(85)

ΔREV 133

LBR

```

+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+
205:11:30 35 40 45 50 55 205:12:00
215:30

```

1

MAD

710-0520

715-0472D
=====

AGO

4

DUMP M(85)

Δ M(85) DUMP

EVENT
HBR

LBR

```

+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+
205:12:00 05 10 15 20 25 205:12:30
216:00

```

1

2

3

4

DUMP M(86)

EVENT
HBR

LBR

```

+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+
205:12:30 35 40 45 50 55 205:13:00
216:30

```

205:11:30

216:40 CTE

205:13:00


```

1
2
   719-0545D
ORR  =====
4
   M(86)                M(86)
DUMP  M(86)              M(86)
EVENT M(86)              M(86)
HBR   -----
LBR   -----
      +-----+
205:13:00  05      10      15      20      25      205:13:30
                                   217:00

```

```

1
   720-0583D
QUI  =====
   721-0521
ATS  =====
MAD  =====
   M(86)
DUMP  M(86)              Δ M(86) DUMP
EVENT ΔREV 134
HBR   :
      :
LBR   -----
      +-----+
205:13:30  35      40      45      50      55      205:14:00
                                   217:30

```

```

1
MAD  ===
   721-0521
ATS  =====
4
DUMP
EVENT
HBR   -----
LBR   -----
      +-----+
205:14:00  05      10      15      20      25      205:14:30
                                   218:00

```

205:13:00 218:10 CTE 205:14:30

1

2.

721-0521

4

EDH

+ - + - + - + - + - +
14:30 35

725-0584
=====

727-04750

726-0485

728-0506

EDR

BDA

15:00 05

1

728-0506

ATS =====

4

DUMP
EVENT
HDR

15:30 35

205:16:00

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO: 39

GMT DAY NO:205

PAGE: 143A

| SITE
TAPE
NO. | SITE | DATA
REQ
NO. | GMT
FROM
HR:MM:SEC | GMT
TO
HR:MM:SEC | BIT
RATE | R/T
OR
D/T | REMARKS: |
|---------------------|------|--------------------|--------------------------|------------------------|-------------|------------------|----------|
| ***** | | | | | | | |

| | | | | | | |
|-----|-----|-----|----------|----------|---|-----|
| 506 | ATS | 483 | 16:00:00 | 16:04:10 | H | R/T |
|-----|-----|-----|----------|----------|---|-----|

| | | | | | | |
|-----|-----|-----|----------|----------|---|-----|
| 507 | MAD | 771 | 16:38:40 | 16:41:59 | H | D/T |
|-----|-----|-----|----------|----------|---|-----|

| | | | | | | |
|-----|-----|-----|----------|----------|---|-----|
| 577 | VAN | 485 | 16:42:00 | 16:46:04 | H | D/T |
|-----|-----|-----|----------|----------|---|-----|

| | | | | | | |
|-----|-----|-----|----------|----------|---|-----|
| 485 | MIL | 486 | 16:45:26 | 16:52:17 | H | R/T |
|-----|-----|-----|----------|----------|---|-----|

| | | | | | | | |
|-----|-----|-----|----------|----------|---|-----|----------------------------|
| 476 | BDA | 487 | 16:49:10 | 16:55:14 | H | R/T | POOR (HAS 20 & 16 SEC GAP) |
|-----|-----|-----|----------|----------|---|-----|----------------------------|

| | | | | | | | |
|-----|-----|-----|----------|----------|---|-----|----------------|
| 507 | ATS | 484 | 16:55:04 | 17:30:00 | H | R/T | (CONT ON 1440) |
|-----|-----|-----|----------|----------|---|-----|----------------|

| | | | | | | | |
|-----|------|-----|----------|----------|---|-----|-----------------|
| 001 | 1115 | 101 | 13:55:04 | 17:50:00 | H | R71 | (CONT. ON 177H) |
| | | | : | : | | | |

1

2

3

ATS 728-0506
=====

DUMP M(87)
EVENT
HBR -----

LBR

+++++
205:16:00 05 10 15 20 25 205:16:30

ATS 220:00 736-0507
=====

BDA 735-0476
=====

ROS 734-0356
=====

MIL 733-0485
=====

DUMP M(87) VAN
EVENT
HBR -----

AREV 136

LBR

+++++
205:16:30 35 40 45 50 55 205:17:00
220:30

1

2

MAD
=====

ATS 736-0507
=====

DUMP Δ M(87) DUMP
EVENT
HBR -----

LBR
+++++
205:17:00 05 10 15 20 25 205:17:30
221:00

205:16:00

221:10 CTE

205:17:30

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO: 39

GMT DAY NO:205

PAGE: 144A

| SITE
TAPE
NO. | SITE | DATA
REQ
NO. | GMT
FROM
HR:MN:SEC | GMT
TO
HR:MN:SEC | BIT
RATE | R/T
OR
D/T | REMARKS: |
|---------------------|------|--------------------|--------------------------|------------------------|-------------|------------------|----------|
| ***** | | | | | | | |

| | | | | | | |
|-----|-----|-----|----------|----------|---|-----|
| 507 | ATS | 484 | 17:30:00 | 17:44:01 | H | R/T |
|-----|-----|-----|----------|----------|---|-----|

| | | | | | | |
|-----|-----|-----|----------|----------|---|-----|
| 577 | VAN | 489 | 17:50:14 | 17:55:39 | H | R/T |
|-----|-----|-----|----------|----------|---|-----|

| | | | |
|---|---|---|---|
| 1 | 2 | 3 | 4 |
| 5 | 6 | 7 | 8 |

| | | | | | | | |
|-----|-----|-----|--------|--------|---|-----|---------------|
| 423 | GDS | 490 | 18:14: | 18:17: | H | R/T | NOT_PROCESSED |
|-----|-----|-----|--------|--------|---|-----|---------------|

2 4 | 6 8
 2 4 | 6 8

| | | | | | | | |
|-----|-----|-----|--------|--------|---|-----|---------------|
| 509 | ATS | 491 | 18:29: | 18:34: | H | R/T | NOT PROCESSED |
|-----|-----|-----|--------|--------|---|-----|---------------|

| | | | | | | | |
|-----|-----|-----|--------|--------|---|-----|---------------|
| 509 | MAD | 492 | 18:34: | 18:41: | H | R/T | NOT PROCESSED |
|-----|-----|-----|--------|--------|---|-----|---------------|

| | | | | | | | |
|-----|-----|-----|--------|--------|---|-----|---------------|
| 509 | ATS | 491 | 18:41: | 19:00: | H | R/T | NOT PROCESSED |
|-----|-----|-----|--------|--------|---|-----|---------------|

Figure 1

ASTP-TIME LINE (POST-MISSION)

PAGE 144

1

2

VAN

739-0577

736-0507

=====

ATS

=====

DUMP

EVENT

HBR

LBR

205:17:30 35 40 45 50 55 205:18:00

1

221:30

ATS

742-0509

GDS

740-0423

=====

4

DUMP

EVENT

HBR

M(88)

=====

ΔREV 137

LBR

205:18:00 05 10 15 20 25 205:18:30

1

222:00

MAD

742-0509

ATS

=====

4

DUMP

EVENT

HBR

Δ M(88) DUMP

LBR

205:18:30 35 40 45 50 55 205:19:00

205:17:30

222:40 CTE

205:19:00

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO:39

GMT DAY NO:205

PAGE:145A

| SITE
TAPE
NO. | SITE | DATA
REQ
NO. | GMT
FROM
HR:MN:SEC | GMT
TO
HR:MN:SEC | BIT
RATE | R/T
OR
D/T | REMARKS: |
|---------------------|------|--------------------|--------------------------|------------------------|-------------|------------------|----------|
|---------------------|------|--------------------|--------------------------|------------------------|-------------|------------------|----------|

| | | | | | | | |
|-----|-----|-----|--------|--------|---|-----|---------------|
| 509 | ATS | 491 | 19:00: | 19:14: | H | R/T | NOT PROCESSED |
|-----|-----|-----|--------|--------|---|-----|---------------|

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| 546 | ORR | 493 | 19:19: | 19:21: | H | R/T | NOT PROCESSED |
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| 578 | VAN | 494 | 19:21: | 19:28: | H | R/T | NOT PROCESSED |
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| 423 | GDS | 495 | 19:46: | 19:50: | H | R/T | NOT PROCESSED |
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| 511 | ATS | 496 | 20:00: | 20:30: | H | R/T | NOT PROCESSED |
|-----|-----|-----|--------|--------|---|-----|---------------|

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ASTP-TIME LINE (POST-MISSION)

PAGE 145

```

1
ORR                                     161-0546
                                     =====
                                     587-0578
                                     =====
VAN    742-0509
ATS    =====
DUMP
EVENT
HBR    -----
LBR    -----
      +-----+-----+-----+-----+-----+-----+
      205:19:00   05   10   15   20   25   205:19:30
                                     223:00
  
```

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1
2
ATS                                     748-0511
                                     =====
GDS    746-0423
                                     =====
DUMP
EVENT
HBR    -----
LBR    -----
      +-----+-----+-----+-----+-----+-----+
      205:19:30   35   40   45   50   55   205:20:00
                                     223:30
  
```

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1
MAD                                     =====
      748-0511
ATSF  =====
4
DUMP
EVENT
HBR    -----
LBR    -----
      +-----+-----+-----+-----+-----+-----+
      205:20:00   05   10   15   20   25   205:20:30
                                     224:00
  
```

205:19:00

224:10 CTE

205:20:30

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO:39

GMT DAY NO:205

PAGE:146A

| SITE
TAPE
NO. | SITE | DATA
REQ
NO. | GMT
FROM
HR:MN:SEC | GMT
TO
HR:MN:SEC | BIT
RATE | R/T
OR
D/T | REMARKS: |
|---------------------|------|--------------------|--------------------------|------------------------|-------------|------------------|----------|
|---------------------|------|--------------------|--------------------------|------------------------|-------------|------------------|----------|

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|-----|-----|-----|--------|--------|---|-----|---------------|
| 511 | ATS | 496 | 20:30: | 20:44: | H | R/T | NOT PROCESSED |
|-----|-----|-----|--------|--------|---|-----|---------------|

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| 546 | ORR | 497 | 20:50: | 20:54: | H | R/T | NOT PROCESSED |
|-----|-----|-----|--------|--------|---|-----|---------------|

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|-----|-----|-----|--------|--------|---|-----|---------------|
| 416 | DRR | 498 | 21:05: | 21:18: | H | D/T | NOT PROCESSED |
|-----|-----|-----|--------|--------|---|-----|---------------|

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2

ORR

750-0546

748-0511

ATS

DUMP

EVENT

HBR

LBR

205:20:30 35 40 45 50 55 205:21:00
224:30

1

2

HAW

788-0404

4

DUMP

EVENT

HBR

DRR ONBOARD RECORDER

ASPLASHDOWN 205:21:18:25

LBR

205:21:00 05 10 15 20 25 205:21:30
225:00

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2

3

4

DUMP

EVENT

HBR

LBR

205:21:30 35 40 45 50 55 205:22:00
225:30

205:20:30

225:40 CTE

205:22:00

SECTION 2.0

EXPERIMENT...MA-048

X/RAY (4KBS)

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO:04

GMT DAY NO:197 (10MS TIME ERROR) PAGE:148A

| SITE
TAPE
NO. | SITE | DATA
REQ
NO. | GMT
FROM
HR:MN:SEC | GMT
TO
HR:MN:SEC | BIT
RATE | R/T
OR
D/T | REMARKS: |
|---------------------|------|--------------------|--------------------------|------------------------|-------------|------------------|----------|
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|-----|---------|------|----------|----------|---|-----|--------------------|
| 092 | ATS/MAD | 4000 | 22:52:25 | 23:01:14 | 4 | R/T | ON AT 197:22:51:00 |
|-----|---------|------|----------|----------|---|-----|--------------------|

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|-----|---------|------|----------|----------|---|-----|--|
| 093 | ATS/MAD | 4001 | 22:59:59 | 23:10:54 | 4 | R/T | |
|-----|---------|------|----------|----------|---|-----|--|

| | | | | | | | |
|-----|---------|------|----------|----------|---|-----|------|
| 093 | ATS/MAD | 4001 | 23:11:31 | 23:13:58 | 4 | R/T | FAIR |
|-----|---------|------|----------|----------|---|-----|------|

| | | | | | | | |
|-----|---------|-------|----------|----------|---|-----|-------------------|
| 598 | ATS/BUI | AS150 | 22:52:24 | 23:16:46 | 4 | R/T | (BETTER THAN MAD) |
|-----|---------|-------|----------|----------|---|-----|-------------------|

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| | | | : | : | | | OFF AT 197:23:17:00 |
|--|--|--|---|---|--|--|---------------------|

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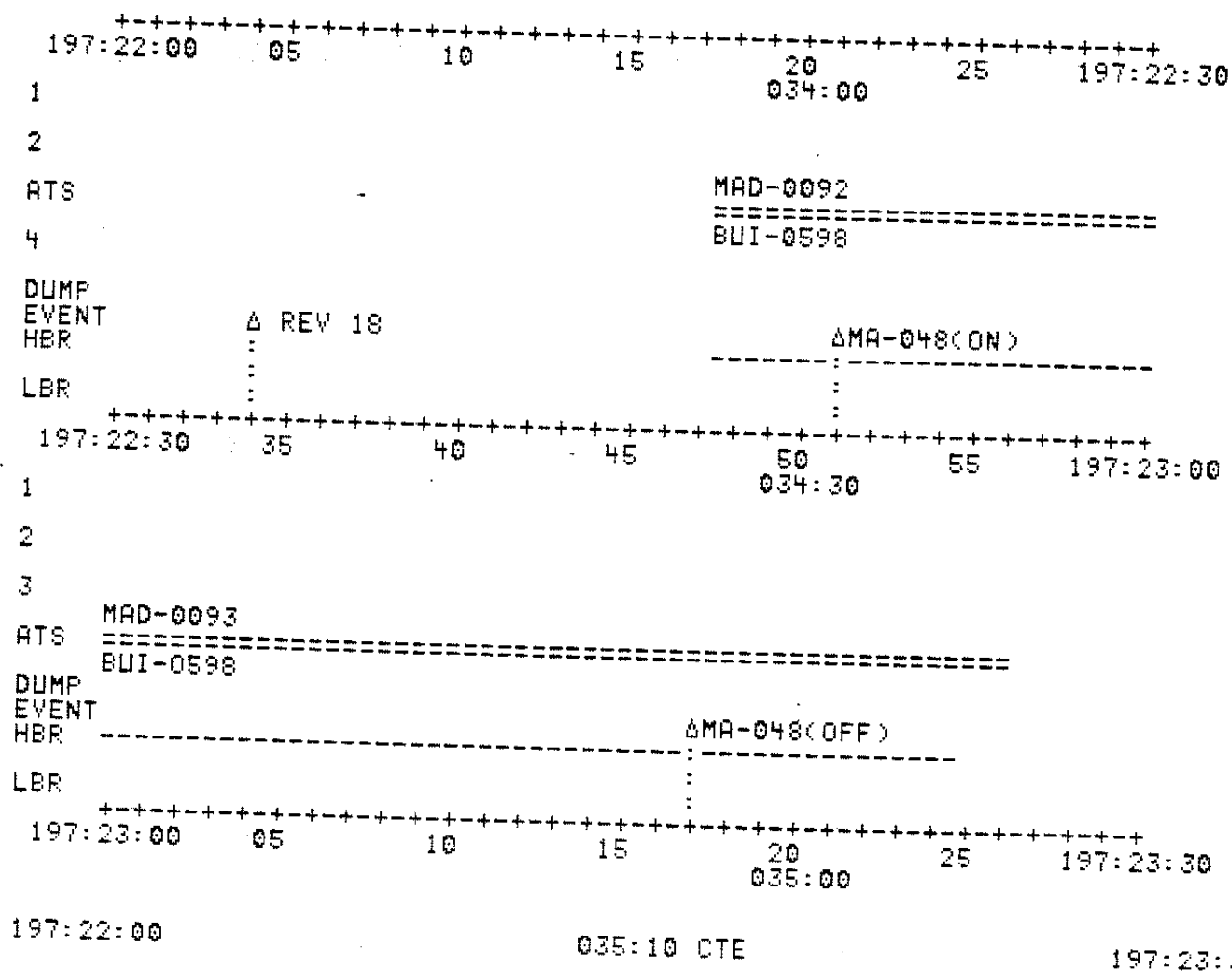
| | | | | | | | |
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ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO: 18

GMT DAY NO:201 (48MS TIME ERROR)

PAGE: 149A

| SITE
TAPE
NO. | SITE | DATA
REQ
NO. | GMT
FROM
HR:MN:SEC | GMT
TO
HR:MN:SEC | BIT
RATE | R/T
OR
D/T | REMARKS: |
|---------------------|------|--------------------|--------------------------|------------------------|-------------|------------------|----------|
|---------------------|------|--------------------|--------------------------|------------------------|-------------|------------------|----------|

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|-----|-----|------|--------|--------|---|-----|--|
| 199 | BDA | 4003 | 00:43: | 00:47: | 4 | R/T | ON AT 201:00:25:00
NO 4KBS DATA ON TAPE |
|-----|-----|------|--------|--------|---|-----|--|

| | | | | | | |
|-----|---------|-------|----------|----------|---|-----|
| 311 | ATS/MAD | 4002R | 00:47:34 | 00:55:02 | 4 | D/T |
|-----|---------|-------|----------|----------|---|-----|

| | | | | | | | |
|-----|---------|------|----------|----------|---|-----|-----------------------|
| 600 | ATS/BUI | 4050 | 00:47:34 | 00:55:02 | 4 | D/T | ABOUT THE SAME AS MAD |
|-----|---------|------|----------|----------|---|-----|-----------------------|

OFF AT 201:00:56:00

[illegible]

| Variable | Mean | Standard Deviation | Minimum | Maximum |
|--------------------|------|--------------------|---------|---------|
| Age | 3.5 | 1.2 | 1 | 6 |
| Gender | 1.5 | 0.5 | 1 | 2 |
| Marital Status | 1.5 | 0.5 | 1 | 2 |
| Education | 3.5 | 1.2 | 1 | 6 |
| Income | 3.5 | 1.2 | 1 | 6 |
| Health | 3.5 | 1.2 | 1 | 6 |
| Religion | 1.5 | 0.5 | 1 | 2 |
| Occupation | 3.5 | 1.2 | 1 | 6 |
| Family Size | 3.5 | 1.2 | 1 | 6 |
| Home Ownership | 1.5 | 0.5 | 1 | 2 |
| Auto Ownership | 1.5 | 0.5 | 1 | 2 |
| Travel Frequency | 3.5 | 1.2 | 1 | 6 |
| Spending Habits | 3.5 | 1.2 | 1 | 6 |
| Life Satisfaction | 3.5 | 1.2 | 1 | 6 |
| Overall Well-being | 3.5 | 1.2 | 1 | 6 |

[illegible][illegible]

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|---|---|---|---|---|---|---|---|---|-----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
|---|---|---|---|---|---|---|---|---|-----|

| Category | Value |
|--------------|-------|
| Category 1 | 1 |
| Category 2 | 2 |
| Category 3 | 3 |
| Category 4 | 4 |
| Category 5 | 5 |
| Category 6 | 6 |
| Category 7 | 7 |
| Category 8 | 8 |
| Category 9 | 9 |
| Category 10 | 10 |
| Category 11 | 11 |
| Category 12 | 12 |
| Category 13 | 13 |
| Category 14 | 14 |
| Category 15 | 15 |
| Category 16 | 16 |
| Category 17 | 17 |
| Category 18 | 18 |
| Category 19 | 19 |
| Category 20 | 20 |
| Category 21 | 21 |
| Category 22 | 22 |
| Category 23 | 23 |
| Category 24 | 24 |
| Category 25 | 25 |
| Category 26 | 26 |
| Category 27 | 27 |
| Category 28 | 28 |
| Category 29 | 29 |
| Category 30 | 30 |
| Category 31 | 31 |
| Category 32 | 32 |
| Category 33 | 33 |
| Category 34 | 34 |
| Category 35 | 35 |
| Category 36 | 36 |
| Category 37 | 37 |
| Category 38 | 38 |
| Category 39 | 39 |
| Category 40 | 40 |
| Category 41 | 41 |
| Category 42 | 42 |
| Category 43 | 43 |
| Category 44 | 44 |
| Category 45 | 45 |
| Category 46 | 46 |
| Category 47 | 47 |
| Category 48 | 48 |
| Category 49 | 49 |
| Category 50 | 50 |
| Category 51 | 51 |
| Category 52 | 52 |
| Category 53 | 53 |
| Category 54 | 54 |
| Category 55 | 55 |
| Category 56 | 56 |
| Category 57 | 57 |
| Category 58 | 58 |
| Category 59 | 59 |
| Category 60 | 60 |
| Category 61 | 61 |
| Category 62 | 62 |
| Category 63 | 63 |
| Category 64 | 64 |
| Category 65 | 65 |
| Category 66 | 66 |
| Category 67 | 67 |
| Category 68 | 68 |
| Category 69 | 69 |
| Category 70 | 70 |
| Category 71 | 71 |
| Category 72 | 72 |
| Category 73 | 73 |
| Category 74 | 74 |
| Category 75 | 75 |
| Category 76 | 76 |
| Category 77 | 77 |
| Category 78 | 78 |
| Category 79 | 79 |
| Category 80 | 80 |
| Category 81 | 81 |
| Category 82 | 82 |
| Category 83 | 83 |
| Category 84 | 84 |
| Category 85 | 85 |
| Category 86 | 86 |
| Category 87 | 87 |
| Category 88 | 88 |
| Category 89 | 89 |
| Category 90 | 90 |
| Category 91 | 91 |
| Category 92 | 92 |
| Category 93 | 93 |
| Category 94 | 94 |
| Category 95 | 95 |
| Category 96 | 96 |
| Category 97 | 97 |
| Category 98 | 98 |
| Category 99 | 99 |
| Category 100 | 100 |

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|---|---|---|---|---|---|---|---|---|-----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
|---|---|---|---|---|---|---|---|---|-----|

[illegible][illegible][illegible]

ASTP-TIME LINE (POST-MISSION)

PAGE 149

1
2
3
4

DUMP
EVENT
HBR

*BLOCK 18

LBR

200:23:30 35 40 45 50 55 201:00:00
107:30

1
2
3
4

DUMP
EVENT
HBR

ΔMA-048(ON)

LBR

201:00:00 05 10 15 20 25 201:00:30
108:00

1
2
3

BDA

333-0199

ATS/MAD-0311

DUMP
EVENT
HBR

ΔREV 65

ATS/BUI-0600

ΔMA-048(OFF)

LBR

201:00:30 35 40 45 50 55 201:01:00
108:30

200:23:30

108:40 CTE

201:01:00

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO: 20

GMT DAY NO:201 (48ms TIME ERROR) PAGE:150A

[illegible]

1

ACN

374-0494

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3

4

DUMP

EVENT

HBR

*BLOCK 20

ΔREV 72

ΔMA-048(ON)

LBR

201:11:30 35 40 45 50 55 201:12:00
119:30

1

ATS

MAD-0318

BUI-0601

3

ACN

374-0494

DUMP

EVENT

HBR

LBR

201:12:00 05 10 15 20 25 201:12:30
120:00

1

2

GWM

375-0280

ATS

MAD-0318

BUI-0601

MAD-0319

DUMP

EVENT

HBR

BUI-0602

LBR

201:12:30 35 40 45 50 55 201:13:00
120:30

201:11:30

120:40 CTE

201:13:00

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO:20

GMT DAY NO:201 (48MS TIME ERROR)

PAGE:151A

| SITE
TAPE
NO. | SITE | DATA
REQ
NO. | GMT
FROM
HR:MN:SEC | GMT
TO
HR:MN:SEC | BIT
RATE | R/T
OR
D/T | REMARKS: |
|---------------------|---------|--------------------|--------------------------|------------------------|-------------|------------------|---|
| 319 | ATS/MAD | 4007 | 13:00:00 | 13:13:18 | 4 | D/T | |
| 602 | ATS/BUI | 4051 | 13:00:00 | 13:13:17 | 4 | D/T | SOME BETTER THAN MAD |
| 256 | AGO | 4008 | 13:18: | 13:20: | 4 | R/T | OFF AT 201:13:20:00
NO 4KBS DATA ON TAPE |
| | | | : | : | | | |
| 319 | ATS/MAD | 4009 | 14:00:34 | 14:05:33 | 4 | R/T | ON AT 201:14:00:00
HAS 7 SEC GAP |
| 602 | ATS/BUI | AS152 | 14:00:34 | 14:05:33 | 4 | R/T | ABOUT THE SAME AS MAD |
| 319 | ATS/MAD | 4009 | 14:07:04 | 14:10:42 | 4 | R/T | |
| 602 | ATS/BUI | AS152 | 14:07:04 | 14:10:42 | 4 | R/T | ABOUT THE SAME AS MAD |
| 319 | ATS/MAD | 4009 | 14:11:34 | 14:15:44 | 4 | R/T | |
| 602 | ATS/BUI | AS152 | 14:11:31 | 14:15:44 | 4 | R/T | ABOUT THE SAME AS MAD |
| 319 | ATS/MAD | 4009 | 14:17:22 | 14:17:47 | 4 | R/T | |
| 602 | ATS/BUI | AS152 | 14:17:22 | 14:17:47 | 4 | R/T | ABOUT THE SAME AS MAD |
| 320 | ATS/MAD | 4011 | 14:18:53 | 14:27:53 | 4 | D/T | |
| 603 | ATS/BUI | 4052 | 14:15:11 | 14:27:56 | 4 | D/T | BETTER THAN MAD |
| 374 | ORR | 4010 | 14:27: | 14:29: | 4 | R/T | OFF AT 201:14:29:00
NO 4KBS DATA ON TAPE |

ASTP-TIME LINE (POST-MISSION)

PAGE 151

1

2

ATS

377-0256

AGO

=====

DUMP MAD-0319

EVENT BUI-0602

ΔREV 73 ΔMA-048(OFF)

HBR

LBR

201:13:00 05 10 15 20 25 201:13:30
121:00

1

2

3

4

DUMP

EVENT

HBR

LBR

201:13:30 35 40 45 50 55 201:14:00
121:30

1

2

ORR

381-0374

=====

MAD-0319

ATS

BUI-0602

MAD-0320

DUMP

EVENT ΔMA-048(ON)

BUI-0603

ΔMA-048

HBR

LBR

201:14:00 05 10 15 20 25 201:14:30
122:00

201:13:00

122:10 CTE

201:14:30

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO:21

GMT DAY NO:201 (48MS TIME ERROR)

PAGE:152A

| SITE
TAPE
NO. | SITE | DATA
REQ
NO. | GMT
FROM
HR:MN:SEC | GMT
TO
HR:MN:SEC | BIT
RATE | R/T
OR
D/T | REMARKS: |
|---------------------|------|--------------------|--------------------------|------------------------|-------------|------------------|----------|
|---------------------|------|--------------------|--------------------------|------------------------|-------------|------------------|----------|

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|-----|---------|-------|----------|----------|---|-----|--------------------------------------|
| 320 | ATS/MAD | 4012R | 15:23:51 | 15:53:04 | 4 | R/T | ON AT 201:15:22:00
HAS 13 SEC GAP |
|-----|---------|-------|----------|----------|---|-----|--------------------------------------|

| | | | | | | | |
|-----|---------|-------|----------|----------|---|-----|-----------------|
| 603 | ATS/BUI | AS153 | 15:23:51 | 15:54:16 | 4 | R/T | BETTER THAN MAD |
|-----|---------|-------|----------|----------|---|-----|-----------------|

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|-----|---------|------|----------|----------|---|-----|--|
| 321 | ATS/MAD | 4013 | 15:50:59 | 15:56:52 | 4 | D/T | |
|-----|---------|------|----------|----------|---|-----|--|

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|-----|---------|------|----------|----------|---|-----|-----------------------|
| 604 | ATS/BUI | 4053 | 15:50:59 | 15:56:52 | 4 | D/T | ABOUT THE SAME AS MAD |
|-----|---------|------|----------|----------|---|-----|-----------------------|

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|-----|-----|------|--------|--------|---|-----|----------------------|
| 374 | ORR | 4014 | 15:58: | 16:00: | 4 | R/T | NO 4KBS DATA ON TAPE |
|-----|-----|------|--------|--------|---|-----|----------------------|

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DUMP
EVENT
HBR

ΔREV 74

LBR

201:14:30 35 40 45 50 55 201:15:00
122:30

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3

ATS

MAD-0320

DUMP
EVENT
HBR

BUI-0603

*BLOCK 21

ΔMA-048(ON)

LBR

201:15:00 05 10 15 20 25 201:15:30
123:00

1
2

ORR

386-0374

MAD-0320

ATS

BUI-0603

DUMP
EVENT
HBR

MAD-0321

BUI-0604

LBR

201:15:30 35 40 45 50 55 201:16:00
123:30

201:14:30

123:40 CTE

201:16:00

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO:21

GMT DAY NO:201 (48MS TIME ERROR)

PAGE:153A

| SITE
TAPE
NO. | SITE | DATA
REQ
NO. | GMT
FROM
HR:MN:SEC | GMT
TO
HR:MN:SEC | BIT
RATE | R/T
OR
D/T | REMARKS: |
|---------------------|---------|--------------------|--------------------------|------------------------|-------------|------------------|-----------------------|
| 321 | ATS/MAD | 4013 | 16:01:06 | 16:05:13 | 4 | D/T | |
| 604 | ATS/BUI | 4053 | 16:01:22 | 16:05:13 | 4 | D/T | BETTER THAN MAD |
| 321 | ATS/MAD | 4013 | 16:10:33 | 16:12:12 | 4 | D/T | |
| 604 | ATS/BUI | 4053 | 16:10:33 | 16:12:12 | 4 | D/T | BETTER THAN MAD |
| 408 | MIL | 4038 | 16:12:14 | 16:14:56 | 4 | D/T | |
| 270 | BDA | 4039 | 16:27:57 | 16:31:06 | 4 | D/T | |
| 322 | ATS/MAD | 4021 | 16:30:00 | 16:32:40 | 4 | D/T | |
| 605 | ATS/BUI | 4054 | 16:30:05 | 16:32:40 | 4 | D/T | ABOUT THE SAME AS MAD |
| 405 | MIL | 4016 | 16:34: | 16:37: | 4 | R/T | NO 4KBS DATA ON TAPE |
| 254 | BDA | 4017 | 16:36: | 16:43: | 4 | R/T | NO 4KBS DATA ON TAPE |
| 322 | ATS/MAD | 4021 | 16:42:34 | 16:47:39 | 4 | D/T | |
| 605 | ATS/BUI | 4054 | 16:42:34 | 16:47:39 | 4 | D/T | ABOUT THE SAME AS MAD |
| 321 | MAD | 4018 | 16:50: | 16:55: | 4 | R/T | NO 4KBS DATA ON TAPE |
| 322 | ATS/MAD | 4021 | 16:59:27 | 17:04:08 | 4 | D/T | |
| 605 | ATS/BUI | 4054 | 16:59:27 | 17:04:08 | 4 | D/T | ABOUT THE SAME AS MAD |
| 322 | ATS/MAD | 4021 | 17:09:34 | 17:13:35 | 4 | D/T | |
| 605 | ATS/BUI | 4054 | 17:09:48 | 17:13:35 | 4 | D/T | ABOUT THE SAME AS MAD |
| 321 | ATS/MAD | 4018 | 17:13:42 | 17:14:47 | 4 | R/T | |
| 604 | ATS/BUI | AS154 | 17:13:42 | 17:14:47 | 4 | R/T | BETTER THAN MAD |
| 321 | ATS/MAD | 4018 | 17:18:17 | 17:30:00 | 4 | R/T | |
| 604 | ATS/BUI | AS154 | 17:18:17 | 17:30:00 | 4 | R/T | BETTER THAN MAD |

ASTP-TIME LINE (POST-MISSION)

PAGE 153

1

2

386-0374
ORR =====

QUI

389-0412

MAD-0321
DUMP =====
EVENT BUI-0604
HBR -----

MAD-0321 MIL
=====

==
BDA
=====

LBR

201:16:00 05 10 15 20 25 201:16:30
390-0405 124:00

MIL

BDA

392-0254
=====

MAD

396-0321
=====

4

BDA MAD-0322
DUMP =====
EVENT BUI-0605
HBR -----

MAD-0322
=====

MAD-0322
=====

LBR

ΔREV 75

201:16:30 35 40 45 50 55 201:17:00
124:30

1

2

3

ATS

393-0321

MAD-0322
DUMP =====
EVENT BUI-0605
HBR -----

MAD-0322
=====

Δ MAD/BUI DATA DUMP

LBR

201:17:00 05 10 15 20 25 201:17:30
125:00

201:16:00

125:10 CTE

201:17:30

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO: 21

GMT DAY NO:201 (48ms TIME ERROR) PAGE:154A

[illegible]

1

2

ATS MAD-0321
 BUI-0604

4

DUMP
 EVENT
 HBR

LBR

201:17:30 35 40 45 50 55 201:18:00
 400-04080 125:30

MIL

BDA

MAD

ATS

DUMP
 EVENT
 HBR

LBR

201:18:00 05 10 15 20 25 201:18:30
 126:00

1

2

3

ATS MAD-0322
 BUI-0605

DUMP
 EVENT
 HBR

LBR

201:18:30 35 40 45 50 55 201:19:00
 126:30

201:17:30

126:40 CTE

201:19:00

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO:21 GMT DAY NO:201 (48MS TIME ERROR) PAGE:155A

| SITE
TAPE
NO. | SITE | DATA
REQ
NO. | GMT
FROM
HR:MN:SEC | GMT
TO
HR:MN:SEC | BIT
RATE | R/T
OR
D/T | REMARKS: |
|----------------------|---------|--------------------|--------------------------|------------------------|-------------|------------------|---|
| 322 | ATS/MAD | 4022 | 19:00:00 | 19:03:51 | 4 | R/T | |
| 605 | ATS/BUI | AS155 | 19:00:00 | 19:03:51 | 4 | R/T | SOME BETTER THAN MAD |
| 324 | ATS/MAD | 4044 | 19:03:18 | 19:09:36 | 4 | D/T | |
| 606 | ATS/BUI | 4055 | 19:03:18 | 19:09:36 | 4 | D/T | |
| 566 | VAN | 4023 | 19:14: | 19:22: | 4 | R/T | OFF AT 201:19:22:00
NO 4KBS DATA ON TAPE |
| ***** | | | | | | | |
| ATS/MAD TAPE NO:324 | | | 19:26:27 | 19:27:56 | 4 | D/T | ADDITIONAL DATA FOUND |
| DATA REQUEST NO:4044 | | | 19:32:04 | 19:36:01 | 4 | D/T | ON BOTH THE MAD AND |
| ***** | | | | | | | |
| ATS/BUI TAPE NO:606 | | | 19:42:38 | 19:47:21 | 4 | D/T | BUI TAPES AFTER THE |
| DATA REQUEST NO:4055 | | | 19:52:39 | 19:56:48 | 4 | D/T | PUBLISHED EXPERIMENT |
| | | | | | | | OFF TIME |
| | | | 20:03:33 | 20:07:43 | 4 | D/T | |
| | | | 20:12:14 | 20:16:08 | 4 | D/T | |
| | | | 20:22:15 | 20:26:46 | 4 | D/T | |
| | | | 20:32:36 | 20:36:52 | 4 | D/T | |
| | | | 20:42:12 | 20:46:46 | 4 | D/T | |
| | | | 21:01:46 | 21:03:27 | 4 | D/T | |

```

1
ATS   MAD-0322
=====
VAN   BUI-0605
                                407-0566
                                =====

4
      MAD-0324
DUMP  *****
EVENT BUI-0606
HBR   -----
                                ΔMA-048(OFF)
                                :
LBR   -----
      +-----+
201:19:00  05  10  15  20  25  201:19:30
                                127:00

1
2
3
4
DUMP
EVENT
HBR   ΔREV 77
      :
LBR   :
      +-----+
201:19:30  35  40  45  50  55  201:20:00
                                127:30

1
2
3
4
DUMP
EVENT
HBR
LBR
      +-----+
201:20:00  05  10  15  20  25  201:20:30
                                128:00

201:19:00                                128:10 CTE                                201:20:30

```

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO:22 GMT DAY NO:201 (48ms TIME ERROR) PAGE:156A

| SITE
TAPE
NO. | SITE | DATA
REQ
NO. | GMT
FROM
HR:MM:SEC | GMT
TO
HR:MM:SEC | BIT
RATE | R/T
OR
D/T | REMARKS: |
|---------------------|------|--------------------|--------------------------|------------------------|-------------|------------------|----------|
|---------------------|------|--------------------|--------------------------|------------------------|-------------|------------------|----------|

| | | | | | | | |
|-----|---------|------|----------|----------|---|-----|--------------------|
| 324 | ATS/MAD | 4024 | 21:19:36 | 21:23:08 | 4 | R/T | ON AT 201:21:29:00 |
|-----|---------|------|----------|----------|---|-----|--------------------|

| | | | | | | | |
|-----|---------|-------|----------|----------|---|-----|-----------------|
| 606 | ATS/BUI | AS156 | 21:19:32 | 21:23:08 | 4 | R/T | BETTER THAN MAD |
|-----|---------|-------|----------|----------|---|-----|-----------------|

| | | | | | | |
|-----|---------|------|----------|----------|---|-----|
| 324 | ATS/MAD | 4024 | 21:24:36 | 22:09:14 | 4 | R/T |
|-----|---------|------|----------|----------|---|-----|

| | | | | | | | |
|-----|---------|-------|----------|----------|---|-----|-----------------|
| 606 | ATS/BUI | AS156 | 21:24:33 | 22:09:15 | 4 | R/T | BETTER THAN MAD |
|-----|---------|-------|----------|----------|---|-----|-----------------|

| | | | | | | | |
|--|--|--|---|---|---|---|---------------------|
| | | | : | : | : | : | OFF AT 201:21:52:00 |
|--|--|--|---|---|---|---|---------------------|

[illegible][illegible]

| | | | | | | | | | |
|--|--|--|---|---|---|---|--|--|--|
| | | | : | : | : | : | | | |
|--|--|--|---|---|---|---|--|--|--|

[illegible][illegible][illegible]

1
2
3
4

DUMP
EVENT
HBR

LBR

201:20:30 35 40 45 50 55 201:21:00
129:30

1

ATS

MAD-0324
====
BUI-0606

3

4

DUMP
EVENT
HBR

BLOCK 22 * ΔREV 78

ΔMA-048
:-- (ON)

LBR

201:21:00 05 10 15 20 25 201:21:30
129:00

1

2

3

MAD-0324

ATS

=====

BUI-0606

DUMP
EVENT
HBR

ΔMA-048(OFF)

LBR

201:21:30 35 40 45 50 55 201:22:00
129:30

201:20:30

129:40 CTE

201:22:00

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO:22 GMT DAY NO:201 (48ms TIME ERROR) : PAGE:157A

| SITE
TAPE
NO. | SITE | DATA
REQ
NO. | GMT
FROM
HR:MN:SEC | GMT
TO
HR:MN:SEC | BIT
RATE | R/T
OR
D/T | REMARKS: |
|---------------------|------|--------------------|--------------------------|------------------------|-------------|------------------|----------|
| ***** | | | | | | | |

| | | | | | | | |
|-----|---------|------|----------|----------|---|-----|--------------------|
| 363 | ATS/MAD | 4025 | 22:58:43 | 23:05:41 | 4 | D/T | ON AT 201:22:50:00 |
|-----|---------|------|----------|----------|---|-----|--------------------|

| | | | | | | | |
|-----|---------|------|----------|----------|---|-----|-----------------|
| 607 | ATS/BUI | 4056 | 22:58:43 | 23:05:40 | 4 | D/T | BETTER THAN MAD |
|-----|---------|------|----------|----------|---|-----|-----------------|

| | | | | | | | |
|-----|-----|------|--------|--------|---|-----|----------------------|
| 495 | ACN | 4026 | 23:07: | 23:14: | 4 | R/T | NO 4KBS DATA ON TAPE |
|-----|-----|------|--------|--------|---|-----|----------------------|

| | | | | | | |
|-----|---------|------|----------|----------|---|-----|
| 363 | ATS/MAD | 4025 | 23:08:58 | 23:13:59 | 4 | D/T |
|-----|---------|------|----------|----------|---|-----|

| | | | | | | | |
|-----|---------|------|----------|----------|---|-----|-----------------|
| 607 | ATS/BUI | 4056 | 23:08:58 | 23:13:59 | 4 | D/T | BETTER THAN MAD |
|-----|---------|------|----------|----------|---|-----|-----------------|

| | | | | | | |
|-----|-----|------|----------|----------|---|-----|
| 379 | GWM | 4045 | 23:14:01 | 23:15:47 | 4 | D/T |
|-----|-----|------|----------|----------|---|-----|

| | | | | | | | |
|-----|-----|------|----------|----------|---|-----|----------------|
| 379 | GWM | 4045 | 23:27:47 | 23:30:00 | 4 | D/T | (CONT.ON 158A) |
|-----|-----|------|----------|----------|---|-----|----------------|

[illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible]

1
2
3
4

DUMP
EVENT
HBR

LBR

201:22:00 05 10 15 20 25 201:22:30
130:00

1
2
3
4

DUMP
EVENT
HBR

REV 79Δ

ΔMA-048(ON)

MAD-0363
BUI-0607

LBR

201:22:30 35 40 45 50 55 201:23:00
130:30

1
2

ACN

432-0495
=====

4

MAD-0363
DUMP
EVENT BUI-0607
HBR

MAD-0363 GWM
BUI-0607

GWM
=====

LBR

201:23:00 05 10 15 20 25 201:23:30
131:00

201:22:00

131:10 CTE

201:23:30

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO:22 GMT DAY NO:201 (48ms TIME ERROR) PAGE:158A

| SITE
TAPE
NO. | SITE | DATA
REQ
NO. | GMT
FROM
HR:MM:SEC | GMT
TO
HR:MM:SEC | BIT
RATE | R/T
OR
D/T | REMARKS: |
|---------------------|------|--------------------|--------------------------|------------------------|-------------|------------------|---------------------|
| 379 | GWM | 4056 | 23:30:00 | 23:31:22 | 4 | D/T | |
| 409 | MIL | 4046 | 23:31:25 | 23:33:15 | 4 | D/T | OFF AT 201:23:32:00 |

GMT DAY NO: 202

[illegible]

ASTP-TIME LINE (POST MISSION)

1
2
3
4

GWM MIL
DUMP
EVENT ΔMA-048(OFF)
HBR

LBR
+-----+
201:23:30 35 40 45 50 55 202:00:00
131:30

1
2
3
4

DUMP
EVENT ΔREV 80
HBR

LBR
+-----+
202:00:00 05 10 15 20 25 202:00:30
132:00

1
2
3

ATS
MAD-0363
=====

DUMP
EVENT
HBR
BUI-0607
ΔMA-048(ON)

LBR
+-----+
202:00:30 35 40 45 50 55 202:01:00
132:30

201:23:30

132:40 CTE

202:01:00

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO: 22

GMT DAY NO:202 (57ms TIME ERROR)

PAGE: 159A

[illegible]

1
2
3
MAD-0363
ATS =====
BUI-0607
DUMP
EVENT
HBR ----- ΔMA-048(OFF)
LBR
+-----+
202:01:00 05 10 15 20 25 202:01:30
133:00

1
2
3
4
DUMP
EVENT
HBR ΔREV 81
LBR
+-----+
202:01:30 35 40 45 50 55 202:02:00
133:30

1
2
3
4
DUMP
EVENT
HBR *BLOCK 23
LBR
+-----+
202:02:00 05 10 15 20 25 202:02:30
134:00

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO:225 GMT DAY NO:202 (57Ms TIME ERROR) PAGE:160A

| SITE
TAPE
NO. | SITE | DATA
REQ
NO. | GMT
FROM
HR:MN:SEC | GMT
TO
HR:MN:SEC | BIT
RATE | R/T
OR
D/T | REMARKS: |
|---------------------|------|--------------------|--------------------------|------------------------|-------------|------------------|----------|
|---------------------|------|--------------------|--------------------------|------------------------|-------------|------------------|----------|

| | | | | | | |
|--|--|---|---|---|---|--------------------|
| | | : | : | : | : | ON AT 202:13:12:00 |
|--|--|---|---|---|---|--------------------|

| | | | | | | | |
|-----|---------|------|--------|--------|---|-----|----------------------|
| 386 | ATS/MAD | 4028 | 13:12: | 13:33: | 4 | R/T | NO 4KBS DATA ON TAPE |
|-----|---------|------|--------|--------|---|-----|----------------------|

| | | | | | | | |
|-----|---------|-------|--------|--------|---|-----|----------------------|
| 608 | ATS/BUI | AS158 | 13:12: | 13:33: | 4 | R/T | NO 4KBS DATA ON TAPE |
|-----|---------|-------|--------|--------|---|-----|----------------------|

| | | | | | | |
|--|--|---|---|---|---|---------------------|
| | | : | : | : | : | OFF AT 202:13:33:00 |
|--|--|---|---|---|---|---------------------|

[illegible]

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 | 101 | 102 | 103 | 104 | 105 | 106 | 107 | 108 | 109 | 110 | 111 | 112 | 113 | 114 | 115 | 116 | 117 | 118 | 119 | 120 | 121 | 122 | 123 | 124 | 125 | 126 | 127 | 128 | 129 | 130 | 131 | 132 | 133 | 134 | 135 | 136 | 137 | 138 | 139 | 140 | 141 | 142 | 143 | 144 | 145 | 146 | 147 | 148 | 149 | 150 | 151 | 152 | 153 | 154 | 155 | 156 | 157 | 158 | 159 | 160 | 161 | 162 | 163 | 164 | 165 | 166 | 167 | 168 | 169 | 170 | 171 | 172 | 173 | 174 | 175 | 176 | 177 | 178 | 179 | 180 | 181 | 182 | 183 | 184 | 185 | 186 | 187 | 188 | 189 | 190 | 191 | 192 | 193 | 194 | 195 | 196 | 197 | 198 | 199 | 200 | 201 | 202 | 203 | 204 | 205 | 206 | 207 | 208 | 209 | 210 | 211 | 212 | 213 | 214 | 215 | 216 | 217 | 218 | 219 | 220 | 221 | 222 | 223 | 224 | 225 | 226 | 227 | 228 | 229 | 230 | 231 | 232 | 233 | 234 | 235 | 236 | 237 | 238 | 239 | 240 | 241 | 242 | 243 | 244 | 245 | 246 | 247 | 248 | 249 | 250 | 251 | 252 | 253 | 254 | 255 | 256 | 257 | 258 | 259 | 260 | 261 | 262 | 263 | 264 | 265 | 266 | 267 | 268 | 269 | 270 | 271 | 272 | 273 | 274 | 275 | 276 | 277 | 278 | 279 | 280 | 281 | 282 | 283 | 284 | 285 | 286 | 287 | 288 | 289 | 290 | 291 | 292 | 293 | 294 | 295 | 296 | 297 | 298 | 299 | 300 | 301 | 302 | 303 | 304 | 305 | 306 | 307 | 308 | 309 | 310 | 311 | 312 | 313 | 314 | 315 | 316 | 317 | 318 | 319 | 320 | 321 | 322 | 323 | 324 | 325 | 326 | 327 | 328 | 329 | 330 | 331 | 332 | 333 | 334 | 335 | 336 | 337 | 338 | 339 | 340 | 341 | 342 | 343 | 344 | 345 | 346 | 347 | 348 | 349 | 350 | 351 | 352 | 353 | 354 | 355 | 356 | 357 | 358 | 359 | 360 | 361 | 362 | 363 | 364 | 365 | 366 | 367 | 368 | 369 | 370 | 371 | 372 | 373 | 374 | 375 | 376 | 377 | 378 | 379 | 380 | 381 | 382 | 383 | 384 | 385 | 386 | 387 | 388 | 389 | 390 | 391 | 392 | 393 | 394 | 395 | 396 | 397 | 398 | 399 | 400 | 401 | 402 | 403 | 404 | 405 | 406 | 407 | 408 | 409 | 410 | 411 | 412 | 413 | 414 | 415 | 416 | 417 | 418 | 419 | 420 | 421 | 422 | 423 | 424 | 425 | 426 | 427 | 428 | 429 | 430 | 431 | 432 | 433 | 434 | 435 | 436 | 437 | 438 | 439 | 440 | 441 | 442 | 443 | 444 | 445 | 446 | 447 | 448 | 449 | 450 | 451 | 452 | 453 | 454 | 455 | 456 | 457 | 458 | 459 | 460 | 461 | 462 | 463 | 464 | 465 | 466 | 467 | 468 | 469 | 470 | 471 | 472 | 473 | 474 | 475 | 476 | 477 | 478 | 479 | 480 | 481 | 482 | 483 | 484 | 485 | 486 | 487 | 488 | 489 | 490 | 491 | 492 | 493 | 494 | 495 | 496 | 497 | 498 | 499 | 500 | 501 | 502 | 503 | 504 | 505 | 506 | 507 | 508 | 509 | 510 | 511 | 512 | 513 | 514 | 515 | 516 | 517 | 518 | 519 | 520 | 521 | 522 | 523 | 52 |
|--|---|---|---|---|---|---|---|---|---|-----|----|
|--|---|---|---|---|---|---|---|---|---|-----|----|

[illegible][illegible][illegible][illegible]

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 | 101 | 102 | 103 | 104 | 105 | 106 | 107 | 108 | 109 | 110 | 111 | 112 | 113 | 114 | 115 | 116 | 117 | 118 | 119 | 120 | 121 | 122 | 123 | 124 | 125 | 126 | 127 | 128 | 129 | 130 | 131 | 132 | 133 | 134 | 135 | 136 | 137 | 138 | 139 | 140 | 141 | 142 | 143 | 144 | 145 | 146 | 147 | 148 | 149 | 150 | 151 | 152 | 153 | 154 | 155 | 156 | 157 | 158 | 159 | 160 | 161 | 162 | 163 | 164 | 165 | 166 | 167 | 168 | 169 | 170 | 171 | 172 | 173 | 174 | 175 | 176 | 177 | 178 | 179 | 180 | 181 | 182 | 183 | 184 | 185 | 186 | 187 | 188 | 189 | 190 | 191 | 192 | 193 | 194 | 195 | 196 | 197 | 198 | 199 | 200 | 201 | 202 | 203 | 204 | 205 | 206 | 207 | 208 | 209 | 210 | 211 | 212 | 213 | 214 | 215 | 216 | 217 | 218 | 219 | 220 | 221 | 222 | 223 | 224 | 225 | 226 | 227 | 228 | 229 | 230 | 231 | 232 | 233 | 234 | 235 | 236 | 237 | 238 | 239 | 240 | 241 | 242 | 243 | 244 | 245 | 246 | 247 | 248 | 249 | 250 | 251 | 252 | 253 | 254 | 255 | 256 | 257 | 258 | 259 | 260 | 261 | 262 | 263 | 264 | 265 | 266 | 267 | 268 | 269 | 270 | 271 | 272 | 273 | 274 | 275 | 276 | 277 | 278 | 279 | 280 | 281 | 282 | 283 | 284 | 285 | 286 | 287 | 288 | 289 | 290 | 291 | 292 | 293 | 294 | 295 | 296 | 297 | 298 | 299 | 300 | 301 | 302 | 303 | 304 | 305 | 306 | 307 | 308 | 309 | 310 | 311 | 312 | 313 | 314 | 315 | 316 | 317 | 318 | 319 | 320 | 321 | 322 | 323 | 324 | 325 | 326 | 327 | 328 | 329 | 330 | 331 | 332 | 333 | 334 | 335 | 336 | 337 | 338 | 339 | 340 | 341 | 342 | 343 | 344 | 345 | 346 | 347 | 348 | 349 | 350 | 351 | 352 | 353 | 354 | 355 | 356 | 357 | 358 | 359 | 360 | 361 | 362 | 363 | 364 | 365 | 366 | 367 | 368 | 369 | 370 | 371 | 372 | 373 | 374 | 375 | 376 | 377 | 378 | 379 | 380 | 381 | 382 | 383 | 384 | 385 | 386 | 387 | 388 | 389 | 390 | 391 | 392 | 393 | 394 | 395 | 396 | 397 | 398 | 399 | 400 | 401 | 402 | 403 | 404 | 405 | 406 | 407 | 408 | 409 | 410 | 411 | 412 | 413 | 414 | 415 | 416 | 417 | 418 | 419 | 420 | 421 | 422 | 423 | 424 | 425 | 426 | 427 | 428 | 429 | 430 | 431 | 432 | 433 | 434 | 435 | 436 | 437 | 438 | 439 | 440 | 441 | 442 | 443 | 444 | 445 | 446 | 447 | 448 | 449 | 450 | 451 | 452 | 453 | 454 | 455 | 456 | 457 | 458 | 459 | 460 | 461 | 462 | 463 | 464 | 465 | 466 | 467 | 468 | 469 | 470 | 471 | 472 | 473 | 474 | 475 | 476 | 477 | 478 | 479 | 480 | 481 | 482 | 483 | 484 | 485 | 486 | 487 | 488 | 489 | 490 | 491 | 492 | 493 | 494 | 495 | 496 | 497 | 498 | 499 | 500 | 501 | 502 | 503 | 504 | 505 | 506 | 507 | 508 | 509 | 510 | 511 | 512 | 513 | 514 | 515 | 516 | 517 | 518 | 519 | 520 | 521 | 522 | 523 | 52 |
|--|---|---|---|---|---|---|---|---|---|-----|----|
|--|---|---|---|---|---|---|---|---|---|-----|----|

[illegible]

The diagram illustrates the experimental setup. A participant is seated at a table, looking at a screen. On the screen, there is a starting point (green dot) and a target (red dot). The participant's hand is positioned at the starting point. The diagram shows the spatial relationship between the participant, the screen, and the target.

ASTP-TIME LINE (POST-MISSION)

PAGE 160

1

2

ATS

MAD-0386

BUI-0608

4

DUMP
EVENT
HBR

ΔMA-048(ON)

LBR

202:13:00 05 10 15 20 25 202:13:30
145:00

1

2

3

MAD-0386
ATS =====
BUI-0608

DUMP
EVENT
HBR

ΔMA-048(OFF)

LBR

202:13:30 35 40 45 50 55 202:14:00
145:30

1

2

3

4

DUMP
EVENT
HBR

LBR

202:14:00 05 10 15 20 25 202:14:30
146:00

202:13:00

146:10 CTE

202:14:30

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO:26 GMT DAY NO:202 (57MS. TIME ERROR) PAGE:161A

| SITE
TAPE
NO. | SITE | DATA
REQ
NO. | GMT
FROM
HR:MN:SEC | GMT
TO
HR:MN:SEC | BIT
RATE | R/T
OR
D/T | REMARKS: |
|---------------------|------|--------------------|--------------------------|------------------------|-------------|------------------|----------|
|---------------------|------|--------------------|--------------------------|------------------------|-------------|------------------|----------|

| | | | | | | | |
|--|--|--|---|---|---|---|--------------------|
| | | | : | : | : | : | ON AT 202:22:59:00 |
|--|--|--|---|---|---|---|--------------------|

| | | | | | | |
|-----|---------|------|----------|----------|---|-----|
| 392 | ATS/MAD | 4029 | 22:35:45 | 23:23:04 | 4 | R/T |
|-----|---------|------|----------|----------|---|-----|

| | | | | | | | |
|-----|---------|------|----------|----------|---|-----|-----------------|
| 609 | ATS/BUI | 4049 | 22:35:40 | 23:23:06 | 4 | R/T | BETTER THAN MAD |
|-----|---------|------|----------|----------|---|-----|-----------------|

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| | | : | : | : | : | OFF AT 202:23:13:00 |
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| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 | 101 | 102 | 103 | 104 | 105 | 106 | 107 | 108 | 109 | 110 | 111 | 112 | 113 | 114 | 115 | 116 | 117 | 118 | 119 | 120 | 121 | 122 | 123 | 124 | 125 | 126 | 127 | 128 | 129 | 130 | 131 | 132 | 133 | 134 | 135 | 136 | 137 | 138 | 139 | 140 | 141 | 142 | 143 | 144 | 145 | 146 | 147 | 148 | 149 | 150 | 151 | 152 | 153 | 154 | 155 | 156 | 157 | 158 | 159 | 160 | 161 | 162 | 163 | 164 | 165 | 166 | 167 | 168 | 169 | 170 | 171 | 172 | 173 | 174 | 175 | 176 | 177 | 178 | 179 | 180 | 181 | 182 | 183 | 184 | 185 | 186 | 187 | 188 | 189 | 190 | 191 | 192 | 193 | 194 | 195 | 196 | 197 | 198 | 199 | 200 | 201 | 202 | 203 | 204 | 205 | 206 | 207 | 208 | 209 | 210 | 211 | 212 | 213 | 214 | 215 | 216 | 217 | 218 | 219 | 220 | 221 | 222 | 223 | 224 | 225 | 226 | 227 | 228 | 229 | 230 | 231 | 232 | 233 | 234 | 235 | 236 | 237 | 238 | 239 | 240 | 241 | 242 | 243 | 244 | 245 | 246 | 247 | 248 | 249 | 250 | 251 | 252 | 253 | 254 | 255 | 256 | 257 | 258 | 259 | 260 | 261 | 262 | 263 | 264 | 265 | 266 | 267 | 268 | 269 | 270 | 271 | 272 | 273 | 274 | 275 | 276 | 277 | 278 | 279 | 280 | 281 | 282 | 283 | 284 | 285 | 286 | 287 | 288 | 289 | 290 | 291 | 292 | 293 | 294 | 295 | 296 | 297 | 298 | 299 | 300 | 301 | 302 | 303 | 304 | 305 | 306 | 307 | 308 | 309 | 310 | 311 | 312 | 313 | 314 | 315 | 316 | 317 | 318 | 319 | 320 | 321 | 322 | 323 | 324 | 325 | 326 | 327 | 328 | 329 | 330 | 331 | 332 | 333 | 334 | 335 | 336 | 337 | 338 | 339 | 340 | 341 | 342 | 343 | 344 | 345 | 346 | 347 | 348 | 349 | 350 | 351 | 352 | 353 | 354 | 355 | 356 | 357 | 358 | 359 | 360 | 361 | 362 | 363 | 364 | 365 | 366 | 367 | 368 | 369 | 370 | 371 | 372 | 373 | 374 | 375 | 376 | 377 | 378 | 379 | 380 | 381 | 382 | 383 | 384 | 385 | 386 | 387 | 388 | 389 | 390 | 391 | 392 | 393 | 394 | 395 | 396 | 397 | 398 | 399 | 400 | 401 | 402 | 403 | 404 | 405 | 406 | 407 | 408 | 409 | 410 | 411 | 412 | 413 | 414 | 415 | 416 | 417 | 418 | 419 | 420 | 421 | 422 | 423 | 424 | 425 | 426 | 427 | 428 | 429 | 430 | 431 | 432 | 433 | 434 | 435 | 436 | 437 | 438 | 439 | 440 | 441 | 442 | 443 | 444 | 445 | 446 | 447 | 448 | 449 | 450 | 451 | 452 | 453 | 454 | 455 | 456 | 457 | 458 | 459 | 460 | 461 | 462 | 463 | 464 | 465 | 466 |
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Figure 1 illustrates the experimental setup. A participant is seated at a table, looking at a screen. The screen displays a 'Stimulus' area with a 'Target' and a 'Response' area. A 'Response key' is located on the table. A 'Response time' is indicated by a horizontal bar. A 'Response time' is also indicated by a horizontal bar. A 'Response time' is also indicated by a horizontal bar.

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| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
|---|---|---|---|---|---|---|---|---|-----|

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 | 101 | 102 | 103 | 104 | 105 | 106 | 107 | 108 | 109 | 110 | 111 | 112 | 113 | 114 | 115 | 116 | 117 | 118 | 119 | 120 | 121 | 122 | 123 | 124 | 125 | 126 | 127 | 128 | 129 | 130 | 131 | 132 | 133 | 134 | 135 | 136 | 137 | 138 | 139 | 140 | 141 | 142 | 143 | 144 | 145 | 146 | 147 | 148 | 149 | 150 | 151 | 152 | 153 | 154 | 155 | 156 | 157 | 158 | 159 | 160 | 161 | 162 | 163 | 164 | 165 | 166 | 167 | 168 | 169 | 170 | 171 | 172 | 173 | 174 | 175 | 176 | 177 | 178 | 179 | 180 | 181 | 182 | 183 | 184 | 185 | 186 | 187 | 188 | 189 | 190 | 191 | 192 | 193 | 194 | 195 | 196 | 197 | 198 | 199 | 200 | 201 | 202 | 203 | 204 | 205 | 206 | 207 | 208 | 209 | 210 | 211 | 212 | 213 | 214 | 215 | 216 | 217 | 218 | 219 | 220 | 221 | 222 | 223 | 224 | 225 | 226 | 227 | 228 | 229 | 230 | 231 | 232 | 233 | 234 | 235 | 236 | 237 | 238 | 239 | 240 | 241 | 242 | 243 | 244 | 245 | 246 | 247 | 248 | 249 | 250 | 251 | 252 | 253 | 254 | 255 | 256 | 257 | 258 | 259 | 260 | 261 | 262 | 263 | 264 | 265 | 266 | 267 | 268 | 269 | 270 | 271 | 272 | 273 | 274 | 275 | 276 | 277 | 278 | 279 | 280 | 281 | 282 | 283 | 284 | 285 | 286 | 287 | 288 | 289 | 290 | 291 | 292 | 293 | 294 | 295 | 296 | 297 | 298 | 299 | 300 | 301 | 302 | 303 | 304 | 305 | 306 | 307 | 308 | 309 | 310 | 311 | 312 | 313 | 314 | 315 | 316 | 317 | 318 | 319 | 320 | 321 | 322 | 323 | 324 | 325 | 326 | 327 | 328 | 329 | 330 | 331 | 332 | 333 | 334 | 335 | 336 | 337 | 338 | 339 | 340 | 341 | 342 | 343 | 344 | 345 | 346 | 347 | 348 | 349 | 350 | 351 | 352 | 353 | 354 | 355 | 356 | 357 | 358 | 359 | 360 | 361 | 362 | 363 | 364 | 365 | 366 | 367 | 368 | 369 | 370 | 371 | 372 | 373 | 374 | 375 | 376 | 377 | 378 | 379 | 380 | 381 | 382 | 383 | 384 | 385 | 386 | 387 | 388 | 389 | 390 | 391 | 392 | 393 | 394 | 395 | 396 | 397 | 398 | 399 | 400 | 401 | 402 | 403 | 404 | 405 | 406 | 407 | 408 | 409 | 410 | 411 | 412 | 413 | 414 | 415 | 416 | 417 | 418 | 419 | 420 | 421 | 422 | 423 | 424 | 425 | 426 | 427 | 428 | 429 | 430 | 431 | 432 | 433 | 434 | 435 | 436 | 437 | 438 | 439 | 440 | 441 | 442 | 443 | 444 | 445 | 446 | 447 | 448 | 449 | 450 | 451 | 452 | 453 | 454 | 455 | 456 | 457 | 458 | 459 | 460 | 461 | 462 | 463 | 464 | 465 | 466 | 467 | 468 | 469 | 470 | 471 | 472 | 473 | 474 | 475 | 476 | 477 | 478 | 479 | 480 | 481 | 482 | 483 | 484 | 485 | 486 | 487 | 488 | 489 | 490 | 491 | 492 | 493 | 494 | 495 | 496 | 497 | 498 | 499 | 500 | 501 | 502 | 503 | 504 | 505 | 506 | 507 | 508 | 509 | 510 | 511 | 512 | 513 | 514 | 515 | 516 | 517 | 518 | 519 | 520 | 521 | 522 | 523 | 52 |
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DUMP
EVENT
HBR

ΔREV 94

LBR

202:22:00 05 10 15 20 25 202:22:30
154:00

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2

ATS

MAD-0392
==
BUI-0609

4

DUMP
EVENT
HBR

ΔMA-048
:-- (ON)

LBR

202:22:30 35 40 45 50 55 202:23:00
154:30

1
2
3

MAD-0392
ATS =====
BUI-0609

DUMP
EVENT
HBR

ΔMA-048(OFF)

* BLOCK 27

LBR

202:23:00 05 10 15 20 25 202:23:30
155:00

202:22:00

155:10 CTE

202:23:30

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO: 30

GMT DAY NO:203 (67MS TIME ERROR)

PAGE: 162A

| SITE
TAPE
NO. | SITE | DATA
REQ
NO. | GMT
FROM
HR:MN:SEC | GMT
TO
HR:MN:SEC | BIT
RATE | R/T
OR
D/T | REMARKS: |
|---------------------|------|--------------------|--------------------------|------------------------|-------------|------------------|--------------------|
| | | | : | : | | | ON AT 203:14:55:00 |

ON AT 203:14:55:00

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| 548 | QUI | 4040 | 14:57:04 | 14:57:30 | 4 | D/T |
|-----|-----|------|----------|----------|---|-----|

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| 417 | MIL | 4030 | 14:57:34 | 15:02:26 | 4 | D/T |
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| 383 | BDA | 4031 | 15:00:24 | 15:06:45 | 4 | D/T |
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|-----|---------|------|----------|----------|---|-----|-----------------|
| 610 | ATS/BLI | 4057 | 15:03:06 | 15:25:37 | 4 | D/T | BETTER THAN MAD |
|-----|---------|------|----------|----------|---|-----|-----------------|

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|-----|---------|------|----------|----------|---|-----|
| 452 | ATS/MAD | 4032 | 15:05:52 | 15:25:35 | 4 | D/T |
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OFF AT 203:15:25:00

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| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 | 101 | 102 | 103 | 104 | 105 | 106 | 107 | 108 | 109 | 110 | 111 | 112 | 113 | 114 | 115 | 116 | 117 | 118 | 119 | 120 | 121 | 122 | 123 | 124 | 125 | 126 | 127 | 128 | 129 | 130 | 131 | 132 | 133 | 134 | 135 | 136 | 137 | 138 | 139 | 140 | 141 | 142 | 143 | 144 | 145 | 146 | 147 | 148 | 149 | 150 | 151 | 152 | 153 | 154 | 155 | 156 | 157 | 158 | 159 | 160 | 161 | 162 | 163 | 164 | 165 | 166 | 167 | 168 | 169 | 170 | 171 | 172 | 173 | 174 | 175 | 176 | 177 | 178 | 179 | 180 | 181 | 182 | 183 | 184 | 185 | 186 | 187 | 188 | 189 | 190 | 191 | 192 | 193 | 194 | 195 | 196 | 197 | 198 | 199 | 200 | 201 | 202 | 203 | 204 | 205 | 206 | 207 | 208 | 209 | 210 | 211 | 212 | 213 | 214 | 215 | 216 | 217 | 218 | 219 | 220 | 221 | 222 | 223 | 224 | 225 | 226 | 227 | 228 | 229 | 230 | 231 | 232 | 233 | 234 | 235 | 236 | 237 | 238 | 239 | 240 | 241 | 242 | 243 | 244 | 245 | 246 | 247 | 248 | 249 | 250 | 251 | 252 | 253 | 254 | 255 | 256 | 257 | 258 | 259 | 260 | 261 | 262 | 263 | 264 | 265 | 266 | 267 | 268 | 269 | 270 | 271 | 272 | 273 | 274 | 275 | 276 | 277 | 278 | 279 | 280 | 281 | 282 | 283 | 284 | 285 | 286 | 287 | 288 | 289 | 290 | 291 | 292 | 293 | 294 | 295 | 296 | 297 | 298 | 299 | 300 | 301 | 302 | 303 | 304 | 305 | 306 | 307 | 308 | 309 | 310 | 311 | 312 | 313 | 314 | 315 | 316 | 317 | 318 | 319 | 320 | 321 | 322 | 323 | 324 | 325 | 326 | 327 | 328 | 329 | 330 | 331 | 332 | 333 | 334 | 335 | 336 | 337 | 338 | 339 | 340 | 341 | 342 | 343 | 344 | 345 | 346 | 347 | 348 | 349 | 350 | 351 | 352 | 353 | 354 | 355 | 356 | 357 | 358 | 359 | 360 | 361 | 362 | 363 | 364 | 365 | 366 | 367 | 368 | 369 | 370 | 371 | 372 | 373 | 374 | 375 | 376 | 377 | 378 | 379 | 380 | 381 | 382 | 383 | 384 | 385 | 386 | 387 | 388 | 389 | 390 | 391 | 392 | 393 | 394 | 395 | 396 | 397 | 398 | 399 | 400 | 401 | 402 | 403 | 404 | 405 | 406 | 407 | 408 | 409 | 410 | 411 | 412 | 413 | 414 | 415 | 416 | 417 | 418 | 419 | 420 | 421 | 422 | 423 | 424 | 425 | 426 | 427 | 428 | 429 | 430 | 431 | 432 | 433 | 434 | 435 | 436 | 437 | 438 | 439 | 440 | 441 | 442 | 443 | 444 | 445 | 446 | 447 | 448 | 449 | 450 | 451 | 452 | 453 | 454 | 455 | 456 | 457 | 458 | 459 | 460 | 461 | 462 | 463 | 464 | 465 | 466 | 467 | 468 | 469 | 470 | 471 | 472 | 473 | 474 | 475 | 476 | 477 | 478 | 479 | 480 | 481 | 482 | 483 | 484 | 485 | 486 | 487 | 488 | 489 | 490 | 491 | 492 | 493 | 494 | 495 | 496 | 497 | 498 | 499 | 500 | 501 | 502 | 503 | 504 | 505 | 506 | 507 | 508 | 509 | 510 | 511 | 512 | 513 | 514 | 515 | 516 | 517 | 518 | 519 | 520 | 521 | 522 | 523</ |
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DUMP
EVENT
HBR

QUI/MIL

ΔMA-048(ON)

LBR

203:14:30 35 40 45 50 55 203:15:00
170:30

1
2
3
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MIL/BDA MAD-0452

DUMP *****Δ*****

EVENT BUI-0610

ΔMA-048(OFF)

HBR

LBR

203:15:00 05 10 15 20 25 203:15:30
171:00

1
2
3
4

DUMP
EVENT
HBR

ΔREV 105

LBR

203:15:30 35 40 45 50 55 203:16:00
171:30

203:14:30

171:40 CTE

203:16:00

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO: 30

GMT DAY NO:203 (67MS TIME ERROR)

PAGE: 163A

| SITE
TAPE
NO. | SITE | DATA
REQ
NO. | GMT
FROM
HR:MN:SEC | GMT
TO
HR:MN:SEC | BIT
RATE | R/T
OR
D/T | REMARKS: |
|---------------------|------|--------------------|--------------------------|------------------------|-------------|------------------|----------|
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ON AT 203:16:28:00

| | | | | | | |
|-----|---------|------|----------|----------|---|-----|
| 452 | ATS/MAD | 4033 | 16:24:01 | 16:51:26 | 4 | R/T |
|-----|---------|------|----------|----------|---|-----|

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|-----|---------|-------|----------|----------|---|-----|-----------------|
| 610 | ATS/BUI | AS159 | 16:01:02 | 16:51:27 | 4 | R/T | BETTER THAN MAD |
|-----|---------|-------|----------|----------|---|-----|-----------------|

OFF AT 203:16:52:00

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| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
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| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 | 101 | 102 | 103 | 104 | 105 | 106 | 107 | 108 | 109 | 110 | 111 | 112 | 113 | 114 | 115 | 116 | 117 | 118 | 119 | 120 | 121 | 122 | 123 | 124 | 125 | 126 | 127 | 128 | 129 | 130 | 131 | 132 | 133 | 134 | 135 | 136 | 137 | 138 | 139 | 140 | 141 | 142 | 143 | 144 | 145 | 146 | 147 | 148 | 149 | 150 | 151 | 152 | 153 | 154 | 155 | 156 | 157 | 158 | 159 | 160 | 161 | 162 | 163 | 164 | 165 | 166 | 167 | 168 | 169 | 170 | 171 | 172 | 173 | 174 | 175 | 176 | 177 | 178 | 179 | 180 | 181 | 182 | 183 | 184 | 185 | 186 | 187 | 188 | 189 | 190 | 191 | 192 | 193 | 194 | 195 | 196 | 197 | 198 | 199 | 200 | 201 | 202 | 203 | 204 | 205 | 206 | 207 | 208 | 209 | 210 | 211 | 212 | 213 | 214 | 215 | 216 | 217 | 218 | 219 | 220 | 221 | 222 | 223 | 224 | 225 | 226 | 227 | 228 | 229 | 230 | 231 | 232 | 233 | 234 | 235 | 236 | 237 | 238 | 239 | 240 | 241 | 242 | 243 | 244 | 245 | 246 | 247 | 248 | 249 | 250 | 251 | 252 | 253 | 254 | 255 | 256 | 257 | 258 | 259 | 260 | 261 | 262 | 263 | 264 | 265 | 266 | 267 | 268 | 269 | 270 | 271 | 272 | 273 | 274 | 275 | 276 | 277 | 278 | 279 | 280 | 281 | 282 | 283 | 284 | 285 | 286 | 287 | 288 | 289 | 290 | 291 | 292 | 293 | 294 | 295 | 296 | 297 | 298 | 299 | 300 | 301 | 302 | 303 | 304 | 305 | 306 | 307 | 308 | 309 | 310 | 311 | 312 | 313 | 314 | 315 | 316 | 317 | 318 | 319 | 320 | 321 | 322 | 323 | 324 | 325 | 326 | 327 | 328 | 329 | 330 | 331 | 332 | 333 | 334 | 335 | 336 | 337 | 338 | 339 | 340 | 341 | 342 | 343 | 344 | 345 | 346 | 347 | 348 | 349 | 350 | 351 | 352 | 353 | 354 | 355 | 356 | 357 | 358 | 359 | 360 | 361 | 362 | 363 | 364 | 365 | 366 | 367 | 368 | 369 | 370 | 371 | 372 | 373 | 374 | 375 | 376 | 377 | 378 | 379 | 380 | 381 | 382 | 383 | 384 | 385 | 386 | 387 | 388 | 389 | 390 | 391 | 392 | 393 | 394 | 395 | 396 | 397 | 398 | 399 | 400 | 401 | 402 | 403 | 404 | 405 | 406 | 407 | 408 | 409 | 410 | 411 | 412 | 413 | 414 | 415 | 416 | 417 | 418 | 419 | 420 | 421 | 422 | 423 | 424 | 425 | 426 | 427 | 428 | 429 | 430 | 431 | 432 | 433 | 434 | 435 | 436 | 437 | 438 | 439 | 440 | 441 | 442 | 443 | 444 | 445 | 446 | 447 | 448 | 449 | 450 | 451 | 452 | 453 | 454 | 455 | 456 | 457 | 458 | 459 | 460 | 461 | 462 | 463 | 464 | 465 | 466 | 467 | 468 | 469 | 470 | 471 | 472 | 473 | 474 | 475 | 476 | 477 | 478 | 479 | 480 | 481 | 482 | 483 | 484 | 485 | 486 | 487 | 488 | 489 | 490 | 491 | 492 | 493 | 494 | 495 | 496 | 497 | 498 | 499 | 500 | 501 | 502 | 503 | 504 | 505 | 506 | 507 | 508 | 509 | 510 | 511 | 512 | 513 | 514 | 515 | 516 | 517 | 518 | 519 | 520 | 521 | 522 | 523 | 52 |
|--|---|---|---|---|---|---|---|---|---|-----|----|
|--|---|---|---|---|---|---|---|---|---|-----|----|

[illegible][illegible][illegible]

1

2

ATS

MAD-0452
=====

4

DUMP
EVENT
HBR

ΔMA-048(ON)

LBR

203:16:00 05 10 15 20 25 203:16:30
172:00

1

2

ATS

MAD-0452

BUI-0610

4

DUMP
EVENT
HBR

ΔMA-048(OFF)

LBR

203:16:30 35 40 45 50 55 203:17:00
172:30

1

2

3

4

DUMP
EVENT
HBR

ΔREV 106

LBR

203:17:00 05 10 15 20 25 203:17:30
173:00

203:16:00

173:10 CTE

203:17:30

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

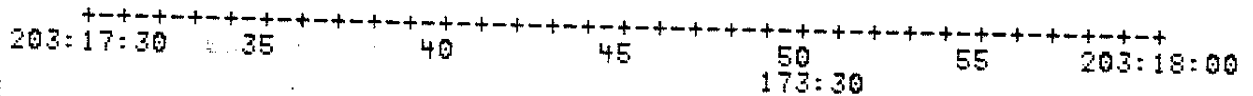
BLOCK NO:30 GMT DAY NO:203 (67MS TIME ERROR) PAGE:1648

[illegible]

1
2
3
4

DUMP
EVENT
HBR

LBR



1
2
3
4

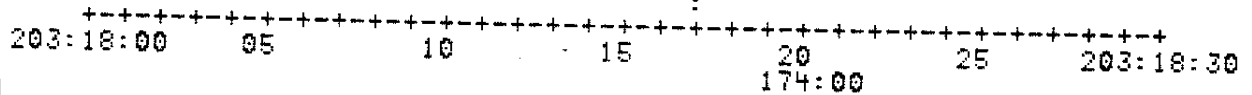
MAD-0454

BUI-0611

DUMP
EVENT
HBR

ΔMA-048(ON) ΔMA-048(OFF)

LBR

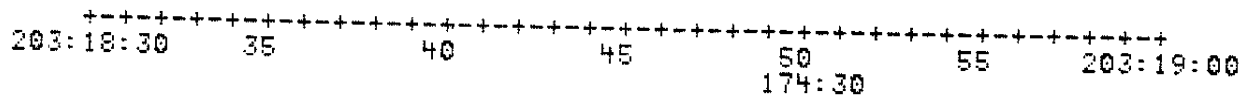


1
2
3
4

DUMP
EVENT
HBR

* BLOCK 31

LBR



203:17:30

174:40 CTE

203:19:00

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO: 31

GMT DAY NO:203 (67MS. TIME ERROR)

PAGE: 165A

BLOCK NO: 31 GMT DAY NO: 203 (87MS TIME ERROR) PAGE: 1000

| ***** | | | | | | | |
|-------|------|------|-----------|-----------|------|-----|----------|
| SITE | | DATA | GMT | GMT | BIT | R/T | REMARKS: |
| TAPE | SITE | REQ | FROM | TO | | OR | |
| NO. | | NO. | HR:MN:SEC | HR:MN:SEC | RATE | D/T | |
| ***** | | | | | | | |

| | | | | | | | |
|-----|---------|-------|----------|----------|---|-----|--------------------|
| 612 | ATS/BUI | AS160 | 20:45:26 | 20:47:32 | 4 | R/T | ON AT 203:20:50:00 |
|-----|---------|-------|----------|----------|---|-----|--------------------|

| | | | | | | |
|-----|---------|------|----------|----------|---|-----|
| 455 | ATS/MAD | 4035 | 20:49:54 | 20:52:33 | 4 | R/T |
|-----|---------|------|----------|----------|---|-----|

| | | | | | | | |
|-----|---------|-------|----------|----------|---|-----|-----------------|
| 612 | ATS/BUI | AS160 | 20:49:05 | 20:52:33 | 4 | R/T | BETTER THAN MAD |
|-----|---------|-------|----------|----------|---|-----|-----------------|

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|-----|---------|------|----------|----------|---|-----|
| 455 | ATS/MAD | 4035 | 20:54:51 | 21:11:32 | 4 | R/T |
|-----|---------|------|----------|----------|---|-----|

| | | | | | | | |
|-----|---------|-------|----------|----------|---|-----|-----------------|
| 612 | ATS/BUI | AS160 | 20:54:48 | 21:29:23 | 4 | R/T | BETTER THAN MAD |
|-----|---------|-------|----------|----------|---|-----|-----------------|

| | | | | | | | |
|-----|---------|------|----------|----------|---|-----|---------------------|
| 455 | ATS/MAD | 4035 | 21:14:00 | 21:29:23 | 4 | R/T | OFF AT 203:21:30:00 |
|-----|---------|------|----------|----------|---|-----|---------------------|

| | | | |
|---|---|---|---|
| 1 | 2 | 3 | 4 |
| 5 | 6 | 7 | 8 |

| | 1 | 2 | 3 | 4 |
|---|---|---|---|---|
| 1 | 1 | | | |
| 2 | | 1 | | |
| 3 | | | 1 | |
| 4 | | | | 1 |

| | | | |
|---|---|---|---|
| 1 | 2 | 3 | 4 |
|---|---|---|---|

100

100

100

10 20 30 40 50 60 70 80 90 100

ASTP-TIME LINE (POST-MISSION)

PAGE 165

1

2

ATS

MAD-0455

BUI-0612

4

DUMP
EVENT
HBR

ΔREV 108

ΔMA-048(ON)

LBR

203:20:30 35 40 45 50 55 203:21:00
176:30

1

2

ATS

MAD-0455

BUI-0612

4

DUMP
EVENT
HBR

ΔMA-048
(OFF)

LBR

203:21:00 05 10 15 20 25 203:21:30
177:00

1

4

DUMP
EVENT
HBR

LBR

203:21:30 35 40 45 50 55 203:22:00
177:30

203:20:30

177:40 CTE

203:22:00

ASTP DATA TIMELINE (ACTUAL DATA PROCESSED)

BLOCK NO:31

GMT DAY NO:203 (67MS TIME ERROR)

PAGE:166A

| SITE
TAPE
NO. | SITE | DATA
REQ
NO. | GMT
FROM
HR:MN:SEC | GMT
TO
HR:MN:SEC | BIT
RATE | R/T
OR
D/T | REMARKS: |
|---------------------|------|--------------------|--------------------------|------------------------|-------------|------------------|----------|
| ***** | | | | | | | |

ON AT 203:22:20:00

| | | | | | | | |
|-----|---------|------|----------|----------|---|-----|--|
| 456 | ATS/MAD | 4036 | 22:15:58 | 22:17:10 | 4 | R/T | |
|-----|---------|------|----------|----------|---|-----|--|

| | | | | | | | |
|-----|---------|-------|----------|----------|---|-----|-----------------|
| 613 | ATS/BUI | AS161 | 22:15:58 | 22:17:10 | 4 | R/T | BETTER THAN MAD |
|-----|---------|-------|----------|----------|---|-----|-----------------|

| | | | | | | | |
|-----|---------|------|----------|----------|---|-----|--|
| 456 | ATS/MAD | 4036 | 22:17:25 | 22:53:43 | 4 | R/T | |
|-----|---------|------|----------|----------|---|-----|--|

| | | | | | | | |
|-----|---------|-------|----------|----------|---|-----|-----------------|
| 613 | ATS/BUI | AS161 | 22:17:25 | 23:03:38 | 4 | R/T | BETTER THAN MAD |
|-----|---------|-------|----------|----------|---|-----|-----------------|

| | | | | | | | |
|-----|---------|------|----------|----------|---|-----|--|
| 456 | ATS/MAD | 4036 | 22:53:57 | 23:03:38 | 4 | R/T | |
|-----|---------|------|----------|----------|---|-----|--|

OFF AT 203:22:40:00

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: : : :

: : : :

: : : :

1

2

ATS

MAD-0456

BUI-0613

4

DUMP
EVENT
HBR

ΔREV 109

ΔMA-048(ON)

LBR

203:22:00 05 10 15 20 25 203:22:30
178:00

1

ATS

MAD-0456

BUI-0613

2

4

DUMP
EVENT
HBR

ΔMA-048(OFF)

LBR

203:22:30 35 40 45 50 55 203:23:00
178:30

1

2

ATS

MAD-0456

BUI-0613

4

DUMP
EVENT
HBR

* BLOCK 32

LBR

203:23:00 05 10 15 20 25 203:23:30
179:00

203:22:00

179:10 CTE

203:23:30