

Data Set Catalog # 221

OSO - 6
Experiment Aspect Tapes
69-068A-06A 3 tapes

Flux Vs Time Data Tapes
69-068A-06B 9 tapes

2 Minute Averages
69-068A-06C 1 tape

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 This inventory information is now no longer maintained in the DSCs, but is now managed in the inventory part of the NSSDC information system.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

OSO-6

EXPERIMENT ASPECT TAPES

69-068A-06A

THIS DATA SET HAS BEEN RESTORED. ORIGINALLY THERE WERE THREE TAPES AT 9-TRACK, 800 BPI. THESE TAPES HAD STANDARD LABELS AND CONTAINED 3 FILES EACH. THE RESTORED TAPE IS 9-TRACK, 6250 BPI AND HAS 3 FILES TOTAL, NONE OF WHICH ARE STANDARD LABEL FILES. THE TAPES WERE CREATED ON AN IBM 360 COMPUTER. THE DR AND DS NUMBERS ALONG WITH THE CORRESPONDING D NUMBERS AND THE TIME SPANS ARE AS FOLLOWS:

DR#	DS#	D#	FILES	TIME SPAN
DR02744	DS02744	D10774	1	08/11/69 - 12/31/69 (a)
		D10775	2	01/01/70 - 04/29/70 (b)
		D10776	3	04/14/70 - 08/08/70

- (a) D010774 - 28 read errors, records 5, 18, 34, 259, 628, 644-661, 663, 666, 667, 670, 673, File 1
(b) D010775 - 2 read errors, records 222, 4938, File 1

OSO 6

FLUX VS TIME DATA TAPES

69-068A-06B

THIS DATA SET HAS BEEN RESTORED. ORIGINALLY IT CONTAINED NINE 9-TRACK, 800 BPI TAPES WRITTEN IN BINARY. THERE ARE TWO RESTORED TAPES. THE DR AND DS TAPES ARE 9-TRACK, 6250 BPI. THE ORIGINAL TAPES WERE CREATED ON AN IBM 360 COMPUTER. THE DR AND DS NUMBERS ALONG WITH THE CORRESPONDING D NUMBERS AND THE TIME SPANS ARE AS FOLLOWS:

DR#	DS#	D#	FILES	TIME SPAN
DR002634	DS002634	D010785	1	08/14/69 - 09/25/69
		D010784	2	09/25/69 - 11/11/69
		D010783	3	11/11/69 - 12/24/69
		D010782	4	12/24/69 - 02/04/70
DR002635	DS002635	D010781	1	02/04/70 - 03/22/70
		D010780	2	03/23/70 - 05/05/70
		D010779	3	05/05/70 - 06/15/70
		D010778	4	06/15/70 - 08/01/70
		D010777	5	08/01/70 - 10/03/70

2 MINUTE AVERAGES

69-068A-06C

THIS DATA SET HAS BEEN RESTORED. THE ORIGINAL TAPE WAS A 9-TRACK, 800 BPI, BINARY STANDARD LABEL TAPE WITH ONE DATA FILE. THE RESTORED TAPE IS 9-TRACK, 6250 BPI, BINARY WITH NO STANDARD LABEL CREATED ON AN 360 COMPUTER. THE DR AND DS NUMBER ALONG WITH THE CORRESPONDING D NUMBER AND THE TIME SPAN IS AS FOLLOWS:

DR#	DS#	D#	TIME SPAN
DR02770	DS02770	D10786	08/15/69 - 09/29/70

REQ. AGENT
WTJ

RASH NO.
RB3142

ACQ. AGENT
CDW

OSO-6

EXPERIMENT ASPECT TAPES

69-068A-06A

This data set consists of 3, 800 BPI, Binary data tapes that were produced on the IBM/360. The 'D' tapes are 9 track and the 'C' tapes 7 track. Both sets of tapes have standard labels and contain 1 data file.

<u>D#</u>	<u>C#</u>	<u>START</u>	<u>STOP</u>
D-10774	C-09060	8/11/69	12/31/69
D-10775	C-09061	1/01/70	4/29/70
D-10776	C-09062	4/14/70	8/08/70

Experiment Aspect Tapes

<u>Words</u>	<u>Description</u>	<u>Format</u>
1	Logical control word	
2-51	Day (GMT)	F
52	Logical control word	
53-95	Day (GMT)	F
96-102	Not Used	
103	Logical control word	
104-153	Hour (GMT)	F
154	Logical control word	
155-197	Hour (GMT)	F
198-204	Not Used	
205	Logical control word	
206-255	Geodetic Latitude (sub-satellite point)	F
256	Logical control word	
257-299	Geodetic Latitude (sub-satellite point)	F
300-306	Not Used	
307	Logical control word	
308-357	Geodetic Longitude (sub-satellite point)	F
358	Logical control word	
359-401	Geodetic Longitude (sub-satellite point)	F
402-408	Not Used	
409	Logical control word	
410-459	ALTITUDE (KM)	F
460	Logical control word	
461-503	ALTITUDE (KM)	F
504-510	Not Used	
511	Logical control word	
512-561	Declination of Solar Vector	F
562	Logical control word	
563-605	Declination of Solar Vector	F
606-612	Not Used	
613	Logical control word	
614-663	McIllwaine's "L" Parameter (Earth Radii)	F
664	Logical control word	
665-707	McIllwaine's "L" Parameter (Earth Radii)	
708-714	Not Used	
715	Logical control word	
716-765	Magnetic Field Strength (GAMMA)	F
766	Logical control word	
767-809	Magnetic Field Strength (GAMMA)	F
810-816	Not Used	
817	Logical control word	

<u>Words</u>	<u>Description</u>	<u>Format</u>
818-867	Pitch (Degrees)	F
868	Logical control word	
869-911	Pitch (Degrees)	F
912-913	Not Used	
919	Logical control word	
920-969	Delta τ	F
970	Logical control word	
971-1013	Delta τ	F
1014-1020	Not Used	
1021	Logical control word	
1022-1071	Spin (Rotations per second)	F
1072	Logical control word	
1073-1115	Spin (Rotations per second)	F
1116-1122	Not Used	

The First word in each Physical record is a block control word. Delta τ should be ignored. An Fill data is stored as 66666.6.

DEPARTMENT OF PHYSICS
UNIVERSITY COLLEGE LONDON
MULLARD SPACE SCIENCE LABORATORY

Telephone: Forest Green 292
Telex 83185

20th., December, 1972.

Holmbury St Mary
Dorking · Surrey

Dear Dr Wende,

I have just remembered that I was going to send you details of the data contained on the Aspect Tapes for our OSO-6 experiment. The printout I left with you last September showed the first of up to 100 lines of aspect information in each tape record. The Headings at the top of each column should be:

Day (GMT)
Hour (GMT)
Geodetic Latitude (sub satellite point)
Geodetic Longitude "
Altitude (km)
Declination of Solar Vector
McIllwaine's "L" Parameter (Earth Radii)
Magnetic Field Strength (Gamma)
Pitch (Degrees)
Delta t
Spin (Rotations per Second)

where the Hour column data is actually on the tape in seconds (and divided by 3600 for the printout). The column headed Delta t should be ignored; it was kept as originally we thought we might use it to correlate the times with the actual data, a different approach was eventually used and without going back to the original data dump tapes this parameter is useless. Fill data is stored as 66666.6.

I hope the above is sufficiently clear to enable you to proceed. If I can help with any further information please let me know and I'll try to be more prompt about replying!

Yours sincerely

R Uribe
R Uribe.

National Space Science Data Center,
Goddard Space Flight Center,
Greenbelt, Maryland. .


```
//UCAS01M2 JOB (100,RMT2,1,C3),'ASPECT TAPES',CLASS=N,MSGLEVEL=1,
//          TIME=(0001,00)
***SETP TAPE9 OSOBT=U655 FILEPROTECT STDLABEL
// EXEC FORTRAN
XX          PROC      CODE=EBCDIC,MAP=NOMAP,OBJ=NODECK,SOURCE=SOURCE,
XX          LKED=LINKEDIT,LKSIZE=100K,PRECSN=SINGLE,CYLS=3
XXC         EXEC      PGM=IEYFORT,PARM='ID,&CODE,&MAP,&OBJ,&SOURCE'
IEF653I SUBSTITUTION JCL - PGM=IEYFORT,PARM='ID,EBCDIC,NOMAP,NODECK,SOURCE'
XXSYSPRINT DD          SYSOUT=A
XXSYSPPUNCH DD         SYSOUT=B
XXSYSLIN   DD          DSN=&SYSUT4,DISP=(NEW,PASS),
XX          UNIT=DRUM,SPACE=(CYL,(&CYLS,2)),
IEF653I SUBSTITUTION JCL - UNIT=DRUM,SPACE=(CYL,(3,2)),
XX          DCB=(RECFM=FBS,LRECL=80,BLKSIZE=800)
//C.SYSIN DD *
```

X JOB 586
HASPHASP

```
*****
* UCAS01M2 STEP C          PGM=IEYFORT  TOOK          6.06SEC *
* SIZE= 76KB  COND=CODE=0  CPU=TIME USED          0.54SEC *
*****
```

```
XXL         EXEC      PGM=&LKED,PARM='LIST,MAP,SIZE=(&LKSIZE,42K)',
IEF653I SUBSTITUTION JCL - PGM=LINKEDIT,PARM='LIST,MAP,SIZE=(100K,42K)',
XX          COND=(B,LT,C)
XXSYSPRINT DD          SYSOUT=A
XXSYSUT1   DD          DSN=&SYSUT1,DISP=NEW,
XX          UNIT=DRUM,SPACE=(CYL,(&CYLS,2))
IEF653I SUBSTITUTION JCL - UNIT=DRUM,SPACE=(CYL,(3,2))
XXSYSLIN   DD          DSN=&SYSUT4,DISP=(OLD,DELETE)
XX          DD          DDNAME=SYSIN
XXMODLIB   DD          DSN=UCMODLIB,DISP=SHR
XXSYSMOD   DD          DSN=&GOSET(MAIN),DISP=(NEW,PASS),
XX          UNIT=DRUM,SPACE=(CYL,(&CYLS,2,1))
IEF653I SUBSTITUTION JCL - UNIT=DRUM,SPACE=(CYL,(3,2,1))
XXSYSLIB   DD          DSN=SYS1.FORTLIB,DISP=SHR
XX          DD          DSN=SYS1.FORTSSP3,&PRECSN,DISP=SHR,UNIT=2314,
IEF653I SUBSTITUTION JCL - DSN=SYS1.FORTSSP3,SINGLE,DISP=SHR,UNIT=2314,
XX          VOL=SER=4S112
```

```
*****
* UCAS01M2 STEP L          PGM=LINKEDIT TOOK          18.34SEC *
* SIZE=102KB  COND=CODE=0  CPU=TIME USED          0.54SEC *
*****
```

```
XXG         EXEC      PGM=*,L.SYSLMOD,COND=((4,LT,C),(4,LT,L))
XXFT03F001 DD          DDNAME=PRINT
XXFT05F001 DD          DDNAME=SYSIN
XXFT06F001 DD          SYSOUT=A,DCB=(RECFM=UA,BLKSIZE=133)
XXFT07F001 DD          SYSOUT=B
XXPRINT    DD          SYSOUT=A,DCB=(RECFM=FA,LRECL=133)
```

```
//G.FT15F001 DD UNIT=TAPE9,LABEL=(1,SL,,IN),DISP=OLD,
// DCB=(RECFM=VBS,LRECL=204,BLKSIZE=1636,DEF=2),
// DSN=OSOG.ASPECT.Y1970,VOL=(PRIVATE,SER=OSOBT)
//
```

COMPLETION CODE = SYSTEM=222 USER=0000

```
IEF242I ALLOC. FOR UCAS01M2 G AT AREND
IEF237I 193 ALLOCATED TO PGM=*,DD
IEF237I 031 ALLOCATED TO FT03F001
IEF237I 032 ALLOCATED TO FT06F001
IEF237I 040 ALLOCATED TO FT07F001
IEF237I 0C3 ALLOCATED TO FT15F001
IEF285I SYS72234.T140430.RF000.UCAS01M2.GOSET
IEF285I VOL SER NOS= SYS110.
```

PASSED

```
0001      REAL WORD(100,11)
0002      100  READ(15,END=1000) WORD
0003      WORD(1,2)=WORD(1,2)/3600.0
0004      WRITE(6,1) (WORD(1,I),I=1,11)
0005      GOTO 100
0006      1000 STOP 1000
0007      1    FORMAT(11(1X,F9.3))
0008      END
```

431F0D8F431EF393431E DA92431EC2BD431EAC2F431E9713431E8393431E71D431E61FF431E5438431E4EA3431E3F22431E
3892431E344E431E32AF431E33C5431E37A0431E3E49431E47C3431E540D431E631E431E74EA431E895E431EA060431EB9D1
431ED590431EF371431F1349431F34E5431F5810431F7C91431FA22E431FC8A8431FEFC14320173A43203ED2432066484320
8D664320B3E74320D9934320FE33432121924321437F432163CD4321825343219EEC4321B97A4321D1E04321E8084321FBE1
43220D5F43221C7A4322292D4322337943223B65432240F74322443D432245444322441F432240E143223BA1432234764322
2B78432220C043221468432206894321F73C4321E6994321C4B8C329AAA747F0526218554350A0008B500001495042101D93
42101DE642101D7942101D6C42101D5F421C1D5242101D4542101D3842101D2B42101D1E42101D1142101D0C442101CF74210
CEB42101CDE42101CD142101CC442101CB742101CAAC329AAA7C329AAA7C329AAA7C329AAA7C329AAA74210212A4210211D
4210211042102103421020F6421020E5421020DC421020CF421020C2421020B5421020A84210209B421020EE421020E14210
2075421020684210205B4210204E4210204142102034421020274210201A4210200D4210200042101FF342101FE642101FD9
42101FCC42101FBB42101FB242101FA642101F9942101F8C42101F7F42101F7242101F6542101F5842101F4B42101F3E4210
1F3142101F2442101F1742101F0A42101EFD42101EF042101EE342101ED642101ECA42101EBD42101EB042101EA342101E96
42101E8942101E7C42101E6F42101E6242101E5542101E4842101E3B42101E2E42101E2142101E1442101E0742101DFA4210
1DED42101DE142101DD442101DC742101DBA42101DAD42101DA0C329AAA7F6AE47F0F35A0670910FF1A54710F39C4111C579
411110904111444441117A554111C07D4111216C141127E524112FBED4113382541142CF3

06640000066003004114EA30411FC2D54116B95C4117D019411908E3411A628F411BDA27411D6720411EFC3CC329AAA7C329
AAA7C329AAA7C329AAA7C329AAA7411EC14E411D5E99411BE857411A71A341190B354117C05C41169765411592034114AF81
4113ED40411348104112EC4A411246AC4111E3DE411191F441114F4941111BAA4110F6014110DDF44110D4C24110D9B54110
EC6441110D214111384A411176804111BE8641121505411279C14112EE0541137369411409F74114B50041157443411E48EF
411732BF4118306941193F99411A5C9B411B8267411CA9BF411DC8D9411ED736411FC8634120918041212952412186574121
A2D641217E6B41211CC84120802E411FB2D1411EBE3E411DAD0A411C89D6411B5D8B411A313541190A574117EDFF4116E0B7
4115E5864114FEE441142F14411376B04112D7124112503C4111E20741118B8941114B4741111F034111057A4110FD58C329
AAA7307C18E2980D30841EE0E00007FED20044653CAC44651E404465A9BD4466DAD64468AA94446B0F5E446DFD2E447165DB
44753950447965C9447DD7AA44827558448732F5448BEA334490826E4494DD154498DA7D449C5AFA449F404FC329AAA7C329
AAA7C329AAA7C329AAA7C329AAA7448E37CE448AE9BE4487AE234484957C4481A80B447EE732447C504A4479DF6A44775169
447564D444735A0144717250446FB0E4446E17E7446CAB07446B6E50446A662244699661446901294468A55844687F5E4468
87974468B77E44690B8E446986DE446A3501446B29BD446C7E5A446E4D084470AB974473A6D144773FBE447B6B3D44E013AF
44851BDA448A621A448FC32F44951C56449A4CB8449F364B44A3BE6A44A7CE4444AB533944AE3F2444B0887544B22A1A44B3
231944B375F144B327D044B23FC144BCC5F144AEC32544AC406A44A946FE44A5E06544A2169E449DF46B445985B54454D7F4
448FFA9F448AFF824485FAEF44810390447C31D744779F05447363D9446F9732446C4CCB446994C344677AB744660693C329
AAA7D6D540E4D5C9E34040404040000002C3E5EA0333E8D026F3EB217CE3EBDA35D3EB1F8243E3CAD82BDA67C493D140E43
3B5573913A18C7FD3E26F68C3E3D56573E83BC223E387AB33E50251D3E5EAA423E5EEE903E5EEF1C3E5EEF1CC329AAA7C329
AAA7C329AAA7C329AAA7C329AAA73E4C159F3E2FC50B3E58A2613E8777953E8E45023EC038DE3F1A30523F117C923E91725D
3E2CC0573D3E8CB33C134F033E1C7DC33E58FEDE3F1CEE8F3F13F94B3EE8E5C13EBAB0503E8C23C83E605DDC3E3184AB3D1F
C28C3E1C38063E1B38063E1B38063E1B38063E1B38063E1B38063E1B38063E1B38063E1B38063E1B38063E1B38063E1B3806
3E1B38063E1B38063E1B38063E1B38063E1B38063E1B38063E1B38063E1B38063E1B38063E1B38063E1B38063E1B3806
33063E1B38063E1B38063E1B38063E1B38063E1B38063E1B38063E1B38063E1B38063E1B38063E1B38063E1B38063E1B3806
3F1937B63F175C4A3F11418E3EEB30913ED6C7A23EBC20B83E8969113E7047CC3E4C592BBE158928DE1652443E117C8CC329
AAA741C0000418354120500C4570F1441A9A411B9A774049077C41E34A7641CC3E7641E53476419E2A6E41E720EE4170166E
41590C6E4142026E412AF86F4113EC6F421E868641DE9A6E41C4906E41AD886E41967C6E417F706E451046AAC0AAA9BC0AA
AA9BC0AAA9BC0AAA9BC0AAA9B41BCE27E41A5D87E418ECC7E4177C27E4160B87E4149AE7E4132A480411B9A804049C800
41E34A7E41CC3E7E41B5347E419E2A7E4187207E4170167E41590C7E4142027E412AF8804113EC8041F2A47E41DB5A7E41C4
907E41AD867EC2155098417F707A4168667641515C76413A52794123487740C3E77C412AF87641D3EC7641BCE27641A5D87E
418ECE764177C4764160BA764149B07642128667411B9C77404906FD41E3486E41CC3E6E41B5346E419E286E41E71E6E4170
146E41590A6E4142006E412AF66F4113EC6F41F2A66E41DB9C6E41C4906E41AD866E41967C6E417F726E4168687E41515E7E
413A547A41234A7A40C3E79D41EAF67641D3EC7641BCE27641A5D87E418ECC764177C2764160B87E4149AE764132A477C0AA
AA9BD6C4470C0000004C50F044980000000C4084F8F54084F8644084F8104084F92F4084F7C54084F76A40E4F72F40E4F7C8
4084F6224084F7034084F6424084F5F14084F3554084F6304084F50B4C84F+DC4084F4BD

REC 9, LENGTH 1636

01540000015002004084F6D14084F1A0C329AAA7C329AAA7C329AAA7C329AAA74084F0F74084F0DA4C84F1574084
F1384084F03F4084EECC4084F0164084F0584084EF444084EEF74084EF6F4084EF5F4084EE7D4084F3094C84F02740E4F054
4084EE534084F0474084EEF34084F05A4084F0B94084EFA44084F1A040831D2C40801054407C613D407972D04075EC354072
C1EB406FE59C406F43D5406F3E25406F42AD406F46F1406F4B01406F5125406F532E406F54A7406F56AC406F5949406F5A03
406F5BAA406F5C9D406F5D00406F5D1E406F6027406F5F5A406F6125406F626E406F64A1406F67A0406F68F9406F6CD2406F
70FA406F7408406F78B0406F7A9E406F7EAA406F7EAA4084FCAC4084FAEF4084FA524084FA9E4084FB7F40E4FAA140E4FB84
4084FBC14084FB9640E4F9234084F94E4084F974C329AAA7000000010000000170000320C0020000

REC 10, LENGTH 340

PEC

80

REC

80

Dupe of D-10776

START

STOP

USO-6

69-068A-06B

FLUX VS TIME DATA TAPES

This data set consists of 9 800 BPI, Binary data tapes that were produced on the IBM/360. Both the 'D' and 'C' tapes are 9 track and contain one data file with standard labels.

<u>D#</u>	<u>C#</u>	<u>START</u>	<u>STOP</u>
D-10777	C-09312	8/01/70	10/03/70
D-10778	C-09313	6/15/70	8/01/70
D-10779	C-09314	5/05/70	6/15/70
D-10780	C-09315	3/23/70	5/05/70
D-10781	C-09316	2/04/70	3/22/70
D-10782	C-09317	12/24/69	2/04/70
D-10783	C-09318	11/11/69	12/24/69
D-10784	C-09319	9/25/69	11/11/69
D-10785	C-09320	8/14/69	9/25/69

OSO-6

FLUX vs TIME DATA

69-068A-06B

<u>CHARACTERS</u>	<u>ID</u>	<u>DESCRIPTION</u>	<u>FORMAT</u>
1- 4	BCW	Block control word	I4
5- 8	LCW	Logical Control word	I4
9-10	NDATA	Sequence number of data block	I2
11-12	IROTMX	Subscript value of various items- see line	I2
13-14	NRE	Mask value for status arrays	I2
15-16	DAWN	Value of status arrays subscript I2 at which satellite left the Earths shadow. All data is valid	
17-18	DUSK	Value of status arrays subscript I2 at which satellite enters the Earths sundown. All data is valid	
19-20	LOSTN	Value of status arrays subscript I2 at which satellite left the Earths shadows. Some data is invalid.	
21-22	LOSTK	Value of status arrays subscript I2 at which satellite enters the Earths shadow. Some data is invalid	
23-30	DAYTM	GMT (sec's) - when satellite left the earths shadow.	F8
31-38	NGTTM	GNT (sec's) when satellite entered the Earths shadow	F8
39-46	NAME	Serial number of original NASA tape	A8
47-48	DAY	Day year	I2
49-50	LCW	Logical control word	I4

ID
LINE

FORMAT
I2

DESCRIPTION:

Line is 14 arrays with 'IROTMX' elements in each. Arrays 1 thru 12 contain the recorded proton count per look for each of the 12 wavelengths, 13 contains the position in the 'Main Frame' data of the 304A proton count and array 14 contains the position in the 'Main Frame' data of the scattered light count.

<u>ID</u>	<u>Description</u>	<u>FORMAT</u>
ILOTS	Relates the subscript value of the status data in Jil, Temp, Volt1, Volt2, Volt3, Spin, Pitch and GMT to the subscript value of line. e.g. Temp (127) relates to the data in line (m,n) where M = ILOTS (127).	I2
JIL	Contains the position of the first word of Main Frame data in line.	I2
GMT	Contains the time when the data in Main Frame word 1 was read from counters. (seconds)	F8
SPIN	Contain the spin rate in revs. per. second	F4
PITCH	Contains the absolute pitch in degrees of the satellite.	F4
TEMP	Contain the coded temperature gradient across the experiment package	I2
VOLT1	Contains the coded high voltage supply currents	I2
VOLT2	Contains the coded high voltage supply currents	I2
VOLT3	Contains the coded high voltage supply currents	I2

These 9 words are repeated 'NRE' times

```

//UCAS01MG JOB (1111,RMT2,05,01), 'WRITER', CLASS=N, MSGLEVEL=1
***SETP TAPE9 OSOG09=U647 FILEPROTECT STDLABEL
// EXEC FORTRAN
XX      PROC      CODE=ERCDIC,MAP=NOMAP,OBJ=NODECK,SOURCE=SOURCE,      XUCL00001
XX      LKED=LINKEDIT,LKSIZE=100K                                     UCL00002
XXC     EXEC      PGM=IEYFORT,PARM='ID,&CODE,&MAP,&OBJ,&SOURCE'         UCL00003
IEF653I SURSTITUTION JCL = PGM=IEYFORT,PARM='ID,ERCDIC,NOMAP,NODECK,SOURCE'
XXSYSPRINT DD      SYSOUT=A                                           UCL00004
XXSYSPUNCH DD      SYSOUT=B                                           UCL00005
XXSYSLIN  DD      DSNNAME=&SYSUT4,DISP=(NEW,PASS),                     XUCL00006
XX      UNIT=DRUM,SPACE=(CYL,(1,2)),                                  XUCL00007
XX      DCR=(RECFM=FBS,LRECL=80,BLKSIZE=800)                         UCL00008
//C.SYSIN DD *

```

```

*****
* UCAS01MG STEP C      PGM=IEYFORT  TOOK      6.96SEC *
* SIZE= 84KB  COND=CODE=0  CPU-TIME USED      1.71SEC *
*****

```

```

XXL     EXEC      PGM=&LKED,PARM='LIST,MAP,SIZE=(&LKSIZE,42K)',      XUCL00009
IEF653I SURSTITUTION JCL = PGM=LINKEDIT,PARM='LIST,MAP,SIZE=(100K,42K)',
XX      COND=(B,LT,C)                                               UCL00010
XXSYSPRINT DD      SYSOUT=A                                           UCL00011
XXSYSLIN  DD      DSNNAME=&SYSUT1,DISP=NEW,                           XUCL00012
XX      UNIT=DRUM,SPACE=(CYL,(2,2))                                UCL00013
XXSYSLIN  DD      DSNNAME=&SYSUT4,DISP=(OLD,DELETE)                  UCL00014
XX      DD      DDNAME=SYSIN                                         UCL00015
XXMODLIB  DD      DSNNAME=UCMODLIB,DISP=SHR                          UCL00016
XXSYSLMOD  DD      DSNNAME=&GOSET(MAIN),DISP=(NEW,PASS),             XUCL00017
XX      UNIT=DRUM,SPACE=(CYL,(2,2,1))                               UCL00018
XXSYSLIN  DD      DSNNAME=SYS1.FORTLIB,DISP=SHR                     UCL00019

```

```

*****
* UCAS01MG STEP L      PGM=LINKEDIT TOOK      11.02SEC *
* SIZE=100KB  COND=CODE=0  CPU-TIME USED      0.65SEC *
*****

```

```

XXC     EXEC      PGM=*,L,SYSLMOD,COND=((4,LT,C),(4,LT,L))          UCL00020
XXFT03F001 DD      DDNAME=PRINT                                       UCL00021
XXFT05F001 DD      DDNAME=SYSIN                                       UCL00022
XXFT06F001 DD      SYSOUT=A,DCR=(RECFM=UA,BLKSIZE=133)              UCL00023
XXFT07F001 DD      SYSOUT=B                                           UCL00024
XXPRINT  DD      SYSOUT=A,DCR=(RECFM=FA,LRECL=133)                  UCL00025
//G.FT21F001 DD UNIT=TAPE9,LABEL=(1,SL,,IN),DISP=OLD,
// DCR=(RECFM=VBS,LRECL=6000,BLKSIZE=6004),DSN=OSOG.0ATA.TAPE9,
// VOL=(PRIVATE,SER=OSOG09)
//G.SYSIN DD *
//

```

```

COMPLETION CODE = SYSTEM=222  USER=0000
IEF242I ALLOC. FOR UCAS01MG G      AT AREND
IEF237I 192  ALLOCATED TO PGM=*,DD
IEF237I 030  ALLOCATED TO FT03F001
IEF237I 022  ALLOCATED TO FT05F001
IEF237I 033  ALLOCATED TO FT06F001
IEF237I 040  ALLOCATED TO FT07F001
IEF237I 0C2  ALLOCATED TO FT21F001
IEF285I  SYS71264.T175348.RF000.UCAS01MG.GOSET  PASSED
IEF285I  VOL SER NOS= SYS013.
IEF285I  SYS71264.T175348.RF000.UCAS01MG.R0001253  DELETED
IEF285I  VOL SER NOS=
IEF285I  SYS71264.T175348.RF000.UCAS01MG.R0001250  DELETED
IEF285I  VOL SER NOS=
IEF285I  OSOG.DATA.TAPE9  KEPT
IEF285I  VOL SER NOS= OSOG09.

```

DATA
TAPES
FORMAT


```

*****
* UCAS01MG STEP G          PGM=MAIN      TOOK  4MIN 16.91SEC *
* SIZE= 94KB  COND=CODE=0  CPU-TIME USED  4MIN 10.35SEC *
*****

```

```

*****
* THIS JOB HAS FAILED & IS BEING FLUSHED BY SYSTEM
*****

```

*due to a failed member of the job
being executed*

```

IEF283I  SYS71264.T175348.RE000.UCAS01MG.SYSUT4      NOT DELETED R
IEF283I  VOL SER NOS= 4SCR1 1.
IEF285I  SYS71264.T175348.RE000.UCAS01MG.GOSET      DELETED
IEF285I  VOL SER NOS= SYS013.

```

```

*****
*                               TUE 21 SEP 1971                               *
* JOB UCAS01MG (CLASS N)  STARTED  20HR 34MIN 25.96SEC *
* TOTAL ELAPSED TIME TAKEN                                4MIN 37.09SEC *
* TOTAL C.P.U. TIME TAKEN                                4MIN 12.71SEC *
* DISK I/O COUNT      898                                TAPE I/O COUNT    1337 *
* HASP NUMBER          47                                CARDS READ      76 *
* NOMINAL SIZE        100KB                               LINES PRINTED   1006 *
* PARTITION           P3 (170KB)                         CARDS PUNCHED   NIL *
* LOADPOINT (HEX)     3F020                             A/C UNITS USED   1.707 *
*****

```

```

HASP-II JOB STATISTICS -- 76 CARDS READ -- 1,107 LINES PRINTED -- 0 CARDS PUNCHED -- 4.71 MINUTES EXECUTI

```

```

0001      INTEGER*2 LINE(2000,14),IROTS(500),JIL(500),TEMP(500),
+          VOLT1(500),VOLT2(500),VOLT3(500),
+          NDATA,IROTMX,NRE,DAWN,DUSK,LOSTN,LOSTK,DAY
0002      REAL*4   PITCH(500),SPIN(500)
0003      REAL*8   GMT(500),NAME,DAYTM,NGTTM
C
0004      99      READ(5,10,END=1002) NDATA,NIROTS,NIROTF
0005      100     READ(21,END=1000,FRR=1001)
+          NDATA,IROTMX,NRE,DAWN,DUSK,LOSTN,LOSTK,DAYTM,NGTTM,
+          NAME,DAY
0006      READ(21,END=1000,FRR=1001)
+          ((LINE(J,K),J=1,IROTMX),K=1,14),
+          (IROTS(J),JIL(J),GMT(J),SPIN(J),PITCH(J),TEMP(J),
+          VOLT1(J),VOLT2(J),VOLT3(J),J=1,NRE)
0007      IF(NDATA.NE.NDATAN) GOTO 100
0008      IF(NIROTS.GE.IROTMX) GOTO 55
0009      LINECT=0
0010      L=1
0011      IO=GMT(1)/3600.0
0012      IDAY=DAY
0013      IF(NIROTF.GT.IROTMX) NIROTF=IROTMX
0014      50      IF(IROTS(L).GE.NIROTS) GOTO 51
0015      L=L+1
0016      IF(L.GT.NRE) GOTO 54
0017      GOTO 50
0018      51      CONTINUE
0019      DO 101 IROT=NIROTS,NIROTF
0020      IF(LINECT/45*45-LINECT.EQ.0) WRITE(6,2) IDAY
0021      IF(IROT.EQ.IROTS(L)) GOTO 102
0022      WRITE(6,1) (LINE(IROT,IL),IL=1,14)
0023      LINECT=LINECT+1
0024      GOTO 101
0025      102     CONTINUE
0026      IF(DAWN.EQ.L) WRITE(6,11)
0027      IF(DUSK.EQ.L) WRITE(6,12)
0028      IF(LOSTN.EQ.L) WRITE(6,13)
0029      IF(LOSTK.EQ.L) WRITE(6,14)
0030      I1=GMT(L)/3600.0
0031      I2=(GMT(L)-I1*3600)/60.0
0032      F=(GMT(L)-I1*3600-I2*60)
0033      IF(I1.LT.IO) IDAY=IDAY+1
0034      WRITE(6,1) (LINE(IROT,IL),IL=1,14),JIL(L),I1,I2,F,
+          PITCH(L),SPIN(L),TEMP(L),VOLT1(L),VOLT2(L),VOLT3(L)
0035      LINECT=LINECT+1
0036      L=L+1
0037      101     CONTINUE
0038      GOTO 99
0039      54      WRITE(6,57) NDATA
0040      GOTO 99
0041      55      WRITE(6,59) NDATAN
0042      GOTO 99
0043      1000    STOP 1000
0044      1001    STOP 1001
0045      1002    STOP 1002

```

is the desired orbit - if not read in next - re-check.

does the row of 'LINE' correspond to the station information

DAWN = L when 050.6 when leaves Earth's shadow - all data received is OK

DUSK = L " enters " " "

LOSTN = L " leaves " " "

LOSTK = L " enters " " "

but some sat data is faulty - once timing maxes out

GMT is stored in seconds - decodes to hours, minutes, seconds

check midnight has not been passed

DAY IS 240

[illegible]

pitch & spin coaching does not
operate correctly at dawn and dusk - ignore

1 no data recorded for this week
data received but invalid

2(f) *cloud. alt* *SCAT. layer*

DAY 15 240

304	180	256	835	CON	ELT	SCT	584	537	991	1175	LYA	ISURS	IL	HR	MT	SFC	PITCH	SPIN	TEMP	---VOLTS---
0	0	0	0	0	9999	0	0	0	0	0	9999	20	35							
0	0	0	0	0	2	0	0	0	0	0	2	41	47	9	11	17	22.458	-0.4	0.553	132 251 248 163
0	0	0	0	0	2	0	0	0	0	0	9999	5	11							
0	0	0	0	0	1111	0	0	0	0	0	8888	17	22							
0	0	0	0	0	8888	0	0	0	0	0	8888	28	34							
0	0	0	0	0	8888	0	0	0	0	0	9999	40	46	10	11	17	37.818	-0.4	0.553	132 251 248 163
0	0	0	0	0	2	0	0	0	0	0	2	4	10							
0	0	0	0	0	2	0	0	0	0	0	9999	16	22							
0	1	0	0	0	9999	0	0	0	0	0	1111	28	34							
0	0	0	0	0	8888	0	0	0	0	0	8888	39	45	11	11	17	53.178	-0.4	0.521	132 251 248 163
0	0	0	0	0	8888	0	0	0	0	0	8888	3	9							
0	0	0	0	0	9999	0	0	0	0	0	2	15	21							
0	0	0	0	0	2	0	0	0	0	0	2	27	33							
0	0	0	0	0	9999	0	0	0	0	0	9999	39	45	11	11	18	8.538	-0.2	0.521	132 251 248 162
0	0	0	0	0	1111	0	0	0	0	0	8888	3	8							
0	0	0	0	0	8888	0	0	0	0	0	8888	14	20							
0	0	0	0	0	8888	0	0	0	0	0	9999	26	32							
0	0	0	0	0	2	0	0	0	0	0	2	38	44	12	11	18	23.898	-0.2	0.521	131 251 248 163
0	0	0	0	0	2	0	0	0	0	0	9999	2	8							
0	0	0	0	0	1111	0	0	0	0	0	8888	14	19							
0	0	0	0	0	8888	0	0	0	0	0	8888	25	31							
0	0	0	0	0	8888	0	0	0	0	0	9999	37	43							
0	0	0	0	0	9999	0	0	0	0	0	2	1	7	1	11	18	39.258	-0.2	0.521	132 251 248 163
0	0	0	0	0	3	0	0	0	0	0	2	13	19							
0	0	0	0	0	9999	0	0	0	0	0	1111	25	31							
0	0	0	0	0	8888	0	0	0	0	0	8888	26	42							
0	0	0	0	0	8888	0	0	0	0	0	8888	48	6	2	11	18	54.618	-0.2	0.521	132 251 248 162
0	0	0	0	0	9999	0	0	0	0	0	2	12	18							
0	0	0	0	0	2	0	0	0	0	0	2	24	30							
0	1	0	0	0	9999	0	0	0	0	0	9999	26	42							
0	0	0	0	0	1111	0	0	0	0	0	8888	48	5	2	11	19	0.978	-0.2	0.521	132 251 248 163
0	0	0	0	0	8888	0	0	0	0	0	8888	11	17							
0	0	0	0	0	8888	0	0	0	0	0	9999	23	20							
0	0	0	0	0	2	0	0	0	0	0	2	35	41	3	11	19	25.338	-0.2	0.552	131 251 248 162
0	0	0	0	0	2	0	0	0	0	0	9999	47	5							
0	1	0	0	0	1111	0	0	0	0	0	8888	11	16							
0	0	0	0	0	8888	0	0	0	0	0	8888	22	28							
0	0	0	0	0	8888	0	0	0	0	0	9999	34	40							
0	0	0	0	0	9999	0	0	0	0	0	2	46	4	4	11	19	40.698	-0.3	0.553	131 251 248 162
0	0	0	0	0	2	0	0	0	0	0	2	10	16							
0	0	0	0	0	9999	0	0	0	0	0	1111	22	28							
0	0	0	0	0	8888	0	0	0	0	0	8888	33	39							
0	0	0	0	0	8888	0	0	0	1	1	8888	45	3	5	11	19	56.058	-0.3	0.521	131 252 248 163
0	0	0	0	0	9999	0	0	0	0	0	9999	9	15							
0	0	0	0	0	2	0	0	0	0	0	2	21	27							

this was the 3rd word in the mainframe data

this was the 45th word in the mainframe data

this was the first word in main frame data & is the one to which this ANT applies directly

DAY IS 249

[illegible]

DAY 15 249

304	180	256	835	CON	ELT	SCT	5A4	537	991	1175	LYA	ISUBS	IL	HR	MT	SEC	PITCH	SPIN	TEMP	---VOLTS---
0	0	0	0	0	8888	0	0	0	0	0	8888	36	42							
0	0	0	0	0	8888	0	0	0	0	0	9999	48	6	2	11	23	0.378	-0.2	0.521	131 251 248 163
0	0	0	0	0	2	0	0	0	0	0	2	12	18							
0	0	0	0	0	2	0	0	0	0	0	9999	24	30							
0	0	0	0	0	9999	0	0	0	0	0	1111	36	42							
0	0	0	0	0	8888	0	0	0	0	0	8888	47	5	3	11	23	15.738	-0.2	0.553	131 251 248 163
0	0	0	0	0	8888	0	0	0	0	0	8888	11	17							
0	0	0	0	0	9999	0	0	0	0	0	2	23	29							
0	0	0	0	0	2	0	0	0	0	0	2	35	41							
0	0	0	0	0	9999	0	0	0	0	0	1111	47	5	3	11	23	31.098	-0.3	0.553	131 251 248 162
0	0	0	0	0	8888	0	0	0	0	0	8888	10	16							
0	0	0	0	0	8888	0	0	0	0	0	8888	22	28							
0	0	0	0	0	9999	0	0	0	0	0	9999	34	40							
0	0	0	0	0	2	0	0	0	0	0	2	46	4	4	11	23	46.458	-0.3	0.521	131 251 248 162
0	0	0	0	0	2	0	0	0	0	0	9999	10	16							
0	0	0	0	0	1111	0	0	0	0	0	8888	22	27							
0	0	0	0	0	8888	0	0	0	0	0	8888	33	39							
0	0	0	0	0	8888	0	0	0	0	0	9999	45	3	5	11	24	1.818	-0.4	0.521	131 251 248 162
0	0	0	0	0	9999	0	0	0	0	0	2	9	15							
0	0	0	0	0	3	0	0	0	0	0	9999	21	27							
0	0	0	0	0	9999	0	0	0	0	0	1111	33	39							
0	0	0	0	0	8888	0	0	0	0	0	8888	44	2	6	11	24	17.178	-0.3	0.521	130 251 248 163
0	0	0	0	0	8888	0	0	0	0	0	8888	8	14							
0	0	0	0	0	9999	0	0	0	0	0	2	20	26							
0	0	0	0	0	2	0	0	0	0	0	2	37	38							
0	0	0	0	0	9999	0	0	0	0	0	9999	44	2	6	11	24	32.538	-0.2	0.521	131 251 248 163
0	0	0	0	0	1111	0	0	0	0	0	8888	8	13							
0	0	0	0	0	8888	0	0	0	0	0	8888	19	25							
0	1	0	0	0	8888	0	0	0	0	0	9999	31	37							
0	0	0	0	0	2	0	0	0	0	0	2	43	1	7	11	24	47.898	-0.2	0.521	131 251 248 163
0	0	0	0	0	2	0	0	0	0	0	9999	7	13							
0	0	0	0	0	1111	0	0	0	0	0	8888	19	24							
0	0	0	0	0	8888	0	0	0	0	0	8888	30	36							
0	0	0	0	0	8888	0	0	0	0	0	9999	42	48	8	11	25	3.258	-0.2	0.521	131 251 248 162
0	0	0	0	0	9999	0	0	0	0	0	2	6	12							
0	1	0	0	0	2	0	0	0	0	0	2	18	24							
0	0	0	0	0	9999	0	0	0	0	0	1111	30	36							
0	0	0	0	0	8888	0	0	0	0	0	8888	41	47	9	11	25	18.618	-0.2	0.553	130 251 248 163
0	0	0	0	0	8888	0	0	0	0	0	8888	5	11							
0	0	0	0	0	9999	0	0	0	0	0	9999	17	23							
0	0	0	0	0	2	0	0	0	0	0	2	29	35							
0	0	0	0	0	9999	0	0	0	0	0	9999	41	47	9	11	25	33.978	-0.3	0.553	130 251 248 163
0	0	0	0	0	1111	0	0	0	0	0	8888	5	10							
0	0	0	0	0	8888	0	0	0	0	0	8888	16	22							
0	0	0	0	0	8888	0	0	0	0	0	9999	28	34							

DAY 15 249

304	180	256	835	CON	ELT	SCT	5R4	537	991	1175	LYA	CURS	1L	HR	MT	SEC	PITCH	SPIN	TEMP	---VOLTS---	
0	0	0	0	0	2	0	0	0	0	0	2	40	46	10	11	25	49.338	-0.3	0.521	130	252 248 162
0	0	0	0	0	2	0	0	0	0	0	9999	4	10								
0	0	0	0	0	9999	0	0	0	0	0	1111	16	22								
0	0	0	0	0	8888	0	0	0	0	0	8888	27	33								
0	0	0	0	0	8888	0	0	0	0	0	8888	39	45	11	11	26	4.698	-0.3	0.521	131	251 248 162
0	0	0	0	0	9999	0	0	0	0	0	2	3	9								
0	1	0	0	0	2	0	0	0	0	0	2	15	21								
0	0	0	0	0	9999	0	0	0	0	0	1111	27	33								
0	1	0	0	0	8888	0	0	0	0	0	8888	38	44	12	11	26	20.058	-0.3	0.521	130	252 248 163
0	(	0	0	0	8888	0	0	0	0	0	8888	2	8								
0	0	0	0	0	9999	0	0	0	0	0	9999	14	20								
0	0	0	0	0	3	0	0	0	0	0	2	26	32								
0	0	0	0	0	2	0	0	0	0	0	9999	38	44	12	11	26	35.418	-0.3	0.521	130	251 248 163
0	0	0	0	0	1111	0	0	0	0	0	8888	2	7								
0	0	0	0	0	8888	0	0	0	2	1	8888	13	19								
0	0	0	0	0	8888	0	0	0	0	0	9999	25	31								
0	1	0	0	0	9999	0	0	0	0	0	2	37	43								
0	0	0	0	0	3	0	0	0	0	0	9999	1	7	1	11	26	50.778	-0.2	0.521	130	251 248 163
0	1	0	0	0	9999	0	0	0	0	0	1111	13	19								
0	0	0	0	0	8888	0	0	0	0	0	8888	24	30								
0	0	0	0	0	8888	0	0	0	0	0	8888	36	42								
0	0	0	0	0	9999	0	0	0	0	0	2	48	6	2	11	27	6.138	-0.2	0.521	130	252 248 163
0	1	0	0	0	3	0	0	0	0	0	2	12	18								
0	0	0	0	0	9999	0	0	0	1	0	9999	24	30								
0	0	0	0	0	1111	0	0	0	0	0	8888	30	41								
0	0	0	0	0	8888	0	0	0	0	0	8888	47	5	3	11	27	21.498	-0.2	0.553	130	251 248 162
0	0	0	0	0	8888	0	0	0	0	0	9999	11	17								
0	0	0	0	0	2	0	0	0	0	0	2	23	29								
0	0	0	0	0	2	0	0	0	0	0	9999	35	41								
0	0	0	0	0	1111	0															

DAY IS 249

304	180	256	835	CON	ELT	SCT	584	537	991	1175	LYA	ISURS	IL	HR	MT	SFC	PITCH	SPIN	TEMP	---VOLTS---	
0	0	0	0	0	9999	0	0	0	0	0	1111	44 2	6	11	28	38.298	-0.2	0.521	129	252	248 162
0	0	0	0	0	8888	0	0	0	0	0	8888	7 13									
0	1	0	0	0	8888	0	0	0	0	0	8888	19 25									
0	0	0	0	0	9999	0	0	0	0	0	2	31 37									
0	0	0	0	0	2	0	0	0	0	0	2	43 1	7	11	28	53.658	-0.2	0.521	131	251	248 163
0	0	1	0	0	9999	0	0	0	0	0	1111	7 13									
0	0	0	0	0	8888	0	0	0	0	0	8888	18 24									
0	1	0	0	0	8888	0	0	0	0	0	8888	30 36									
0	1	1	0	0	9999	0	0	0	0	0	9999	42 48	8	11	29	9.018	-0.2	0.521	130	251	248 163
0	0	1	0	0	2	0	0	0	2	1	2	6 12									
0	0	0	0	0	2	0	0	0	0	0	9999	18 24									
0	0	0	0	0	1111	0	0	0	2	0	8888	30 35									
0	0	0	0	0	8888	0	0	0	0	0	8888	41 47	9	11	29	24.378	-0.2	0.553	130	251	248 163
0	1	0	0	0	8888	0	0	0	0	0	9999	5 11									
0	1	0	0	0	9999	0	0	0	0	0	2	17 23									
0	0	0	0	0	2	0	0	0	0	0	2	29 35									
0	2	0	0	0	9999	0	0	0	0	0	1111	41 47	9	11	29	39.738	-0.3	0.553	130	251	248 163
0	2	0	0	0	8888	0	0	0	0	1	1 8888	4 10									
0	1	1	0	0	8888	0	0	0	0	0	8888	16 22									
0	0	0	0	0	9999	0	0	0	0	0	2	28 34									
0	4	0	0	0	2	0	0	0	2	0	2	40 46	10	11	29	55.098	-0.3	0.521	130	251	248 163
0	1	0	0	0	9999	0	0	0	0	0	9999	4 10									
0	0	0	0	0	1111	0	0	0	0	1	0 8888	16 21									
0	2	0	0	0	8888	0	0	0	0	0	8888	27 33									
0	0	1	0	0	8888	0	0	0	0	0	9999	39 45	11	11	30	10.458	-0.3	0.521	130	251	248 162
0	1	0	0	0	2	0	0	0	0	0	2	3 9									
0	0	1	0	0	?	0	0	0	0	0	9999	15 21									
0	0	0	0	0	9999	0	0	0	1	0	1111	27 33									
0	6	1	0	0	8888	0	0	0	1	1	8888										

[illegible]

[illegible]

REC

80

REC

80

OSO-6

2 MINUTE AVERAGES

69-068A-06C

This data set consists of 1 800 BPI Binary data tape that was produced on the IBM/360. The 'D' tape is 9 track and the 'C' tape 7 track. Both tapes have standard labels and contain 1 data file.

<u>D#</u>	<u>C#</u>	<u>START</u>	<u>STOP</u>
D-10786	C-09063	8/15/69	9/29/70

OSOS-6

69-068A-06C

2.5 Minute Averages

<u>Words</u>	<u>ID</u>	<u>Format</u>
1-360	FLUXES	I2
361-372	FAVRGE	I2
373-384	FSIGMA	I2
385-744	COUNTS	I2
745-756	CAVRGE	I2
757-768	CSIGMA	I2
769-888	ASPECT	I2
889-896	NAME	A4
897	DAY	I2
898	LIMITS	I2
899	PITCH	I2
900	SPIN	I2
901	NDA	I2
902	ID	I2
903	IK	I2

//UCAS01M5 JOB (1111,RMT2,1,C7), 'AVE TAEES', CLASS=Y,
// TIME=(0001,00)
***SETP TAPE9 OSOGAV=U655 FILEPROTECT STD LABEL
// EXEC FORTRAN
//SYSIN DD *

X JOB 232
HASPHASP

GENERATED STATEMENT

* UCAS01M5 STEP C PGM=IEYFORT TOOK 6.98SEC *
* SIZE= 80KB COND-CODE=0 CPU-TIME USED 1.36SEC *

* UCAS01M5 STEP L PGM=LINKEDIT TOOK 12.48SEC *
* SIZE=102KB COND-CODE=0 CPU-TIME USED 0.50SEC *

format [//G,FT20F001 DD UNIT=TAPE9,DISP=OLD,LABEL=(1,SL,,IN),
// DCB=(RECFM=VBS,LRFCL=1810,BLKSIZE=1814),
// VOL=(PRIVATE,SER=OSOGAV),DSN=OSOG,AVERAGES
COMPLETION CODE - SYSTEM=222 USER=U000

IEF242I ALLOC. FOR UCAS01M5 G AT AREND
IEF237I 231 ALLOCATED TO PGM=*.DD
IEF237I 031 ALLOCATED TO FT03F001
IEF237I 032 ALLOCATED TO FT06F001
IEF237I 040 ALLOCATED TO FT07F001
IEF237I 0C2 ALLOCATED TO FT20F001
IEF285I SYS72173.T040752.RF000.UCAS01M5.GOSET PASSED
IEF285I VOL SER NOS= 4SCR2
IEF285I SYS72173.T040752.RF000.UCAS01M5.R00000009 DELETED
IEF285I VOL SER NOS=
IEF285I OSOG.AVERAGES KEPT
IEF285I VOL SER NOS= OSOGAV.

* UCAS01M5 STEP G PGM=MAIN TOOK 23.32SEC *
* SIZE= 30KB COND-CODE=0 CPU-TIME USED 2.58SEC *

* THIS JOB HAS FAILED & IS BEING FLUSHED BY SYSTEM *

* WED 21 JUN 1972 *
* JOB UCAS01M5 (CLASS Y) STARTED 4HR 8MIN 56.72SEC *
* TOTAL ELAPSED TIME TAKEN 44.56SEC *
* TOTAL C.P.U. TIME TAKEN 4.44SEC *
* DISK I/O COUNT 513 TAPE I/O COUNT 19 *
* HASP NUMBER 232 CARDS READ 44 *
* NOMINAL SIZE 102KB LINES PRINTED 701 *
* PARTITION P3 (120KB) CARDS PUNCHED NIL *
* LOADPOINT (HEX) 48820 A/C UNITS USED 0.155 *

~2 Min AVE


```

0001      INTEGER*2 FLUXES(12,30),FAVRGE(12),FSIGMA(12),
+          COUNTS(12,30),CAVRGE(12),CSIGMA(12),ASPECT(4,30),
+          DAY,LIMITS,PITCH,ISPIN,IK,NDATA, IO(903),ID
0002      REAL*8      NAME
0003      EQUIVALENCE (FLUXES(1),IO(1)),(FAVRGE(1),IO(361)),
+          (FSIGMA(1),IO(372)),(COUNTS(1),IO(385)),
+          (CAVRGE(1),IO(745)),(CSIGMA(1),IO(757)),
+          (ASPECT(1),IO(769)),
+          (NAME,IO(889)),(DAY,IO(897)),(LIMITS,IO(898)),
+          (PITCH,IO(899)),(ISPIN,IO(900)),(NDATA,IO(901)),
+          (ID,IO(902)),(IK,IO(903))
0004      500 READ(20,END=1000) IO
0005      WRITE(6,1) DAY,LIMITS,PITCH,ISPIN,NDATA,ID
0006      WRITE(6,5)
0007      DO 100 J=1,IK
0008      100 WRITE(6,3) (FLUXES(I,J),I=1,12),(ASPECT(I,J),I=1,4)
0009      WRITE(6,2)
0010      WRITE(6,3) FAVRGE
0011      WRITE(6,3) FSIGMA
0012      WRITE(6,4) DAY,LIMITS,PITCH,ISPIN,NDATA,ID
0013      WRITE(6,5)
0014      DO 200 J=1,IK
0015      200 WRITE(6,3) (COUNTS(I,J),I=1,12),(ASPECT(I,J),I=1,4)
0016      WRITE(6,2)
0017      WRITE(6,3) CAVRGE
0018      WRITE(6,3) CSIGMA
0019      GOTO 500
0020      1000 STOP 1000
0021      1 FORMAT('1'///' COUNTS PER LOOK * 100'///' DAY',I4,' DAWN/DUSK',
+I3,' PITCH*100',I6,' SPIN*1000',I4,' ID'S',2I6///)
0022      2 FORMAT(//)
0023      3 FORMAT(1X,16I7)
0024      4 FORMAT('1'///' ADJUSTED COUNTS '///' DAY',I4,' DAWN/DUSK',
+I3,' PITCH*100',I6,' SPIN*1000',I4,' ID'S',2I6///)
0025      5 FORMAT('/', 304 180 256 835 CONT ELCT SCT 584 537
+ 537 991 1175 LVA SPIN PITCH HOUR MINUTE'/)
0026      END

```

COUNTS PER LOOK * 100

DAY 227

DAWN/DUSK

3

PITCH*100

-190

SPIN*1000 528

ID'S

1 dawn only
2 dusk only

-1.9°

0.528 cps

NDAM
16 1- sec. # on tape
forget ASPECT

304 180 256 835 CONT ELCT SCT 584 537 991 1175 LYA SPIN PITCH HOUR MINUTE

dawn	50	96	40	16	46	309	56	43	36	56	90	4011	530	-147	8	21
	1053	326	123	106	86	400	121	175	100	128	157	6933	531	-194	8	23
	1520	493	176	180	153	500	230	240	143	230	250	6657	533	-193	8	25
	1530	536	146	156	176	400	189	227	113	193	251	6575	531	-192	8	27
	1350	410	56	63	70	385	83	143	66	126	113	6587	527	-193	8	30
	1276	213	33	36	50	342	23	70	16	40	53	6512	530	-192	8	32
	1353	196	20	26	13	314	10	53	10	10	20	6037	530	-191	8	34
	1310	170	50	16	13	328	10	43	16	6	23	6800	528	-191	8	36
	1423	144	20	17	20	312	6	55	13	20	17	6312	520	-192	8	38
	1370	203	10	16	6	314	10	53	0	0	10	6487	531	-189	8	40
Flares	1303	140	23	13	0	300	13	24	6	6	10	6480	530	-192	8	42
	1340	150	20	13	16	300	6	66	3	3	13	6242	530	-191	8	44
	1400	173	30	13	10	271	0	36	6	0	13	6150	525	-188	8	46
	1360	126	33	10	20	300	0	40	6	0	0	6725	528	-191	8	48
	1410	180	10	13	6	287	6	36	6	6	13	6000	525	-191	8	50
	1310	146	33	13	6	287	6	63	10	6	10	6600	528	-190	8	52
	1330	130	23	10	20	300	0	40	10	6	6	6628	530	-191	8	54
	1270	116	13	20	13	300	3	53	6	10	10	6450	530	-191	8	56
	1323	166	13	16	6	300	3	33	10	6	30	6411	528	-190	8	58
	1333	173	40	16	3	300	0	66	13	3	13	6787	530	-189	8	59
	1336	160	43	26	3	277	0	51	6	6	10	6228	526	-192		2
	1393	160	26	13	6	300	3	63	16	3	20	6325	525	-190		3
	1253	113	6	16	16	300	0	56	0	3	10	6225	525	-192	9	5
	1376	153	6	26	10	300	3	40	23	3	20	6087	528	-191	9	7
	1323	183	30	6	10	275	3	56	13	3	20	6555	530	-192	9	9
	1210	156	33	30	6	275	0	30	3	3	10	6385	528	-192	9	11
	1210	136	13	3	10	300	3	36	36	3	16	6687	530	-192		13
dusk	1290	133	16	36	10	300	3	63	13	0	3	6212	530	-192		15
	1300	160	30	30	6	277	13	40	10	6	3	6411	528	-195	9	17
	1003	103	6	3	0	300	10	36	6	6	13	6250	525	-194	9	19

high count rates
due to South Atlantic
anomaly - NOT included
in coverage at bottom

FAURGE 1330
Fsigma -> 58

155	23	15	10	297	4	47	10	5	14	6409
24	12	6	5	14	4	12	8	4	6	242

$$\frac{1}{n} \sum (x_i)$$

$$\sqrt{\frac{1}{n-1} \sum (x_i - \bar{x})^2}$$

0306 then the Earth's atmosphere
views the sun for approx 6 minutes at each end the 60 minutes it is in sunlight - 1 orbit = 90 mins

ADJUSTED COUNTS

(Counts/sec)

DAY 227

DAWN/DUSK

③

PITCH*100 -190

SPIN*1000 528

ID'S

Limits

①4

①ID

COUNTS ← MULT * 10 → ASPECT

304	180	256	835	CONT	ELCT	SCT	584	537	991	1175	LYA	SPIN	PITCH	HOUR	MINUTE
282	469	327	117	211	1285	233	1260	403	233	455	25100	530	-147	8	21
6766	1635	1127	905	442	1669	505	5573	1185	534	826	4707	531	-194	8	23
9768	2481	1614	1537	788	2095	963	7657	1699	963	1319	4523	533	-193	8	25
9782	2686	1333	1325	902	1669	788	7209	1336	805	1318	4446	531	-192	8	27
8635	2038	507	531	356	1593	343	4507	774	521	589	4422	527	-193	8	30
8134	1064	300	304	255	1423	95	2216	188	166	277	4391	530	-192	8	32
8582	978	181	218	66	1306	41	1673	117	41	104	4059	530	-191	8	34
8305	847	453	134	66	1361	41	1356	188	24	120	4566	528	-191	8	36
8906	706	178	141	100	1275	24	1710	150	81	87	4180	520	-192	8	38
8687	1015	90	134	30	1310	41	1675	0	0	52	4366	531	-189	8	40
8303	699	209	110	0	1248	54	759	70	24	52	4368	530	-192	8	42
8500	748	181	109	81	1248	24	2084	35	12	68	4197	530	-191	8	44
8745	855	268	107	50	1117	0	1122	69	0	67	4083	525	-188	8	46
8610	627	298	84	101	1245	0	1260	70	0	0	4512	528	-191	8	48
8866	890	89	108	30	1183	24	1126	70	24	67	3999	525	-191	8	50
8281	727	298	109	30	1191	24	1983	117	24	52	4424	528	-190	8	52
8450	649	208	84	101	1248	0	1264	117	24	31	4461	530	-191	8	54
8056	579	117	168	66	1248	12	1673	70	41	52	4337	530	-191	8	56
8363	826	117	134	30	1245	12	1039	117	24	156	4298	528	-190	8	58
8414	862	361	133	15	1248	0	2078	152	12	67	4550	530	-189	8	59
8439	793	388	218	15	1144	0	1601	70	24	51	4164	526	-192	9	2
8744	791	233	108	30	1237	12	1970	186	12	103	4211	525	-190	9	3
7904	559	54	134	80	1237	0	1756	0	12	51	4157	525	-192	9	5
8711	762	54	218	50	1245	12	1260	270	12	104	4084	528	-191	9	7
8420	914	272	50	51	1144	12	1771	153	12	104	4416	530	-192	9	9
7682	777	299	252	30	1141	0	946	35	12	52	4291	528	-192	9	11
7701	679	118	25	51	1248	12	1138	424	12	83	4505	530	-192	9	13
8210	664	145	304	51	1248	12	1993	153	0	15	4185	530	-192	9	15
8326	798	274	255	30	1150	53	1268	118	24	15	4331	528	-195	9	17
6369	510	54	25	0	1237	41	1133	70	24	67	4190	525	-194	9	19

CAVRAGE

CSIGMA

8412	775	212	132	51	1231	16	1487	118	20	72	4296
→ 344	122	111	56	29	60	16	392	96	17	34	173

COUNTS PER LOOK * 100

DAY 228 DAWN/DUSK 3 PITCH*100 -189 SPIM*1000 529 ID'S 16 2

304	180	256	835	CONT	ELCT	SCT	584	537	991	1175	LYA	SPIN	PITCH	HOUR	MINUTE
210	230	126	80	100	462	123	140	103	186	193	4350	524	-129	8	7
1253	470	163	160	230	462	236	293	190	286	263	6914	530	-196	8	9
1530	593	243	126	273	466	263	310	200	346	333	6525	528	-190	8	11
1560	463	140	146	120	550	200	266	146	193	230	6788	530	-194	8	13
1330	330	100	70	70	350	96	123	63	96	113	6500	528	-193	8	15
1273	196	33	30	23	311	23	73	20	13	20	6522	528	-192	8	17
1373	166	20	6	13	330	20	43	13	13	20	6562	528	-192	8	19
1326	183	16	10	16	300	25	35	10	7	21	5977	530	-193	8	23
1230	200	26	26	13	300	3	46	6	10	10	6533	530	-189	8	25
1316	173	26	10	6	277	3	86	10	0	6	6388	528	-191	8	27
1346	173	20	26	10	287	3	43	20	13	6	6644	530	-191	8	29
1256	150	6	13	6	275	3	33	10	3	6	6350	530	-190	8	30
1220	153	20	10	6	275	6	56	3	3	3	6187	528	-190	8	32
1336	180	16	13	20	288	3	46	10	6	6	6875	530	-189	8	34
1306	146	6	10	13	285	0	43	10	6	23	5783	525	-191	8	36
1336	133	36	13	6	300	3	53	16	6	13	6222	533	-191	8	38
1323	183	30	20	6	300	0	73	13	10	13	6425	525	-191	8	40
1193	103	16	13	3	271	6	56	10	6	26	6385	528	-190	8	42
1330	170	26	13	10	300	0	46	10	10	10	6725	525	-191	8	44
1270	146	16	23	6	262	3	46	3	6	16	6377	530	-191	8	46
1336	180	16	10	3	242	3	43	6	0	10	6542	530	-191	8	48
1353	130	30	3	0	287	13	36	10	6	3	6233	533	-192	8	50
1310	163	26	16	10	262	3	63	16	6	26	6314	525	-192	8	52
1330	170	33	10	16	287	0	43	13	6	10	6744	525	-192	8	54
1296	140	40	10	10	300	0	43	10	3	10	6800	528	-193	8	56
1253	140	6	26	13	285	13	43	6	13	13	6100	530	-192	8	58
1393	206	16	23	3	288	0	53	16	3	26	6228	530	-192	8	59
1300	176	20	10	16	300	6	76	13	6	16	6400	528	-193	9	1
1236	166	30	20	6	271	0	30	6	3	6	6285	530	-196	9	3
556	76	13	0	6	250	0	20	0	3	6	5862	529	-192	9	6
1305	160	21	14	8	285	4	49	10	6	12	6420				
52	24	9	6	5	18	5	12	4	3	7	265				

ADJUSTED COUNTS

DAY 228 DAWN/DUSK 3 PITCH*100 -189 SPIM*1000 529 ID'S 16 2

	304	180	256	835	CONT	ELCT	SCT	584	537	991	1175	LYA	SPIN	PITCH	HOUR	MINUTE
1105	1099	912	527	438	1903	506	3690	1110	766	950	2557	524	-129	8	7	
8068	2352	1495	1371	1186	1922	982	9329	2250	1190	1381	4689	530	-196	8	9	
9658	2952	2194	1055	1382	1935	1092	9753	2346	1436	1737	4370	528	-190	8	11	
9978	2314	1277	1241	615	2288	832	8438	1724	803	1206	4586	530	-194	8	13	
8481	1646	910	593	357	1453	398	3891	742	398	591	4380	528	-193	8	15	
8077	975	299	252	117	1289	95	2301	234	53	104	4379	528	-192	8	17	
8730	827	181	50	66	1370	83	1358	152	53	104	4414	528	-192	8	19	
8458	914	145	84	81	1248	104	1108	117	29	110	4032	530	-193	8	23	
7764	997	234	217	65	1248	12	1448	70	41	52	4380	530	-189	8	25	
8331	861	235	84	30	1150	12	2710	117	0	31	4286	528	-191	8	27	
8538	863	181	218	50	1194	12	1357	235	54	31	4467	530	-191	8	29	
7954	748	54	109	30	1144	12	1041	117	12	31	4265	530	-190	8	30	
7712	762	180	83	30	1141	24	1763	35	12	15	4148	528	-190	8	32	
8447	898	144	109	101	1198	12	1450	117	24	31	4613	530	-189	8	34	
8212	722	53	83	65	1175	0	1346	116	24	119	3854	525	-191	8	36	
8535	667	328	110	30	1255	12	1684	189	25	68	4210	533	-191	8	38	
8318	905	269	166	30	1237	0	2285	151	41	67	4282	525	-191	8	40	
7542	512	144	109	15	1125	24	1763	117	24	135	4280	528	-190	8	42	
8376	841	234	108	50	1237	0	1441	116	41	51	4486	525	-191	8	44	
8069	729	145	194	30	1090	12	1453	35	24	83	4292	530	-191	8	46	
8486	899	145	84	15	1007	12	1359	70	0	52	4404	530	-191	8	48	
8656	652	274	25	0	1200	54	1145	118	25	15	4221	533	-192	8	50	
8264	807	234	134	50	1080	12	1975	186	24	134	4216	525	-192	8	52	
8390	841	297	83	80	1183	0	1348	151	24	51	4503	525	-192	8	54	
8252	698	363	84	51	1245	0	1359	117	12	52	4578	528	-193	8	56	
7988	699	54	220	66	1186	54	1361	70	54	68	4113	530	-192	8	58	
8880	1029	145	194	15	1198	0	1678	188	12	136	4199	530	-192	8	59	
8326	878	182	85	82	1245	24	2410	153	24	83	4323	528	-195	9	1	
7958	830	275	171	30	1127	0	955	71	12	31	4263	530	-196	9	3	
3537	379	118	0	30	1039	0	632	0	12	31	3947	529	-192	9	6	
8272	797	194	123	43	1183	17	1566	123	26	66	4310					
348	123	88	58	25	77	21	391	52	16	39	177					

COUNTS PER LOOK * 100

DAY 229 DAWN/DUSK 3 PITCH*100 -195 SPIM*1000 529 ID'S 18 3

	304	180	256	835	CONT	ELCT	SCT	584	537	991	1175	LYA	SPIN	PITCH	HOUR	MINUTE
630	523	250	206	283	485	293	300	196	286	300	5637	520	-155	7	54	
1566	620	280	186	213	525	270	370	196	326	300	6088	530	-198	7	56	
1416	496	170	143	186	455	223	250	143	220	226	6562	528	-195	7	58	
1266	336	93	53	63	412	83	86	63	110	130	6642	530	-198	8	0	
1303	156	43	23	23	387	33	90	6	26	36	5987	530	-204	8	2	
1360	166	26	16	10	371	16	70	10	3	13	6087	528	-196	8	4	
1203	163	33	13	20	314	6	80	16	3	20	6462	530	-197	8	6	
1143	146	13	13	10	300	0	41	13	3	17	5900	530	-201	8	9	
1340	153	23	10	16	300	6	73	16	13	13	6366	528	-196	8	11	
1336	103	23	26	13	288	6	26	6	6	30	6214	530	-197	8	13	
1226	216	10	16	13	300	6	36	6	3	10	6150	533	-194	8	16	
1290	150	10	16	6	275	6	63	3	6	10	6125	530	-199	8	17	
1200	166	36	23	6	287	0	46	6	6	6	5857	530	-195	8	19	
1263	143	16	10	10	271	6	53	3	6	3	6170	528	-196	8	21	
1200	136	13	23	3	300	0	40	6	3	13	6542	530	-194	8	23	
1383	160	26	10	20	300	3	53	6	3	10	6190	530	-195	8	25	
1306	136	13	10	3	270	3	53	20	6	13	6266	528	-195	8	27	
1220	140	10	23	10	266	0	56	16	0	13	6200	530	-196	8	29	
1200	143	16	10	3	288	6	56	6	13	23	6114	528	-196	8	31	
1263	110	23	16	6	285	3	40	3	0	10	5887	530	-195	8	32	
1316	156	13	16	6	285	3	46	20	6	20	6375	530	-195	8	34	
1286	156	26	23	10	277	0	40	6	0	13	6283	528	-197	8	36	
1170	136	30	33	6	283	0	63	13	3	6	6090	530	-197	8	38	
1316	156	10	23	10	280	0	40	20	10	10	5983	530	-197	8	40	
1176	186	16	26	13	316	0	48	13	6	17	6200	527	-198	8	42	
1243	156	23	13	10	280	10	26	3	3	3	6850	530	-196	8	44	
1253	200	16	13	10	300	3	43	0	10	10	6281	528	-197	8	46	
1250	150	16	23	3	263	0	36	6	0	0	6000	530	-200	8	48	
1073	133	13	10	6	260	0	40	3	0	16	5962	528	-200	8	50	
53	40	3	0	3	290	0	0	0	3	3	4433	533	-199	8	52	
1258	153	19	17	9	292	3	49	9	5	12	6208					
66	25	7	6	4	22	4	14	6	3	6	226					

ADJUSTED COUNTS

DAY 229 DAWN/DUSK 3 PITCH*100 -195 SPIM*1000 529 ID'S 18 3

	304	180	256	835	CONT	ELCT	SCT	584	537	991	1175	LYA	SPIN	PITCH	HOUR	MINUTE
3579	2522	2068	1529	1302	1982	1197	8834	2179	1169	1502	3522	520	-155		7	54
10134	3106	2579	1603	1103	2184	1123	11813	2325	1356	1578	4141	530	-198		7	56
9082	2476	1554	1220	955	1889	925	7935	1688	913	1184	4437	528	-195		7	58
8206	1683	857	457	326	1714	345	2748	748	457	684	4523	530	-198		8	0
8591	784	402	204	121	1610	137	2925	71	108	190	4124	530	-204		8	2
8748	829	238	137	51	1540	65	2225	118	12	68	4122	528	-196		8	4
7759	816	303	111	103	1306	24	2549	189	12	105	4387	530	-197		8	6
7463	732	120	113	52	1248	0	1318	154	12	89	4037	530	-201		8	9
8607	764	210	85	82	1245	24	2318	189	53	68	4308	528	-196		8	11
8616	515	211	223	67	1198	24	828	71	24	157	4219	530	-197		8	13
7908	1087	92	137	67	1257	25	1151	71	12	52	4188	533	-194		8	16
8376	751	92	138	31	1144	24	2015	35	24	52	4175	530	-199		8	17
7701	830	329	196	30	1194	0	1461	70	24	31	3965	530	-195		8	19
8112	714	146	85	51	1125	24	1683	35	24	15	4175	528	-196		8	21
7675	679	118	195	15	1248	0	1268	70	12	68	4420	530	-194		8	23
8875	800	237	85	102	1248	12	1684	70	12	52	4190	530	-195		8	25
8376	679	118	85	15	1121	12	1682	236	24	68	4236	528	-195		8	27
7855	700	91	197	51	1106	0	1783	189	0	68	4205	530	-196		8	29
7719	714	146	85	15	1195	24	1780	70	53	120	4141	528	-196		8	31
8118	550	210	136	30	1186	12	1272	35	0	52	3989	530	-195		8	32
8459	780	119	136	30	1186	12	1463	236	24	105	4320	530	-195		8	34
8297	779	238	197	51	1150	0	1273	71	0	68	4263	528	-197		8	36
7546	680	275	283	30	1177	0	2007	154	12	31	4135	530	-197		8	38
8487	781	91	197	51	1165	0	1274	237	41	52	4062	530	-197		8	40
7581	927	146	223	67	1308	0	1525	153	24	89	4199	527	-198		8	42
8003	780	211	111	51	1165	41	827	35	12	15	4646	530	-196		8	44
8072	999	146	111	51	1245	12	1368	0	41	52	4258	528	-197		8	46
8144	752	148	200	15	1094	0	1154	71	0	0	4098	530	-200		8	48
6960	664	119	86	31	1077	0	1277	35	0	84	4056	528	-200		8	50
345	201	27	0	15	1213	0	0	0	12	15	3036	533	-199		8	52
8106	767	176	148	49	1216	15	1579	113	20	67	4210					
419	127	72	56	24	91	16	448	74	15	33	150					

//UCASO1MD JOB (1111,RMT2,5,10),'AVE TAPE LIST',CLASS=N,
// TIME=(0005,00)
***ROUTE PRINT LOCAL
***SETP TAPE9 OSOGAV=U655 FILEPROTECT STDLABEL
// EXEC FORTLANG
//C.SYSIN DD *

X JOB 847
HASPHASP

* UCASO1MD STEP C PGM=IEYFORT TOOK 9.10SEC *
* SIZE= 80KB COND-CODE=0 CPU-TIME USED 0.88SEC *

* UCASO1MD STEP L PGM=LINKEDIT TOOK 19.76SEC *
* SIZE=102KB COND-CODE=0 CPU-TIME USED 0.78SEC *

//G.FT23F001 DD UNIT=TAPE9,DISP=OLD,LABEL=(1,SL,,IN),
// DCB=(RECFM=VBS,LRECL=1810,BLKSIZE=1814),
// VOL=(PRIVATE,SER=OSOGAV),DSN=OSOG.AVERAGES

* UCASO1MD STEP G PGM=MAIN TOOK 4MIN 42.90SEC *
* SIZE= 30KB COND-CODE=02 CPU-TIME USED 41.92SEC *

* FRI 21 JUL 1972 *
* JOB UCASO1MD (CLASS N) STARTED 18HR 13MIN 29.78SEC *
* TOTAL ELAPSED TIME TAKEN: 5MIN 13.88SEC *
* TOTAL C.P.U. TIME TAKEN: 43.58SEC *
* DISK I/O COUNT: 512 TAPE I/O COUNT: 5875 *
* HASP NUMBER: 847 CARDS READ: 33 *
* NOMINAL SIZE: 102KB LINES PRINTED: 6619 *
* PARTITION: P5 (176KB) CARDS PUNCHED: NIL *
* LOADPOINT (HEX): 12820 A/C UNITS USED: 2.122 *

```
0001      INTEGER*2      IHR,MT
0002      INTEGER*2      FLUXES(12,30),FAVRGE(12),FSIGMA(12),
+      COUNTS(12,30),CAVRGE(12),CSIGMA(12),ASPECT(4,30),
+      DAY ,LIMITS,PTCH,ISPIN,IK,NDATA,  IO(903),ID
0003      EQUIVALENCE (FLUXES(1),IO(1)),(FAVRGE(1),IO(361)),
+      (FSIGMA(1),IO(373)),(COUNTS(1),IO(385)),
+      (CAVRGE(1),IO(745)),(CSIGMA(1),IO(757)),
+      (ASPECT(1),IO(769)),
+      (NAME,IO(889)),(DAY ,IO(897)),(LIMITS,IO(898)),
+      (PTCH,IO(899)),(ISPIN,IO(900)),(NDATA,IO(901)),
+      (ID,IO(902)),(IK,IO(903))
0004      EQUIVALENCE (ASPECT(3,1),IHR),(ASPECT(4,1),MT)
0005      8      FORMAT(1X,I4,I8,I6,2I3,I4,I3,3I6,I5,3I4,I5,I4,I5,2I4,I5,I6)
0006      7      FORMAT('1'////' ID  NDATA  DAY HR MT N&K IK PITCH SPIN  304
+      180 256 835 CNT  ELT SCT  584 537 991 1175  LYA'//)
0007      21     WRITE(3,7)
0008      DO 20 I=1,50
0009      READ(23,END=1005) IO
0010      WRITE(3,8) ID,NDATA,DAY,IHR,MT,      LIMITS,IK,PTCH,ISPIN,CAVRGE
0011      20     CONTINUE
0012      GOTO 21
0013      1005   STOP 1002
0014      END
```


OPTIONS IN EFFECT ID,EBCDIC,SOURCE,NOLIST,NODECK,LOAD,NOMAP

OPTIONS IN EFFECT NAME = MAIN , LINECNT = 56

STATISTICS SOURCE STATEMENTS = 14, PROGRAM SIZE = 2432

STATISTICS NO DIAGNOSTICS GENERATED

F88-LEVEL LINKAGE EDITOR OPTIONS SPECIFIED LIST,MAP,SIZE=(100K,42K)
 VARIABLE OPTIONS USED - SIZE=(102400,43008)

MODULE MAP

CONTROL SECTION

NAME	ORIGIN	LENGTH
MAIN	00	980
IHCECOMH*	980	F41
IHCCOMH2*	18C8	65D
IHCFCVTH*	1F28	119D
IHCEFNT*	30C8	512
IHCEFIOS*	35E0	1378
IHCLOPT *	4958	300
IHCERRM *	4C58	5BC
IHCUTBL*	5218	638
IHCETRCH*	5850	28E

ENTRY

NAME	LOCATION	NAME	LOCATION	NAME	LOCATION	NAME	LOCATION
IBCOM#	980	FDIOCS#	A3C	INTSWTCH	18A6		
SEQDASD	1C40						
ADCON#	1F28	FCVAOUTP	1FD2	FCVLOUTP	2062	FCVZOUTP	21B2
FCVOUTP	2560	FCVEOUTP	2A62	FCVCOUTP	2C7C	INT6SWCH	2F63
ARITH#	30C8	ADJSWTCH	3434				
FIOCS#	35E0	FIOCSBEP	35E6				
ERRMON	4C58	IHCERRE	4C70				
IHCIRCH	5850	ERRTRA	5858				

ENTRY ADDRESS 00
 TOTAL LENGTH 5AE0

****MAIN DOES NOT EXIST BUT HAS BEEN ADDED TO DATA SET

ID	NDA	DAY	HR	MI	N&K	IK	PITCH	SPIN	304	180	256	835	CNT	ELT	SCY	584	537	991	1175	LYA
1	14	227	8	21	3	30	-190	528	8412	775	212	132	51	1231	16	1487	118	20	72	4296
2	16	228	8	7	3	30	-189	529	8272	797	194	123	43	118	17	1566	123	26	66	4310
3	18	229	7	54	3	30	-195	529	8106	767	176	148	49	1216	15	1579	113	20	67	4210
4	129	230	6	5	3	30	-203	530	7796	793	205	139	39	1223	17	1502	103	21	45	3911
5	130	230	7	40	3	29	-203	530	7859	747	192	155	45	1220	15	1339	98	21	53	3849
6	131	230	9	15	3	30	-205	530	7725	768	203	121	42	1207	16	1546	109	18	46	3847
7	132	230	10	51	3	30	-207	530	7738	823	208	142	36	1209	13	1390	109	16	50	3881
8	133	230	12	26	3	30	-209	530	7779	741	211	149	45	1216	19	1271	133	22	60	3770
9	134	230	14	0	3	30	-212	530	7758	731	185	131	32	1234	17	1385	98	19	54	3722
10	135	230	15	35	3	27	-214	530	7551	802	182	130	34	1220	10	1406	117	25	53	3657
11	136	230	17	10	3	30	-212	530	7725	722	177	133	43	1214	11	1341	86	19	42	3708
12	137	230	18	45	3	29	-214	530	7564	762	148	139	48	1217	16	1359	83	18	47	3680
13	138	230	20	22	3	29	-211	531	7519	754	166	115	47	1202	12	1342	102	20	50	3760
14	139	230	21	56	3	30	-209	530	7762	771	146	117	53	1218	14	1360	99	17	41	3769
15	140	230	23	31	3	29	-207	530	7617	694	178	127	44	1226	10	1432	82	14	36	3857
16	141	231	1	5	3	30	-200	531	7539	725	195	99	41	1217	11	1243	92	17	51	3928
17	142	231	2	41	3	30	-200	530	7724	728	177	120	41	1226	12	1441	78	26	56	4005
18	143	231	4	18	3	29	-195	530	7538	765	195	112	42	1231	13	1410	104	24	63	4031
19	144	231	5	51	3	28	-191	531	7761	718	175	125	44	1231	17	1444	113	16	38	4060
20	145	231	7	26	3	30	-190	531	7794	733	183	114	44	1217	12	1516	74	27	52	4160
21	146	231	9	1	3	30	-189	531	7601	713	153	118	40	1233	14	1402	107	19	51	4033
22	147	231	10	38	3	30	-189	531	7701	779	204	119	50	1211	12	1663	95	17	52	4151
23	148	231	12	12	3	29	-185	531	7824	709	183	124	49	1213	13	1605	118	21	58	4185
24	149	231	13	46	3	29	-186	531	7683	732	195	122	31	1216	10	1592	127	23	54	4160
25	150	231	15	21	3	28	-186	531	7722	761	176	104	41	1215	17	1519	104	32	57	4179
26	151	231	16	56	3	30	-183	531	7709	747	199	93	36	1204	11	1485	94	18	52	4205
27	152	231	18	32	3	23	-183	530	7395	678	152	97	35	1148	10	1434	85	19	38	4034
28	153	231	20	7	3	29	-182	531	7766	749	184	99	41	1220	15	1506	90	25	54	4238
29	154	231	21	41	3	30	-181	531	7749	765	174	106	38	1221	13	1570	123	20	39	4213
30	155	231	23	16	1	25	-177	531	7811	730	183	114	39	1224	13	1526	91	20	44	4325
31	157	232	0	52	3	29	-172	531	7901	748	183	91	37	1163	7	1341	86	18	52	4279
32	158	232	2	26	3	22	-167	530	6407	580	142	98	32	971	10	1138	55	19	58	3503
33	159	232	4	4	3	29	-166	531	8005	794	224	97	37	1162	11	1523	100	23	54	4329
34	28	232	7	27	2	23	-163	531	8078	741	193	134	39	1120	14	1585	92	26	70	4391
35	167	232	10	24	3	29	-175	531	8039	791	233	107	35	1134	16	1513	92	18	47	4244
36	168	232	11	57	3	30	-181	531	7953	777	202	110	52	1165	19	1591	91	22	52	4234
37	169	232	13	32	3	29	-189	531	7894	784	205	146	51	1177	18	1536	116	35	47	4133
38	170	232	15	7	3	29	-205	532	7703	744	191	131	42	1208	10	1410	103	18	51	3774
39	80	232	16	42	3	28	-199	532	7752	721	195	81	52	1195	12	1423	89	12	45	3897
40	81	232	18	17	1	14	-199	532	7564	769	177	122	42	1185	14	1395	99	10	45	3945
41	212	232	18	51	2	13	-204	532	7900	845	158	146	50	1183	10	1334	94	14	42	3870
42	213	232	19	52	3	29	-201	532	7792	805	149	118	49	1220	9	1420	79	18	49	3835
43	214	232	21	27	3	29	-204	531	7647	824	163	124	30	1192	10	1504	85	19	43	3822
44	215	232	23	2	1	25	-203	532	7554	779	226	128	45	1211	7	1476	94	19	48	3749
45	2	233	0	37	1	27	-202	532	7391	830	202	126	47	1221	12	1471	75	18	51	3772
46	217	233	2	12	3	30	-203	532	7594	761	162	130	37	1223	14	1460	82	16	56	3803
47	30	233	3	49	2	29	-206	532	7428	831	194	119	46	1227	10	1414	106	16	49	3805
48	31	233	5	23	3	30	-204	532	7639	814	187	140	49	1234	18	1396	99	15	56	3831
49	32	233	6	58	3	29	-208	532	7542	760	176	129	41	1244	11	1628	95	18	52	3817
50	171	233	10	8	3	30	-212	532	7733	787	184	98	53	1225	17	1446	83	24	36	3692

ID	NDATA	DAY	HR	MT	N&K	IK	PITCH	SPIN	304	180	256	835	CNT	ELT	SCT	584	537	991	1175	LYA
51	172	233	11	43	3	30	-216	532	7814	805	206	111	38	1218	12	1683	95	20	51	3624
52	173	233	13	18	3	30	-202	533	7839	830	179	131	51	1203	10	1464	104	15	46	3836
53	82	233	15	12	2	20	-220	532	7796	797	201	139	44	1233	10	1548	93	25	49	3590
54	83	233	16	28	1	11	-219	532	7812	752	159	130	52	1228	23	1323	93	25	49	3442
55	185	233	16	52	2	17	-220	532	7688	847	171	105	42	1220	16	1323	90	14	55	3625
56	84	233	18	3	1	12	-218	532	7761	729	193	138	49	1223	8	1795	75	12	65	3587
57	219	233	18	36	2	13	-219	532	7833	890	162	158	47	1227	17	1301	81	24	51	3570
58	220	233	19	38	3	29	-216	533	7639	814	198	134	52	1229	7	1432	85	26	45	3649
59	221	233	21	13	3	28	-211	532	7569	821	176	128	46	1219	14	1417	105	22	54	3625
60	222	233	22	49	1	24	-210	533	7713	790	178	99	43	1224	7	1416	103	22	38	3741
61	4	234	0	23	1	27	-207	532	7711	841	189	116	52	1223	15	1474	84	21	47	3809
62	225	234	1	58	3	30	-205	533	7692	807	162	128	48	1218	12	1397	97	14	51	3845
63	34	234	3	34	3	30	-203	532	7721	836	204	135	43	1220	11	1413	103	20	55	3884
64	35	234	5	9	3	30	-200	533	7733	816	207	105	43	1219	8	1491	98	18	40	3900
65	174	234	8	19	3	30	-197	533	7756	882	195	133	55	1203	9	1350	98	21	50	3934
66	175	234	9	54	3	30	-196	533	7822	819	195	104	48	1183	8	1499	93	11	43	4005
67	176	234	11	29	3	27	-195	533	7884	812	197	119	49	1174	9	1463	81	15	39	3995
68	85	234	14	59	2	13	-195	532	7606	811	213	113	49	1168	7	1499	94	21	43	3916
69	86	234	16	14	1	11	-193	534	7926	807	239	113	47	1220	13	1484	60	21	49	4025
70	187	234	16	39	2	17	-197	533	7930	843	182	94	49	1137	10	1385	97	16	46	4119
71	188	234	17	49	3	30	-194	533	8084	834	212	119	47	1167	11	1556	97	16	46	4108
72	227	234	19	24	3	29	-195	533	8035	806	208	113	46	1172	16	1462	71	19	52	4118
73	248	234	20	2	2	10	-195	533	8105	869	203	117	30	1148	26	1665	84	14	55	4084
74	249	234	21	0	3	28	-191	533	8118	829	213	121	41	1192	11	1511	118	23	47	4179
75	250	234	22	34	3	29	-189	533	8080	836	193	128	45	1212	13	1516	93	25	53	4269
76	251	235	0	9	3	30	-187	533	8173	892	227	130	45	1212	17	1515	108	19	58	4362
77	252	235	1	44	3	30	-185	533	8105	810	207	141	45	1224	8	1655	109	17	51	4301
78	253	235	3	19	3	30	-181	533	8265	801	237	111	44	1202	14	1603	113	19	51	4332
79	254	235	4	54	3	28	-178	533	8057	839	208	139	34	1227	14	1549	90	18	53	4397
80	255	235	6	31	3	29	-178	533	8197	815	195	125	40	1207	7	1563	102	24	51	4403
81	256	235	8	4	3	30	-177	533	8178	873	224	100	49	1245	16	1378	136	23	75	4419
82	257	235	9	40	3	25	-177	533	8309	860	214	91	44	1214	15	1494	77	16	44	4369
83	258	235	11	18	3	28	-178	533	8326	781	226	126	52	1193	12	1777	98	23	53	4396
84	260	235	14	24	3	30	-175	533	8357	822	210	114	45	1199	9	1440	108	20	42	4478
85	261	235	16	0	3	30	-177	533	8303	858	266	88	46	1193	10	1660	93	23	41	4513
86	262	235	17	34	3	30	-176	533	8287	839	217	107	41	1187	12	1653	100	21	54	4496
87	263	235	19	10	3	29	-174	533	8369	871	211	113	52	1195	13	1636	98	24	48	4482
88	264	235	20	44	3	29	-171	534	8354	842	246	107	45	1193	15	1495	102	16	60	4508
89	265	235	22	19	3	30	-170	533	8381	885	228	108	42	1156	7	1551	97	20	49	4521
90	266	235	23	55	3	28	-169	533	8246	862	252	121	59	1138	12	1561	123	21	61	4605
91	267	236	1	29	3	30	-168	534	8485	866	241	105	40	1147	13	1577	78	19	54	4542
92	268	236	3	5	3	30	-168	534	8443	863	222	122	44	1135	8	1698	101	23	57	4600
93	269	236	4	40	3	30	-172	534	8504	941	233	125	48	1132	16	1717	98	20	60	4498
94	270	236	6	15	3	30	-175	534	8549	905	244	104	43	1155	11	1757	99	23	62	4532
95	271	236	7	51	3	30	-179	534	8549	857	206	115	44	1169	12	1607	129	14	44	4469
96	272	236	9	25	3	30	-184	534	8443	918	240	121	47	1155	20	1485	114	22	54	4369
97	273	236	11	2	3	29	-188	534	8532	944	221	124	51	1156	14	1692	101	21	38	4345
98	275	236	14	10	3	30	-197	534	8362	911	205	130	55	1134	12	1727	98	24	57	4261
99	276	236	15	45	3	28	-200	534	8509	942	232	136	59	1182	12	1682	91	25	55	4133
100	277	236	17	20	3	30	-205	534	8590	942	200	120	52	1137	13	1600	126	24	65	4117

ID	NDA	DAY	HR	MT	N3K	IK	PITCH	SPIN	304	180	256	835	CNT	ELT	SCT	584	537	991	1175	LYA
101	278	236	18	55	3	28	-204	534	8650	962	206	119	66	1180	15	1709	114	19	48	4038
102	279	236	20	30	3	29	-207	534	8361	1023	272	135	51	1156	16	1694	100	20	52	4029
103	280	236	22	6	3	29	-209	534	8465	952	244	127	55	1185	16	1587	94	17	51	4057
104	281	236	23	40	3	29	-207	534	8371	964	221	134	50	1183	13	1682	83	11	49	4016
105	282	237	1	15	3	29	-208	534	8461	992	212	118	59	1188	12	1674	87	18	62	3984
106	283	237	2	51	3	29	-209	534	8421	972	261	161	51	1206	11	1674	174	18	46	3905
107	44	237	4	26	3	29	-212	534	8348	923	215	131	67	1217	10	1719	101	15	60	3853
108	285	237	6	0	3	30	-215	534	8488	971	221	135	62	1215	12	1727	108	15	43	3900
109	95	237	7	36	3	30	-215	534	8359	969	205	130	52	1225	14	1591	122	23	46	3970
110	96	237	9	11	3	30	-215	534	8471	965	237	128	51	1227	15	1735	72	20	56	3850
111	97	237	10	47	3	30	-215	534	8449	917	203	116	63	1231	9	1561	96	24	66	3914
112	98	237	12	21	3	26	-214	534	8564	996	228	144	49	1234	12	1780	124	31	60	3823
113	89	237	12	32	2	24	-216	534	8577	998	218	142	47	1237	12	1844	131	35	66	3825
114	99	237	13	56	3	28	-215	534	8550	979	245	115	53	1233	12	1657	103	21	61	3837
115	58	237	14	12	2	20	-216	535	8635	986	241	96	58	1227	11	1611	86	22	60	3821
116	242	237	15	56	2	17	-217	534	8523	980	211	122	43	1204	13	1627	91	24	54	3934
117	243	237	17	5	3	30	-214	535	8635	934	235	114	55	1220	17	1845	132	12	49	3904
118	244	237	18	41	3	27	-214	535	8854	941	243	128	51	1232	9	1711	97	22	66	4063
119	245	237	20	16	3	30	-212	534	8492	986	236	106	51	1222	9	1645	106	22	51	4048
120	246	237	21	51	3	29	-209	535	8747	926	221	133	66	1209	14	1704	122	19	39	4137
121	105	237	23	26	3	29	-205	535	8675	994	241	120	47	1205	10	1611	121	21	50	4110
122	106	238	1	1	3	30	-200	535	8631	992	231	123	62	1219	10	1746	110	20	52	4234
123	107	238	2	37	3	30	-197	535	8646	956	233	145	64	1219	8	1824	138	15	61	4294
124	108	238	4	13	3	29	-198	535	8634	973	233	113	55	1194	16	1670	85	20	59	4278
125	109	238	5	46	3	30	-196	535	8700	927	267	127	42	1231	14	1569	92	20	50	4281
126	68	238	5	54	2	26	-198	535	8725	928	261	130	42	1232	12	1562	91	19	50	4280
127	69	238	7	21	3	30	-197	535	8672	984	228	133	75	1214	15	1748	110	32	67	4258
128	70	238	8	56	3	30	-196	535	8614	1009	260	118	67	1203	17	1626	97	19	50	4253
129	71	238	10	32	3	29	-199	535	8726	1002	213	109	59	1189	14	1686	105	23	57	4236
130	92	238	12	16	2	20	-197	535	8176	917	299	132	62	1126	17	1621	85	29	52	4108
131	93	238	13	41	3	29	-197	535	8847	974	244	129	50	1135	14	1552	119	26	58	4320
132	116	238	16	52	3	29	-197	535	9047	972	258	109	44	1128	13	1749	107	26	66	4377
133	117	238	18	26	3	29	-194	535	8993	1014	229	120	60	1134	13	1785	110	17	41	4411
134	118	238	20	2	1	20	-192	535	8993	938	252	133	55	1124	18	1775	101	18	62	4411
135	208	238	21	36	3	30	-192	535	8930	947	240	140	55	1134	13	1825	107	25	56	4498
136	209	238	23	12	1	26	-190	535	9206	977	256	138	66	1139	17	2044	108	18	52	4484
137	211	239	0	46	3	30	-186	535	8958	1001	201	123	50	1091	14	1901	84	20	52	4550
138	212	239	2	23	3	30	-184	535	9024	995	252	128	53	1111	14	1682	110	25	73	4545
139	213	239	3	59	3	30	-186	535	9076	956	243	137	75	1112	16	1673	99	21	58	4636
140	213	239	3	59	3	30	-186	535	9076	956	243	137	75	1112	16	1673	99	21	58	4636
141	215	239	7	7	3	30	-186	535	9236	1009	230	128	59	1092	13	1796	108	26	73	4620
142	216	239	8	42	3	30	-185	535	9190	973	265	114	70	1077	19	1721	67	26	55	4710
143	217	239	10	18	3	26	-189	536	8529	906	261	142	69	1030	10	1715	90	27	57	4369
144	218	239	11	52	3	28	-185	536	9270	1068	257	132	60	1060	15	1776	123	25	64	4611
145	219	239	13	27	3	29	-186	536	9566	1017	266	151	55	1078	11	2001	103	24	65	4615
146	220	239	15	3	3	28	-187	536	9234	1021	236	116	62	1088	13	1691	100	21	62	4706
147	221	239	16	37	3	30	-188	536	9557	1026	230	123	57	1079	19	1756	120	27	54	4653
148	222	239	18	12	3	28	-185	535	9383	984	266	155	59	1066	11	1900	99	24	50	4749
149	223	239	19	48	3	28	-184	536	9380	1005	273	123	52	1075	16	1757	112	27	57	4744
150	224	239	21	22	3	29	-182	536	9491	1020	238	138	60	1039	15	1968	126	21	67	4781

LAST
Records

ID	NDA	DAY	HR	MT	N&K	IK	PITCH	SPIN	304	180	256	835	CNT	ELT	SCT	584	537	991	1175	LYA
5751	61	13	7	15	3	28	-61	520	24	10	1	3	3	865	0	0	0	1	10	110
5752	62	13	8	50	3	30	-58	520	30	10	3	1	1	843	0	0	0	1	1	109
5753	63	13	10	25	3	30	-55	520	34	8	1	3	0	830	0	0	0	2	1	110
5754	64	13	12	0	3	29	-51	520	38	7	1	1	2	844	0	0	0	3	2	112
5755	65	13	13	35	3	27	-46	520	8	1718	24	111	6	820	0	0	0	30	25	98
5756	66	13	15	10	3	26	-40	520	0	103	0	11	1	849	0	0	0	1	1	93
5757	68	13	17	7	2	17	-33	520	47	13	5	3	2	858	0	0	0	1	1	116
5758	69	13	18	20	3	28	-31	520	38	23	2	3	5	873	0	0	0	4	2	120
5759	70	13	19	53	3	26	-28	520	41	9	2	1	3	847	0	0	0	0	0	123
5760	71	13	21	28	3	29	-27	520	33	12	0	1	1	850	0	0	0	1	0	124
5761	72	13	23	3	3	28	-26	520	35	6	1	1	0	839	0	0	0	1	0	124
5762	73	14	0	38	3	26	-25	520	31	7	1	1	0	847	0	0	0	0	0	124
5763	74	14	2	13	3	28	-25	520	38	9	3	0	1	859	0	0	0	0	0	125
5764	75	14	6	57	3	29	-21	520	33	14	0	1	0	832	0	6	0	1	0	123
5765	76	14	8	32	3	28	-18	520	33	10	1	1	2	841	0	0	0	1	0	127
5766	77	14	10	7	3	27	-13	520	43	12	0	2	1	840	0	0	2	1	1	137
5767	78	14	11	42	3	28	-9	520	48	6	1	1	1	851	0	0	0	0	0	142
5768	79	14	13	16	3	25	-7	520	0	0	0	0	0	0	0	0	0	0	0	0
5769	80	14	14	52	3	27	2	520	0	45	1	2	0	839	0	0	0	0	0	86
5770	82	14	16	47	2	17	9	520	52	29	10	13	7	888	0	0	0	8	3	145
5771	83	14	18	1	3	28	10	520	46	7	4	1	1	834	0	0	0	2	1	171
5772	84	14	19	35	3	25	13	520	67	11	1	0	1	853	0	0	0	4	2	176
5773	85	14	21	10	3	28	14	520	64	11	4	1	2	846	0	0	0	1	0	208
5774	86	14	22	46	3	26	15	520	48	6	0	0	1	835	0	0	0	0	0	170
5775	87	15	0	20	3	28	16	520	53	8	0	0	1	828	0	0	0	0	0	172
5776	88	15	1	54	1	30	17	520	52	9	0	0	1	836	0	0	0	1	0	170
5777	89	15	5	4	3	28	18	520	55	7	1	0	0	845	0	0	0	0	0	173
5778	90	15	6	40	3	28	20	520	53	7	0	1	0	854	0	0	0	0	0	177
5779	91	15	8	14	3	29	23	520	58	11	0	0	1	839	0	0	0	1	0	177
5780	92	15	9	49	3	28	27	520	63	6	0	1	1	1128	0	0	0	3	0	180
5781	93	15	11	24	3	27	32	520	61	9	2	1	1	829	0	0	0	2	1	195
5782	94	15	12	59	3	27	37	520	0	0	0	0	0	0	0	0	0	0	0	0
5783	95	15	14	33	3	25	-39	520	1	109	1	7	1	865	0	0	0	0	0	96
5784	97	15	16	29	2	13	-52	520	37	22	8	4	6	898	0	11	0	3	1	108
5785	98	15	17	44	3	26	-50	520	28	26	4	10	5	846	0	0	0	4	1	111
5786	99	15	19	19	3	27	-47	520	28	9	1	1	4	874	0	0	0	5	1	111
5787	100	15	20	52	3	28	-48	520	30	8	2	2	2	846	0	0	0	3	0	109
5788	101	15	22	27	3	28	-45	520	18	9	0	1	2	858	0	0	0	2	1	110
5789	102	16	0	2	3	29	-43	520	26	9	1	1	1	847	0	0	0	1	1	110
5790	103	16	1	36	3	28	-47	520	30	8	1	0	1	850	0	0	0	0	0	106
5791	104	16	3	13	3	18	-44	520	24	20	3	1	3	803	0	0	84	0	0	100
5792	105	16	4	46	3	29	-42	520	22	10	0	1	1	839	0	0	0	2	2	112
5793	106	16	6	21	3	26	-42	520	21	5	1	1	1	857	0	0	0	3	1	105
5794	107	16	7	56	3	28	-38	520	17	9	0	2	3	846	0	0	0	0	0	113
5795	108	16	9	31	3	26	-35	520	29	7	1	0	1	838	0	0	0	0	0	109
5796	109	16	11	5	3	26	-37	520	34	6	1	3	3	856	0	0	0	2	1	113
5797	110	16	12	40	3	27	-23	520	0	0	0	0	0	0	0	0	0	0	0	0
5798	111	16	14	15	3	27	-15	521	4	225	3	12	0	891	0	0	0	3	1	90
5799	113	16	16	10	0	12	-13	520	46	19	5	3	0	878	0	0	0	6	5	126
5800	114	21	1	40	3	30	-39	528	23	6	0	1	0	852	0	0	0	1	1	108

ID	NDA	DAY	HR	MT	N&K	IK	PITCH	SPIN	304	180	256	835	CNT	ELT	SCT	584	527	991	1175	LYA
5801	115	21	3	15	3	30	-38	528	19	15	1	0	0	847	0	0	0	2	1	109
5802	116	21	4	50	3	29	-36	528	20	9	1	1	0	857	0	0	0	0	0	109
5803	117	21	6	24	3	29	-33	529	22	8	1	0	2	859	0	0	0	2	1	111
5804	118	21	7	59	3	30	-29	528	27	8	1	0	1	860	0	0	0	3	2	108
5805	119	21	9	34	3	30	-24	529	31	8	0	0	3	853	0	0	0	1	0	112
5806	120	21	11	9	3	29	-19	529	0	228	2	7	0	845	0	0	18	2	1	92
5807	121	21	12	48	2	27	-13	530	33	19	12	2	8	873	0	0	0	9	4	112
5808	122	21	14	18	3	27	-9	530	39	19	2	3	1	842	0	0	0	2	1	113
5809	123	21	15	56	3	27	-5	531	44	11	3	4	7	878	0	0	0	4	3	115
5810	124	21	17	28	3	28	-3	530	37	12	1	1	0	868	0	0	0	3	4	122
5811	125	21	19	3	3	29	-1	531	30	11	1	0	0	877	0	0	0	0	0	123
5812	126	21	20	38	3	29	0	530	44	8	0	0	1	871	0	0	0	0	0	130
5813	127	21	22	12	3	30	1	530	47	7	1	1	1	878	0	0	0	1	0	121
5814	128	21	23	47	3	28	1	530	34	11	1	1	0	857	0	0	0	0	0	124
5815	129	22	1	22	1	13	1	530	29	7	0	0	0	870	0	0	0	1	1	120
5816	130	22	4	31	3	30	4	530	42	11	1	1	0	862	0	0	0	1	0	127
5817	131	22	6	6	3	30	6	530	44	12	0	1	2	873	0	0	0	2	1	125
5818	132	22	7	41	3	30	11	530	40	11	2	1	1	855	0	0	0	1	1	127
5819	133	22	9	16	3	30	17	530	37	9	1	2	1	855	0	0	0	2	2	138
5820	134	22	10	51	3	29	21	531	0	0	0	0	0	858	0	0	0	0	0	86
5821	135	22	12	31	2	25	27	531	46	17	9	5	3	874	0	0	0	6	3	144
5822	136	22	14	0	3	28	31	532	45	24	2	3	9	872	0	0	0	1	17	160
5823	137	22	15	35	3	29	17	532	47	20	1	3	3	868	0	0	0	4	0	144
5824	138	22	17	9	3	30	-63	532	16	17	8	9	8	878	0	0	0	4	3	110
5825	139	22	18	44	3	29	-61	532	19	4	0	1	1	854	0	0	0	3	2	108
5826	140	22	20	19	3	30	-59	532	15	11	2	1	0	865	0	0	0	1	0	108
5827	141	22	21	54	1	23	-59	532	12	8	1	0	0	865	0	0	0	3	1	106
5828	142	23	2	39	3	28	-57	531	16	8	2	1	1	879	0	0	0	0	0	107
5829	143	23	4	13	3	30	-55	531	17	11	1	1	0	885	0	0	0	1	1	109
5830	144	23	5	48	3	30	-53	531	15	14	0	1	0	865	0	0	0	0	0	107
5831	145	23	7	23	3	30	-50	532	16	9	3	0	1	865	0	0	0	3	1	108
5832	146	23	8	58	3	29	-46	531	27	7	1	2	0	851	0	0	0	3	2	110
5833	147	23	10	31	3	30	-41	532	0	478	10	17	10	879	0	0	0	8	7	97
5834	148	23	12	10	2	27	-36	532	19	17	2	1	9	863	0	0	0	4	3	112
5835	149	23	13	41	3	29	-33	532	21	10	2	5	3	892	0	0	0	3	0	112
5836	150	23	15	17	3	24	-29	530	38	35	11	12	8	863	0	0	0	10	7	112
5837	151	23	16	51	3	30	-28	532	20	14	2	0	2	873	0	0	0	2	0	105
5838	152	23	18	26	3	30	-26	532	24	8	0	0	2	868	0	0	0	1	0	109
5839	153	23	20	1	3	28	-26	532	31	11	1	1	2	869	0	0	0	0	0	108
5840	154	23	21	35	1	23	-26	531	18	13	0	0	0	874	0	0	0	2	1	105
5841	155	24	0	45	3	28	-26	532	24	11	0	1	1	853	0	0	0	0	0	108
5842	156	24	2	21	3	29	-27	531	24	9	0	1	1	857	0	0	0	2	1	104
5843	157	24	3	54	3	29	-27	531	33	10	0	1	0	864	0	0	0	0	0	109
5844	158	24	5	29	3	29	-26	531	26	8	2	0	1	892	1	0	0	1	0	106
5845	159	24	7	4	3	30	-23	531	31	9	1	2	1	865	0	0	0	1	1	112
5846	160	24	8	39	3	30	-21	531	34	7	1	21	0	884	0	2	0	3	1	111
5847	161	24	10	14	3	29	-17	531	0	218	5	14	4	853	0	0	0	3	1	91
5848	162	24	11	51	2	28	-12	532	35	12	1	1	2	860	0	0	0	1	1	111
5849	163	24	13	23	3	30	-12	532	38	26	10	5	7	864	0	0	0	3	2	113
5850	164	24	14	58	3	27	-8	531	42	14	10	7	3	894	0	0	0	8	3	120

ID	NDA	DAY	HR	MT	N&K	IK	PITCH	SPIN	304	180	256	835	CNT	ELT	SCT	584	537	991	1175	LYA
5851	165	24	16	33	3	29	-8	531	43	14	3	0	4	864	0	0	0	2	0	114
5852	166	24	18	7	3	29	-7	531	35	8	0	0	0	867	0	0	0	2	0	115
5853	167	24	19	42	1	19	-8	531	26	6	2	0	0	851	0	0	0	0	0	117
5854	168	272	16	18	2	18	-30	520	0	0	0	0	0	0	0	0	0	0	0	0
5855	169	272	17	27	1	13	-34	520	0	0	0	0	0	0	0	0	0	0	0	0

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REC

1. LENGTH 1814

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REC

2. LENGTH 1814

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REC 3, LENGTH 1814

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REC 4, LENGTH 1814

[illegible][illegible]

REC	9, LENGTH	1814
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[illegible]

REC 10, LENGTH 1814