

#290

IMP-I

HOURLY AVG ION PLASMA PARAM

71-019A-11B

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1. INTRODUCTION:

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 This inventory information is now no longer maintained in the DSCs, but is now managed in the inventory part of the NSSDC information system.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

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

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

2. ERRATA/CHANGE LOG:

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

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

Version	Date	Person	Page	Description of Change
01				
02				

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

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

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

4. CATALOG MATERIALS:

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

- b. Core Catalog Materials

IMP-I

HOURLY AVG ION PLASMA PARAM. TAPE

71-019A-11B

SPMS-00639

THIS DATA SET HAS BEEN RESTORED. ORIGINALLY IT CONTAINED TWO 7-TRACK, 800 BPI TAPES WRITTEN IN BINARY. THERE IS ONE RESTORED TAPE. THE DR TAPE IS A 3480 CARTRIDGE AND THE DS TAPE IS 9-TRACK, 6250 BPI. THE ORIGINAL TAPES WERE CREATED ON A CDC 6600 COMPUTER AND WERE RESTORED ON AN IBM 9021 COMPUTER. THE DR AND DS NUMBER ALONG WITH THE CORRESPONDING D NUMBER AND TIME SPAN ARE AS FOLLOWS:

DR#	DS#	D#	FILES	TIME SPAN
DR004087	DS004087	D017524	1-7	03/18/71 - 07/26/72 (a)
		D022959	8-10	01/02/73 - 07/27/73

a) D017524 - 1 ERROR, RECORD 1, FILE 3

REQ. AGENT
VJP
WTJ

RAND NO.
RC2826
RC5252

ACQ. AGENT
DJH

IMP-I

HOURLY AVG. ION PLASMA PARAM.

71-019A-11B

This data set consists of 2 IMP-I Hourly Averaged Ion Plasma Parameter Data tapes. The tapes are 800 BPI, Binary, 7 track and was created on a CDC 6600 computer. Each logical record consists of 6 floating point 60 bit words.

<u>D#</u>	<u>C#</u>	<u>FILES</u>	<u>TIME SPAN</u>
D-17524	C-13899	7	3/18/71 - 7/26/72
D-22959	C-17457	3	1/02/73 - 7/27/73

IMP-I

HOURLY AVG ION PLASMA PARAMETER

71-019A-11B

FORMAT

<u>FIELD</u>	<u>IDENTIFICATION</u>	<u>FORMAT</u>
1	Date (YRMNDY)	F10.1
2	Hour	F10.1
3	Proton Density	F10.3
4	Solar Wind Speed	F10.3
5	Avg Proton Temperature	F10.3
6	Number of Points	F10.1

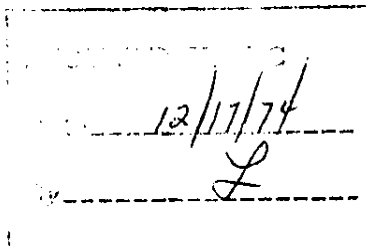
The data are written in CDC floating point format.

UNIVERSITY OF CALIFORNIA
LOS ALAMOS SCIENTIFIC LABORATORY
(CONTRACT W-7405-ENG-36)
P. O. Box 1663
Los Alamos, New Mexico 87544

01315

IN REPLY

REFER TO: P-4U:74-776



December 12, 1974

DEC 17 1974

~~12/17/74~~

(m)

Dr. James Vette, Code 601
National Space Science Data Center
NASA Goddard Space Flight Center
Greenbelt, MD 20771

Dear Jim:

Under separate cover we are sending solar wind data for the first two seasons of IMP 6. It is in the form of one-hour averages of the solar wind speed, proton density and average proton temperature because that is the form that is presently in the cleanest shape. We are proceeding with preparing the full data set to send to NSSDC and hope to have it available soon. If any problems arise with reading the tape, you can have your people call Earl Tech at (505) 667-5559.

I hope this data set will be of value to your users. It has taken longer than I would have chosen to get it out, but as you know, we have a rather limited staff so that we must allocate our time carefully.

Best regards,

S. J. Bame

SJB:ns

cc: File
ISD-5 (2)

PROGRAM LIST(INPUT,OUTPUT,TAPE2)

THIS PROGRAM LISTS A SWAVE TAPE

```

C
C
105  DIMENSION Y(510)
      IEOF = 0
      IFILE = 1
      PRINT 900,IFILE
      PRINT 902
10    BUFFER IN(2,1)(Y(1),Y(510))
11    IF(UNIT,2) 11,20,100,20
20    NWR = LENGTH(2)
      IEOF = 0
      DO 30 I = 1,NWR,6
30    PRINT 901,Y(I),Y(I+1),Y(I+2),Y(I+3),Y(I+4),Y(I+5)
      GO TO 10
100   IFILE = IFILE + 1
      IEOF = IEOF + 1
      IF(IEOF.EQ.2) STOP
      GO TO 105
900   FORMAT(*1 FILE*15)
901   FORMAT(1X,2F10.1,3E10.3,F10.1)
902   FORMAT(*    DATE    HOUR    DENSITY    VELOCITY    TEMPERATURE
      *NPTS*)
      END
```

EOF-PARITY-ERROR TAPE CHECK RUN BEGINS.

D-175.24

AN END-OF-FILE HAS BEEN ENCOUNTERED ON PHYSICAL RECORD NO.	12	OF FILE NO.	1
AN END-OF-FILE HAS BEEN ENCOUNTERED ON PHYSICAL RECORD NO.	13	OF FILE NO.	2
AN END-OF-FILE HAS BEEN ENCOUNTERED ON PHYSICAL RECORD NO.	5	OF FILE NO.	3
AN END-OF-FILE HAS BEEN ENCOUNTERED ON PHYSICAL RECORD NO.	13	OF FILE NO.	4
AN END-OF-FILE HAS BEEN ENCOUNTERED ON PHYSICAL RECORD NO.	13	OF FILE NO.	5
AN END-OF-FILE HAS BEEN ENCOUNTERED ON PHYSICAL RECORD NO.	13	OF FILE NO.	6
AN END-OF-FILE HAS BEEN ENCOUNTERED ON PHYSICAL RECORD NO.	3	OF FILE NO.	7
AN END-OF-FILE HAS BEEN ENCOUNTERED ON PHYSICAL RECORD NO.	1	OF FILE NO.	8
AN END-OF-FILE HAS BEEN ENCOUNTERED ON PHYSICAL RECORD NO.	1	OF FILE NO.	9
AN END-OF-FILE HAS BEEN ENCOUNTERED ON PHYSICAL RECORD NO.	1	OF FILE NO.	10
INPUT TAPE HAS 38.87 FEET OF DATA			

EOF-PARITY-ERROR TAPE CHECK RUN HAS ENDED.

D-17524

5/18/71-7/26/72

0001 174353265340	000000001723	400000000000	000017214146	627003624407	173065134037	230747051737	674247555473
0002 174353265340	000000000000	174353265340	000000000723	440000000000	000017215610	34074770613	173065663733
0003 535067051737	45244340272	108173265340	000000000000	174353265340	000000001723	500000000000	000017215653
0145 412753576751	173065540272	261363321740	430707473775	627617224000	000000000000	174353265340	000000001723
0193 540000000000	000017215764	157275741506	173064614655	626316001740	420742525364	204417246000	000000000000
0241 174353265340	000000001723	600000000000	000017216102	334733136161	173066778761	537426271737	620106004165
0289 570117247400	000000000000	174353265340	000000001723	640000000000	000017215755	566540316640	173066502516
0337 312267621737	602137326726	532517244600	000000000000	174353265340	000000001723	700000000000	000017216077
0385 064128377231	173065600361	315230741737	56621131226	636317263700	000000000000	174353265340	000000001723
0431 740000000000	000017216515	746412327007	173063635641	044727021737	642273130336	503517247600	000000000000
0481 174353265340	0000000001724	400000000000	000017216344	266343712322	173063461144	705251021737	610761270511
0529 633217247200	000000000000	174353265340	000000001724	420000000000	000017216256	464307231104	173063564634
0577 166320211737	643167100066	502517247400	000000000000	174353265340	000000001724	440000000000	000017216267
0625 331360610032	173061643671	410531051737	627643117320	050717254100	000000000000	174353265340	000000001724
0673 400000000000	000017216377	747174463100	173064440736	33308181737	571360361630	761072303700	000000000000
0721 174353265340	000000001724	500000000000	000017216423	001074077447	173064255655	576743061737	622545401551
0769 662317246200	000000000000	174353265340	000000001724	520000000000	000017216256	246400461710	173064202161
0817 417780671737	634353118311	22077247400	000000000000	174353265340	000000001724	540000000000	000017217030
0865 051605365346	173061643671	611643761737	603634020076	763617247400	000000000000	174353265340	000000001724
0913 560000000000	000017216733	074276235235	173063111753	440626401737	727521437037	250517246600	000000000000
0961 174353265340	0000000001724	600000000000	000017216771	751263000000	173063580403	2643770737	67410837791
1009 306117246400	000000000000	174353265360	000000001720	400000000000	000017217073	305701100576	173062602751
1057 042653711737	676243271200	206317247200	000000000000	174353265360	000000001721	400000000000	000017217672
1105 257544675644	173061621037	327474411737	667246445677	270617246400	000000000000	174353265360	000000001721
1153 600000000000	000017217347	563473107424	173062427156	245650161737	72323217642	604117237400	000000000000
1201 174353265360	000000001722	400000000000	000017216677	201550374262	173063417762	435604621737	634154523643
1249 620017235400	000000000000	174353265360	000000001722	500000000000	000017224041	682506726437	17306286734
1297 415544431737	656265404535	511217246600	000000001722	174353265360	000000001722	600000000000	000017217722
1345 531625212763	173061435727	070566771737	666135715271	173117244000	000000000000	174353265360	000000001722
1393 700000000000	000017217633	570341210115	173062474114	377167191737	77462531403	411517247400	000000000000
1441 174353265360	000000001723	400000000000	000017224056	736025456723	173061473542	56250421737	706252651125
1489 740417247000	000000000000	174353265360	000000001723	440000000000	000017224016	226661551045	173061443664
1537 2117247200	747072321737	113353265360	000000000000	507317247600	000000000000	174353265360	000000001723
1585 545373521524	173061674110	032734701737	777166106514	507317247600	000000000000	174353265360	000000001723
1633 540000000000	000017224254	154475723301	173062304342	705556271740	413646442524	553017247200	000000000000
1681 174353265360	000000001723	600000000000	000017226075	174676023165	173063334302	660163311740	53467376773
1729 427117245209	000000000000	174353265360	000000001723	640000000000	000017235456	607752440262	173070527713
1777 252721711741	527321274720	273217247200	000000000000	174353265360	000000001723	700000000000	000017235506
1825 107144527434	173071002725	7001607141	51133541053	205617245200	000000000000	174353265360	000000001723
1873 740000000000	000017234765	401541377035	173070154641	644675151741	442054115350	756017244400	000000000000
1921 174353265360	000000001724	400000000000	000017234174	122057371466	173065257672	425371351741	407230304674
1969 60117245600	000000000000	174353265360	000000001724	420000000000	000017227465	115746742154	173064407764
2017 314355161743	7740722554746	043317247200	000000000000	174353265360	000000001724	440000000000	000017234065
2065 526505501165	173063156732	312717421740	704165152575	024417254000	000000000000	174353265360	000000001724
2113 460000000000	000017224727	015630574630	173065755614	426563831740	501602384400	426617247000	000000000000
2161 174353265360	000000001724	500000000000	000017227261	353420740037	173061455045	654677121740	544216234536
2209 346017247400	000000000000	174353265360	000000001724	520000000000	000017227465	733230460635	173057164706
2257 746551041740	526444460067	360417247000	000000000000	174353265360	000000001724	540000000000	000017227445
2305 665127676410	173057777140	305202541740	474144601750	713217247600	000000000000	174353265360	000000001724
2353 560000000000	000017226275	652214757231	173057334766	032313121740	477311337751	131617254000	000000000000
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2449 454017247200	000000000000	174353265400	000000001720	400000000000	000017225327	011624574763	173064273072
2497 556754431740	465551260143	402117246400	000000000000	174353265400	000000001721	400000000000	000017224113
2545 524366531716	173057734700	656041413737	752067226453	471417247000	000000000000	174353265400	000000001721
2593 600000000000	000017216553	212005222631	173062250306	674744641737	505257402467	572117246200	000000000000
2641 174353265400	000000001722	400000000000	000017216555	175757521014	173062261542	431331211737	506456530224
2689 631317237400	000000000000	174353265400	000000001722	506000000000	000017215346	634273323171	173063534027
2737 041760041737	506514304217	330017226000	000000000000	174353265400	000000001722	600000000000	000017244022
2785 370000000000	173062216336	543333333333	570707070707	303207461737	000000000000	174353265400	000000000000
2833 700000000000	000017207632	302555506070	173064665510	303207461737	671656255660	374617246400	000000000000
2881 174353265400	000000001723	400000000000	000017225045	465345533121	173067024100	144742361737	542303736521
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3073	600000000000	000017236635	213006737653	173044661677	6103466231737	422116702400	642717245000	000000000000
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3169	507017247000	000000000000	174353772120	000000001721	400000000000	000017244121	245307011016	173046630432
3217	074754561736	640476657156	441017247000	000000000000	174353772120	0000000001721	600000000000	000017237106
3265	075147477761	173047072435	153036561737	402111460510	504217247200	000000000000	174353772120	0000000001722
3313	400000000000	000017235015	660667400233	173046755477	6344646321737	611451116620	143017246400	000000000000
3361	174353772120	000000001722	500000000000	000017235071	453757566254	173045572240	1172138577240	173047622145
3409	245617247000	000000000000	566517247000	000000000000	174353772120	0000000001722	700000000000	000000000000
3457	656356631744	42325646231	411204744604	000000000000	545717246600	000000000000	174353772120	000000000000
3505	762636300444	173050420303	220131661740	173050365872	436307221740	430537746526	440417235600	000000000000
3553	400000000000	000017234253	250553127571	000017234204	740433722426	173050115774	764011601740	000000000000
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3697	606327441737	524224735455	111017247000	000000000000	174353772120	0000000001723	174353772120	000000000000
3745	152675136671	173051523064	143757071737	52117326371	210617247200	000000000000	174353772120	000000000000
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3889	661417247000	000000000000	174353772120	0000000001723	700000000000	0000000001723	714270160434	173053050553
3937	707347401740	431730530557	423317247000	000000000000	174353772120	0000000001723	740000000000	000017237313
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4081	174353772120	0000000001724	420000000000	000017236225	140367621136	173053504436	154714461740	543521176072
4129	412117247200	000000000000	174353772120	0000000001724	430600000000	0000000001724	435866325341	173053171110
4177	575551241740	671715552314	315117246400	000000000000	174353772120	0000000001724	460000000000	0000000001724
4225	733747701656	173053727215	267704531740	646334247552	332417246600	000000000000	174353772120	0000000001724
4273	500000000000	000017235260	571736301093	173054423213	403742761740	762266124332	230417247900	000000000000
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4369	140217246600	000000000000	174353772120	0000000001724	540000000000	000017234515	520704650331	173056250520
4417	702301671740	722071070005	641372464000	000000000000	174353772120	0000000001724	560000000000	000017234524
4465	203101274675	173056061174	7227474711740	746616465333	225517216000	000000000000	174353772220	0000000001724
4513	440000000000	000017224640	724015246375	173051266146	072600431737	401275327610	053417236000	000000000000
4561	174353772120	0000000001724	440000000000	0000000001724	500000000000	000017224777	561070303522	173051447116
4609	342517247000	000000000000	706017247000	000000000000	174353772220	0000000001724	520000000000	000017225060
4657	141717541737	4207333227637	354072501737	423407640253	407517246400	000000000000	174353772220	0000000001724
4705	053002534513	173050706761	236245424544	173047516745	643712662053	516743407074	431217247000	000000000000
4753	540000000000	000017224646	560000000000	000017225055	440172250500	173046755721	032015561737	636311351616
4801	174353772220	0000000001724	174353772220	0000000001724	600000000000	000017225026	774413770133	173046477736
4849	412617244600	000000000000	602117245000	000000000000	174353772240	0000000001720	174353772240	000017225676
4897	471647721737	756470676424	046020141737	533217507124	322117246000	000000000000	174353772240	000000000000
4945	432140064025	173050502522	64626557324	173047515041	067243631737	574077620261	780617246200	000000000000
4993	470000000000	000017225210	600000000000	000017226351	405735413345	173047447460	150520361737	507775633525
5041	174353772240	0000000001721	600000000000	000017226351	405735413345	173047447460	150520361737	507775633525
5089	02657234000	000000000000	600000000000	000017226351	405735413345	173047447460	150520361737	507775633525
FILE 0007 REC 0002 CH 1629								
0001	174353772240	0000000001724	460000000000	000017226102	025456016100	173050276066	122041041737	411712137450
0049	666217225000	000000000000	174353772240	0000000001724	500000000000	000017226350	600413213435	173050254717
0097	653550311736	73547125605	252217234400	000000000000	174353772240	0000000001724	520000000000	000017226460
0145	741334706256	173047773370	54255321737	403501261043	557217247000	000000000000	174353772240	0000000001724
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0337	643196751737	410662425026	302217246600	000000000000	174353772440	0000000001720	174353772440	0000000001721
0385	475244421415	173046451442	763006731736	752621705830	073677246400	000000000000	174353772440	0000000001721
0433	400000000000	000017234030	471061222430	173046034173	707706331736	654376053306	263517247000	000000000000
0481	174353772440	0000000001721	600000000000	000017226571	477462771173	173045317320	462067731736	736552025411
0529	706317246400	000000000000	174353772440	0000000001722	400000000000	000017226355	006315622257	000017226327
0577	646143471736	652681425403	636317246200	000000000000	174353772440	0000000001722	500000000000	0000000001722
0625	644050116063	173047732076	272262561736	527272303555	640417247000	000000000000	174353772440	000000000000
0673	609000000000	000017227020	506366627204	173044642614	717026661736	611206750342	344717246600	000000000000
0721	174353772440	0000000001722	700000000000	000017227603	761111414233	1730445332223	320207611736	500771334151

0769	510317247200	000000000000	174353772440	000000001723	400000000000	000017234115	235673222222	173044240946
0817	663242701736	614027757072	312417246600	000000000000	174353772440	000000001723	440000000000	000017227102
0865	512577141414	173043651537	655462441736	622333176417	374417246400	000000000000	174353772440	00000001723
0913	500000000000	000017234074	035132712766	173043557345	566030131736	616066511107	064617234400	000000000000
0961	174353772520	000000001724	540000000000	000017225344	307536371312	173143402211	462234461741	441245145044
1009	076317234400	000000000000	174353772520	000000001724	560000000000	000017225640	466535471062	173143542630
1057	437642461740	737337620563	065517245400	000000000000	174353772520	000000001724	600000000000	000017226613
1105	102560047636	173142174614	364503421741	532236130325	244317234002	000000000000	174353772540	00000001720
1153	400000000000	000017226234	205367642661	173141442255	456120701741	540671177736	306717246500	000000000000
1201	174353772540	000000001721	400000000000	000017227144	110053061346	173141267713	363663661744	526151443045
1249	425217246200	000000000000	174353772540	000000001721	600000000000	000017226661	323242637153	173141061247
1297	111230511741	427072430631	305217247000	000000000000	174353772540	000000001722	400000000000	000017226514
1345	014630664057	173142174125	423627711741	455061224366	621617247200	000000000000	174353772540	000000001722
1393	500000000000	000017226477	314755500334	173142133146	441736001741	563730716733	426417246400	000000000000
1441	174353772540	000000001722	600000000000	000017225676	220755224767	173142052161	675012441741	451263323621
1489	777117247200	000000000000	174353772540	000000001722	700000000000	000017225351	002406510436	173143062064
1537	050732021741	543242750521	407317246400	000000000000	174353772540	000000001723	400000000000	000017226430
1585	751135156341	173142042351	511603761741	732054041707	354617235000	000000000000		

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DATE	HOUR	DENSITY	VELOCITY	TEMPERATURE	NPTS
710318.0	8.0	2.100E+00	4.254E+02	5.687E+04	14.0
710318.0	9.0	2.883E+00	4.308E+02	7.643E+04	17.0
710318.0	10.0	2.918E+00	4.295E+02	7.191E+04	16.0
710318.0	11.0	2.988E+00	4.222E+02	6.987E+04	24.0
710318.0	12.0	3.165E+00	4.400E+02	5.122E+04	30.0
710318.0	13.0	2.982E+00	4.340E+02	4.943E+04	19.0
710318.0	14.0	3.162E+00	4.301E+02	4.791E+04	33.0
710318.0	15.0	3.323E+00	4.145E+02	5.355E+04	31.0
710318.0	16.0	3.223E+00	4.128E+02	5.030E+04	29.0
710318.0	17.0	3.170E+00	4.137E+02	5.366E+04	30.0
710318.0	18.0	3.179E+00	4.142E+02	5.220E+04	33.0
710318.0	19.0	3.250E+00	4.205E+02	4.831E+04	8.0
710318.0	20.0	3.269E+00	4.187E+02	5.155E+04	25.0
710318.0	21.0	3.170E+00	4.180E+02	5.279E+04	30.0
710318.0	22.0	3.524E+00	3.986E+02	4.964E+04	30.0
710318.0	23.0	3.464E+00	4.092E+02	6.037E+04	27.0
710318.0	24.0	3.494E+00	4.138E+02	5.685E+04	26.0
710319.0	1.0	3.558E+00	4.060E+02	5.713E+04	29.0
710319.0	2.0	3.932E+00	3.984E+02	5.623E+04	23.0
710319.0	3.0	3.726E+00	4.044E+02	5.981E+04	15.0
710319.0	4.0	3.437E+00	4.122E+02	5.276E+04	11.0
710319.0	5.0	3.166E+00	4.056E+02	5.509E+04	27.0
710319.0	6.0	3.995E+00	3.965E+02	5.609E+04	16.0
710319.0	7.0	3.912E+00	4.049E+02	6.511E+04	30.0
710319.0	8.0	4.092E+00	3.969E+02	5.815E+04	28.0
710319.0	9.0	4.028E+00	3.966E+02	6.335E+04	25.0
710319.0	10.0	4.273E+00	3.989E+02	6.544E+04	31.0
710319.0	11.0	4.336E+00	4.031E+02	6.856E+04	29.0
710319.0	12.0	6.120E+00	4.114E+02	8.931E+04	21.0
710319.0	13.0	1.118E+01	4.534E+02	1.758E+05	29.0
710319.0	14.0	1.127E+01	4.560E+02	1.685E+05	21.0
710319.0	15.0	9.959E+00	4.497E+02	1.485E+05	18.0
710319.0	16.0	8.485E+00	4.267E+02	1.348E+05	23.0
710319.0	17.0	7.594E+00	4.200E+02	1.301E+05	29.0
710319.0	18.0	8.210E+00	4.097E+02	1.158E+05	32.0
710319.0	19.0	7.545E+00	4.076E+02	9.875E+04	28.0
710319.0	20.0	7.347E+00	3.967E+02	9.121E+04	30.0
710319.0	21.0	7.605E+00	3.778E+02	8.619E+04	28.0
710319.0	22.0	7.574E+00	3.840E+02	8.094E+04	31.0
710319.0	23.0	6.371E+00	3.795E+02	8.176E+04	32.0
710319.0	24.0	5.601E+00	3.778E+02	8.259E+04	29.0
710320.0	1.0	5.420E+00	3.709E+02	7.928E+04	26.0
710320.0	2.0	4.148E+00	3.835E+02	6.273E+04	28.0
710320.0	3.0	3.355E+00	4.026E+02	4.164E+04	25.0
710320.0	4.0	3.357E+00	4.028E+02	4.180E+04	15.0
710320.0	5.0	2.725E+00	4.038E+02	4.181E+04	6.0
710320.0	6.0	2.718E+00	4.102E+02	4.825E+04	7.0
710320.0	7.0	1.950E+00	4.228E+02	5.656E+04	26.0
710320.0	8.0	5.673E+00	4.403E+02	4.536E+04	10.0
710320.0	9.0	5.895E+00	4.412E+02	5.534E+04	26.0
710320.0	10.0	5.470E+00	4.377E+02	5.081E+04	29.0
710320.0	11.0	5.396E+00	4.505E+02	5.185E+04	24.0
710320.0	12.0	4.796E+00	4.456E+02	5.134E+04	29.0
710320.0	13.0	4.909E+00	4.463E+02	4.600E+04	27.0
710320.0	14.0	4.145E+00	4.375E+02	5.037E+04	5.0
710320.0	15.0	3.324E+00	4.315E+02	4.422E+04	24.0
710320.0	16.0	4.354E+00	4.312E+02	4.576E+04	30.0
710320.0	17.0	4.100E+00	4.204E+02	3.352E+04	30.0
710320.0	18.0	4.115E+00	4.126E+02	2.159E+04	31.0
710320.0	19.0	3.920E+00	4.115E+02	3.412E+04	25.0

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720721.0	21.0	6.596E+00	3.199E+02	3.323E+04	28.0
720721.0	22.0	6.737E+00	3.178E+02	3.097E+04	27.0
720721.0	23.0	6.898E+00	3.156E+02	3.002E+04	28.0
720721.0	24.0	5.945E+00	3.092E+02	3.390E+04	27.0
720722.0	1.0	5.624E+00	3.086E+02	3.141E+04	26.0
720722.0	2.0	8.696E+00	3.044E+02	2.742E+04	28.0
720722.0	3.0	6.738E+00	2.992E+02	3.064E+04	26.0
720722.0	4.0	6.463E+00	2.967E+02	2.732E+04	25.0
720722.0	5.0	6.547E+00	2.954E+02	2.198E+04	28.0
720722.0	6.0	7.132E+00	2.945E+02	2.517E+04	27.0
720722.0	7.0	7.758E+00	2.934E+02	2.535E+04	29.0
720722.0	8.0	8.302E+00	2.905E+02	2.535E+04	27.0
720722.0	9.0	7.130E+00	2.867E+02	2.576E+04	26.0
720722.0	10.0	8.235E+00	2.857E+02	2.548E+04	9.0
720725.0	22.0	5.446E+00	5.681E+02	1.481E+05	9.0
720725.0	23.0	5.814E+00	5.711E+02	1.227E+05	22.0
720725.0	24.0	6.772E+00	5.479E+02	1.773E+05	8.0
720726.0	1.0	6.305E+00	5.371E+02	1.807E+05	27.0
720726.0	2.0	7.196E+00	5.337E+02	1.752E+05	25.0
720726.0	3.0	6.847E+00	5.295E+02	1.429E+05	28.0
720726.0	4.0	6.648E+00	5.471E+02	1.542E+05	29.0
720726.0	5.0	6.624E+00	5.469E+02	1.904E+05	26.0
720726.0	6.0	5.872E+00	5.453E+02	1.522E+05	29.0
720726.0	7.0	5.455E+00	5.616E+02	1.819E+05	26.0
720726.0	8.0	6.549E+00	5.451E+02	2.427E+05	10.0

PROGRAM IMPLIST
C THIS PROGRAM IS TO READ NESS'S IMP I TAPES AND PRODUCE PRINTOUTS
C

DIMENSION BUFF(69,60),IBUFF(69,60),OUT(12,60),8(4,14,1)

1, LR(6),LR(6),LR(6)

EQUIVALENCE (8(2),BUFF(1,1),IBUFF(1,1))

1 WRITE(1,100)

100 FORMAT('0 ENTER START TIME FOR NESS IMP I DATA AND INTERVAL ')

1, TO BE OUTPUT IN MINUTES')

1 WRITE(1,101)

101 FORMAT('0YDODHMMSSMIN')

102 READ(1,102)YEAR,IBDAY,IHR,IMIN,ISEC,MINOUT

102 FORMAT(12,15,512,15)

103 IF(YEAR,1,2)CALL EXIT

103 FORMAT(1H0,515, MINUTS OUTPUT =',14)

WRITE(1,103)YEAR,IBDAY,IHR,IMIN,ISEC,MINOUT

11=1

ASSIGN 901 TO 1604

ASSIGN 900 TO 1604

CALL REWD(5)

CALL AFILE(5,1)

10 CALL READ(5,8,16564,16,1604,1604)

KUP=(16-1)/69

50 TO 11

900 WRITE(1,104)

104 FORMAT('1/0 ERROR')

50 TO 10

901 WRITE(1,902)

902 FORMAT('2 EOF ENCOUNTERED ON UNIT 5')

50 TO 10

11 CONTINUE

IF(YEAR-EO,IBUFF(2,1))GO TO 12

WRITE(1,105)IBUFF(2,1)

105 FORMAT('0 YEAR ON TAPE DIFFERS FROM REQUESTED YEAR/TAPE Y =',

1 14)

CALL REWD(5)

50 TO 1

12 CONTINUE

DO 14 J=1,KUP

INDEX=J

IF(IBUFF(3,J)+1,LT,IBDAY)GO TO 14

IF(IBUFF(3,J)+1,GE,IBDAY)GO TO 15

14 CONTINUE

50 TO 1

15 CONTINUE

11S=ISEC+60*IMIN+5600*IHR+86400*IBDAY

11E=11S+MINOUT*60

DO 2 J=INDEX, KUP

IF(IBUFF(6,J)-EQ,0)GO TO 2

IF(LBUFF(5,J)-GE,0)GO TO 20

IF(LBUFF(5,J)-LT,360)GO TO 20

IF(LBUFF(4,J)-GT,86400)GO TO 2

11E=6400*(IBUFF(5,J)+1)

11E=11E+(IBUFF(4,J)-7680)/1000

11E=11E+11E)GO TO 20

IF(11E,11S)GO TO 16

50 TO 2

16 11E=IBUFF(4,J)-7680

11E=11E/5600000

1X=11E-IHR*3600

