VOYGER 1

77-084A-00E THRU 00F
VG1-J-6-SPK-V1.0
VG1-S-6-SPK-V1.0

77-084A-05G THRU 05N
MAGNETOMETER DATA

77-084A-06L THRU 06M
PLASMA DATA

77-084A-07D THRU 07G

VOYAGER 2

77-076A-00E [illegible] 00H
VG2-S-6-SPK-V1.0, VG2-J-6-SPK-V1.0, VG2-U-6-SPK-V

77-076A-05J THRU 05U
MAGNETOMETER DATA

77-076A-06G THRU 06L
PLASMA DATA

77-076A-07D THRU 07I
PART. ANALYZER/TELESCOPE DATA

VOYGER 1

77-084A-00E THRU 00F
VG1-J-6-SPK-V1.0
VG1-S-6-SPK-V1.0

77-084A-05G THRU 05N
MAGNETOMETER DATA

77-084A-06G THRU 06M
PLASMA DATA

77-084A-07D THRU 07G
PART.ANALYZER/TELESCOPE DATA

VOYAGER 2

77-076A-00E, DOG, 00H
VG2-S-6-SPK-V1.0, VG2-J-6-SPK-V1.0, VG2-U-6-SPK-V1.0

77-076A-05J THRU 05U
MAGNETOMETER DATA

77-076A-06G THRU 06Q
PLASMA DATA

77-076A-07D THRU 07I
PART. ANALYZER/TELESCOPE DATA

THIS CATALOG CONTAINS 53 VOYAGER 1 AND 2 DATA SETS, CONSISTING OF 41 TAPES. ONE TAPE, D79964, IS 1600 BPI ALL OTHER TAPES ARE 6250 BPI, VAX FILES 11 FORMAT, LABELED, AND ARE WRITTEN IN ASCII USING THE DCL COPY COMMAND. THE DATA SET NAMES, AND ID NUMBERS, D AND C NUMBERS, LABEL NAMES AND TIME SPANS FOLLOW:

77-084A-00E VG1-J-6-SPK-V1.0
D-79964 C-28036 02/07/79 - 04/08/79 LABEL = VGRSPK

77-084A-00F VG1-S-6-SPK-V1.0
D-79964 C-28036 09/02/80 - 12/29/80 LABEL = VGRSPK

77-084A-05G VG1_J_POS_4_48.0SEC
D-79993 C-27930 02/28/79 - 03/12/79 LABEL = V1JPOS

77-084A-05H VG1_S-POS_4_48.0SEC
D-79994 C-27931 11/10/80 - 11/28/80 LABEL = V1SPOS

77-084A-05I VG1_J_MAG_4_48.0SEC
D-79995 C-27932 03/03/79 - 03/10/79 LABEL = V1JMLO

77-084A-05J VG1_J_MAG_4_9.60SEC
D-79996 C-27933 03/01/79 - 03/15/79 LABEL = V1JMMD

77-084A-05K VG1_J_MAG_4_1.92SEC
D-79997 C-27934 03/03/79 - 03/15/79 LABEL = V1JMHI

77-084A-05L	VG1_S_MAG_4_1.92SEC D-79998 C-27935 11/12/80 - 11/20/80 LABEL = V1SMHI
77-084A-05M	PDS VG1_S_MAG_4_9.60SEC D-79999 C-27936 11/12/80 - 11/20/80 LABEL = V1SMMD
77-084A-05N	VG1_S_MAG_4_48.0SEC D-80000 C-27937 11/12/80 - 11/20/80 LABEL = V1SMLO
77-084A-06G	VG1-S-PLS-5-ION-MOM-96.0 SEC
77-084A-06H	VG1-S-PLS-5-ION-FIT-96.0 SEC
77-084A-06I	VG1-S-PLS-5-ION-FBR-96.0 SEC
77-084A-06J	VG1-S-PLS-5-ELE-BR-96.0 SEC
77-084A-06K	VG1-S-PLS-5-ELE-PAR-96.0 SEC D-79991 C-28351 11/20/80 - 11/21/80 LABEL = V1SPLS
77-084A-06L	VG1_J_PLS_5_ION_MOM_96.0SEC
77-084A-06M	VG1_J_PLS/PRA_5_ELE_MOM_96.0SEC D-79992 C-27929 03/01/79 - 03/07/79 LABEL = V1JPLS
77-084A-07D	VG1_J_LECP_4_15MIN D-79969 C-27908 02/28/79 - 03/22/79 LABEL = V1JLHI
77-084A-07E	VG1_S_LECP_4_BR_15MIN D-79970 C-27909 11/11/80 - 11/16/80 LABEL = V1SLBR
77-084A-07F	VG1_S_LECP_4_15MIN D-79971 C-27910 11/11/80 - 11/16/80 LABEL = V1SLHI
77-084A-07G	VG1_J_LECP_4_BR_15MIN D-79972 C-27911 02/28/79 - 03/12/79 LABEL = V1JLBR
77-076A-00E	VG2-S-6-SPK-V1.0 D-79964 C-28036 07/19/81 - 10/21/81 LABEL = VGRSPK
77-076A-00G	VG2-J-6-SPK-V1.0 D-79964 C-28036 06/09/79 - 08/28/79 LABEL = VGRSPK
77-076A-00H	VG2-U-6-SPK-V1.0 D-79964 C-28036 11/05/85 - 02/25/86 LABEL = VGRSPK
77-076A-05J	VG2_J_MAG_4_1.92SEC D-79975 C-27914 07/05/79 - 07/25/79 LABEL = V2JMH1 D-79976 C-27915 07/25/79 - 08/12/79 LABEL = V2JMH2
77-076A-05K	VG2_J_MAG_4_9.60SEC D-79977 C-27916 07/05/79 - 08/12/79 LABEL = V2JMMD
77-076A-05L	VG2_J_MAG_4_48.0SEC D-79978 C-27917 07/05/79 - 08/12/79 LABEL = V2JMLO
77-076A-05M	VG2_S_POS_4_48.0SEC D-79979 C-27918 08/23/81 - 08/29/81 LABEL = V2SPOS
77-076A-05N	VG2_J_POS_4_48.0SEC D-79980 C-27919 07/03/79 - 08/03/79 LABEL = V2JPOS
77-076A-05O	PDS VG2_U_MAG_4_48.0SEC D-79981 C-27920 01/24/86 - 01/25/86 LABEL = V2UMLO

77-076A-05P	PDS VG2_U_MAG_4_9.60SEC D-79982 C-27921 01/24/86 - 01/26/86 LABEL = V2UMM3
77-076A-05Q	PDS VG2_U_MAG_4_1.92SEC D-79983 C-27922 01/24/86 - 01/26/86 LABEL = V2UMH3
77-076A-05R	PDS VG2_S_MAG_4_48.0SEC D-79984 C-27923 08/23/81 - 08/29/81 LABEL = V2SMLO
77-076A-05S	PDS VG2_S_MAG_4_9.60SEC D-79985 C-27924 08/23/81 - 08/29/81 LABEL = V2SMMD
77-076A-05T	PDS VG2_S_MAG_4_1.92SEC D-79986 C-27925 08/23/81 - 08/29/81 LABEL = V2SMHI
77-076A-05U	VG2_U_POS_4_48.0SEC D-79987 C-27926 01/21/86 - 01/30/86 LABEL = V2UPOS
77-076A-06G	VG2_U_PLS_5_ION_FIT_48SEC
77-076A-06H	VG2_U_PLS_5_ION_FBR_48SEC
77-076A-06I	VG2_U_PLS_5_ELE_PAR_48SEC
77-076A-06J	VG2_U_PLS_5_ELE_BR_48SEC D-79988 C-27927 01/24/86 - 01/26/86 LABEL = V2UPLS
77-076A-06K	VG2_J_PLS_5_ION_MOM_96.0SEC
77-076A-06L	VG2_J_PLS_5_ELE_MOM_96.0SEC D-79989 C-27928 07/04/79 - 07/13/79 LABEL = V2JPLS
77-076A-06M	VG2-S-PLS-5-ELE-BR-96.0 SEC
77-076A-06N	VG2-S-PLS-5-ION-MOM-96.0 SEC
77-076A-06O	VG2-S-PLS-5-ION-FIT-96.0 SEC
77-076A-06P	VG2-S-PLS-5-ELE-PAR-96.0 SEC
77-076A-06Q	VG2-S-PLS-5-ION-FBR-96.0 SEC D-79990 C-29102 08/19/81 - 08/26/81 LABEL= V2SPLS
77-076A-07D	VG2_S_LECP_4_BR_15MIN D-79965 C-27904 08/23/81 - 08/29/81 LABEL = V2SLBR
77-076A-07E	VG2_S_LECP_4_15MIN D-79966 C-27905 08/23/81 - 08/29/81 LABEL = V2SLHI
77-076A-07F	VG2_J_LECP_4_BR_15MIN D-79967 C-27906 07/02/79 - 07/23/79 LABEL = V2JLBR
77-076A-07G	VG2_J_LECP_4_15MIN D-79968 C-27907 07/03/79 - 08/03/79 LABEL = V2JLHI
77-076A-07H	VG2_U_LECP_4_15MIN D-79973 C-27912 01/24/86 - 01/28/86 LABEL = V2ULHI
77-076A-07I	VG2_U_LECP_4_BR_15MIN D-79974 C-27913 01/24/86 - 01/28/86 LABEL = V2ULBR

DSC #689 D-79964
C-28036
(on tape)
This is a sample of the documentation. Each tape has it's own files of documentation.

```
CCSD1Z000001000058483NJPL1V00PDS100058463 = SFDU_LABEL

OBJECT                          = VOLUME
 NAME                           = VGRSPK
 MEDIA_TYPE                     = TAPE
 TAPE_DENSITY                   = 1600
 TAPES                          = 1
 PROCESS_NAME                   = COPY
 FORMAT                         = ANSI
 HARDWARE_NAME                  = 'VAX 11/780'
 OPERATING_SYSTEM_NAME          = 'VMS 4.7'
 FILES                          = 6
 DATE_TIME                      = 1989-08-31
 DATA_SET_ID                    = {'VG1-S-6-SPK-V1.0',
                                   'VG1-J-6-SPK-V1.0',
                                   'VG2-J-6-SPK-V1.0',
                                   'VG2-S-6-SPK-V1.0',
                                   'VG2-U-6-SPK-V1.0'}
 NOTE                           = "This volume consists of this Volume
  Description Label and five actual datasets.

  The five datasets referenced by this volume label are the archival
  ephemeris and trajectory files for the Voyager 1 and Voyager 2
  flybys of Jupiter, Saturn, and Uranus.  The datasets are in the form
  of Navigation Ancillary Information Facility SPICE kernels; in
  particular, these five datasets are ASCII-format SPK files (SPK
  stands for 'S and P Kernels'). People intending to use these files
  must also order the NAIF Ephemeris System (NESYS) portion of the
  SPICELIB software 'toolkit' (if available separately at the time the
  order is placed), or, better yet, order the entire SPICELIB toolkit.
  All SPICELIB software is available as portable, ANSI standard
  Fortran 77 modules.

  NESYS includes the utility program named SEFU needed to convert any of
  these ASCII-format SPK files (e.g. VG1_JUP.ASP) back to binary format
  appropriate for the user's   host computer.  NESYS also contains the
  subroutines needed to read   binary SPK kernel files, complete with
  appropriate user documentation."

OBJECT                          = DIRECTORY
 NAME                           = ROOT
 NJPL1I00PDS100036920           = SFDU_LABEL

 OBJECT                          = FILE
  NAME                           = 'VOLDESC.SFD'
  RECORD_TYPE                    = STREAM
 END_OBJECT                      = FILE

 OBJECT                          = FILE
  NAME                           = 'VG1_JUP.ASP'
  RECORD_TYPE                    = VARIABLE_LENGTH
  RECORD_BYTES                   = 72
  FILE_RECORDS                   = 45775
  NOTE                           = "Voyager 1 Jupiter data file."

  OBJECT                          = CATALOG

  OBJECT                          = DATASET
   DATA_SET_ID                    = 'VG1-J-6-SPK-V1.0'
```

D-79964
Label = VGRSPK
77-076A-00E,G,H
77-084A-00E,F

```
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          2
          6
'VG1-J-6-SPK-V1.0                                                    '
1
'NATF SOURCE EPHEMERIS NATF/121.          '
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        599          5            4            2
        100
 -659880000.0000000        172800.0000000000        56.64233844587058
  21.61200008112719        26.91612654157903       -2.003979318256525
 -13.34509106394833       -3.509889980567577        14.16323500737161
  1.718290076749148       -5.356049735778631      -0.4288559022410570
 0.9013149823786943       6.132945402872419 3E-02   19.92751176464453
 -13.63633461764885        14.84512533732603        12.34316805849710
  2.791744887839400       -14.28529161232794       -2.540981331263159
  8.734809419995484       0.8622016321067029       -2.295520200735400
-0.1420607480761136       0.3315608181097599        10.26473818444791
 -6.234428157829704        7.185866849475969        5.824941125777561
  1.185440129634142       -6.859428628909443      -0.9831566452193881
  4.190946147207464       0.3221641420075557       -1.101151459577758
-5.270568311197652 8E-02  0.1590417565926217       -659534400.0000000
  172800.0000000000       -17.65082319945044       -149.9904647619071
 -4.476186019973235        20.67714191787789       -5.830861855621915
  13.05612759894002        2.148692211959308       -9.593864763980148
-0.5701943113278943        2.560982861015784       8.926194866358950 7E-02
-0.3708026660098457        94.10551010065511        11.80495723027129
 -58.80374953366208        4.742247964194631       -2.594426696080444
 -3.480220823694666        12.20716582263369        1.104599549299669
 -4.840273078745614      -0.2488493458323455       0.8193143370762484
 3.487296917078227 3E-02   44.30569219368864        3.579628331718292
 -27.98824749917484        2.613592860537977       -1.293952612659286
 -1.450996936858541        5.846995319352926       0.3675612851770314
 -2.315921838977716      -7.597744417505674 7E-02  0.3919539002106840
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 -79.33428934626648        127.4692953695536        41.57839525764591
 -26.49108991566329       0.2172817519843301        3.277475177927476
 -12.99130193074966      -0.4656757831287262        5.347388366578562
 7.820680107208511 9E-02 -0.9104981807823508      -1.024469153679564 1E-02
 -53.98566824620486       -78.07567125013318        59.75052674760792
  17.64786072178629       -8.530385302974649        10.35594848628504
  1.158316075532109       -8.542030336531844      -0.2069595163898868
  2.313891768402817
        100
 2.942258819800506 9E-02 -0.3358955393267643       -26.69827893363062
 -35.44431157947518        28.92621854158828        8.141704567009584
 -4.031478149230885        4.963695690781928       0.3329328704293249
 -4.076752504494529      -9.389932057982850 6E-03   1.103998649976015
-1.152947698496649 5E-03 -0.1602545387840733       -658843200.0000000
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  3.112126867440110       -7.123926784557971       0.2042475055226127
 -11.08018865599127       0.4491799804543915        9.376317730488695
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  4.807907265341837      -7.992284354986274 9E-02 -0.8211090310392956
 1.175844967817137 5E-02  -19.27170543531085        1.346492286378465
 -3.329726578357621       6.986487118797201 5E-02  0.5854171891695522
-0.2713834746734113       -5.469750197801888       0.2881760567785944
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2.287544857713125	-8.079526845685834 5E-02	-0.3906923184731982
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0.2924492696832132	0.9047198518831246	-4.158069099827904E-02
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-25.70887273500033	-6.856170486793302	-9.517895147002632
1.820993701512961	8.448019524429744	-0.5359907813153735
-2.300345911099478	8.669678209127720 1E-02	0.3341985519882810
1.192754270672543	55.52133410627954	18.71549961419708
-12.46043777278681	-3.282817659674405	-4.485513022786450
1.086788024917159	4.006627861160525	-0.3442881017478818
-1.091493420754578	5.641093455617725 4E-02	0.1585860323435713
-658152000.0000000	172800.0000000000	-46.48782045767155
-129.0101213893644	29.95804153101349	20.40442088727378
5.000661444491369	12.18887042694623	-3.247872052112057
-9.408310867625777		
100		
1.020228128063511	2.527451275438675	-0.1656202864466886
-0.3663590400678010	91.06803102940192	-79.67459113604821
-51.28510723939785	1.094046092458848	-1.466546983607609
4.115661985555479	11.85999020902407	-1.703712356019009
-4.777888548700274	0.4102151946192766	0.8107875621794091
-5.825932775919254 4E-02	42.61287057292288	-39.44610628148157
-23.91161439750138	0.7253419130562245	-0.6627055847808683
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-2.260558664813278	0.2376701259563589	0.3836750290802610
-3.387187231903992 0E-02	-657806400.0000000	172800.0000000000
-58.79798840638819	28.92872184087381	-31.06056726737039
5.140268167101323	12.26644524506859	-5.466382446799019
-13.73685243248396	2.571544725714605	5.249740268914877
-0.6441560714356578	-0.8849901182244000	9.222147412265729 2E-02
-20.64629159894399	20.64961848178749	3.567267045578398
-12.12235283275 96	5.592162551487636	13.64251141875074
-3.588240795670248	-8.562118307254056	1.207482860408050
2.259686991897946	-0.1990427923275549	-0.3266349630807405
-10.67826005689948	10.12841766563826	1.362046904869513
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-1.936663411492566	-4.039878276798557	0.6628217388674608
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9.368569307806646	-1.697635752206589	-2.453280856128821
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-83.95761545111846	14.80000928281953	13.94550062502321
10.16682428253574	-4.727184407377277	-12.43976188233074
2.710947882254331	4.676380938444422	-0.7131011359871713
-0.7856695357084821	0.1030550502338635	-41.86721475286764
-38.60864943469301	7.510953752882400	6.554136409477338
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13.22107119087019	-3.492689637529669	-5.029965275487099
0.9651906332860420	0.8461216038519151	-0.1405514391428859

B14

D-79980

D-79980 VG2_J_PDS_4_48_USEC.DAT

425952000.000	106.496	6.367	228.611
425952048.000	106.489	6.367	229.094
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425952144.000	106.477	6.367	230.060
425952192.000	106.470	6.367	230.543
425952240.000	106.464	6.367	231.026
425952288.000	106.458	6.367	231.509
425952336.000	106.452	6.367	231.992
425952384.000	106.445	6.367	232.474
426802672.000	286.047	5.292	252.096
426802720.000	286.053	5.292	252.579
426802768.000	286.059	5.292	253.063
426802816.000	286.064	5.292	253.547
426802864.000	286.070	5.292	254.030
426802912.000	286.076	5.292	254.514
426802960.000	286.081	5.292	254.997
426803008.000	286.087	5.292	255.481
426803056.000	286.092	5.292	255.964