#761

PIONEER 10 & 11

72-012A-12C 73-019A-12D

6-HR INTERPLANETARY DATA-SFD

PIONEER 10

6-HOUR INTERPLANETARY DATA-SFDU

72-012A-12C

THIS DATA SET CONSISTS OF ONE MAGNETIC TAPE. THE TAPE IS 9-TRACK, 6250 BPI WRITTEN IN ASCII, AND CREATED ON THE VAX COMPUTER. THE DATA WAS DOWNLOADED AND COPIED TO TAPE FROM THE ANON_DIR:[COHO.P10CRT]. A COPY OF THE TAPE FORMAT,VOLDESC AND A DIRECTORY LIST HAS BEEN INCLUDED IN THE CATALOG. THE D AND C NUMBER ALONG WITH THE TIME SPAN IN LISTED BELOW.

D#	C#	LABEL	FILES	TIMESPAN
D-100519	C-029885	P10CRT	49	03/03/72-12/31/94

CCSD3FF0000500000001CCSD3CS00004MRK**001
ADIDNAME=NSSD0117;
CCSD$$MARKERMRK**001CCSD3KS00002MRK**001

SUBM_NAME: Dr. Nand Lal
SUBM_ADDR: Goddard Space Flight Center
Code 664
Greenbelt, MD 20771

Electronic mail: nand@voycrs.gsfc.nasa.gov
LHEAVX::LAL
SUBM_DATE: 1991-03-15
TITLE: Format for Pioneer-10 CRT Cruise Data Archive Data Set
DESCR: Format description of the Pioneer-10 Cosmic Ray Telescope cruise phase energetic particle data measurements archive data set, March 1972 through 1990.
REL_DATE: 1991-03-15

CCSD$$MARKERMRK**002CCSD3DF0000200000001

FILE_CLASS_NAME:Format for Pioneer-10 CRT Cruise Data Archive Data Set
FILE_TYPE_NAME: CRT_AVG_FILE
RECORD_TYPE_NAME: CRT_AVG_REC
RECORD_STRUCTURE: Fixed length, no control fields.
RECORD_LENGTH: 1024 ASCII characters
RECORD_FIELD_MNEMONICS: TIME,
PROTONFLUX1,
PROTONFLUX2,
PROTONFLUX3,
HELIUMFLUX1,
HELIUMFLUX2,
HELIUMFLUX3,
HELIUMFLUX4,
ELECTRONFLUX,
R1,
R2A,
R2B,
R3A,
R9A,
R9B,
R9C,
R9D,
R10A,
R10B,
R10C,
R10D,
R10E,
R10F,
R10G,
R10H,
R11A,
R11B,
R12A,
R12B,
R15A,
R15B,
R15C,
R15D,
R16A,

CCSD3ZF0000100000001CCSD3VS00002MRK**001

/* SFDU files: VOLDESC_V02.SFD - updated 3/1/96 by J. F. Cooper, HSTX/SSDOO */

VOL_IDENT: USA_NASA_NSSD_P10L_0001

VOL_CREATION_DATE: 1991-03-15

MEDIUM_DESCRIPTION: 1/2 inch, 9-track, 6250 bpi magnetic tapes

TECHNICAL_CONTACT: Dr. Nand Lal
Goddard Space Flight Center
Code 664
Greenbelt, MD 20771

Electronic Mail: LHEAVX::LAL
Electronic Mail: Bitnet, nand@voycrs.gsfc.nasa.gov
Telephone: 301-286-5668

PREV_VOLS: None

CCSD$$MARKERMRK**001CCSD3SS00002MRK**002

DATA_SET_NAME: PIONEER-10 CRT DATA ARCHIVE

DATA_SOURCE: Pioneer-10 Cosmic Ray Telescope

SCIENTIFIC_CONTACT: Dr. Frank McDonald
Institute for Physical Science and Technology
University of Maryland
College Park, MD 20742

Electronic Mail: fm27@umail.umd.edu
Telephone: 301-405-4861

SPACECRAFT_CHARACTERISTICS: Pioneer-10 was launched on March 3, 1972 and encountered Jupiter on December 4, 1973. After passing Jupiter the spacecraft trajectory is taking it toward the tail of the sun's heliosphere. At the end of 1990 it was about 51 AU from the sun, in the ecliptic plane at about +3 degrees celestial latitude, and 73 degrees (measured eastward from the vernal equinox) celestial longitude. The spacecraft is instrumented with a full suite of magnetic field, plasma and energetic particle and cosmic ray sensors. The spacecraft is spin-stabilized about the axis of the large disk antenna, which is usually kept pointed in the direction of the earth.

INVESTIGATION_OBJECTIVES: This instrument is designed to exploit to the fullest practical degree the proposed trajectories of Pioneer F and G. The significance of these measurements will be greatly enhanced by concur-rent measurements with similar particle telescopes on satellites such as IMP or similar series in near-earth orbits. The principle scientific objectives of this experiment are:

1.) To measure the flow patterns of energetic solar and galactic particles separately in the inter-planetary field. To interpret this measurement, simultaneous determination of the energy spectrum, radial gradient, angular distribution, and streaming parameters is required for each nuclear species and over as wide an energy range as is practicable.

Directory ANON_DIR:[COHO.P10CRT]

CRT_P10_72A.DAT;1	936	1-JUN-1992	00:00:00.00
CRT_P10_72B.DAT;1	1472	4-JUN-1992	00:00:00.00
CRT_P10_73A.DAT;1	1448	4-JUN-1992	00:00:00.00
CRT_P10_73B.DAT;1	1312	4-JUN-1992	00:00:00.00
CRT_P10_74A.DAT;1	1448	4-JUN-1992	00:00:00.00
CRT_P10_74B.DAT;1	1472	4-JUN-1992	00:00:00.00
CRT_P10_75A.DAT;1	1448	4-JUN-1992	00:00:00.00
CRT_P10_75B.DAT;1	1472	4-JUN-1992	00:00:00.00
CRT_P10_76A.DAT;1	1456	4-JUN-1992	00:00:00.00
CRT_P10_76B.DAT;1	1472	4-JUN-1992	00:00:00.00
CRT_P10_77A.DAT;1	1448	4-JUN-1992	00:00:00.00
CRT_P10_77B.DAT;1	1472	4-JUN-1992	00:00:00.00
CRT_P10_78A.DAT;1	1448	4-JUN-1992	00:00:00.00
CRT_P10_78B.DAT;1	1472	4-JUN-1992	00:00:00.00
CRT_P10_79A.DAT;1	1448	4-JUN-1992	00:00:00.00
CRT_P10_79B.DAT;1	1472	4-JUN-1992	00:00:00.00
CRT_P10_80A.DAT;1	1456	4-JUN-1992	00:00:00.00
CRT_P10_80B.DAT;1	1472	4-JUN-1992	00:00:00.00
CRT_P10_81A.DAT;1	1448	4-JUN-1992	00:00:00.00
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CRT_P10_82A.DAT;1	1448	4-JUN-1992	00:00:00.00
CRT_P10_82B.DAT;1	1472	4-JUN-1992	00:00:00.00
CRT_P10_83A.DAT;1	1448	4-JUN-1992	00:00:00.00
CRT_P10_83B.DAT;1	1472	4-JUN-1992	00:00:00.00
CRT_P10_84A.DAT;1	1456	4-JUN-1992	00:00:00.00
CRT_P10_84B.DAT;1	1472	4-JUN-1992	00:00:00.00
CRT_P10_85A.DAT;1	1448	4-JUN-1992	00:00:00.00
CRT_P10_85B.DAT;1	1472	4-JUN-1992	00:00:00.00
CRT_P10_86A.DAT;1	1448	4-JUN-1992	00:00:00.00
CRT_P10_86B.DAT;1	1472	4-JUN-1992	00:00:00.00
CRT_P10_87A.DAT;1	1448	4-JUN-1992	00:00:00.00
CRT_P10_87B.DAT;1	1472	4-JUN-1992	00:00:00.00
CRT_P10_88A.DAT;1	1456	4-JUN-1992	00:00:00.00
CRT_P10_88B.DAT;1	1472	4-JUN-1992	00:00:00.00
CRT_P10_89A.DAT;1	1448	4-JUN-1992	00:00:00.00
CRT_P10_89B.DAT;1	1472	4-JUN-1992	00:00:00.00
CRT_P10_90A.DAT;1	1448	4-JUN-1992	00:00:00.00
CRT_P10_90B.DAT;1	1472	4-JUN-1992	00:00:00.00
CRT_P10_91A.DAT;1	1448	4-JUN-1992	00:00:00.00
CRT_P10_91B.DAT;1	1472	4-JUN-1992	00:00:00.00
FORMAT.SFD;1	31	29-MAY-1992	00:00:00.00
TEMP.LIS;1	0	5-MAY-1995	16:14:50.06
VOLDESC.SFD;2	49	4-JUN-1992	00:00:00.00

Total of 43 files, 57840 blocks.

Pioneer 11 - 6 HR

PIONEER 11

6-HOUR INTERPLANETARY DATA-SFDU

73-019A-12D

THIS DATA SET CONSISTS OF ONE MAGNETIC TAPE. THE TAPE IS 9-TRACK, 6250 BPI WRITTEN IN ASCII, AND CREATED ON THE VAX COMPUTER. THE DATA WAS DOWNLOADED AND COPIED TO TAPE FOR THE ANON_DIR:[COHO.P11CRT]. A COPY OF THE TAPE FORMAT, VOLDESC AND A DIRECTORY LIST HAS BEEN INCLUDED IN THE CATALOG. THE D AND C NUMBER ALONG WITH THE TIME SPAN IS LISTED BELOW.

D#	C#	LABEL	FILES	TIMESPAN
D-100520	C-029886	P11CRT	47	04/06/73-12/31/94

```
CCSD3FF0000500000001CCSD3CS00004MRK**001
ADIDNAME=NSSD0118;
CCSD$$MARKERMRK**001CCSD3KS00002MRK**001

SUBM_NAME:     Dr. Nand Lal
SUBM_ADDR:     Goddard Space Flight Center
               Code 664
               Greenbelt, MD 20771

               Electronic mail:  nand@voycrs.gsfc.nasa.gov
                                 LHEAVX::LAL
SUBM_DATE:     1992-12-09
TITLE:         Format for Pioneer-11 CRT Cruise Data Archive Data Set
DESCR:         Format description of the Pioneer-11 Cosmic Ray Telescope
               cruise phase energetic particle data measurements
               archive data set, April 1973 through 1991.
REL_DATE:      1991-03-15

CCSD$$MARKERMRK**002CCSD3DF0000200000001

FILE_CLASS_NAME:Format for Pioneer-11 CRT Cruise Data Archive Data Set
FILE_TYPE_NAME:          CRT_AVG_FILE
RECORD_TYPE_NAME:        CRT_AVG_REC
RECORD_STRUCTURE:        Fixed length, no control fields.
RECORD_LENGTH:           1024 ASCII characters
RECORD_FIELD_MNEMONICS: TIME,
                         PROTONFLUX1,
                         PROTONFLUX2,
                         PROTONFLUX3,
                         HELIUMFLUX1,
                         HELIUMFLUX2,
                         HELIUMFLUX3,
                         HELIUMFLUX4,
                         ELECTRONFLUX,
                         R1,
                         R2A,
                         R2B,
                         R3A,
                         R9A,
                         R9B,
                         R9C,
                         R9D,
                         R10A,
                         R10B,
                         R10C,
                         R10D,
                         R10E,
                         R10F,
                         R10G,
                         R10H,
                         R11A,
                         R11B,
                         R12A,
                         R12B,
                         R15A,
                         R15B,
                         R15C,
                         R15D,
                         R16A,
```

CCSD3ZF0000100000001CCSD3VS00002MRK**001

/* SFDU file: VOLDESC_V02.SFD - updated 3/1/96 by J. F. Cooper, HSTX/SSDOO */

VOL_IDENT: USA_NASA_NSSD_P11L_0001

VOL_CREATION_DATE: 1992-12-09

MEDIUM_DESCRIPTION: 1/2 inch, 9-track, 6250 bpi magnetic tapes

TECHNICAL_CONTACT:
Dr. Nand Lal
Goddard Space Flight Center
Code 664
Greenbelt, MD 20771

Electronic Mail: LHEAVX::LAL
Electronic Mail: nand@voycrs.gsfc.nasa.gov
Telephone: 301-286-5668

PREV_VOLS: None

CCSD$$MARKERMRK**001CCSD3SS00002MRK**002

DATA_SET_NAME: PIONEER-11 CRT DATA ARCHIVE

DATA_SOURCE: Pioneer-11 Cosmic Ray Telescope

SCIENTIFIC_CONTACT:
Dr. Frank McDonald
Institute for Physical Science and Technology
University of Maryland
College Park, MD 20742

Electronic Mail: fm27@umail.umd.edu
Telephone: 301-405-4861

SPACECRAFT_CHARACTERISTICS: Pioneer-11 was launched on April 6, 1973, encountered Jupiter on December 4, 1974, used Jupiter's gravitational field to alter its trajectory radically, and encountered Saturn on September 1, 1979. It is currently (1990) near 30 AU and +16 deg celestial latitude, following an escape trajectory from the solar system toward the nose of the heliosphere. The spacecraft is instrumented with a full suite of magnetic field, plasma and energetic particle and cosmic ray sensors. Telemetry coverage was 40 - 60 % from 1976 through 1989, and about 30% in 1990. The spacecraft is spin-stabilized about the axis of the large disk antenna, which is usually kept pointed in the direction of the earth.

INVESTIGATION_OBJECTIVES: This instrument is designed to exploit to the fullest practical degree the proposed trajectories of Pioneer F and G. The significance of these measurements will be greatly enhanced by concur-rent measurements with similar particle telescopes on satellites such as IMP or similar series in near-earth orbits. The principle scientific objectives of this experiment are:

1.) To measure the flow patterns of energetic solar and galactic particles separately in the inter-planetary field. To interpret this measurement, simultaneous determination of the energy spectrum, radial gradient, angular distribution, and streaming parameters is required for each nuclear species and over as wide an energy range as is practicable.

Directory ANON_DIR:[COHO.P11CRT]

CRT_P11_73A.DAT;1	720	15-JUN-1993	00:00:00.00
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CRT_P11_74B.DAT;1	1472	16-JUN-1993	00:00:00.00
CRT_P11_75A.DAT;1	1448	16-JUN-1993	00:00:00.00
CRT_P11_75B.DAT;1	1472	16-JUN-1993	00:00:00.00
CRT_P11_76A.DAT;1	1456	16-JUN-1993	00:00:00.00
CRT_P11_76B.DAT;1	1472	16-JUN-1993	00:00:00.00
CRT_P11_77A.DAT;1	1448	16-JUN-1993	00:00:00.00
CRT_P11_77B.DAT;1	1472	16-JUN-1993	00:00:00.00
CRT_P11_78A.DAT;1	1448	16-JUN-1993	00:00:00.00
CRT_P11_78B.DAT;1	1472	16-JUN-1993	00:00:00.00
CRT_P11_79A.DAT;1	1448	16-JUN-1993	00:00:00.00
CRT_P11_79B.DAT;1	1472	16-JUN-1993	00:00:00.00
CRT_P11_80A.DAT;1	1456	16-JUN-1993	00:00:00.00
CRT_P11_80B.DAT;1	1472	16-JUN-1993	00:00:00.00
CRT_P11_81A.DAT;1	1448	16-JUN-1993	00:00:00.00
CRT_P11_81B.DAT;1	1472	16-JUN-1993	00:00:00.00
CRT_P11_82A.DAT;1	1448	16-JUN-1993	00:00:00.00
CRT_P11_82B.DAT;1	1472	16-JUN-1993	00:00:00.00
CRT_P11_83A.DAT;1	1448	16-JUN-1993	00:00:00.00
CRT_P11_83B.DAT;1	1472	16-JUN-1993	00:00:00.00
CRT_P11_84A.DAT;1	1456	16-JUN-1993	00:00:00.00
CRT_P11_84B.DAT;1	32	16-JUN-1993	00:00:00.00
CRT_P11_85A.DAT;1	504	16-JUN-1993	00:00:00.00
CRT_P11_85B.DAT;1	1472	16-JUN-1993	00:00:00.00
CRT_P11_86A.DAT;1	1448	16-JUN-1993	00:00:00.00
CRT_P11_86B.DAT;1	1472	16-JUN-1993	00:00:00.00
CRT_P11_87A.DAT;1	1448	16-JUN-1993	00:00:00.00
CRT_P11_87B.DAT;1	1472	16-JUN-1993	00:00:00.00
CRT_P11_88A.DAT;1	1456	16-JUN-1993	00:00:00.00
CRT_P11_88B.DAT;1	1472	16-JUN-1993	00:00:00.00
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CRT_P11_89B.DAT;1	1472	16-JUN-1993	00:00:00.00
CRT_P11_90A.DAT;1	1448	16-JUN-1993	00:00:00.00
CRT_P11_90B.DAT;1	1472	16-JUN-1993	00:00:00.00
CRT_P11_91A.DAT;1	1448	16-JUN-1993	00:00:00.00
CRT_P11_91B.DAT;1	1472	16-JUN-1993	00:00:00.00
CRT_P11_92A.DAT;1	1459	1-MAR-1996	10:44:59.51
CRT_P11_92B.DAT;1	1475	1-MAR-1996	10:45:02.04
CRT_P11_93A.DAT;1	1451	1-MAR-1996	10:45:12.34
CRT_P11_93B.DAT;1	1475	1-MAR-1996	10:45:15.39
CRT_P11_94A.DAT;1	1451	1-MAR-1996	10:45:22.90
CRT_P11_94B.DAT;1	1475	1-MAR-1996	10:45:25.44
FORMAT_V01.SFD;1	32	15-JUN-1993	00:00:00.00
TEMP.LIS;2	0	1-MAR-1996	11:25:18.34
TEMP.LIS;1	5	5-MAY-1995	16:14:41.80
VOLDESC_V02.SFD;2	47	1-MAR-1996	11:24:50.73

Total of 48 files, 61270 blocks.