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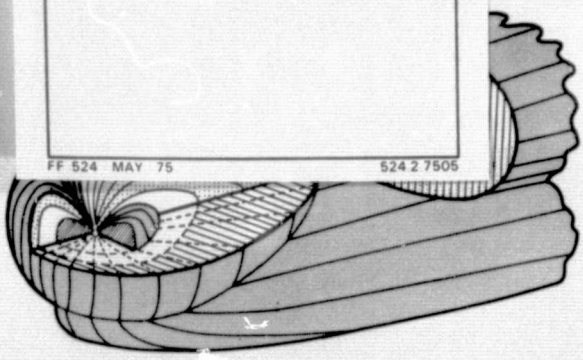
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IMS/Satellite Situation Center Report

Predicted Orbit Plots for IMP-J - 1976



REPORT NO. 4

DECEMBER 1975

WDC-A/NSSDC

IMS/Satellite Situation Center Report

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National Space Science Data Center/
World Data Center A for Rockets and Satellites
National Aeronautics and Space Administration
Goddard Space Flight Center
Greenbelt, Maryland 20771

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I. INTRODUCTION

This report contains predicted orbit plots for the IMP-J satellite for the time period January-December 1976. This satellite has been identified as an important possible contributor to the International Magnetospheric Study (IMS) project. The predicted orbit plots are shown in three projections. The time period covered by each set of projections is 12 days 6 hours, corresponding approximately to the period of IMP-J. The three coordinate systems used are the Geocentric Solar Ecliptic system (GSE), the Geocentric Solar Magnetospheric system (GSM), and the Solar Magnetic system (SM).

For the GSE system, the X-axis is along the Earth-Sun line toward the Sun, and the Z-axis is perpendicular to the ecliptic plane such that the Y-axis is toward dusk. The GSE projection at the top left of the set of three plots shows the satellite trajectory rotated into the X-Y plane in order to illustrate the relative positions of the satellite and the bow shock and magnetopause boundaries. Fairfield's model (1971) for the average position of these boundaries has been used. This model corresponds to a solar wind velocity of 420 km/sec. For positive X values, a spherical rotation of the satellite radius vector has been performed at constant ecliptic longitude. For negative X values, a cylindrical rotation of the Y and Z components of the radius vector has been performed at constant X.

For the GSM system, the X-axis is along the Earth-Sun line toward the Sun, and the X-Z plane contains the geomagnetic dipole such that the Z-axis is positive northward and the Y-axis is toward dusk. The GSM projection at the top right of the set of three plots shows the satellite trajectory projected onto the Y-Z plane in order to show the relative position of the satellite and the neutral sheet. A simple model for the neutral sheet is assumed: the sheet is hinged onto the geomagnetic equator at 10 Earth radii in the antisolar direction and lies in the GSM X-Y plane. The neutral sheet positions are shown as horizontal lines corresponding to six equally spaced times of the first day covered by the plot. The extent of the horizontal lines in Y has no significance. The projected trajectories are shown as solid lines for $X < -10$ Earth radii and as dashed lines for $X > -10$ Earth radii. The dashed lines indicate that the satellite is not in the region of the neutral sheet regardless of Z values.

For the SM system, the Z-axis contains the north magnetic pole, and the Y-axis is perpendicular to the Earth-Sun line toward dusk. The satellite trajectory is shown at the bottom of the set of three plots as magnetic latitude and magnetic local time. These values of magnetic latitude and magnetic local time use SM latitude and longitude as a basis.

For each of the three projections, time ticks and codes are given on the satellite trajectories. The codes are interpreted in the table at the base of each plot. Time is given in the table as year/day/decimal

hour. The total time covered by each plot is shown at the bottom of each table. An additional variable is given in the table for each time tick. For the GSM and SM projections this variable is geocentric distance to the satellite in Earth radii, and for the GSE projection the variable is satellite ecliptic latitude in degrees.

For the orbit predictions shown in this report actual spacecraft elements for epoch April 1975 were used. The predicted elements for January 1, 1976, are shown in Table 1.

II. IMP-J ORBIT CHARACTERISTICS FOR 1976

The low inclination of the IMP-J satellite precludes encounters with the direct access (cusp) region, and thus the magnetic latitude/magnetic local time projections shown in this report are of limited value. However, IMP-J provides a number of useful bow shock, magnetopause, and neutral sheet encounters throughout 1976. In addition, IMP-J provides a valuable monitor of the interplanetary medium.

The characteristics of the bow shock and magnetopause encounters do not vary throughout the year. Twice per revolution the satellite encounters these boundaries at negative X_{GSE} . One encounter for boundary occurs in the midnight/dusk quadrant and one in the midnight/dawn quadrant. On the average, the satellite spends approximately 20 percent of each revolution in the nightside magnetosheath. However, there are three revolutions during the time period Days 111-151 for which IMP-J does not enter the magnetotail and spends approximately 45 percent of the orbit period in the magnetosheath.

Since IMP-J is well suited for monitoring the interplanetary medium, the times for which the satellite is in the medium are summarized in Table 2. The entry time corresponds to an outbound encounter with the bow shock in the midnight/dawn quadrant, and the exit time corresponds to an inbound encounter in the midnight/dusk quadrant. IMP-J spends approximately 61 percent of each revolution in the interplanetary medium.

A useful characteristic of the IMP-J orbit in 1976 is the neutral sheet encounters. There are 13 encounters grouped into three periods. These are summarized in Table 3. During each period the encounters occur on consecutive revolutions and progress from the dawn to the dusk magnetotail. Note that the encounters for the second period occur at a lower altitude than those in the other periods.

III. SPACECRAFT AND EXPERIMENT STATUS

Brief descriptions of the 12 IMP-J experiments are given in pages 5-13. All 12 experiments are presently operational. A summary

is shown in Table 4. Three of the IMP-J experimenters appear in the IMS Directory No. 2. However, only two, D. A. Gurnett and D. J. Williams, have identified the IMP-J experiments under their IMS Program Summary numbers.

IV. FUTURE OPERATIONS

The Satellite Situation Center (SSC) maintains orbit prediction plots on 16-mm microfilm for IMP-J of the type shown in this document for the time period January 1977 through December 1979. These plots may be obtained upon request.

V. SPACECRAFT/EXPERIMENT CHARACTERISTICS

***** IMP-J *****

SPACECRAFT COMMON NAME- IMP-J
ALTERNATE NAMES- PL-723A, IMP 8
EXPLORER 50, 6893
NSSDC ID- 73-078A

LAST REPORTED STATE- LAUNCHED AND OPERATING NORMALLY
AT THE STANDARD DATA ACQUISITION RATE SINCE 10/26/73.

LAUNCH DATE- 10/26/73 SPACECRAFT WEIGHT- 371. KG
LAUNCH SITE- CAPE CANAVERAL, UNITED STATES
LAUNCH VEHICLE- DELTA

SPONSORING COUNTRY/AGENCY
UNITED STATES NASA-OSS

INITIAL ORBIT PARAMETERS
ORBIT TYPE- GEOCENTRIC EPOCH DATE- 10/29/73
ORBIT PERIOD- 17279. MIN INCLINATION- 28.674 DEG
PERIAPSIS- 141185. KM ALT APOAPSIS- 288857. KM ALT

RECENT ORBIT PARAMETERS
ORBIT TYPE- GEOCENTRIC EPOCH DATE- 06/16/75
ORBIT PERIOD- 17208. MIN INCLINATION- 19.07 DEG
PERIAPSIS- 193683. KM ALT APOAPSIS- 247915. KM ALT

SPACECRAFT PERSONNEL (PM=PROJECT MANAGER, PS=PROJECT SCIENTIST)
PM - M. DAVISNASA-GSFC
GREENBELT, MD
PS - J.H. KINGNASA-GSFC
GREENBELT, MD

SPACECRAFT BRIEF DESCRIPTION
IMP 8 (EXPLORER 50), THE LAST SATELLITE OF THE IMP SERIES, WAS A DRUM-SHAPED SPACECRAFT, 135.6 CM ACROSS AND 157.4 CM HIGH, INSTRUMENTED FOR INTERPLANETARY AND MAGNETOTAIL STUDIES OF COSMIC RAYS, ENERGETIC SOLAR PARTICLES, PLASMA, AND ELECTRIC AND MAGNETIC FIELDS. IMP 8 WAS 180 DEG OUT OF PHASE WITH IMP 7 (WITH WHOSE DATA MUCH CORRELATION IS INTENDED) AND WAS EXPECTED TO REMAIN APPROXIMATELY SO FOR ITS FIRST 500 DAYS IN ORBIT. ITS INITIAL ORBIT WAS MORE ELLIPTICAL THAN INTENDED, WITH APOGEE AND PERIGEE DISTANCES OF ABOUT 45 AND 25 EARTH RADII. IT IS EXPECTED TO HAVE A NEAR-CIRCULAR ORBIT AFTER ABOUT TWO YEARS. THE SPACECRAFT SPIN AXIS WAS NORMAL TO THE ECLIPTIC PLANE, AND THE SPIN RATE WAS 23 RPM. AFTER SOME EARLY SPACECRAFT PROBLEMS, WHICH WERE OVERCOME WITHIN A FEW WEEKS AFTER LAUNCH, THE SPACECRAFT PERFORMED NORMALLY.

----- IMP-J, AGGSON -----

EXPERIMENT NAME- ELECTROSTATIC FIELDS

NSSDC ID- 73-078A-11

LAST REPORTED STATE- LAUNCHED AND OPERATING NORMALLY
AT THE STANDARD DATA ACQUISITION RATE SINCE 10/26/73.
EXPERIMENT PERSONNEL (PI=PRINCIPAL INVESTIGATOR, TL=TEAM LEADER
OI=OTHER INVESTIGATOR, TM=TEAM MEMBER)

PI - T.L. AGGSONNASA-GSFC
GREENBELT, MD
OI - J.P. HEPPNERNASA-GSFC
GREENBELT, MD

EXPERIMENT BRIEF DESCRIPTION

A BIAxIAL ANTENNA SYSTEM WITH ELECTROMETERS TO MEASURE THE POTENTIAL DIFFERENCE BETWEEN THE TWO HALVES OF EACH ANTENNA DETERMINED THE VECTOR ELECTROSTATIC FIELD WITH A SENSITIVITY OF 0.1 MV PER METER. ONE ANTENNA LAID ALONG THE SPACECRAFT SPIN AXIS AND THE OTHER WAS NORMAL TO THIS AXIS. MEASUREMENTS WERE MADE IN THE SOLAR WIND, IN THE TRANSITION REGION, AND IN THE GEOMAGNETIC TAIL.

----- IMP-J, BAME -----

EXPERIMENT NAME- MEASUREMENT OF SOLAR PLASMA

NSSDC ID- 73-078A-10

LAST REPORTED STATE- LAUNCHED AND OPERATING NORMALLY
AT THE STANDARD DATA ACQUISITION RATE SINCE 10/26/73.
EXPERIMENT PERSONNEL (PI=PRINCIPAL INVESTIGATOR, TL=TEAM LEADER
OI=OTHER INVESTIGATOR, TM=TEAM MEMBER)

PI - S.J. BAMELOS ALAMOS SCI LAB
LOS ALAMOS, NM
OI - J.R. ASBRIDGELOS ALAMOS SCI LAB
LOS ALAMOS, NM

EXPERIMENT BRIEF DESCRIPTION

A HEMISPHERICAL ELECTROSTATIC ANALYZER MEASURED THE DIRECTIONAL INTENSITY OF POSITIVE IONS AND ELECTRONS IN THE SOLAR WIND, MAGNETOSHEATH, AND MAGNETOTAIL. IONS AS HEAVY AS OXYGEN WERE RESOLVED WHEN THE SOLAR WIND TEMPERATURE IS LOW. ENERGY ANALYSIS WAS ACCOMPLISHED BY CHARGING THE PLATES TO KNOWN VOLTAGE LEVELS AND ALLOWING THEM TO DISCHARGE WITH KNOWN RC TIME CONSTANTS. IN THE SOLAR WIND, POSITIVE IONS FROM 200 EV TO 5 KEV (15 PERCENT SPACING, 3 PERCENT RESOLUTION) AND ELECTRONS FROM 5 EV TO 1 KEV (30 PERCENT SPACING, 15 PERCENT RESOLUTION) WERE STUDIED. IN THE MAGNETOSHEATH, POSITIVE IONS FROM 200 EV TO 5 KEV (15 PERCENT SPACING, 3 PERCENT RESOLUTION) AND FROM 200 EV TO 20 KEV (30 PERCENT SPACING, 15 PERCENT RESOLUTION) AND ELECTRONS FROM 5 EV TO 1 KEV (30

PERCENT SPACING, 15 PERCENT RESOLUTION) WERE STUDIED. IN THE MAGNETOTAIL, POSITIVE IONS FROM 200 EV TO 20 KEV (30 PERCENT SPACING, 15 PERCENT RESOLUTION) AND ELECTRONS FROM 5 EV TO 1 KEV (30 PERCENT SPACING, 15 PERCENT RESOLUTION) AND FROM 100 EV TO 20 KEV (15 PERCENT RESOLUTION) WERE STUDIED.

----- IMP-J, BRIDGE -----

EXPERIMENT NAME- MEASUREMENT OF SOLAR PLASMA

NSSDC ID- 73-078A-02

LAST REPORTED STATE- LAUNCHED AND OPERATING NORMALLY
AT THE STANDARD DATA ACQUISITION RATE SINCE 10/26/73.
EXPERIMENT PERSONNEL (PI=PRINCIPAL INVESTIGATOR, TL=TEAM LEADER
OI=OTHER INVESTIGATOR, TM=TEAM MEMBER)

PI - H.S. BRIDGEMASS INST OF TECH
CAMBRIDGE, MA
OI - A.J. LAZARUSMASS INST OF TECH
CAMBRIDGE, MA
OI - J.H. BINSACKMASS INST OF TECH
CAMBRIDGE, MA
OI - E.F. LYONMASS INST OF TECH
CAMBRIDGE, MA

EXPERIMENT BRIEF DESCRIPTION

A MODULATED SPLIT-COLLECTOR FARADAY CUP, PERPENDICULAR TO THE SPACECRAFT SPIN AXIS, WAS USED TO STUDY THE DIRECTIONAL INTENSITY OF POSITIVE IONS AND ELECTRONS IN THE SOLAR WIND, TRANSITION REGION, AND MAGNETOTAIL. ELECTRONS WERE STUDIED IN EIGHT LOGARITHMICALLY EQUISPACED ENERGY CHANNELS BETWEEN 17 EV AND 7 KEV. POSITIVE IONS WERE STUDIED IN EIGHT CHANNELS BETWEEN 50 EV AND 7 KEV. A SPECTRUM WAS OBTAINED EVERY EIGHT SPACECRAFT REVOLUTIONS. ANGULAR INFORMATION WAS OBTAINED IN EITHER 15 EQUALLY SPACED INTERVALS DURING A 360-DEG REVOLUTION OF THE SATELLITE OR MORE CLOSELY ABOUT THE SPACECRAFT SUNLINE.

----- IMP-J, FRANK -----

EXPERIMENT NAME- MEASUREMENT OF LOW-ENERGY PROTONS AND ELECTRONS

NSSDC ID- 73-078A-04

LAST REPORTED STATE- LAUNCHED AND OPERATING NORMALLY
AT THE STANDARD DATA ACQUISITION RATE SINCE 10/26/73.
EXPERIMENT PERSONNEL (PI=PRINCIPAL INVESTIGATOR, TL=TEAM LEADER
OI=OTHER INVESTIGATOR, TM=TEAM MEMBER)

PI - L.A. FRANKU OF IOWA
IOWA CITY, IA

EXPERIMENT BRIEF DESCRIPTION

THIS EXPERIMENT WAS DESIGNED TO MEASURE THE ENERGY SPECTRA OF LOW-ENERGY ELECTRONS AND PROTONS IN THE GEOCENTRIC RANGE 30 TO 40 R(E) TO GIVE FURTHER DATA ON GEOMAGNETIC STORMS, AURORA, TAIL AND NEUTRAL SHEET, AND OTHER MAGNETOSPHERIC PHENOMENA. THE DETECTOR WAS A DUAL-CHANNEL CURVED PLATE ELECTROSTATIC ANALYZER (LEPEDEA - LOW ENERGY PROTON AND ELECTRON DIFFERENTIAL ANALYZER) WITH 16 ENERGY INTERVALS BETWEEN 5 EV AND 50 KEV. IT HAD AN ANGULAR FIELD OF VIEW OF 9 DEG X 25 DEG. THE DETECTOR MAY BE OPERATED IN ONE OF TWO MODES (1) ONE PROVIDING GOOD ANGULAR RESOLUTION (16 DIRECTIONS FOR EACH PARTICLE ENERGY BAND) ONCE EACH 272 SEC, AND (2) ONE PROVIDING GOOD TEMPORAL RESOLUTION IN WHICH THE ENTIRE ENERGY RANGE IN FOUR DIRECTIONS IS MEASURED EVERY 68 SEC.

----- IMP-J, GLOECKLER -----

EXPERIMENT NAME- SOLID-STATE DETECTORS

NSSDC ID- 73-078A-03

LAST REPORTED STATE- LAUNCHED AND OPERATING NORMALLY

AT THE STANDARD DATA ACQUISITION RATE SINCE 10/26/73.

EXPERIMENT PERSONNEL (PI=PRINCIPAL INVESTIGATOR, TL=TEAM LEADER, OI=OTHER INVESTIGATOR, TM=TEAM MEMBER)

PI - G. GLOECKLERU OF MARYLAND
COLLEGE PARK, MD

OI - C.Y. FANU OF ARIZONA
TUCSON, AZ

OI - D.K. HOVESTADTMPI
GARCHING, FED REP OF GERMANY

EXPERIMENT BRIEF DESCRIPTION

THIS EXPERIMENT IS DESIGNED TO DETERMINE THE COMPOSITION AND ENERGY SPECTRA OF LOW-ENERGY PARTICLES OBSERVED DURING SOLAR FLARES AND 27-DAY RECURRENT EVENTS. THE DETECTORS USED WILL INCLUDE (1) AN ELECTROSTATIC ANALYZER (TO SELECT PARTICLES OF THE DESIRED ENERGY PER CHARGE) COMBINED WITH AN ARRAY OF WINDOWLESS SOLID-STATE DETECTORS (TO MEASURE THE ENERGY LOSS) AND SURROUNDED BY AN ANTICOINCIDENCE SHIELDING AND (2) A THIN WINDOW PROPORTIONAL COUNTER, SOLID-STATE PARTICLE TELESCOPE. THE EXPERIMENT WILL MEASURE PARTICLE ENERGIES FROM 0.1 TO 10 MEV PER CHARGE IN 12 BANDS AND WILL UNIQUELY IDENTIFY POSITRONS AND ELECTRONS AS WELL AS NUCLEI WITH CHARGES OF Z FROM 1 TO 8 (NO CHARGE RESOLUTION FOR Z GREATER THAN 8). TWO 1000-CHANNEL PULSE HEIGHT ANALYZERS, ONE FOR EACH DETECTOR, WILL BE INCLUDED IN THE EXPERIMENT PAYLOAD.

ORIGINAL PAGE IS
OF POOR QUALITY

----- IMP-J, GURNETT -----

EXPERIMENT NAME- ELECTROSTATIC WAVES AND RADIO NOISE

NSSDC ID- 73-078A-12

LAST REPORTED STATE- LAUNCHED AND OPERATING NORMALLY
AT THE STANDARD DATA ACQUISITION RATE SINCE 10/26/73.
EXPERIMENT PERSONNEL (PI=PRINCIPAL INVESTIGATOR, TL=TEAM LEADER
OI=OTHER INVESTIGATOR, TM=TEAM MEMBER)

PI - D.A. GURNETTU OF IOWA
IOWA CITY, IA
OI - T.L. AGGSONNASA-GSFC
GREENBELT, MD
OI - G.W. PFEIFFERU OF IOWA
IOWA CITY, IA

EXPERIMENT BRIEF DESCRIPTION

A WIDE-BAND RECEIVER WAS USED TO OBSERVE HIGH-RESOLUTION FREQUENCY-TIME SPECTRA, AND A SIX-CHANNEL NARROW-BAND RECEIVER WITH A VARIABLE CENTER FREQUENCY WILL BE USED TO OBSERVE WAVE CHARACTERISTICS. THE RECEIVERS OPERATED FROM THREE ANTENNA SYSTEMS. THE FIRST SYSTEM CONTAINED A PAIR OF LONG DIPOLE ANTENNAS (ONE, EXTENDABLE TO 400 FT. NORMAL TO THE SPACECRAFT SPIN AXIS AND THE OTHER ANTENNA, EXTENDABLE TO 20 FT. ALONG THE SPIN AXIS). THE SECOND SYSTEM CONTAINED A BOOM-MOUNTED TRIAD OF ORTHOGONAL LOOP ANTENNAS. THE THIRD SYSTEM CONSISTED OF A BOOM-MOUNTED 20-IN. SPIN AXIS DIPOLE. THE MAGNETIC AND ELECTRIC FIELD INTENSITIES AND FREQUENCY SPECTRA, POLARIZATION, AND DIRECTION OF ARRIVAL OF NATURALLY OCCURRING RADIO NOISE IN THE MAGNETOSPHERE WERE OBSERVED. PHENOMENA STUDIED WERE THE TIME-SPACE DISTRIBUTION, ORIGIN, PROPAGATION, DISPERSION, AND OTHER CHARACTERISTICS OF RADIO NOISES OCCURRING ACROSS AND ON EITHER SIDE OF THE MAGNETOSPHERIC BOUNDARY REGION. THE FREQUENCY RANGE FOR ELECTRIC FIELDS WAS 0.3 HZ TO 200 KHZ AND FOR MAGNETIC FIELDS, IT WAS 20 HZ TO 200 KHZ.

----- IMP-J, KRIMIGIS -----

EXPERIMENT NAME- CHARGED PARTICLE MEASUREMENTS
EXPERIMENT

NSSDC ID- 73-078A-08

LAST REPORTED STATE- LAUNCHED AND OPERATING NORMALLY
AT THE STANDARD DATA ACQUISITION RATE SINCE 12/03/74.
EXPERIMENT PERSONNEL (PI=PRINCIPAL INVESTIGATOR, TL=TEAM LEADER
OI=OTHER INVESTIGATOR, TM=TEAM MEMBER)

PI - S.M. KRIMIGISAPPLIED PHYSICS LAB
 LAUREL, MD
 OI - T.P. ARMSTRONGU OF KANSAS
 LAWRENCE, KS
 OI - J.A. VAN ALLENU OF IOWA
 IOWA CITY, IA

EXPERIMENT BRIEF DESCRIPTION

THREE SOLID-STATE DETECTORS IN AN ANTICOINCIDENCE PLASTIC SCINTILLATOR OBSERVED ELECTRONS BETWEEN 0.2 AND 2.5 MEV, PROTONS BETWEEN 0.3 AND 500 MEV, ALPHA PARTICLES BETWEEN 2.0 AND 200 MEV, HEAVY PARTICLES WITH Z VALUES RANGING FROM 2 TO 5 WITH ENERGIES GREATER THAN 8 MEV, HEAVY PARTICLES WITH Z VALUES RANGING BETWEEN 6 AND 8 WITH ENERGIES GREATER THAN 32 MEV, AND INTEGRAL PROTONS AND ALPHAS OF ENERGIES GREATER THAN 50 MEV/NUCLEON, ALL WITH DYNAMIC RANGES OF 1 TO ONE MILLION (PER SQUARE CM-SEC-STER). FIVE THIN WINDOW GEIGER-MUELLER TUBES WILL OBSERVE ELECTRONS OF ENERGY GREATER THAN 15 KEV, PROTONS OF ENERGY GREATER THAN 250 KEV, AND X RAYS WITH WAVELENGTHS BETWEEN 2 AND 10 A, ALL WITH A DYNAMIC RANGE OF 10 TO 100 MILLION (PER SQUARE CM-SEC-STER). PARTICLES AND X RAYS PRIMARILY OF SOLAR ORIGIN WILL BE STUDIED, BUT THE DYNAMIC RANGE AND RESOLUTION OF THE INSTPERMITTED OBSERVATION OF COSMIC RAYS AND MAGNETOTAIL PARTICLES OBSERVED.

----- IMP-J, MCDONALD -----

EXPERIMENT NAME- SOLAR AND COSMIC-RAY PARTICLES

NSSDC ID- 73-078A-09

LAST REPORTED STATE- LAUNCHED AND OPERATING NGRMALLY

AT THE STANDARD DATA ACQUISITION RATE SINCE 10/26/73.

EXPERIMENT PERSONNEL (PI=PRINCIPAL INVESTIGATOR, TL=TEAM LEADER
 OI=OTHER INVESTIGATOR, TM=TEAM MEMBER)

PI - F.B. MCDONALDNASA-GSFC
 GREENBELT, MD
 OI - UNKNOWNNASA-JSC
 HOUSTON, TX
 OI - B.J. TEEGARDENNASA-GSFC
 GREENBELT, MD

EXPERIMENT BRIEF DESCRIPTION

THE GSFC COSMIC-RAY EXPERIMENT WAS DESIGNED TO MEASURE ENERGY SPECTRA, COMPOSITION, AND ANGULAR DISTRIBUTIONS OF SOLAR AND GALACTIC ELECTRONS, PROTONS, AND HEAVIER NUCLEI UP TO Z = 30. THREE DISTINCT DETECTOR SYSTEMS WERE USED. THE FIRST SYSTEM CONSISTED OF A PAIR OF SOLID-STATE TELESCOPES WHICH MEASURED INTEGRAL FLUXES OF ELECTRONS ABOVE 150, 350, AND 700 KEV AND OF PROTONS ABOVE .05, .15, .50, .70, 1.0, 1.2, 2.0, 2.5, 5.0, AND 15, AND 25 MEV. EXCEPT FOR THE .05 MEV PROTON MODE. ALL COUNTING MODES HAD UNIQUE SPECIES

IDENTIFICATION. THE SECOND DETECTOR SYSTEM WAS A SOLID-STATE DE/DX VS E TELESCOPE THAT LOOKED PERPENDICULAR TO THE SPIN AXIS. THIS TELESCOPE MEASURED Z = 1 TO 16 NUCLEI WITH ENERGIES BETWEEN 4 AND 20 MEV/NUCLEON. COUNTS OF PARTICLES IN THE 0.5 TO 4 MEV/NUCLEON RANGE, WITH NO CHARGE RESOLUTION, WERE OBTAINED AS COUNTS IN THE DE/DX BUT NOT IN THE E SENSOR. THE THIRD DETECTOR SYSTEM WAS A THREE-ELEMENT TELESCOPE WHOSE AXIS MADE AN ANGLE OF 39 DEG WITH RESPECT TO THE SPIN AXIS. THE MIDDLE ELEMENT WAS A CSI SCINTILLATOR, WHILE THE OTHER TWO ELEMENTS WERE SOLID-STATE SENSORS. THE INSTRUMENT RESPONDED TO ELECTRONS BETWEEN 2 AND 12 MEV AND TO Z = 1 TO 30 NUCLEI IN THE ENERGY RANGE 20 TO 500 MEV/NUCLEON. FOR PARTICLES BELOW 80 MEV, THIS INSTRUMENT ACTED AS A DE/DX DETECTOR. ABOVE 89 MEV, IT ACTED AS A BIDIRECTIONAL TRIPLE DE/DX DETECTOR. FLUX DIRECTIONALITY INFORMATION WAS OBTAINED BY DIVIDING CERTAIN PORTIONS OF THE DATA FROM EACH DETECTOR INTO EIGHT ANGULAR SECTORS.

----- IMP-J, NESS -----

EXPERIMENT NAME- MAGNETIC FIELD EXPERIMENT

NSSDC ID- 73-078A-01

LAST REPORTED STATE- LAUNCHED AND OPERATING NORMALLY

AT THE STANDARD DATA ACQUISITION RATE SINCE 10/26/73.

EXPERIMENT PERSONNEL (PI=PRINCIPAL INVESTIGATOR, TL=TEAM LEADER
OI=OTHER INVESTIGATOR, TM=TEAM MEMBER)

PI -	N.F.	NESS	NASA-GSFC
			GREENBELT, MD
OI -	C.S.	SCEARCE	NASA-GSFC
			GREENBELT, MD
OI -	J.B.	SEEK	NASA-GSFC
			GREENBELT, MD

EXPERIMENT BRIEF DESCRIPTION

THIS EXPERIMENT CONSISTED OF A BOOM-MOUNTED TRIAXIAL FLUXGATE MAGNETOMETER DESIGNED TO STUDY THE INTERPLANETARY AND GEOMAGNETIC TAIL MAGNETIC FIELDS. EACH SENSOR HAD THREE DYNAMIC RANGES, PLUS OR MINUS 12, PLUS OR MINUS 36, AND PLUS OR MINUS 108 GAMMAS. WITH THE AID OF A BIT COMPACTION SCHEME (DELTA MODULATION), THERE WERE 25 VECTOR MEASUREMENTS MADE AND TELEMETERED PER SECOND. THE EXPERIMENT OPERATED NORMALLY FROM LAUNCH UNTIL MID 1975. ON JULY 11, 1975, BECAUSE OF A RANGE INDICATOR PROBLEM, THE EXPERIMENT OPERATION WAS FROZEN INTO THE 36 GAMMA RANGE. THE DIGITATION ACCURACY IN THIS RANGE IS ABOUT PLUS OR MINUS 0.3 GAMMA.

----- IMP-J, SIMPSON -----

EXPERIMENT NAME- SOLAR FLARE HIGH-Z/LOW-E AND LOW-Z
EXPERIMENTS

NSSDC ID- 73-078A-07

LAST REPORTED STATE- LAUNCHED AND OPERATING NORMALLY
AT THE STANDARD DATA ACQUISITION RATE SINCE 10/26/73.

EXPERIMENT PERSONNEL (PI=PRINCIPAL INVESTIGATOR, TL=TEAM LEADER
OI=OTHER INVESTIGATOR, TM=TEAM MEMBER)

PI - J.A. SIMPSONU OF CHICAGO
CHICAGO, IL

OI - M. GARCIA-MUNOZU OF CHICAGO
CHICAGO, IL

EXPERIMENT BRIEF DESCRIPTION

THIS EXPERIMENT WAS DESIGNED TO INCREASE THE UNDERSTANDING OF SOLAR FLARE PARTICLE ACCELERATION AND PARTICLE CONTAINMENT IN MAGNETIC FIELDS IN THE VICINITY OF THE SUN. THE DETECTOR POINTED ALONG THE SPACECRAFT SPIN AXIS. IT WAS A WINDOWLESS DE/DX VS E TELESCOPE WITH ANTICOINCIDENCE SHIELDING AND OPERATED IN EITHER OF TWO MODES - (1) A HIGH-Z, LOW-E MODE HAVING AN ENERGY RANGE FROM 0.5 TO 50 MEV/NUCLEON AND A CHARGE RANGE Z FROM 5 TO 50 AND (2) A LOW MODE HAVING AN ENERGY RANGE 6 TO 1200 MEV/NUCLEON (ISOTOPES - HYDROGEN, DEUTERIUM, TRITIUM, HELIUM-3, HELIUM-4). THE ENERGY RANGE FOR ELECTRONS WAS PRIMARILY 0.3 TO 10 MEV. THE ACCEPTANCE ANGLE OF THE DETECTOR WAS A 50 DEG FULL ANGLE.

----- IMP-J, STONE -----

EXPERIMENT NAME- ELECTRONS AND HYDROGEN AND HELIUM
ISOTOPES

NSSDC ID- 73-078A-06

LAST REPORTED STATE- LAUNCHED AND OPERATING NORMALLY
AT THE STANDARD DATA ACQUISITION RATE SINCE 10/26/73.

EXPERIMENT PERSONNEL (PI=PRINCIPAL INVESTIGATOR, TL=TEAM LEADER
OI=OTHER INVESTIGATOR, TM=TEAM MEMBER)

PI - E.C. STONECALIF INST OF TECH
PASADENA, CA

OI - R.E. VOGTCALIF INST OF TECH
PASADENA, CA

EXPERIMENT BRIEF DESCRIPTION

THIS EXPERIMENT IS DESIGNED TO STUDY (VIA DIFFERENTIAL ENERGY SPECTRA) LOCAL ACCELERATION OF PARTICLES, ACCELERATION

PROCESSES OF SOLAR PARTICLES, STORAGE IN THE INTERPLANETARY MEDIUM, AND SOLAR MODULATION OF PARTICLES IN THE INTERPLANETARY MEDIUM. THE DETECTOR USED WAS MULTI-ELEMENT, TOTALLY DEPLETED SOLID-STATE TELESCOPE WITH ANTICOINCIDENCE SHIELDING AND IS TO BE OPERATED IN ONE OF THREE MODES -- (1) THE ENERGY RANGE MODE, (2) THE ELECTRON MODE (150 KEV TO 2.8 MEV), AND (3) THE HYDROGEN AND HELIUM ISOTOPES MODE (0.5 TO 40 MEV/NUCLEON). THE DETECTOR WILL HAVE AN ANGULAR RESOLUTION OF PLUS TO MINUS 22 DEG.

----- IMP-J, WILLIAMS -----

EXPERIMENT NAME- ENERGETIC ELECTRONS AND PROTONS

NSSDC ID- 73-078A-05

LAST REPORTED STATE- LAUNCHED AND OPERATING NORMALLY AT THE STANDARD DATA ACQUISITION RATE SINCE 10/26/73.
EXPERIMENT PERSONNEL (PI=PRINCIPAL INVESTIGATOR, TL=TEAM LEADER, OI=OTHER INVESTIGATOR, TM=TEAM MEMBER)

- PI - D.J. WILLIAMSNOAA-ERL
BOULDER, CO
- OI - C.O. BOSTROMAPPLIED PHYSICS LAB
LAUREL, MD
- OI - J.C. ARMSTRONG(DECEASED)..APPLIED PHYSICS LAB
LAUREL, MD
- OI - J.H. TRAINORNASA-GSFC
GREENBELT, MD

EXPERIMENT BRIEF DESCRIPTION

THE PURPOSES OF THIS EXPERIMENT WERE (1) TO STUDY THE PROPAGATION CHARACTERISTICS OF SOLAR COSMIC RAYS THROUGH THE INTERPLANETARY MEDIUM OVER THE ENERGY RANGES INDICATED BELOW, (2) TO STUDY ELECTRON AND PROTON PATCHES THROUGHOUT THE GEOMAGNETIC TAIL AND NEAR AND THROUGH THE FLANKS OF THE MAGNETOPAUSE, AND (3) TO STUDY THE ENTRY OF SOLAR COSMIC RAYS INTO THE GEOMAGNETIC FIELD. THE INSTRUMENTATION CONSISTED OF A THREE-ELEMENT TELESCOPE CONFIGURATION EMPLOYING SOLID-STATE DETECTORS AND A MAGNETIC FIELD TO DEFLECT ELECTRONS. TWO SIDE-MOUNTED DETECTORS WERE USED TO DETECT THE ELECTRONS DEFLECTED BY THE MAGNET. TWO ADDITIONAL SOLID-STATE DETECTORS WERE USED TO DETECT VERY LOW-ENERGY (GREATER THAN 15 KEV) PROTONS, ALPHA PARTICLES, AND CHARGED PARTICLES OF Z GREATER THAN 2. THE EXPERIMENT WAS DESIGNED TO MEASURE (1) PROTON FLUXES FROM 30 KEV TO GREATER THAN 8.6 MEV IN SIX RANGES, (2) ELECTRON FLUXES FROM 30 KEV TO GREATER THAN 450 KEV IN THREE RANGES, (3) CHARGED PARTICLES GREATER THAN 15 KEV, (4) ALPHA PARTICLES IN FOUR RANGES, GREATER THAN 0.5 MEV, GREATER THAN 1.0 MEV, 2.2 TO 8.8 MEV, AND 8.8 TO 35 MEV, AND (5) CHARGED PARTICLES OF Z GREATER THAN 2 AT E GREATER THAN 5 MEV.

REFERENCE

Fairfield, D. H., "Average and Unusual Locations of the Earth's Magnetopause and Bow Shock," J. Geophys. Res., 76, 28, 6700, October 1971.

Table 1. ORBIT PARAMETER SUMMARY TABLE FOR IMP-J

Alternate Satellite Names	PL-723A IMP 8 Explorer 50 6893
International ID	73-078A
Epoch (YY-MM-DD-HH-MM)	76-01-01-00-00
Period (min)	17362.9
Eccentricity	0.07
Inclination (deg)	21.26
R.A. of Ascending Node (deg)	138.71
Argument of Perigee (deg)	186.78
Mean Anomaly (deg)	109.84
Semimajor Axis (km)	220774.6
Perigee Height (km)	196990.1
Apogee Height (km)	231802.7
Local Time of Apogee (HH-MM)	02-57
Latitude of Perigee (deg)	-5.12

Table 2. TIMES FOR WHICH IMP-J IS INTERPLANETARY

Entry (day/hr)	Exit (day/hr)	Entry (day/hr)	Exit (day/hr)
4/11	11/17	191/13	199/13
16/22	23/22	204/8	212/7
29/16	36/7	216/19	224/13
41/21	48/15	229/1	236/21
54/5	60/22	241/7	249/6
66/8	73/4	253/11	261/15
78/14	85/20	265/19	273/23
91/1	98/12	278/9	286/11
103/21	110/23	290/20	299/12
116/10	123/14	303/15	312/8
128/19	136/16	316/8	324/17
141/8	149/7	328/19	337/2
153/22	161/20	341/9	349/9
166/6	174/9	354/1	361/17
178/16	186/18		

Table 3. IMP-J NEUTRAL SHEET ENCOUNTERS FOR 1976

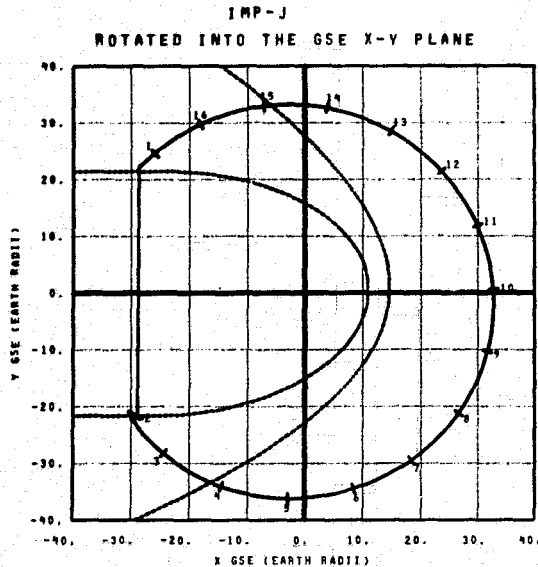
	Time (day/hr)	Y_{GSM} (Earth radii)	Altitude (Earth radii)
Period 1	28/3	-21	37.8
	40/0	-14	37.5
	51/22	0	37.3
	63/3	+15	37.8
	74/21	+21	37.1
Period 2	190/2	-21	33.8
	202/18	-14	33.6
	214/22	-4	32.5
	227/0	0	31.5
	238/19	+10	31.8
	250/24	+15	31.2
	262/22	+20	31.8
Period 3	365/6	-20	38.0

Table 4. IMP-J EXPERIMENT STATUS SUMMARY

Experiment	Principal Investigator	Status	IMS Program Summary No.
Electrostatic Fields	T. L. Aggson	Op	
Solar Plasma	S. J. Bame	Op	
Solar Plasma	H. S. Bridge	Op	
Low-Energy Electrons/Protons	L. A. Frank	Op	
Solid-State Detectors	G. Gloeckler	Op	
Electrostatic Waves/Radio Noise	D. A. Gurnett	Op	0181
Charged Particle	S. M. Krimigis	Op	
Solar/Cosmic Ray Particles	F. B. McDonald	Op	
Magnetic Fields	N. F. Ness	Op	0467*
Solar Flare Isotope	J. A. Simpson	Op	
Electrons/Hydrogen/Helium Isotope	E. C. Stone	Op	
Energetic Electrons/Protons	D. J. Williams	Op	0173

*This experiment is not identified under this IMS Program Summary number.

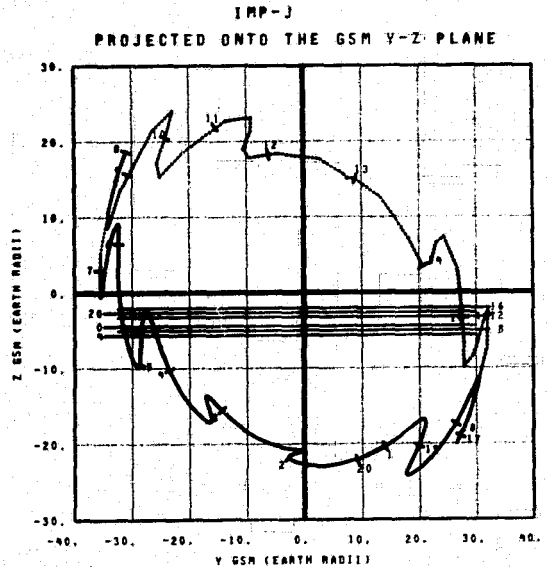
Op: Operating Normally



INTERPRETATION OF TIME CODE-NUMBERS

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2-1976/ 1/ 12.00N	LAT= -37.2	12-1976/ 9/ 13.00N	LAT= 7.1
3-1976/ 3/ 10.00N	LAT= -4.0	13-1976/ 10/ 0.00N	LAT= -11.4
4-1976/ 9/ 10.00N	LAT= 9.0	14-1976/ 11/ 2.00N	LAT= -27.0
5-1976/ 5/ 10.00N	LAT= 24.4	15-1976/ 11/ 10.00N	LAT= -37.1
6-1976/ 6/ 2.00N	LAT= 30.5	16-1976/ 12/ 12.00N	LAT= -91.7
7-1976/ 6/ 16.00N	LAT= 39.9		
8-1976/ 7/ 4.00N	LAT= 41.9		
9-1976/ 7/ 16.00N	LAT= 46.2		
10-1976/ 8/ 4.00N	LAT= 34.7		

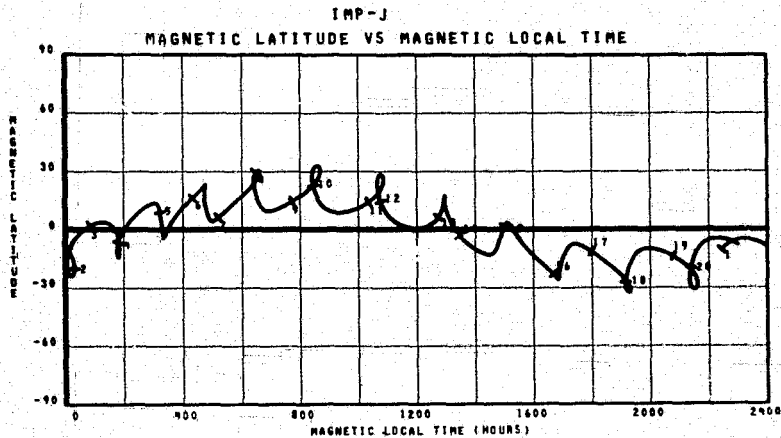
TIME AS YEAR/DAY/HOUR
LAT IS GSE LATITUDE IN DEGREES
TIME INTERVAL OF PLOT 1976/ 1/ 0.00N TO 1976/ 13/ 7.00N



INTERPRETATION OF TIME CODE-NUMBERS

1-1976/ 1/ 0.00N	R= 35.0RE	11-1976/ 7/ 5.00N	R= 33.9RE
2-1976/ 1/ 12.00N	R= 36.3RE	12-1976/ 8/ 2.00N	R= 32.0RE
3-1976/ 2/ 0.00N	R= 37.0RE	13-1976/ 8/ 23.00N	R= 32.1RE
4-1976/ 3/ 5.00N	R= 37.3RE	14-1976/ 9/ 11.00N	R= 31.9RE
5-1976/ 3/ 21.00N	R= 37.3RE	15-1976/ 10/ 4.00N	R= 32.1RE
6-1976/ 4/ 0.00N	R= 37.1RE	16-1976/ 10/ 24.00N	R= 32.1RE
7-1976/ 5/ 2.00N	R= 36.4RE	17-1976/ 11/ 9.00N	R= 34.2RE
8-1976/ 5/ 12.00N	R= 36.2RE	18-1976/ 12/ 4.00N	R= 34.3RE
9-1976/ 6/ 9.00N	R= 35.4RE	19-1976/ 12/ 17.00N	R= 35.1RE
10-1976/ 6/ 16.00N	R= 34.7RE	20-1976/ 13/ 7.00N	R= 35.4RE

TIME AS YEAR/DAY/HOUR
R IS GEOCENTRIC DISTANCE IN EARTH RADII
TIME INTERVAL OF PLOT 1976/ 1/ 0.00N TO 1976/ 13/ 7.00N



INTERPRETATION OF TIME CODE-NUMBERS

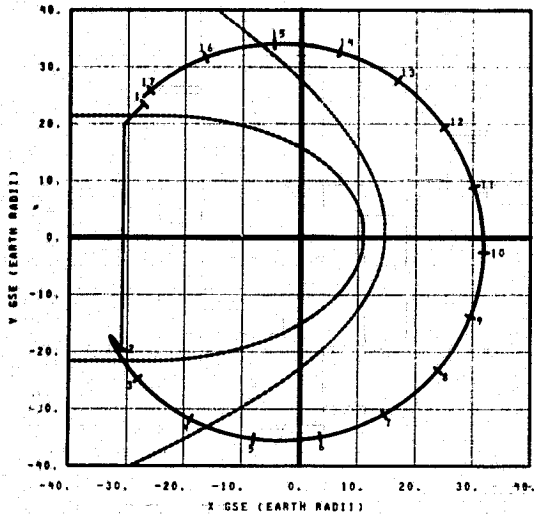
1-1976/ 1/ 0.00N	R= 35.0RE	9-1976/ 7/ 15.00N	R= 35.1RE	13-1976/ 8/ 23.00N	R= 32.1RE
2-1976/ 1/ 12.00N	R= 36.3RE	10-1976/ 8/ 19.00N	R= 34.9RE	14-1976/ 9/ 11.00N	R= 31.9RE
3-1976/ 2/ 0.00N	R= 37.0RE	11-1976/ 9/ 13.00N	R= 37.1RE	15-1976/ 10/ 4.00N	R= 32.1RE
4-1976/ 3/ 5.00N	R= 37.3RE	12-1976/ 10/ 2.00N	R= 37.0RE	16-1976/ 10/ 24.00N	R= 32.1RE
5-1976/ 3/ 21.00N	R= 37.3RE	13-1976/ 11/ 9.00N	R= 34.2RE	17-1976/ 11/ 9.00N	R= 34.2RE
6-1976/ 4/ 0.00N	R= 37.1RE	14-1976/ 11/ 2.00N	R= 36.4RE	18-1976/ 12/ 4.00N	R= 34.3RE
7-1976/ 5/ 2.00N	R= 36.4RE	15-1976/ 12/ 4.00N	R= 35.4RE	19-1976/ 12/ 17.00N	R= 35.1RE
8-1976/ 5/ 12.00N	R= 36.2RE	16-1976/ 12/ 17.00N	R= 34.7RE	20-1976/ 13/ 7.00N	R= 35.4RE

TIME AS YEAR/DAY/HOUR
TIME INTERVAL OF PLOT 1976/ 1/ 0.00N TO 1976/ 13/ 7.00N

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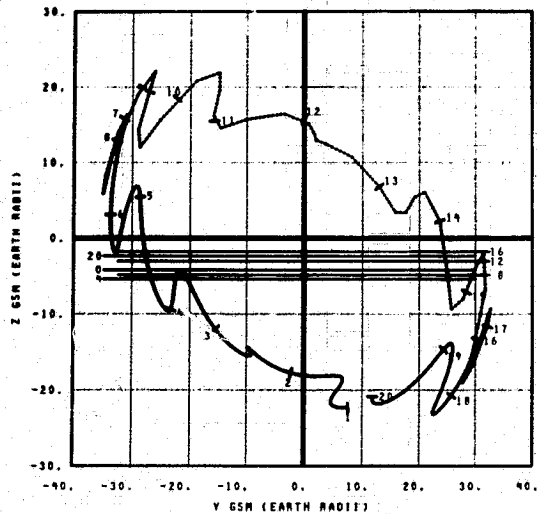
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3-1976/15/ 20.00H	LAT= -1.9	13-1976/22/ 13.00H	LAT= -19.2
4-1976/16/ 18.00H	LAT= 14.2	14-1976/23/ 5.00H	LAT= -31.7
5-1976/17/ 13.00H	LAT= 27.9	15-1976/23/ 20.00H	LAT= -39.4
6-1976/18/ 6.00H	LAT= 36.4	16-1976/24/ 14.00H	LAT= -31.9
7-1976/18/ 19.00H	LAT= 31.1	17-1976/25/ 8.00H	LAT= -37.7
8-1976/19/ 7.00H	LAT= 41.9		
9-1976/19/ 18.00H	LAT= 39.0		
10-1976/20/ 7.00H	LAT= 31.5		

TIME AS YEAR/DAY/HOUR
LAT IS GSE LATITUDE IN DEGREES
TIME INTERVAL OF PLOT 1976/ 13/ 7.00H TO 1976/ 25/13.00H

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PROJECTED ONTO THE GSM Y-Z PLANE



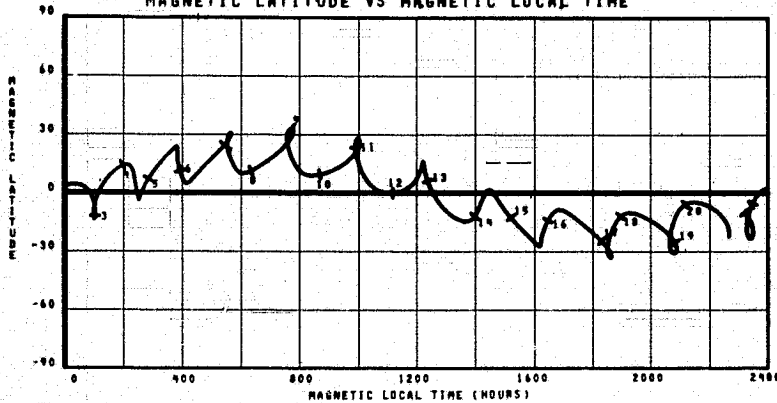
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2-1976/14/ 5.00H	R= 36.9R _E	12-1976/20/ 10.00H	R= 31.9R _E
3-1976/15/ 4.00H	R= 37.5R _E	13-1976/21/ 7.00H	R= 31.5R _E
4-1976/15/ 21.00H	R= 37.5R _E	14-1976/22/ 3.00H	R= 31.9R _E
5-1976/16/ 9.00H	R= 37.3R _E	15-1976/22/ 16.00H	R= 32.5R _E
6-1976/17/ 3.00H	R= 36.6R _E	16-1976/23/ 6.00H	R= 33.4R _E
7-1976/17/ 13.00H	R= 36.1R _E	17-1976/23/ 19.00H	R= 34.3R _E
8-1976/18/ 4.00H	R= 35.2R _E	18-1976/24/ 7.00H	R= 35.2R _E
9-1976/18/ 19.00H	R= 34.9R _E	19-1976/25/ 1.00H	R= 36.4R _E
10-1976/19/ 5.00H	R= 33.5R _E	20-1976/25/ 13.00H	R= 37.0R _E

TIME AS YEAR/DAY/HOUR
R IS HECENTRIC DISTANCE IN EARTH RADII
TIME INTERVAL OF PLOT 1976/ 13/ 7.00H TO 1976/ 25/13.00H

IMP-J

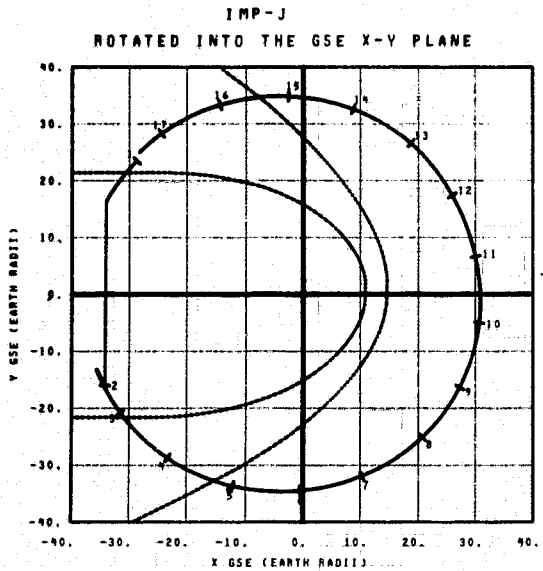
MAGNETIC LATITUDE VS MAGNETIC LOCAL TIME



INTERPRETATION OF TIME CODE-NUMBERS

1-1976/13/ 0.00H	R= 36.8R _E	8-1976/18/ 1.00H	R= 35.4R _E	15-1976/22/ 1.00H	R= 31.0R _E
2-1976/13/ 21.00H	R= 36.7R _E	9-1976/18/ 12.00H	R= 35.4R _E	16-1976/22/ 17.00H	R= 31.0R _E
3-1976/15/ 20.00H	R= 37.5R _E	10-1976/19/ 10.00H	R= 35.4R _E	17-1976/23/ 6.00H	R= 33.4R _E
4-1976/16/ 18.00H	R= 37.5R _E	11-1976/20/ 23.00H	R= 35.4R _E	18-1976/23/ 19.00H	R= 34.3R _E
5-1976/17/ 13.00H	R= 37.3R _E	12-1976/21/ 18.00H	R= 35.4R _E	19-1976/24/ 7.00H	R= 35.2R _E
6-1976/18/ 6.00H	R= 36.6R _E	13-1976/22/ 13.00H	R= 35.4R _E	20-1976/25/ 1.00H	R= 36.4R _E
7-1976/18/ 19.00H	R= 36.1R _E	14-1976/23/ 5.00H	R= 35.4R _E		

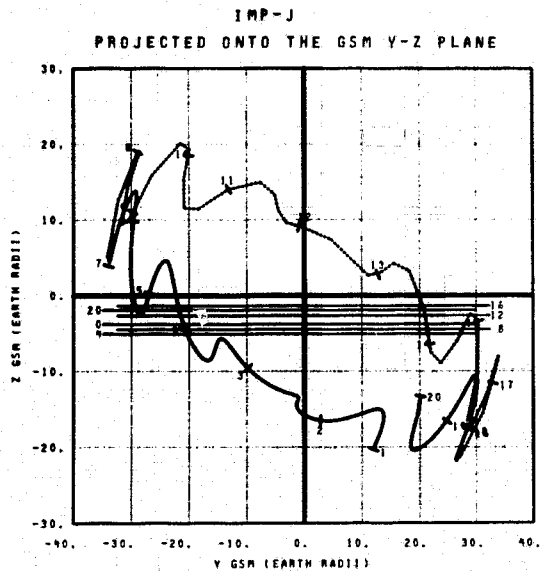
TIME AS YEAR/DAY/HOUR
TIME INTERVAL OF PLOT 1976/ 13/ 7.00H TO 1976/ 25/13.00H



INTERPRETATION OF TIME CODE-NUMBERS

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2- 1976/ 26/ 9.00H	LAT= -25.0	12- 1976/ 33/ 24.00H	LAT= -0.9
3- 1976/ 26/ 3.00H	LAT= 3.0	13- 1976/ 34/ 18.00H	LAT= -25.6
4- 1976/ 28/ 23.00H	LAT= 17.1	14- 1976/ 35/ 9.00H	LAT= -35.0
5- 1976/ 29/ 10.00H	LAT= 29.6	15- 1976/ 35/ 23.00H	LAT= -41.2
6- 1976/ 30/ 11.00H	LAT= 30.6	16- 1976/ 36/ 16.00H	LAT= -41.8
7- 1976/ 30/ 23.00H	LAT= 42.0	17- 1976/ 37/ 9.00H	LAT= -37.8
8- 1976/ 31/ 11.00H	LAT= 41.6		
9- 1976/ 31/ 22.00H	LAT= 37.4		
10- 1976/ 32/ 12.00H	LAT= 27.9		

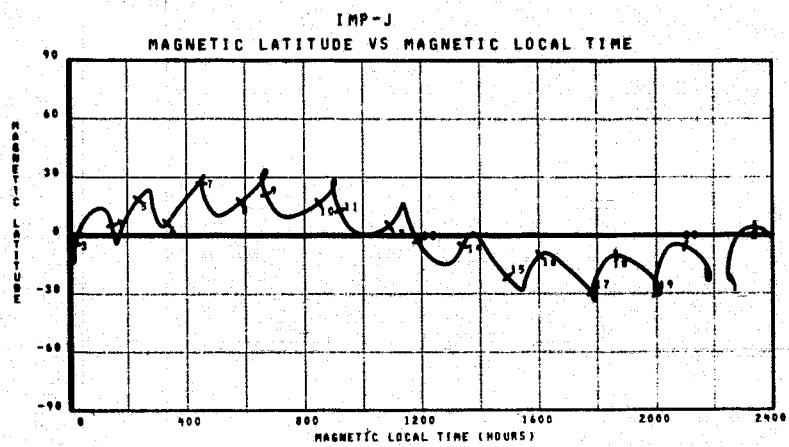
TIME AS YEAR/DAY/HOUR
LAT IS GSE LATITUDE IN DEGREES
TIME INTERVAL OF PLOT 1976/ 25/13.00H TO 1976/ 37/19.00H



INTERPRETATION OF TIME CODE-NUMBERS

1- 1976/ 25/ 14.00H	R= 37.1RE	11- 1976/ 32/ 5.00H	R= 31.4RE
2- 1976/ 26/ 9.00H	R= 37.0RE	12- 1976/ 32/ 24.00H	R= 30.0RE
3- 1976/ 27/ 6.00H	R= 30.1RE	13- 1976/ 33/ 16.00H	R= 31.0RE
4- 1976/ 28/ 4.00H	R= 37.0RE	14- 1976/ 34/ 0.00H	R= 31.0RE
5- 1976/ 28/ 10.00H	R= 37.2RE	15- 1976/ 35/ 1.00H	R= 32.1RE
6- 1976/ 29/ 7.00H	R= 36.5RE	16- 1976/ 35/ 13.00H	R= 34.1RE
7- 1976/ 29/ 22.00H	R= 35.5RE	17- 1976/ 36/ 2.00H	R= 35.3RE
8- 1976/ 30/ 9.00H	R= 34.8RE	18- 1976/ 36/ 16.00H	R= 34.3RE
9- 1976/ 31/ 2.00H	R= 33.5RE	19- 1976/ 37/ 5.00H	R= 37.1RE
10- 1976/ 31/ 14.00H	R= 32.3RE	20- 1976/ 37/ 19.00H	R= 37.0RE

TIME AS YEAR/DAY/HOUR
R IS GEOCENTRIC DISTANCE IN EARTH RADI
TIME INTERVAL OF PLOT 1976/ 25/13.00H TO 1976/ 37/19.00H



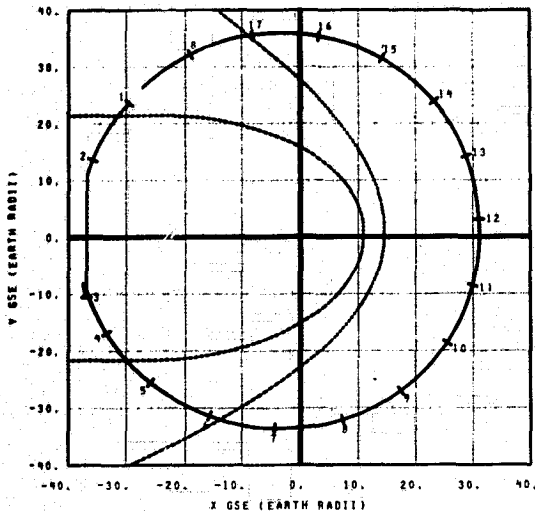
INTERPRETATION OF TIME CODE-NUMBERS

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3- 1976/ 26/ 3.00H	R= 30.1RE	13- 1976/ 33/ 16.00H	R= 31.0RE
4- 1976/ 28/ 23.00H	R= 37.0RE	14- 1976/ 34/ 0.00H	R= 31.0RE
5- 1976/ 29/ 10.00H	R= 37.2RE	15- 1976/ 35/ 1.00H	R= 32.1RE
6- 1976/ 29/ 7.00H	R= 36.5RE	16- 1976/ 35/ 13.00H	R= 34.1RE
7- 1976/ 29/ 22.00H	R= 35.5RE	17- 1976/ 36/ 2.00H	R= 35.3RE
8- 1976/ 30/ 9.00H	R= 34.8RE	18- 1976/ 36/ 16.00H	R= 34.3RE
9- 1976/ 31/ 2.00H	R= 33.5RE	19- 1976/ 37/ 5.00H	R= 37.1RE
10- 1976/ 31/ 14.00H	R= 32.3RE	20- 1976/ 37/ 19.00H	R= 37.0RE

TIME AS YEAR/DAY/HOUR
TIME INTERVAL OF PLOT 1976/ 25/13.00H TO 1976/ 37/19.00H

IMP-J

ROTATED INTO THE GSE X-Y PLANE



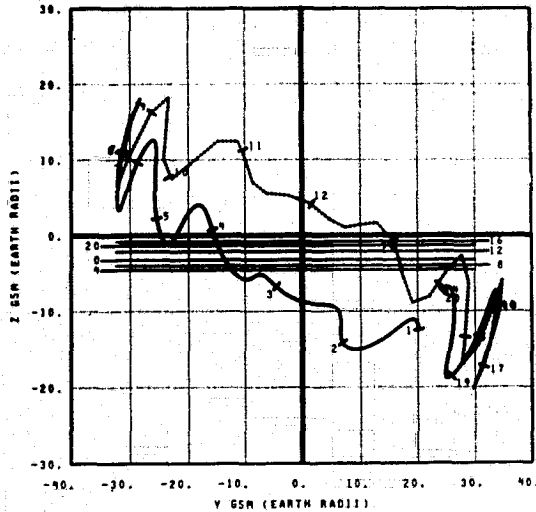
INTERPRETATION OF TIME CODE-NUMBERS

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2- 1976/ 38/ 16.00H	LAT= -20.4	12- 1976/ 45/ 8.00H	LAT= 5.0
3- 1976/ 38/ 23.00H	LAT= -13.9	13- 1976/ 46/ 3.00H	LAT= -13.3
4- 1976/ 40/ 9.00H	LAT= 7.3	14- 1976/ 46/ 20.00H	LAT= -27.7
5- 1976/ 41/ 3.00H	LAT= 20.3	15- 1976/ 47/ 11.00H	LAT= -37.0
6- 1976/ 41/ 20.00H	LAT= 31.4	16- 1976/ 47/ 24.00H	LAT= -41.4
7- 1976/ 42/ 12.00H	LAT= 39.3	17- 1976/ 48/ 19.00H	LAT= -42.8
8- 1976/ 42/ 1.00H	LAT= 42.2	18- 1976/ 49/ 8.00H	LAT= -37.6
9- 1976/ 43/ 12.00H	LAT= 40.6		
10- 1976/ 43/ 24.00H	LAT= 34.7		

TIME AS YEAR/DAY/HOUR
 LAT IS GSE LATITUDE IN DEGREES
 TIME INTERVAL OF PLOT 1976/ 37/19.00H TO 1976/ 50/ 1.00H

IMP-J

PROJECTED ONTO THE GSM Y-Z PLANE



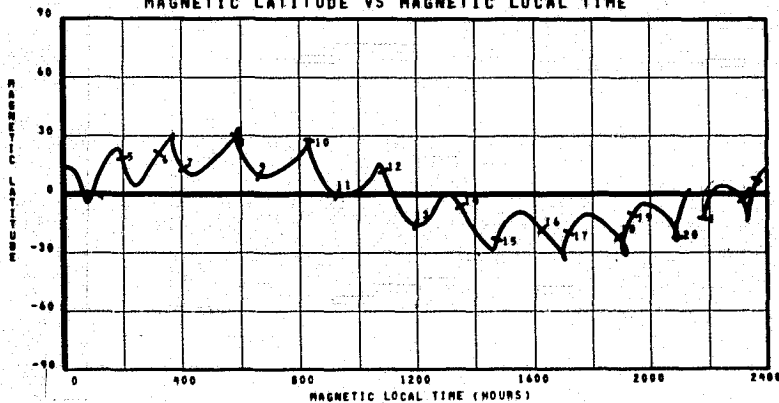
INTERPRETATION OF TIME CODE-NUMBERS

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2- 1976/ 38/ 12.00H	R= 30.2R _E	12- 1976/ 45/ 7.00H	R= 21.2R _E
3- 1976/ 39/ 9.00H	R= 30.2R _E	13- 1976/ 46/ 3.00H	R= 32.1R _E
4- 1976/ 40/ 7.00H	R= 37.9R _E	14- 1976/ 46/ 17.00H	R= 33.1R _E
5- 1976/ 41/ 3.00H	R= 36.4R _E	15- 1976/ 47/ 7.00H	R= 34.2R _E
6- 1976/ 41/ 16.00H	R= 35.9R _E	16- 1976/ 47/ 19.00H	R= 35.1R _E
7- 1976/ 42/ 5.00H	R= 39.4R _E	17- 1976/ 48/ 7.00H	R= 36.0R _E
8- 1976/ 42/ 18.00H	R= 33.4R _E	18- 1976/ 49/ 20.00H	R= 36.9R _E
9- 1976/ 43/ 7.00H	R= 32.4R _E	19- 1976/ 49/ 9.00H	R= 37.9R _E
10- 1976/ 43/ 22.00H	R= 31.6R _E	20- 1976/ 50/ 1.00H	R= 37.9R _E

TIME AS YEAR/DAY/HOUR
 R IS GEOCENTRIC DISTANCE IN EARTH RADII
 TIME INTERVAL OF PLOT 1976/ 37/19.00H TO 1976/ 50/ 1.00H

IMP-J

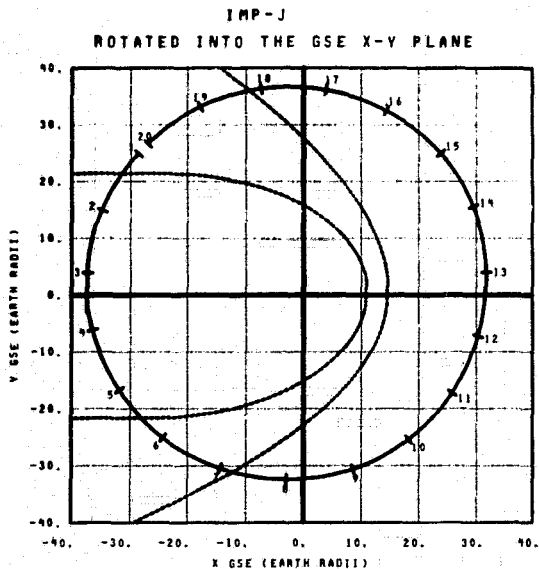
MAGNETIC LATITUDE VS MAGNETIC LOCAL TIME



INTERPRETATION OF TIME CODE-NUMBERS

1- 1976/ 37/ 20.00H	R= 37.0R _E	11- 1976/ 40/ 19.00H	R= 31.1R _E
2- 1976/ 38/ 12.00H	R= 30.2R _E	12- 1976/ 45/ 7.00H	R= 21.2R _E
3- 1976/ 39/ 9.00H	R= 30.2R _E	13- 1976/ 46/ 3.00H	R= 32.1R _E
4- 1976/ 40/ 7.00H	R= 37.9R _E	14- 1976/ 46/ 17.00H	R= 33.1R _E
5- 1976/ 41/ 3.00H	R= 36.4R _E	15- 1976/ 47/ 7.00H	R= 34.2R _E
6- 1976/ 41/ 16.00H	R= 35.9R _E	16- 1976/ 47/ 19.00H	R= 35.1R _E
7- 1976/ 42/ 5.00H	R= 39.4R _E	17- 1976/ 48/ 7.00H	R= 36.0R _E
8- 1976/ 42/ 18.00H	R= 33.4R _E	18- 1976/ 49/ 20.00H	R= 36.9R _E
9- 1976/ 43/ 7.00H	R= 32.4R _E	19- 1976/ 49/ 9.00H	R= 37.9R _E
10- 1976/ 43/ 22.00H	R= 31.6R _E	20- 1976/ 50/ 1.00H	R= 37.9R _E

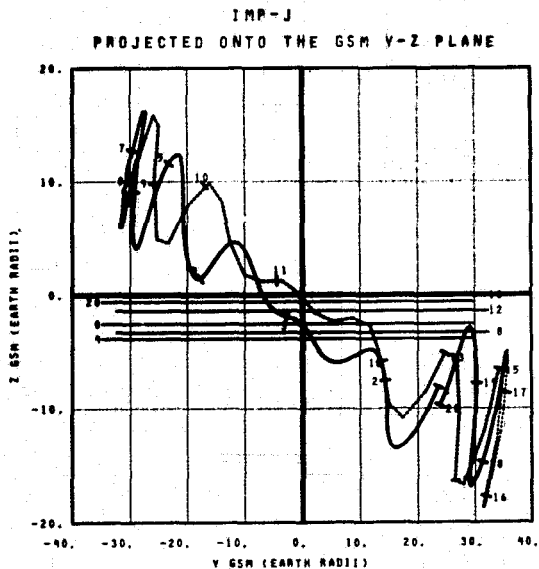
TIME AS YEAR/DAY/HOUR
 TIME INTERVAL OF PLOT 1976/ 37/19.00H TO 1976/ 50/ 1.00H



INTERPRETATION OF TIME CODE-NUMBERS

1- 1976/ 50/ 2.00H	LAT= -29.1	11- 1976/ 54/ 6.00H	LAT= 27.2
2- 1976/ 50/ 20.00H	LAT= -18.2	12- 1976/ 55/ 22.00H	LAT= 11.8
3- 1976/ 51/ 14.00H	LAT= -4.0	13- 1976/ 57/ 17.00H	LAT= -7.4
4- 1976/ 52/ 3.00H	LAT= 3.4	14- 1976/ 58/ 12.00H	LAT= -29.9
5- 1976/ 52/ 20.00H	LAT= 15.9	15- 1976/ 59/ 3.00H	LAT= -39.6
6- 1976/ 53/ 12.00H	LAT= 27.9	16- 1976/ 59/ 17.00H	LAT= -40.6
7- 1976/ 54/ 3.00H	LAT= 36.5	17- 1976/ 60/ 3.00H	LAT= -42.5
8- 1976/ 54/ 10.00H	LAT= 41.0	18- 1976/ 60/ 20.00H	LAT= -40.8
9- 1976/ 55/ 6.00H	LAT= 41.9	19- 1976/ 61/ 12.00H	LAT= -35.1
10- 1976/ 55/ 17.00H	LAT= 34.0	20- 1976/ 62/ 7.00H	LAT= -24.1

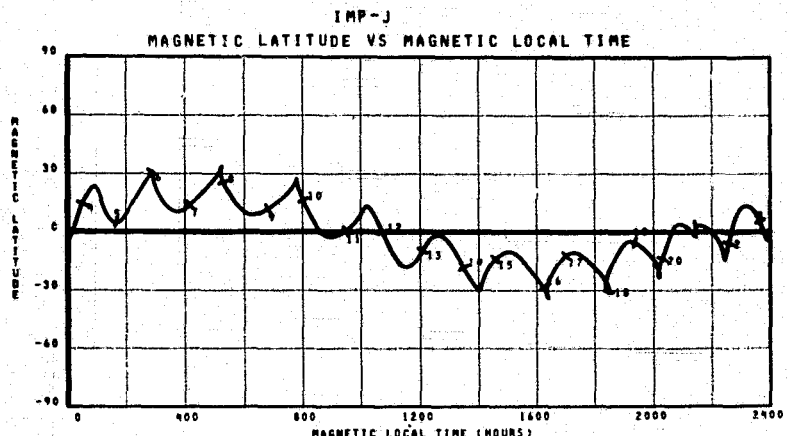
TIME AS YEAR/DAY/HOUR
LAT IS GSE LATITUDE IN DEGREES
TIME INTERVAL OF PLOT 1976/ 50/ 1.00H TO 1976/ 62/ 7.00H



INTERPRETATION OF TIME CODE-NUMBERS

1- 1976/ 50/ 2.00H	R= 30.0RE	11- 1976/ 57/ 4.00H	R= 31.3RE
2- 1976/ 50/ 20.00H	R= 30.0RE	12- 1976/ 58/ 3.00H	R= 32.0RE
3- 1976/ 51/ 14.00H	R= 37.3RE	13- 1976/ 58/ 21.00H	R= 34.0RE
4- 1976/ 52/ 3.00H	R= 35.9RE	14- 1976/ 59/ 9.00H	R= 35.0RE
5- 1976/ 52/ 20.00H	R= 34.7RE	15- 1976/ 59/ 21.00H	R= 35.0RE
6- 1976/ 53/ 12.00H	R= 32.6RE	16- 1976/ 60/ 8.00H	R= 36.9RE
7- 1976/ 54/ 3.00H	R= 32.6RE	17- 1976/ 60/ 19.00H	R= 37.1RE
8- 1976/ 54/ 10.00H	R= 31.0RE	18- 1976/ 61/ 7.00H	R= 37.5RE
9- 1976/ 55/ 6.00H	R= 31.2RE	19- 1976/ 61/ 18.00H	R= 37.0RE
10- 1976/ 55/ 17.00H	R= 30.9RE	20- 1976/ 62/ 7.00H	R= 37.9RE

TIME AS YEAR/DAY/HOUR
R IS GEOMETRIC DISTANCE IN EARTH RADII
TIME INTERVAL OF PLOT 1976/ 50/ 1.00H TO 1976/ 62/ 7.00H

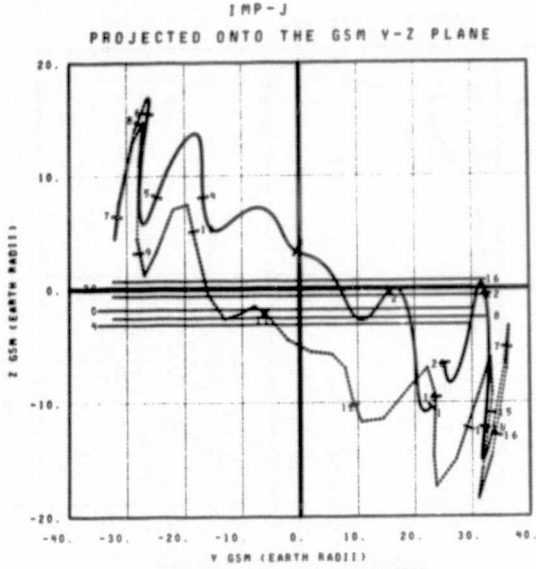
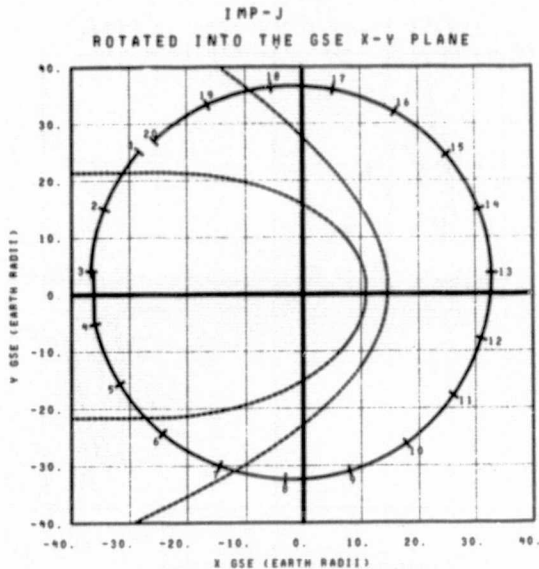


INTERPRETATION OF TIME CODE-NUMBERS

1- 1976/ 50/ 2.00H	R= 30.0RE	11- 1976/ 57/ 4.00H	R= 31.3RE
2- 1976/ 50/ 20.00H	R= 30.0RE	12- 1976/ 58/ 3.00H	R= 32.0RE
3- 1976/ 51/ 14.00H	R= 37.3RE	13- 1976/ 58/ 21.00H	R= 34.0RE
4- 1976/ 52/ 3.00H	R= 35.9RE	14- 1976/ 59/ 9.00H	R= 35.0RE
5- 1976/ 52/ 20.00H	R= 34.7RE	15- 1976/ 59/ 21.00H	R= 35.0RE
6- 1976/ 53/ 12.00H	R= 32.6RE	16- 1976/ 60/ 8.00H	R= 36.9RE
7- 1976/ 54/ 3.00H	R= 32.6RE	17- 1976/ 60/ 19.00H	R= 37.1RE
8- 1976/ 54/ 10.00H	R= 31.0RE	18- 1976/ 61/ 7.00H	R= 37.5RE
9- 1976/ 55/ 6.00H	R= 31.2RE	19- 1976/ 61/ 18.00H	R= 37.0RE
10- 1976/ 55/ 17.00H	R= 30.9RE	20- 1976/ 62/ 7.00H	R= 37.9RE

TIME AS YEAR/DAY/HOUR
TIME INTERVAL OF PLOT 1976/ 50/ 1.00H TO 1976/ 62/ 7.00H

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OF POOR QUALITY



INTERPRETATION OF TIME CODE-NUMBERS

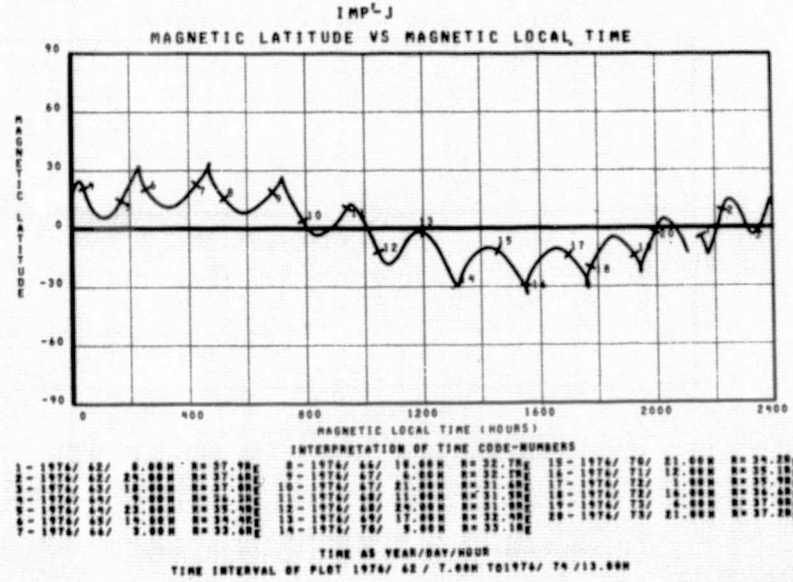
1 - 1974/ 62/ 8.00H	LAT= -24.3	11 - 1974/ 68/ 13.00H	LAT= 19.0
2 - 1974/ 63/ 2.00H	LAT= -12.4	12 - 1974/ 69/ 7.00H	LAT= 1.5
3 - 1974/ 63/ 26.00H	LAT= 0.5	13 - 1974/ 70/ 3.00H	LAT= -17.3
4 - 1974/ 64/ 6.00H	LAT= 8.0	14 - 1974/ 70/ 20.00H	LAT= -30.5
5 - 1974/ 64/ 23.00H	LAT= 20.7	15 - 1974/ 71/ 10.00H	LAT= -38.1
6 - 1974/ 65/ 15.00H	LAT= 31.8	16 - 1974/ 71/ 23.00H	LAT= -41.9
7 - 1974/ 66/ 4.00H	LAT= 39.4	17 - 1974/ 72/ 11.00H	LAT= -42.1
8 - 1974/ 66/ 21.00H	LAT= 42.3	18 - 1974/ 73/ 1.00H	LAT= -38.9
9 - 1974/ 67/ 9.00H	LAT= 39.5	19 - 1974/ 73/ 18.00H	LAT= -31.2
10 - 1974/ 67/ 21.00H	LAT= 32.4	20 - 1974/ 74/ 11.00H	LAT= -20.8

TIME AS YEAR/DAY/HOUR
LAT IS GSE LATITUDE IN DEGREES
TIME INTERVAL OF PLOT 1974/ 62/ 7.00H TO 1974/ 74/13.00H

INTERPRETATION OF TIME CODE-NUMBERS

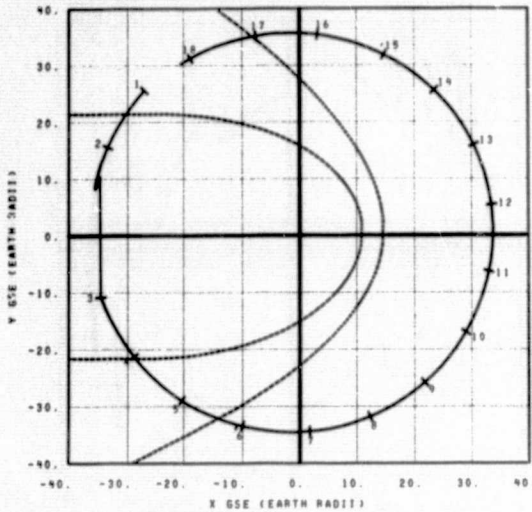
1 - 1974/ 62/ 8.00H	R= 37.9RE	11 - 1974/ 69/ 10.00H	R= 32.1RE
2 - 1974/ 63/ 1.00H	R= 37.6RE	12 - 1974/ 70/ 8.00H	R= 33.3RE
3 - 1974/ 64/ 2.00H	R= 36.4RE	13 - 1974/ 71/ 3.00H	R= 34.5RE
4 - 1974/ 65/ 4.00H	R= 35.1RE	14 - 1974/ 71/ 17.00H	R= 35.4RE
5 - 1974/ 65/ 19.00H	R= 34.1RE	15 - 1974/ 72/ 4.00H	R= 36.0RE
6 - 1974/ 66/ 8.00H	R= 33.2RE	16 - 1974/ 72/ 16.00H	R= 36.4RE
7 - 1974/ 66/ 20.00H	R= 32.5RE	17 - 1974/ 73/ 2.00H	R= 36.9RE
8 - 1974/ 67/ 4.00H	R= 32.0RE	18 - 1974/ 73/ 14.00H	R= 37.2RE
9 - 1974/ 67/ 20.00H	R= 31.4RE	19 - 1974/ 73/ 21.00H	R= 37.2RE
10 - 1974/ 68/ 14.00H	R= 31.4RE	20 - 1974/ 74/ 13.00H	R= 37.2RE

TIME AS YEAR/DAY/HOUR
R IS GEOCENTRIC DISTANCE IN EARTH RADII
TIME INTERVAL OF PLOT 1974/ 62/ 7.00H TO 1974/ 74/13.00H



IMP-J

ROTATED INTO THE GSE X-Y PLANE



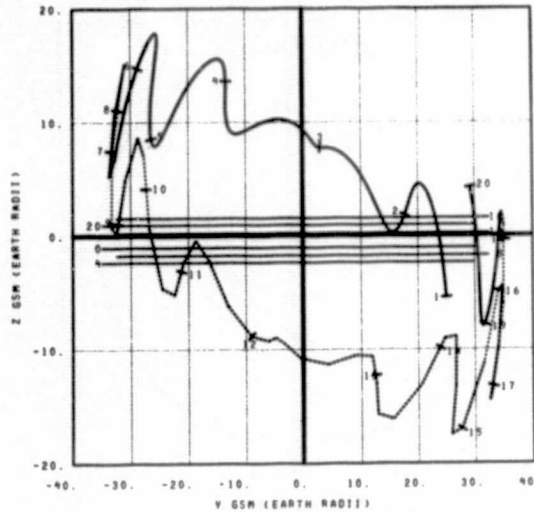
INTERPRETATION OF TIME CODE-NUMBERS

1- 1974/ 74/ 14.00H	LAT= -18.8	11- 1974/ 82/ 8.00H	LAT= -13.6
2- 1974/ 75/ 9.00H	LAT= -5.1	12- 1974/ 83/ 2.00H	LAT= -27.7
3- 1974/ 76/ 15.00H	LAT= 17.3	13- 1974/ 83/ 16.00H	LAT= -36.0
4- 1974/ 77/ 11.00H	LAT= 30.6	14- 1974/ 84/ 5.00H	LAT= -40.4
5- 1974/ 78/ 4.00H	LAT= 38.6	15- 1974/ 84/ 16.00H	LAT= -41.2
6- 1974/ 78/ 20.00H	LAT= 41.3	16- 1974/ 85/ 5.00H	LAT= -38.5
7- 1974/ 79/ 12.00H	LAT= 38.1	17- 1974/ 85/ 20.00H	LAT= -31.9
8- 1974/ 80/ 1.00H	LAT= 31.6	18- 1974/ 86/ 14.00H	LAT= -20.7
9- 1974/ 80/ 17.00H	LAT= 20.2		
10- 1974/ 81/ 12.00H	LAT= 4.0		

TIME AS YEAR/DAY/HOUR
LAT IS GSE LATITUDE IN DEGREES
TIME INTERVAL OF PLOT 1974/ 74/13.00H TO 1974/ 84/19.00H

IMP-J

PROJECTED ONTO THE GSM V-Z PLANE



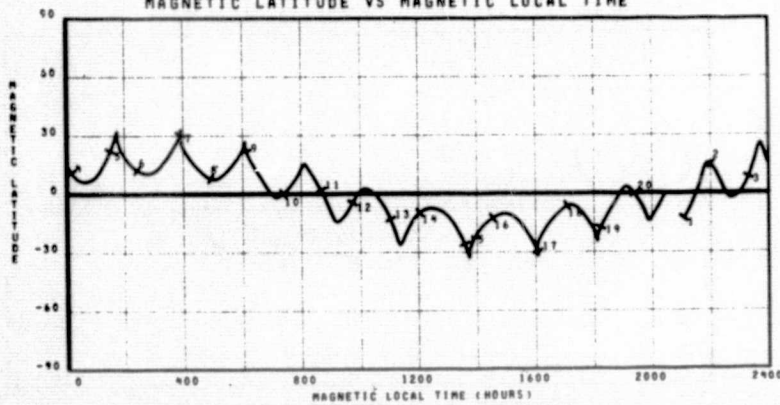
INTERPRETATION OF TIME CODE-NUMBERS

1- 1974/ 74/ 14.00H	R= 37.2RE	11- 1974/ 81/ 4.00H	R= 33.6RE
2- 1974/ 75/ 9.00H	R= 37.0RE	12- 1974/ 81/ 21.00H	R= 33.5RE
3- 1974/ 76/ 3.00H	R= 36.6RE	13- 1974/ 83/ 4.00H	R= 34.0RE
4- 1974/ 77/ 7.00H	R= 35.9RE	14- 1974/ 83/ 20.00H	R= 34.4RE
5- 1974/ 78/ 1.00H	R= 35.4RE	15- 1974/ 84/ 13.00H	R= 35.0RE
6- 1974/ 78/ 15.00H	R= 35.0RE	16- 1974/ 84/ 21.00H	R= 35.3RE
7- 1974/ 79/ 3.00H	R= 34.7RE	17- 1974/ 85/ 13.00H	R= 35.8RE
8- 1974/ 79/ 15.00H	R= 34.3RE	18- 1974/ 85/ 20.00H	R= 36.0RE
9- 1974/ 80/ 2.00H	R= 34.0RE	19- 1974/ 86/ 4.00H	R= 36.3RE
10- 1974/ 80/ 15.00H	R= 33.8RE	20- 1974/ 86/ 19.00H	R= 36.5RE

TIME AS YEAR/DAY/HOUR
R IS GEOCENTRIC DISTANCE IN EARTH RADII
TIME INTERVAL OF PLOT 1974/ 74/13.00H TO 1974/ 84/19.00H

IMP-J

MAGNETIC LATITUDE VS MAGNETIC LOCAL TIME

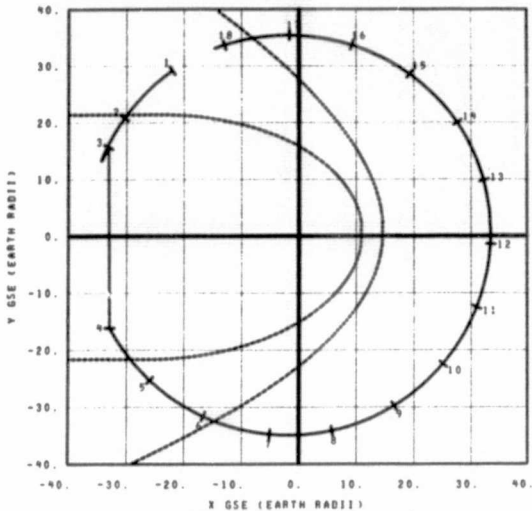


INTERPRETATION OF TIME CODE-NUMBERS

1- 1974/ 74/ 14.00H	R= 37.2RE	8- 1974/ 78/ 21.00H	R= 30.4RE	15- 1974/ 83/ 2.00H	R= 33.4RE
2- 1974/ 75/ 9.00H	R= 37.0RE	9- 1974/ 79/ 14.00H	R= 34.4RE	16- 1974/ 83/ 17.00H	R= 34.3RE
3- 1974/ 76/ 15.00H	R= 36.6RE	10- 1974/ 80/ 3.00H	R= 34.0RE	17- 1974/ 84/ 4.00H	R= 34.0RE
4- 1974/ 77/ 11.00H	R= 35.9RE	11- 1974/ 80/ 19.00H	R= 33.7RE	18- 1974/ 84/ 21.00H	R= 35.0RE
5- 1974/ 78/ 4.00H	R= 35.4RE	12- 1974/ 81/ 4.00H	R= 33.6RE	19- 1974/ 85/ 13.00H	R= 35.3RE
6- 1974/ 78/ 20.00H	R= 35.0RE	13- 1974/ 81/ 22.00H	R= 33.4RE	20- 1974/ 86/ 4.00H	R= 36.5RE
7- 1974/ 79/ 12.00H	R= 34.7RE	14- 1974/ 82/ 14.00H	R= 33.7RE		

TIME AS YEAR/DAY/HOUR
TIME INTERVAL OF PLOT 1974/ 74/13.00H TO 1974/ 84/19.00H

IMP-J
ROTATED INTO THE GSE X-Y PLANE

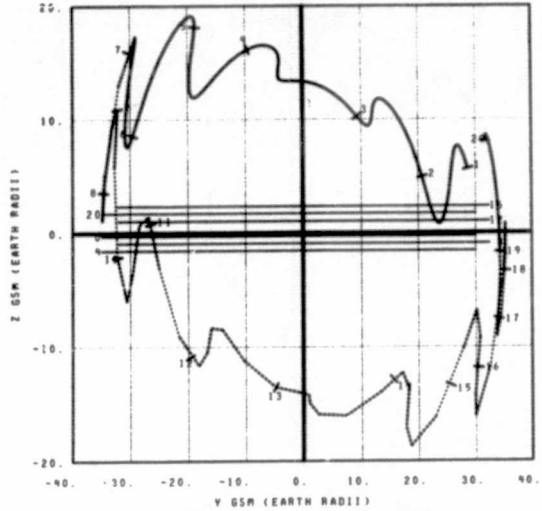


INTERPRETATION OF TIME CODE-NUMBERS

1 - 1974/ 86/ 20.00H	LAT= -14.5	11 - 1974/ 99/ 17.00H	LAT= -14.4
2 - 1974/ 07/ 16.00H	LAT= -2.0	12 - 1974/ 95/ 10.00H	LAT= -28.0
3 - 1974/ 89/ 7.00H	LAT= 25.4	13 - 1974/ 95/ 24.00H	LAT= -36.3
4 - 1974/ 89/ 8.00H	LAT= 26.0	14 - 1974/ 96/ 12.00H	LAT= -40.2
5 - 1974/ 90/ 8.00H	LAT= 37.3	15 - 1974/ 96/ 24.00H	LAT= -40.7
6 - 1974/ 90/ 24.00H	LAT= 41.1	16 - 1974/ 97/ 12.00H	LAT= -37.7
7 - 1974/ 91/ 18.00H	LAT= 38.2	17 - 1974/ 98/ 2.00H	LAT= -30.9
8 - 1974/ 92/ 9.00H	LAT= 30.9	18 - 1974/ 98/ 20.00H	LAT= -19.1
9 - 1974/ 93/ 2.00H	LAT= 18.9		
10 - 1974/ 93/ 21.00H	LAT= 2.9		

TIME AS YEAR/DAY/HOUR
LAT IS GSE LATITUDE IN DEGREES
TIME INTERVAL OF PLOT 1974/ 86/19.00H TO 1974/ 99/ 1.00H

IMP-J
PROJECTED ONTO THE GSM Y-Z PLANE

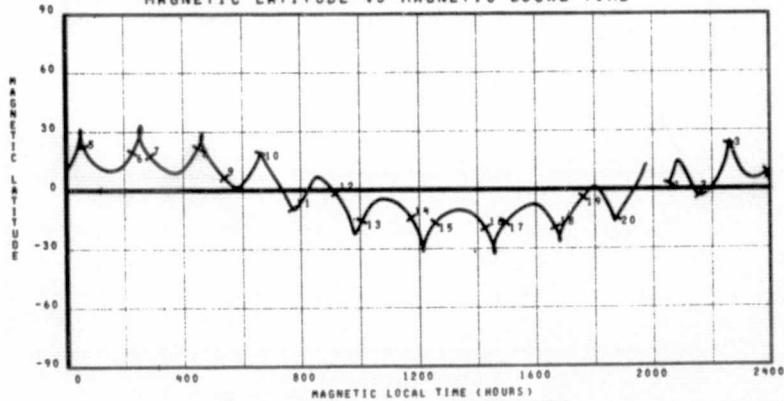


INTERPRETATION OF TIME CODE-NUMBERS

1 - 1974/ 86/ 20.00H	R= 36.6R _E	11 - 1974/ 93/ 12.00H	R= 33.8R _E
2 - 1974/ 87/ 15.00H	R= 36.8R _E	12 - 1974/ 93/ 21.00H	R= 33.4R _E
3 - 1974/ 88/ 12.00H	R= 36.4R _E	13 - 1974/ 94/ 15.00H	R= 33.4R _E
4 - 1974/ 89/ 15.00H	R= 36.5R _E	14 - 1974/ 95/ 21.00H	R= 33.7R _E
5 - 1974/ 90/ 8.00H	R= 36.2R _E	15 - 1974/ 96/ 17.00H	R= 34.2R _E
6 - 1974/ 90/ 21.00H	R= 35.8R _E	16 - 1974/ 97/ 5.00H	R= 34.4R _E
7 - 1974/ 91/ 13.00H	R= 35.3R _E	17 - 1974/ 97/ 17.00H	R= 35.1R _E
8 - 1974/ 91/ 20.00H	R= 35.0R _E	18 - 1974/ 98/ 4.00H	R= 35.5R _E
9 - 1974/ 92/ 11.00H	R= 34.5R _E	19 - 1974/ 98/ 14.00H	R= 34.0R _E
10 - 1974/ 92/ 19.00H	R= 34.3R _E	20 - 1974/ 99/ 1.00H	R= 34.3R _E

TIME AS YEAR/DAY/HOUR
R IS GEOCENTRIC DISTANCE IN EARTH RADII
TIME INTERVAL OF PLOT 1974/ 86/19.00H TO 1974/ 99/ 1.00H

IMP-J
MAGNETIC LATITUDE VS MAGNETIC LOCAL TIME

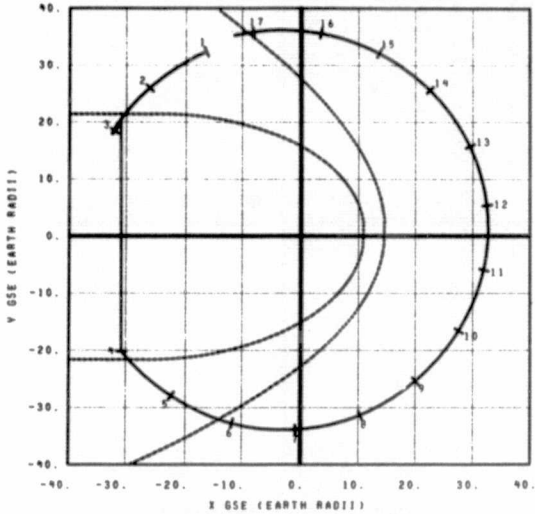


INTERPRETATION OF TIME CODE-NUMBERS

1 - 1974/ 86/ 20.00H	R= 36.6R _E	8 - 1974/ 91/ 4.00H	R= 35.6R _E	15 - 1974/ 95/ 13.00H	R= 33.5R _E
2 - 1974/ 87/ 15.00H	R= 36.8R _E	9 - 1974/ 91/ 14.00H	R= 35.1R _E	16 - 1974/ 95/ 24.00H	R= 33.7R _E
3 - 1974/ 88/ 7.00H	R= 36.4R _E	10 - 1974/ 91/ 10.00H	R= 34.9R _E	17 - 1974/ 96/ 18.00H	R= 34.2R _E
4 - 1974/ 88/ 8.00H	R= 36.5R _E	11 - 1974/ 92/ 24.00H	R= 34.3R _E	18 - 1974/ 97/ 5.00H	R= 34.4R _E
5 - 1974/ 89/ 15.00H	R= 36.5R _E	12 - 1974/ 92/ 18.00H	R= 33.4R _E	19 - 1974/ 97/ 17.00H	R= 35.1R _E
6 - 1974/ 90/ 8.00H	R= 36.2R _E	13 - 1974/ 93/ 12.00H	R= 33.8R _E	20 - 1974/ 98/ 4.00H	R= 35.5R _E
7 - 1974/ 90/ 21.00H	R= 35.8R _E	14 - 1974/ 93/ 8.00H	R= 33.4R _E		

TIME AS YEAR/DAY/HOUR
TIME INTERVAL OF PLOT 1974/ 86/19.00H TO 1974/ 99/ 1.00H

IMP-J
ROTATED INTO THE GSE X-Y PLANE

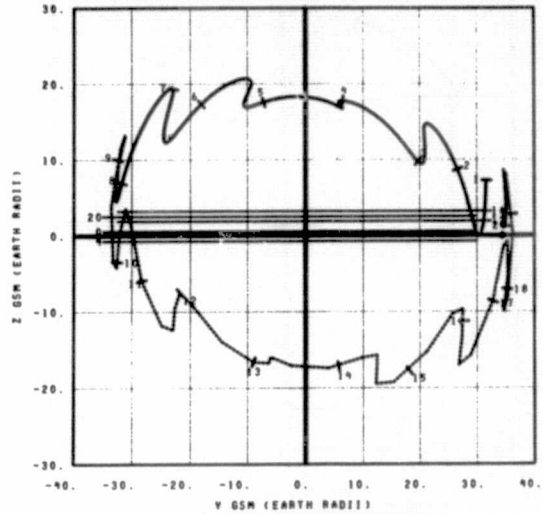


INTERPRETATION OF TIME CODE-NUMBERS

1 - 1974/ 99/ 2.00H	LAT= -15.0	11 - 1974/107/ 14.00H	LAT= -30.7
2 - 1974/ 99/ 23.00H	LAT= 0.5	12 - 1974/108/ 3.00H	LAT= -38.0
3 - 1974/101/ 17.00H	LAT= 28.9	13 - 1974/108/ 14.00H	LAT= -41.0
4 - 1974/102/ 1.00H	LAT= 33.2	14 - 1974/109/ 2.00H	LAT= -40.5
5 - 1974/103/ 2.00H	LAT= 41.2	15 - 1974/109/ 19.00H	LAT= -34.4
6 - 1974/103/ 22.00H	LAT= 38.9	16 - 1974/110/ 9.00H	LAT= -29.2
7 - 1974/105/ 15.00H	LAT= 30.4	17 - 1974/110/ 23.00H	LAT= -14.8
8 - 1974/105/ 8.00H	LAT= 17.5		
9 - 1974/106/ 3.00H	LAT= 8.1		
10 - 1974/106/ 22.00H	LAT= -17.7		

TIME AS YEAR/DAY/HOUR
LAT IS GSE LATITUDE IN DEGREES
TIME INTERVAL OF PLOT 1974/ 99/ 1.00H TO 1974/111/ 7.00H

IMP-J
PROJECTED ONTO THE GSM V-Z PLANE

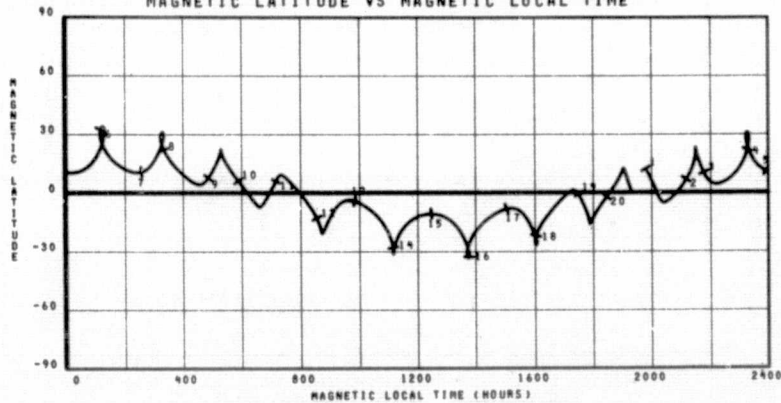


INTERPRETATION OF TIME CODE-NUMBERS

1 - 1974/ 99/ 2.00H	R= 34.3Rg	11 - 1974/105/ 17.00H	R= 32.4Rg
2 - 1974/ 99/ 17.00H	R= 36.7Rg	12 - 1974/106/ 9.00H	R= 32.2Rg
3 - 1974/100/ 11.00H	R= 37.0Rg	13 - 1974/106/ 21.00H	R= 32.1Rg
4 - 1974/100/ 23.00H	R= 37.1Rg	14 - 1974/107/ 18.00H	R= 32.5Rg
5 - 1974/101/ 20.00H	R= 34.8Rg	15 - 1974/108/ 15.00H	R= 33.5Rg
6 - 1974/102/ 17.00H	R= 34.2Rg	16 - 1974/109/ 3.00H	R= 34.2Rg
7 - 1974/103/ 9.00H	R= 35.5Rg	17 - 1974/109/ 17.00H	R= 35.1Rg
8 - 1974/103/ 20.00H	R= 34.9Rg	18 - 1974/110/ 6.00H	R= 35.9Rg
9 - 1974/104/ 14.00H	R= 33.9Rg	19 - 1974/110/ 18.00H	R= 34.9Rg
10 - 1974/105/ 2.00H	R= 33.3Rg	20 - 1974/111/ 7.00H	R= 37.1Rg

TIME AS YEAR/DAY/HOUR
R IS Heliocentric DISTANCE IN EARTH RADII
TIME INTERVAL OF PLOT 1974/ 99/ 1.00H TO 1974/111/ 7.00H

IMP-J
MAGNETIC LATITUDE VS MAGNETIC LOCAL TIME



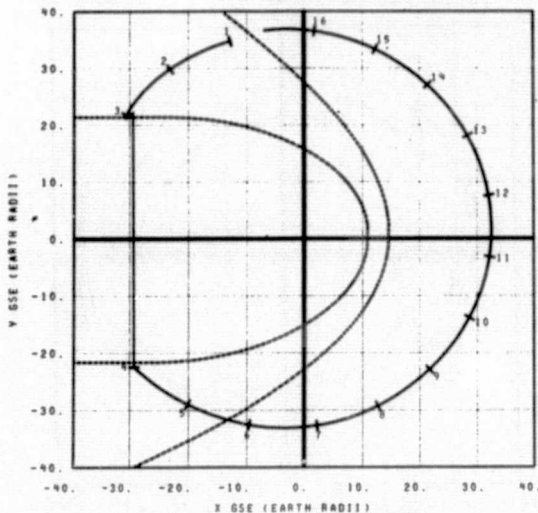
INTERPRETATION OF TIME CODE-NUMBERS

1 - 1974/ 99/ 2.00H	R= 34.3Rg	6 - 1974/103/ 13.00H	R= 35.3Rg	15 - 1974/107/ 17.00H	R= 32.9Rg
2 - 1974/ 99/ 19.00H	R= 35.0Rg	7 - 1974/104/ 17.00H	R= 35.1Rg	16 - 1974/108/ 9.00H	R= 33.7Rg
3 - 1974/100/ 11.00H	R= 37.0Rg	8 - 1974/105/ 17.00H	R= 33.1Rg	17 - 1974/108/ 19.00H	R= 34.0Rg
4 - 1974/100/ 23.00H	R= 37.1Rg	9 - 1974/106/ 8.00H	R= 33.9Rg	18 - 1974/109/ 12.00H	R= 34.0Rg
5 - 1974/101/ 20.00H	R= 34.8Rg	10 - 1974/107/ 21.00H	R= 32.5Rg	19 - 1974/110/ 18.00H	R= 34.9Rg
6 - 1974/102/ 17.00H	R= 34.2Rg	11 - 1974/108/ 15.00H	R= 33.5Rg	20 - 1974/110/ 17.00H	R= 34.9Rg
7 - 1974/103/ 9.00H	R= 35.5Rg	12 - 1974/109/ 3.00H	R= 34.2Rg		
8 - 1974/103/ 20.00H	R= 34.9Rg	13 - 1974/109/ 17.00H	R= 35.1Rg		
9 - 1974/104/ 14.00H	R= 33.9Rg	14 - 1974/110/ 6.00H	R= 35.9Rg		
10 - 1974/105/ 2.00H	R= 33.3Rg	15 - 1974/110/ 18.00H	R= 34.9Rg		

TIME AS YEAR/DAY/HOUR
TIME INTERVAL OF PLOT 1974/ 99/ 1.00H TO 1974/111/ 7.00H

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IMP-J
ROTATED INTO THE GSE X-Y PLANE

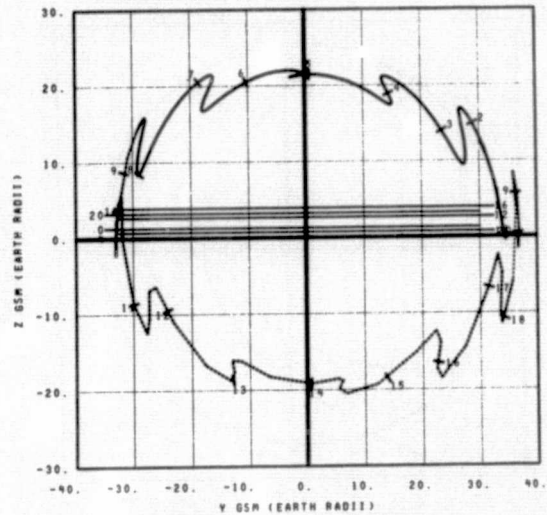


INTERPRETATION OF TIME CODE-NUMBERS

1 - 1974/111/ 8.00H	LAT= -10.5	11 - 1974/120/ 2.00H	LAT= -37.0
2 - 1974/112/ 6.00H	LAT= 5.0	12 - 1974/120/ 13.00H	LAT= -40.5
3 - 1974/113/ 14.00H	LAT= 27.0	13 - 1974/120/ 24.00H	LAT= -40.5
4 - 1974/114/ 14.00H	LAT= 37.5	14 - 1974/121/ 12.00H	LAT= -37.1
5 - 1974/115/ 18.00H	LAT= 40.5	15 - 1974/122/ 2.00H	LAT= -30.1
6 - 1974/114/ 14.00H	LAT= 32.8	16 - 1974/122/ 19.00H	LAT= -19.3
7 - 1974/117/ 9.00H	LAT= 19.0		
8 - 1974/118/ 3.00H	LAT= 2.4		
9 - 1974/118/ 21.00H	LAT= -15.1		
10 - 1974/119/ 13.00H	LAT= -19.0		

TIME AS YEAR/DAY/HOUR
LAT IS GSE LATITUDE IN DEGREES
TIME INTERVAL OF PLOT 1974/111/ 7.00H TO 1974/123/13.00H

IMP-J
PROJECTED ONTO THE GSM V-Z PLANE

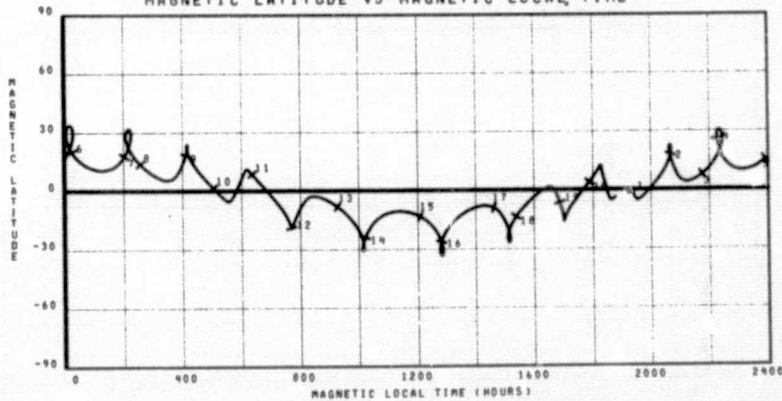


INTERPRETATION OF TIME CODE-NUMBERS

1 - 1974/111/ 8.00H	R= 37.1Rg	11 - 1974/117/ 19.00H	R= 32.2Rg
2 - 1974/111/ 20.00H	R= 37.5Rg	12 - 1974/118/ 19.00H	R= 31.4Rg
3 - 1974/112/ 15.00H	R= 37.8Rg	13 - 1974/118/ 24.00H	R= 31.5Rg
4 - 1974/113/ 9.00H	R= 37.8Rg	14 - 1974/119/ 19.00H	R= 32.2Rg
5 - 1974/113/ 20.00H	R= 37.5Rg	15 - 1974/120/ 16.00H	R= 33.1Rg
6 - 1974/114/ 17.00H	R= 36.7Rg	16 - 1974/121/ 6.00H	R= 34.1Rg
7 - 1974/115/ 13.00H	R= 35.4Rg	17 - 1974/121/ 19.00H	R= 35.0Rg
8 - 1974/115/ 23.00H	R= 34.9Rg	18 - 1974/122/ 12.00H	R= 34.2Rg
9 - 1974/114/ 14.00H	R= 33.8Rg	19 - 1974/122/ 20.00H	R= 34.4Rg
10 - 1974/117/ 6.00H	R= 32.9Rg	20 - 1974/123/ 13.00H	R= 37.4Rg

TIME AS YEAR/DAY/HOUR
R IS GEOCENTRIC DISTANCE IN EARTH RADII
TIME INTERVAL OF PLOT 1974/111/ 7.00H TO 1974/123/13.00H

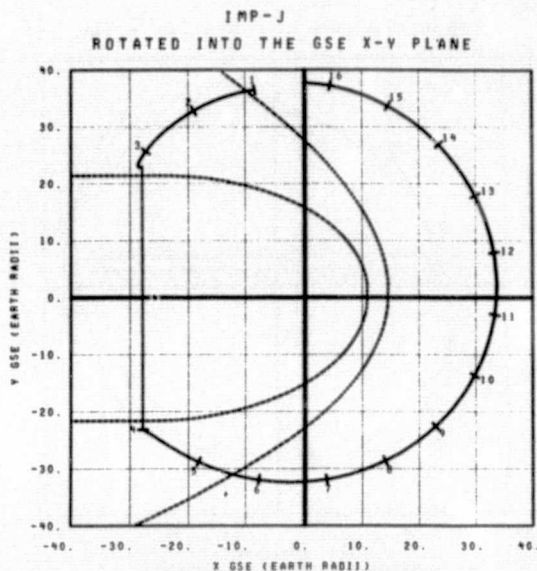
IMP-J
MAGNETIC LATITUDE VS MAGNETIC LOCAL TIME



INTERPRETATION OF TIME CODE-NUMBERS

1 - 1974/111/ 8.00H	R= 37.1Rg	8 - 1974/115/ 15.00H	R= 36.5Rg	15 - 1974/119/ 19.00H	R= 32.0Rg
2 - 1974/112/ 21.00H	R= 37.4Rg	9 - 1974/116/ 6.00H	R= 34.4Rg	16 - 1974/120/ 10.00H	R= 32.7Rg
3 - 1974/112/ 17.00H	R= 37.8Rg	10 - 1974/118/ 18.00H	R= 33.7Rg	17 - 1974/120/ 21.00H	R= 33.7Rg
4 - 1974/113/ 7.00H	R= 37.8Rg	11 - 1974/117/ 13.00H	R= 32.5Rg	18 - 1974/121/ 7.00H	R= 33.4Rg
5 - 1974/113/ 20.00H	R= 37.5Rg	12 - 1974/117/ 24.00H	R= 32.0Rg	19 - 1974/122/ 3.00H	R= 33.4Rg
6 - 1974/114/ 12.00H	R= 34.9Rg	13 - 1974/118/ 17.00H	R= 31.4Rg	20 - 1974/122/ 18.00H	R= 33.5Rg
7 - 1974/114/ 23.00H	R= 34.4Rg	14 - 1974/119/ 8.00H	R= 31.4Rg		

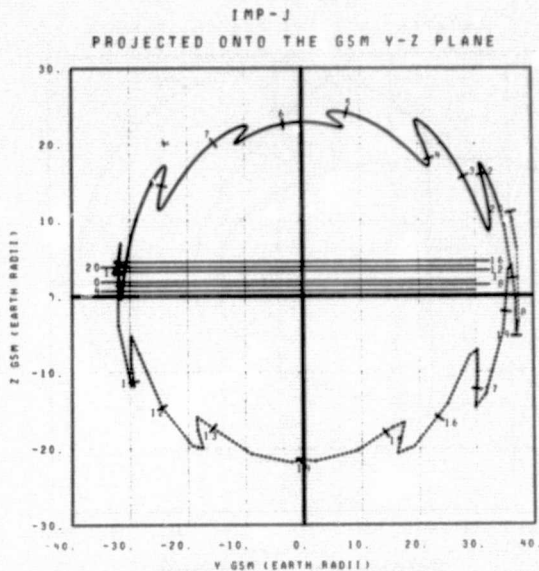
TIME AS YEAR/DAY/HOUR
TIME INTERVAL OF PLOT 1974/111/ 7.00H TO 1974/123/13.00H



INTERPRETATION OF TIME CODE-NUMBERS

1 - 1974/123/ 14.00H	LAT = -6.2	11 - 1974/131/ 10.00H	LAT = -39.4
2 - 1974/124/ 13.00H	LAT = 9.6	12 - 1974/132/ 21.00H	LAT = -46.8
3 - 1974/125/ 18.00H	LAT = 27.7	13 - 1974/133/ 8.00H	LAT = -38.9
4 - 1974/126/ 23.00H	LAT = 39.7	14 - 1974/134/ 21.00H	LAT = -33.8
5 - 1974/128/ 7.00H	LAT = 35.9	15 - 1974/135/ 13.00H	LAT = -24.8
6 - 1974/129/ 3.00H	LAT = 23.0	16 - 1974/135/ 8.00H	LAT = -12.4
7 - 1974/129/ 22.00H	LAT = 6.1		
8 - 1974/130/ 14.00H	LAT = -11.2		
9 - 1974/131/ 8.00H	LAT = -25.3		
10 - 1974/131/ 22.00H	LAT = -34.8		

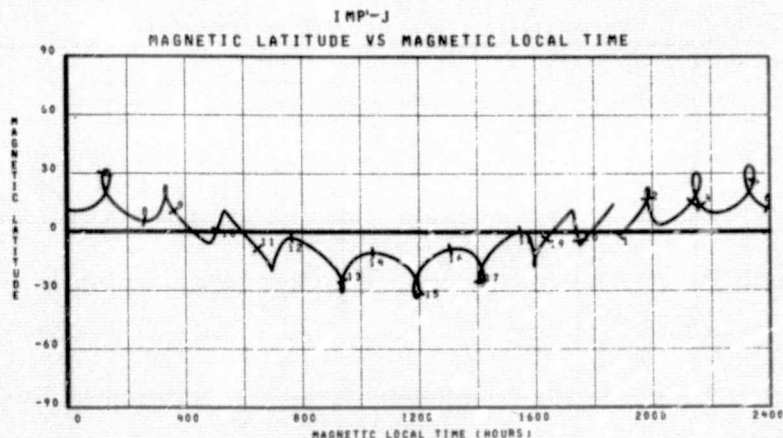
TIME AS YEAR/DAY/HOUR
LAT IS GSE LATITUDE IN DEGREES
TIME INTERVAL OF PLOT 1974/123/13.00H TO 1974/135/14.00H



INTERPRETATION OF TIME CODE-NUMBERS

1 - 1974/123/ 14.00H	R = 37.5RE	11 - 1974/130/ 2.00H	R = 32.0RE
2 - 1974/124/ 13.00H	R = 37.8RE	12 - 1974/130/ 17.00H	R = 31.9RE
3 - 1974/124/ 14.00H	R = 37.9RE	13 - 1974/131/ 13.00H	R = 32.3RE
4 - 1974/125/ 7.00H	R = 37.8RE	14 - 1974/132/ 3.00H	R = 33.0RE
5 - 1974/125/ 20.00H	R = 37.5RE	15 - 1974/132/ 20.00H	R = 34.1RE
6 - 1974/126/ 17.00H	R = 36.9RE	16 - 1974/133/ 14.00H	R = 35.4RE
7 - 1974/127/ 15.00H	R = 35.1RE	17 - 1974/134/ 6.00H	R = 36.3RE
8 - 1974/128/ 5.00H	R = 34.2RE	18 - 1974/134/ 18.00H	R = 36.9RE
9 - 1974/128/ 19.00H	R = 33.3RE	19 - 1974/135/ 9.00H	R = 37.5RE
10 - 1974/129/ 14.00H	R = 32.3RE	20 - 1974/135/ 19.00H	R = 37.8RE

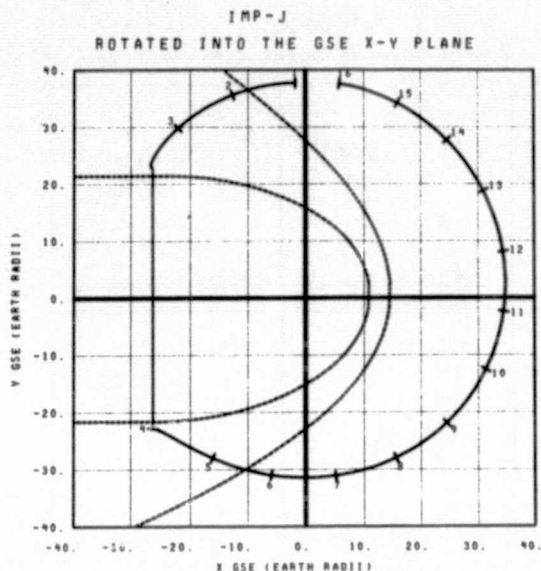
TIME AS YEAR/DAY/HOUR
R IS GEOCENTRIC DISTANCE IN EARTH RADII
TIME INTERVAL OF PLOT 1974/123/13.00H TO 1974/135/14.00H



INTERPRETATION OF TIME CODE-NUMBERS

1 - 1974/123/ 14.00H	R = 37.5RE	8 - 1974/127/ 17.00H	R = 34.9RE	15 - 1974/132/ 2.00H	R = 32.0RE
2 - 1974/124/ 13.00H	R = 37.8RE	9 - 1974/128/ 14.00H	R = 33.4RE	16 - 1974/132/ 17.00H	R = 31.9RE
3 - 1974/124/ 14.00H	R = 37.9RE	10 - 1974/129/ 3.00H	R = 32.9RE	17 - 1974/133/ 4.00H	R = 31.9RE
4 - 1974/124/ 11.00H	R = 37.7RE	11 - 1974/129/ 18.00H	R = 32.2RE	18 - 1974/134/ 20.00H	R = 35.7RE
5 - 1974/125/ 23.00H	R = 37.3RE	12 - 1974/130/ 12.00H	R = 31.9RE	19 - 1974/134/ 18.00H	R = 36.9RE
6 - 1974/125/ 15.00H	R = 36.4RE	13 - 1974/130/ 23.00H	R = 31.5RE	20 - 1974/135/ 19.00H	R = 37.8RE
7 - 1974/126/ 8.00H	R = 35.4RE	14 - 1974/131/ 15.00H	R = 37.4RE		

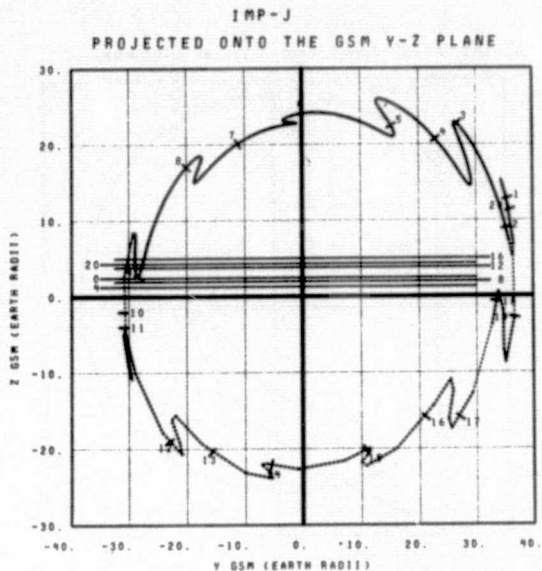
TIME AS YEAR/DAY/HOUR
TIME INTERVAL OF PLOT 1974/123/13.00H TO 1974/135/14.00H



INTERPRETATION OF TIME CODE-NUMBERS

1 - 1974/135/ 20.00H	LAT= -4.2	17 - 1974/144/ 17.00H	LAT= -40.8
2 - 1974/136/ 19.00H	LAT= 11.4	18 - 1974/145/ 17.00H	LAT= -39.8
3 - 1974/137/ 20.00H	LAT= 27.2	19 - 1974/146/ 17.00H	LAT= -35.7
4 - 1974/138/ 20.00H	LAT= 40.9	20 - 1974/147/ 17.00H	LAT= -28.3
5 - 1974/139/ 21.00H	LAT= 27.5	21 - 1974/148/ 17.00H	LAT= -17.3
6 - 1974/140/ 18.00H	LAT= 10.9	22 - 1974/149/ 23.00H	LAT= -3.4
7 - 1974/142/ 10.00H	LAT= -7.0		
8 - 1974/143/ 3.00H	LAT= -22.8		
9 - 1974/144/ 17.00H	LAT= -33.0		
10 - 1974/145/ 6.00H	LAT= -39.0		

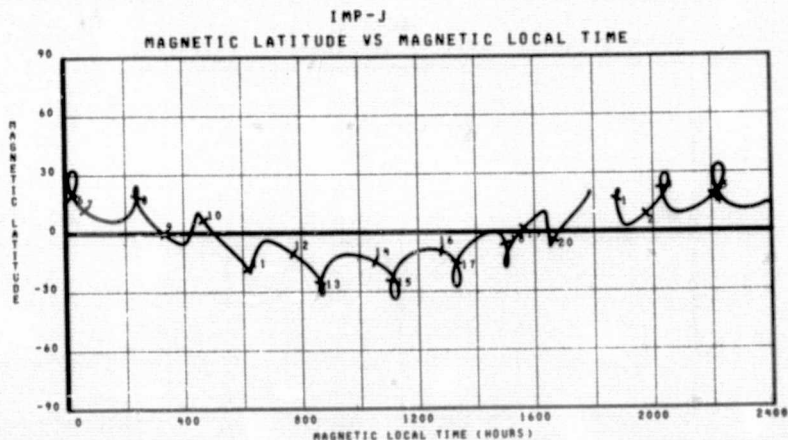
TIME AS YEAR/DAY/HOUR
LAT IS GSE LATITUDE IN DEGREES
TIME INTERVAL OF PLOT 1974/135/19.00H TO 1974/148/ 1.00H



INTERPRETATION OF TIME CODE-NUMBERS

1 - 1974/135/ 20.00H	R= 37.8Re	11 - 1974/142/ 9.00H	R= 31.4Re
2 - 1974/136/ 19.00H	R= 37.9Re	12 - 1974/143/ 20.00H	R= 31.7Re
3 - 1974/137/ 20.00H	R= 37.8Re	13 - 1974/144/ 12.00H	R= 34.2Re
4 - 1974/138/ 20.00H	R= 37.3Re	14 - 1974/145/ 22.00H	R= 34.9Re
5 - 1974/139/ 21.00H	R= 36.8Re	15 - 1974/146/ 18.00H	R= 36.3Re
6 - 1974/140/ 18.00H	R= 35.7Re	16 - 1974/147/ 13.00H	R= 37.3Re
7 - 1974/142/ 10.00H	R= 34.2Re	17 - 1974/148/ 21.00H	R= 37.6Re
8 - 1974/143/ 3.00H	R= 32.8Re	18 - 1974/149/ 19.00H	R= 38.0Re
9 - 1974/144/ 17.00H	R= 32.2Re	19 - 1974/147/ 17.00H	R= 38.0Re
10 - 1974/145/ 6.00H	R= 31.5Re	20 - 1974/148/ 1.00H	R= 38.0Re

TIME AS YEAR/DAY/HOUR
R IS GEOCENTRIC DISTANCE IN EARTH RADII
TIME INTERVAL OF PLOT 1974/135/19.00H TO 1974/148/ 1.00H



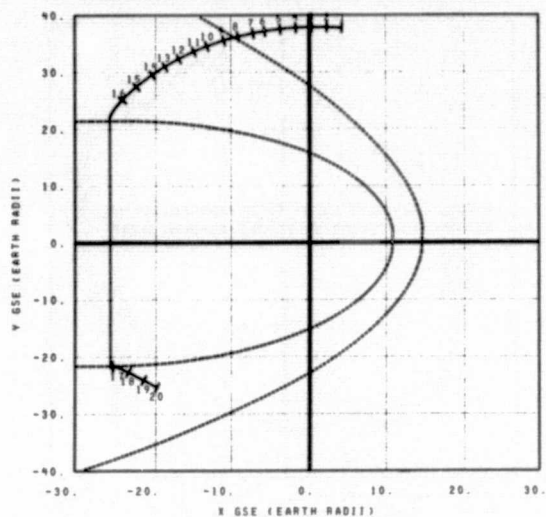
INTERPRETATION OF TIME CODE-NUMBERS

1 - 1974/135/ 20.00H	R= 37.8Re	8 - 1974/140/ 2.00H	R= 33.5Re	15 - 1974/144/ 9.00H	R= 34.0Re
2 - 1974/136/ 19.00H	R= 37.9Re	9 - 1974/141/ 17.00H	R= 33.5Re	16 - 1974/145/ 22.00H	R= 34.7Re
3 - 1974/137/ 20.00H	R= 37.8Re	10 - 1974/142/ 12.00H	R= 31.4Re	17 - 1974/146/ 18.00H	R= 36.3Re
4 - 1974/138/ 20.00H	R= 37.3Re	11 - 1974/143/ 3.00H	R= 32.8Re	18 - 1974/147/ 13.00H	R= 37.3Re
5 - 1974/139/ 21.00H	R= 36.8Re	12 - 1974/144/ 12.00H	R= 34.2Re	19 - 1974/148/ 21.00H	R= 37.6Re
6 - 1974/140/ 18.00H	R= 35.7Re	13 - 1974/145/ 22.00H	R= 34.9Re	20 - 1974/149/ 19.00H	R= 38.0Re
7 - 1974/142/ 10.00H	R= 34.2Re	14 - 1974/146/ 18.00H	R= 36.3Re		
		15 - 1974/147/ 13.00H	R= 37.3Re		
		16 - 1974/148/ 21.00H	R= 37.6Re		
		17 - 1974/149/ 19.00H	R= 38.0Re		
		18 - 1974/147/ 17.00H	R= 38.0Re		
		19 - 1974/148/ 1.00H	R= 38.0Re		

TIME AS YEAR/DAY/HOUR
TIME INTERVAL OF PLOT 1974/135/19.00H TO 1974/148/ 1.00H

IMP-J

ROTATED INTO THE GSE X-Y PLANE



INTERPRETATION OF TIME CODE-NUMBERS

1- 1976/148/ 2.00H	LAT= -1.4	11- 1976/149/ 18.00H	LAT= 25.1
2- 1976/148/ 6.00H	LAT= 1.4	12- 1976/149/ 23.00H	LAT= 28.1
3- 1976/148/ 10.00H	LAT= 4.1	13- 1976/150/ 4.00H	LAT= 30.9
4- 1976/148/ 14.00H	LAT= 6.8	14- 1976/150/ 9.00H	LAT= 33.4
5- 1976/148/ 18.00H	LAT= 9.5	15- 1976/150/ 14.00H	LAT= 36.4
6- 1976/148/ 22.00H	LAT= 12.2	16- 1976/151/ 0.00H	LAT= 39.2
7- 1976/149/ 1.00H	LAT= 14.2	17- 1976/151/ 5.00H	LAT= 39.0
8- 1976/149/ 5.00H	LAT= 16.8	18- 1976/152/ 11.00H	LAT= 33.4
9- 1976/149/ 9.00H	LAT= 19.5	19- 1976/152/ 16.00H	LAT= 29.0
10- 1976/149/ 14.00H	LAT= 22.4	20- 1976/152/ 23.00H	LAT= 25.2

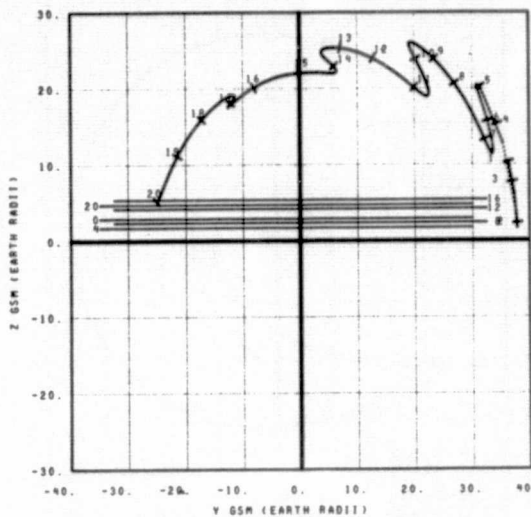
TIME AS YEAR/DAY/HOUR

LAT IS GSE LATITUDE IN DEGREES

TIME INTERVAL OF PLOT 1976/148/ 1.00H TO 1976/152/24.00H

IMP-J

PROJECTED ONTO THE GSM Y-Z PLANE



INTERPRETATION OF TIME CODE-NUMBERS

1- 1976/148/ 2.00H	R= 38.0R _E	11- 1976/150/ 13.00H	R= 35.7R _E
2- 1976/148/ 6.00H	R= 37.9R _E	12- 1976/150/ 17.00H	R= 35.4R _E
3- 1976/148/ 10.00H	R= 37.8R _E	13- 1976/150/ 20.00H	R= 35.2R _E
4- 1976/148/ 14.00H	R= 37.7R _E	14- 1976/151/ 6.00H	R= 34.9R _E
5- 1976/148/ 18.00H	R= 37.7R _E	15- 1976/151/ 10.00H	R= 34.6R _E
6- 1976/149/ 5.00H	R= 37.4R _E	16- 1976/151/ 14.00H	R= 33.4R _E
7- 1976/149/ 13.00H	R= 37.0R _E	17- 1976/152/ 4.00H	R= 33.1R _E
8- 1976/149/ 17.00H	R= 36.8R _E	18- 1976/152/ 10.00H	R= 32.9R _E
9- 1976/149/ 19.00H	R= 36.7R _E	19- 1976/152/ 16.00H	R= 32.4R _E
10- 1976/150/ 3.00H	R= 36.3R _E	20- 1976/152/ 24.00H	R= 32.1R _E

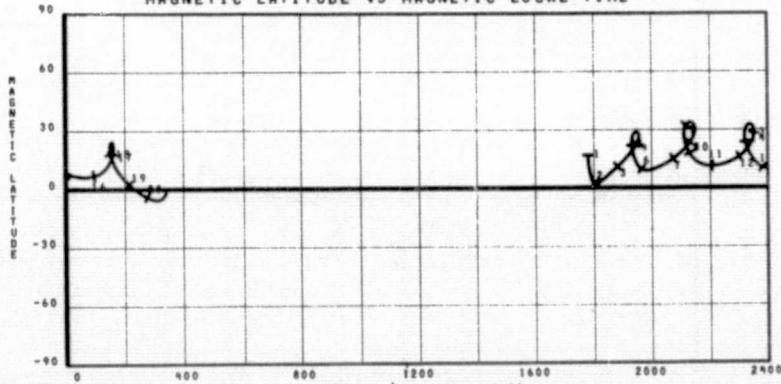
TIME AS YEAR/DAY/HOUR

R IS GEODESIC DISTANCE IN EARTH RADII

TIME INTERVAL OF PLOT 1976/148/ 1.00H TO 1976/152/24.00H

IMP-J

MAGNETIC LATITUDE VS MAGNETIC LOCAL TIME

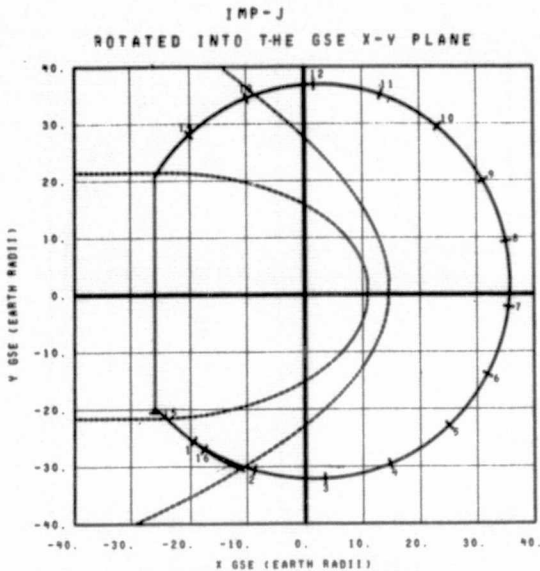


INTERPRETATION OF TIME CODE-NUMBERS

1- 1976/148/ 2.00H	R= 38.0R _E	8- 1976/149/ 20.00H	R= 36.7R _E	17- 1976/151/ 14.00H	R= 34.6R _E
2- 1976/148/ 6.00H	R= 37.9R _E	9- 1976/150/ 4.00H	R= 36.2R _E	18- 1976/151/ 18.00H	R= 33.4R _E
3- 1976/148/ 10.00H	R= 37.8R _E	10- 1976/150/ 8.00H	R= 35.7R _E	19- 1976/152/ 2.00H	R= 33.1R _E
4- 1976/148/ 14.00H	R= 37.7R _E	11- 1976/150/ 12.00H	R= 35.2R _E	20- 1976/152/ 6.00H	R= 32.9R _E
5- 1976/148/ 18.00H	R= 37.7R _E	12- 1976/150/ 16.00H	R= 34.9R _E	1- 1976/152/ 10.00H	R= 32.7R _E
6- 1976/149/ 5.00H	R= 37.4R _E	13- 1976/150/ 20.00H	R= 34.6R _E	2- 1976/152/ 14.00H	R= 32.4R _E
7- 1976/149/ 9.00H	R= 37.0R _E	14- 1976/151/ 0.00H	R= 34.3R _E	3- 1976/152/ 18.00H	R= 32.1R _E

TIME AS YEAR/DAY/HOUR

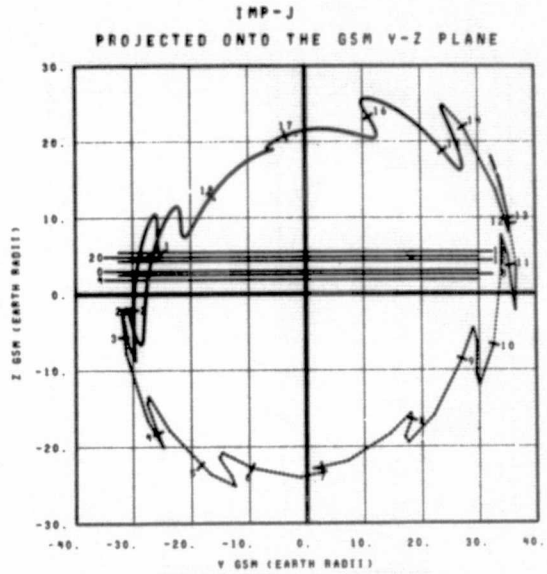
TIME INTERVAL OF PLOT 1976/148/ 1.00H TO 1976/152/24.00H



INTERPRETATION OF TIME CODE-NUMBERS

1 - 1974/153/ 0.00H LAT= 24.4	11 - 1974/160/ 1.00H LAT= -3.3
2 - 1974/153/ 22.00H LAT= 4.4	12 - 1974/160/ 24.00H LAT= 12.8
3 - 1974/154/ 18.00H LAT= -14.6	13 - 1974/161/ 22.00H LAT= 27.3
4 - 1974/154/ 11.00H LAT= -20.4	14 - 1974/162/ 21.00H LAT= 38.4
5 - 1974/154/ 2.00H LAT= -26.9	15 - 1974/162/ 23.00H LAT= 38.4
6 - 1974/154/ 19.00H LAT= -40.3	16 - 1974/163/ 16.00H LAT= 8.7
7 - 1974/157/ 3.00H LAT= -40.3	
8 - 1974/157/ 14.00H LAT= -37.0	
9 - 1974/158/ 7.00H LAT= -30.1	
10 - 1974/159/ 3.00H LAT= -18.1	

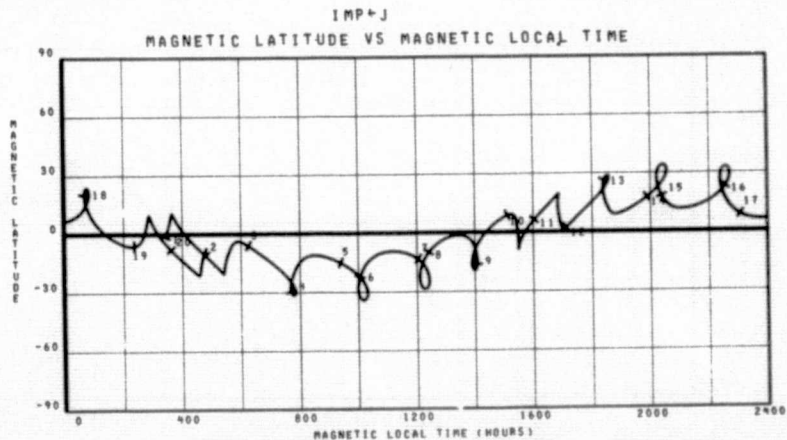
*TIME AS YEAR/DAY/HOUR
LAT IS GSE LATITUDE IN DEGREES
TIME INTERVAL OF PLOT 1974/153/ 0.00H TO 1974/164/ 4.00H



INTERPRETATION OF TIME CODE-NUMBERS

1 - 1974/153/ 0.00H R= 32.1Rg	11 - 1974/160/ 4.00H R= 37.5Rg
2 - 1974/153/ 18.00H R= 31.8Rg	12 - 1974/160/ 17.00H R= 37.2Rg
3 - 1974/154/ 14.00H R= 32.1Rg	13 - 1974/161/ 7.00H R= 36.7Rg
4 - 1974/154/ 3.00H R= 32.4Rg	14 - 1974/161/ 19.00H R= 34.1Rg
5 - 1974/155/ 18.00H R= 33.4Rg	15 - 1974/162/ 14.00H R= 35.0Rg
6 - 1974/156/ 15.00H R= 34.8Rg	16 - 1974/163/ 4.00H R= 34.1Rg
7 - 1974/157/ 12.00H R= 34.1Rg	17 - 1974/163/ 20.00H R= 33.2Rg
8 - 1974/158/ 3.00H R= 34.8Rg	18 - 1974/164/ 18.00H R= 32.4Rg
9 - 1974/158/ 19.00H R= 37.3Rg	19 - 1974/165/ 14.00H R= 32.2Rg
10 - 1974/159/ 15.00H R= 37.4Rg	20 - 1974/166/ 6.00H R= 32.5Rg

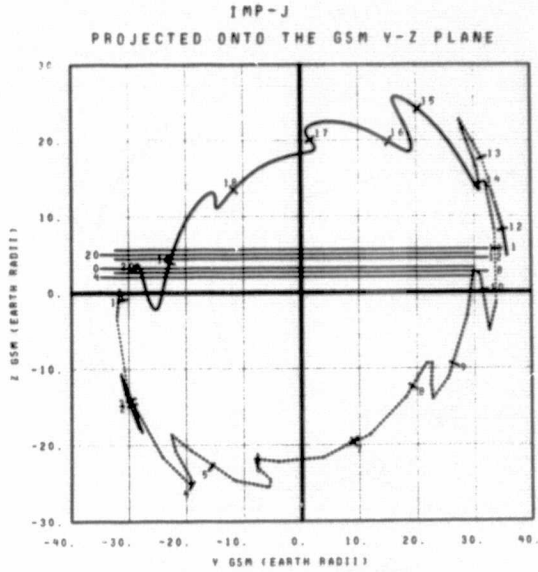
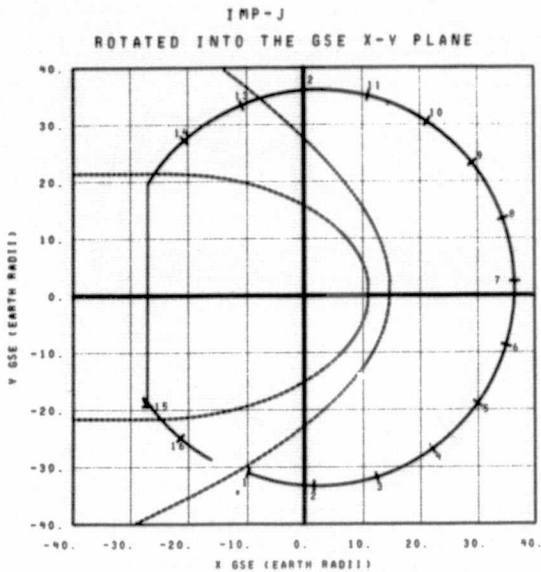
*TIME AS YEAR/DAY/HOUR
R IS GEOCENTRIC DISTANCE IN EARTH RADII
TIME INTERVAL OF PLOT 1974/153/ 0.00H TO 1974/166/ 4.00H



INTERPRETATION OF TIME CODE-NUMBERS

1 - 1974/153/ 0.00H R= 32.1Rg	8 - 1974/157/ 13.00H R= 34.1Rg	15 - 1974/162/ 9.00H R= 35.3Rg
2 - 1974/153/ 17.00H R= 31.8Rg	9 - 1974/158/ 3.00H R= 34.1Rg	16 - 1974/163/ 14.00H R= 33.9Rg
3 - 1974/154/ 13.00H R= 32.1Rg	10 - 1974/158/ 19.00H R= 37.3Rg	17 - 1974/163/ 14.00H R= 33.7Rg
4 - 1974/154/ 3.00H R= 32.4Rg	11 - 1974/159/ 19.00H R= 37.4Rg	18 - 1974/164/ 2.00H R= 32.7Rg
5 - 1974/155/ 17.00H R= 33.4Rg	12 - 1974/160/ 11.00H R= 37.4Rg	19 - 1974/164/ 2.00H R= 32.7Rg
6 - 1974/156/ 4.00H R= 34.8Rg	13 - 1974/161/ 2.00H R= 34.9Rg	20 - 1974/165/ 15.00H R= 32.2Rg
7 - 1974/156/ 20.00H R= 35.1Rg	14 - 1974/161/ 17.00H R= 34.2Rg	

*TIME AS YEAR/DAY/HOUR
TIME INTERVAL OF PLOT 1974/153/ 0.00H TO 1974/166/ 4.00H



INTERPRETATION OF TIME CODE-NUMBERS

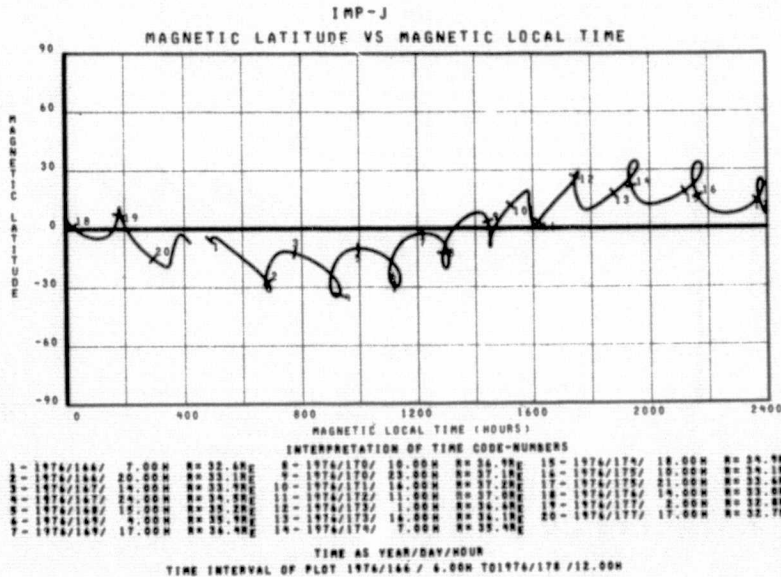
1 - 1974/166/ 7.00H LAT= -5.3	11 - 1974/172/ 22.00H LAT= 31.2
2 - 1974/167/ 2.00H LAT= -21.8	12 - 1974/173/ 17.00H LAT= 24.3
3 - 1974/167/ 17.00H LAT= -32.2	13 - 1974/174/ 12.00H LAT= 35.2
4 - 1974/168/ 6.00H LAT= -38.3	14 - 1974/175/ 8.00H LAT= 40.8
5 - 1974/168/ 18.00H LAT= -40.8	15 - 1974/176/ 7.00H LAT= 35.4
6 - 1974/169/ 6.00H LAT= -40.3	16 - 1974/177/ 23.00H LAT= 4.4
7 - 1974/169/ 19.00H LAT= -36.6	
8 - 1974/170/ 10.00H LAT= -29.3	
9 - 1974/171/ 9.00H LAT= -18.3	
10 - 1974/171/ 24.00H LAT= -9.6	

TIME AS YEAR/DAY/HOUR
LAT IS GSE LATITUDE IN DEGREES
TIME INTERVAL OF PLOT 1974/166/ 6.00H TO 1974/178/12.00H

INTERPRETATION OF TIME CODE-NUMBERS

1 - 1974/166/ 7.00H R= 32.6Rg	11 - 1974/172/ 17.00H R= 36.8Rg
2 - 1974/166/ 19.00H R= 33.0Rg	12 - 1974/173/ 6.00H R= 36.4Rg
3 - 1974/167/ 14.00H R= 33.9Rg	13 - 1974/173/ 18.00H R= 36.0Rg
4 - 1974/167/ 22.00H R= 34.4Rg	14 - 1974/174/ 8.00H R= 35.3Rg
5 - 1974/168/ 16.00H R= 35.3Rg	15 - 1974/174/ 19.00H R= 34.8Rg
6 - 1974/169/ 11.00H R= 36.2Rg	16 - 1974/175/ 14.00H R= 33.9Rg
7 - 1974/169/ 22.00H R= 36.4Rg	17 - 1974/176/ 9.00H R= 33.3Rg
8 - 1974/170/ 19.00H R= 37.1Rg	18 - 1974/176/ 20.00H R= 32.9Rg
9 - 1974/171/ 15.00H R= 37.2Rg	19 - 1974/177/ 18.00H R= 32.7Rg
10 - 1974/172/ 9.00H R= 37.1Rg	20 - 1974/178/ 12.00H R= 33.0Rg

TIME AS YEAR/DAY/HOUR
R IS GEOCENTRIC DISTANCE IN EARTH RADII
TIME INTERVAL OF PLOT 1974/166/ 6.00H TO 1974/178/12.00H

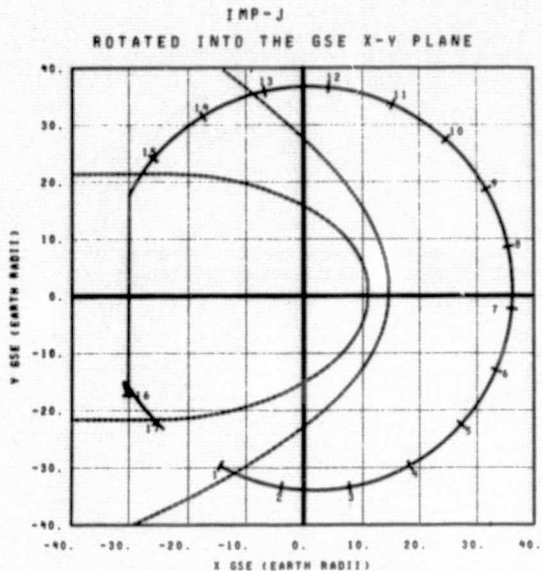


INTERPRETATION OF TIME CODE-NUMBERS

1 - 1974/166/ 7.00H R= 32.6Rg	8 - 1974/170/ 10.00H R= 36.9Rg	15 - 1974/174/ 18.00H R= 34.9Rg
2 - 1974/166/ 20.00H R= 33.1Rg	9 - 1974/170/ 23.00H R= 37.1Rg	16 - 1974/175/ 10.00H R= 34.1Rg
3 - 1974/167/ 14.00H R= 33.9Rg	10 - 1974/171/ 14.00H R= 35.7Rg	17 - 1974/176/ 21.00H R= 33.3Rg
4 - 1974/167/ 24.00H R= 34.9Rg	11 - 1974/172/ 11.00H R= 36.4Rg	18 - 1974/176/ 14.00H R= 33.0Rg
5 - 1974/168/ 15.00H R= 35.2Rg	12 - 1974/173/ 1.00H R= 36.4Rg	19 - 1974/177/ 2.00H R= 32.8Rg
6 - 1974/169/ 9.00H R= 35.9Rg	13 - 1974/173/ 14.00H R= 36.4Rg	20 - 1974/177/ 17.00H R= 32.7Rg
7 - 1974/169/ 17.00H R= 36.4Rg	14 - 1974/174/ 7.00H R= 35.4Rg	

TIME AS YEAR/DAY/HOUR
TIME INTERVAL OF PLOT 1974/166/ 6.00H TO 1974/178/12.00H

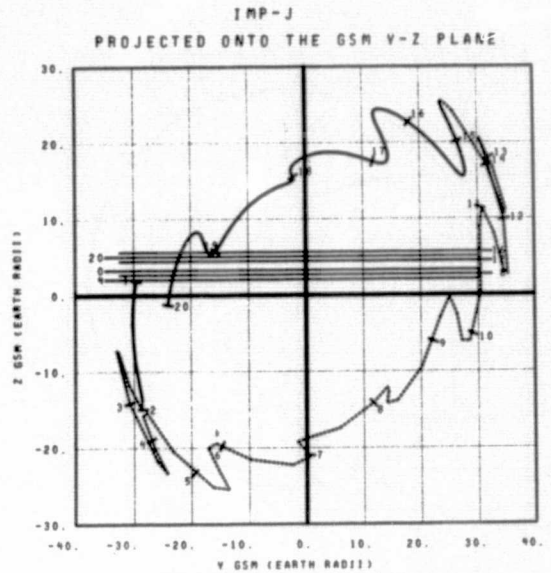
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OF POOR QUALITY



INTERPRETATION OF TIME CODE-NUMBERS

1- 1974/178/ 13.00H	LAT= -8.4	11- 1974/185/ 9.00H	LAT= 15.1
2- 1974/179/ 7.00H	LAT= -23.4	12- 1974/185/ 23.00H	LAT= 27.3
3- 1974/179/ 23.00H	LAT= -33.9	13- 1974/186/ 16.00H	LAT= 35.8
4- 1974/180/ 12.00H	LAT= -39.3	14- 1974/187/ 11.00H	LAT= 40.3
5- 1974/180/ 24.00H	LAT= -41.1	15- 1974/188/ 8.00H	LAT= 37.9
6- 1974/181/ 12.00H	LAT= -39.7	16- 1974/188/ 23.00H	LAT= 29.9
7- 1974/182/ 1.00H	LAT= -35.2	17- 1974/190/ 13.00H	LAT= 0.4
8- 1974/182/ 16.00H	LAT= -27.2		
9- 1974/183/ 10.00H	LAT= -15.3		
10- 1974/184/ 7.00H	LAT= -0.1		

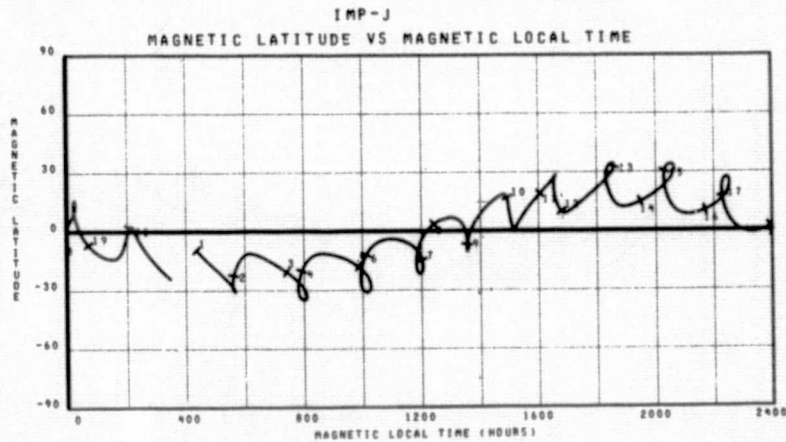
TIME AS YEAR/DAY/HOUR
LAT IS GSE LATITUDE IN DEGREES
TIME INTERVAL OF PLOT 1974/178/12.00H TO 1974/190/18.00H



INTERPRETATION OF TIME CODE-NUMBERS

1- 1974/178/ 13.00H	R= 33.0RE	11- 1974/184/ 23.00H	R= 34.9RE
2- 1974/178/ 23.00H	R= 33.3RE	12- 1974/185/ 16.00H	R= 34.9RE
3- 1974/179/ 16.00H	R= 34.0RE	13- 1974/186/ 3.00H	R= 34.8RE
4- 1974/180/ 5.00H	R= 34.5RE	14- 1974/186/ 14.00H	R= 34.5RE
5- 1974/180/ 18.00H	R= 35.1RE	15- 1974/187/ 5.00H	R= 34.2RE
6- 1974/181/ 13.00H	R= 35.8RE	16- 1974/187/ 18.00H	R= 35.8RE
7- 1974/182/ 1.00H	R= 36.1RE	17- 1974/188/ 13.00H	R= 35.1RE
8- 1974/182/ 20.00H	R= 34.5RE	18- 1974/189/ 5.00H	R= 34.5RE
9- 1974/183/ 1.00H	R= 34.8RE	19- 1974/189/ 23.00H	R= 33.9RE
10- 1974/184/ 13.00H	R= 34.9RE	20- 1974/190/ 18.00H	R= 33.4RE

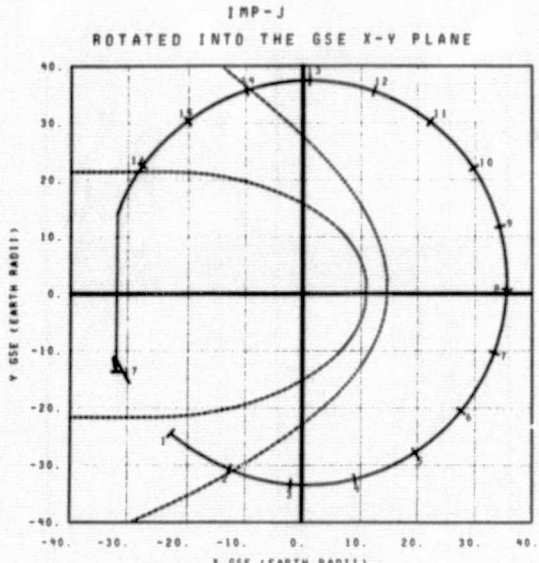
TIME AS YEAR/DAY/HOUR
R IS GEOCENTRIC DISTANCE IN EARTH RADII
TIME INTERVAL OF PLOT 1974/178/12.00H TO 1974/190/18.00H



INTERPRETATION OF TIME CODE-NUMBERS

1- 1974/178/ 13.00H	R= 33.0RE	8- 1974/182/ 15.00H	R= 34.5RE	15- 1974/187/ 9.00H	R= 34.2RE
2- 1974/178/ 23.00H	R= 33.3RE	9- 1974/183/ 8.00H	R= 34.7RE	16- 1974/188/ 17.00H	R= 35.8RE
3- 1974/179/ 16.00H	R= 34.0RE	10- 1974/183/ 23.00H	R= 34.8RE	17- 1974/188/ 3.00H	R= 35.3RE
4- 1974/180/ 5.00H	R= 34.5RE	11- 1974/184/ 16.00H	R= 34.9RE	18- 1974/188/ 14.00H	R= 34.5RE
5- 1974/180/ 18.00H	R= 35.1RE	12- 1974/185/ 3.00H	R= 34.8RE	19- 1974/189/ 23.00H	R= 33.9RE
6- 1974/181/ 13.00H	R= 35.8RE	13- 1974/185/ 14.00H	R= 34.8RE	20- 1974/190/ 18.00H	R= 33.7RE
7- 1974/181/ 23.00H	R= 34.1RE	14- 1974/186/ 19.00H	R= 34.4RE		

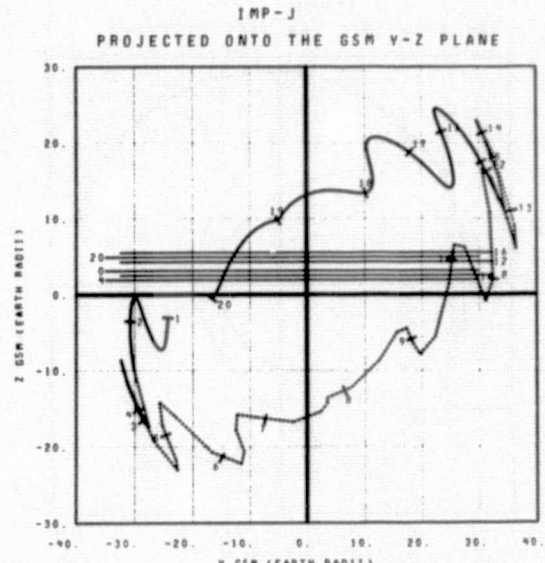
TIME AS YEAR/DAY/HOUR
TIME INTERVAL OF PLOT 1974/178/13.00H TO 1974/190/18.00H



INTERPRETATION OF TIME CODE-NUMBERS

1 - 1976/190/ 19.00H	LAT= -4.9	11 - 1976/197/ 9.00H	LAT= 15.6
2 - 1976/191/ 13.00H	LAT= -20.2	12 - 1976/198/ 4.00H	LAT= 27.3
3 - 1976/192/ 9.00H	LAT= -31.6	13 - 1976/198/ 20.00H	LAT= 35.1
4 - 1976/192/ 18.00H	LAT= -38.0	14 - 1976/199/ 13.00H	LAT= 39.9
5 - 1976/193/ 6.00H	LAT= -40.4	15 - 1976/200/ 7.00H	LAT= 39.7
6 - 1976/193/ 17.00H	LAT= -39.5	16 - 1976/200/ 24.00H	LAT= 33.9
7 - 1976/194/ 6.00H	LAT= -34.9	17 - 1976/201/ 18.00H	LAT= 23.1
8 - 1976/194/ 21.00H	LAT= -24.5		
9 - 1976/195/ 15.00H	LAT= -14.2		
10 - 1976/196/ 12.00H	LAT= 1.0		

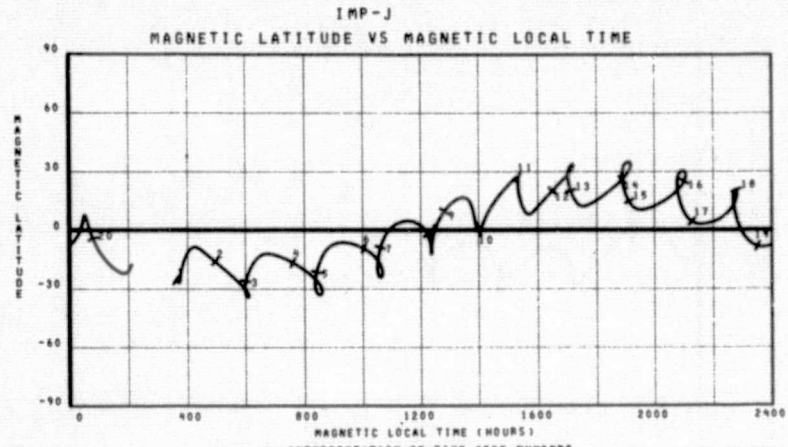
TIME AS YEAR/DAY/HOUR
LAT IS GSE LATITUDE IN DEGREES
TIME INTERVAL OF PLOT 1976/190/18.00H TO 1976/202/24.00H



INTERPRETATION OF TIME CODE-NUMBERS

1 - 1976/190/ 19.00H	R= 33.4R _E	11 - 1976/197/ 14.00H	R= 37.5R _E
2 - 1976/191/ 14.00H	R= 33.3R _E	12 - 1976/198/ 1.00H	R= 37.6R _E
3 - 1976/192/ 2.00H	R= 33.3R _E	13 - 1976/198/ 15.00H	R= 37.5R _E
4 - 1976/192/ 18.00H	R= 33.4R _E	14 - 1976/199/ 2.00H	R= 37.3R _E
5 - 1976/193/ 5.00H	R= 33.9R _E	15 - 1976/199/ 16.00H	R= 36.9R _E
6 - 1976/193/ 19.00H	R= 34.4R _E	16 - 1976/200/ 3.00H	R= 36.5R _E
7 - 1976/194/ 15.00H	R= 35.3R _E	17 - 1976/200/ 17.00H	R= 35.9R _E
8 - 1976/195/ 13.00H	R= 36.2R _E	18 - 1976/201/ 11.00H	R= 35.0R _E
9 - 1976/196/ 9.00H	R= 36.8R _E	19 - 1976/202/ 6.00H	R= 34.1R _E
10 - 1976/196/ 20.00H	R= 37.2R _E	20 - 1976/202/ 23.00H	R= 33.4R _E

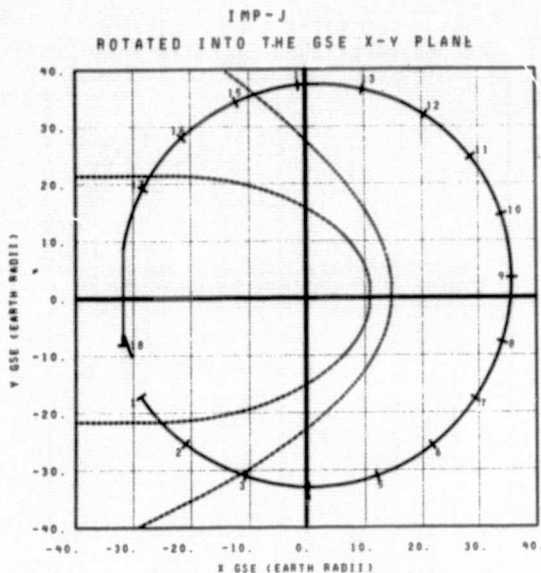
TIME AS YEAR/DAY/HOUR
R IS GEOCENTRIC DISTANCE IN EARTH RADII
TIME INTERVAL OF PLOT 1976/190/18.00H TO 1976/202/24.00H



INTERPRETATION OF TIME CODE-NUMBERS

1 - 1976/190/ 19.00H	R= 33.4R _E	8 - 1976/199/ 14.00H	R= 34.2R _E	15 - 1976/199/ 9.00H	R= 37.2R _E
2 - 1976/191/ 14.00H	R= 33.3R _E	9 - 1976/199/ 21.00H	R= 34.2R _E	16 - 1976/199/ 21.00H	R= 34.1R _E
3 - 1976/192/ 9.00H	R= 33.3R _E	10 - 1976/199/ 7.00H	R= 35.9R _E	17 - 1976/200/ 13.00H	R= 34.1R _E
4 - 1976/192/ 18.00H	R= 33.4R _E	11 - 1976/199/ 21.00H	R= 37.4R _E	18 - 1976/201/ 2.00H	R= 34.1R _E
5 - 1976/193/ 6.00H	R= 33.9R _E	12 - 1976/199/ 15.00H	R= 37.4R _E	19 - 1976/201/ 16.00H	R= 34.8R _E
6 - 1976/193/ 17.00H	R= 34.4R _E	13 - 1976/199/ 9.00H	R= 37.4R _E	20 - 1976/202/ 11.00H	R= 33.9R _E
7 - 1976/194/ 6.00H	R= 35.3R _E	14 - 1976/199/ 18.00H	R= 37.5R _E		

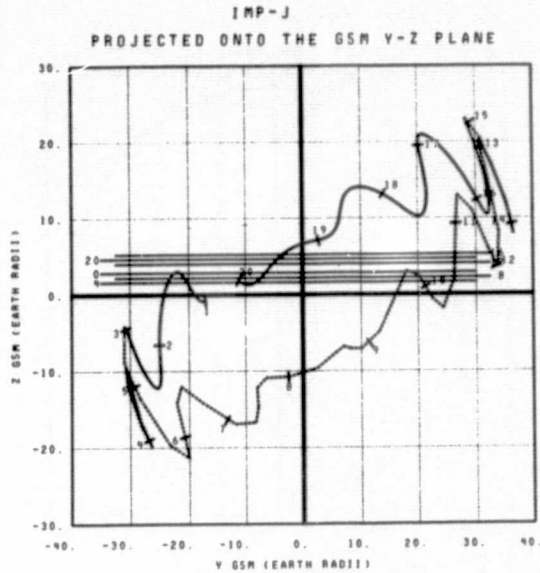
TIME AS YEAR/DAY/HOUR
TIME INTERVAL OF PLOT 1976/190 /18.00H TO 1976/202 /24.00H



INTERPRETATION OF TIME CODE-NUMBERS

1 - 1974/203/ 0.00H	LAT= -1.5	11 - 1974/209/ 14.00H	LAT= 15.8
2 - 1974/203/ 17.00H	LAT= -16.5	12 - 1974/210/ 9.00H	LAT= 27.4
3 - 1974/204/ 9.00H	LAT= -29.1	13 - 1974/211/ 2.00H	LAT= 39.4
4 - 1974/204/ 24.00H	LAT= -37.5	14 - 1974/211/ 14.00H	LAT= 40.0
5 - 1974/205/ 12.00H	LAT= -40.5	15 - 1974/212/ 9.00H	LAT= 41.1
6 - 1974/205/ 23.00H	LAT= -39.8	16 - 1974/213/ 1.00H	LAT= 37.0
7 - 1974/204/ 11.00H	LAT= -35.6	17 - 1974/213/ 17.00H	LAT= 28.3
8 - 1974/207/ 1.00H	LAT= -27.6	18 - 1974/214/ 11.00H	LAT= 14.2
9 - 1974/207/ 19.00H	LAT= -15.0		
10 - 1974/208/ 18.00H	LAT= 9.4		

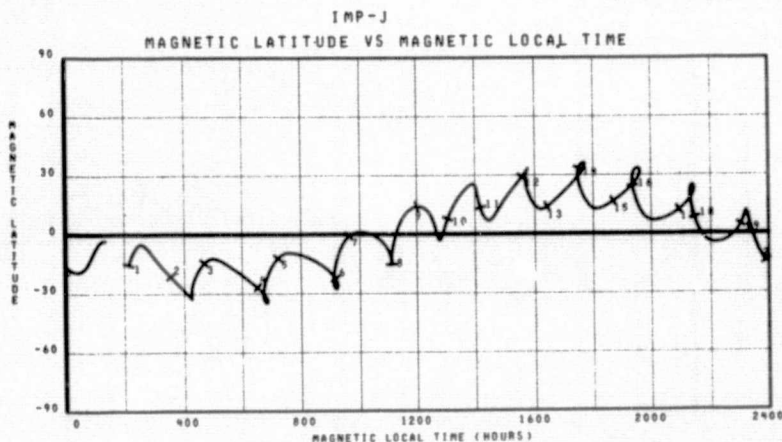
TIME AS YEAR/DAY/HOUR
LAT IS GSE LATITUDE IN DEGREES
TIME INTERVAL OF PLOT 1974/202/24.00H TO 1974/215/ 4.00H



INTERPRETATION OF TIME CODE-NUMBERS

1 - 1974/203/ 0.00H	R= 33.4Rg	11 - 1974/209/ 19.00H	R= 37.8Rg
2 - 1974/203/ 18.00H	R= 32.9Rg	12 - 1974/210/ 10.00H	R= 38.0Rg
3 - 1974/204/ 9.00H	R= 32.8Rg	13 - 1974/210/ 21.00H	R= 37.4Rg
4 - 1974/204/ 21.00H	R= 32.5Rg	14 - 1974/211/ 13.00H	R= 37.1Rg
5 - 1974/205/ 14.00H	R= 33.3Rg	15 - 1974/211/ 21.00H	R= 37.1Rg
6 - 1974/204/ 3.00H	R= 33.8Rg	16 - 1974/212/ 14.00H	R= 36.1Rg
7 - 1974/204/ 18.00H	R= 34.5Rg	17 - 1974/213/ 1.00H	R= 35.3Rg
8 - 1974/207/ 15.00H	R= 35.7Rg	18 - 1974/213/ 17.00H	R= 34.1Rg
9 - 1974/208/ 13.00H	R= 34.8Rg	19 - 1974/214/ 12.00H	R= 32.8Rg
10 - 1974/209/ 5.00H	R= 37.5Rg	20 - 1974/215/ 4.00H	R= 31.8Rg

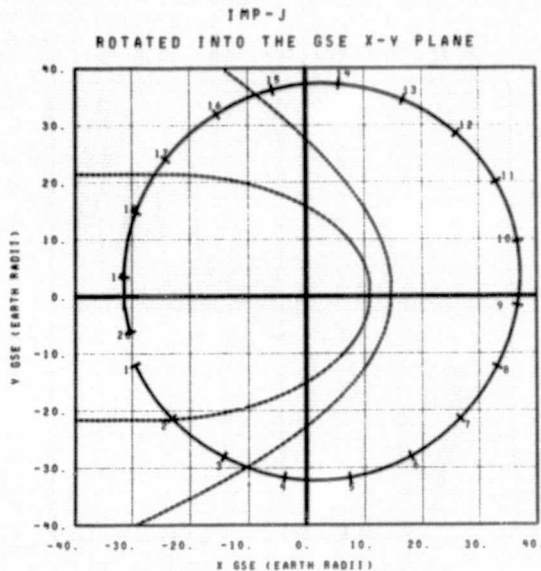
TIME AS YEAR/DAY/HOUR
R IS GEOCENTRIC DISTANCE IN EARTH RADII
TIME INTERVAL OF PLOT 1974/202/24.00H TO 1974/215/ 4.00H



INTERPRETATION OF TIME CODE-NUMBERS

1 - 1974/203/ 0.00H	R= 33.4Rg	8 - 1974/207/ 4.00H	R= 35.8Rg	15 - 1974/211/ 15.00H	R= 37.3Rg
2 - 1974/203/ 18.00H	R= 32.9Rg	9 - 1974/207/ 17.00H	R= 35.8Rg	16 - 1974/212/ 5.00H	R= 36.6Rg
3 - 1974/204/ 9.00H	R= 32.8Rg	10 - 1974/208/ 11.00H	R= 36.7Rg	17 - 1974/212/ 18.00H	R= 35.8Rg
4 - 1974/204/ 21.00H	R= 32.5Rg	11 - 1974/209/ 2.00H	R= 37.4Rg	18 - 1974/213/ 9.00H	R= 35.0Rg
5 - 1974/205/ 12.00H	R= 33.3Rg	12 - 1974/209/ 17.00H	R= 37.4Rg	19 - 1974/213/ 22.00H	R= 33.0Rg
6 - 1974/205/ 23.00H	R= 33.4Rg	13 - 1974/210/ 9.00H	R= 38.0Rg	20 - 1974/214/ 14.00H	R= 32.7Rg
7 - 1974/204/ 11.00H	R= 34.5Rg	14 - 1974/211/ 1.00H	R= 37.8Rg		

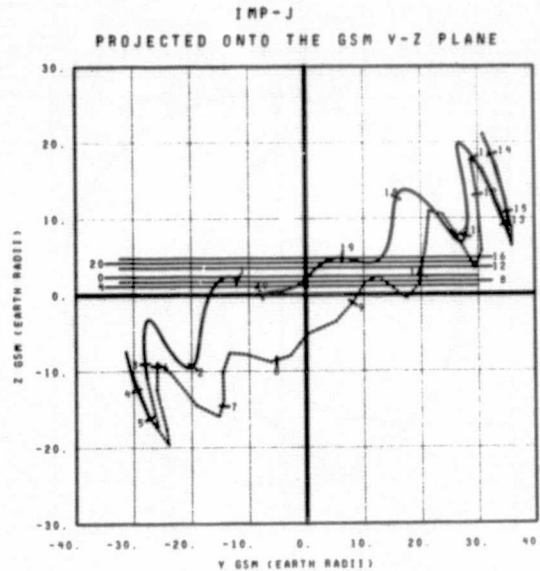
TIME AS YEAR/DAY/HOUR
TIME INTERVAL OF PLOT 1974/202/24.00H TO 1974/215/ 4.00H



INTERPRETATION OF TIME CODE-NUMBERS

1 - 1974/215/ 7.00H	LAT= -4.6	11 - 1974/221/ 19.00H	LAT= 17.0
2 - 1974/215/ 22.00H	LAT= -19.0	12 - 1974/222/ 14.00H	LAT= 28.7
3 - 1974/216/ 12.00H	LAT= -30.7	13 - 1974/223/ 6.00H	LAT= 36.0
4 - 1974/217/ 2.00H	LAT= -38.8	14 - 1974/223/ 20.00H	LAT= 40.1
5 - 1974/217/ 14.00H	LAT= -41.2	15 - 1974/224/ 11.00H	LAT= 41.3
6 - 1974/218/ 1.00H	LAT= -39.4	16 - 1974/225/ 2.00H	LAT= 38.2
7 - 1974/218/ 13.00H	LAT= -34.4	17 - 1974/225/ 18.00H	LAT= 30.2
8 - 1974/219/ 4.00H	LAT= -25.5	18 - 1974/226/ 8.00H	LAT= 19.7
9 - 1974/219/ 23.00H	LAT= -12.2	19 - 1974/226/ 23.00H	LAT= 5.9
10 - 1974/220/ 21.00H	LAT= 3.3	20 - 1974/227/ 16.00H	LAT= -5.2

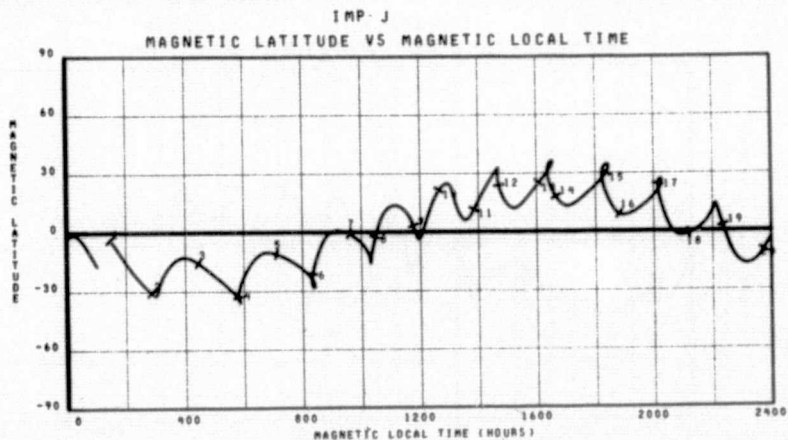
TIME AS YEAR/DAY/HOUR
LAT IS GSE LATITUDE IN DEGREES
TIME INTERVAL OF PLOT 1974/215/ 6.00H TO 1974/227/12.00H



INTERPRETATION OF TIME CODE-NUMBERS

1 - 1974/215/ 7.00H	R= 31.8Rg	11 - 1974/222/ 5.00H	R= 38.7Rg
2 - 1974/215/ 23.00H	R= 31.4Rg	12 - 1974/222/ 18.00H	R= 36.6Rg
3 - 1974/216/ 14.00H	R= 31.6Rg	13 - 1974/223/ 7.00H	R= 38.2Rg
4 - 1974/217/ 5.00H	R= 32.1Rg	14 - 1974/223/ 19.00H	R= 37.7Rg
5 - 1974/217/ 18.00H	R= 32.8Rg	15 - 1974/224/ 7.00H	R= 34.9Rg
6 - 1974/218/ 9.00H	R= 33.9Rg	16 - 1974/224/ 19.00H	R= 34.0Rg
7 - 1974/219/ 1.00H	R= 35.1Rg	17 - 1974/225/ 9.00H	R= 34.8Rg
8 - 1974/219/ 19.00H	R= 34.4Rg	18 - 1974/225/ 24.00H	R= 33.5Rg
9 - 1974/220/ 18.00H	R= 37.8Rg	19 - 1974/226/ 17.00H	R= 32.0Rg
10 - 1974/221/ 15.00H	R= 38.5Rg	20 - 1974/227/ 12.00H	R= 38.9Rg

TIME AS YEAR/DAY/HOUR
R IS GEOCENTRIC DISTANCE IN EARTH RADII
TIME INTERVAL OF PLOT 1974/215/ 6.00H TO 1974/227/12.00H

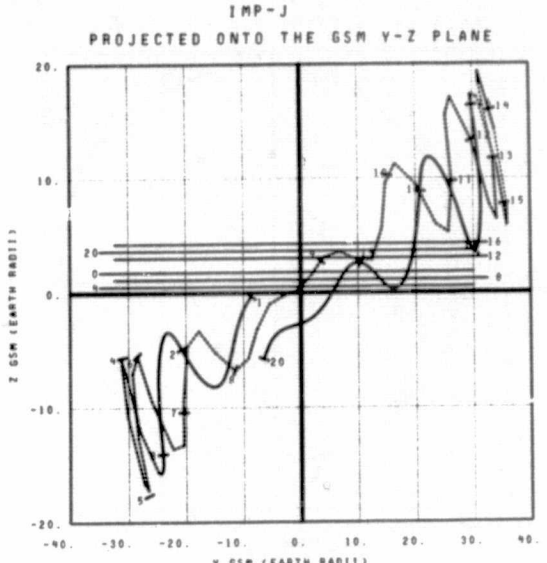
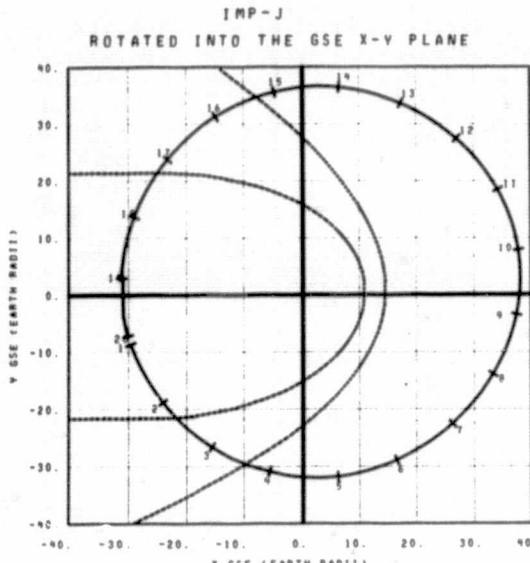


INTERPRETATION OF TIME CODE-NUMBERS

1 - 1974/215/ 7.00H	R= 31.8Rg	6 - 1974/219/ 9.00H	R= 35.7Rg	15 - 1974/223/ 19.00H	R= 37.7Rg
2 - 1974/215/ 23.00H	R= 31.4Rg	7 - 1974/219/ 23.00H	R= 34.7Rg	16 - 1974/224/ 11.00H	R= 34.7Rg
3 - 1974/216/ 14.00H	R= 31.6Rg	8 - 1974/220/ 18.00H	R= 37.4Rg	17 - 1974/225/ 13.00H	R= 35.4Rg
4 - 1974/217/ 5.00H	R= 32.1Rg	9 - 1974/221/ 10.00H	R= 36.4Rg	18 - 1974/226/ 8.00H	R= 34.2Rg
5 - 1974/217/ 18.00H	R= 32.8Rg	10 - 1974/222/ 1.00H	R= 38.7Rg	19 - 1974/226/ 23.00H	R= 32.0Rg
6 - 1974/218/ 9.00H	R= 33.9Rg	11 - 1974/223/ 15.00H	R= 38.6Rg	20 - 1974/227/ 22.00H	R= 31.7Rg
7 - 1974/218/ 17.00H	R= 34.4Rg	12 - 1974/223/ 8.00H	R= 38.3Rg		

TIME AS YEAR/DAY/HOUR
TIME INTERVAL OF PLOT 1974/215 / 6.00H TO 1974/227 /12.00H

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INTERPRETATION OF TIME CODE-NUMBERS

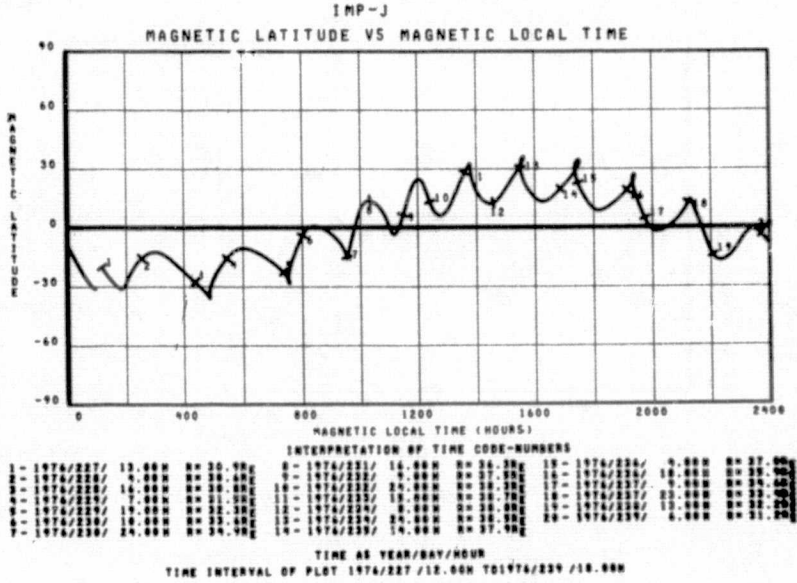
1 - 1974/227/ 13.00H	LAT= -8.2	11 - 1974/234/ 6.00H	LAT= 24.2
2 - 1974/228/ 3.00H	LAT= -22.1	12 - 1974/234/ 24.00H	LAT= 33.3
3 - 1974/228/ 17.00H	LAT= -33.4	13 - 1974/235/ 15.00H	LAT= 38.7
4 - 1974/229/ 6.00H	LAT= -40.0	14 - 1974/234/ 9.00H	LAT= 41.1
5 - 1974/229/ 14.00H	LAT= -40.8	15 - 1974/234/ 18.00H	LAT= 40.2
6 - 1974/230/ 6.00H	LAT= -37.4	16 - 1974/237/ 9.00H	LAT= 35.0
7 - 1974/230/ 20.00H	LAT= -30.2	17 - 1974/237/ 24.00H	LAT= 25.4
8 - 1974/231/ 13.00H	LAT= -18.8	18 - 1974/238/ 15.00H	LAT= 13.0
9 - 1974/232/ 10.00H	LAT= -9.0	19 - 1974/239/ 6.00H	LAT= -1.7
10 - 1974/233/ 9.00H	LAT= 11.5	20 - 1974/239/ 14.00H	LAT= -11.8

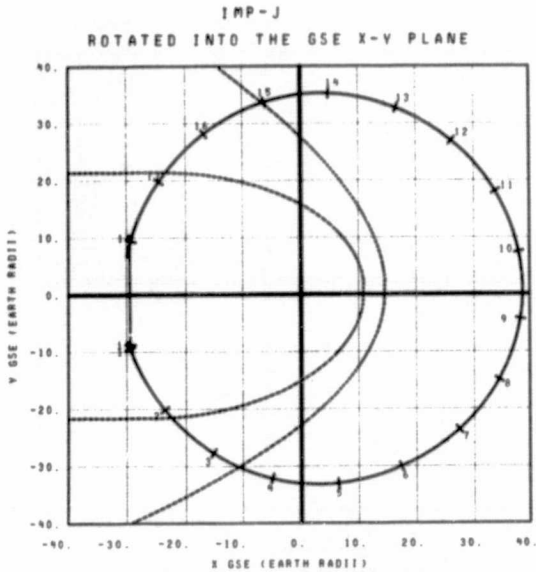
TIME AS YEAR/DAY/HOUR
LAT IS GSE LATITUDE IN DEGREES
TIME INTERVAL OF PLOT 1974/227/12.00H TO 1974/239/18.00H

INTERPRETATION OF TIME CODE-NUMBERS

1 - 1974/227/ 13.00H	R= 30.9R _E	11 - 1974/234/ 14.00H	R= 38.7R _E
2 - 1974/228/ 7.00H	R= 30.4R _E	12 - 1974/235/ 9.00H	R= 38.4R _E
3 - 1974/228/ 20.00H	R= 30.9R _E	13 - 1974/235/ 14.00H	R= 37.8R _E
4 - 1974/229/ 10.00H	R= 31.7R _E	14 - 1974/234/ 3.00H	R= 37.1R _E
5 - 1974/229/ 22.00H	R= 32.4R _E	15 - 1974/234/ 14.00H	R= 36.3R _E
6 - 1974/230/ 12.00H	R= 33.8R _E	16 - 1974/237/ 1.00H	R= 35.3R _E
7 - 1974/231/ 3.00H	R= 35.2R _E	17 - 1974/237/ 11.00H	R= 34.4R _E
8 - 1974/231/ 26.00H	R= 34.4R _E	18 - 1974/238/ 2.00H	R= 33.1R _E
9 - 1974/232/ 23.00H	R= 38.2R _E	19 - 1974/238/ 19.00H	R= 31.4R _E
10 - 1974/233/ 21.00H	R= 38.8R _E	20 - 1974/239/ 18.00H	R= 30.9R _E

TIME AS YEAR/DAY/HOUR
R IS GEOCENTRIC DISTANCE IN EARTH RADII
TIME INTERVAL OF PLOT 1974/227/12.00H TO 1974/239/18.00H

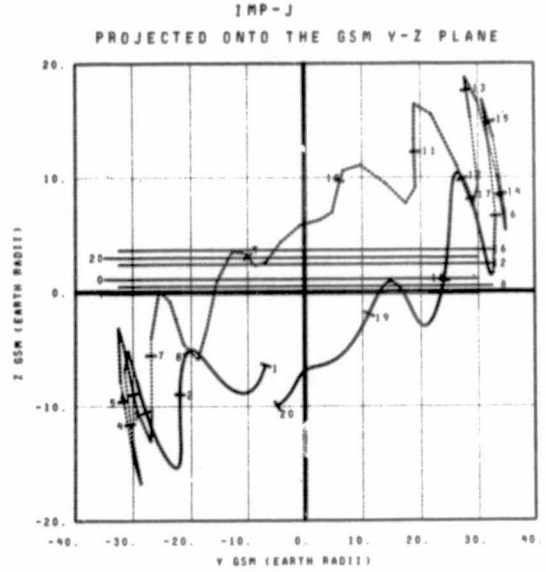




INTERPRETATION OF TIME CODE-NUMBERS

1 - 1974/239/ 19.00H LAT= -14.8	11 - 1974/246/ 22.00H LAT= 30.9
2 - 1974/240/ 10.00H CRT= -28.5	12 - 1974/247/ 14.00H LAT= 37.6
3 - 1974/240/ 24.00H LAT= -37.6	13 - 1974/248/ 3.00H LAT= 40.7
4 - 1974/241/ 19.00H LAT= -41.1	14 - 1974/248/ 14.00H LAT= 40.9
5 - 1974/242/ 3.00H LAT= -39.1	15 - 1974/249/ 6.00H LAT= 37.1
6 - 1974/242/ 16.00H LAT= -33.5	16 - 1974/249/ 22.00H LAT= 27.7
7 - 1974/243/ 9.00H LAT= -23.1	17 - 1974/250/ 13.00H LAT= 15.0
8 - 1974/244/ 5.00H LAT= -9.4	18 - 1974/251/ 5.00H LAT= -1.1
9 - 1974/245/ 9.00H LAT= 4.0	19 - 1974/251/ 20.00H LAT= -14.4
10 - 1974/246/ 3.00H LAT= 20.5	

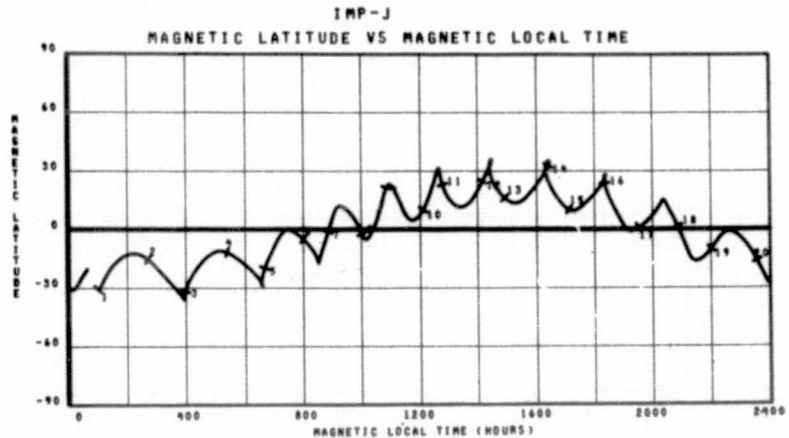
TIME AS YEAR/DAY/HOUR
LAT IS GSE LATITUDE IN DEGREES
TIME INTERVAL OF PLOT 1974/239/19.00H TO 1974/251/24.00H



INTERPRETATION OF TIME CODE-NUMBERS

1 - 1974/239/ 19.00H R= 30.9Rg	11 - 1974/246/ 17.00H R= 38.5Rg
2 - 1974/240/ 10.00H R= 31.2Rg	12 - 1974/247/ 7.00H R= 37.9Rg
3 - 1974/241/ 5.00H R= 31.9Rg	13 - 1974/247/ 20.00H R= 37.2Rg
4 - 1974/241/ 17.00H R= 32.8Rg	14 - 1974/248/ 7.00H R= 34.5Rg
5 - 1974/242/ 9.00H R= 33.8Rg	15 - 1974/248/ 19.00H R= 35.3Rg
6 - 1974/242/ 17.00H R= 34.8Rg	16 - 1974/249/ 4.00H R= 34.3Rg
7 - 1974/243/ 5.00H R= 35.8Rg	17 - 1974/249/ 18.00H R= 33.1Rg
8 - 1974/243/ 19.00H R= 36.9Rg	18 - 1974/250/ 4.00H R= 32.1Rg
9 - 1974/244/ 15.00H R= 38.0Rg	19 - 1974/251/ 2.00H R= 30.9Rg
10 - 1974/245/ 20.00H R= 38.8Rg	20 - 1974/251/ 24.00H R= 30.7Rg

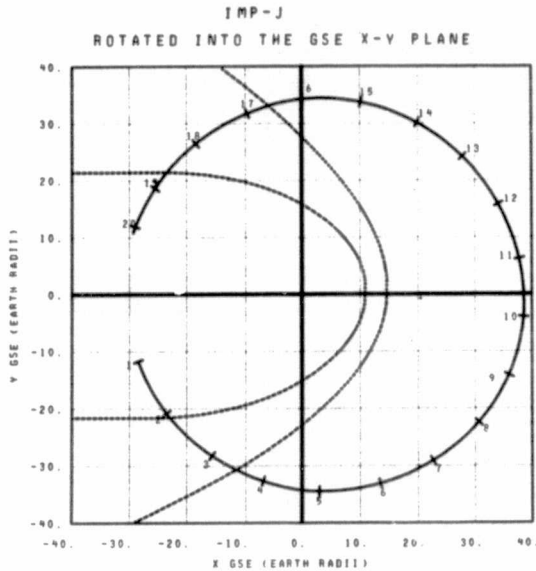
TIME AS YEAR/DAY/HOUR
R IS WEGCENTRIC DISTANCE IN EARTH RADII
TIME INTERVAL OF PLOT 1974/239/19.00H TO 1974/251/24.00H



INTERPRETATION OF TIME CODE-NUMBERS

1 - 1974/239/ 19.00H R= 30.9Rg	11 - 1974/246/ 17.00H R= 37.2Rg	21 - 1974/248/ 9.00H R= 34.2Rg
2 - 1974/240/ 10.00H R= 31.2Rg	12 - 1974/247/ 7.00H R= 37.9Rg	22 - 1974/249/ 4.00H R= 34.3Rg
3 - 1974/240/ 24.00H R= 31.9Rg	13 - 1974/247/ 20.00H R= 37.2Rg	23 - 1974/249/ 18.00H R= 33.1Rg
4 - 1974/241/ 17.00H R= 32.8Rg	14 - 1974/248/ 7.00H R= 34.5Rg	24 - 1974/250/ 4.00H R= 32.1Rg
5 - 1974/242/ 9.00H R= 33.8Rg	15 - 1974/248/ 19.00H R= 35.3Rg	25 - 1974/251/ 2.00H R= 30.9Rg
6 - 1974/242/ 17.00H R= 34.8Rg	16 - 1974/249/ 4.00H R= 34.3Rg	26 - 1974/251/ 24.00H R= 30.7Rg
7 - 1974/243/ 5.00H R= 35.8Rg	17 - 1974/249/ 18.00H R= 33.1Rg	
8 - 1974/243/ 19.00H R= 36.9Rg	18 - 1974/250/ 4.00H R= 32.1Rg	
9 - 1974/244/ 15.00H R= 38.0Rg	19 - 1974/251/ 2.00H R= 30.9Rg	
10 - 1974/245/ 20.00H R= 38.8Rg	20 - 1974/251/ 24.00H R= 30.7Rg	

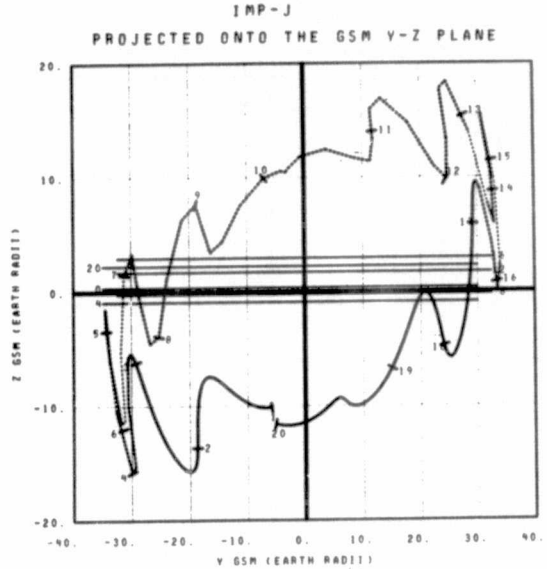
TIME AS YEAR/DAY/HOUR
TIME INTERVAL OF PLOT 1974/239/19.00H TO 1974/251/24.00H



INTERPRETATION OF TIME CODE-NUMBERS

1 - 1976/252/ 1.00H LAT= -21.4	11 - 1976/258/ 17.00H LAT= 27.0
2 - 1976/252/ 15.00H LAT= -32.0	12 - 1976/259/ 8.00H LAT= 34.3
3 - 1976/253/ 5.00H LAT= -39.7	13 - 1976/259/ 21.00H LAT= 38.9
4 - 1976/253/ 18.00H LAT= -40.9	14 - 1976/260/ 8.00H LAT= 40.7
5 - 1976/254/ 7.00H LAT= -37.8	15 - 1976/260/ 19.00H LAT= 40.2
6 - 1976/254/ 20.00H LAT= -31.7	16 - 1976/261/ 6.00H LAT= 37.0
7 - 1976/255/ 11.00H LAT= -22.7	17 - 1976/261/ 20.00H LAT= 29.4
8 - 1976/256/ 4.00H LAT= -10.3	18 - 1976/262/ 10.00H LAT= 18.4
9 - 1976/257/ 2.00H LAT= 3.0	19 - 1976/263/ 1.00H LAT= 4.3
10 - 1976/257/ 23.00H LAT= 16.5	20 - 1976/264/ 4.00H LAT= -21.9

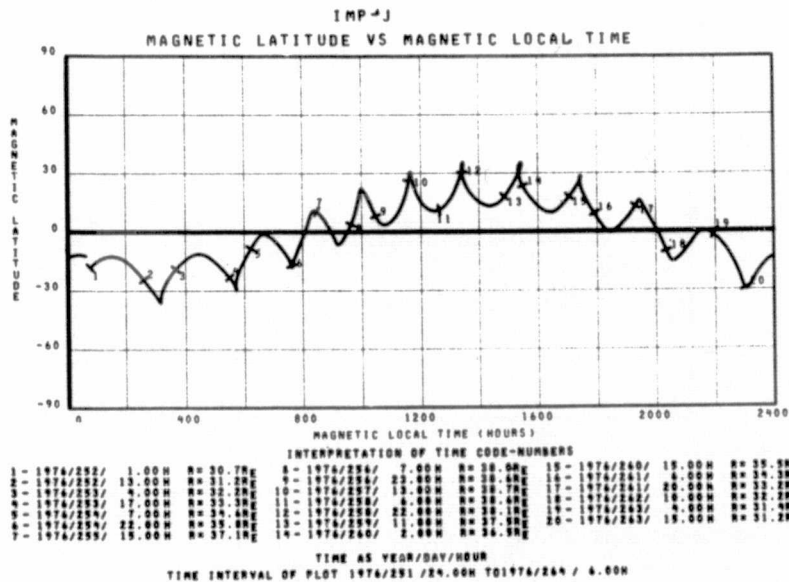
TIME AS YEAR/DAY/HOUR
LAT IS GSE LATITUDE IN DEGREES
TIME INTERVAL OF PLOT 1976/251/24.00H TO 1976/264/ 4.00H



INTERPRETATION OF TIME CODE-NUMBERS

1 - 1976/252/ 1.00H R= 30.7Rg	11 - 1976/258/ 17.00H R= 38.3Rg
2 - 1976/252/ 19.00H R= 31.6Rg	12 - 1976/259/ 11.00H R= 37.5Rg
3 - 1976/253/ 9.00H R= 32.6Rg	13 - 1976/260/ 3.00H R= 36.4Rg
4 - 1976/253/ 24.00H R= 33.9Rg	14 - 1976/260/ 15.00H R= 35.5Rg
5 - 1976/254/ 8.00H R= 34.6Rg	15 - 1976/261/ 3.00H R= 34.5Rg
6 - 1976/254/ 21.00H R= 35.8Rg	16 - 1976/261/ 13.00H R= 33.7Rg
7 - 1976/255/ 8.00H R= 36.6Rg	17 - 1976/262/ 2.00H R= 32.7Rg
8 - 1976/255/ 24.00H R= 37.6Rg	18 - 1976/262/ 14.00H R= 32.0Rg
9 - 1976/256/ 12.00H R= 38.2Rg	19 - 1976/263/ 5.00H R= 31.4Rg
10 - 1976/257/ 8.00H R= 38.7Rg	20 - 1976/264/ 4.00H R= 31.4Rg

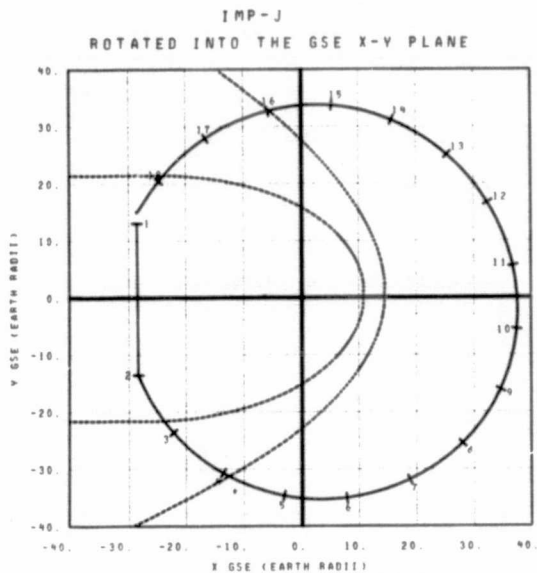
TIME AS YEAR/DAY/HOUR
R IS GEOCENTRIC DISTANCE IN EARTH RADII
TIME INTERVAL OF PLOT 1976/251/24.00H TO 1976/264/ 4.00H



INTERPRETATION OF TIME CODE-NUMBERS

1 - 1976/252/ 1.00H R= 30.7Rg	8 - 1976/256/ 7.00H R= 36.0Rg	15 - 1976/263/ 15.00H R= 35.5Rg
2 - 1976/252/ 15.00H R= 31.2Rg	9 - 1976/257/ 13.00H R= 36.7Rg	16 - 1976/263/ 4.00H R= 34.3Rg
3 - 1976/253/ 5.00H R= 32.6Rg	10 - 1976/257/ 21.00H R= 38.9Rg	17 - 1976/264/ 20.00H R= 33.2Rg
4 - 1976/253/ 18.00H R= 33.3Rg	11 - 1976/258/ 8.00H R= 38.6Rg	18 - 1976/264/ 14.00H R= 31.4Rg
5 - 1976/254/ 7.00H R= 34.6Rg	12 - 1976/259/ 19.00H R= 37.5Rg	19 - 1976/263/ 1.00H R= 31.4Rg
6 - 1976/254/ 20.00H R= 35.8Rg	13 - 1976/260/ 3.00H R= 36.4Rg	20 - 1976/263/ 5.00H R= 31.4Rg
7 - 1976/255/ 11.00H R= 36.6Rg	14 - 1976/261/ 6.00H R= 37.0Rg	

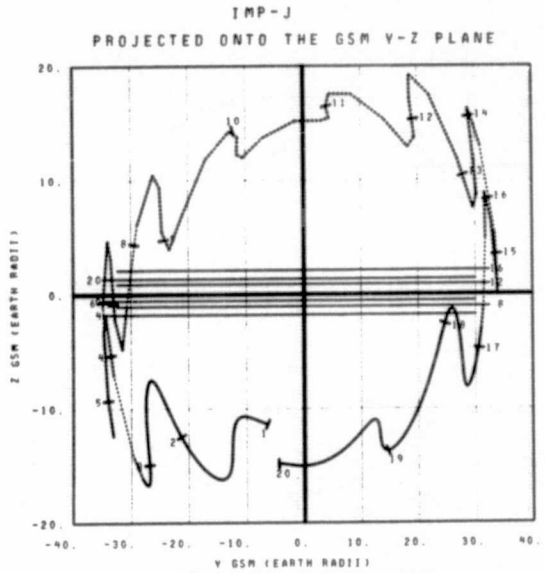
TIME AS YEAR/DAY/HOUR
TIME INTERVAL OF PLOT 1976/251/24.00H TO 1976/264/ 4.00H



INTERPRETATION OF TIME CODE-NUMBERS

1 - 1976/264/ 7.00H	LAT= -24.5	11 - 1976/271/ 5.00H	LAT= 32.4
2 - 1976/264/ 8.00H	LAT= -25.4	12 - 1976/271/ 20.00H	LAT= 38.1
3 - 1976/265/ 3.00H	LAT= -37.4	13 - 1976/272/ 8.00H	LAT= 40.3
4 - 1976/265/ 19.00H	LAT= -40.8	14 - 1976/272/ 20.00H	LAT= 35.5
5 - 1976/266/ 11.00H	LAT= -37.4	15 - 1976/273/ 8.00H	LAT= 35.5
6 - 1976/267/ 2.00H	LAT= -30.2	16 - 1976/273/ 23.00H	LAT= 26.5
7 - 1976/267/ 20.00H	LAT= -19.0	17 - 1976/274/ 16.00H	LAT= 12.5
8 - 1976/268/ 17.00H	LAT= -4.9	18 - 1976/275/ 10.00H	LAT= -4.4
9 - 1976/269/ 16.00H	LAT= 19.4		
10 - 1976/270/ 12.00H	LAT= 23.2		

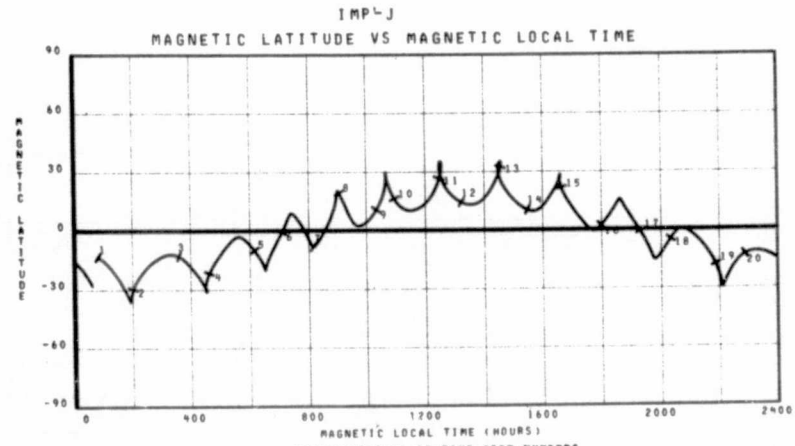
TIME AS YEAR/DAY/HOUR
LAT IS GSE LATITUDE IN DEGREES
TIME INTERVAL OF PLOT 1976/264/ 6.00H TO 1976/276/12.00H



INTERPRETATION OF TIME CODE-NUMBERS

1 - 1976/264/ 7.00H	R= 31.4Rg	11 - 1976/270/ 18.00H	R= 37.4Rg
2 - 1976/265/ 5.00H	R= 32.5Rg	12 - 1976/271/ 16.00H	R= 36.7Rg
3 - 1976/265/ 19.00H	R= 33.5Rg	13 - 1976/272/ 7.00H	R= 35.8Rg
4 - 1976/266/ 7.00H	R= 34.5Rg	14 - 1976/272/ 20.00H	R= 34.9Rg
5 - 1976/266/ 18.00H	R= 35.3Rg	15 - 1976/273/ 7.00H	R= 34.2Rg
6 - 1976/267/ 6.00H	R= 36.1Rg	16 - 1976/273/ 20.00H	R= 33.9Rg
7 - 1976/267/ 17.00H	R= 36.0Rg	17 - 1976/274/ 7.00H	R= 32.8Rg
8 - 1976/268/ 5.00H	R= 37.4Rg	18 - 1976/274/ 24.00H	R= 32.2Rg
9 - 1976/268/ 19.00H	R= 37.9Rg	19 - 1976/275/ 11.00H	R= 32.1Rg
10 - 1976/269/ 11.00H	R= 38.1Rg	20 - 1976/276/ 12.00H	R= 32.5Rg

TIME AS YEAR/DAY/HOUR
R IS GEOCENTRIC DISTANCE IN EARTH RADII
TIME INTERVAL OF PLOT 1976/264/ 6.00H TO 1976/276/12.00H

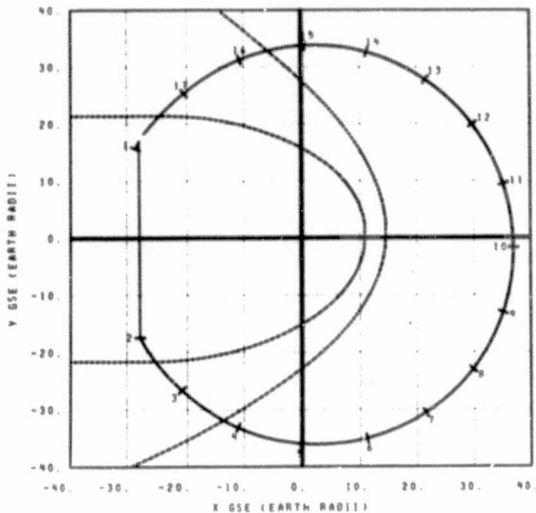


INTERPRETATION OF TIME CODE-NUMBERS

1 - 1976/264/ 7.00H	R= 31.4Rg	8 - 1976/268/ 16.00H	R= 37.8Rg	15 - 1976/273/ 1.00H	R= 34.4Rg
2 - 1976/264/ 23.00H	R= 32.2Rg	9 - 1976/269/ 7.00H	R= 38.1Rg	16 - 1976/273/ 14.00H	R= 32.3Rg
3 - 1976/265/ 10.00H	R= 32.9Rg	10 - 1976/269/ 23.00H	R= 38.1Rg	17 - 1976/274/ 4.00H	R= 32.3Rg
4 - 1976/266/ 2.00H	R= 33.1Rg	11 - 1976/270/ 12.00H	R= 37.9Rg	18 - 1976/274/ 20.00H	R= 32.3Rg
5 - 1976/266/ 14.00H	R= 35.1Rg	12 - 1976/271/ 4.00H	R= 37.2Rg	19 - 1976/275/ 9.00H	R= 32.1Rg
6 - 1976/267/ 7.00H	R= 36.2Rg	13 - 1976/271/ 16.00H	R= 36.5Rg	20 - 1976/276/ 1.00H	R= 32.5Rg
7 - 1976/267/ 20.00H	R= 37.2Rg	14 - 1976/272/ 7.00H	R= 35.8Rg		

TIME AS YEAR/DAY/HOUR
TIME INTERVAL OF PLOT 1976/264 / 6.00H TO 1976/276 / 12.00H

IMP-J
ROTATED INTO THE GSE X-Y PLANE



INTERPRETATION OF TIME CODE-NUMBERS

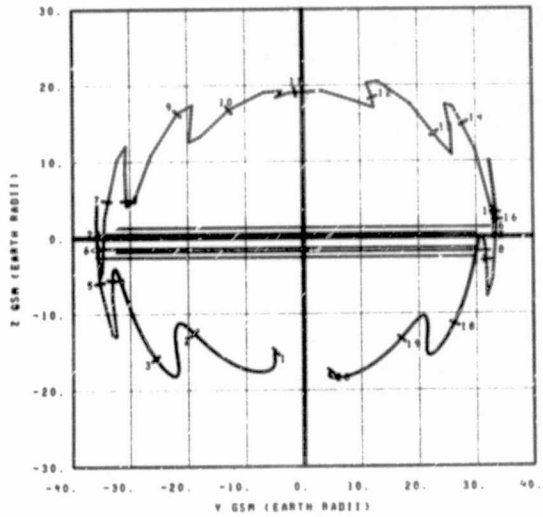
1 - 1974/276/ 13.00H	LAT= -27.9	11 - 1974/283/ 22.00H	LAT= 38.3
2 - 1974/276/ 19.00H	LAT= -32.0	12 - 1974/284/ 11.00H	LAT= 40.4
3 - 1974/277/ 17.00H	LAT= -40.4	13 - 1974/284/ 23.00H	LAT= 39.2
4 - 1974/278/ 12.00H	LAT= -38.2	14 - 1974/285/ 12.00H	LAT= 34.6
5 - 1974/279/ 8.00H	LAT= -29.9	15 - 1974/286/ 2.00H	LAT= 24.3
6 - 1974/279/ 24.00H	LAT= -18.7	16 - 1974/286/ 20.00H	LAT= 12.0
7 - 1974/280/ 21.00H	LAT= -4.2	17 - 1974/287/ 19.00H	LAT= -5.1
8 - 1974/281/ 19.00H	LAT= 11.0		
9 - 1974/282/ 15.00H	LAT= 23.9		
10 - 1974/283/ 8.00H	LAT= 33.1		

TIME AS YEAR/DAY/HOUR

LAT IS GSE LATITUDE IN DEGREES

TIME INTERVAL OF PLOT 1974/276/12.00H TO 1974/288/18.00H

IMP-J
PROJECTED ONTO THE GSM Y-Z PLANE



INTERPRETATION OF TIME CODE-NUMBERS

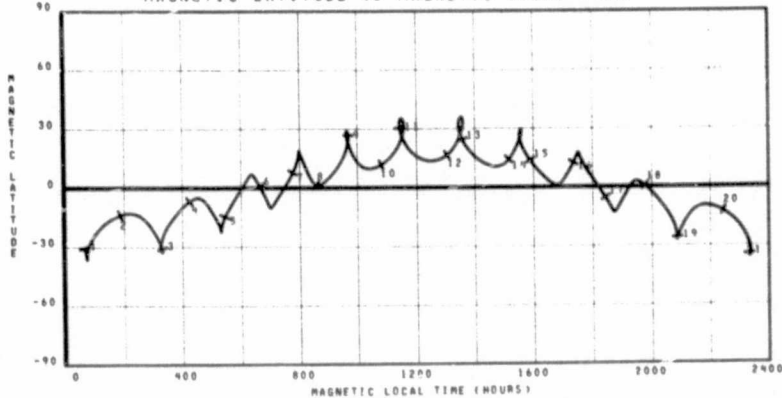
1 - 1974/276/ 13.00H	R= 32.5R _E	11 - 1974/283/ 22.00H	R= 37.1R _E
2 - 1974/277/ 17.00H	R= 33.3R _E	12 - 1974/283/ 16.00H	R= 34.6R _E
3 - 1974/278/ 12.00H	R= 34.4R _E	13 - 1974/284/ 11.00H	R= 34.0R _E
4 - 1974/278/ 19.00H	R= 35.1R _E	14 - 1974/285/ 12.00H	R= 35.0R _E
5 - 1974/279/ 8.00H	R= 35.8R _E	15 - 1974/285/ 14.00H	R= 34.4R _E
6 - 1974/279/ 24.00H	R= 36.5R _E	16 - 1974/286/ 2.00H	R= 33.7R _E
7 - 1974/280/ 21.00H	R= 36.9R _E	17 - 1974/286/ 17.00H	R= 33.2R _E
8 - 1974/280/ 19.00H	R= 37.3R _E	18 - 1974/287/ 19.00H	R= 32.8R _E
9 - 1974/281/ 15.00H	R= 37.5R _E	19 - 1974/288/ 2.00H	R= 32.5R _E
10 - 1974/282/ 8.00H	R= 37.5R _E	20 - 1974/288/ 18.00H	R= 32.7R _E

TIME AS YEAR/DAY/HOUR

R IS GEOCENTRIC DISTANCE IN EARTH RADII

TIME INTERVAL OF PLOT 1974/276/12.00H TO 1974/288/18.00H

IMP-J
MAGNETIC LATITUDE VS MAGNETIC LOCAL TIME

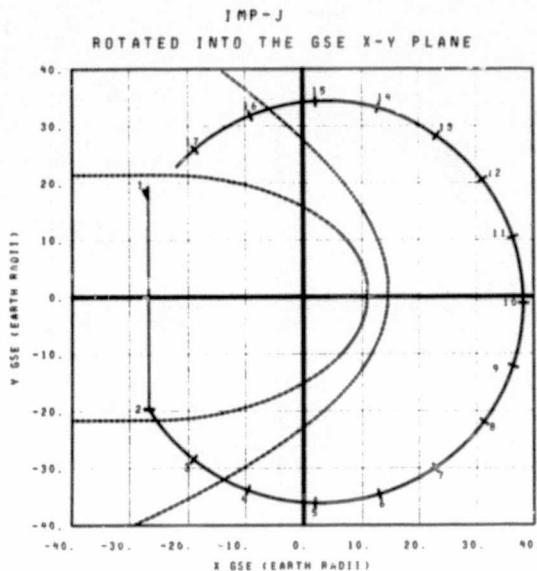


INTERPRETATION OF TIME CODE-NUMBERS

1 - 1974/276/ 13.00H	R= 32.5R _E	8 - 1974/280/ 24.00H	R= 37.4R _E	15 - 1974/285/ 3.00H	R= 35.0R _E
2 - 1974/277/ 17.00H	R= 33.3R _E	9 - 1974/281/ 12.00H	R= 37.4R _E	16 - 1974/285/ 17.00H	R= 34.2R _E
3 - 1974/278/ 12.00H	R= 34.4R _E	10 - 1974/282/ 19.00H	R= 37.5R _E	17 - 1974/286/ 2.00H	R= 33.4R _E
4 - 1974/278/ 19.00H	R= 35.1R _E	11 - 1974/282/ 20.00H	R= 37.5R _E	18 - 1974/287/ 12.00H	R= 32.7R _E
5 - 1974/279/ 8.00H	R= 35.8R _E	12 - 1974/283/ 8.00H	R= 38.0R _E	19 - 1974/288/ 2.00H	R= 32.5R _E
6 - 1974/279/ 24.00H	R= 36.5R _E	13 - 1974/283/ 24.00H	R= 38.3R _E	20 - 1974/288/ 18.00H	R= 32.7R _E
7 - 1974/280/ 21.00H	R= 36.9R _E	14 - 1974/284/ 11.00H	R= 39.0R _E	21 - 1974/288/ 18.00H	R= 32.7R _E

TIME AS YEAR/DAY/HOUR

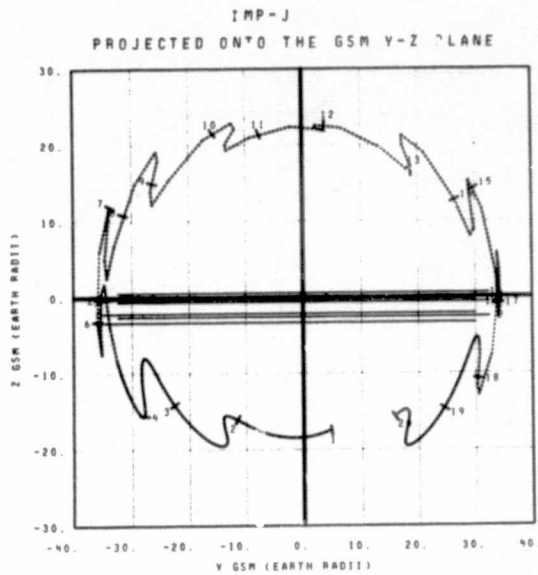
TIME INTERVAL OF PLOT 1974/276/12.00H TO 1974/288/18.00H



INTERPRETATION OF TIME CODE-NUMBERS

1 - 1974/288/ 19.00H	LAT = -28.7	11 - 1974/296/ 13.00H	LAT = 39.2
2 - 1974/281/ 8.00H	LAT = -34.3	12 - 1974/297/ 2.00H	LAT = 38.9
3 - 1974/290/ 10.00H	LAT = -39.6	13 - 1974/297/ 15.00H	LAT = 35.7
4 - 1974/291/ 5.00H	LAT = -32.4	14 - 1974/298/ 6.00H	LAT = 28.8
5 - 1974/292/ 1.00H	LAT = -20.1	15 - 1974/299/ 22.00H	LAT = 18.3
6 - 1974/292/ 23.00H	LAT = -6.9	16 - 1974/299/ 17.00H	LAT = 2.9
7 - 1974/293/ 18.00H	LAT = 8.9	17 - 1974/300/ 13.00H	LAT = -14.9
8 - 1974/294/ 15.00H	LAT = 22.2		
9 - 1974/295/ 8.00H	LAT = 31.1		
10 - 1974/295/ 23.00H	LAT = 34.6		

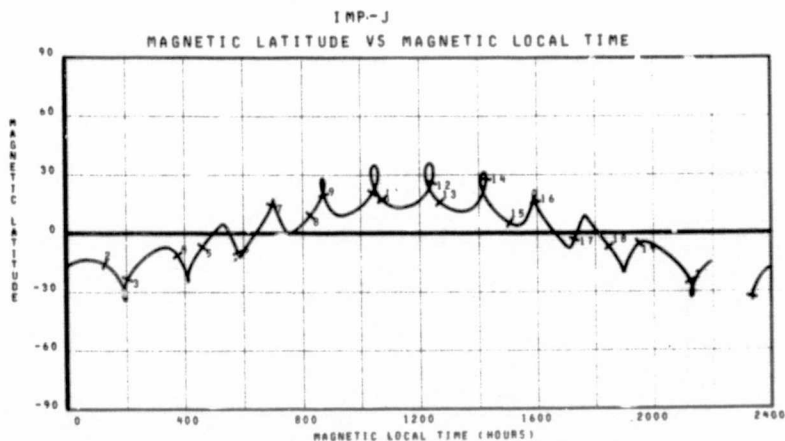
TIME AS YEAR/DAY/HOUR
LAT IS GSE LATITUDE IN DEGREES
TIME INTERVAL OF PLOT 1974/288/18.00H TO 1974/300/24.00H



INTERPRETATION OF TIME CODE-NUMBERS

1 - 1974/288/ 19.00H	R = 32.7R _E	11 - 1974/295/ 3.00H	R = 38.3R _E
2 - 1974/289/ 9.00H	R = 33.1R _E	12 - 1974/295/ 24.00H	R = 38.1R _E
3 - 1974/290/ 3.00H	R = 34.0R _E	13 - 1974/296/ 12.00H	R = 37.8R _E
4 - 1974/290/ 21.00H	R = 34.8R _E	14 - 1974/297/ 6.00H	R = 37.0R _E
5 - 1974/291/ 8.00H	R = 35.3R _E	15 - 1974/297/ 24.00H	R = 36.0R _E
6 - 1974/292/ 2.00H	R = 36.2R _E	16 - 1974/298/ 8.00H	R = 35.4R _E
7 - 1974/292/ 11.00H	R = 36.5R _E	17 - 1974/299/ 3.00H	R = 34.1R _E
8 - 1974/293/ 4.00H	R = 37.2R _E	18 - 1974/299/ 15.00H	R = 33.2R _E
9 - 1974/293/ 17.00H	R = 37.4R _E	19 - 1974/300/ 5.00H	R = 32.4R _E
10 - 1974/294/ 7.00H	R = 38.6R _E	20 - 1974/300/ 24.00H	R = 31.6R _E

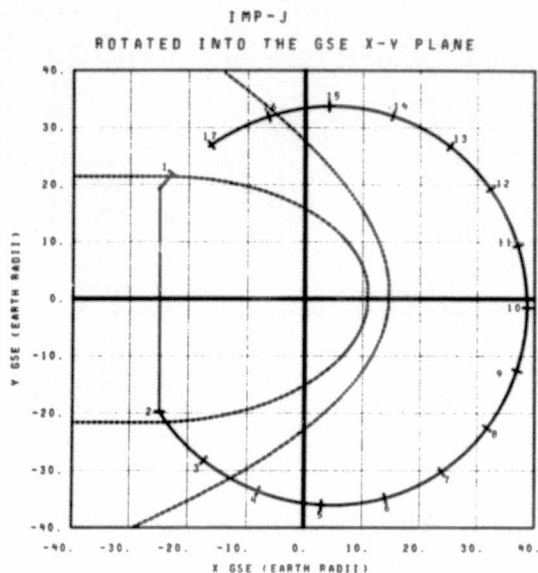
TIME AS YEAR/DAY/HOUR
R IS GEOCENTRIC DISTANCE IN EARTH R_E UNITS
TIME INTERVAL OF PLOT 1974/288/18.00H TO 1974/300/24.00H



INTERPRETATION OF TIME CODE-NUMBERS

1 - 1974/288/ 19.00H	R = 32.7R _E	8 - 1974/293/ 5.00H	R = 37.2R _E	15 - 1974/297/ 4.00H	R = 37.8R _E
2 - 1974/281/ 8.00H	R = 33.1R _E	9 - 1974/293/ 19.00H	R = 37.7R _E	16 - 1974/297/ 24.00H	R = 36.8R _E
3 - 1974/289/ 9.00H	R = 33.8R _E	10 - 1974/294/ 8.00H	R = 38.0R _E	17 - 1974/298/ 14.00H	R = 35.8R _E
4 - 1974/290/ 10.00H	R = 34.0R _E	11 - 1974/294/ 24.00H	R = 38.3R _E	18 - 1974/299/ 14.00H	R = 35.0R _E
5 - 1974/290/ 12.00H	R = 34.3R _E	12 - 1974/295/ 11.00H	R = 38.3R _E	19 - 1974/299/ 22.00H	R = 33.8R _E
6 - 1974/291/ 5.00H	R = 35.3R _E	13 - 1974/296/ 2.00H	R = 38.1R _E	20 - 1974/300/ 9.00H	R = 32.2R _E
7 - 1974/291/ 19.00H	R = 35.8R _E	14 - 1974/296/ 15.00H	R = 37.7R _E		

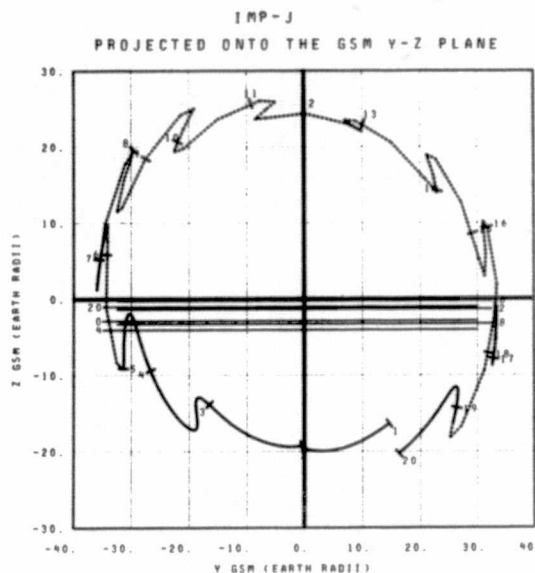
TIME AS YEAR/DAY/HOUR
TIME INTERVAL OF PLOT 1974/288 /18.00H TO 1974/300 /24.00H



INTERPRETATION OF TIME CODE-NUMBERS

1 - 1976/301/ 1.00H	LAT= -25.1	11 - 1976/309/ 2.00H	LAT= 39.2
2 - 1976/302/ 1.00H	LAT= -38.4	12 - 1976/309/ 15.00H	LAT= 37.2
3 - 1976/303/ 5.00H	LAT= -33.9	13 - 1976/310/ 4.00H	LAT= 32.7
4 - 1976/303/ 24.00H	LAT= -22.0	14 - 1976/310/ 20.00H	LAT= 24.0
5 - 1976/304/ 20.00H	LAT= -7.6	15 - 1976/311/ 14.00H	LAT= 11.0
6 - 1976/305/ 17.00H	LAT= 7.2	16 - 1976/312/ 8.00H	LAT= -4.4
7 - 1976/306/ 13.00H	LAT= 19.8	17 - 1976/313/ 3.00H	LAT= -21.3
8 - 1976/307/ 7.00H	LAT= 29.2		
9 - 1976/307/ 25.00H	LAT= 35.5		
10 - 1976/308/ 13.00H	LAT= 38.6		

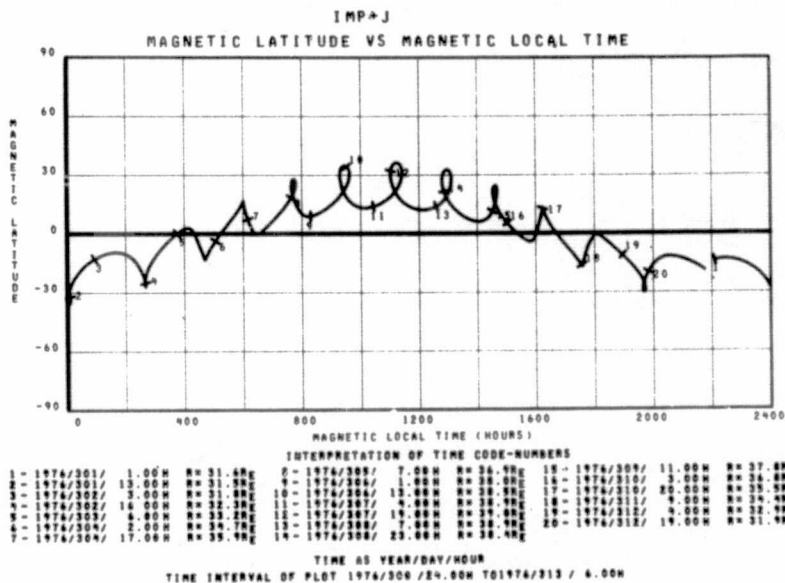
TIME AS YEAR/DAY/HOUR
LAT IS GSE LATITUDE IN DEGREES
TIME INTERVAL OF PLOT 1976/306/24.00H TO 1976/313/ 6.00H

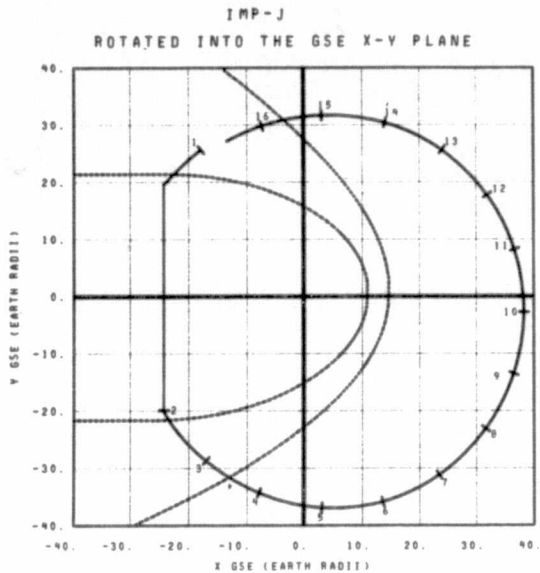


INTERPRETATION OF TIME CODE-NUMBERS

1 - 1976/301/ 1.00H	R= 31.6R _E	11 - 1976/307/ 7.00H	R= 38.9R _E
2 - 1976/301/ 21.00H	R= 31.6R _E	12 - 1976/308/ 4.00H	R= 38.9R _E
3 - 1976/302/ 9.00H	R= 32.0R _E	13 - 1976/309/ 1.00H	R= 38.3R _E
4 - 1976/303/ 5.00H	R= 33.1R _E	14 - 1976/309/ 13.00H	R= 37.7R _E
5 - 1976/303/ 20.00H	R= 34.2R _E	15 - 1976/310/ 6.00H	R= 36.6R _E
6 - 1976/304/ 7.00H	R= 35.1R _E	16 - 1976/310/ 24.00H	R= 35.2R _E
7 - 1976/305/ 2.00H	R= 36.5R _E	17 - 1976/311/ 9.00H	R= 34.4R _E
8 - 1976/305/ 11.00H	R= 37.2R _E	18 - 1976/312/ 3.00H	R= 32.9R _E
9 - 1976/306/ 8.00H	R= 38.1R _E	19 - 1976/312/ 17.00H	R= 32.0R _E
10 - 1976/306/ 18.00H	R= 38.4R _E	20 - 1976/313/ 6.00H	R= 31.3R _E

TIME AS YEAR/DAY/HOUR
R IS GEOCENTRIC DISTANCE IN EARTH RADII
TIME INTERVAL OF PLOT 1976/306/24.00H TO 1976/313/ 6.00H

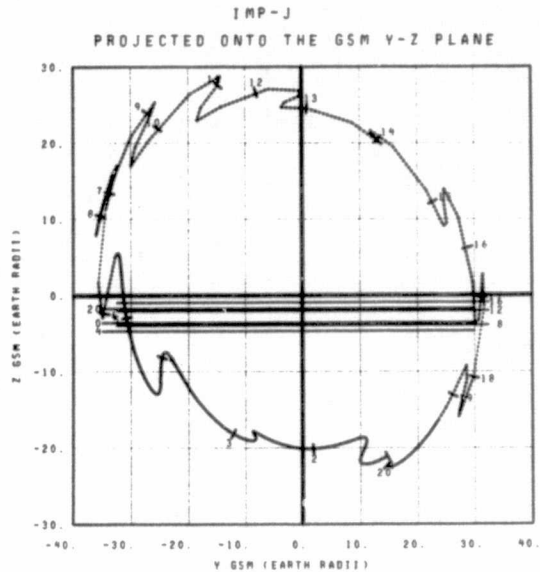




INTERPRETATION OF TIME CODE-NUMBERS

1 - 1974/313/ 7.00H	LAT = -29.4	11 - 1974/321/ 15.00H	LAT = 38.5
2 - 1974/314/ 13.00H	LAT = -39.3	12 - 1974/322/ 4.00H	LAT = 34.4
3 - 1974/315/ 22.00H	LAT = -26.1	13 - 1974/323/ 19.00H	LAT = 24.9
4 - 1974/316/ 18.00H	LAT = -11.4	14 - 1974/324/ 12.00H	LAT = 14.9
5 - 1974/317/ 15.00H	LAT = 3.9	15 - 1974/324/ 6.00H	LAT = -1.2
6 - 1974/318/ 11.00H	LAT = 17.0	16 - 1974/324/ 23.00H	LAT = -17.4
7 - 1974/319/ 8.00H	LAT = 27.5		
8 - 1974/319/ 23.00H	LAT = 34.7		
9 - 1974/320/ 13.00H	LAT = 38.4		
10 - 1974/321/ 2.00H	LAT = 39.7		

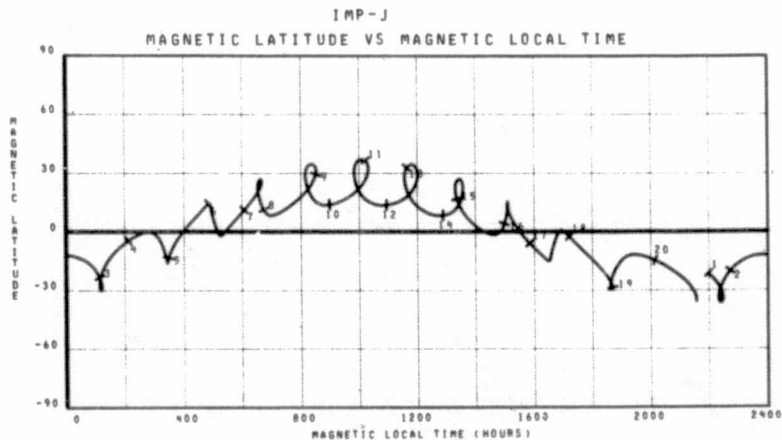
TIME AS YEAR/DAY/HOUR
LAT IS GSE LATITUDE IN DEGREES
TIME INTERVAL OF PLOT 1974/313/ 6.00H TO 1974/325/12.00H



INTERPRETATION & TIME CODE-NUMBERS

1 - 1974/313/ 7.00H	R = 31.3Rg	11 - 1974/319/ 14.00H	R = 39.1Rg
2 - 1974/314/ 4.00H	R = 31.1Rg	12 - 1974/320/ 5.00H	R = 39.0Rg
3 - 1974/315/ 1.00H	R = 31.6Rg	13 - 1974/321/ 2.00H	R = 38.3Rg
4 - 1974/315/ 14.00H	R = 32.7Rg	14 - 1974/321/ 16.00H	R = 37.9Rg
5 - 1974/316/ 5.00H	R = 34.0Rg	15 - 1974/322/ 7.00H	R = 36.2Rg
6 - 1974/316/ 20.00H	R = 35.3Rg	16 - 1974/323/ 4.00H	R = 34.2Rg
7 - 1974/317/ 7.00H	R = 36.3Rg	17 - 1974/323/ 17.00H	R = 33.0Rg
8 - 1974/318/ 1.00H	R = 37.7Rg	18 - 1974/324/ 6.00H	R = 31.8Rg
9 - 1974/318/ 8.00H	R = 38.1Rg	19 - 1974/325/ 2.00H	R = 30.4Rg
10 - 1974/319/ 3.00H	R = 38.9Rg	20 - 1974/325/ 12.00H	R = 30.3Rg

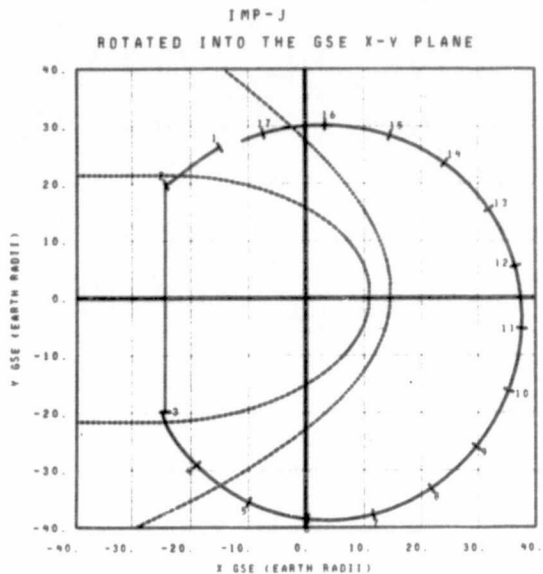
TIME AS YEAR/DAY/HOUR
R IS GEOCENTRIC DISTANCE IN EARTH RADII
TIME INTERVAL OF PLOT 1974/313/ 6.00H TO 1974/325/12.00H



INTERPRETATION OF TIME CODE-NUMBERS

1 - 1974/313/ 7.00H	R = 31.3Rg	8 - 1974/317/ 20.00H	R = 37.3Rg	15 - 1974/321/ 23.00H	R = 36.9Rg
2 - 1974/313/ 23.00H	R = 31.0Rg	9 - 1974/318/ 4.00H	R = 38.2Rg	16 - 1974/322/ 12.00H	R = 35.8Rg
3 - 1974/314/ 12.00H	R = 31.2Rg	10 - 1974/319/ 2.00H	R = 38.9Rg	17 - 1974/323/ 4.00H	R = 34.7Rg
4 - 1974/315/ 4.00H	R = 32.0Rg	11 - 1974/319/ 15.00H	R = 39.1Rg	18 - 1974/323/ 24.00H	R = 32.3Rg
5 - 1974/315/ 22.00H	R = 33.4Rg	12 - 1974/320/ 4.00H	R = 39.0Rg	19 - 1974/324/ 10.00H	R = 31.5Rg
6 - 1974/316/ 4.00H	R = 34.3Rg	13 - 1974/320/ 18.00H	R = 38.7Rg	20 - 1974/325/ 3.00H	R = 30.4Rg
7 - 1974/317/ 4.00H	R = 36.1Rg	14 - 1974/321/ 6.00H	R = 38.1Rg		

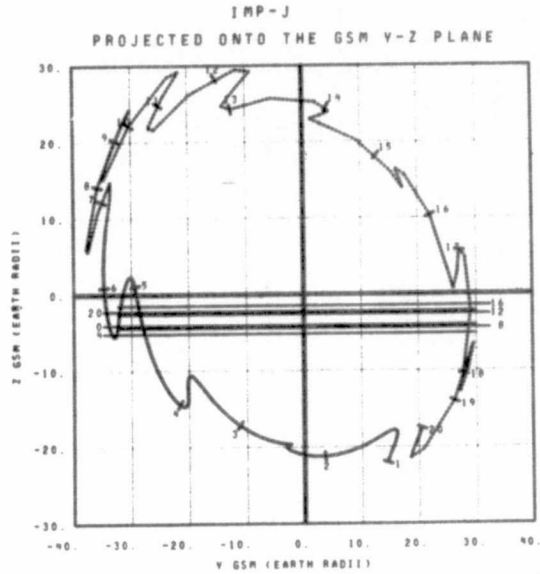
TIME AS YEAR/DAY/HOUR
TIME INTERVAL OF PLOT 1974/313/ 6.00H TO 1974/325/12.00H



INTERPRETATION OF TIME CODE-NUMBERS

1 - 1974/325/ 13.00H	LAT= -29.5	11 - 1974/333/ 12.00H	LAT= 39.4
2 - 1974/324/ 17.00H	LAT= -39.4	12 - 1974/334/ 1.00H	LAT= 36.8
3 - 1974/324/ 19.00H	LAT= -39.1	13 - 1974/334/ 15.00H	LAT= 30.9
4 - 1974/326/ 8.00H	LAT= -18.6	14 - 1974/335/ 7.00H	LAT= 20.6
5 - 1974/329/ 1.00H	LAT= -2.8	15 - 1974/335/ 24.00H	LAT= 8.2
6 - 1974/330/ 3.00H	LAT= 11.2	16 - 1974/336/ 18.00H	LAT= -11.4
7 - 1974/330/ 24.00H	LAT= 23.4	17 - 1974/337/ 10.00H	LAT= -26.7
8 - 1974/331/ 18.00H	LAT= 31.8		
9 - 1974/332/ 9.00H	LAT= 36.9		
10 - 1974/332/ 23.00H	LAT= 39.5		

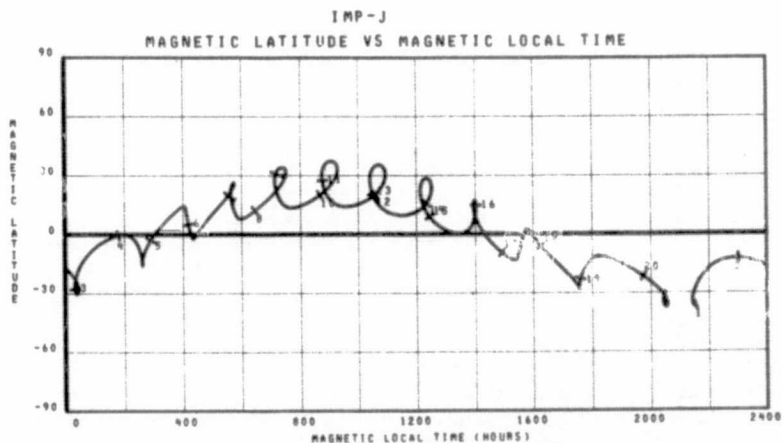
TIME AS YEAR/DAY/HOUR
LAT IS SGE LATITUDE IN DEGREES
TIME INTERVAL OF PLOT 1974/325/12.00H TO 1974/337/18.00H



INTERPRETATION OF TIME CODE-NUMBERS

1 - 1974/325/ 13.00H	R= 30.3RE	11 - 1974/331/ 17.00H	R= 39.4RE
2 - 1974/324/ 6.00H	R= 30.6RE	12 - 1974/332/ 6.00H	R= 39.4RE
3 - 1974/327/ 4.00H	R= 32.0RE	13 - 1974/332/ 24.00H	R= 38.7RE
4 - 1974/327/ 23.00H	R= 32.0RE	14 - 1974/333/ 18.00H	R= 38.1RE
5 - 1974/328/ 9.00H	R= 34.9RE	15 - 1974/334/ 6.00H	R= 34.3RE
6 - 1974/329/ 3.00H	R= 36.6RE	16 - 1974/335/ 4.00H	R= 34.0RE
7 - 1974/329/ 15.00H	R= 37.6RE	17 - 1974/335/ 20.00H	R= 32.3RE
8 - 1974/330/ 4.00H	R= 38.5RE	18 - 1974/336/ 8.00H	R= 31.1RE
9 - 1974/330/ 16.00H	R= 39.2RE	19 - 1974/337/ 4.00H	R= 29.8RE
10 - 1974/331/ 4.00H	R= 39.5RE	20 - 1974/337/ 18.00H	R= 29.4RE

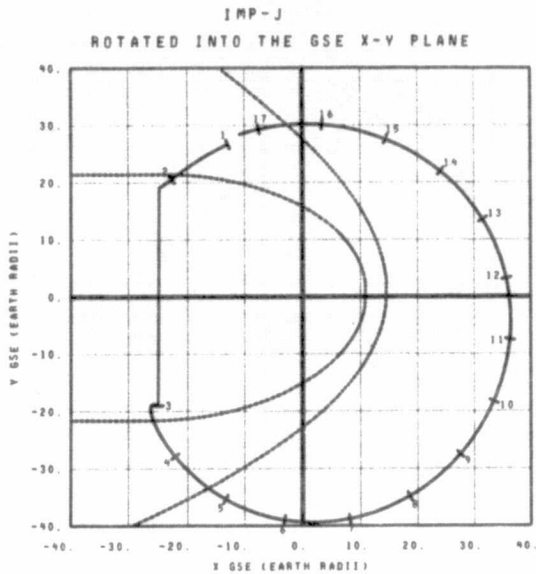
TIME AS YEAR/DAY/HOUR
R IS GEOCENTRIC DISTANCE IN EARTH RADII
TIME INTERVAL OF PLOT 1974/325/12.00H TO 1974/337/18.00H



INTERPRETATION OF TIME CODE-NUMBERS

1 - 1974/325/ 13.00H	R= 30.3RE	8 - 1974/330/ 2.00H	R= 38.4RE	15 - 1974/334/ 1.00H	R= 36.8RE
2 - 1974/324/ 6.00H	R= 30.6RE	9 - 1974/330/ 15.00H	R= 38.1RE	16 - 1974/334/ 15.00H	R= 36.8RE
3 - 1974/324/ 19.00H	R= 31.3RE	10 - 1974/331/ 5.00H	R= 39.5RE	17 - 1974/335/ 9.00H	R= 33.9RE
4 - 1974/327/ 4.00H	R= 32.2RE	11 - 1974/331/ 19.00H	R= 39.4RE	18 - 1974/336/ 1.00H	R= 33.9RE
5 - 1974/328/ 1.00H	R= 34.0RE	12 - 1974/332/ 7.00H	R= 39.4RE	19 - 1974/336/ 15.00H	R= 30.9RE
6 - 1974/329/ 3.00H	R= 36.6RE	13 - 1974/332/ 22.00H	R= 38.8RE	20 - 1974/337/ 5.00H	R= 29.4RE
7 - 1974/329/ 15.00H	R= 37.6RE	14 - 1974/333/ 9.00H	R= 38.1RE		

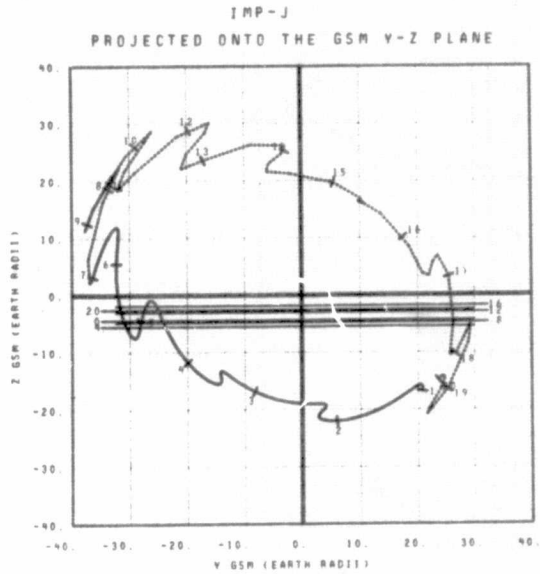
TIME AS YEAR/DAY/HOUR
TIME INTERVAL OF PLOT 1974/325/12.00H TO 1974/337/18.00H



INTERPRETATION OF TIME CODE-NUMBERS

1 - 1976/337/ 19.00H	LAT= -33.6	11 - 1976/345/ 18.00H	LAT= 38.3
2 - 1976/338/ 16.00H	LAT= -39.5	12 - 1976/346/ 7.00H	LAT= 34.0
3 - 1976/339/ 1.00H	LAT= -37.2	13 - 1976/347/ 22.00H	LAT= 25.7
4 - 1976/340/ 16.00H	LAT= -11.9	14 - 1976/347/ 15.00H	LAT= 12.5
5 - 1976/341/ 15.00H	LAT= 9.2	15 - 1976/348/ 9.00H	LAT= -4.5
6 - 1976/342/ 12.00H	LAT= 17.3	16 - 1976/349/ 2.00H	LAT= -21.1
7 - 1976/343/ 8.00H	LAT= 27.9	17 - 1976/349/ 17.00H	LAT= -33.2
8 - 1976/344/ 1.00H	LAT= 34.8		
9 - 1976/344/ 16.00H	LAT= 38.7		
10 - 1976/345/ 5.00H	LAT= 39.8		

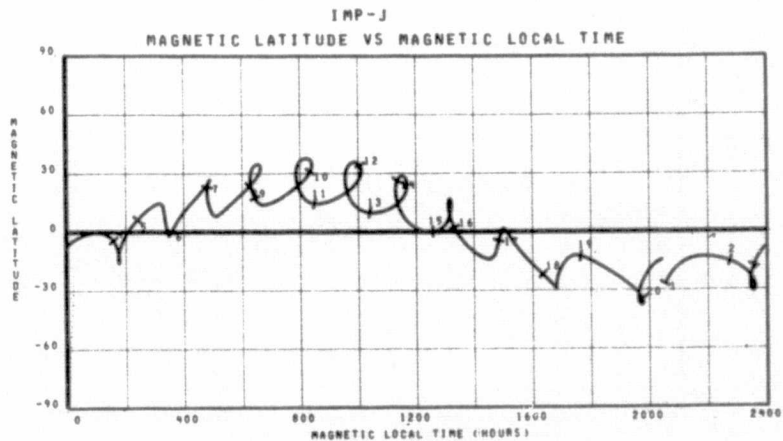
TIME AS YEAR/DAY/HOUR
LAT IS GSE LATITUDE IN DEGREES
TIME INTERVAL OF PLOT 1976/337/18.00H TO 1976/349/24.00H



INTERPRETATION OF TIME CODE-NUMBERS

1 - 1976/337/ 19.00H	R= 29.7RE	11 - 1976/343/ 21.00H	R= 39.5RE
2 - 1976/338/ 8.00H	R= 30.1RE	12 - 1976/344/ 7.00H	R= 39.3RE
3 - 1976/339/ 6.00H	R= 31.9RE	13 - 1976/345/ 2.00H	R= 38.3RE
4 - 1976/340/ 3.00H	R= 34.2RE	14 - 1976/345/ 13.00H	R= 37.5RE
5 - 1976/340/ 17.00H	R= 35.7RE	15 - 1976/346/ 6.00H	R= 35.9RE
6 - 1976/341/ 6.00H	R= 37.0RE	16 - 1976/347/ 5.00H	R= 33.6RE
7 - 1976/341/ 20.00H	R= 38.1RE	17 - 1976/348/ 2.00H	R= 31.6RE
8 - 1976/342/ 7.00H	R= 38.8RE	18 - 1976/348/ 14.00H	R= 30.8RE
9 - 1976/342/ 20.00H	R= 39.4RE	19 - 1976/349/ 4.00H	R= 30.2RE
10 - 1976/343/ 7.00H	R= 39.6RE	20 - 1976/349/ 24.00H	R= 30.5RE

TIME AS YEAR/DAY/HOUR
R IS GEOCENTRIC DISTANCE IN EARTH RADII
TIME INTERVAL OF PLOT 1976/337/18.00H TO 1976/349/24.00H



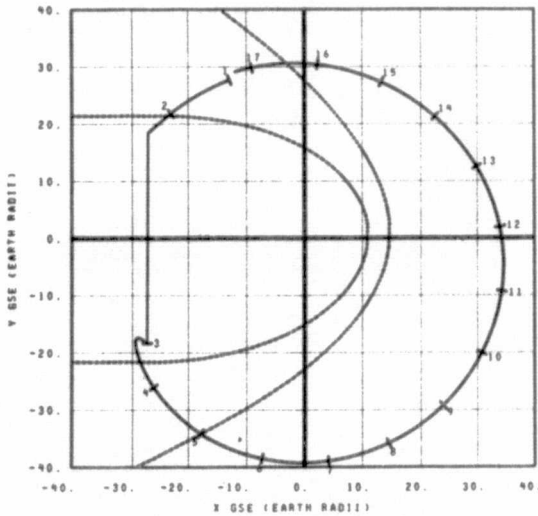
INTERPRETATION OF TIME CODE-NUMBERS

1 - 1976/337/ 19.00H	R= 29.7RE	8 - 1976/342/ 8.00H	R= 38.7RE	15 - 1976/346/ 6.00H	R= 35.9RE
2 - 1976/338/ 8.00H	R= 30.0RE	9 - 1976/342/ 20.00H	R= 39.4RE	16 - 1976/347/ 5.00H	R= 33.6RE
3 - 1976/338/ 22.00H	R= 31.1RE	10 - 1976/343/ 8.00H	R= 39.4RE	17 - 1976/348/ 2.00H	R= 31.6RE
4 - 1976/339/ 10.00H	R= 32.3RE	11 - 1976/344/ 1.00H	R= 37.5RE	18 - 1976/348/ 14.00H	R= 30.8RE
5 - 1976/340/ 3.00H	R= 34.2RE	12 - 1976/344/ 12.00H	R= 38.1RE	19 - 1976/349/ 4.00H	R= 30.2RE
6 - 1976/340/ 17.00H	R= 35.7RE	13 - 1976/345/ 2.00H	R= 38.3RE	20 - 1976/349/ 24.00H	R= 30.5RE
7 - 1976/341/ 6.00H	R= 37.0RE	14 - 1976/345/ 13.00H	R= 37.5RE		

TIME AS YEAR/DAY/HOUR
TIME INTERVAL OF PLOT 1976/337/18.00H TO 1976/349/24.00H

IMP-J

ROTATED INTO THE GSE X-Y PLANE



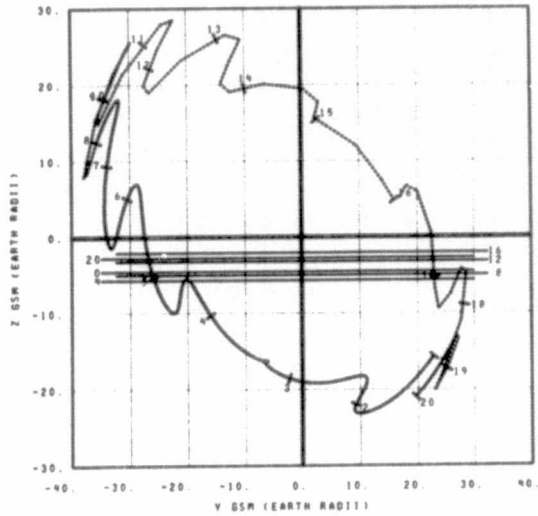
INTERPRETATION OF TIME CODE-NUMBERS

1 - 1974/350/ 1.00H	LAT= -37.5	11 - 1974/359/ 1.00H	LAT= 34.4
2 - 1974/350/ 20.00H	LAT= -38.9	12 - 1974/359/ 15.00H	LAT= 29.8
3 - 1974/351/ 9.00H	LAT= -33.7	13 - 1974/359/ 7.00H	LAT= 18.1
4 - 1974/353/ 2.00H	LAT= -6.2	14 - 1974/360/ 1.00H	LAT= 1.1
5 - 1974/354/ 1.00H	LAT= 9.2	15 - 1974/360/ 10.00H	LAT= -16.2
6 - 1974/354/ 22.00H	LAT= 21.7	16 - 1974/361/ 9.00H	LAT= -29.5
7 - 1974/355/ 18.00H	LAT= 31.5	17 - 1974/361/ 24.00H	LAT= -38.1
8 - 1974/356/ 9.00H	LAT= 37.0		
9 - 1974/356/ 23.00H	LAT= 39.8		
10 - 1974/357/ 12.00H	LAT= 39.7		

TIME AS YEAR/DAY/HOUR
LAT IS GSE LATITUDE IN DEGREES
TIME INTERVAL OF PLOT 1974/349/24.00H TO 1974/362/ 6.00H

IMP-J

PROJECTED ONTO THE GSM Y-Z PLANE



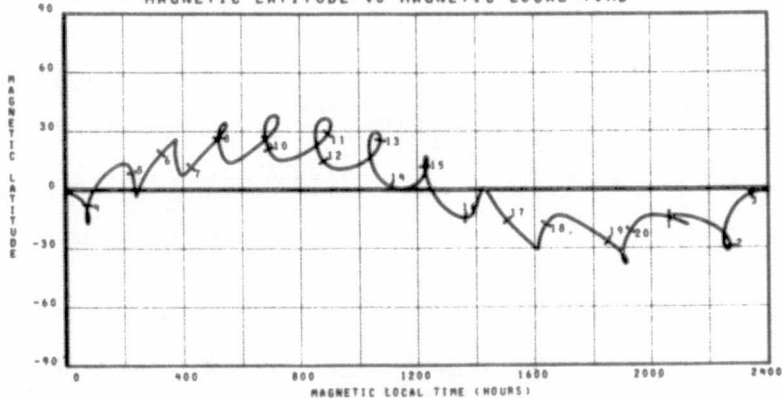
INTERPRETATION OF TIME CODE-NUMBERS

1 - 1974/350/ 1.00H	R= 30.5RE	11 - 1974/356/ 6.00H	R= 38.7RE
2 - 1974/350/ 14.00H	R= 31.3RE	12 - 1974/356/ 18.00H	R= 38.1RE
3 - 1974/351/ 7.00H	R= 32.7RE	13 - 1974/357/ 7.00H	R= 37.2RE
4 - 1974/352/ 6.00H	R= 35.0RE	14 - 1974/358/ 2.00H	R= 35.4RE
5 - 1974/353/ 3.00H	R= 37.0RE	15 - 1974/358/ 21.00H	R= 33.4RE
6 - 1974/353/ 15.00H	R= 37.9RE	16 - 1974/359/ 12.00H	R= 31.9RE
7 - 1974/354/ 5.00H	R= 38.7RE	17 - 1974/360/ 7.00H	R= 30.6RE
8 - 1974/354/ 17.00H	R= 39.1RE	18 - 1974/361/ 3.00H	R= 30.3RE
9 - 1974/355/ 5.00H	R= 39.3RE	19 - 1974/361/ 16.00H	R= 30.7RE
10 - 1974/355/ 18.00H	R= 39.1RE	20 - 1974/362/ 6.00H	R= 31.6RE

TIME AS YEAR/DAY/HOUR
R IS GEOCENTRIC DISTANCE IN EARTH RADII
TIME INTERVAL OF PLOT 1974/349/24.00H TO 1974/362/ 6.00H

IMP-J

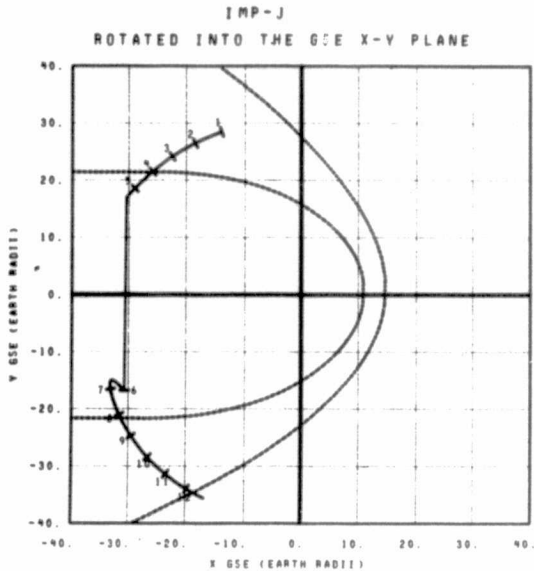
MAGNETIC LATITUDE VS MAGNETIC LOCAL TIME



INTERPRETATION OF TIME CODE-NUMBERS

1 - 1974/350/ 1.00H	R= 30.5RE	8 - 1974/359/ 15.00H	R= 39.0RE	15 - 1974/359/ 20.00H	R= 33.5RE
2 - 1974/350/ 12.00H	R= 31.1RE	9 - 1974/359/ 5.00H	R= 39.3RE	16 - 1974/359/ 7.00H	R= 32.4RE
3 - 1974/351/ 2.00H	R= 32.2RE	10 - 1974/359/ 20.00H	R= 39.1RE	17 - 1974/360/ 12.00H	R= 32.4RE
4 - 1974/352/ 2.00H	R= 34.2RE	11 - 1974/356/ 8.00H	R= 38.7RE	18 - 1974/360/ 17.00H	R= 38.3RE
5 - 1974/352/ 11.00H	R= 35.5RE	12 - 1974/356/ 23.00H	R= 37.8RE	19 - 1974/361/ 5.00H	R= 38.4RE
6 - 1974/353/ 12.00H	R= 37.1RE	13 - 1974/357/ 11.00H	R= 38.3RE	20 - 1974/361/ 20.00H	R= 36.4RE
7 - 1974/353/ 24.00H	R= 38.4RE	14 - 1974/358/ 3.00H	R= 39.3RE		

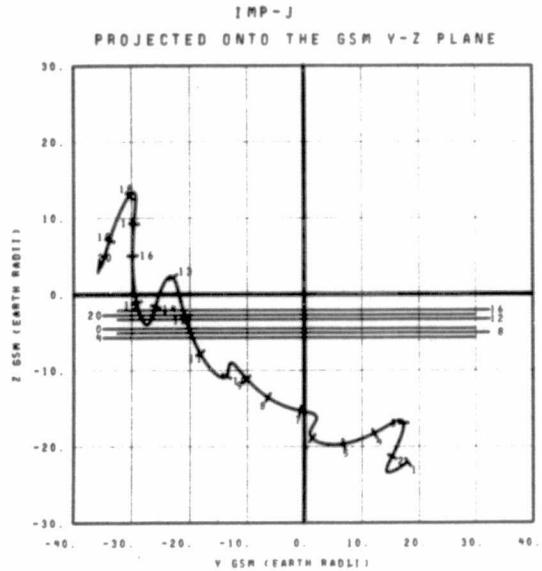
TIME AS YEAR/DAY/HOUR
TIME INTERVAL OF PLOT 1974/349/24.00H TO 1974/362/ 6.00H



INTERPRETATION OF TIME CODE-NUMBERS

1 - 1974/342/ 7.00H LAT= -39.0	11 - 1974/366/ 9.00H LAT= 11.7
2 - 1974/342/ 14.00H LAT= -39.0	12 - 1974/366/ 16.00H LAT= 16.5
3 - 1974/342/ 21.00H LAT= -38.5	
4 - 1974/343/ 4.00H LAT= -34.0	
5 - 1974/343/ 12.00H LAT= -32.0	
6 - 1974/343/ 18.00H LAT= -28.6	
7 - 1974/344/ 1.00H LAT= -13.7	
8 - 1974/345/ 4.00H LAT= -9.0	
9 - 1974/345/ 15.00H LAT= 1.0	
10 - 1974/345/ 24.00H LAT= 6.7	

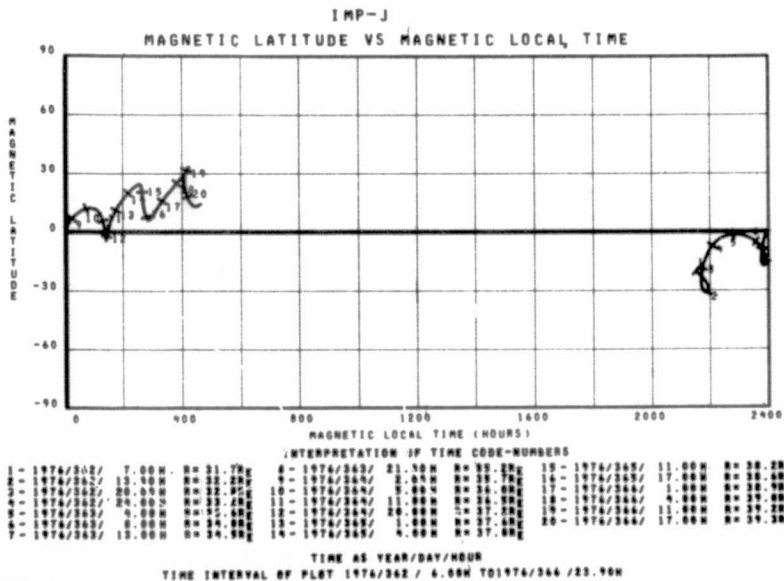
TIME AS YEAR/DAY/HOUR
LAT IS GSE LATITUDE IN DEGREES
TIME INTERVAL OF PLOT 1974/342/ 6.00H TO 1974/366/23.90H



INTERPRETATION OF TIME CODE-NUMBERS

1 - 1974/342/ 7.00H R= 31.7RE	11 - 1974/365/ 3.00H R= 37.7RE
2 - 1974/342/ 15.00H R= 32.9RE	12 - 1974/365/ 4.00H R= 37.9RE
3 - 1974/342/ 21.00H R= 32.9RE	13 - 1974/365/ 11.00H R= 38.2RE
4 - 1974/343/ 3.00H R= 33.5RE	14 - 1974/365/ 18.00H R= 38.6RE
5 - 1974/343/ 6.00H R= 33.8RE	15 - 1974/366/ 2.00H R= 38.9RE
6 - 1974/343/ 11.00H R= 34.3RE	16 - 1974/366/ 5.00H R= 39.0RE
7 - 1974/344/ 1.00H R= 35.6RE	17 - 1974/366/ 7.00H R= 39.1RE
8 - 1974/344/ 9.00H R= 36.5RE	18 - 1974/366/ 13.00H R= 39.2RE
9 - 1974/344/ 8.00H R= 36.2RE	19 - 1974/366/ 18.00H R= 39.3RE
10 - 1974/344/ 20.00H R= 37.2RE	20 - 1974/366/ 23.00H R= 39.3RE

TIME AS YEAR/DAY/HOUR
R IS GEOCENTRIC DISTANCE IN EARTH RADII
TIME INTERVAL OF PLOT 1974/342/ 6.00H TO 1974/366/23.90H



ORIGINAL PAGE IS
OF POOR QUALITY