#430

RADSAT

1 DEGREE LATITUDE-LONGITUDE

SORT, TRAPPED PARTICLES

72-076B-01A

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1 DEG. LAT-LONG SORT OF TRAPPED PARTICLES

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THIS DATA SET HAS BEEN RESTORED. IT ORIGINALLY CONTAINED ONE 9-TRACK, 1600 BPI TAPE WRITTEN IN BINARY. THERE IS ONE RESTORED TAPE. THE DR TAPE IS A 3480 CARTRIDGE AND THE DS TAPE IS 9-TRACK, 6250 BPI. THE ORIGINAL TAPE WAS CREATED ON A CDC 6600 COMPUTER AND WAS RESTORED ON AN IBM 9021 COMPUTER. THE TIME SPAN IS NOT IN THE FORMAT OR ON THE TAPE ITSELF. THE DR AND DS NUMBER ALONG WITH THE CORRESPONDING D NUMBER AND TIME SPAN IS AS FOLLOWS:

DR#	DS#	D#	FILES	TIME SPAN
DR005879	DS005879	D031991	5	10/02/72 - 02/28/73

REQ. AGENT	RAND NO.	ACQ. AGENT
CMP	RD0812	DMS

RADSAT

1 DEG. LAT-LONG SORT OF TRAPPED PARTICLES

72-076B-01A

This data set contains 1 data tape. It is a 9 track, binary, 1600 BPI tape with 5 files. It was created on a CDC computer. The time span is not in the format or on the tape itself.

D#	C#	TIME COVERAGE
D-31991	C-20126	10/02/72 - 02/28/73

Data Set Description:

The S72-1 "One-Degree Latitude-Longitude sort" data set is basically a sequential file containing 15600 logical records of 32 words each. Word thirty-two of each record is an index defining its relative position in the data set (ie the logical records were numbered from one to 15600). Each of the records corresponds to a one degree square of latitude and longitude. The following two fortran statements serve to define and illustrate this relationship;

```
XLAT=FLOAT(MOD(INDX-1),80) -69.5
XLONG=(INDX-1)/80 -139.5
```

where

XLAT is north geographic latitude

XLONG is east geographic longitude

INDX is the contents of word 32

FLOAT and MOD are standard fortran functions.

Hence INDX defines a one-to-one mapping of the data set onto the latitude longitude region $-70.0^{\circ} \leq$ XLAT $\leq 10.0^{\circ}$ north, $-140.0^{\circ} \leq$ XLONG $\leq 55.0^{\circ}$ east.

Pitch Angle and Energy Structure:

The first 30 words of a logical record correspond to the pitch angle intervals of width two degrees (90.0° - 88.0°) through (32.0° - 30.0°) respectively. Word thirty-one corresponds to the interval (30.0° - 0.0°). Each word contains six values in a packed format. The first five are the total observed counts for the five energy bins (45.0 Mev - 28.0 Mev), (28.0 - 18.2), (18.2 - 12.2), (12.2 - 7.0), (7.0 - 5.0). The sixth value is the total number of observations for that pitch angle interval and that latitude - longitude square. Each observation was of 0.08 seconds duration. The five counts were

packed into nine consecutive bits each beginning at the left-most bit of the sixty bit CDC word and the number of observations was packed into the remaining fifteen bits.

Tape Version:

Since word 32 of each logical record identifies its place in the data set, the logical records where there were no observations could be dropped from the file to give a more compact version. This file was then blocked fifteen logical records per physical record with two prefix integers added to give an "auto-indexing" file and written to tape. All short records were blank filled to give a uniform 482 word block structure.

The tape VETTE3 contains five identical copies in this format to give a built in redundancy which should assure its readability.

Tape Description: Title: VETTE3

Tape type: 9-track; unlabeled

Density: ~~1600~~ 6250 BPI; phase encoded

Creation date: 23 May 78

Programmer: E. Holeman

No. of files: five

No. of records/file: app. 670

no of words/record: 482

Description of Contents:

VETTE3 contains five identical copies of the S72-1 "One-Degree Latitude Longitude sort" data set. Each copy contains ND + NB physical records where ND is the number of data records and NB is the number of "bookkeeping" records which identify the orbits making up the data set.

Record Structure:

All records, with the possible exception of records No. ND and ND + NB, have the basic structure:

IWORDS,JCOLS,((MATRIX(I,J),I=1,IWORDS),J=1,JCOLS)

where IWORDS = 32, JCOLS = 15 for the data records and IWORDS = 4, JCOLS = 120 for the bookkeeping records. Records ND and ND + NB may have a smaller value for JCOLS, and if so are blank filled to give a 482 word physical record.

Comments on Program OMSDJT.

Program OMSDJT is included in this package as an aide to your initial interpretation of the tape VETTE3. It reads each of the five copies of the data set and produces an identical output record for each consisting of an Omnidirectional Flux vs Latitude - Longitude table plus three check-sum tables confirming that all five copies are probably identical.

OMSDJT is CDC dependent and intended as an illustration only, hence no attempt was made to reduce it to ANSI standard fortran and no card deck copy was included in this package. Its comment sections are sparce but hopefully they will prove adequate. Internally, there are calls to four CDC system routines, OPENMS, READMS,WRITMS, AND ISBYTX. The first three form a random file system on the CDC mass storage disk. ISBYTX is the system bit manipulation routine which we use to pack and unpack the data in subroutine AADD. The interpretation of their usage is straight forward and should be apparent in context.

Flux Calculations.

The constants FXK1 and FXK2 are two constants required to compute flux rates from the data. FXK1 is the reciprical of the product of the instruments geometric factor and the time increment correspoiding to a single observation. (G = 0.0257 cm^2 ster and delta T = .08 sec) FXK2 is defined in terms of FXK1 in the program. We then define directional and omnidirectional flux for the kth energy channel to be:

$$Jdir = FXK1*(ND_k/NDOB_k)/DE_k$$

$$Jomni = FXK2*(NO_k/NOOB_k)/DE_k$$

where ND_k is the number of counts in the first pitch angle interval (90.0° - 88.0°), NO_k is the sum of the counts over all 31 pitch angle intervals, $NDOB_k$ is the number of observations for the first pitch angle interval, $NOOB_k$ is the sum of observations over all 31 pitch angles, and DE_k is the appropriate delta-Energy. Note that the enclosed Omnidirectional Flux Tables are not complete in the sense that "latitude lines" where there were observations but no counts were deleted. Hence a sum over the number of observations column will not necessarily agree with the number in the one page Longitude Summary at the end.

```
      PROGRAM OMSDJT(UFILE,TAPE8,OUTPUT,TAPE1=UFILE,TAPE6=
     +OUTPUT)
C*****************************************************************
C*****
C  1978   PROGRAM.  E. HOLEMAN.  LAST ALTERATION  23 MAY 78
C  1978   THIS PROGRAM WAS WRITTEN AS PART OF THE DOCUMENTATION
C  1978   PACKAGE BEING PREPARED FOR TRANSMISSION TO VETTE
C         AND A COPY OF IT WILL ACCOMPANY THE TAPE CONTAINING
C         THE S72-1 ONE DEGREE LATITUDE LONGITUDE PITCH-ANGLE
C         SORTED DATA.
C*****
C  PROGRAM COMPACTS THE 1 DEGREE LATITUDE - LONGITUDE SORTED
C  DATA FILE INTO A 5 DEGREE FORMAT AND LISTS VARIOUS SUMMARIES.
C
C  ITS PURPOSE IS TO PRODUCE A SET OF CHECK-SUM TYPE SUMMARIES
C  WHICH MAY BE USED TO DETERMINE WHETHER THE ONE-DEGREE TAPE
C  HAS BEEN READ SUCCESSFULLY AND THE DATA UNPACKED PROPERLY.
C*****
C  APPROXIMATE FIELD LENGTH REQUIRED IS 43600 WORDS.
C*****
C*****************************************************************
C*****
      DIMENSION JDT(32,15),IRF(32,16),INDX(40),FX(6),DFX(6),DE(6),
     +JADD(5),IADD(5),KSY(7,31),LSY(7,16),MSY(7),NSY(7,2),MSYA(7)
      DATA DE /17.,9.5,6.,5.2,2.,46./
      PI=3.14159265+
      FXK1=466.3613
      FXK2=4.*PI*(PI/2.)*FXK1
      NFIL=0
      REWIND1
      CALL OPENMS(8,INDX,40,0)
 230  CONTINUE
      DO 240 II=1,16
      DO 240 JJ=1,32
      IRF(JJ,II)=0
 240  CONTINUE
      DO 10 II=1,39
      CALL WRITMS(8,IRF,512,II,-1)
 10   CONTINUE
      JJL=39
      T1=SECOND(TTI)
      ADTT=DATE(ZZZ)
      ATIM=TIME(ZZZ)
      NFIL=NFIL+1
      WRITE(6,2001) ADTT,ATIM,NFIL
 2001 FORMAT(1H1,4X,*S72-1 PROCESSING BEGUN IN OMSDJ*,5X,A10,5X,
     +A10,*  FILE NO.*,I3)
C
C*****
C  READ UFILE DATA AND COPY TO RANDOM FILE.
C*****
      IFGA=0
      IFGO=0
 20   CONTINUE
      READ(1) T1,T2,JDT
      IF(EOF(1)) 70,30
 30   CONTINUE
```

```
      ICK=I1*I2
      IF(ICK.LT.4.OR.ICK.GT.480) GO TO 20
      IFGA=0
      IFGC=1
      IF(I1.NE.32) GO TO 20
      DO 60 II=1,I2
      IF(JDT(32,II).LT.1.OR.JDT(32,II).GT.15600) GO TO 60
      II1=(JDT(32,II)-1)/400+1
      IF(II1.NE.JJL) CALL WRITMS(8,IRF,512,JJL,-1)
      IF(II1.NE.JJL) CALL READMS(8,IRF,512,II1)
      JJL=II1
      II2=MOD(JDT(32,II)-1,80)/5+1
      DO 50 JJ=1,31
      CALL DADD(IRF(JJ,II2),IADD,NOBS)
      CALL DADD(JDT(JJ,II),JADD,MOBS)
      DO 40 KK=1,5
      IADD(KK)=IADD(KK)+JADD(KK)
   40 CONTINUE
      NOBS=NOBS+MOBS
      CALL AADD(IRF(JJ,II2),IADD,NOBS)
   50 CONTINUE
      IRF(32,II2)=(II1-1)*16+II2
   60 CONTINUE
      GO TO 20
   70 CONTINUE
      IFGA=IFGA+1
      IF(IFGA.EQ.3) GO TO 250
      IF(IFGC.EQ.0) GO TO 20
C
C*****
C  INPUT COMPLETE.  GENERATE SUMMARIES.
C  PRINT OUT FLUX VS PITCH-ANGLE TABLE FOR EACH LAT-LONG
C*****
      CALL WRITMS(8,IRF,512,JJL,-1)
      DO 110 II=1,39
      MSY(1)=MSY(2)=MSY(3)=MSY(4)=MSY(5)=MSY(6)=MSY(7)=0
      CALL READMS(8,IRF,512,II)
      XLG=FLOAT(5*II)+217.5
      IF(XLG.GT.360.) XLG=XLG-360.
      IFGB=1
      DO 110 JJ=1,16
      IF(IRF(32,JJ).LT.1) GO TO 110
      XLT=-72.5+FLOAT(5*JJ)
      IF(IFGB.EQ.1) WRITE(6,2002) XLG
 2002 FORMAT(///1X,*OMNIDIRECTIONAL FLUX SUMMARY VS LATITUDE FOR*
     +* LONGITUDE=*,F7.1/* LAT + 5 ENERGIES WITH RMS ERROR + NO OF*
     +* OBS + LINE TOTALS*)
      IFGB=0
      MSYA(1)=MSYA(2)=MSYA(3)=MSYA(4)=MSYA(5)=MSYA(6)=MSYA(7)=0
      DO 90 KK=1,31
      CALL DADD(IRF(KK,JJ),IADD,NOBS)
      DO 80 LL=1,5
      MSY(6)=MSY(6)+IADD(LL)
      MSY(LL)=MSY(LL)+IADD(LL)
      MSYA(6)=MSYA(6)+IADD(LL)
      MSYA(LL)=MSYA(LL)+IADD(LL)
   80 CONTINUE
```

```
      MSY(7)=MSY(7)+NOBS
      MSYA(7)=MSYA(7)+NOBS
 90   CONTINUE
      DO 100 KK=1,6
      DFX(KK)=0.
      FX(KK)=FLOAT(MSYA(KK))/DE(KK)/FLOAT(MSYA(7))*FXK2
      IF(MSYA(KK).LT.1) GO TO 100
      DFX(KK)=FX(KK)/SQRT(FLOAT(MSYA(KK)))
 100  CONTINUE
      WRITE(6,2003) XLT,(FX(I),DFX(I),I=1,5),MSYA(7),FX(6),DFX(6)
 2003 FORMAT(1X,F5.1,5(F8.2,F6.2),I6,F8.2,F6.2)
 110  CONTINUE
C
C*****
C  WRITE SUMMARY OF LONGITUDE DISTRIBUTION.
C  DO THE CROSS SUMMING FOR PITCH ANGLE AND LATITUDE SUMMARIES.
C*****
      WRITE(6,2001) ADTT,ATIM,NFIL
      WRITE(6,2004)
 2004 FORMAT(1X,*LONGITUDE SUMMARY*/1X,*LONG + 5 ENERGIES + *
     +*NO OF OBS + LINE TOTAL*)
      DO 120 II=1,7
      DO 120 JJ=1,31
      KSY(II,JJ)=0
      IF(JJ.GT.16) GO TO 120
      LSY(II,JJ)=0
 120  CONTINUE
      NSY(1,2)=NSY(2,2)=NSY(3,2)=NSY(4,2)=NSY(5,2)=NSY(6,2)=NSY(7,2)=0
      DO 150 II=1,39
      XL=FLOAT(II*5)+217.5
      IF(XL.GT.360.) XL=XL-360.
      CALL READMS(8,IRF,512,II)
      NSY(1,1)=NSY(2,1)=NSY(3,1)=NSY(4,1)=NSY(5,1)=NSY(6,1)=NSY(7,1)=0
      DO 140 JJ=1,16
      IF(IRF(32,JJ).LT.0) GO TO 140
      DO 130 KK=1,31
      CALL DADD(IRF(KK,JJ),IADD,NOBS)
      KSY(5,KK)=KSY(6,KK)+NOBS
      LSY(5,JJ)=LSY(6,JJ)+NOBS
      NSY(5,1)=NSY(6,1)+NOBS
      DO 130 LL=1,5
      KSY(LL,KK)=KSY(LL,KK)+IADD(LL)
      LSY(LL,JJ)=LSY(LL,JJ)+IADD(LL)
      NSY(LL,1)=NSY(LL,1)+IADD(LL)
      NSY(7,1)=NSY(7,1)+IADD(LL)
 130  CONTINUE
 140  CONTINUE
      IF(NSY(6,1).LT.1) GO TO 160
      WRITE(6,2005) XL,(NSY(I,1),I=1,7)
 2005 FORMAT(1X,F5.1,5I7,2I10)
      DO 150 KK=1,7
      NSY(KK,2)=NSY(KK,2)+NSY(KK,1)
 150  CONTINUE
 160  CONTINUE
      XL=0.
      WRITE(6,2005) XL,(NSY(I,2),I=1,7)
C
```

```
C*****
C  WRITE SUMMARY OF PITCH ANGLE DISTRIBUTION.
C*****
      WRITE(6,2001) ADTT,ATIM,NFIL
      WRITE(6,2006)
 2006 FORMAT(1X,*PITCH ANGLE SUMMARY*/1X,*PA + 5 ENERGIES + *
     +*NO OF OBS + LINE TOTAL*)
      DO 190 II=1,31
      DO 170 JJ=1,5
      KSY(7,II)=KSY(7,II)+KSY(JJ,II)
  170 CONTINUE
      ID=91-2*II
      WRITE(6,2007) ID,(KSY(I,II),I=1,7)
 2007 FORMAT(1X,I3,5I7,2I10)
      IF(II.EQ.1) GO TO 190
      DO 180 JJ=1,7
      KSY(JJ,1)=KSY(JJ,1)+KSY(JJ,II)
  180 CONTINUE
  190 CONTINUE
      ID=0
      WRITE(6,2007) ID,(KSY(I,1),I=1,7)
C
C*****
C  WRITE SUMMARY OF LATITUDE DISTRIBUTION
C*****
      WRITE(6,2001) ADTT,ATIM,NFIL
      WRITE(6,2008)
 2008 FORMAT(1X,*LAT SUMMARY*/1X,*LAT + 5 ENERGIES + NO OF OBS + *
     +*LINE TOTAL*)
      DO 220 II=1,16
      DO 200 JJ=1,5
      LSY(7,II)=LSY(7,II)+LSY(JJ,II)
  200 CONTINUE
      XL=FLOAT(II*5)-72.5
      IF(LSY(6,II).GT.0) WRITE(6,2005) XL,(LSY(I,II),I=1,7)
      IF(II.EQ.1) GO TO 220
      DO 210 JJ=1,7
      LSY(JJ,1)=LSY(JJ,1)+LSY(JJ,II)
  210 CONTINUE
  220 CONTINUE
      XL=0.
      WRITE(6,2005) XL,(LSY(I,1),I=1,7)
      T1=SECOND(TT)-T1
      WRITE(6,2009) T1
 2009 FORMAT(1X,*END OF FILE ON OMSDJ*/1X,*OMSDJ PROCESSING *
     +*TIME*,F10.3)
      GO TO 230
  250 CONTINUE
      END
```

C REFERENCE MAP (R=3)

```
      SUBROUTINE AADD(JCD,IADD,NADD)
C*****************************************************************
C*****
C  AADD IMPLIES ENCODE IADD,NADD INTO 1-WORD COMPOSITE
C*****
C  DADD IMPLIES DECODE 1-WORD COMPOSITE INTO IADD,NADD
C*****
C*****************************************************************
      DIMENSION IADD(5),JCD(2)
C*****
C  ENCODE 1-WORD COMPOSITE
C*****
      DO 10 II=1,4
      IF(IADD(II).GT.511) GO TO 20
 10   CONTINUE
      IF(IADD(5).GT.32767) GO TO 20
      JCD(1)=0B
      JCD(1)=ISBYTX(52,9,JCD(1),IADD(1))
      JCD(1)=ISBYTX(43,9,JCD(1),IADD(2))
      JCD(1)=ISBYTX(34,9,JCD(1),IADD(3))
      JCD(1)=ISBYTX(25,9,JCD(1),IADD(4))
      JCD(1)=ISBYTX(16,9,JCD(1),IADD(5))
      JCD(1)=ISBYTX(1,15,JCD(1),NADD)
      RETURN
C******
C  DECODE 1-WORD COMPOSITE
C****
      ENTRY DADD
      IADD(1)=IADD(2)=IADD(3)=IADD(4)=IADD(5)=0B
      IADD(1)=SHIFT(JCD(1),9).AND.777B
      IADD(2)=SHIFT(JCD(1).AND.77700000000000003,-42)
      IADD(3)=SHIFT(JCD(1).AND.77700000000000B,-33)
      IADD(4)=SHIFT(JCD(1).AND.77700000000B,-24)
      IADD(5)=SHIFT(JCD(1).AND.77700000B,-15)
      NADD=JCD(1).AND.77777B
      RETURN
 20   CONTINUE
      WRITE(6,2001)
 2001 FORMAT(1X,*AADD SUBROUTINE OVERFLOW*)
      RETURN
      END
```

REFERENCE MAP (R=3)

DEF LINE	REFERENCES	
1	24	
28	36	40

N TYPE	RELOCATION						
INTEGER	ARRAY	F.P.	REFS	9	14	16	18
			22	DEFINED	1	5*29	30
			34				
INTEGER			REFS	14	DEFINED	13	

OMNIDIRECTIONAL FLUX SUMMARY VS LATITUDE FOR LONGITUDE= 222.5
LAT + 5 ENERGIES WITH RMS ERROR + NO OF OBS + LINE TOTALS

-7.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9168	0.00	0.00
-2.5	0.00	0.00	.07	.07	.73	.19	0.00	0.00	0.00	0.00	14628	.07	.03
2.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10776	0.00	0.00

OMNIDIRECTIONAL FLUX SUMMARY VS LATITUDE FOR LONGITUDE= 227.5
LAT + 5 ENERGIES WITH RMS ERROR + NO OF OBS + LINE TOTALS

-12.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1596	0.00	0.00
-7.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14664	0.00	0.00
-2.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14784	0.00	0.00
2.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10128	0.00	0.00

OMNIDIRECTIONAL FLUX SUMMARY VS LATITUDE FOR LONGITUDE= 232.5
LAT + 5 ENERGIES WITH RMS ERROR + NO OF OBS + LINE TOTALS

-12.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7920	0.00	0.00
-7.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15744	0.00	0.00
-2.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18216	0.00	0.00
2.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10104	0.00	0.00

OMNIDIRECTIONAL FLUX SUMMARY VS LATITUDE FOR LONGITUDE= 237.5
LAT + 5 ENERGIES WITH RMS ERROR + NO OF OBS + LINE TOTALS

-17.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	612	0.00	0.00
-12.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15228	0.00	0.00
-7.5	.03	.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16740	.01	.01
-2.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16896	0.00	0.00
2.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7716	0.00	0.00

OMNIDIRECTIONAL FLUX SUMMARY VS LATITUDE FOR LONGITUDE= 242.5
LAT + 5 ENERGIES WITH RMS ERROR + NO OF OBS + LINE TOTALS

-17.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6300	0.00	0.00
-12.5	.03	.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18120	.01	.01
-7.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22476	0.00	0.00
-2.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22663	0.00	0.00
2.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8052	0.00	0.00

OMNIDIRECTIONAL FLUX SUMMARY VS LATITUDE FOR LONGITUDE= 247.5

LAT + 5 ENERGIES WITH RMS ERROR + NO OF OBS + LINE TOTALS													
-22.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	264	0.00	0.00
-17.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17304	0.00	0.00
-12.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18792	0.00	0.00
-7.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15359	0.00	0.00
-2.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15456	0.00	0.00
2.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4955	0.00	0.00

OMNIDIRECTIONAL FLUX SUMMARY VS LATITUDE FOR LONGITUDE= 252.5

LAT + 5 ENERGIES WITH RMS ERROR + NO OF OBS + LINE TOTALS													
-67.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	276	0.00	0.00
-22.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6888	0.00	0.00
-17.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11983	0.00	0.00
-12.5	0.00	0.00	.07	.07	0.00	0.00	0.00	0.00	0.00	0.00	13452	.02	.02
-7.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13236	0.00	0.00
-2.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15288	0.00	0.00
2.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3120	0.00	0.00

OMNIDIRECTIONAL FLUX SUMMARY VS LATITUDE FOR LONGITUDE= 257.5

LAT + 5 ENERGIES WITH RMS ERROR + NO OF OBS + LINE TOTALS													
-67.5	1.05	1.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	540	.44	.44
-37.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	204	0.00	0.00
-27.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3528	0.00	0.00
-22.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11916	0.00	0.00
-17.5	.04	.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12624	.02	.02
-12.5	.05	.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11616	.02	.02
-7.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12912	0.00	0.00
-2.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10740	0.00	0.00
2.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1020	0.00	0.00

OMNIDIRECTIONAL FLUX SUMMARY VS LATITUDE FOR LONGITUDE= 262.5

LAT + 5 ENERGIES WITH RMS ERROR + NO OF OBS + LINE TOTALS													
-67.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	240	0.00	0.00
-37.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	348	0.00	0.00
-32.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6720	0.00	0.00
-27.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12312	0.00	0.00
-22.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9132	0.00	0.00
-17.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7512	0.00	0.00
-12.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7116	0.00	0.00
-7.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7464	0.00	0.00
-2.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9552	0.00	0.00
2.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	[illegible]	0.00	0.00

OMNIDIRECTIONAL FLUX SUMMARY VS LATITUDE FOR LONGITUDE= 267.5

LAT + 5 ENERGIES WITH RMS ERROR + NO OF OBS + LINE TOTALS

-67.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	792	0.00	0.00
-42.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1020	0.00	0.00
-37.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5292	0.00	0.00
-32.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9240	0.00	0.00
-27.5	.06	.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9576	.03	.03
-22.5	0.00	0.00	.08	.08	.27	.19	.16	.16	.41	.41	11832	.10	.05
-17.5	.13	.07	.15	.10	0.00	0.00	0.00	0.00	.36	.36	13284	.11	.04
-12.5	.04	.04	0.00	0.00	.12	.12	0.00	0.00	.35	.35	13608	.05	.03
-7.5	0.00	0.00	.07	.07	0.00	0.00	0.00	0.00	0.00	0.00	13248	.02	.02
-2.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12288	0.00	0.00
2.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	732	0.00	0.00

OMNIDIRECTIONAL FLUX SUMMARY VS LATITUDE FOR LONGITUDE= 272.5

LAT + 5 ENERGIES WITH RMS ERROR + NO OF OBS + LINE TOTALS

-67.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1440	0.00	0.00
-47.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1800	0.00	0.00
-42.5	0.00	0.00	.10	.10	0.00	0.00	0.00	0.00	0.00	0.00	9564	.03	.03
-37.5	.04	.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13212	.02	.02
-32.5	.04	.04	0.00	0.00	.12	.12	.27	.19	0.00	0.00	13572	.07	.04
-27.5	.14	.08	.08	.08	0.00	0.00	0.00	0.00	.40	.40	11880	.10	.05
-22.5	.27	.12	.37	.18	.15	.15	.52	.30	0.00	0.00	10596	.29	.08
-17.5	.39	.16	.34	.20	.74	.37	.64	.37	0.00	0.00	8688	.44	.11
-12.5	.13	.10	.23	.17	.38	.27	0.00	0.00	0.00	0.00	8376	.17	.07
-7.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8316	0.00	0.00
-2.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8604	0.00	0.00
2.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	612	0.00	0.00

OMNIDIRECTIONAL FLUX SUMMARY VS LATITUDE FOR LONGITUDE= 277.5

LAT + 5 ENERGIES WITH RMS ERROR + NO OF OBS + LINE TOTALS

-67.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3180	0.00	0.00
-52.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1980	0.00	0.00
-47.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10128	0.00	0.00
-42.5	.05	.05	0.00	0.00	0.00	0.00	.33	.24	0.00	0.00	11028	.07	.04
-37.5	.13	.09	0.00	0.00	.19	.19	0.00	0.00	0.00	0.00	8604	.08	.05
-32.5	.69	.24	.15	.15	.73	.42	0.00	0.00	0.00	0.00	6564	.44	.13
-27.5	.84	.24	.61	.27	1.40	.53	1.15	.51	1.79	1.04	8028	.96	.17
-22.5	1.91	.36	1.70	.39	2.32	.67	1.34	.55	2.90	1.30	8268	1.80	.23
-17.5	1.50	.30	.73	.28	1.02	.42	.95	.44	1.53	.88	9396	1.18	.17
-12.5	.59	.18	.37	.19	.45	.26	.88	.39	0.00	0.00	10475	.53	.11
-7.5	.16	.11	.13	.13	0.00	0.00	0.00	0.00	0.00	0.00	7284	.10	.06
-2.5	.09	.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6516	.04	.04
2.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	[illegible]	[illegible]	[illegible]

OMNIDIRECTIONAL FLUX SUMMARY VS LATITUDE FOR LONGITUDE= 282.5

LAT + 5 ENERGIES WITH RMS ERROR + NO OF OBS + LINE TOTALS

-67.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3864	0.00	0.00
-57.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	384	0.00	0.00
-52.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6732	0.00	0.00
-47.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6540	0.00	0.00
-42.5	.61	.23	.30	.21	.49	.35	1.42	.64	0.00	0.00	6492	.59	.15
-37.5	1.38	.32	.80	.33	2.39	.72	1.00	.50	2.60	1.30	7380	1.40	.21
-32.5	3.28	.46	4.24	.69	2.74	.71	2.95	.79	3.28	1.34	8772	3.39	.30
-27.5	3.28	.53	4.93	.86	2.69	.71	3.66	1.02	.73	.73	6552	3.52	.36
-22.5	4.03	.55	5.83	.87	3.81	.90	5.86	1.20	6.98	2.11	7560	4.83	.39
-17.5	2.38	.43	2.75	.62	2.02	.67	3.63	.97	1.35	.95	7116	2.53	.29
-12.5	1.67	.38	.92	.37	.50	.35	2.02	.76	3.00	1.50	6408	1.42	.23
-7.5	.26	.13	.11	.11	.33	.27	.65	.37	0.00	0.00	8532	.28	.09
-2.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8148	0.00	0.00
2.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2064	0.00	0.00

OMNIDIRECTIONAL FLUX SUMMARY VS LATITUDE FOR LONGITUDE= 287.5

LAT + 5 ENERGIES WITH RMS ERROR + NO OF OBS + LINE TOTALS

-67.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6208	0.00	0.00
-57.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4404	0.00	0.00
-52.5	0.00	0.00	.12	.12	0.00	0.00	0.00	0.00	0.00	0.00	8496	.03	.03
-47.5	.34	.15	.71	.29	.19	.19	.22	.22	1.16	.82	8292	.43	.11
-42.5	1.69	.40	1.80	.54	2.93	.86	3.38	1.62	4.80	1.36	6800	2.28	.30
-37.5	5.35	.64	4.30	.76	5.71	1.12	7.10	1.34	7.25	2.19	7283	5.47	.42
-32.5	11.78	.94	10.81	1.19	11.48	1.56	12.02	1.72	11.48	2.71	7524	11.52	.61
-27.5	8.32	.72	9.62	1.01	9.55	1.22	10.67	1.48	10.47	2.34	9168	9.11	.49
-22.5	7.99	.79	8.47	1.07	6.59	1.20	11.41	1.70	9.23	2.47	7284	8.40	.53
-17.5	5.43	.66	3.74	.72	4.75	1.04	5.75	1.23	4.75	1.80	7068	4.92	.41
-12.5	1.66	.39	2.57	.64	4.98	1.14	2.42	.85	2.36	1.36	6111	2.51	.31
-7.5	.89	.26	.52	.25	.84	.42	.49	.34	1.26	.89	7593	.76	.15
-2.5	0.00	0.00	0.00	0.00	0.00	0.00	.24	.24	0.00	0.00	7775	.03	.03
2.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4608	0.00	0.00

OMNIDIRECTIONAL FLUX SUMMARY VS LATITUDE FOR LONGITUDE= 292.5
LAT + 5 ENERGIES WITH RMS ERROR + NO OF OBS + LINE TOTALS

-67.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11928	0.00	0.00
-62.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5844	0.00	0.00
-57.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8772	0.00	0.00
-52.5	.39	.15	.20	.14	.32	.23	.55	.32	0.00	0.00	10032	.33	.09
-47.5	1.60	.30	2.39	.48	2.50	.62	2.70	.70	3.75	1.32	10248	2.18	.23
-42.5	4.67	.53	5.71	.77	6.45	1.05	8.07	1.25	12.21	2.49	9432	6.01	.39
-37.5	12.74	.94	13.04	1.26	15.78	1.76	14.34	1.81	22.49	3.55	8112	13.97	.64
-32.5	22.69	1.42	21.06	1.80	21.65	2.34	24.92	2.69	24.11	4.26	6372	22.53	.92
-27.5	17.12	1.15	21.71	1.70	18.49	2.01	19.57	2.16	15.01	3.13	7355	18.53	.78
-22.5	14.42	.98	13.38	1.24	16.01	1.74	14.76	1.79	14.13	2.83	8496	14.44	.64
-17.5	3.41	.77	9.27	1.01	8.65	1.25	8.11	1.30	7.03	1.95	8880	8.97	.49
-12.5	5.16	.51	6.83	.78	5.21	.87	7.02	1.08	4.34	1.37	11049	5.78	.35
-7.5	.96	.23	1.11	.32	1.35	.45	2.09	.60	1.81	.91	10608	1.24	.17
-2.5	.11	.07	.18	.13	0.00	0.00	0.00	0.00	.45	.45	10716	.11	.05
2.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7872	0.00	0.00

OMNIDIRECTIONAL FLUX SUMMARY VS LATITUDE FOR LONGITUDE= 297.5
LAT + 5 ENERGIES WITH RMS ERROR + NO OF OBS + LINE TOTALS

-67.5	0.00	0.00	0.00	0.00	0.00	0.00	.29	.29	0.00	0.00	6456	.04	.04
-62.5	.06	.06	.10	.10	0.00	0.00	0.00	0.00	0.00	0.00	10063	.05	.03
-57.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.44	.44	10800	.02	.02
-52.5	.46	.20	1.26	.45	1.55	.63	2.08	.79	2.32	1.34	6204	1.12	.21
-47.5	5.01	.68	4.74	.87	4.64	1.09	12.50	1.93	13.93	3.28	6203	6.31	.49
-42.5	12.12	.79	12.48	1.06	13.94	1.43	19.80	1.83	25.52	3.35	10908	14.15	.56
-37.5	22.63	1.00	22.63	1.32	25.97	1.73	34.72	2.24	33.34	3.53	12816	25.47	.69
-32.5	30.58	1.14	33.04	1.56	29.65	1.99	34.76	2.20	27.59	3.16	13224	31.44	.76
-27.5	31.25	1.22	32.08	1.63	30.87	2.04	33.74	2.30	29.65	3.47	11820	31.64	.80
-22.5	22.67	1.03	24.69	1.42	25.87	1.85	23.42	1.89	24.68	3.13	12060	23.84	.69
-17.5	14.46	.83	15.02	1.14	11.48	1.24	17.40	1.64	13.21	2.30	11983	14.72	.54
-12.5	8.60	.56	8.95	.75	9.23	.98	10.05	1.10	12.44	1.97	15432	9.16	.38
-7.5	2.89	.52	3.64	.48	4.20	.66	4.25	.71	3.38	1.02	15624	3.47	.23
-2.5	.24	.09	.24	.12	.39	.20	.34	.20	1.18	.59	16260	.32	.07
2.5	.07	.05	.06	.06	0.00	0.00	0.00	0.00	0.00	0.00	16080	.04	.03
7.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2208	0.00	0.00

OMNIDIRECTIONAL FLUX SUMMARY VS LATITUDE FOR LONGITUDE= 302.5

LAT + 5 ENERGIES WITH RMS ERROR + NO OF OBS + LINE TOTALS

-67.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.57	.57	8460	.03	.03
-62.5	.08	.08	0.00	0.00	0.00	0.00	0.00	0.00	.71	.71	6780	.07	.05
-57.5	.09	.09	.15	.15	.25	.25	.57	.41	.75	.75	6432	.22	.09
-52.5	2.04	.31	2.10	.41	2.90	.52	7.75	1.08	13.03	2.27	12156	3.48	.26
-47.5	5.91	.50	8.77	.51	10.55	1.13	28.00	1.98	42.95	3.35	13188	12.03	.47
-42.5	16.67	.96	18.19	1.33	23.66	1.94	43.57	2.82	55.41	5.57	10127	24.06	.76
-37.5	34.40	1.39	37.01	1.90	38.76	2.49	59.08	3.30	65.56	5.50	10032	40.46	.98
-32.5	43.59	1.27	47.27	1.74	44.94	2.17	49.19	2.44	59.08	4.31	15275	46.20	.85
-27.5	41.02	1.12	47.20	1.58	40.10	1.16	47.08	2.07	35.26	3.02	18516	42.38	.74
-22.5	31.18	.93	32.68	1.26	31.24	1.57	30.48	1.67	26.81	2.52	20232	31.25	.61
-17.5	20.23	.72	21.14	.97	21.13	1.25	22.56	1.38	21.33	2.17	21823	20.96	.48
-12.5	11.94	.63	9.90	.75	12.15	1.07	13.26	1.20	13.46	1.94	17124	11.72	.41
-7.5	5.17	.41	6.11	.59	4.85	.67	5.81	.78	4.40	1.10	17471	5.40	.27
-2.5	.66	.13	.63	.18	1.02	.30	.79	.28	.77	.44	18768	.70	.09
2.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15036	0.00	0.00
7.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5495	0.00	0.00

OMNIDIRECTIONAL FLUX SUMMARY VS LATITUDE FOR LONGITUDE= 307.5

LAT + 5 ENERGIES WITH RMS ERROR + NO OF OBS + LINE TOTALS

-67.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.66	.56	7320	.03	.03
-62.5	.15	.11	.26	.18	0.00	0.00	.98	.49	.63	.63	7560	.29	.10
-57.5	.48	.17	.42	.21	1.37	.48	4.55	.95	9.77	2.24	9335	1.59	.20
-52.5	2.47	.38	4.19	.65	5.67	.87	19.26	1.93	42.06	4.59	9588	7.54	.43
-47.5	8.88	.59	13.38	.95	18.55	1.43	51.21	2.55	81.07	5.17	14567	20.55	.58
-42.5	19.76	.77	28.47	1.21	35.43	1.73	67.81	2.56	96.86	4.94	19032	34.35	.66
-37.5	39.46	1.00	44.71	1.40	49.28	1.87	76.03	2.50	92.85	4.46	22439	49.64	.73
-32.5	50.57	1.21	58.86	1.72	56.53	2.16	67.03	2.52	77.40	4.37	19475	56.98	.84
-27.5	47.91	1.18	50.25	1.59	50.23	2.04	57.77	2.35	52.30	3.50	19368	50.34	.79
-22.5	37.73	1.14	41.57	1.58	37.64	1.92	39.34	2.11	37.14	3.31	16284	38.84	.76
-17.5	26.57	1.07	30.23	1.50	28.07	1.84	32.25	2.12	17.79	2.54	13223	27.99	.71
-12.5	14.74	.74	15.35	.99	14.69	1.24	16.46	1.41	15.11	2.18	15251	15.12	.49
-7.5	6.87	.46	7.48	.66	6.50	.80	7.93	.93	7.16	1.43	16763	7.42	.33
-2.5	1.60	.23	1.95	.33	2.00	.43	1.89	.44	1.36	.51	17625	1.77	.16
2.5	.09	.05	.10	.07	0.00	0.00	.10	.10	.25	.25	19068	.09	.03
7.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14520	0.00	0.00

OMNIDIRECTIONAL FLUX SUMMARY VS LATITUDE FOR LONGITUDE= 312.5

LAT + 5 ENERGIES WITH RMS ERROR + NO OF OBS + LINE TOTALS

-67.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.36	1.18	8148	.12	.06
-62.5	.11	.08	.10	.10	.96	.39	2.22	.64	5.76	1.66	9996	.79	.14
-57.5	.38	.12	1.80	.35	2.39	.51	10.54	1.15	29.37	3.10	14712	3.80	.25
-52.5	3.01	.29	4.57	.48	10.22	.91	34.25	1.79	82.25	4.47	19727	12.50	.39
-47.5	9.64	.57	13.77	.90	27.71	1.64	74.53	2.88	135.28	6.26	15572	28.08	.64
-42.5	23.03	.92	27.94	1.34	45.11	2.18	102.65	3.53	154.22	6.37	15252	44.46	.84
-37.5	42.23	1.35	46.67	1.87	59.83	2.71	95.29	3.67	130.66	6.93	13079	57.28	1.03
-32.5	56.30	1.51	62.47	2.10	65.45	2.77	90.76	3.47	86.03	5.45	13894	65.30	1.06
-27.5	56.70	1.47	59.48	1.98	57.17	2.48	63.31	2.93	59.64	4.38	14690	59.24	.98
-22.5	42.10	1.11	48.44	1.57	42.49	1.87	47.41	2.13	35.96	2.99	19355	44.10	.74
-17.5	31.29	.90	33.01	1.21	30.52	1.49	32.03	1.64	26.81	2.42	22020	31.47	.59
-12.5	16.93	.65	18.63	.90	17.40	1.12	16.77	1.18	16.76	1.90	22344	17.39	.43
-7.5	8.42	.49	9.12	.67	9.04	.86	8.92	.92	8.55	1.44	19655	8.76	.33
-2.5	2.10	.28	1.92	.35	1.88	.44	2.50	.65	2.20	.83	15286	2.25	.19
2.5	.44	.16	.19	.14	.31	.22	.18	.18	0.00	0.00	10234	.30	.08
7.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9084	0.00	0.00

OMNIDIRECTIONAL FLUX SUMMARY VS LATITUDE FOR LONGITUDE= 317.5

LAT + 5 ENERGIES WITH RMS ERROR + NO OF OBS + LINE TOTALS

-67.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.75	.88	10944	.09	.04
-62.5	.09	.05	.32	.13	.35	.17	4.73	.69	20.92	2.34	16360	1.83	.15
-57.5	.63	.14	.32	.21	4.08	.50	14.65	1.22	60.72	4.02	18024	6.02	.28
-52.5	3.21	.38	5.42	.64	12.21	1.23	44.29	2.52	129.73	6.96	12840	16.77	.56
-47.5	11.95	.77	15.36	1.14	35.67	2.23	105.43	4.14	219.87	9.59	11484	39.02	.90
-42.5	24.39	1.03	36.24	1.66	56.09	2.64	140.73	4.48	197.99	8.58	12923	55.85	1.02
-37.5	42.19	1.21	51.75	1.76	61.54	2.45	121.51	3.71	160.25	6.86	16356	63.70	.97
-32.5	58.17	1.40	67.09	1.98	78.50	2.73	105.94	3.41	110.63	5.62	16836	72.24	1.01
-27.5	60.08	1.51	67.67	2.11	64.75	2.63	77.18	3.09	72.68	4.33	14927	65.49	1.03
-22.5	48.98	1.44	50.88	1.94	47.47	2.39	56.02	2.79	48.92	4.21	13248	50.13	.95
-17.5	31.89	1.30	37.24	1.65	30.25	2.13	39.59	2.62	31.31	3.79	10680	33.96	.87
-12.5	18.51	1.00	22.62	1.45	20.22	1.75	24.21	2.06	18.25	2.88	10524	20.50	.68
-7.5	9.05	.69	9.00	.91	9.00	1.16	11.42	1.41	9.00	2.01	10668	9.34	.46
-2.5	2.68	.36	3.05	.51	2.63	.60	3.19	.71	4.56	1.37	11580	2.92	.25
2.5	.49	.15	.34	.17	0.00	0.00	.48	.28	0.00	0.00	11592	.35	.09
7.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12936	0.00	0.00

OMNIDIRECTIONAL FLUX SUMMARY VS LATITUDE FOR LONGITUDE= 322.5

LAT + 5 ENERGIES WITH RMS ERROR + NO OF OBS + LINE TOTALS

-67.5	.03	.03	0.00	0.00	0.00	0.00	.31	.18	5.57	1.22	18084	.38	.07
-62.5	0.00	0.00	.12	.08	2.04	.45	7.75	.93	27.74	2.35	16440	2.73	.20
-57.5	.48	.14	1.65	.35	6.37	.88	31.54	2.11	100.01	6.06	13056	10.66	.44
-52.5	3.92	.38	6.61	.65	15.93	1.29	74.15	2.99	210.08	8.13	15264	25.82	.64
-47.5	9.65	.58	19.10	1.06	30.61	1.83	129.53	3.79	293.92	9.06	16620	45.69	.81
-42.5	21.85	.91	33.39	1.48	60.84	2.55	156.45	4.39	267.54	9.26	14964	60.31	.98
-37.5	36.54	1.36	45.38	1.99	67.27	3.10	138.42	4.78	200.94	9.28	11204	64.78	1.18
-32.5	54.29	1.74	61.47	2.44	65.10	3.26	120.03	4.67	134.29	7.97	10152	70.22	1.29
-27.5	59.66	1.83	77.54	2.75	70.73	3.76	83.46	3.92	91.29	6.51	10044	70.38	1.30
-22.5	49.32	1.76	59.57	2.54	54.51	3.11	57.57	3.43	51.67	5.25	9012	53.80	1.20
-17.5	35.08	1.58	32.09	1.99	31.13	2.50	42.54	3.14	33.74	4.51	7968	34.67	1.02
-12.5	19.19	1.40	21.25	1.94	18.51	2.31	27.03	3.00	26.03	4.75	5532	20.96	.95
-7.5	9.96	1.13	9.64	1.47	12.82	2.17	12.68	2.32	7.69	2.91	4368	10.55	.76
-2.5	2.25	.49	1.67	.56	3.94	1.09	4.20	1.21	4.55	2.03	5280	2.73	.35
2.5	.43	.19	.90	.37	.73	.42	1.41	.63	1.47	1.04	6552	.77	.17
7.5	0.00	0.00	.13	.13	0.00	0.00	0.00	0.00	0.00	0.00	7416	.03	.03

OMNIDIRECTIONAL FLUX SUMMARY VS LATITUDE FOR LONGITUDE= 327.5

LAT + 5 ENERGIES WITH RMS ERROR + NO OF OBS + LINE TOTALS

-67.5	0.00	0.00	.05	.06	0.00	0.00	.24	.17	4.11	1.14	15180	.25	.06
-62.5	0.00	0.00	.14	.10	1.02	.34	6.44	.92	41.34	3.76	14052	3.09	.23
-57.5	.38	.11	1.79	.33	4.68	.58	48.94	2.15	146.21	6.54	16416	13.93	.45
-52.5	3.47	.38	6.95	.71	13.35	1.25	72.00	3.12	273.62	9.80	13667	28.22	.70
-47.5	10.62	.73	16.17	1.18	40.40	2.39	148.17	4.91	337.35	11.96	11327	50.67	1.04
-42.5	20.61	1.08	30.14	1.72	59.53	3.09	184.35	5.85	330.65	12.53	9945	65.57	1.26
-37.5	34.14	1.50	46.23	2.31	69.31	3.61	170.35	6.00	264.84	12.22	8519	71.62	1.42
-32.5	52.80	2.16	59.74	3.02	68.05	4.13	140.00	6.36	179.38	11.50	6396	74.45	1.67
-27.5	56.75	2.23	64.63	3.13	73.75	4.18	99.91	5.34	92.03	8.26	6468	68.17	1.59
-22.5	50.61	2.26	53.55	3.07	52.48	3.88	57.90	4.38	56.78	6.99	5580	52.86	1.51
-17.5	34.38	1.77	40.98	2.55	31.27	2.54	45.60	3.01	46.52	6.01	6192	37.99	1.21
-12.5	23.26	1.47	22.60	1.91	26.37	2.54	21.60	2.56	22.94	4.26	6069	23.33	.96
-7.5	8.02	.81	10.54	1.22	12.39	1.69	11.12	1.72	12.39	2.92	6972	9.91	.56
-2.5	3.46	.67	3.56	.89	3.63	1.15	6.71	1.68	6.54	2.57	4404	4.09	.47
2.5	.21	.15	.54	.31	.69	.51	1.02	.59	.89	.39	5424	.53	.15
7.5	0.00	0.00	.33	.27	.72	.32	0.00	0.00	0.00	0.00	5052	.14	.08

OMNIDIRECTIONAL FLUX SUMMARY VS LATITUDE FOR LONGITUDE= 332.5

LAT + 5 ENERGIES WITH RMS ERROR + NO OF OBS + LINE TOTALS

-67.5	0.00	0.00	0.00	0.00	.19	.14	.22	.16	2.03	.77	16536	.16	.05
-62.5	0.00	0.00	.07	.07	.64	.26	3.01	.68	30.67	3.13	15024	2.14	.18
-57.5	.16	.10	1.71	.40	5.59	.33	38.20	2.62	144.07	8.20	10296	13.50	.56
-52.5	2.45	.40	5.60	.79	15.00	1.66	93.92	4.45	352.29	13.90	8748	34.49	.97
-47.5	7.82	.81	13.56	1.41	35.85	2.94	166.63	5.80	433.25	17.59	6648	55.35	1.41
-42.5	15.63	1.18	27.58	2.07	65.15	4.07	205.54	7.77	422.17	17.95	6288	71.00	1.65
-37.5	29.49	1.57	41.47	2.45	67.26	3.98	186.26	7.12	279.67	14.37	6780	70.98	1.59
-32.5	42.67	2.00	49.18	2.83	69.99	4.31	146.21	6.69	180.53	11.98	6036	68.71	1.65
-27.5	50.53	2.27	60.73	3.28	64.65	4.32	108.57	6.01	129.01	10.57	5544	66.63	1.70
-22.5	49.58	2.63	60.38	3.51	53.67	4.60	51.47	5.29	56.82	8.20	4055	52.44	1.76
-17.5	31.82	2.05	37.49	2.94	36.06	3.68	36.84	4.00	34.93	6.27	4260	34.65	1.40
-12.5	20.69	1.50	17.85	1.84	20.16	2.50	24.33	2.95	17.68	4.36	5160	20.23	.97
-7.5	8.43	.93	9.80	1.32	9.61	1.57	10.75	1.90	9.61	2.30	5496	9.30	.64
-2.5	3.26	.58	4.06	.85	4.33	1.12	4.00	1.15	0.00	0.00	5544	3.55	.39
2.5	.20	.14	1.20	.45	1.63	.69	.65	.46	0.00	0.00	5705	.72	.17
7.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7212	0.00	0.00

OMNIDIRECTIONAL FLUX SUMMARY VS LATITUDE FOR LONGITUDE= 337.5

LAT + 5 ENERGIES WITH RMS ERROR + NO OF OBS + LINE TOTALS

-67.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.61	.43	15612	.03	.02
-62.5	.05	.05	0.00	0.00	0.00	0.00	2.55	.64	19.36	2.37	11604	1.34	.17
-57.5	.16	.11	1.41	.45	6.22	1.00	32.95	2.96	176.87	11.05	6948	14.47	.71
-52.5	1.55	.41	3.64	.64	15.65	2.21	92.32	5.79	385.01	19.01	5112	35.21	1.29
-47.5	5.66	.79	11.36	1.48	30.51	3.10	142.25	7.18	476.45	21.20	5088	52.08	1.57
-42.5	15.69	1.36	28.84	2.42	58.05	4.39	212.80	9.02	461.73	21.44	4824	73.19	1.91
-37.5	22.32	1.73	35.92	2.89	65.53	5.00	203.53	9.46	324.60	19.26	4200	70.81	2.01
-32.5	33.89	1.91	45.50	2.92	62.08	4.36	141.51	7.07	234.88	14.58	5232	65.01	1.73
-27.5	44.61	2.18	52.20	3.11	60.47	4.28	112.34	6.26	110.67	10.32	5292	60.96	1.66
-22.5	44.45	2.20	53.17	3.17	57.28	4.20	65.03	4.81	68.37	7.95	5196	52.38	1.56
-17.5	32.97	1.77	35.37	2.42	27.81	2.74	34.56	3.28	40.50	5.73	5927	33.37	1.16
-12.5	20.40	1.26	15.60	1.45	16.61	1.92	23.00	2.42	20.60	3.70	7224	19.00	.79
-7.5	8.64	.74	7.71	.92	9.72	1.32	7.27	1.23	8.10	2.09	8092	8.37	.48
-2.5	2.23	.36	1.93	.44	2.15	.60	2.38	.74	2.49	1.12	9624	2.24	.24
2.5	.49	.16	.68	.24	.55	.28	.32	.23	0.00	0.00	11460	.50	.10
7.5	0.00	0.00	.10	.10	.33	.24	.39	.27	0.00	0.00	9564	.13	.06

OMNIDIRECTIONAL FLUX SUMMARY VS LATITUDE FOR LONGITUDE= 342.5

LAT + 5 ENERGIES WITH RMS ERROR + NO OF OBS + LINE TOTALS

-67.5	0.00	0.00	0.00	0.00	0.00	0.00	.21	.21	.55	.55	8772	.05	.04
-62.5	.09	.09	0.00	0.00	0.00	0.00	3.31	1.00	16.44	3.59	6132	1.29	.22
-57.5	0.00	0.00	.58	.26	3.42	.31	21.07	2.15	127.83	8.54	8412	9.79	.53
-52.5	1.52	.39	3.88	.83	13.25	1.95	95.06	5.62	381.09	18.15	5555	35.00	1.23
-47.5	4.86	.72	8.05	1.23	28.44	2.[illegible]5	152.45	7.33	559.68	22.66	5232	56.11	1.60
-42.5	10.57	1.06	19.81	1.91	45.96	3.[illegible]3	210.03	8.56	571.48	22.77	5292	72.11	1.81
-37.5	19.23	1.40	33.19	2.41	71.12	4.52	216.39	8.46	448.21	19.64	5580	77.51	1.83
-32.5	26.02	1.41	39.82	2.30	66.56	3.80	160.11	5.33	264.74	13.12	7380	64.85	1.45
-27.5	33.85	1.44	44.46	2.17	54.51	3.[illegible]7	107.66	4.63	145.34	8.59	9275	54.75	1.19
-22.5	35.68	1.40	39.78	1.94	42.33	2.86	59.75	3.27	71.63	5.77	10320	42.61	1.00
-17.5	26.86	1.23	30.68	1.73	25.84	2.02	36.96	2.60	40.31	4.41	10092	29.66	.84
-12.5	15.93	1.12	15.52	1.45	18.45	2.03	15.39	1.99	18.01	3.47	7198	16.24	.74
-7.5	6.28	.82	7.32	1.17	7.05	1.47	8.84	1.77	3.68	1.84	5220	6.85	.56
-2.5	2.09	.60	2.72	.91	3.45	1.71	3.99	1.51	1.48	1.48	3239	2.67	.44
2.5	.61	.35	1.76	.79	0.00	0.00	.66	.66	0.00	0.00	2784	.78	.26
7.5	.23	.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2424	.10	.10

OMNIDIRECTIONAL FLUX SUMMARY VS LATITUDE FOR LONGITUDE= 347.5

LAT + 5 ENERGIES WITH RMS ERROR + NO OF OBS + LINE TOTALS

-67.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5376	0.00	0.00
-62.5	0.00	0.00	0.00	0.00	0.00	0.00	.40	.40	4.12	2.06	4656	.26	.12
-57.5	0.00	0.00	.24	.24	.78	.55	13.60	2.73	103.80	11.00	4116	7.52	.66
-52.5	.83	.28	4.31	.83	14.58	1.85	94.96	5.34	385.97	17.37	6144	35.24	1.17
-47.5	3.32	.44	10.80	1.05	23.34	1.98	154.63	5.47	591.48	17.26	9528	57.23	1.20
-42.5	9.06	.65	18.51	1.22	45.62	2.44	201.38	5.50	614.71	15.50	12276	72.15	1.19
-37.5	16.62	.93	29.54	1.63	54.10	2.[illegible]1	229.46	6.22	493.07	14.71	10943	76.90	1.30
-32.5	25.29	1.46	38.79	2.37	54.81	3.61	171.65	6.86	320.31	15.10	6744	66.80	1.54
-27.5	26.29	1.87	36.43	2.79	48.65	4.13	107.82	6.60	155.39	12.77	4572	50.03	1.62
-22.5	30.24	2.39	33.44	3.31	43.38	4.82	60.55	6.12	83.54	11.59	2988	39.60	1.78
-17.5	29.86	3.89	21.07	4.30	31.54	6.73	31.43	7.21	47.32	14.27	1116	29.03	2.50
-12.5	11.15	2.15	9.31	2.58	11.70	3.70	14.85	4.48	10.53	6.08	1368	11.23	1.40
-7.5	4.24	1.34	1.47	1.04	3.60	2.[illegible]9	2.77	1.96	0.00	0.00	1332	3.06	.74
-2.5	1.68	.71	2.33	1.04	1.52	1.[illegible]8	1.76	1.24	2.29	2.29	2100	1.94	.47
2.5	.22	.22	.76	.54	0.00	0.00	.72	.72	0.00	0.00	2563	.37	.19
7.5	.12	.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4764	.05	.05

OMNIDIRECTIONAL FLUX SUMMARY VS LATITUDE FOR LONGITUDE= 352.5

LAT + 5 ENERGIES WITH RMS ERROR + NO OF OBS + LINE TOTALS

-67.5	0.00	0.00	0.00	0.00	.44	.44	0.00	0.00	0.00	0.00	3599	.07	.07
-62.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.28	1.92	5604	.21	.10
-57.5	0.00	0.00	.38	.22	.61	.35	8.97	1.45	55.83	5.85	7824	4.14	.36
-52.5	.41	.16	2.46	.50	11.70	1.40	66.06	3.62	333.86	12.94	9575	28.07	.84
-47.5	2.03	.44	8.20	1.17	27.05	2.72	158.90	7.08	590.21	22.00	5856	57.09	1.53
-42.5	6.45	1.02	12.30	1.85	37.90	4.16	184.95	9.87	613.75	29.00	3504	66.17	2.13
-37.5	15.15	1.65	29.09	3.02	55.69	5.33	213.99	11.23	505.79	27.34	3132	75.03	2.40
-32.5	19.45	1.78	20.76	2.90	54.63	5.73	168.28	9.48	341.69	21.79	3456	62.71	2.09
-27.5	21.20	1.85	30.37	2.91	47.33	4.84	96.10	7.10	147.45	14.19	3516	43.42	1.72
-22.5	22.29	1.81	25.43	2.54	29.91	3.52	40.74	4.42	51.09	7.96	3652	28.04	1.32
-17.5	17.47	1.76	13.79	2.47	16.67	2.90	23.89	3.73	34.85	7.27	3168	13.62	1.22
-12.5	8.56	1.16	7.15	1.40	6.74	1.74	9.85	2.26	12.13	4.04	3563	8.29	.75
-7.5	1.76	.59	1.02	.59	.55	.55	3.83	1.56	3.32	2.35	2892	1.74	.38
-2.5	.36	.21	.21	.21	.69	.49	0.00	0.00	1.03	1.03	4642	.36	.14
2.5	.10	.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5532	.04	.04
7.5	0.00	0.00	0.00	0.00	.35	.35	.40	.40	0.00	0.00	4572	.10	.07

OMNIDIRECTIONAL FLUX SUMMARY VS LATITUDE FOR LONGITUDE= 357.5

LAT + 5 ENERGIES WITH RMS ERROR + NO OF OBS + LINE TOTALS

-67.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2412	0.00	0.00
-62.5	.32	.12	0.00	0.00	0.00	0.00	0.00	0.00	2.75	1.04	12239	.27	.07
-57.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.80	44.51	4.98	8628	2.61	.27
-52.5	.19	.19	1.61	.72	6.30	1.82	46.04	5.28	277.19	20.89	3048	21.26	1.29
-47.5	2.08	.93	4.33	1.77	23.60	5.28	166.11	15.04	715.10	50.31	1356	62.84	3.34
-42.5	1.72	.99	8.95	2.99	32.52	7.27	153.86	16.99	731.77	59.75	984	64.40	3.96
-37.5	11.44	1.93	27.21	3.93	42.60	6.28	230.79	15.70	600.35	40.83	1728	77.92	3.29
-32.5	13.14	1.70	29.63	3.35	60.80	6.14	168.95	11.00	348.37	25.45	2579	61.33	2.39
-27.5	19.63	2.09	21.28	2.87	33.49	4.60	102.09	3.63	121.34	15.17	2532	37.92	1.90
-22.5	18.25	1.37	20.10	1.89	22.65	2.57	46.93	3.97	50.55	6.64	5508	24.71	1.04
-17.5	10.55	.98	12.76	1.39	13.79	1.83	13.56	2.00	14.56	3.34	6264	12.07	.68
-12.5	4.92	.72	2.72	.70	4.15	1.11	3.76	1.13	8.00	2.37	5400	4.27	.44
-7.5	.82	.27	.32	.22	.51	.26	.89	.51	3.39	1.54	6215	.77	.17
-2.5	.26	.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4344	.11	.08
2.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3957	0.00	0.00
7.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5592	0.00	0.00

OMNIDIRECTIONAL FLUX SUMMARY VS LATITUDE FOR LONGITUDE= 2.5

LAT + 5 ENERGIES WITH RMS ERROR + NO OF OBS + LINE TOTALS

-67.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	672	0.00	0.00
-62.5	0.00	0.00	0.00	0.00	0.00	0.00	.40	.40	2.08	1.47	4608	.16	.09
-57.5	0.00	0.00	0.00	0.00	0.00	0.00	1.71	.86	22.29	4.98	4308	1.34	.27
-52.5	0.00	0.00	.41	.29	3.04	1.01	26.88	3.24	196.47	14.11	4740	13.67	.84
-47.5	.96	.34	3.32	.82	17.98	2.47	119.41	6.84	539.48	23.43	4715	46.42	1.54
-42.5	2.93	.55	8.76	1.23	26.13	2.79	154.29	8.16	739.48	25.67	5380	69.45	1.76
-37.5	5.73	.84	16.71	1.86	38.69	3.66	185.75	8.60	610.41	25.15	4632	67.00	1.86
-32.5	12.52	1.45	21.14	2.47	50.61	4.89	149.54	9.03	300.82	20.56	3383	52.57	1.93
-27.5	13.58	1.45	21.41	2.39	35.85	7.26	78.69	6.30	152.14	14.13	3660	34.23	1.50
-22.5	11.27	2.45	14.84	3.71	13.64	4.55	17.99	4.95	36.37	12.86	1056	14.09	1.79
-17.5	8.11	2.10	10.32	7.11	6.13	3.07	7.07	3.54	0.00	0.00	1044	7.82	1.34
-12.5	.60	.60	3.10	1.79	0.00	0.00	0.00	0.00	5.06	5.06	948	1.27	.57
-7.5	.65	.65	1.13	1.13	1.85	1.85	2.14	2.14	0.00	0.00	864	1.11	.56
-2.5	0.00	0.00	0.00	0.00	0.00	0.00	1.12	1.12	0.00	0.00	1652	.15	.15
2.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3804	0.00	0.00
7.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4776	0.00	0.00

OMNIDIRECTIONAL FLUX SUMMARY VS LATITUDE FOR LONGITUDE= 7.5

LAT + 5 ENERGIES WITH RMS ERROR + NO OF OBS + LINE TOTALS

-62.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5796	0.00	0.00
-57.5	.17	.17	0.00	0.00	0.00	0.00	.57	.57	8.59	3.53	3240	.59	.21
-52.5	.09	.09	.45	.28	1.30	.58	15.03	2.12	114.85	9.47	6144	8.05	.56
-47.5	.50	.20	2.59	.61	13.62	1.79	78.55	4.61	433.13	17.47	6816	34.76	1.11
-42.5	2.34	.48	6.42	1.04	16.01	2.10	163.10	7.21	690.74	23.92	5796	60.71	1.59
-37.5	5.73	.89	14.05	1.84	32.05	3.56	144.27	8.12	517.55	24.79	4044	55.32	1.81
-32.5	8.39	1.26	13.52	2.47	31.86	4.15	160.76	10.01	348.32	23.76	2963	51.20	2.04
-27.5	10.24	1.42	13.32	2.43	27.34	3.01	79.83	7.17	130.55	14.78	2868	28.62	1.55
-22.5	7.70	1.51	8.77	2.12	8.39	2.65	21.29	4.54	35.22	9.41	1908	11.20	1.19
-17.5	5.88	1.77	0.00	0.00	7.58	3.89	5.50	2.47	0.00	0.00	1056	4.09	.96
-12.5	1.34	.78	1.56	1.10	1.27	1.27	1.47	1.47	0.00	0.00	1260	1.33	.50
-7.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1224	0.00	0.00
-2.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1044	0.00	0.00
2.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3108	0.00	0.00
7.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5985	0.00	0.00

OMNIDIRECTIONAL FLUX SUMMARY VS LATITUDE FOR LONGITUDE= 12.5
LAT + 5 ENERGIES WITH RMS ERROR + NO OF OBS + LINE TOTALS

-62.5	0.00	0.00	0.00	0.00	0.00	0.00	.30	.30	0.00	0.00	6132	.04	.04
-57.5	0.00	0.00	0.00	0.00	.13	.13	.15	.15	3.17	1.12	12095	.20	.06
-52.5	0.00	0.00	0.00	0.00	.26	.26	4.54	1.17	41.74	5.73	6096	2.72	.33
-47.5	0.00	0.00	2.04	1.18	2.22	1.57	34.62	6.66	180.01	24.50	1440	14.33	1.55
-42.5	2.35	.96	5.44	1.92	11.11	3.51	123.09	12.56	553.38	42.95	1440	47.67	2.82
-37.5	4.53	.91	12.56	1.99	29.75	3.51	161.55	9.78	543.12	28.91	3120	57.62	2.11
-32.5	9.99	1.12	16.89	1.91	31.83	3.56	131.41	7.32	281.19	17.27	4524	44.30	1.53
-27.5	9.89	1.14	11.89	1.65	19.80	2.72	54.73	4.66	98.61	10.51	4284	22.13	1.11
-22.5	6.15	.86	6.07	1.13	8.89	1.74	12.23	2.20	21.54	4.70	4680	8.10	.64
-17.5	2.26	.41	2.75	.60	1.71	.50	2.96	.85	3.85	1.57	7487	2.47	.28
-12.5	.06	.06	.33	.19	.18	.18	0.00	0.00	0.00	0.00	8987	.13	.06
-7.5	.06	.06	.21	.15	0.00	0.00	0.00	0.00	.51	.51	9348	.10	.05
-2.5	.06	.06	.10	.10	0.00	0.00	0.00	0.00	0.00	0.00	10176	.05	.03
2.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7104	0.00	0.00
7.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5544	0.00	0.00

OMNIDIRECTIONAL FLUX SUMMARY VS LATITUDE FOR LONGITUDE= 17.5
LAT + 5 ENERGIES WITH RMS ERROR + NO OF OBS + LINE TOTALS

-62.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3300	0.00	0.00
-57.5	.05	.05	.08	.08	.13	.13	0.00	0.00	.79	.56	12204	.10	.04
-52.5	0.00	0.00	.11	.11	0.00	0.00	1.79	.60	27.46	3.77	9264	1.63	.21
-47.5	.13	.09	.91	.32	3.52	.81	26.93	2.40	193.37	10.37	8639	13.97	.62
-42.5	.08	.26	4.87	.66	17.66	2.10	108.50	5.58	514.22	19.59	6432	44.03	1.28
-37.5	4.60	.60	8.93	1.11	21.33	2.19	122.79	5.64	495.73	18.27	7127	43.09	1.27
-32.5	7.12	.74	14.51	1.40	22.60	2.23	105.05	5.16	287.60	13.76	7294	38.01	1.12
-27.5	6.71	.73	11.78	1.27	16.33	1.91	47.25	3.49	94.65	7.97	7151	19.06	.80
-22.5	4.58	.54	6.94	.89	6.04	1.05	11.19	1.54	13.72	2.74	8747	6.70	.43
-17.5	1.05	.27	1.45	.42	.99	.44	.68	.40	2.97	1.33	8083	1.19	.19
-12.5	.07	.07	.12	.12	0.00	0.00	.44	.31	0.00	0.00	8484	.11	.06
-7.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7968	0.00	0.00
-2.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8700	0.00	0.00
2.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10296	0.00	0.00
7.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8664	0.00	0.00

OMNIDIRECTIONAL FLUX SUMMARY VS LATITUDE FOR LONGITUDE= 22.5
LAT + 5 ENERGIES WITH RMS ERROR + NO OF OBS + LINE TOTALS

-62.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	168	0.00	0.00
-57.5	.06	.06	0.00	0.00	0.00	0.00	0.00	0.00	3.11	1.27	9252	.18	.07
-52.5	0.00	0.00	0.00	0.00	0.00	0.00	1.07	.38	22.65	2.81	13776	1.27	.15
-47.5	.03	.03	.25	.11	2.23	.42	16.27	1.24	144.76	5.35	19631	9.76	.35
-42.5	.50	.13	3.22	.43	14.38	1.16	83.93	3.02	379.76	10.35	17027	33.06	.68
-37.5	2.56	.32	7.34	.72	15.91	1.35	124.68	4.08	448.12	12.45	13883	43.91	.87
-32.5	5.42	.47	10.17	.84	24.52	1.68	85.39	3.36	238.51	9.05	13968	31.50	.74
-27.5	4.85	.47	7.94	.79	15.70	1.43	75.47	2.30	68.10	5.15	12335	14.38	.53
-22.5	1.70	.30	2.67	.50	3.01	.87	6.25	1.04	8.13	1.32	10631	3.05	.26
-17.5	.71	.20	.51	.23	.50	.29	0.00	0.00	0.00	0.00	9552	.50	.11
-12.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5688	0.00	0.00
-7.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6755	0.00	0.00
-2.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6144	0.00	0.00
2.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7128	0.00	0.00
7.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7920	0.00	0.00

OMNIDIRECTIONAL FLUX SUMMARY VS LATITUDE FOR LONGITUDE= 27.5
LAT + 5 ENERGIES WITH RMS ERROR + NO OF OBS + LINE TOTALS

-57.5	.05	.05	0.00	0.00	0.00	0.00	0.00	0.00	.39	.39	12252	.04	.03
-52.5	.06	.04	0.00	0.00	0.00	0.00	.62	.29	8.31	1.49	17904	.55	.09
-47.5	0.00	0.00	.20	.11	1.17	.35	12.06	1.22	87.05	5.28	15000	6.14	.31
-42.5	.39	.12	2.05	.36	11.18	1.07	66.14	2.79	318.01	9.35	15744	26.85	.64
-37.5	1.81	.23	5.87	.55	18.91	1.27	99.45	3.13	369.73	9.74	18696	36.46	.68
-32.5	4.49	.39	9.66	.75	16.07	1.24	66.33	2.71	200.88	7.59	16728	25.35	.60
-27.5	5.27	.43	6.89	.64	9.61	.97	22.44	1.78	60.27	4.19	16488	12.08	.42
-22.5	1.83	.29	2.56	.44	2.91	.81	2.92	.65	3.42	1.14	12648	2.39	.21
-17.5	.10	.07	.33	.17	.82	.33	.63	.31	1.22	.71	11772	.39	.09
-12.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12420	0.00	0.00
-7.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11388	0.00	0.00
-2.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10824	0.00	0.00
2.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9612	0.00	0.00
7.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6204	0.00	0.00

OMNIDIRECTIONAL FLUX SUMMARY VS LATITUDE FOR LONGITUDE= 32.5

LAT + 5 ENERGIES WITH RMS ERROR + NO OF OBS + LINE TOTALS

-57.5	0.00	0.00	0.00	0.00	0.00	0.00	.27	.27	5.66	2.00	6780	.32	.11
-52.5	0.00	0.00	.22	.11	0.00	0.00	.21	.15	1.93	.73	17448	.18	.05
-47.5	0.00	0.00	.06	.06	.30	.17	5.71	.82	54.81	4.07	15852	3.54	.23
-42.5	.34	.11	1.60	.31	6.58	.40	40.09	2.12	196.25	7.55	16535	16.55	.49
-37.5	1.45	.24	3.74	.50	9.78	1.04	76.68	3.14	271.71	9.52	14399	26.55	.67
-32.5	3.04	.35	5.96	.64	11.52	1.14	49.05	2.52	133.24	6.59	14303	17.52	.54
-27.5	3.60	.39	4.75	.59	6.43	.78	16.94	1.54	27.66	3.17	13188	7.24	.36
-22.5	1.03	.19	2.09	.35	1.56	.39	2.58	.54	2.63	.88	16439	1.65	.16
-17.5	.10	.06	0.00	0.00	.10	.10	.11	.11	0.00	0.00	16164	.07	.03
-12.5	0.00	0.00	0.00	0.00	.28	.16	0.00	0.00	0.00	0.00	17388	.04	.02
-7.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8844	0.00	0.00
-2.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7856	0.00	0.00
2.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10812	0.00	0.00
7.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1764	0.00	0.00

OMNIDIRECTIONAL FLUX SUMMARY VS LATITUDE FOR LONGITUDE= 37.5

LAT + 5 ENERGIES WITH RMS ERROR + NO OF OBS + LINE TOTALS

-57.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3060	0.00	0.00
-52.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.10	.55	17448	.06	.03
-47.5	0.00	0.00	0.00	0.00	.09	.09	2.76	.54	26.23	2.59	17388	1.68	.15
-42.5	.16	.07	.40	.15	4.62	.65	24.75	1.63	116.51	5.59	17304	9.98	.37
-37.5	.70	.15	2.80	.39	8.07	.85	43.63	2.12	158.62	6.53	17856	15.79	.46
-32.5	1.81	.23	4.12	.46	7.25	.79	22.53	1.49	65.99	4.11	18768	9.09	.34
-27.5	1.61	.22	2.31	.35	3.34	.54	5.88	.77	9.76	1.50	18204	3.01	.20
-22.5	.68	.15	.50	.17	1.01	.30	.64	.30	.55	.39	17508	.70	.10
-17.5	0.00	0.00	.06	.06	0.00	0.00	0.00	0.00	0.00	0.00	15624	.02	.02
-12.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12312	0.00	0.00
-7.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	504	0.00	0.00
-2.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	852	0.00	0.00
2.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2100	0.00	0.00

OMNIDIRECTIONAL FLUX SUMMARY VS LATITUDE FOR LONGITUDE= 42.5
LAT + 5 ENERGIES WITH RMS ERROR + NO OF OBS + LINE TOTALS

-57.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	36	0.00	0.00
-52.5	0.00	0.00	0.00	0.00	.19	.14	0.00	0.00	.58	.41	16476	.06	.03
-47.5	0.00	0.00	0.00	0.00	.17	.12	1.45	.37	12.05	1.74	19123	.82	.10
-42.5	.03	.03	.53	.17	2.42	.46	17.29	1.15	72.21	4.33	18480	5.84	.28
-37.5	.40	.11	1.24	.25	3.32	.52	20.02	1.37	63.23	3.92	19740	6.74	.29
-32.5	.91	.16	1.72	.29	3.05	.49	5.38	.77	17.31	2.04	19969	2.96	.19
-27.5	.52	.12	.52	.16	1.09	.29	1.80	.40	1.64	.52	20544	.83	.10
-22.5	.28	.09	.19	.10	.16	.11	.18	.13	0.00	0.00	20232	.21	.05
-17.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19704	0.00	0.00
-12.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4032	0.00	0.00

OMNIDIRECTIONAL FLUX SUMMARY VS LATITUDE FOR LONGITUDE= 47.5
LAT + 5 ENERGIES WITH RMS ERROR + NO OF OBS + LINE TOTALS

-52.5	0.00	0.00	.15	.10	0.00	0.00	0.00	0.00	0.00	0.00	13416	.04	.03
-47.5	0.00	0.00	0.00	0.00	0.00	0.00	.57	.23	7.67	1.38	19392	.46	.08
-42.5	.06	.04	0.00	0.00	1.12	.30	5.27	.70	26.19	2.51	19980	2.19	.16
-37.5	.14	.06	.35	.13	1.53	.35	4.09	.62	14.01	1.94	19872	1.61	.14
-32.5	.43	.11	.37	.14	.34	.17	.80	.28	2.33	.78	18576	.54	.08
-27.5	.03	.03	.22	.11	.09	.09	0.00	0.00	.54	.38	17856	.11	.04
-22.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18252	0.00	0.00
-17.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8820	0.00	0.00

OMNIDIRECTIONAL FLUX SUMMARY VS LATITUDE FOR LONGITUDE= 52.5
LAT + 5 ENERGIES WITH RMS ERROR + NO OF OBS + LINE TOTALS

-52.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9984	0.00	0.00
-47.5	.03	.03	0.00	0.00	.07	.07	.51	.21	2.45	.74	21528	.21	.05
-42.5	.05	.04	.05	.05	.38	.17	.97	.29	9.17	1.45	20940	.68	.09
-37.5	.08	.05	.05	.05	.08	.08	.27	.16	.47	.34	20220	.12	.04
-32.5	0.00	0.00	0.00	0.00	.09	.09	0.00	0.00	.26	.26	18780	.03	.02
-27.5	0.00	0.00	0.00	0.00	0.00	0.00	.48	.24	.63	.44	15324	.09	.04
-22.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4536	0.00	0.00

P72-1 PROCESSING BEGUN IN OMSDJ 16/07/73 15.14.32. FILE NO. 1

LONGITUDE SUMMARY

LONG +	5 ENERGIES +					NO OF OBS +	LINE TOTAL
222.5	0	1	3	0	0	54572	4
227.5	0	0	0	0	0	41172	0
232.5	0	0	0	0	0	51984	0
237.5	1	0	0	0	0	57192	1
242.5	1	0	0	0	0	77616	1
247.5	0	0	0	0	0	72131	0
252.5	0	1	0	0	0	64248	1
257.5	3	0	0	0	0	65100	3
262.5	0	0	0	0	0	61236	0
267.5	5	4	3	1	3	90912	16
272.5	18	11	8	8	1	96660	46
277.5	90	29	32	23	11	92291	185
282.5	221	151	70	84	28	96544	554
287.5	585	333	215	221	83	99815	1437
292.5	1262	761	486	443	178	135717	3150
297.5	3298	2011	1223	1262	468	178151	8262
302.5	6059	3781	2276	2439	1030	216921	15585
307.5	8267	5490	3456	4272	1948	241420	23463
312.5	8573	5540	3777	5103	2579	244248	25572
317.5	7774	5273	3723	5673	3155	243922	25598
322.5	5322	3900	3100	5889	4014	171956	22225
327.5	3689	2542	2226	4941	3907	141663	17405
332.5	2514	1825	1655	3813	3087	119332	12894
337.5	2300	1518	1361	2969	2522	121799	10770
342.5	2655	1989	1729	3892	3409	102908	13674
347.5	1380	1280	1405	4878	5122	80591	14065
352.5	720	521	711	2259	2690	74285	7001
357.5	552	410	397	1006	1172	72786	3617
2.5	284	327	465	1856	2502	50251	5434
7.5	209	231	326	1576	2345	53255	4687
12.5	270	237	250	905	1015	92456	2677
17.5	335	376	400	1643	2436	122358	5190
22.5	364	444	676	2813	4193	153858	8490
27.5	404	466	638	2556	3706	187680	7770
32.5	241	273	335	1534	2169	177772	4552
37.5	160	190	275	975	1406	158928	3006
42.5	76	85	127	453	667	158340	1408
47.5	22	26	38	115	209	176164	404
52.5	6	2	8	24	56	111312	96
0.1	57660	40342	31424	55706	56111	4509551	249243

P72-. PROCESSING BEGUN IN OMSDJ 16/07/78 15.14.32. FILE NO. 1

PITCH ANGLE SUMMARY

PA + 5 ENERGIES + NO OF OBS + LINE TOTAL

89	6715	4632	3767	8557	7632	102288	31507
87	6565	4544	3550	8453	7499	102545	30921
85	6324	4474	3595	7375	6997	101951	29265
83	6094	4248	3451	7447	6618	102713	27858
81	5355	3820	3106	6495	5808	102090	24584
79	4966	3784	2792	5521	5017	102425	21680
77	4304	3015	2375	4779	4182	102556	18656
75	3615	2437	1955	3353	3420	102530	15380
73	2897	2043	1554	2959	2560	102406	12013
71	2479	1593	1207	2245	2002	102716	9526
69	1800	1243	908	1538	1479	102775	7068
67	1421	1005	634	1060	981	102657	5101
65	999	705	431	708	657	102885	3503
63	755	522	349	335	381	102944	2392
61	535	379	227	301	213	102903	1655
59	381	263	158	216	112	103343	1130
57	310	231	121	111	64	103213	837
55	237	172	98	102	50	103620	659
53	169	140	69	77	33	103743	488
51	176	122	80	74	32	103892	484
49	129	100	73	59	24	104242	385
47	128	71	54	46	25	104110	325
45	97	97	48	59	31	104019	332
43	83	80	40	52	22	105175	277
41	99	60	43	46	15	105461	263
39	78	62	31	42	17	106158	230
37	74	55	33	31	10	106730	203
35	68	50	36	27	23	107908	204
33	62	55	27	29	22	108668	196
31	54	45	27	29	16	110410	171
29	687	490	285	320	168	1389275	1950
0	57660	40342	31424	63706	56111	4509551	249243

P72-1 PROCESSING BEGUN IN OMSDJ 05/07/78 15.14.32. FILE NO. 1

LAT SUMMARY

LAT + 5 ENERGIES + NO OF OBS + LINE TOTAL

-67.5	2	1	3	9	54	158039	69
-62.5	18	15	46	242	493	164763	814
-57.5	70	137	265	1368	2211	211788	4051
-52.5	553	600	887	3875	5637	287565	11552
-47.5	1773	1710	2295	8037	9752	310207	23567
-42.5	4186	3647	4232	12521	13401	314921	37987
-37.5	7936	5951	5430	13458	11999	320832	44744
-32.5	11137	7807	5803	10207	6827	324699	41781
-27.5	11463	7598	4937	5450	2996	327067	33564
-22.5	9185	5869	3494	3514	1333	326563	23395
-17.5	6115	3900	2096	2182	749	324803	14942
-12.5	3389	1973	1229	1160	430	343575	8181
-7.5	1427	887	575	517	175	351807	3581
-2.5	337	203	140	144	50	358221	874
2.5	47	40	18	19	4	243396	128
7.5	2	4	4	3	0	171700	13
0.0	57660	40342	31424	63706	56111	4509551	249243

END OF FILE ON OMSDJ

OMSDJ PROCESSING TIME 79.884

PHG/R. C. Filz/3240

11 July 1978

1972-076B-01

Dr. J. I. Vette
NSSDC
NASA Goddard Space Flight Center
Greenbelt, MD

Dear Jim

As promised I am sending you a computer magnetic tape (Label Vette 3) which contains a complete set of raw data from the particle identifier instrument flown on Air Force flight 72-1. A data set description and sample program with output are also included.

The data have been cumulated in a $1^{\circ} \times 1^{\circ}$ latitude - longitude sort for the period October 2, 1972 through Feb 1973. Since the 72-1 satellite orbit was circular, lying between the limits 740-760 Km during this period one can assign an altitude of 750 Km with little error. The $18 \times 1^{\circ}$ grid

PHG is sufficiently small to allow the calculation of the magnetic field parameters B and L for the central point and apply them to all of the data obtained within the grid boundaries.

PH For each $1^{\circ} \times 1^{\circ}$ grid the data are given for five energy intervals - (45.0 to 28.0) (28.0 to 18.2), (18.2 - 12.2), (12.2 - 7.0), and (7.0 to 5.0) MeV and 31 pitch angle intervals with the boundaries - 90, 88, 86, 84, 82, 80, 78, 76, 74, 72, 70, 68, 66, 64, 62, 60, 58, 56, 54, 52, 50, 48, 46, 44, 42, 40, 38, 36, 34, 32, 30 and 0°. These intervals were assigned using the IGRF 1965 model magnetic field for the date 1973.0. The azimuthal angle is unspecified.but should be unimportant for the following reasons:

1. The proton telescope axis is spinning in the satellite orbital plane (98.4° inclination).

2. The declination in the magnetic field does not vary too much within the South Atlantic anomaly.

3. The trapped proton gyroradii are less than ~ 50 Km and hence with the above conditions the guiding center altitude is about the same as the satellite altitude.

4. Any real variations should be averaged between the N → S and S → N passes.

PH, SUSC, PHG, Mr. Filz

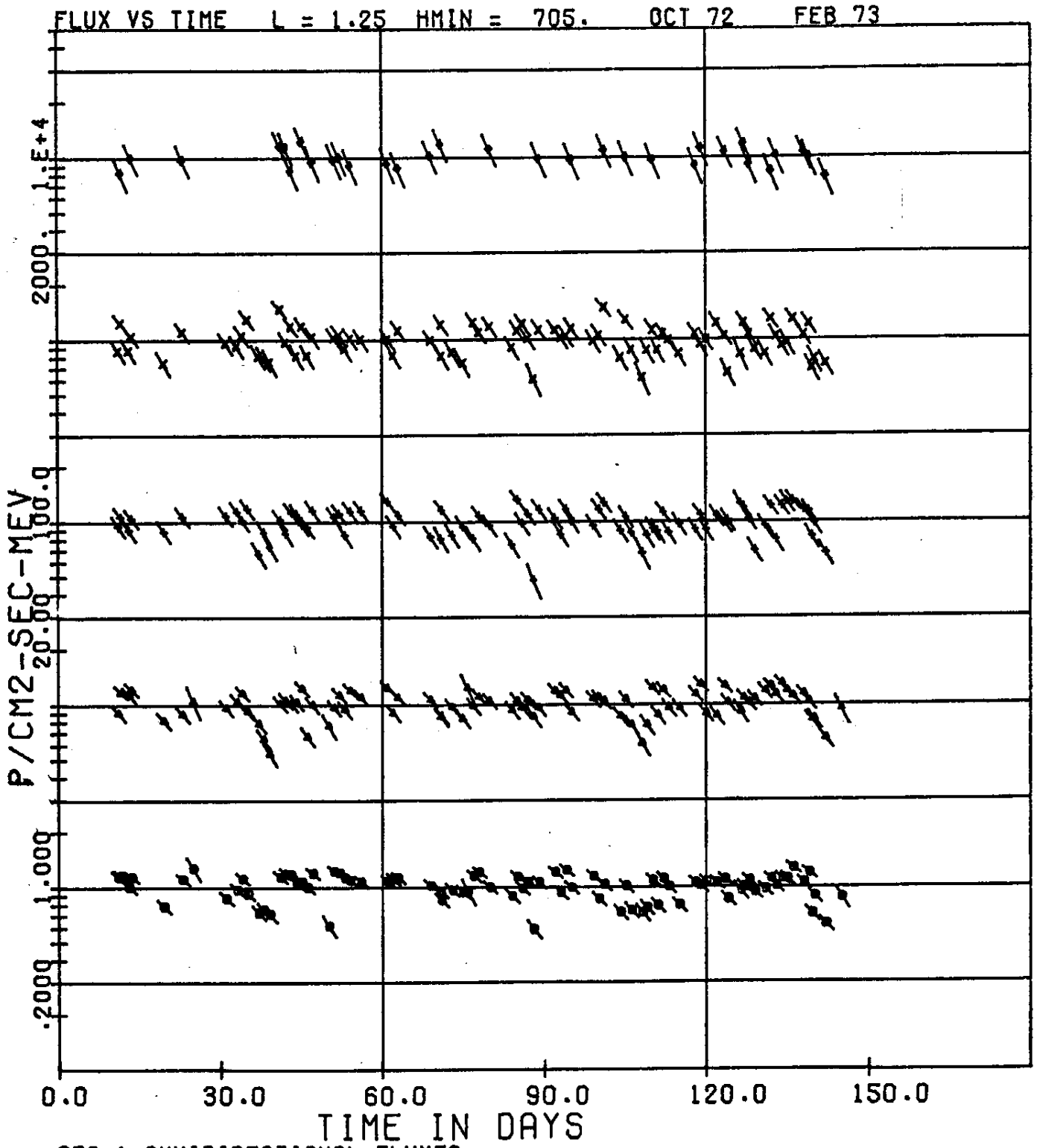
The largest error in the pitch angle variation should come from errors in the model field. The narrow width of the pitch angle distributions (page B 23) suggest no problem with the mirror plane directional flux ($j_{\perp}$): however, all things considered, the assignment of a guiding center altitude of 750 ± 10 Km to the data is probably justified. The minimum guiding center altitude is then dependent on B and L but never greater than 750 Km.

If you have any problems reading the tape or analyzing the data let me know. For format details, etc. call Ernie Holeman directly at (617)-862-0239. I will be away this summer from 17 July to 28 August so Ernie would be the best one to talk to during that period.

Sincerely

ROBERT C. FILZ
Magnetospheric Dynamics Branch
Space Physics Division

72-076B-01A



S72-1 OMNIDIRECTIONAL FLUXES.
CURVE AVGS 37.95. 41.01. 38.61. 43.25. 45.15
⊖ 36 MEV △ 23 MEV + 15 MEV × 9 MEV ◇ 6 MEV

DUMP OF TAPE ~~X416~~ RADSAT

D-31991, C-20126

INPUT TAPE X416 ON MS4
DATA INPUT H9 NF 5 FL 1 2 2 SR 5 1 2 SR 5 LAST 2

FILE 1 RECORD 1 LENGTH 3615BYTES

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(80)	00006000	00000000	00070000	00000000	00400000	0CCC0000	07000000	00000000	70000000	00000004
(120)	00000000	00000070	00000000	00000600	00000000	0CCC5000	00000000	00070000	00000000	00500000
(160)	00000000	04000000	00000000	70000000	00000005	0CCC0000	00000060	00000000	00000600	00000000
(200)	00005000	00000000	00060000	00000000	00600000	0CCC0000	04000000	00000000	80000000	00000005
(240)	00000000	000004E0	00000000	00003F00	00000000	0CCCD000	00000000	000F0000	00000000	00E00000
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(360)	00000000	000000F0	00000000	00000F00	00000000	0CCCE000	00000000	000E0000	00000000	00D00000
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(440)	0000E000	00000000	000F0000	00000000	01000000	0C000000	0F000000	00000001	10000000	0000000E
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(1000)	00000000	12000000	00000001	20000000	00000011	0CCC0000	00000130	00000000	00001000	00000000
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(1080)	00000000	00000110	00000000	00001200	00000000	0CC13000	00000000	00120000	00000000	01300000
(1120)	00000000	11000000	00000001	40000000	00000011	0CCC0000	00000110	00000000	00001400	00000000
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(1240)	00000000	08000000	00000000	90000000	00000009	0CCC0000	00000090	00000000	00000800	00000000
(1280)	0000A000	00000000	00080000	00000000	00B00000	0CC00000	09000000	00000000	70000000	0000000C
(1320)	00000000	00000080	00000000	00000800	00000000	0CCCB000	00000000	00090000	00000000	00900000
(1360)	00000000	0A000000	00000000	A0000000	0000000B	0CCC0000	000000B0	00000000	00000900	00000000
(1400)	0000A000	00000000	000A0000	00000000	00900000	0CCC0000	0B000000	00000000	90000000	0000000A
(1440)	00000000	00000930	00000000	00004400	00000000	0CCCD000	00000000	00100000	00000000	00B00000
(1480)	00000000	0F000000	00000001	00000000	0000000B	0CCC0000	000000D0	00000000	00001300	00000000
(1520)	0000A000	00000000	000D0000	00000000	01000000	0CCC0000	0C000000	00000000	F0000000	0000000E
(1560)	00000000	000000B0	00000000	00000F00	00000000	0CCCF000	00000000	000A0000	00000000	00E00000
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(1720)	00000000	0F000000	00000000	E0000000	0000000F	0C000000	00000110	00000000	00000D00	00000000
(1760)	00012000	00000000	000E0000	00000000	01000000	0CCC0000	0F000000	00000001	00000000	0000000E
(1800)	00000000	00000120	00000000	00001000	00000000	0CCCF000	00000000	00130000	00000000	00E00000
(1840)	00000000	0F000000	00000001	30000000	0000000D	0CCC0000	00000110	00000000	00001200	00000000
(1880)	0000C000	00000000	00140000	00000000	01300000	0CC00000	0B000000	00000001	50000000	00000012
(1920)	00000000	00000D10	00000000	00004600	0000000C	0CCCF000	00000000	00120000	00000000	01C00000
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( 3320)  6DB6DB6D  B6DB6DB6  DB6DB6DB  6DB6DB6D  B6DB6DB6  DB6DB6DB  6DB6DB6D  B6DB6DB6  DB6DB6DB  6DB6DB6D
( 3360)  B6DB6DB6  DB6DB6DB  6DB6DB6D  B6DB6DB6  DB6DB6DB  6DB6DB6D  B6DB6DB6  DB6DB6DB  6DB6DB6D  B6DB6DB6
( 3400)  DB6DB6DB  6DB6DB6D  B6DB6DB6  DB6DB6DB  6DB6DB6D  B6DB6DB6  DB6DB6DB  6DB6DB6D  B6DB6DB6  DB6DB6DB
( 3440)  6DB6DB6D  B6DB6DB6  DB6DB6DB  6DB6DB6D  B6DB6DB6  DB6DB6DB  6DB6DB6D  B6DB6DB6  DB6DB6DB  6DB6DB6D
( 3480)  B6DB6DB6  DB6DB6DB  6DB6DB6D  B6DB6DB6  DB6DB6DB  6DB6DB6D  B6DB6DB6  DB6DB6DB  6DB6DB6D  B6DB6DB6
( 3520)  DB6DB6DB  6DB6DB6D  B6DB6DB6  DB6DB6DB  6DB6DB6D  B6DB6DB6  DB6DB6DB  6DB6DB6D  B6DB6DB6  DB6DB6DB
( 3560)  6DB6DB6D  B6DB6DB6  DB6DB6DB  6DB6DB6D  B6DB6DB6  DB6DB6DB  6DB6DB6D  B6DB6DB6  DB6DB6DB  6DB6DB6D
( 3600)  B6DB6DB6  DB6DB6DB  6DB6DB6D  B6DB6D
```

FILE	INPUT RECS.	DATA RECORDS INPUT	MAX. SIZE	READ ERROR SUMMARY PERM	ZERO B	SHORT	UNDEF.	INPUT RETRIES #RECS.	TOTAL#
5	671	673	3615	0	2	0	0	2	2

EOJ DUMP STOPPED AFTER FILE 5 # OF PERMANENT READ ERRORS 0

START TIME 09/13/78 20:15:42 STOP TIME 09/13/78 20:17:52

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