DATA SET CATALOG # 181

67-060A-03B 1 tape

MARINER 5, 1 HOUR AVERAGE

PLASMA PARAMETER

Table of Contents

1. Introduction

2. Errata/Change Log

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

4. Catalog Materials

    a. Associated Documents

    b. Core Catalog Materials

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1. INTRODUCTION:

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 This inventory information is now no longer maintained in the DSCs, but is now managed in the inventory part of the NSSDC information system.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

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

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

2. ERRATA/CHANGE LOG:

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

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

Version	Date	Person	Page	Description of Change
01				
02				

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

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

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

4. CATALOG MATERIALS:

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

b. Core Catalog Materials

MARINER 5

ONE HOUR AVG PLASMA PARAM.ON TAPE

67-060A-03B

This data set has been restored. There was originally one 7-track, 556 BPI tape written in BCD. There is one restored tape written in ASCII. The DR tape is a 3480 cartridge and the DS tape is 9-track, 6250 BPI. The original tape was created on a 7094 computer and the restored tape was created on an IBM 9021 computer. The DR and DS numbers along with the corresponding D number are as follows:

DR#	DS#	D#	FILES	TIME SPAN
DR004825	DS004825	D010231	1	06/14/67 - 11/21/67

67-060A-03B

MARINER 5

1 HOUR AVERAGE PLASMA PARAMETER

This data set consists of one 556, 7 track, BCD, magnetic tape.

D#	C#	FILE	START	STOP
D-10231	C-07718	1	6/14/67 -	11/21/67

67-060A-03B

Mariner Venus

Average Data

The data are one hour averages of the quantities described below. The printout for a parameter x gives

a) the mean value $\equiv \frac{\sum_{i=1}^{n} x_i}{n} = \bar{x}$

and

b) the standard deviation $\equiv \sqrt{\frac{\sum_{i=1}^{n} (x_i - \bar{x})^2}{n-1}} = S_x$

n = the number of data samples (≡ entries)

The latter quantity is, of course, an estimate of the standard deviation of the parent population. If only one data point is available for the time interval, we have set $S_x = 0$. The form of the printout is

$$\bar{x} \quad (S_x)$$

The variables shown on the printout are the following:

Time:

Year = 1967

D = Calendar day (January 1 = 1)

H = Hour (0 to 23)

Plasma parameters:

The velocity vector, with all aberration effects removed, is described in two coordinate systems:

1) Ecliptic-RTN. The R-direction is the Sun-spacecraft line. T is the direction parallel to the ecliptic plane and positive in the direction of planetary motion. N completes the

orthogonal right-handed coordinate system.

2) Equatorial-RTN. R is as before. T is parallel to the solar equatorial plane, and N completes the triplet.

VT and VN are the transverse velocities in the Equatorial-RTN system. The units are km/sec.

EW is the flow angle in the ecliptic-RTN system.

EW(degrees) = $-\tan^{-1}\left(\frac{VT\ ecliptic}{VR}\right)$; a positive angle indicates flow coming from West of the Sun.

NS is the flow angle out of the RT ecliptic plane.

NS(degrees) = $\tan^{-1}\left(\frac{VN\ ecliptic}{VR}\right)$; a positive angle indicates flow coming from North of RT ecliptic plane.

Note that for most of the flight; the spacecraft was above the solar equatorial plane.

XSE, YSE, ZSE are the coordinates of the spacecraft in a heliocentric ecliptic frame. The origin is at the sun, XSE points at the vernal equinox (i.e. the direction an observer on the sun would look to see the earth at the time of the autumnal equinox; ZSE points along the ecliptic north pole, and YSE completes the right-handed coordinate system.

Additional information on the Mariner Venus average parameter tapes.

Magnetic tapes may be read using the FORTRAN statement:

```
INTEGER  YEAR,DAY,HOUR
READ(11 ,100)YEAR,DAY,HOUR,(AVE(K),SD(K),K=1,14),ENTRY,XSE,YSE,ZSE
100  FORMAT(3I4,29E12.3,3E14.7)
```

where the variables "AVE" are

K		
1	proton bulk speed	km/sec
2	" number density	/cc
3	" most probable thermal speed	km/sec
4	EW	degrees
5	NS	degrees
6	VT(equatorial)	km/sec
7	VN(equatorial)	km/sec
8	flux(bulk speed * number density)	km/sec - cc
9	BR	γ
10	BT ecliptic	γ
11	BN ecliptic	γ
12	B(magnitude)	γ
13	BT equatorial	γ
14	BN equatorial	γ

SD is the standard deviation for each variable as discussed above, and ENTRY is the number of observations in the particular one hour interval.

The 7-track, 556 BPI tape was written using the following DD cards (IBM 360):

```
//G.FT11F001 DD UNIT=TAPE7,DISP=(OLD,DELETE),LABEL=(1,NL),          *
//              DCB=(RECFM=F,BLKSIZE=402,TRTCH=ET,DEN=1),           *
//              VOL=SER=MV1HR
```

Each 8-bit EBCDIC character in the 360 has been translated into the equivalent 6-bit BCD character:

3I4	= 3 x 4	= 12 characters
29(E12.3)	= 29 x 12	= 348 characters
3(E14.7)	= 3 x 14	= 42 characters
Giving a total of		402 characters/record

There are no control words.

The tape ends with an end-of-file mark.

1st 200 records of Mariner 5 tape

D-10231

1967 165 16 -0.388E 03 0.620E 01 0.753E 01 0.423E 00 0.404E 02 0.441E 01 -0.531E 01 0 REC 1, LENGTH 402
.154E 01 -0.169E 01 0.855E 00 0.343E 02 0.106E 02 0.158E 02 0.574E 01 0.292E 04 0.200
E 03 -0.566E 01 0.814E 00 0.496E 00 0.336E 01 0.104E 01 0.324E 01 0.834E 01 0.385E 00
0.362E 00 0.339E 01 0.110E 01 0.320E 01 0.129E 02-0.1881211E 08-0.1507072E 09-0.8516825E
05

1967 165 17 0.367E 03 0.188E 02 0.692E 01 0.711E 00 0.391E 02 0.526E 01 -0.225E 01 0 REC 2, LENGTH 402
.238E 01 -0.326E 01 0.756E 00 0.132E 02 0.182E 02 0.244E 02 0.554E 01 0.274E 04 0.266
E 03 -0.660E 01 0.196E 01 -0.556E 00 0.356E 01 -0.321E 00 0.306E 01 0.854E 01 0.470E 00
-0.514E 00 0.354E 01 -0.388E 00 0.308E 01 0.120E 02-0.1871733E 08-0.1507137E 09-0.9155588E
05

1967 165 18 0.428E 03 0.115E 02 0.716E 01 0.555E 00 0.489E 02 0.688E 01 -0.490E 01 0 REC 3, LENGTH 402
.135E 01 -0.158E 01 0.939E 00 0.350E 02 0.995E 01 0.164E 02 0.824E 01 0.306E 04 0.255
E 03 -0.320E 01 0.140E 01 0.751E 00 0.530E 01 0.105E 01 0.557E 01 0.872E 01 0.734E 00
0.613E 00 0.537E 01 0.114E 01 0.551E 01 0.120E 02-0.1862250E 08-0.1507202E 09-0.9789063E
05

1967 165 19 0.422E 03 0.131E 02 0.778E 01 0.124E 01 0.526E 02 0.137E 02 -0.420E 01 0 REC 4, LENGTH 402
.201E 01 -0.155E 01 0.100E 01 0.294E 02 0.151E 02 0.152E 02 0.719E 01 0.328E 04 0.538
E 03 -0.512E 01 0.129E 01 0.751E 00 0.450E 01 0.200E 01 0.466E 01 0.911E 01 0.690E 00
0.496E 00 0.458E 01 0.207E 01 0.458E 01 0.120E 02-0.1852766E 08-0.1507266E 09-0.1041681E
06

1967 165 20 0.435E 03 0.545E 01 0.729E 01 0.251E 00 0.470E 02 0.535E 01 -0.465E 01 0 REC 5, LENGTH 402
.104E 01 -0.285E 01 0.149E 01 0.323E 02 0.779E 01 0.259E 02 0.115E 02 0.317E 04 0.105
E 03 -0.425E 01 0.756E 00 0.919E 00 0.544E 01 0.295E 00 0.576E 01 0.928E 01 0.764E 00
0.875E 00 0.532E 01 0.407E 00 0.587E 01 0.120E 02-0.1843253E 08-0.1507331E 09-0.1104123E
06

1967 165 21 0.422E 03 0.146E 02 0.770E 01 0.125E 01 0.490E 02 0.101E 02 -0.150E 01 0 REC 6, LENGTH 402
.304E 01 -0.344E 01 0.126E 01 0.763E 01 0.221E 02 0.265E 02 0.104E 02 0.325E 04 0.525
E 03 -0.508E 01 0.147E 01 0.570E 00 0.384E 01 0.239E 01 0.368E 01 0.836E 01 0.530E 00
0.267E 00 0.385E 01 0.244E 01 0.367E 01 0.120E 02-0.1833773E 08-0.1507394E 09-0.1165771E
06

1967 165 22 0.450E 03 0.212E 02 0.681E 01 0.182E 01 0.495E 02 0.151E 02 -0.450E 01 0 REC 7, LENGTH 402
.811E 00 -0.399E 01 0.238E 01 0.312E 02 0.709E 01 0.356E 02 0.190E 02 0.309E 04 0.894
E 03 0.624E 00 0.133E 01 0.355E 01 0.413E 01 0.149E 00 0.465E 01 0.759E 01 0.111E 01
0.350E 01 0.390E 01 0.591E 00 0.488E 01 0.800E 01-0.1825803E 08-0.1507448E 09-0.1217189E
06

1967 166 1 0.449E 03 0.168E 02 0.618E 01 0.102E 01 0.529E 02 0.129E 02 -0.449E 00 0 REC 8, LENGTH 402
.237E 01 -0.108E 01 0.166E 01 0.270E 01 0.173E 02 0.915E 01 0.148E 02 0.277E 04 0.449
E 03 -0.190E 01 0.166E 01 0.215E 01 0.333E 01 -0.246E 01 0.265E 01 0.653E 01 0.449E 00
0.244E 01 0.304E 01 -0.217E 01 0.298E 01 0.102E 02-0.1795702E 08-0.1507648E 09-0.1407825E
06

1967 166 2 0.428E 03 0.116E 02 0.662E 01 0.192E 01 0.570E 02 0.199E 02 -0.365E 00 0 REC 9, LENGTH 402
.231E 01 -0.171E 01 0.131E 01 0.128E 01 0.162E 02 0.131E 02 0.112E 02 0.282E 04 0.779
E 03 -0.392E 01 0.125E 01 0.185E 01 0.303E 01 -0.701E 00 0.209E 01 0.635E 01 0.456E 00
0.192E 01 0.289E 01 -0.464E 00 0.233E 01 0.120E 02-0.1786883E 08-0.1507704E 09-0.1462633E
06

1967 166 3 0.420E 03 0.340E 01 0.664E 01 0.390E 00 0.578E 02 0.834E 01 -0.640E 00 0 REC 10, LENGTH 402
.112E 01 -0.202E 01 0.155E 01 0.285E 01 0.758E 01 0.153E 02 0.118E 02 0.280E 04 0.432
E 03 -0.462E 01 0.665E 00 0.222E 01 0.211E 01 0.254E 00 0.203E 01 0.618E 01 0.344E 00
0.217E 01 0.197E 01 0.529E 00 0.217E 01 0.120E 02-0.1777413E 08-0.1507768E 09-0.1520961E
06

1967 166 4 0.41[illegible]E 03 0.937E 01 0.621E 01 0.665E 00 0.510E 02 0.760E 01 0.133E 01 0 REC 11, LENGTH 402
.224E 01 -0.308E 00 0.225E 01 -0.987E 01 0.151E 02 0.764E 00 0.173E 02 0.246E 04 0.286
E 03 -0.5[illegible]E 01 0.601E 00 0.591E 00 0.134E 01 -0.102E 01 0.262E 01 0.660E 01 0.264E 00

0.713E 00 0.114E 01 -0.937E 00 0.272E 01 0.120E 02-0.1757773E 08-0.1507830E 09-0.1575773E

06

1967 166 5 0.425E 03 0.103E 02 0.624E 01 0.625E 00 0.540E 02 0.638E 01 0.167E 01 0 REC 12, LENGTH 402
.108E 01 0.254E 01 0.523E 00 -0.988E 01 0.806E 01 -0.203E 02 0.407E 01 0.265E 04 0.284
E 03 -0.309E 01 0.115E 01 -0.917E 00 0.167E 01 -0.551E 01 0.860E 00 0.685E 01 0.186E 00
-0.222E 00 0.164E 01 -0.558E 01 0.908E 00 0.110E 02-0.1758034E 08-0.1507893E 09-0.1638627E

06

1967 166 6 0.428E 03 0.148E 02 0.631E 01 0.813E 00 0.506E 02 0.119E 02 -0.116E 01 0 REC 13, LENGTH 402
.146E 01 -0.393E 00 0.220E 01 0.790E 01 0.983E 01 0.879E 01 0.169E 02 0.270E 04 0.311
E 03 -0.208E 01 0.183E 01 0.386E 01 0.191E 01 -0.128E 00 0.304E 01 0.619E 01 0.137E 00
0.386E 01 0.157E 01 0.366E 00 0.323E 01 0.120E 02-0.1748548E 08-0.1507955E 09-0.1694801E

06

1967 166 7 0.417E 03 0.117E 02 0.652E 01 0.933E 00 0.550E 02 0.112E 02 -0.321E 00 0 REC 14, LENGTH 402
.917E 00 -0.951E 00 0.246E 01 0.149E 01 0.579E 01 0.741E 01 0.183E 02 0.272E 04 0.386
E 03 -0.352E 01 0.127E 01 0.299E 01 0.143E 01 0.667E 00 0.264E 01 0.605E 01 0.156E 00
0.288E 01 0.134E 01 0.103E 01 0.268E 01 0.120E 02-0.1739131E 08-0.1508014E 09-0.1751213E

06

1967 166 8 0.438E 03 0.793E 01 0.558E 01 0.656E 00 0.442E 02 0.799E 01 -0.457E 00 0 REC 15, LENGTH 402
.108E 01 -0.176E 01 0.162E 01 0.168E 01 0.885E 01 0.138E 02 0.120E 02 0.244E 04 0.278
E 03 0.268E 00 0.918E 00 0.430E 01 0.954E 00 0.221E 01 0.271E 01 0.602E 01 0.210E 00
0.399E 01 0.103E 01 0.273E 01 0.267E 01 0.120E 02-0.1729490E 08-0.1508078E 09-0.1807816E

06

1967 166 9 0.410E 03 0.867E 01 0.678E 01 0.173E 01 0.554E 02 0.181E 02 0.316E 00 0 REC 16, LENGTH 402
.105E 01 -0.303E 01 0.749E 00 -0.491E 01 0.755E 01 0.213E 02 0.547E 01 0.278E 04 0.729
E 03 -0.346E 01 0.120E 01 0.352E 01 0.910E 00 0.337E 01 0.147E 01 0.641E 01 0.187E 00
0.377E 01 0.102E 01 0.378E 01 0.139E 01 0.120E 02-0.1719950E 08-0.1508137E 09-0.1863276E

06

1967 166 1 0.415E 03 0.43E 01 0.595E 01 0.373E 00 0.471E 02 0.609E 01 -0.865E 00 0 REC 17, LENGTH 402
.814E 00 -0.126E 01 0.867E 00 0.510E 01 0.607E 01 0.981E 01 0.607E 01 0.247E 04 0.139
E 03 -0.205E 01 0.525E 00 0.440E 01 0.311E 00 0.269E 01 0.210E 01 0.608E 01 0.138E 00
0.403E 01 0.448E 00 0.322E 01 0.207E 01 0.120E 02-0.1710306E 08-0.1508199E 09-0.1918783E

06

1967 166 11 0.357E 03 0.199E 02 0.556E 01 0.691E 00 0.421E 02 0.850E 01 0.762E 00 0 REC 18, LENGTH 402
.185E 01 -0.794E 00 0.235E 01 -0.548E 01 0.116E 02 0.537E 01 0.170E 02 0.221E 04 0.295
E 03 -0.37E 01 0.185E 01 0.150E 01 0.274E 01 0.134E 01 0.336E 01 0.628E 01 0.231E 00
0.132E 01 0.236E 01 0.152E 01 0.364E 01 0.900E 01-0.1700954E 08-0.1508259E 09-0.1972073E

06

1967 166 12 0.419E 03 0.112E 02 0.519E 01 0.490E 00 0.416E 02 0.551E 01 -0.102E 01 0 REC 19, LENGTH 402
.112E 01 -0.186E 01 0.103E 01 0.585E 01 0.882E 01 0.143E 02 0.662E 01 0.217E 04 0.208
E 03 -0.129E 01 0.116E 01 0.474E 01 0.910E 00 0.335E 01 0.862E 00 0.626E 01 0.121E 00
0.428E 01 0.100E 01 0.392E 01 0.755E 00 0.110E 02-0.1691494E 08-0.1508317E 09-0.2025463E

06

1967 166 13 0.431E 03 0.223E 02 0.520E 01 0.630E 00 0.431E 02 0.610E 01 -0.707E 00 0 REC 20, LENGTH 402
.628E 00 -0.294E 00 0.137E 01 0.506E 01 0.431E 01 0.256E 01 0.827E 01 0.223E 04 0.235
E 03 -0.108E-01 0.286E 01 0.396E 01 0.802E 00 0.158E 01 0.178E 01 0.562E 01 0.318E 00
0.373E 01 0.713E 00 0.206E 01 0.181E 01 0.120E 02-0.1682288E 08-0.1508375E 09-0.2076901E

06

1967 166 14 0.431E 03 0.455E 01 0.500E 01 0.305E 00 0.389E 02 0.447E 01 -0.105E 01 0 REC 21, LENGTH 402
.788E 00 -0.277E 00 0.109E 01 0.702E 01 0.616E 01 0.753E 01 0.797E 01 0.215E 04 0.142
E 03 -0.525E 00 0.833E 00 0.383E 01 0.753E 00 0.248E 01 0.169E 01 0.513E 01 0.335E 00
0.349E 01 0.817E 00 0.294E 01 0.166E 01 0.120E 02-0.1672642E 08-0.1508435E 09-0.2130261E

06

1967 166 15 0.432E 03 0.307E 01 -0.477E 01 0.333E 00 0.383E 02 0.367E 01 -0.127E 01 0 REC 22, LENGTH 402

.934E 00 -0.947E 00 0.746E 00 0.855E 01 0.728E 01 0.330E 01 0.538E 01 0.206E 04 0.155
E 03 -0.151E 00 0.451E 00 0.338E 01 0.61 E 01 0.346E 01 0.651E 00 0.509E 01 0.174E 00
0.292E 01 0.669E 00 0.385E 01 0.590E 00 0.125E 02-0.1663019E 08-0.1508495E 09-0.2182948E
06

1967 166 16 0.430E 03 0.998E 01 0.523E 01 0.114E 01 0.447E 02 0.126E 02 0.462E 00 0 REC 23, LENGTH 402
135E 01 -0.276E 00 0.162E 01 -0.372E 01 0.109E 02 0.175E 01 0.115E 02 0.226E 04 0.510
E 03 -0.196E 01 0.714E 00 0.142E 01 0.175E 01 0.217E 01 0.242E 01 0.443E 01 0.415E 00
0.114E 01 0.197E 01 0.233E 01 0.225E 01 0.120E 02-0.1653371E 08-0.1508554E 09-0.2235219E
06

1967 166 17 0.428E 03 0.134E 02 0.510E 01 0.951E 00 0.445E 02 0.110E 02 0.153E 01 0 REC 24, LENGTH 402
.144E 01 -0.138E 01 0.619E 00 -0.129E 02 0.112E 02 0.886E 01 0.426E 01 0.219E 04 0.429
E 03 -0.227E 01 0.117E 01 -0.117E 01 0.187E 01 0.307E 01 0.112E 01 0.488E 01 0.269E 00
-0.154E 01 0.192E 01 0.296E 01 0.102E 01 0.125E 02-0.1643716E 08-0.1508614E 09-0.2286981E
06

1967 166 18 0.439E 03 0.239E 01 0.519E 01 0.476E 00 0.438E 02 0.635E 01 -0.494E 00 0 REC 25, LENGTH 402
.879E 00 0.909E 00 0.173E 01 0.462E 01 0.631E 01 -0.643E 01 0.135E 02 0.228E 04 0.204
E 03 -0.116E 01 0.568E 00 0.301E 01 0.117E 01 -0.357E 00 0.327E 01 0.490E 01 0.155E 00
0.303E 01 0.104E 01 0.217E-01 0.331E 01 0.120E 02-0.1634705E 08-0.1508673E 09-0.2338144E
06

1967 166 19 0.433E 03 0.158E 02 0.469E 01 0.866E 00 0.404E 02 0.107E 02 -0.113E 00 0 REC 26, LENGTH 402
.159E 01 0.127E 01 0.197E 01 0.233E 01 0.105E 02 -0.909E 01 0.158E 02 0.203E 04 0.357
E 03 -0.946E 00 0.198E 01 0.660E 00 0.265E 01 -0.613E 00 0.292E 01 0.441E 01 0.752E 00
0.731E 00 0.180E 01 -0.526E 00 0.308E 01 0.110E 02-0.1624352E 08-0.1508732E 09-0.2389148E
06

1967 166 20 0.430E 03 0.102E 02 0.434E 01 0.524E 00 0.410E 02 0.892E 01 0.343E 00 0 REC 27, LENGTH 402
.121E 01 -0.382E 00 0.149E 01 -0.279E 01 0.894E 01 0.270E 01 0.111E 02 0.186E 04 0.189
E 03 -0.181E 01 0.143E 01 -0.448E-01 0.140E 01 0.252E 01 0.245E 01 0.468E 01 0.361E 00
-0.358E 00 0.134E 01 0.249E 01 0.249E 01 0.120E 02-0.1614737E 08-0.1508790E 09-0.2439060E
06

1967 166 21 0.424E 03 0.249E 02 0.459E 01 0.907E 00 0.483E 02 0.105E 02 -0.315E 00 0 REC 28, LENGTH 402
.559E 00 0.183E 01 0.115E 01 0.391E 01 0.403E 01 -0.129E 02 0.846E 01 0.196E 04 0.420
E 03 -0.206E 01 0.304E 01 -0.180E 00 0.561E 00 -0.658E 00 0.151E 01 0.416E 01 0.252E 00
-0.964E-01 0.510E 00 -0.675E 00 0.153E 01 0.110E 02-0.1655211E 08-0.1508848E 09-0.2487978E
06

1967 166 22 0.413E 03 0.657E 01 0.508E 01 0.370E 00 0.459E 02 0.826E 01 0.399E 00 0 REC 29, LENGTH 402
.812E 00 0.250E 01 0.459E 00 -0.599E 00 0.557E 01 -0.182E 02 0.388E 01 0.210E 04 0.170
E 03 -0.406E 01 0.388E 00 -0.571E 00 0.586E 00 -0.239E 01 0.523E 00 0.484E 01 0.229E 00
-0.269E 00 0.571E 00 -0.244E 01 0.539E 00 0.110E 02-0.1595789E 08-0.1508905E 09-0.2535850E
06

1967 166 23 0.413E 03 0.523E 01 0.513E 01 0.400E 00 0.481E 02 0.569E 01 -0.148E 01 0 REC 30, LENGTH 402
.418E 00 0.119E 01 0.947E 00 0.117E 02 0.320E 01 -0.720E 01 0.680E 01 0.212E 04 0.145
E 03 -0.390E 01 0.795E 00 0.196E 01 0.552E 00 -0.130E 01 0.103E 01 0.424E 01 0.581E 00
0.211E 01 0.563E 00 -0.105E 01 0.102E 01 0.120E 02-0.1586441E 08-0.1508961E 09-0.2582833E
06

1967 167 0 0.428E 03 0.285E 02 0.433E 01 0.241E 00 0.404E 02 0.541E 01 -0.158E 00 0 REC 31, LENGTH 402
.135E 01 -0.362E-01 0.122E 01 0.115E 01 0.101E 02 0.125E 01 0.947E 01 0.185E 04 0.168
E 03 -0.408E 00 0.298E 01 -0.862E-01 0.167E 01 0.794E 00 0.168E 01 0.403E 01 0.300E 00
-0.185E 00 0.169E 01 0.777E 00 0.166E 01 0.110E 02-0.1576691E 08-0.1509019E 09-0.2631285E
06

1967 167 1 0.417E 03 0.229E 02 0.458E 01 0.907E 00 0.444E 02 0.121E 02 0.533E 00 0 REC 32, LENGTH 402
.112E 01 0.461E 00 0.212E 01 -0.37E 01 0.397E 01 -0.321E 01 0.149E 02 0.190E 04 0.335
E 03 -0.197E 01 0.185E 01 -0.381E 00 0.101E 01 0.801E 00 0.322E 01 0.445E 01 0.450E 00
-0.477E 00 0.123E 01 0.747E 00 0.314E 01 0.120E 02-0.1567025E 08-0.1509076E 09-0.2678793E

.236E 01 -0.237E 01 0.304E 01 0.477E 02 0.913E 01 0.883E 01 0.184E 02 0.266E 04 0.938
E 03 -0.443E 01 0.126E 01 0.867E 01 0.387E 00 0.808E 00 0.210E 01 0.107E 02 0.229E 00
0.971E 01 0.449E 00 -0.146E 00 0.208E 01 0.300E 01-0.2711442E 08 0.9533558E 08-0.3443243E

06

1967 322 11 0.327E 03 0.135E 02 0.868E 01 0.162E 01 0.452E 02 0.243E 02 -0.684E 01 0 REC 170, LENGTH 402
.191E 01 -0.277E 01 0.458E 01 0.403E 02 0.128E 02 0.120E 02 0.250E 02 0.284E 04 0.516
E 03 -0.501E 01 0.119E 01 0.718E 01 0.188E 01 -0.439E 00 0.319E 01 0.102E 02 0.804E 00
0.709E 01 0.214E 01 -0.122E 01 0.302E 01 0.300E 01-0.2723934E 08 0.9528448E 08-0.3410514E

06

1967 322 12 0.331E 03 0.136E 02 0.802E 01 0.129E 01 0.391E 02 0.115E 02 -0.595E 01 0 REC 171, LENGTH 402
.200E 00 -0.198E 01 0.395E 01 0.349E 02 0.215E 01 0.717E 01 0.221E 02 0.266E 04 0.534
E 03 -0.520E 01 0.163E 01 0.457E 01 0.372E 01 0.293E 01 0.382E 01 0.981E 01 0.198E 00
0.486E 01 0.328E 01 0.242E 01 0.420E 01 0.200E 01-0.2734147E 08 0.9524267E 08-0.3383745E

06

1967 322 20 0.338E 03 0.0 0.718E 01 0.0 0.361E 02 0.0 -0.919E 01 0 REC 172, LENGTH 402
.0 0.337E 01 0.0 0.515E 02 0.0 -0.256E 02 0.0 0.243E 04 0.0
-0.353E 01 0.0 0.103E 02 0.0 -0.791E 00 0.0 0.112E 02 0.0
0.102E 02 0.0 -0.190E 01 0.0 0.100E 01-0.2839334E 08 0.9482942E 08-0.3107207E

06

1967 322 21 0.340E 03 0.934E 01 0.874E 01 0.311E 00 0.333E 02 0.870E 01 -0.612E 01 0 REC 173, LENGTH 402
.362E-01 0.687E 01 0.314E 00 0.316E 02 0.463E 02 -0.425E 02 0.302E 01 0.297E 04 0.243
E 02 -0.368E 01 0.969E 00 0.863E 01 0.328E 00 -0.710E 01 0.199E 00 0.107E 02 0.170E 00
0.582E 01 0.304E 00 -0.777E 01 0.233E 00 0.200E 01-0.2849691E 08 0.9475882E 08-0.3079896E

06

1967 322 22 0.322E 03 0.657E 01 0.833E 01 0.581E 00 0.347E 02 0.452E 01 -0.713E 01 0 REC 174, LENGTH 402
.665E 00 0.168E 01 0.344E 01 0.384E 02 0.367E 01 -0.138E 02 0.195E 02 0.269E 04 0.240
E 03 -0.429E 01 0.857E 00 0.808E 01 0.602E 00 -0.107E 01 0.425E 01 0.104E 02 0.182E 00
0.792E 01 0.108E 01 -0.154E 01 0.416E 01 0.300E 01-0.2859898E 08 0.9471514E 08-0.3052567E

06

1967 322 23 0.323E 03 0.771E 00 0.901E 01 0.129E 01 0.339E 02 0.546E 01 -0.573E 01 0 REC 175, LENGTH 402
.165E 01 -0.169E 01 0.184E 01 0.329E 02 0.871E 01 0.598E 01 0.108E 02 0.291E 04 0.412
E 03 -0.458E 01 0.563E 00 0.514E 01 0.270E 01 0.531E 01 0.400E 01 0.988E 01 0.178E 00
0.568E 01 0.227E 01 0.472E 01 0.426E 01 0.300E 01-0.2872352E 08 0.9466171E 08-0.3026086E

06

1967 323 0 0.338E 03 0.577E 01 0.111E 02 0.558E 00 0.360E 02 0.427E 01 -0.317E 01 0 REC 176, LENGTH 402
.176E 01 -0.233E 01 0.378E 00 0.199E 02 0.104E 02 0.115E 02 0.293E 01 0.374E 04 0.244
E 03 -0.265E 01 0.119E 01 0.299E 01 0.193E 01 0.870E 01 0.389E 00 0.102E 02 0.374E 00
0.391E 01 0.194E 01 0.833E 01 0.324E 00 0.300E 01-0.2884584E 08 0.9469906E 08-0.2987777E

06

1967 323 1 0.338E 03 0.129E 02 0.111E 02 0.188E 00 0.298E 02 0.176E 01 -0.287E 01 0 REC 177, LENGTH 402
.249E 01 -0.277E 01 0.783E 00 0.182E 02 0.136E 02 0.144E 02 0.635E 01 0.374E 04 0.159
E 03 -0.200E 01 0.208E 01 0.295E 01 0.256E 01 0.885E 01 0.213E 01 0.108E 02 0.291E 00
0.384E 01 0.241E 01 0.849E 01 0.229E 01 0.300E 01-0.2896949E 08 0.9455565E 08-0.2955052E

06

1967 323 2 0.327E 03 0.926E 01 0.131E 02 0.253E 01 0.465E 02 0.109E 02 -0.673E 01 0 REC 178, LENGTH 402
.110E 01 -0.284E 01 0.152E 01 0.395E 02 0.474E 01 0.120E 02 0.896E 01 0.428E 04 0.890
E 03 -0.462E 01 0.222E 01 0.729E 01 0.203E 01 0.541E 01 0.317E 01 0.115E 02 0.617E 00
0.783E 01 0.169E 01 0.460E 01 0.337E 01 0.300E 01-0.2909162E 08 0.9450266E 08-0.2922788E

06

1967 323 3 0.334E 03 0.868E 01 0.969E 01 0.959E 00 0.356E 02 0.948E 01 -0.615E 01 0 REC 179, LENGTH 402
.743E 00 0.112E 01 0.215E 01 0.346E 02 0.423E 01 -0.105E 02 0.125E 02 0.323E 04 0.235
E 03 -0.407E 01 0.158E 01 0.942E 01 0.571E 00 -0.280E 00 0.223E 01 0.110E 02 0.297E 00
0.934E 01 0.332E 00 -0.129E 01 0.227E 01 0.300E 01-0.2921483E 08 0.9444898E 08-0.2890174E

06

1967 323 4 0.320E 03 0.156E 02 0.117E 02 0.757E 00 0.438E 02 0.954E 00 -0.701E 01 0 REC 180, LENGTH 402
.142E 01 0.368E 01 0.449E 00 0.365E 02 0.959E 01 -0.257E 02 0.395E 01 0.376E 04 0.419
E 03 -0.521E 01 0.238E 01 0.699E 01 0.168E 01 -0.417E 01 0.570E 00 0.101E 02 0.468E 00
0.651E 01 0.161E 01 -0.490E 01 0.735E 00 0.300E 01-0.2933678E 08 0.9439565E 08-0.2857676E

6

1967 323 5 0.301E 03 0.714E 01 0.849E 01 0.143E 00 0.320E 02 0.908E 00 -0.377E 01 0 REC 181, LENGTH 402
.441E 01 0.827E 00 0.164E 01 0.194E 02 0.222E 02 -0.657E 01 0.109E 02 0.256E 04 0.919
E 02 -0.823E 01 0.552E 00 0.364E 01 0.386E 01 -0.244E 01 0.121E 01 0.102E 02 0.134E 00
0.336E 01 0.371E 01 -0.281E 01 0.159E 01 0.300E 01-0.2945982E 08 0.9434154E 08-0.2825268E

06

1967 323 6 0.296E 03 0.672E 01 0.954E 01 0.197E 01 0.384E 02 0.382E 01 -0.374E 01 0 REC 182, LENGTH 402
.272E 01 0.106E 00 0.455E 01 0.191E 02 0.167E 02 -0.231E 01 0.216E 02 0.281E 04 0.517
E 03 -0.776E 01 0.304E 00 0.233E 01 0.747E 00 -0.233E 01 0.390E 01 0.951E 01 0.250E 00
0.207E 01 0.115E 01 -0.256E 01 0.380E 01 0.283E 01-0.2961165E 08 0.9427910E 08-0.2787659E

06

1967 323 7 0.330E 03 0.433E 00 0.948E 01 0.111E 01 0.354E 02 0.651E 01 -0.696E 01 0 REC 183, LENGTH 402
.864E 01 -0.339E 00 0.136E 00 0.397E 02 0.509E 01 -0.232E 01 0.244E 00 0.313E 04 0.370
E 03 -0.448E 01 0.112E 01 0.818E 01 0.813E 00 -0.170E 01 0.507E 00 0.100E 02 0.360E-01
0.795E 01 0.863E 00 -0.256E 01 0.417E 00 0.200E 01-0.2972544E 08 0.9422429E 08-0.2754805E

06

1967 323 8 0.352E 03 0.894E 01 0.124E 02 0.202E 01 0.454E 02 0.102E 02 0.180E 01 0 REC 184, LENGTH 402
.679E 00 -0.319E 01 0.119E 01 -0.881E 01 0.355E 01 0.206E 02 0.800E 01 0.437E 04 0.753
E 03 -0.136E 01 0.995E 00 -0.700E 01 0.259E 01 0.577E 01 0.171E 01 0.113E 02 0.222E 00
-0.634E 01 0.241E 01 0.645E 01 0.196E 01 0.300E 01-0.2982675E 08 0.9417923E 08-0.2727902E

06

1967 323 9 0.334E 03 0.232E 02 0.104E 02 0.179E 01 0.405E 02 0.487E 01 0.260E 01 0 REC 185, LENGTH 402
.330E 00 -0.164E 01 0.139E 01 -0.138E 02 0.166E 01 0.113E 02 0.871E 01 0.346E 04 0.399
E 03 -0.293E 01 0.306E 01 -0.739E 01 0.113E 01 0.438E 01 0.206E 01 0.105E 02 0.610E 00
-0.688E 01 0.987E 00 0.514E 01 0.213E 01 0.300E 01-0.2994894E 08 0.9412470E 08-0.2695432E

06

1967 323 10 0.336E 03 0.122E 02 0.108E 02 0.970E 00 0.384E 02 0.356E 01 -0.145E 01 0 REC 186, LENGTH 402
.153E 01 0.481E 01 0.103E 01 0.523E 01 0.797E 01 -0.285E 02 0.629E 01 0.361E 04 0.232
E 03 -0.540E 01 0.955E 00 0.343E-01 0.219E 01 -0.894E 01 0.150E 01 0.120E 02 0.904E-01
-0.923E 00 0.209E 01 -0.895E 01 0.163E 01 0.300E 01-0.3027106E 08 0.9407010E 08-0.2662966E

06

1967 323 11 0.316E 03 0.776E 01 0.136E 02 0.211E 01 0.544E 02 0.142E 02 -0.402E 01 0 REC 187, LENGTH 402
.137E 01 0.429E 01 0.119E 01 0.194E 02 0.847E 01 -0.255E 02 0.519E 01 0.428E 04 0.558
E 03 -0.513E 01 0.138E 01 0.493E 01 0.230E 01 -0.705E 01 0.169E 01 0.112E 02 0.725E-01
0.415E 01 0.240E 01 -0.754E 01 0.154E 01 0.300E 01-0.3019379E 08 0.9401488E 08-0.2630314E

06

1967 323 12 0.305E 03 0.132E 02 0.114E 02 0.587E 00 0.423E 02 0.222E 01 -0.257E 01 0 REC 188, LENGTH 402
.238E 01 0.305E 01 0.117E 01 0.119E 02 0.131E 02 -0.175E 02 0.582E 01 0.349E 04 0.324
E 03 -0.724E 01 0.998E 00 0.321E 01 0.393E 01 -0.466E 01 0.162E 01 0.104E 02 0.218E 00
0.270E 01 0.408E 01 -0.498E 01 0.121E 01 0.302E 01-0.3031501E 08 0.9396027E 08-0.2598042E

06

1967 323 13 0.288E 03 0.0 0.115E 02 0.0 0.401E 02 0.0 -0.169E 01 0 REC 189, LENGTH 402
.0 0.132E 01 0.0 0.761E 01 0.0 -0.740E 01 0.0 0.333E 04 0.0
0.0 -0.763E 01 0.0 0.227E 01 0.0 -0.116E 01 0.0 0.921E 01 0.0
0.213E 01 0.0 -0.139E 01 0.0 0.100E 01-0.3039578E 08 0.9392373E 08-0.2576629E

06

1967 323 18 0.288E 03 0.0 0.993E 01 0.0 0.325E 02 0.0 0.279E 01 0 REC 190, LENGTH 402

```
.0          -0.186E 01    0.0          -0.127E 02    0.0           0.106E 02    0.0           0.284E 04    0.0
       -0.119E 02    0.0          -0.337E 01    0.0          -0.822E 00    0.0           0.129E 02    0.0
   -0.344E 01    0.0          -0.460E 00    0.0           0.100E 01-0.3104888E 08 0.9362477E 08-0.2402217E
06

1967 325   0    0.295E 03    0.0           0.167E 02    0.0           0.360E 02    0.0          -0.188E 01    0  REC   191, LENGTH   402
.0          -0.107E 01    0.0           0.100E 02    0.0           0.444E 01    0.0           0.491E 04    0.0
       -0.661E 01    0.0           0.573E 01    0.0           0.895E 00    0.0           0.906E 01    0.0
    0.579E 01    0.0           0.300E 00    0.0           0.100E 01-0.3463238E 08 0.9187325E 08-0.1434633E
06

1967 325   1    0.292E 03    0.901E 00    0.156E 02    0.151E 00    0.343E 02    0.146E 01   -0.102E 01    0  REC   192, LENGTH   402
.275E 00   -0.160E 01    0.526E 00    0.594E 01    0.111E 01    0.749E 01    0.277E 01    0.454E 04    0.448
E 02   -0.684E 01    0.534E-01    0.422E 01    0.157 01    0.259E 01    0.236E 01    0.884E 01    0.206E 00
    0.446E 01    0.135E 01    0.214E 01    0.249E 01    0.300E 01-0.3471027E 08 0.9183299E 08-0.1413386E
06

1967 325   2    0.286E 03    0.0           0.133E 02    0.0           0.293E 02    0.0          -0.192E 01    0  REC   193, LENGTH   402
.0          -0.136E 01    0.0           0.101E 02    0.0           0.566E 01    0.0           0.382E 04    0.0
       -0.582E 01    0.0           0.265E 01    0.0           0.471E 01    0.0           0.820E 01    0.0
    0.312E 01    0.0           0.441E 01    0.0           0.100E 01-0.3478882E 08 0.9179237E 08-0.1391951E
06

1967 325   3    0.284E 03    0.439E 01    0.147E 02    0.637E 00    0.244E 02    0.566E 00   -0.365E 01    0  REC   194, LENGTH   402
.814E 01   -0.317E 01    0.901E 00    0.193E 02    0.321E 01    0.137E 02    0.501E 01    0.417E 04    0.245
E 03   -0.595E 01    0.792E 00    0.647E 01    0.123E 00    0.365E 01    0.483E-01    0.961E 01    0.403E 00
    0.681E 01    0.127E 00    0.296E 01    0.356E-01    0.200E 01-0.3492754E 08 0.9172034E 08-0.1354068E
06

1967 325   4    0.281E 03    0.636E 01    0.154E 02    0.799E 00    0.265E 02    0.707E 00   -0.392E 01    0  REC   195, LENGTH   402
.647E 00   -0.218E 01    0.143E 01    0.199E 02    0.429E 01    0.861E 01    0.677E 01    0.433E 04    0.322
E 03   -0.576E 01    0.216E 01    0.689E 01    0.512E 00   -0.149E 01    0.416E 00    0.934E 01    0.806E 00
    0.670E 01    0.467E 00   -0.219E 01    0.467E 00    0.200E 01-0.3504517E 08 0.9165902E 08-0.1321924E
06

1967 325  15    0.265E 03    0.0           0.248E 02    0.0           0.225E 02    0.0          -0.427E 01    0  REC   196, LENGTH   402
.0          -0.409E 01    0.0           0.212E 02    0.0           0.166E 02    0.0           0.655E 04    0.0
       -0.441E 01    0.0           0.859E 01    0.0          -0.219E 00    0.0           0.970E 01    0.0
    0.852E 01    0.0          -0.109E 01    0.0           0.100E 01-0.3640030E 08 0.9093715E 08-0.9500450E
05

1967 325  16    0.275E 03    0.686E 01    0.264E 02    0.303E 01    0.241E 02    0.919E 00   -0.258E 01    0  REC   197, LENGTH   402
.148E 00   -0.347E 01    0.259E 01    0.138E 02    0.201E 00    0.150E 02    0.119E 02    0.725E 04    0.654
E 03   -0.592E 01    0.849E-01    6.970E 01    0.989E 00    0.301E 00    0.147E 01   -0.115E 02    0.736E 00
    0.968E 01    0.835E 00   -0.685E 00    0.156E 01    0.200E 01-0.3645854E 08 0.9090546E 08-0.9339900E
05

1967 325  17    0.272E 03    0.117E 01    0.334E 02    0.517E 01    0.229E 02    0.162E 01   -0.369E 01    0  REC   198, LENGTH   402
.381E 00   -0.495E 01    0.504E 00    0.195E 02    0.159E 01    0.213E 02    0.256E 01    0.909E 04    0.143
E 04   -0.414E 01    0.696E 00    0.676E 01    0.123E 01   -0.387E 01    0.140E 01    0.924E 01    0.160E 01
    0.633E 01    0.109E 01   -0.454E 01    0.151E 01    0.300E 01-0.3659643E 08 0.9083024E 08-0.8955744E
05

1967 325  18    0.276E 03    0.586E 00    0.329E 02    0.260E 01    0.278E 02    0.764E 00   -0.205E 01    0  REC   199, LENGTH   402
.162E 01   -0.265E 01    0.612E 00    0.109E 02    0.473E 01    0.115E 02    0.310E 01    0.909E 04    0.722
E 03   -0.193E 01    0.237E 00   -0.304E 00    0.320E 01   -0.494E 01    0.480E 00    0.632E 01    0.193E 00
   -0.803E 00    0.323E 01   -0.489E 01    0.186E 00    0.300E 01-0.3671210E 08 0.9076693E 08-0.3640619E
05

1967 325  19    0.273E 03    0.0           0.293E 02    0.0           0.319E 02    0.0          -0.373E 01    0  REC   200, LENGTH   402
.0          -0.340E 01    0.0           0.191E 02    0.0           0.142E 02    0.0           0.802E 04    0.0
       -0.383E 01    0.0           0.442E 01    0.0          -0.480E 01    0.0           0.792E 01    0.0
    0.391E 01    0.0          -0.522E 01    0.0           0.100E 01-0.3679166E 08 0.9072326E 08-0.8421006E
```

```
$*13.29.54 JOB   57 -- MVAVTAPE -- BEGINNING EXEC - PART 1 - CLASS A
N 13.31.50 JOB   57 IEC209I MVAVTAPE MV1HR  182 TR=000,TW=000,EC=000,CL=000,N=000,SIO=02783
N 13.32.28 JOB   57 IEF280E K 182,MV1HR ,MVAVTAPE,G
N 13.32.42 JOB   57 END EXECUTION.
```

```
//MVAVTAPE JOB (71464A,12,10,5000,0,H1,,5),'MV AV PRINTOUT'              JOB  57
// EXEC FORCLG
XX       PROC  LKED='                                                   00000005
XXC       EXEC PGM=IEYFORT                                  FORTRAN G   00000010
XXSYSPRINT DD  SYSOUT=A                                                 00000020
XXSYSPUNCH DD  SYSOUT=B                                                 00000030
XXSYSLIN   DD  DSNAME=&&OBJMODS,DISP=(MOD,PASS),                       *00000040
XX             UNIT=SYSDA,SPACE=(CYL,(5,2)),                           *00000050
XX             DCB=(BLKSIZE=400,BUFNO=2)                                00000060
//C.SYSIN DD *
IEF236I ALLOC. FOR MVAVTAPE C
IEF237I 23E   ALLOCATED TO SYSPRINT
IEF237I 23D   ALLOCATED TO SYSPUNCH
IEF237I 197   ALLOCATED TO SYSLIN
IEF237I 23C   ALLOCATED TO SYSIN
IEF285I   SYS72208.T123559.RF000.MVAVTAPE.R0000126      DELETED
IEF285I   VOL SER NOS=       .
IEF285I   SYS72208.T123559.RF000.MVAVTAPE.OBJMODS       PASSED
IEF285I   VOL SER NOS= LNS1  .
IEF285I   SYS72208.T123559.RF000.MVAVTAPE.R0000128      DELETED
IEF285I   VOL SER NOS=       .
XXL       EXEC  PGM=IEW&LKED,PARM='LIST,MAP',COND=(5,LT)    LINKEDIT   00000070
IEF653I SUBSTITUTION JCL - PGM=IEWL,PARM='LIST,MAP',COND=(5,LT)
XXSYSPRINT DD  SYSOUT=A                                                 00000080
XXSYSUT1   DD  UNIT=SYSDA,SPACE=(CYL,(5,2))                             00000090
XXSYSLMOD  DD  DSNAME=&&LMODS(LMOD1),DISP=(MOD,PASS),                  *00000100
XX             UNIT=SYSDA,SPACE=(CYL,(5,2,1)),                         *00000110
XX             DCB=(RECFM=U,BLKSIZE=3072)                               00000120
XXSYSLIN   DD  DSNAME=&&OBJMODS,DISP=(MOD,DELETE),                     *00000130
XX             UNIT=SYSDA,SPACE=(TRK,0)                                 00000140
XX         DD  DDNAME=SYSIN                                             00000150
XXSYSLIB   DD  DSNAME=SYS1.LNSFLIB,DISP=OLD                             00000160
XX         DD  DSNAME=SYS1.FORTLIB,DISP=OLD                             00000170
XX         DD  DSNAME=SYS1.SSPLIB,DISP=OLD                              00000180
IEF236I ALLOC. FOR MVAVTAPE L
IEF237I 23E   ALLOCATED TO SYSPRINT
IEF237I 197   ALLOCATED TO SYSUT1
IEF237I 197   ALLOCATED TO SYSLMOD
IEF237I 197   ALLOCATED TO SYSLIN
IEF237I 190   ALLOCATED TO SYSLIB
IEF237I 197   ALLOCATED TO
IEF237I 190   ALLOCATED TO
IEF285I   SYS72208.T123559.RF000.MVAVTAPE.R0000129      DELETED
IEF285I   VOL SER NOS=       .
IEF285I   SYS72208.T123559.RF000.MVAVTAPE.R0000130      DELETED
IEF285I   VOL SER NOS= LNS1  .
IEF285I   SYS72208.T123559.RF000.MVAVTAPE.LMODS         PASSED
IEF285I   VOL SER NOS= LNS1  .
IEF285I   SYS72208.T123559.RF000.MVAVTAPE.OBJMODS       DELETED
IEF285I   VOL SER NOS= LNS1  .
IEF285I   SYS1.LNSFLIB                                  KEPT
IEF285I   VOL SER NOS= LNS2  .
IEF285I   SYS1.FORTLIB                                  KEPT
IEF285I   VOL SER NOS= LNS1  .
IEF285I   SYS1.SSPLIB                                   KEPT
IEF285I   VOL SER NOS= LNS2  .
XXG       EXEC PGM=*.L.SYSLMOD,COND=(5,LT)          EXECUTE LMOD  00000190
XXSYSLMOD  DD  DSNAME=*.L.SYSLMOD,DISP=(OLD,DELETE)                     00000200
XXSYSPRINT DD  SYSOUT=A                                                 00000210
XXFT05F001 DD  DDNAME=SYSIN                                             00000220
XXFT06F001 DD  SYSOUT=A                                                 00000230
```

```
XXFT07F001 DD  SYSOUT=B                                                  00000240
//G.FT11F001 DD UNIT=TAPE7,DISP=(OLD,DELETE),LABEL=(1,NL),               *
//              DCB=(RECFM=F,BLKSIZE=402,TRTCH=ET,DEN=1),                *
//              VOL=SER=MV1HR
IEF236I ALLOC. FOR MVAVTAPE G
IEF237I 197   ALLOCATED TO PGM=*.DD
IEF237I 197   ALLOCATED TO SYSLMOD
IEF237I 23C   ALLOCATED TO SYSPRINT
IEF237I 23F   ALLOCATED TO FT06F001
IEF237I 23D   ALLOCATED TO FT07F001
IEF237I 182   ALLOCATED TO FT11F001
IEF285I   SYS72208.T123559.RF000.MVAVTAPE.LMODS          PASSED
IEF285I   VOL SER NOS= LNS1  .
IEF285I   SYS72208.T123559.RF000.MVAVTAPE.LMODS          DELETED
IEF285I   VOL SER NOS= LNS1  .
IEF285I   SYS72208.T123559.RF000.MVAVTAPE.R0000132       DELETED
IEF285I   VOL SER NOS=       .
IEF285I   SYS72208.T123559.RF000.MVAVTAPE.R0000134       DELETED
IEF285I   VOL SER NOS= MV1HR .
IEF280E K 182,MV1HR ,MVAVTAPE,G
//NEWS   EXEC  NEWS  (HASP ADDED CARD)                                   00000010
XXU   EXEC   PGM=NEWS                                                    00000020
XXOUTPUT  DD  SYSOUT=A,DCB=BLKSIZE=80                                    00000030
XXINPUT   DD  DSNAME=SYS1.NEWS,DISP=SHR
//
IEF236I ALLOC. FOR MVAVTAPE U        NEWS
IEF237I 23E   ALLOCATED TO OUTPUT
IEF237I 190   ALLOCATED TO INPUT
IEF285I   SYS72208.T123559.RF000.MVAVTAPE.R0000135       DELETED
IEF285I   VOL SER NOS=       .
IEF285I   SYS1.NEWS                                      KEPT
IEF285I   VOL SER NOS= LNS2  .

 HASP-II JOB STATISTICS --     37 CARDS READ --     3,221 LINES PRINTED --       0 CARDS PUNCHED --    2.80 MINUTES EXECUTION TIME
```

```
      C     A PROGRAM TO READ AND PRINTOUT MV AVERAGE TAPES
0001        DIMENSION FW(5)
0002        CALL HACK(FW)
0003        INTEGER YEAR,DAY,HOUR
0004        DIMENSION AVE(20),SD(20)
0005      1 CONTINUE
0006        READ(11,1029,END=100) YEAR,DAY,HOUR,(AVE(K),SD(K),K=1,8),
           *   (AVE(K),SD(K),K=12,17),ENTRY,XSE,YSE,ZSE
0007     1029 FORMAT(3I4,29E12.3,3E14.7)
0008        DATA LINES/54/
0009        IF(LINES.LT.54) GO TO 95
0010                        WRITE(6,1005)FW(1),FW(2)
0011     1005 FORMAT('1',10X,'MARINER 5 ONE HOUR AVERAGES',80X,2A4)
0012        WRITE(6,1010) YEAR
0013     1010 FORMAT('0',2X,I4/3X,'D  H',5X,'V',11X,'N',10X,'WS',10X,'EW',10X,'N
           *S',10X,'VT',10X,'VN',6X,'XSE',9X,'YSE',9X,'ZSE',6X,'ENTRIES'/)
0014        LINES=0
0015      95 CONTINUE
0016        WRITE(6,1030)DAY,HOUR,    (AVE(K),SD(K),K=1,7),XSE,YSE,ZSE,ENTRY
0017     1030 FORMAT(1X,2I3,7(F6.1,'(',F4.1,')'),1P3E12.4,0PF4.0)
0018        LINES=LINES+1
0019        GO TO 1
0020      100 CONTINUE
0021        WRITE(6,1001)
0022     1001 FORMAT('0END OF FILE MARK READ ON TAPE')
0023        CALL EXIT
0024        END
```

SUBPROGRAMS CALLED

SYMBOL	LOCATION	SYMBOL	LOCATION	SYMBOL	LOCATION	SYMBOL	LOCATION	SYMBOL	LOCATION
HACK	88	IBCOM=	BC	EXIT	C0				

SCALAR MAP

SYMBOL	LOCATION	SYMBOL	LOCATION	SYMBOL	LOCATION	SYMBOL	LOCATION	SYMBOL	LOCATION
YEAR	C8	DAY	CC	HOUR	D0	K	D4	ENTRY	D8
XSE	DC	YSE	E0	ZSE	E4	LINES	E8		

ARRAY MAP

SYMBOL	LOCATION	SYMBOL	LOCATION	SYMBOL	LOCATION	SYMBOL	LOCATION	SYMBOL	LOCATION
FW	EC	AVE	100	SD	150				

FORMAT STATEMENT MAP

SYMBOL	LOCATION	SYMBOL	LOCATION	SYMBOL	LOCATION	SYMBOL	LOCATION	SYMBOL	LOCATION
1029	1A0	1005	180	1010	1DA	1030	235	1001	258

```
*OPTIONS IN EFFECT*   ID,EBCD,SOURCE,NOLIST,NODECK,LOAD,MAP
*OPTIONS IN EFFECT*   NAME = MAIN     , LINECNT =      60
*STATISTICS*     SOURCE STATEMENTS =       24,PROGRAM SIZE =     1216
*STATISTICS*  NO DIAGNOSTICS GENERATED
```

```
F44-LEVEL LINKAGE EDITOR OPTIONS SPECIFIED LIST,MAP
        VARIABLE OPTIONS USED -  SIZE=(71680,20480)-        DEFAULT OPTION(S) USED

                                MODULE MAP

CONTROL SECTION

  NAME     ORIGIN  LENGTH

MAIN          00      4C0
IHCFEXIT*     4C0      1C

HACK    *     4E0      F4
IHCECOMH*     5D8     F41

IHCCOMH2*    1520     65D

IHCFCVTH*    1880    119D

IHCEFNTH*    2D20     512

IHCEFIOS*    3238    1320

IHCUOPT *    4558     318
IHCERRM *    4870     584

IHCUATBL*    4E28     108
IHCETRCH*    4F30     28E

ENTRY ADDRESS       00
TOTAL LENGTH      51C0

ENTRY

  NAME   LOCATION     NAME   LOCATION     NAME   LOCATION     NAME   LOCATION

EXIT          4C0

IBCOM=        5D8    FDIOCS=       694    INTSWTCH     14FE

SEQDASD      1898

ADCON=       1B80    FCVAOUTP     1C2A    FCVLOUTP     1CBA    FCVZOUTP     1E9A
FCVIOUTP     2188    FCVEOUTP     26BA    FCVCOUTP     28D4    INT6SWCH     2BBB

ARITH=       2D20    ADJSWTCH     3080

FIOCS=       3238    FIOCSBEP     3244

ERRMON       4870    IHCERRE      4888

IHCTRCH      4F30    ERRTRA       4F38

****LMOD1     DOES NOT EXIST BUT HAS BEEN ADDED TO DATA SET
```

LNS NEWS AND NOTICES

*** FORTRAN H ***
IN A FORTRAN H COMPILATION THE SYSUT1 DATA SET IS USED FOR BUILDING A STRUCTURED SOURCE LISTING AND THE SYSUT2 DATA SET IS USED FOR BUILDING THE XREF LISTING. THE PREVIOUS SPACE ALLOCATION OF
SPACE=(CYL,(0,1)) HAS BEEN CHANGED TO SPACE=(CYL,(1,1))
TO PREVENT THE ALLOCATION OF THESE DATA SETS TO A SYSTEM DISK WITH 0 SPACE LEFT.

*** USERS OF OVERLAY PROGRAMS *** JUNE 13,1972

A RECENT COMPARISON OF A LONG RUNNING,MULTI-SEGMENT OVERLAY PROGRAM RUN UNDER HASP FROM A 2311 DISK PACK TO THE SAME PROGRAM RUN UNDER OS WITHOUT OVERLAY REVEALED A 36 PERCENT INCREASE IN RUN TIME. WE LINKEDITED THIS PROGRAM ON THE 2303 DRUM AND RUN IT UNDER HASP, AND TO OUR SATISFICATION THE INCREASED RUN TIME OVER OS WITHOUT OVERLAY WAS ONLY 10 PERCENT.
YOU ARE URGED TO TRY TO RUN YOUR PROGRAMS FROM THE DRUM BY USING THE LINKAGE EDITOR TO MOVE YOUR PROGRAM FROM THE USER DISK

FOR EXAMPLE TO EXECUTE THE PROGRAM MYPROG WHICH NORMALLY RESIDES ON MYDISK IN THE DATA SET MYLIB, USE THE FOLLOWING JCL

```
// EXEC FORLG
//L.SYSLIN DD *
   INCLUDE MYLIB(MYPROG)
    OVERLAY STATEMENTS  SUPPLIED BY USER
    ENTRY MAIN
/*
//L.MYLIB DD DSNAME=MYLIB,DISP=OLD,VOL=SER=MYDISK,UNIT=2311
```

*** FORTRAN USERS ***

REMEMBER TO WRITE AN END OF FILE AFTER CREATING A SEQUENTIAL DATA SET ON A DIRECT ACCESS DEVICE BEFORE ATTEMPTING TO READ THE FILE. AN ERROR IHC218I WILL PROBABLY OCCUR IF YOU DO NOT END FILE. WE ARE LOOKING INTO THIS PROBLEM FURTHER SO THAT A SEQUENTIAL DATA SET ON DISK WILL BE HANDLED SIMILARLY TO A SEQUENTIAL DATA SET ON TAPE.

*** 029 TO 026 CONVERSION ***
MANY CDC AND DEC INSTALLATIONS CAN HANDLE 7-TRACK ,556 BPI TAPE WITH EITHER BLOCKED OR UNBLOCKED RECORDS THEREFORE USE JCL SIMILAR TO THE FOLLOWING -- SUPPLYING YOUR OWN VALUES FOR DDNAME AND SERNO

```
//DDNAME DD UNIT=TAPE7,DCB=(TRTCH=ET,DEN=1,RECFM=F,BLKSIZE 80),
// VOL=SER=SERNO,DISP=OLD
```

SEE HARVEY (24-C19) FOR A COPY OF A FORTRAN PGM TO RECOGNIZE THE 029 CHARACTERS (=+') AND SUBSITUTE THE RESPECTIVE 026 CHARACTERS

```
$*13.29.54 JOB  57 -- MVAVTAPE -- BEGINNING EXEC - PART 1 - CLASS A
N 13.31.50 JOB  57 IEC209I MVAVTAPE MVIHR  182 TR=000,TW=000,EG=000,CL=000,N=000,SID=02783
N 13.32.28 JOB  57 IEF280E K 182,MVIHR ,MVAVTAPE,C
N 13.32.42 JOB  57 END EXECUTION.
```

67-060A-03A

MARINER 5 ONE HOUR AVERAGES

7/26/72

1967

D	H	V	N	W	EW	NS	VT	VN	XSE	YSE	ZSE	ENTRIES
165	16	388.0(6.2)	7.5(0.4)	40.4(4.4)	-5.3(1.5)	-1.7(0.9)	34.3(10.6)	15.8(5.7)	-1.8812E 07	-1.5071E 08	-8.5168E 04	12.
165	17	397.0(18.8)	6.9(0.7)	39.1(5.3)	-2.3(2.4)	-3.3(0.8)	13.2(18.2)	24.4(5.5)	-1.8717E 07	-1.5071E 08	-9.1556E 04	12.
165	18	428.0(11.9)	7.2(0.6)	48.9(6.9)	-4.9(1.3)	-1.6(0.9)	35.0(9.9)	16.4(8.2)	-1.8622E 07	-1.5072E 08	-9.7891E 04	12.
165	19	422.0(13.1)	7.8(1.2)	52.6(13.7)	-4.2(2.0)	-1.5(1.0)	29.4(15.1)	15.2(7.2)	-1.8528E 07	-1.5073E 08	-1.0417E 05	12.
165	20	435.0(5.4)	7.3(0.3)	47.0(5.3)	-4.6(1.0)	-2.8(1.5)	32.3(7.8)	25.9(11.5)	-1.8433E 07	-1.5073E 08	-1.1041E 05	12.
165	21	422.0(14.6)	7.7(1.3)	49.0(10.1)	-1.5(3.0)	-3.4(1.3)	7.6(22.1)	26.5(10.4)	-1.8338E 07	-1.5074E 08	-1.1658E 05	12.
165	22	450.0(21.2)	6.8(1.8)	49.5(15.1)	-4.5(0.8)	-4.0(2.4)	31.2(7.1)	35.6(19.0)	-1.8258E 07	-1.5074E 08	-1.2172E 05	8.
166	1	449.0(16.8)	6.2(1.6)	52.9(12.9)	-4.4(2.4)	-1.1(1.7)	2.7(17.3)	9.1(14.8)	-1.7957E 07	-1.5076E 08	-1.4078E 05	10.
166	2	428.0(11.6)	6.6(1.9)	57.0(19.9)	-0.4(2.3)	-1.7(1.3)	1.3(16.2)	13.1(11.2)	-1.7869E 07	-1.5077E 08	-1.4626E 05	12.
166	3	420.0(9.4)	6.6(0.9)	57.8(8.3)	-0.6(1.1)	-2.0(1.5)	2.8(7.6)	15.3(11.8)	-1.7774E 07	-1.5078E 08	-1.5210E 05	12.
166	4	410.0(9.4)	6.0(0.7)	51.0(7.6)	1.3(2.2)	-0.3(2.3)	-9.9(15.1)	0.8(17.3)	-1.7678E 07	-1.5078E 08	-1.5798E 05	12.
166	5	425.0(10.3)	6.2(0.6)	54.3(6.4)	1.7(1.1)	2.5(0.5)	-9.9(8.1)	-20.3(4.1)	-1.7580E 07	-1.5079E 08	-1.6386E 05	11.
166	6	428.0(14.8)	6.3(0.8)	50.6(11.9)	-1.2(1.5)	-1.0(2.2)	7.9(9.8)	8.8(16.9)	-1.7486E 07	-1.5080E 08	-1.6948E 05	12.
166	7	417.0(11.7)	6.5(0.9)	55.0(11.2)	-0.3(0.9)	-1.0(2.5)	1.5(5.8)	7.4(18.3)	-1.7391E 07	-1.5080E 08	-1.7512E 05	12.
166	8	438.0(7.9)	5.6(0.7)	44.2(8.0)	-0.5(1.1)	-1.8(1.6)	1.7(8.8)	13.8(12.0)	-1.7295E 07	-1.5081E 08	-1.8078E 05	12.
166	9	410.0(8.7)	6.8(1.7)	55.4(18.1)	0.3(1.0)	-3.0(0.7)	-4.9(7.5)	21.3(5.5)	-1.7199E 07	-1.5081E 08	-1.8633E 05	12.
166	10	415.0(4.3)	5.9(0.4)	47.1(6.1)	-0.9(0.8)	-1.3(0.9)	5.1(6.1)	9.8(6.1)	-1.7103E 07	-1.5082E 08	-1.9188E 05	12.
166	11	397.0(19.9)	5.6(0.7)	42.1(8.5)	0.8(1.8)	-0.8(2.3)	-5.5(11.6)	5.4(17.0)	-1.7010E 07	-1.5083E 08	-1.9721E 05	9.
166	12	419.0(11.2)	5.2(0.5)	41.6(5.5)	-1.0(1.1)	-1.9(1.0)	5.8(8.8)	14.3(6.6)	-1.6915E 07	-1.5083E 08	-2.0255E 05	11.
166	13	431.0(22.3)	5.2(0.6)	43.1(6.1)	-0.7(0.6)	-0.3(1.1)	5.1(4.3)	2.6(8.3)	-1.6823E 07	-1.5084E 08	-2.0769E 05	12.
166	14	431.0(4.9)	5.0(0.3)	38.9(4.5)	-1.0(0.8)	-0.9(1.1)	7.0(6.2)	7.5(8.0)	-1.6726E 07	-1.5084E 08	-2.1303E 05	12.
166	15	432.0(5.1)	4.8(0.3)	38.3(3.7)	-1.3(0.9)	-0.9(0.7)	8.5(7.3)	8.3(5.4)	-1.6630E 07	-1.5085E 08	-2.1829E 05	12.
166	16	430.0(10.0)	5.2(1.1)	44.7(12.6)	0.5(1.3)	-0.3(1.6)	-3.7(10.9)	1.8(11.5)	-1.6534E 07	-1.5086E 08	-2.2352E 05	12.
166	17	428.0(13.4)	5.1(1.0)	44.5(11.0)	1.5(1.4)	-1.4(0.6)	-12.9(11.2)	8.9(4.3)	-1.6437E 07	-1.5086E 08	-2.2870E 05	12.
166	18	439.0(2.4)	5.2(0.5)	43.8(6.3)	-0.5(0.9)	0.9(1.7)	4.6(6.3)	-6.4(13.5)	-1.6341E 07	-1.5087E 08	-2.3381E 05	12.
166	19	433.0(15.8)	4.7(0.9)	40.4(10.7)	-0.1(1.6)	1.3(2.0)	2.3(10.5)	-9.1(15.8)	-1.6244E 07	-1.5087E 08	-2.3891E 05	11.
166	20	430.0(10.2)	4.3(0.5)	41.0(8.9)	0.3(1.2)	-0.4(1.5)	-2.8(8.9)	2.7(11.1)	-1.6147E 07	-1.5088E 08	-2.4391E 05	12.
166	21	424.0(24.9)	4.6(0.9)	48.3(10.5)	-0.3(0.6)	1.8(1.1)	3.9(4.0)	-12.9(8.5)	-1.6052E 07	-1.5088E 08	-2.4880E 05	11.
166	22	413.0(6.6)	5.1(0.4)	45.9(8.3)	0.4(0.8)	2.5(0.5)	-0.6(5.6)	-18.2(3.9)	-1.5958E 07	-1.5089E 08	-2.5359E 05	11.
166	23	413.0(5.2)	5.1(0.4)	48.1(5.7)	-1.5(0.4)	1.2(0.9)	11.7(3.2)	-7.2(6.8)	-1.5864E 07	-1.5090E 08	-2.5828E 05	12.
167	0	428.0(28.5)	4.3(0.2)	40.4(5.4)	-0.2(1.3)	-0.1(1.2)	1.1(10.1)	1.3(9.5)	-1.5767E 07	-1.5090E 08	-2.6313E 05	11.
167	1	417.0(22.9)	4.6(0.9)	44.4(12.1)	0.5(1.1)	0.5(2.1)	-3.7(9.0)	-3.2(14.9)	-1.5670E 07	-1.5091E 08	-2.6788E 05	12.
167	2	437.0(6.4)	4.2(0.4)	37.8(4.5)	1.5(1.1)	-1.2(0.3)	-12.2(8.0)	7.5(2.7)	-1.5574E 07	-1.5091E 08	-2.7256E 05	12.
167	3	422.0(8.8)	4.9(0.5)	48.4(9.7)	1.4(0.9)	-1.1(1.7)	-11.2(7.3)	6.8(12.5)	-1.5476E 07	-1.5092E 08	-2.7727E 05	12.
167	4	428.0(9.8)	4.5(0.6)	45.2(8.9)	1.7(0.7)	-1.8(1.0)	-14.5(5.8)	12.1(7.3)	-1.5379E 07	-1.5092E 08	-2.8186E 05	12.
167	5	428.0(5.0)	4.2(0.3)	40.2(3.9)	1.7(0.6)	-2.6(0.5)	-14.9(4.3)	17.9(3.5)	-1.5281E 07	-1.5093E 08	-2.8646E 05	12.
167	6	396.0(7.5)	4.1(0.2)	38.7(3.3)	0.5(1.0)	0.4(1.3)	-3.3(7.7)	-3.0(8.7)	-1.5184E 07	-1.5094E 08	-2.9094E 05	12.
167	7	393.0(3.4)	4.2(0.4)	39.9(3.6)	1.8(0.9)	0.5(0.8)	-11.8(6.5)	-4.6(5.3)	-1.5086E 07	-1.5094E 08	-2.9544E 05	12.
167	8	415.0(15.9)	4.4(0.7)	42.7(10.5)	0.0(1.1)	2.8(0.9)	2.5(8.6)	-20.2(6.6)	-1.4989E 07	-1.5095E 08	-2.9983E 05	12.
167	9	407.0(10.7)	4.5(0.4)	44.5(5.4)	0.4(1.0)	2.0(0.9)	-0.8(6.7)	-14.8(6.8)	-1.4895E 07	-1.5095E 08	-3.0403E 05	11.
167	10	405.0(6.0)	5.0(0.4)	46.7(4.3)	0.1(1.2)	2.1(0.5)	1.1(8.1)	-14.6(4.3)	-1.4802E 07	-1.5096E 08	-3.0816E 05	12.
167	11	394.0(14.5)	4.7(0.6)	40.7(7.7)	-0.7(0.8)	0.8(1.4)	5.8(6.6)	-5.3(9.3)	-1.4702E 07	-1.5096E 08	-3.1250E 05	9.
167	12	381.0(3.0)	4.7(0.4)	38.9(5.5)	-0.4(1.2)	0.4(0.8)	2.8(8.4)	-2.4(4.8)	-1.4606E 07	-1.5097E 08	-3.1665E 05	12.
167	13	389.0(11.2)	5.2(0.5)	40.9(4.9)	-2.2(1.3)	-0.2(1.2)	14.6(9.5)	3.3(7.6)	-1.4508E 07	-1.5097E 08	-3.2079E 05	11.
167	14	388.0(8.0)	5.4(0.4)	40.0(3.4)	-2.2(1.1)	0.9(1.2)	15.8(7.3)	-4.3(8.6)	-1.4410E 07	-1.5098E 08	-3.2493E 05	12.
167	15	393.0(12.5)	5.3(0.5)	43.0(4.3)	-3.0(1.3)	-0.6(1.5)	20.3(9.4)	6.8(9.9)	-1.4312E 07	-1.5099E 08	-3.2899E 05	12.
167	16	403.0(10.5)	5.0(0.5)	42.9(3.9)	-3.7(1.1)	1.1(1.2)	26.7(7.0)	-4.8(9.1)	-1.4214E 07	-1.5099E 08	-3.3301E 05	12.
167	17	406.0(11.6)	5.6(1.0)	42.4(8.9)	-4.7(1.0)	-0.7(1.7)	32.5(7.4)	9.0(12.1)	-1.4115E 07	-1.5100E 08	-3.3697E 05	12.
167	18	397.0(7.0)	5.3(0.6)	38.5(6.2)	-5.4(0.6)	-0.4(0.8)	37.0(4.3)	7.7(5.8)	-1.4017E 07	-1.5100E 08	-3.4089E 05	12.
167	19	398.0(9.6)	5.8(0.6)	40.7(7.1)	-6.2(0.7)	0.3(0.9)	43.3(4.7)	3.1(6.4)	-1.3919E 07	-1.5101E 08	-3.4472E 05	9.
167	20	408.0(19.0)	6.1(0.6)	32.8(5.0)	-4.6(2.1)	-1.7(0.9)	30.6(14.2)	16.3(5.8)	-1.3828E 07	-1.5101E 08	-3.4825E 05	12.
167	21	399.0(2.2)	7.3(0.8)	27.3(5.0)	-5.7(0.5)	-1.0(0.8)	38.3(3.0)	11.8(6.0)	-1.3730E 07	-1.5102E 08	-3.5199E 05	12.
167	22	385.0(6.2)	7.5(0.6)	30.1(3.0)	-4.6(0.9)	0.8(0.9)	31.1(5.8)	-1.3(6.5)	-1.3631E 07	-1.5102E 08	-3.5573E 05	12.
167	23	397.0(10.2)	7.3(1.2)	37.5(6.3)	-3.4(0.8)	-0.3(0.6)	23.2(5.6)	5.1(3.8)	-1.3533E 07	-1.5103E 08	-3.5937E 05	12.

MARINER 5 ONE HOUR AVERAGES 7/26/72

1967 D	H	V	N	W	EW	NS	VT	VN	XSE	YSE	ZSE	ENTRIES
168	0	438.0(5.3)	6.5(0.4)	39.5(6.4)	-0.3(1.0)	-0.6(0.5)	1.9(7.4)	4.9(3.6)	-1.3433E 07	-1.5103E 08	-3.6300E 05	12.
168	1	446.0(4.6)	4.9(1.2)	41.9(8.2)	0.7(0.4)	-0.9(1.3)	-6.2(4.2)	6.1(9.4)	-1.3335E 07	-1.5104E 08	-3.6654E 05	12.
168	2	450.0(4.4)	4.1(0.4)	52.3(15.3)	1.9(1.5)	-0.8(0.4)	-16.0(11.6)	4.2(4.3)	-1.3236E 07	-1.5104E 08	-3.7032E 05	12.
168	3	443.0(8.3)	4.3(0.9)	53.5(19.0)	3.0(1.0)	0.2(0.9)	-22.6(8.8)	-4.0(6.2)	-1.3139E 07	-1.5105E 08	-3.7501E 05	12.
168	4	438.0(3.5)	6.0(1.0)	46.4(3.6)	1.7(0.7)	0.0(0.6)	-12.6(5.3)	-1.6(4.9)	-1.3041E 07	-1.5105E 08	-3.7987E 05	12.
168	5	436.0(3.4)	7.9(1.0)	42.3(7.6)	0.7(0.5)	-0.2(0.7)	-5.3(3.7)	0.6(5.5)	-1.2945E 07	-1.5105E 08	-3.8465E 05	12.
168	6	444.0(7.4)	8.2(0.6)	35.3(5.0)	-0.6(0.7)	-1.7(0.5)	3.1(5.9)	13.7(3.8)	-1.2851E 07	-1.5106E 08	-3.8928E 05	11.
168	7	452.0(5.0)	7.5(1.9)	42.3(10.9)	-0.5(0.5)	-2.8(0.4)	1.0(3.9)	22.0(3.2)	-1.2758E 07	-1.5106E 08	-3.9386E 05	12.
168	8	458.0(4.3)	6.1(0.9)	46.1(5.4)	0.3(0.5)	-2.0(1.1)	-4.3(3.8)	15.1(8.7)	-1.2660E 07	-1.5106E 08	-3.9867E 05	12.
168	9	461.0(5.7)	7.5(1.0)	41.1(6.8)	1.2(0.9)	-2.3(0.4)	-11.7(7.3)	17.5(3.0)	-1.2563E 07	-1.5107E 08	-4.0345E 05	12.
168	10	463.0(5.4)	4.3(1.5)	53.0(13.0)	2.6(0.7)	-1.5(0.5)	-22.4(5.6)	9.2(4.0)	-1.2466E 07	-1.5107E 08	-4.0824E 05	12.
168	11	475.0(6.7)	3.7(0.4)	63.2(8.0)	3.4(0.7)	-2.5(0.6)	-30.6(6.1)	16.8(4.6)	-1.2372E 07	-1.5107E 08	-4.1285E 05	11.
168	12	481.0(5.3)	3.4(0.2)	59.6(4.0)	4.3(0.4)	-2.4(1.0)	-38.1(3.3)	15.9(8.3)	-1.2271E 07	-1.5108E 08	-4.1779E 05	12.
168	13	463.0(6.7)	3.7(0.5)	56.1(8.2)	3.9(0.5)	-3.1(0.9)	-34.5(4.3)	20.9(6.9)	-1.2174E 07	-1.5108E 08	-4.2255E 05	12.
168	14	453.0(7.2)	4.4(0.4)	55.2(10.3)	3.2(0.9)	-4.3(1.0)	-29.2(6.6)	30.7(9.0)	-1.2077E 07	-1.5108E 08	-4.2731E 05	12.
168	15	446.0(4.8)	4.6(0.4)	43.4(3.5)	3.1(0.9)	-2.9(0.9)	-26.6(6.8)	19.6(7.5)	-1.1979E 07	-1.5109E 08	-4.3207E 05	12.
168	16	432.0(14.1)	5.5(1.0)	41.7(6.3)	1.7(1.3)	-1.1(2.5)	-13.5(10.1)	6.5(19.2)	-1.1886E 07	-1.5109E 08	-4.3660E 05	11.
168	17	431.0(4.8)	7.2(0.6)	55.5(3.7)	1.3(0.6)	-1.4(0.9)	-11.1(4.0)	9.0(7.2)	-1.1792E 07	-1.5109E 08	-4.4116E 05	12.
168	18	420.0(6.0)	7.2(0.3)	55.6(3.7)	1.5(0.5)	-1.6(0.6)	-12.3(3.9)	10.5(4.1)	-1.1695E 07	-1.5109E 08	-4.4588E 05	12.
168	19	431.0(3.5)	6.8(0.4)	48.5(4.0)	1.9(0.9)	-2.8(1.0)	-17.1(7.5)	19.4(6.9)	-1.1597E 07	-1.5110E 08	-4.5063E 05	12.
168	20	427.0(6.1)	7.0(0.4)	46.6(3.1)	0.6(0.6)	-0.1(0.3)	-4.9(4.0)	0.5(2.5)	-1.1500E 07	-1.5110E 08	-4.5532E 05	12.
168	21	419.0(4.0)	6.8(0.6)	50.0(4.1)	1.9(1.0)	0.4(0.6)	-13.4(6.8)	-4.3(5.3)	-1.1402E 07	-1.5110E 08	-4.6006E 05	12.
168	22	420.0(5.1)	6.3(0.5)	46.1(2.6)	1.9(0.9)	0.7(0.7)	-13.2(6.3)	-6.6(5.1)	-1.1305E 07	-1.5110E 08	-4.6474E 05	12.
168	23	417.0(3.0)	6.2(0.2)	53.8(5.2)	2.4(0.7)	0.6(0.5)	-16.9(4.6)	-6.3(3.9)	-1.1207E 07	-1.5111E 08	-4.6946E 05	11.
169	0	422.0(7.6)	5.8(0.4)	46.1(6.3)	0.7(0.6)	-0.2(0.8)	-5.0(4.7)	1.0(5.7)	-1.1110E 07	-1.5111E 08	-4.7414E 05	12.
169	1	432.0(3.2)	4.5(0.9)	40.7(5.7)	0.1(0.8)	1.5(0.7)	0.3(5.6)	-11.0(5.1)	-1.1012E 07	-1.5111E 08	-4.7886E 05	12.
169	2	441.0(3.3)	3.6(0.2)	34.7(2.3)	0.6(0.6)	0.1(0.7)	-4.7(5.1)	-1.4(5.5)	-1.0915E 07	-1.5111E 08	-4.8351E 05	12.
169	3	437.0(3.2)	3.3(0.2)	34.2(5.3)	1.1(0.8)	-0.2(0.4)	-8.7(5.7)	0.7(3.2)	-1.0821E 07	-1.5112E 08	-4.8803E 05	11.
169	4	432.0(2.4)	3.5(0.2)	43.4(8.8)	0.2(0.7)	0.9(0.8)	-0.3(5.9)	-7.0(5.9)	-1.0728E 07	-1.5112E 08	-4.9247E 05	12.
169	5	426.0(7.5)	4.3(0.9)	65.9(18.8)	0.2(0.7)	0.8(0.6)	-0.3(5.0)	-6.1(4.4)	-1.0636E 07	-1.5112E 08	-4.9685E 05	10.
169	6	409.0(7.8)	5.2(1.6)	85.0(33.3)	0.8(0.5)	0.6(0.3)	-5.3(3.3)	-5.2(1.8)	-1.0516E 07	-1.5112E 08	-5.0260E 05	7.
169	7	411.0(4.6)	4.0(1.0)	51.2(15.9)	-0.3(0.6)	1.0(0.5)	3.0(4.3)	-6.6(3.7)	-1.0435E 07	-1.5112E 08	-5.0645E 05	11.
169	8	403.0(2.8)	3.8(0.7)	43.8(10.4)	-0.2(0.7)	0.9(0.6)	2.3(5.1)	-6.1(4.3)	-1.0337E 07	-1.5112E 08	-5.1110E 05	12.
169	9	401.0(7.8)	4.3(0.5)	48.7(8.5)	-0.9(0.7)	1.0(0.3)	6.8(4.7)	-6.5(2.2)	-1.0239E 07	-1.5113E 08	-5.1575E 05	12.
169	10	403.0(9.3)	4.4(0.7)	53.8(5.2)	-0.4(0.6)	1.4(0.4)	4.1(4.4)	-9.4(2.7)	-1.0142E 07	-1.5113E 08	-5.2032E 05	11.
169	11	415.0(3.9)	3.4(0.3)	47.1(6.1)	0.3(0.5)	1.3(0.4)	-1.0(3.5)	-9.5(2.5)	-1.0044E 07	-1.5113E 08	-5.2501E 05	12.
169	12	413.0(7.6)	3.1(0.5)	50.1(5.1)	0.3(0.3)	0.9(0.6)	-1.4(2.3)	-6.6(4.4)	-9.9458E 06	-1.5113E 08	-5.2963E 05	12.
169	13	414.0(4.6)	2.8(0.6)	44.4(7.9)	0.4(0.5)	0.9(0.7)	-1.9(3.8)	-7.1(4.5)	-9.8522E 06	-1.5113E 08	-5.3404E 05	11.
169	14	392.0(6.4)	4.6(0.9)	56.0(13.9)	-0.1(0.2)	0.1(0.3)	0.8(1.6)	-0.6(1.8)	-9.7582E 06	-1.5113E 08	-5.3847E 05	12.
169	15	378.0(11.8)	4.7(0.6)	41.9(13.5)	-0.1(0.5)	-0.2(0.5)	0.7(3.1)	1.2(3.2)	-9.6619E 06	-1.5114E 08	-5.4300E 05	11.
169	16	366.0(1.2)	5.0(0.2)	26.7(1.5)	-0.5(0.3)	-0.1(0.3)	3.1(2.3)	1.1(1.8)	-9.5707E 06	-1.5114E 08	-5.4729E 05	10.
169	17	356.0(4.2)	6.3(0.5)	29.1(2.1)	-1.5(0.3)	0.0(0.4)	9.5(2.0)	1.1(2.3)	-9.4587E 06	-1.5114E 08	-5.5254E 05	10.
169	18	357.0(2.5)	5.5(0.6)	28.8(2.3)	-1.1(0.4)	-0.3(0.4)	6.5(2.5)	2.7(2.8)	-9.3668E 06	-1.5114E 08	-5.5685E 05	12.
169	19	353.0(2.2)	6.1(0.4)	29.9(2.8)	-1.1(0.4)	-0.5(0.3)	6.3(2.8)	3.7(1.7)	-9.2696E 06	-1.5114E 08	-5.6139E 05	12.
169	20	347.0(4.0)	7.5(0.9)	26.3(2.2)	-2.1(0.5)	-0.3(0.4)	12.5(3.2)	3.5(2.4)	-9.1710E 06	-1.5114E 08	-5.6600E 05	12.
169	21	348.0(1.2)	8.4(0.5)	26.0(2.1)	-2.3(0.5)	-0.4(0.4)	13.3(3.1)	4.2(2.5)	-9.0738E 06	-1.5114E 08	-5.7053E 05	12.
169	22	351.0(3.1)	9.1(0.6)	26.7(2.1)	-2.5(0.6)	-0.5(0.3)	15.0(3.7)	5.0(1.9)	-8.9751E 06	-1.5114E 08	-5.7512E 05	12.
169	23	347.0(3.7)	9.3(0.2)	25.7(2.3)	-2.4(0.3)	-0.9(0.4)	13.6(1.6)	7.2(2.5)	-8.8780E 06	-1.5114E 08	-5.7964E 05	12.
170	0	343.0(0.4)	9.7(0.4)	21.7(1.0)	-2.3(0.2)	-1.1(0.3)	12.8(1.3)	8.4(1.8)	-8.7834E 06	-1.5114E 08	-5.8403E 05	11.
170	1	342.0(1.7)	11.1(0.8)	20.6(1.1)	-2.0(0.3)	-1.1(0.5)	11.2(2.0)	7.9(2.9)	-8.6901E 06	-1.5114E 08	-5.8835E 05	12.
170	2	340.0(1.1)	10.8(0.5)	23.1(1.8)	-2.1(0.5)	-1.1(0.3)	11.8(2.9)	8.2(1.9)	-8.5916E 06	-1.5114E 08	-5.9291E 05	12.
170	3	340.0(0.8)	10.7(1.0)	23.4(1.4)	-2.4(0.3)	-1.2(0.3)	13.4(1.9)	9.0(1.9)	-8.4941E 06	-1.5115E 08	-5.9741E 05	12.
170	4	335.0(2.0)	13.8(0.5)	23.6(1.2)	-3.1(0.5)	-1.3(0.3)	16.8(2.7)	9.7(1.7)	-8.3956E 06	-1.5115E 08	-6.0196E 05	12.
170	5	329.0(1.2)	14.1(0.6)	23.5(1.3)	-2.9(0.2)	-1.9(0.5)	15.3(1.4)	12.8(2.9)	-8.3020E 06	-1.5115E 08	-6.0627E 05	11.

MARINER 5 ONE HOUR AVERAGES

7/26/72

1967 D	H	V	N	WO	EW	NS	VT	VN	XSE	YSE	ZSE	ENTRIES
170	6	328.0(3.6)	15.4(0.7)	25.2(1.0)	-3.3(0.3)	-2.1(0.7)	17.3(1.6)	14.2(4.0)	-8.1871E 06	-1.5115E 08	-6.1155E 05	9.
170	7	330.0(3.3)	13.9(1.7)	24.7(2.4)	-2.5(1.3)	-1.5(0.4)	13.2(7.5)	10.6(2.6)	-8.1026E 06	-1.5115E 08	-6.1543E 05	10.
170	8	326.0(1.4)	16.7(0.6)	25.1(1.4)	-2.3(0.5)	-1.7(0.5)	11.7(2.5)	11.3(3.4)	-7.9911E 06	-1.5115E 08	-6.2054E 05	9.
170	9	322.0(2.4)	17.0(0.6)	23.9(1.1)	-2.5(0.3)	-1.0(0.3)	13.2(1.7)	7.2(1.8)	-7.9056E 06	-1.5115E 08	-6.2445E 05	12.
170	10	326.0(11.4)	15.3(1.7)	24.7(3.8)	-2.2(0.9)	-1.1(0.5)	11.5(4.8)	7.8(3.6)	-7.8180E 06	-1.5115E 08	-6.2846E 05	8.
170	11	323.0(2.2)	13.0(0.7)	28.3(2.2)	-3.6(0.6)	-0.5(0.6)	19.8(3.5)	5.6(3.3)	-7.7174E 06	-1.5115E 08	-6.3305E 05	12.
170	12	320.0(3.2)	11.9(0.5)	27.1(1.6)	-3.9(0.5)	-0.4(0.5)	21.1(3.2)	5.1(2.7)	-7.6195E 06	-1.5115E 08	-6.3751E 05	12.
170	13	323.0(6.8)	13.3(1.3)	28.4(2.1)	-2.5(0.8)	0.7(0.6)	14.7(4.2)	-2.2(3.5)	-7.5214E 06	-1.5115E 08	-6.4197E 05	11.
170	14	338.0(6.9)	16.1(3.7)	27.4(6.2)	-3.0(1.5)	-4.2(1.1)	14.3(8.7)	26.8(6.6)	-7.4233E 06	-1.5115E 08	-6.4645E 05	12.
170	15	349.0(2.1)	21.0(1.2)	24.0(0.8)	-0.8(0.4)	-2.6(0.8)	3.1(2.3)	16.3(5.0)	-7.3251E 06	-1.5114E 08	-6.5107E 05	12.
170	16	343.0(3.6)	21.2(0.7)	22.8(1.6)	-2.0(0.7)	-2.8(0.3)	9.9(4.0)	18.0(1.9)	-7.2278E 06	-1.5114E 08	-6.5566E 05	12.
170	17	336.0(1.8)	19.3(0.6)	23.2(1.2)	-2.3(0.5)	-2.6(0.3)	11.4(2.8)	16.5(1.6)	-7.1295E 06	-1.5114E 08	-6.6030E 05	12.
170	18	328.0(4.0)	17.6(1.0)	23.6(1.3)	-2.3(0.8)	-2.7(0.4)	11.2(4.4)	16.9(2.1)	-7.0324E 06	-1.5114E 08	-6.6488E 05	12.
170	19	324.0(1.2)	15.9(0.6)	23.2(1.3)	-2.3(0.3)	-2.7(0.4)	11.2(1.6)	16.6(2.4)	-6.9339E 06	-1.5114E 08	-6.6953E 05	12.
170	20	322.0(0.4)	15.0(0.4)	22.3(0.6)	-1.8(0.0)	-2.7(0.0)	8.3(0.2)	16.3(0.1)	-6.8733E 06	-1.5114E 08	-6.7239E 05	3.
170	23	319.0(2.7)	15.8(0.9)	22.7(2.1)	-3.5(0.8)	-2.3(0.7)	17.5(3.9)	15.0(4.1)	-6.5305E 06	-1.5114E 08	-6.8854E 05	7.
171	0	317.0(1.8)	14.7(0.5)	22.9(1.3)	-3.8(0.6)	-3.0(0.4)	18.5(3.3)	19.2(2.1)	-6.4537E 06	-1.5114E 08	-6.9216E 05	12.
171	1	321.0(1.6)	16.1(0.5)	23.2(0.9)	-2.9(0.4)	-3.1(0.6)	14.2(2.4)	19.2(3.3)	-6.3555E 06	-1.5114E 08	-6.9678E 05	12.
171	2	323.0(5.6)	14.3(2.8)	26.0(6.0)	-1.7(1.1)	-0.9(0.8)	8.8(5.8)	6.2(4.7)	-6.2581E 06	-1.5113E 08	-7.0137E 05	12.
171	3	338.0(1.6)	10.1(0.7)	35.6(3.8)	0.1(1.1)	-1.2(1.0)	-1.2(5.8)	6.8(6.6)	-6.1599E 06	-1.5113E 08	-7.0600E 05	12.
171	4	341.0(5.0)	8.3(1.3)	34.0(3.7)	-0.4(0.7)	-1.9(0.6)	1.0(4.4)	11.3(3.4)	-6.0625E 06	-1.5113E 08	-7.1058E 05	12.
171	5	348.0(4.3)	7.8(0.8)	32.6(3.5)	-1.1(0.5)	-0.9(0.7)	6.1(3.3)	6.0(4.0)	-5.9644E 06	-1.5113E 08	-7.1520E 05	12.
171	6	347.0(4.6)	7.8(0.8)	31.4(1.9)	-0.8(0.7)	-1.6(0.4)	3.6(4.0)	10.0(2.4)	-5.8668E 06	-1.5113E 08	-7.1979E 05	12.
171	7	340.0(3.0)	6.7(0.6)	31.1(3.1)	-0.7(0.6)	-1.5(0.5)	2.8(3.3)	9.2(3.3)	-5.7729E 06	-1.5113E 08	-7.2420E 05	11.
171	8	348.0(11.9)	5.7(1.9)	34.4(4.6)	1.1(2.0)	-1.7(1.0)	-8.3(13.1)	9.3(5.3)	-5.6792E 06	-1.5112E 08	-7.2861E 05	12.
171	9	371.0(2.7)	4.1(0.3)	39.0(5.3)	4.5(0.7)	-1.9(0.6)	-30.7(4.5)	8.6(3.7)	-5.5815E 06	-1.5112E 08	-7.3320E 05	12.
171	10	382.0(4.7)	4.3(0.3)	41.6(4.3)	4.8(0.7)	-0.6(0.7)	-32.4(4.7)	-0.2(4.4)	-5.4836E 06	-1.5112E 08	-7.3781E 05	12.
171	11	390.0(2.6)	3.8(0.2)	42.7(3.3)	3.0(0.3)	-0.1(0.7)	-20.1(2.4)	-2.0(4.7)	-5.3794E 06	-1.5112E 08	-7.4270E 05	10.
171	12	396.0(4.2)	3.7(0.2)	45.5(3.8)	2.7(0.6)	1.1(0.6)	-17.7(4.0)	-9.8(4.0)	-5.2879E 06	-1.5112E 08	-7.4700E 05	12.
171	13	398.0(4.1)	3.5(0.4)	37.6(3.9)	1.4(0.6)	1.3(0.3)	-8.8(4.3)	-9.9(2.6)	-5.1904E 06	-1.5111E 08	-7.5158E 05	12.
171	14	409.0(3.3)	4.5(0.3)	48.7(4.0)	2.0(0.7)	2.0(1.0)	-12.3(5.0)	-15.7(6.7)	-5.0922E 06	-1.5111E 08	-7.5619E 05	12.
171	15	387.0(16.0)	4.8(0.4)	44.5(5.0)	1.4(0.4)	1.9(1.2)	-7.8(3.3)	-14.2(8.9)	-4.9974E 06	-1.5111E 08	-7.6064E 05	11.
171	16	367.0(8.7)	4.9(0.8)	41.6(5.0)	0.7(0.7)	0.5(0.5)	-3.9(4.5)	-4.0(2.7)	-4.8983E 06	-1.5111E 08	-7.6529E 05	11.
171	17	371.0(4.8)	4.3(0.5)	36.3(7.5)	0.5(0.3)	0.4(0.5)	-2.7(2.1)	-3.0(3.4)	-4.8035E 06	-1.5110E 08	-7.6974E 05	11.
171	18	369.0(2.6)	3.9(0.2)	31.3(2.8)	-0.0(0.4)	0.3(0.9)	0.3(3.0)	-1.9(5.5)	-4.7089E 06	-1.5110E 08	-7.7418E 05	12.
171	19	368.0(4.1)	4.3(0.6)	27.7(3.0)	-0.4(0.6)	0.4(0.7)	2.6(3.9)	-2.4(4.5)	-4.6118E 06	-1.5110E 08	-7.7873E 05	12.
171	20	370.0(1.6)	4.1(0.4)	28.1(4.2)	-0.7(0.4)	1.1(0.4)	5.0(2.9)	-6.3(2.5)	-4.5133E 06	-1.5110E 08	-7.8336E 05	12.
171	21	373.0(1.0)	3.8(0.2)	25.8(2.5)	-1.2(0.2)	1.5(0.5)	9.0(1.7)	-8.8(2.9)	-4.4161E 06	-1.5109E 08	-7.8791E 05	12.
171	22	368.0(1.9)	4.3(0.5)	29.1(6.5)	-0.8(0.3)	1.5(0.4)	6.3(2.2)	-8.8(2.6)	-4.3218E 06	-1.5109E 08	-7.9233E 05	11.
171	23	365.0(4.7)	5.5(0.8)	29.7(5.1)	-0.9(0.3)	2.3(0.3)	7.2(2.0)	-14.1(2.2)	-4.2204E 06	-1.5109E 08	-7.9709E 05	12.
172	0	351.0(5.9)	7.4(1.1)	27.7(5.0)	0.2(0.8)	1.9(0.5)	0.4(5.0)	-11.5(2.6)	-4.1254E 06	-1.5109E 08	-8.0154E 05	11.
172	1	345.0(3.7)	9.0(0.9)	26.8(2.7)	-0.1(0.8)	1.5(0.8)	1.5(5.1)	-9.2(4.6)	-4.0246E 06	-1.5108E 08	-8.0626E 05	12.
172	2	342.0(1.1)	10.2(0.5)	23.4(1.1)	0.2(0.7)	1.6(0.4)	-0.1(4.2)	-9.4(2.6)	-3.9265E 06	-1.5108E 08	-8.1085E 05	12.
172	3	339.0(2.0)	8.2(1.2)	28.4(4.7)	-0.4(0.6)	1.8(0.4)	3.6(3.8)	-10.2(2.2)	-3.8289E 06	-1.5108E 08	-8.1542E 05	12.
172	4	328.0(7.9)	10.8(3.4)	26.4(3.0)	-1.3(0.6)	3.3(1.1)	9.7(3.9)	-17.8(5.7)	-3.7350E 06	-1.5107E 08	-8.1982E 05	11.
172	5	311.0(7.6)	12.4(2.4)	25.9(3.1)	-1.0(0.7)	2.9(0.4)	7.4(4.1)	-14.8(2.4)	-3.6412E 06	-1.5107E 08	-8.2421E 05	12.
172	6	306.0(10.5)	12.4(1.5)	24.3(2.8)	-2.3(0.7)	3.3(0.8)	14.4(3.9)	-15.8(3.5)	-3.5460E 06	-1.5107E 08	-8.2866E 05	11.
172	7	301.0(3.7)	15.2(1.1)	21.8(1.8)	-2.7(0.5)	4.1(0.4)	16.4(2.5)	-19.7(2.3)	-3.4454E 06	-1.5106E 08	-8.3337E 05	12.
172	8	305.0(2.3)	17.5(0.7)	20.6(1.0)	-2.1(0.5)	3.1(0.4)	13.3(2.5)	-15.0(2.4)	-3.3477E 06	-1.5106E 08	-8.3794E 05	12.
172	9	307.0(1.9)	18.8(0.9)	20.9(1.4)	-3.3(0.6)	2.3(0.4)	18.8(3.1)	-10.3(2.4)	-3.2478E 06	-1.5105E 08	-8.4261E 05	11.
172	10	313.0(3.6)	17.2(2.4)	21.1(2.4)	-1.5(1.5)	1.6(0.9)	9.1(8.3)	-7.9(4.6)	-3.1516E 06	-1.5105E 08	-8.4711E 05	11.
172	11	309.0(7.4)	11.3(2.4)	24.5(1.4)	-1.0(1.1)	1.1(1.1)	6.0(5.5)	-5.4(6.2)	-3.0539E 06	-1.5105E 08	-8.5167E 05	12.
172	12	304.0(2.8)	9.6(0.6)	22.5(1.7)	-2.6(0.7)	3.0(0.7)	15.4(3.9)	-13.9(3.5)	-2.9545E 06	-1.5104E 08	-8.5632E 05	11.
172	13	309.0(4.3)	12.3(1.7)	23.3(3.3)	-2.5(0.9)	1.7(0.7)	14.3(5.0)	-7.5(3.3)	-2.8581E 06	-1.5104E 08	-8.6082E 05	12.

MARINER 5 ONE HOUR AVERAGES

7/26/72

1967 D	H	V	N	WC	EW	NS	VT	VN	XSE	YSE	ZSE	ENTRIES
204	8	395.0(23.9)	9.8(1.9)	48.6(13.8)	1.1(1.3)	-0.1(3.0)	-8.4(10.6)	1.1(19.7)	6.8073E 07	-1.2597E 08	-3.9699E 06	12.
204	13	488.0(17.0)	6.4(0.6)	60.6(11.9)	7.7(1.6)	2.4(0.6)	-63.2(12.0)	-26.4(4.5)	6.8517E 07	-1.2564E 08	-3.9881E 06	3.
204	14	499.0(13.1)	6.9(1.0)	65.7(9.7)	7.8(1.8)	0.3(1.3)	-67.9(17.0)	-8.5(10.9)	6.8569E 07	-1.2560E 08	-3.9903E 06	11.
204	15	482.0(8.0)	7.4(0.8)	58.9(9.3)	6.5(1.0)	0.8(1.1)	-54.0(8.7)	-11.4(9.4)	6.8652E 07	-1.2554E 08	-3.9937E 06	12.
204	16	490.0(8.9)	6.5(0.9)	56.9(8.2)	6.0(2.5)	1.6(0.8)	-49.7(22.1)	-18.0(4.9)	6.8736E 07	-1.2548E 08	-3.9971E 06	12.
204	17	490.0(0.7)	5.4(0.1)	49.9(0.1)	4.6(0.0)	1.8(0.1)	-37.2(0.3)	-18.5(0.5)	6.8784E 07	-1.2544E 08	-3.9991E 06	2.
204	18	496.0(5.4)	5.9(0.1)	51.9(2.9)	4.0(0.7)	1.3(0.0)	-33.5(5.6)	-14.1(0.0)	6.8937E 07	-1.2533E 08	-4.0053E 06	2.
204	19	488.0(8.3)	6.0(0.6)	53.7(7.6)	4.4(0.8)	1.6(1.0)	-35.8(5.4)	-16.7(8.6)	6.8988E 07	-1.2529E 08	-4.0074E 06	11.
204	20	489.0(5.1)	5.5(0.3)	51.8(5.0)	5.1(0.7)	2.4(0.8)	-41.4(5.5)	-24.0(7.3)	6.9070E 07	-1.2523E 08	-4.0108E 06	12.
204	21	472.0(10.7)	5.4(0.5)	48.7(6.7)	4.1(0.7)	1.6(0.9)	-32.3(6.5)	-16.6(7.8)	6.9149E 07	-1.2517E 08	-4.0140E 06	11.
204	22	452.0(8.9)	6.0(0.3)	47.4(4.3)	3.7(0.8)	0.2(1.1)	-28.7(6.1)	-4.2(8.4)	6.9229E 07	-1.2511E 08	-4.0173E 06	12.
204	23	443.0(7.2)	5.2(0.6)	44.0(5.5)	4.0(0.7)	-1.0(0.7)	-31.6(5.1)	4.6(5.4)	6.9312E 07	-1.2504E 08	-4.0207E 06	12.
205	0	433.0(5.6)	5.5(0.3)	42.6(4.0)	3.2(0.6)	-1.1(0.5)	-24.6(4.3)	6.2(4.0)	6.9396E 07	-1.2498E 08	-4.0241E 06	12.
205	1	424.0(3.4)	6.7(0.3)	43.3(4.1)	2.5(0.8)	-2.2(0.9)	-20.0(6.0)	14.7(6.6)	6.9479E 07	-1.2492E 08	-4.0275E 06	12.
205	2	412.0(4.2)	6.9(0.9)	44.9(9.6)	-0.1(0.9)	-1.7(0.6)	-0.7(6.4)	11.9(4.8)	6.9566E 07	-1.2485E 08	-4.0311E 06	11.
205	3	410.0(4.8)	6.1(0.5)	41.0(6.1)	-0.4(0.8)	-2.8(0.5)	0.8(5.8)	19.7(3.4)	6.9645E 07	-1.2479E 08	-4.0343E 06	12.
205	4	417.0(3.0)	6.2(0.7)	41.7(3.4)	-1.9(0.8)	-2.4(0.6)	12.3(5.8)	18.4(3.9)	6.9729E 07	-1.2473E 08	-4.0377E 06	12.
205	5	418.0(6.3)	7.5(0.7)	39.9(4.6)	-2.1(0.8)	-2.0(0.6)	14.1(5.7)	15.6(4.4)	6.9815E 07	-1.2466E 08	-4.0412E 06	10.
205	6	398.0(12.1)	8.4(1.0)	42.6(3.6)	-2.2(0.5)	-1.9(0.7)	13.9(3.3)	14.5(4.9)	6.9895E 07	-1.2460E 08	-4.0445E 06	12.
205	7	414.0(12.4)	6.5(1.0)	38.8(4.4)	-0.4(1.5)	-1.7(0.7)	1.8(10.6)	12.2(4.2)	6.9977E 07	-1.2453E 08	-4.0479E 06	12.
205	8	428.0(3.7)	7.2(0.4)	36.3(4.3)	2.3(0.6)	-2.4(0.6)	-18.4(4.3)	16.2(4.0)	7.0057E 07	-1.2447E 08	-4.0511E 06	11.
205	9	423.0(2.1)	6.7(0.5)	35.2(2.9)	1.0(0.9)	-2.2(0.7)	-8.6(6.6)	15.3(4.7)	7.0136E 07	-1.2441E 08	-4.0543E 06	12.
205	10	423.0(3.0)	5.9(0.3)	33.5(1.9)	0.6(0.7)	-1.5(0.5)	-5.5(5.0)	10.5(3.8)	7.0220E 07	-1.2435E 08	-4.0578E 06	12.
205	11	413.0(5.7)	6.4(0.7)	35.4(5.0)	0.9(0.9)	-1.5(0.4)	-7.7(6.1)	10.0(3.3)	7.0302E 07	-1.2428E 08	-4.0611E 06	12.
205	12	417.0(4.8)	5.8(0.4)	37.7(2.7)	-0.1(0.5)	-1.1(0.7)	-0.0(3.2)	8.3(5.5)	7.0385E 07	-1.2422E 08	-4.0645E 06	12.
205	13	411.0(4.8)	5.4(0.5)	39.8(2.7)	-1.6(0.5)	-0.9(0.5)	10.7(3.3)	7.2(3.1)	7.0468E 07	-1.2416E 08	-4.0679E 06	12.
205	14	408.0(10.1)	6.2(0.7)	45.4(4.9)	-0.3(1.1)	-1.1(0.6)	1.1(7.9)	8.0(4.4)	7.0551E 07	-1.2409E 08	-4.0713E 06	12.
205	15	395.0(3.1)	5.9(0.3)	43.7(4.1)	-0.6(0.6)	-0.1(0.6)	4.2(3.9)	1.0(4.5)	7.0633E 07	-1.2403E 08	-4.0746E 06	12.
205	16	396.0(3.8)	5.9(0.4)	43.3(4.1)	-0.6(0.3)	0.5(0.5)	4.2(2.2)	-2.7(3.1)	7.0716E 07	-1.2396E 08	-4.0780E 06	12.
205	17	398.0(9.9)	6.9(0.7)	47.5(9.1)	-1.3(1.0)	-1.3(1.0)	8.1(6.9)	9.3(7.1)	7.0799E 07	-1.2390E 08	-4.0814E 06	12.
205	18	385.0(9.8)	6.6(2.5)	47.4(25.0)	-0.0(0.7)	-0.1(0.5)	-0.0(4.8)	0.5(3.7)	7.0875E 07	-1.2384E 08	-4.0844E 06	8.
205	19	378.0(3.2)	6.1(0.3)	42.2(5.0)	1.2(0.2)	0.1(0.2)	-7.5(1.3)	-1.5(1.5)	7.0927E 07	-1.2380E 08	-4.0866E 06	3.
205	20	374.0(2.3)	5.4(1.1)	37.2(12.9)	-0.6(0.4)	-0.5(0.4)	3.3(2.7)	3.8(2.5)	7.1034E 07	-1.2371E 08	-4.0909E 06	3.
205	21	388.0(10.7)	6.2(0.2)	47.5(1.1)	-0.5(0.0)	-0.4(0.5)	3.0(0.4)	3.1(3.2)	7.1116E 07	-1.2365E 08	-4.0943E 06	2.
205	22	390.0(1.5)	5.6(0.4)	42.4(5.7)	-1.3(0.7)	-0.6(0.5)	8.3(4.3)	5.0(4.1)	7.1199E 07	-1.2358E 08	-4.0976E 06	3.
205	23	393.0(11.1)	5.2(0.6)	36.7(5.0)	-1.1(0.4)	-0.9(1.5)	6.6(3.5)	7.0(10.5)	7.1281E 07	-1.2352E 08	-4.1010E 06	3.
206	0	376.0(6.2)	5.8(0.6)	43.2(8.7)	-1.3(0.5)	0.4(0.6)	8.6(3.7)	-1.5(3.4)	7.1363E 07	-1.2345E 08	-4.1043E 06	3.
206	1	379.0(19.0)	5.1(0.8)	33.3(4.8)	-1.4(1.4)	-0.3(1.6)	8.5(8.9)	3.3(10.6)	7.1446E 07	-1.2339E 08	-4.1077E 06	3.
206	2	360.0(2.8)	5.7(0.4)	36.5(2.4)	-1.8(0.4)	1.7(0.1)	11.8(2.3)	-9.4(0.9)	7.1528E 07	-1.2332E 08	-4.1110E 06	3.
206	3	364.0(4.3)	5.9(0.3)	40.5(7.8)	-1.0(0.1)	2.1(1.1)	7.7(1.2)	-12.4(6.7)	7.1611E 07	-1.2326E 08	-4.1144E 06	3.
206	4	384.0(2.2)	5.3(0.4)	33.4(1.3)	-2.8(0.4)	1.1(0.1)	19.3(2.5)	-5.7(0.9)	7.1693E 07	-1.2319E 08	-4.1177E 05	2.
206	5	404.0(7.1)	5.6(1.9)	38.2(14.6)	-2.7(1.1)	1.5(0.7)	19.7(7.9)	-8.8(4.6)	7.1776E 07	-1.2313E 08	-4.1211E 06	3.
206	6	373.0(6.4)	5.7(0.8)	33.3(4.8)	-2.5(0.6)	0.5(1.2)	16.6(2.8)	-1.5(7.9)	7.1857E 07	-1.2306E 08	-4.1244E 06	3.
206	7	377.0(4.4)	5.8(1.0)	28.2(4.1)	-1.9(0.5)	1.8(0.7)	13.4(3.2)	-10.9(4.4)	7.1940E 07	-1.2300E 08	-4.1278E 06	3.
206	8	372.0(2.0)	7.0(1.0)	26.9(1.8)	-2.5(0.7)	1.8(0.6)	17.3(4.7)	-10.1(3.6)	7.2022E 07	-1.2293E 08	-4.1311E 06	3.
206	9	374.0(3.0)	7.6(0.9)	33.8(6.4)	-2.4(0.4)	1.3(0.7)	16.0(2.3)	-6.8(4.4)	7.2104E 07	-1.2287E 08	-4.1344E 06	3.
206	10	382.0(7.8)	6.1(0.9)	35.3(2.3)	-2.2(0.8)	-0.3(1.5)	14.5(5.7)	3.4(9.7)	7.2186E 07	-1.2280E 08	-4.1378E 06	3.
206	11	382.0(3.9)	6.5(0.8)	37.8(11.8)	-1.9(0.7)	0.9(0.3)	12.9(5.1)	-4.7(1.8)	7.2268E 07	-1.2273E 08	-4.1411E 06	3.
206	12	369.0(4.0)	6.6(2.1)	39.4(7.6)	-2.4(1.5)	0.8(1.0)	15.7(8.5)	-3.8(7.2)	7.2350E 07	-1.2267E 08	-4.1444E 06	3.
206	13	359.0(4.6)	9.1(2.1)	45.8(16.9)	-4.3(0.4)	2.4(0.6)	27.7(3.1)	-12.7(3.7)	7.2432E 07	-1.2260E 08	-4.1478E 06	3.
206	14	381.0(7.6)	10.3(1.4)	38.9(11.5)	-4.8(0.9)	1.6(1.0)	32.6(6.1)	-8.1(6.5)	7.2514E 07	-1.2254E 08	-4.1511E 06	3.
206	15	395.0(10.7)	9.9(1.3)	41.6(3.6)	-4.5(0.1)	0.9(1.4)	31.4(1.6)	-3.5(9.8)	7.2596E 07	-1.2247E 08	-4.1544E 06	3.
206	16	423.0(20.9)	5.9(0.5)	41.2(13.1)	-0.6(0.7)	1.0(0.9)	5.2(5.3)	-7.4(6.5)	7.2678E 07	-1.2240E 08	-4.1577E 06	3.
206	17	435.0(6.4)	6.4(0.2)	44.4(1.3)	-0.4(0.6)	2.3(0.4)	4.7(4.6)	-17.1(2.7)	7.2746E 07	-1.2235E 08	-4.1605E 06	2.

MARINER 5 ONE HOUR AVERAGES

1967 D	H	V	N	W	EW	NS	VT	VN	XSE	YSE	ZSE	ENTRIES
226	7	379.0(3.7)	5.5(0.6)	38.0(5.1)	-0.2(1.6)	2.1(0.9)	2.2(10.9)	-13.5(5.5)	1.0495E 08	-8.3743E 07	-5.3809E 06	3.
226	8	380.0(14.1)	9.7(6.7)	70.8(67.0)	-4.8(2.1)	1.6(0.7)	32.5(15.3)	-8.9(4.5)	1.0500E 08	-8.3645E 07	-5.3828E 06	3.
226	9	370.0(2.5)	6.2(0.5)	40.5(3.9)	-0.2(1.3)	2.6(0.1)	2.4(8.1)	-16.4(0.9)	1.0506E 08	-8.3547E 07	-5.3846E 06	3.
226	10	370.0(7.6)	5.9(0.0)	39.2(4.4)	1.0(1.0)	0.7(1.3)	-5.9(5.9)	-4.8(9.0)	1.0510E 08	-8.3465E 07	-5.3861E 06	2.
226	11	370.0(3.5)	5.9(0.4)	36.5(4.9)	0.8(0.7)	2.6(0.4)	-4.6(4.9)	-17.0(2.2)	1.0515E 08	-8.3382E 07	-5.3876E 06	3.
226	12	371.0(6.6)	6.2(0.3)	43.1(5.4)	-1.8(1.6)	2.5(1.2)	12.7(10.2)	-15.4(7.9)	1.0520E 08	-8.3284E 07	-5.3894E 06	3.
226	13	375.0(4.8)	5.3(0.7)	32.8(5.6)	-3.6(0.1)	0.4(0.3)	23.4(0.2)	-1.5(2.1)	1.0525E 08	-8.3185E 07	-5.3912E 06	3.
226	14	384.0(34.2)	5.9(0.6)	38.6(4.0)	-2.3(3.3)	1.3(2.4)	16.9(21.6)	-7.3(16.0)	1.0531E 08	-8.3088E 07	-5.3930E 06	3.
226	15	394.0(13.7)	5.8(1.0)	33.7(7.0)	-3.3(1.0)	0.2(0.8)	22.2(5.8)	-0.5(5.8)	1.0536E 08	-8.2988E 07	-5.3948E 06	3.
226	16	374.0(4.8)	7.2(0.7)	40.3(3.6)	-3.0(0.1)	0.8(1.5)	19.8(0.4)	-4.0(9.6)	1.0541E 08	-8.2890E 07	-5.3966E 06	3.
226	17	374.0(5.8)	7.1(0.5)	28.5(4.9)	-3.8(0.6)	2.8(0.7)	25.1(3.9)	-17.1(4.7)	1.0547E 08	-8.2790E 07	-5.3984E 06	3.
226	18	378.0(9.1)	6.9(0.2)	30.4(7.0)	-3.5(1.1)	4.4(1.3)	24.1(7.4)	-27.4(8.0)	1.0552E 08	-8.2692E 07	-5.4001E 06	3.
226	19	362.0(12.6)	11.7(5.0)	58.1(37.9)	-3.3(0.4)	5.4(0.1)	22.3(2.0)	-32.7(1.9)	1.0557E 08	-8.2593E 07	-5.4019E 06	3.
226	20	371.0(11.5)	7.5(3.0)	25.6(7.2)	-4.5(0.2)	2.1(3.5)	29.2(0.9)	-11.7(22.3)	1.0563E 08	-8.2478E 07	-5.4040E 06	2.
226	21	366.0(6.4)	8.6(0.5)	30.7(4.6)	-4.8(0.6)	3.0(1.8)	31.5(3.5)	-17.3(11.0)	1.0568E 08	-8.2394E 07	-5.4055E 06	3.
226	22	360.0(3.8)	9.1(0.4)	29.3(4.0)	-4.3(0.9)	2.7(0.5)	27.3(6.1)	-15.6(2.7)	1.0573E 08	-8.2296E 07	-5.4072E 06	3.
226	23	352.0(6.1)	11.1(3.2)	35.7(17.1)	-4.7(0.7)	2.0(0.9)	29.3(4.8)	-10.6(5.4)	1.0579E 08	-8.2197E 07	-5.4090E 06	3.
227	0	400.0(9.8)	8.9(1.4)	31.3(9.3)	-0.3(2.6)	0.3(1.1)	2.0(17.8)	-2.1(7.8)	1.0584E 08	-8.2098E 07	-5.4108E 06	3.
227	1	414.0(8.8)	13.3(0.9)	32.9(2.9)	3.3(0.4)	0.6(0.3)	-23.5(2.7)	-5.4(2.3)	1.0589E 08	-8.1998E 07	-5.4125E 06	3.
227	2	417.0(5.2)	12.1(3.2)	31.0(5.3)	1.8(0.4)	-0.3(0.4)	-13.4(3.2)	1.3(3.0)	1.0594E 08	-8.1899E 07	-5.4143E 06	3.
227	3	408.0(3.0)	13.4(1.0)	25.0(3.9)	1.0(1.0)	-0.0(0.5)	-7.3(7.4)	-0.2(3.2)	1.0600E 08	-8.1799E 07	-5.4161E 06	3.
227	4	411.0(6.8)	13.2(1.3)	25.7(1.8)	0.7(0.2)	0.7(0.4)	-4.9(1.2)	-4.9(2.5)	1.0605E 08	-8.1700E 07	-5.4178E 06	3.
227	5	405.0(10.2)	12.7(1.6)	25.7(2.8)	0.9(0.2)	-0.6(1.5)	-6.4(1.6)	3.8(10.2)	1.0610E 08	-8.1600E 07	-5.4196E 06	3.
227	6	405.0(0.6)	11.1(1.3)	32.7(1.9)	0.8(1.0)	0.8(1.3)	-5.3(7.2)	-5.7(8.9)	1.0615E 08	-8.1500E 07	-5.4213E 06	3.
227	7	394.0(6.9)	14.7(0.5)	32.6(3.8)	1.3(0.5)	1.9(0.5)	-8.4(3.2)	-13.2(3.5)	1.0621E 08	-8.1400E 07	-5.4230E 06	3.
227	8	381.0(10.3)	14.1(0.4)	31.3(4.7)	1.0(0.7)	0.1(0.9)	-6.4(4.6)	-1.2(6.0)	1.0626E 08	-8.1301E 07	-5.4248E 06	3.
227	9	382.0(2.1)	18.6(1.8)	30.3(2.9)	-0.6(0.2)	0.8(0.2)	4.1(1.6)	-5.1(1.2)	1.0631E 08	-8.1201E 07	-5.4265E 06	3.
227	10	381.0(4.3)	19.0(1.8)	32.2(6.0)	-1.9(0.8)	1.8(0.6)	12.8(4.9)	-11.2(4.4)	1.0636E 08	-8.1101E 07	-5.4282E 06	3.
227	11	373.0(2.1)	18.5(1.9)	23.4(1.3)	-2.4(0.2)	1.5(0.4)	15.9(1.2)	-9.1(2.7)	1.0642E 08	-8.1001E 07	-5.4300E 06	3.
227	12	371.0(8.1)	12.6(1.0)	20.8(2.5)	-4.1(0.2)	0.9(0.4)	26.4(0.7)	-4.7(2.6)	1.0647E 08	-8.0901E 07	-5.4317E 06	2.
227	13	362.0(4.5)	15.0(1.5)	23.7(3.2)	-4.4(0.7)	1.0(0.8)	27.5(4.5)	-4.9(5.0)	1.0652E 08	-8.0801E 07	-5.4334E 06	3.
227	14	362.0(8.3)	18.3(0.3)	35.1(21.2)	-3.1(0.7)	0.1(0.9)	19.6(4.4)	0.6(5.7)	1.0657E 08	-8.0701E 07	-5.4351E 06	3.
227	15	349.0(3.2)	19.4(5.3)	27.3(5.3)	-2.2(0.4)	0.1(0.4)	13.1(2.3)	0.0(2.6)	1.0662E 08	-8.0601E 07	-5.4368E 06	3.
227	16	354.0(3.6)	19.7(2.3)	28.3(1.9)	-3.8(0.4)	-0.7(0.8)	22.9(2.8)	5.6(4.5)	1.0667E 08	-8.0517E 07	-5.4383E 06	2.
227	21	381.0(0.0)	25.1(0.0)	33.0(0.0)	-0.9(0.0)	-0.3(0.0)	6.1(0.0)	2.4(0.0)	1.0695E 08	-7.9965E 07	-5.4476E 06	1.
227	22	379.0(0.0)	22.7(0.0)	25.0(0.0)	-1.3(0.0)	1.5(0.0)	8.9(0.0)	-9.2(0.0)	1.0699E 08	-7.9897E 07	-5.4487E 06	1.
227	23	362.0(29.8)	5.8(2.5)	32.6(20.6)	-0.0(0.4)	3.0(2.7)	0.8(3.2)	-18.2(15.3)	1.0703E 08	-7.9813E 07	-5.4501E 06	2.
228	0	409.0(19.9)	8.0(1.6)	56.6(15.6)	0.5(1.2)	-1.0(0.9)	-4.0(8.6)	6.4(6.3)	1.0709E 08	-7.9695E 07	-5.4521E 06	3.
228	1	417.0(8.5)	9.0(1.7)	56.8(16.1)	1.1(0.8)	-3.6(0.9)	-9.3(6.3)	25.6(6.7)	1.0714E 08	-7.9595E 07	-5.4537E 06	3.
228	2	401.0(13.2)	7.5(1.7)	50.8(20.1)	-0.4(1.2)	-2.4(0.2)	1.5(8.2)	17.0(1.7)	1.0719E 08	-7.9494E 07	-5.4554E 06	3.
228	3	408.0(29.4)	8.0(0.7)	49.0(5.8)	0.8(0.5)	-0.5(0.6)	-5.9(3.8)	3.4(4.6)	1.0724E 08	-7.9393E 07	-5.4571E 06	3.
228	4	394.0(13.9)	9.5(0.6)	50.4(4.7)	2.1(2.3)	0.1(2.1)	-14.8(15.5)	-1.4(14.8)	1.0728E 08	-7.9308E 07	-5.4585E 06	2.
228	5	403.0(0.9)	9.7(1.3)	51.1(8.0)	-0.1(1.4)	0.1(1.3)	0.7(9.6)	-0.8(9.7)	1.0732E 08	-7.9241E 07	-5.4596E 06	2.
228	6	392.0(0.0)	6.8(0.0)	31.7(0.0)	1.7(0.0)	2.3(0.0)	-11.0(0.0)	-15.8(0.0)	1.0740E 08	-7.9088E 07	-5.4621E 06	1.
228	7	385.0(13.2)	8.0(2.8)	48.5(18.7)	0.5(1.1)	1.8(1.5)	-2.4(7.3)	-11.9(10.0)	1.0743E 08	-7.9021E 07	-5.4632E 06	3.
228	8	421.0(10.3)	10.7(0.5)	49.1(5.1)	-1.5(0.5)	-0.8(0.9)	10.5(3.4)	6.7(6.8)	1.0748E 08	-7.8920E 07	-5.4648E 06	3.
228	9	396.0(16.0)	10.4(0.8)	52.9(0.6)	-2.6(0.3)	0.9(3.0)	18.0(2.2)	-4.9(20.8)	1.0753E 08	-7.8819E 07	-5.4665E 06	3.
228	10	405.0(21.4)	13.5(1.3)	52.4(13.7)	-3.6(1.0)	2.5(2.1)	26.0(7.2)	-15.6(14.0)	1.0758E 08	-7.8717E 07	-5.4681E 06	3.
228	11	394.0(18.7)	11.4(1.1)	32.2(4.9)	-6.2(2.7)	2.3(2.3)	43.4(19.3)	-13.3(15.3)	1.0763E 08	-7.8616E 07	-5.4698E 06	3.
228	12	393.0(3.8)	13.4(1.1)	39.9(1.3)	-7.6(0.5)	2.3(1.2)	52.6(3.6)	-13.3(7.9)	1.0768E 08	-7.8515E 07	-5.4714E 06	3.
228	13	405.0(23.6)	10.0(1.7)	33.1(3.6)	-5.1(4.4)	1.8(2.0)	35.2(29.8)	-10.5(12.8)	1.0773E 08	-7.8412E 07	-5.4731E 06	3.
228	14	409.0(6.3)	8.3(1.0)	41.7(11.5)	-4.8(0.9)	2.4(0.9)	34.5(6.0)	-15.7(6.3)	1.0778E 08	-7.8311E 07	-5.4747E 06	3.
228	15	399.0(13.9)	9.6(1.0)	32.2(8.1)	-5.9(0.3)	2.6(1.9)	41.3(2.5)	-15.7(12.6)	1.0783E 08	-7.8209E 07	-5.4763E 06	3.
228	16	453.0(8.4)	9.7(0.4)	50.2(8.9)	-2.1(0.8)	2.0(0.7)	17.4(6.5)	-14.7(4.9)	1.0788E 08	-7.8108E 07	-5.4779E 06	3.

MARINER 5 ONE HOUR AVERAGES 7/26/72

1967 D	H	V	N	WQ	EW	NS	VT	VN	XSE	YSE	ZSE	ENTRIES
246	13	424.0(13.6)	4.4(0.1)	43.7(3.3)	-4.6(0.0)	1.0(0.2)	33.3(1.3)	-7.5(1.6)	1.2085E 08	-3.0484E 07	-5.7535E 06	2.
246	14	415.0(4.1)	4.6(0.6)	47.9(6.3)	-4.3(0.2)	1.4(1.4)	30.4(1.9)	-10.4(10.4)	1.2086E 08	-3.0383E 07	-5.7532E 06	3.
246	15	417.0(17.0)	4.4(0.9)	48.8(10.7)	-3.0(1.3)	-0.3(1.2)	21.3(8.8)	2.3(8.8)	1.2087E 08	-3.0263E 07	-5.7528E 06	3.
246	16	421.0(5.6)	4.2(0.4)	42.6(8.3)	-2.2(0.5)	0.9(1.0)	16.2(3.9)	-6.8(7.2)	1.2088E 08	-3.0142E 07	-5.7524E 06	3.
246	17	402.0(0.6)	3.8(0.3)	36.8(2.6)	0.5(0.1)	1.8(0.7)	-3.5(0.7)	-12.7(4.7)	1.2089E 08	-3.0022E 07	-5.7520E 06	3.
246	18	423.0(20.1)	3.5(0.3)	40.9(4.3)	-0.7(2.9)	1.2(1.8)	5.0(22.1)	-8.7(13.4)	1.2090E 08	-2.9901E 07	-5.7516E 06	3.
246	19	451.0(16.0)	4.1(0.5)	54.1(10.5)	4.4(0.7)	1.9(0.9)	-34.4(6.1)	-14.8(6.6)	1.2090E 08	-2.9781E 07	-5.7512E 06	3.
246	20	435.0(36.5)	3.1(1.0)	37.0(12.3)	0.7(1.6)	1.8(0.8)	-6.1(12.7)	-13.0(4.9)	1.2091E 08	-2.9660E 07	-5.7508E 06	3.
246	21	427.0(4.8)	3.7(0.5)	48.9(9.1)	0.2(1.0)	2.3(1.0)	-1.3(7.3)	-16.8(7.5)	1.2092E 08	-2.9560E 07	-5.7505E 06	2.
247	5	420.0(3.8)	4.4(0.1)	46.9(1.5)	-0.4(1.7)	2.9(1.0)	2.6(12.4)	-20.9(7.4)	1.2099E 08	-2.8553E 07	-5.7469E 06	2.
247	6	418.0(4.5)	5.0(1.3)	57.3(18.8)	0.1(0.8)	1.2(1.9)	-0.6(5.8)	-8.6(13.9)	1.2100E 08	-2.8451E 07	-5.7465E 06	3.
247	7	419.0(22.9)	4.1(0.6)	41.1(11.0)	-0.7(2.2)	1.3(1.5)	5.4(16.4)	-9.5(11.2)	1.2100E 08	-2.8331E 07	-5.7460E 06	3.
247	8	430.0(12.7)	3.9(0.0)	41.3(1.4)	-2.5(0.5)	1.5(0.3)	18.6(4.4)	-11.0(2.3)	1.2101E 08	-2.8230E 07	-5.7457E 06	2.
247	9	418.0(1.2)	4.2(0.2)	45.5(2.6)	-2.2(1.4)	1.0(1.3)	15.7(10.3)	-7.3(9.2)	1.2102E 08	-2.8129E 07	-5.7453E 06	3.
247	10	408.0(11.3)	4.4(0.3)	45.2(6.8)	-2.3(0.9)	1.2(0.9)	16.4(7.1)	-8.8(6.7)	1.2102E 08	-2.8008E 07	-5.7448E 06	3.
247	11	406.0(2.5)	4.3(0.2)	47.1(1.8)	-1.8(0.8)	1.3(0.9)	12.2(5.8)	-9.0(6.2)	1.2103E 08	-2.7886E 07	-5.7443E 06	3.
247	12	394.0(1.2)	4.0(0.2)	39.2(3.6)	-2.0(0.4)	0.4(1.1)	13.3(2.7)	-2.9(7.6)	1.2104E 08	-2.7765E 07	-5.7438E 06	3.
247	13	394.0(3.1)	4.3(0.1)	38.3(2.8)	-2.1(1.1)	1.1(0.4)	14.1(7.5)	-7.6(2.7)	1.2105E 08	-2.7644E 07	-5.7434E 06	3.
247	14	401.0(10.8)	3.7(0.2)	42.2(16.5)	-2.5(0.1)	0.9(2.1)	16.9(0.9)	-6.1(14.3)	1.2105E 08	-2.7523E 07	-5.7429E 06	3.
247	15	395.0(8.9)	4.7(0.4)	37.4(2.4)	-3.1(0.9)	0.8(0.6)	20.9(6.5)	-5.2(4.3)	1.2106E 08	-2.7401E 07	-5.7424E 06	3.
247	16	414.0(4.8)	4.8(0.3)	33.2(2.1)	-2.9(0.6)	0.9(1.4)	20.7(4.3)	-6.7(9.7)	1.2107E 08	-2.7280E 07	-5.7419E 06	3.
247	17	413.0(8.0)	5.8(0.5)	40.4(1.1)	-3.4(0.9)	0.8(0.5)	24.0(6.7)	-6.1(3.9)	1.2107E 08	-2.7158E 07	-5.7414E 06	3.
247	18	420.0(5.0)	5.2(0.6)	34.5(4.2)	-2.8(0.2)	0.8(0.4)	20.0(1.7)	-6.1(3.2)	1.2108E 08	-2.7038E 07	-5.7409E 06	3.
247	19	412.0(4.7)	5.4(0.0)	36.9(2.7)	-3.3(0.4)	0.9(0.2)	23.2(3.2)	-6.7(1.4)	1.2109E 08	-2.6915E 07	-5.7403E 06	3.
247	20	407.0(1.8)	5.6(0.2)	36.7(3.4)	-3.2(0.5)	0.7(0.7)	22.6(3.9)	-5.3(5.0)	1.2109E 08	-2.6794E 07	-5.7396E 06	3.
247	21	393.0(8.2)	5.6(0.6)	38.4(2.1)	-3.8(0.7)	1.1(0.3)	25.8(5.2)	-7.4(2.2)	1.2110E 08	-2.6672E 07	-5.7393E 06	3.
247	22	379.0(22.5)	6.2(0.5)	41.9(3.3)	-2.1(2.5)	0.4(0.4)	14.6(16.6)	-2.8(2.8)	1.2111E 08	-2.6551E 07	-5.7388E 06	3.
247	23	367.0(4.5)	6.5(1.0)	39.2(10.9)	-2.1(0.6)	0.7(0.7)	13.4(4.1)	-4.2(4.4)	1.2111E 08	-2.6428E 07	-5.7382E 06	3.
248	0	362.0(8.2)	5.9(0.1)	35.3(4.7)	-1.9(0.2)	0.7(0.0)	12.1(1.0)	-4.7(0.2)	1.2112E 08	-2.6308E 07	-5.7377E 06	2.
248	1	358.0(6.2)	7.0(0.5)	38.7(2.1)	-2.6(0.7)	0.9(1.6)	15.9(4.4)	-5.7(9.8)	1.2112E 08	-2.6185E 07	-5.7372E 06	3.
248	2	358.0(11.0)	6.9(0.7)	40.4(1.4)	-3.6(1.3)	-0.1(0.5)	22.6(8.5)	0.6(2.3)	1.2113E 08	-2.6064E 07	-5.7366E 06	3.
248	3	355.0(5.2)	6.9(1.5)	31.9(5.7)	-3.2(1.3)	0.6(1.3)	19.6(7.7)	-3.8(7.8)	1.2114E 08	-2.5942E 07	-5.7361E 06	3.
248	4	339.0(2.8)	6.8(0.3)	32.6(4.2)	-3.2(0.5)	-0.1(1.9)	18.4(2.6)	0.5(10.9)	1.2114E 08	-2.5820E 07	-5.7355E 06	3.
248	5	327.0(0.0)	6.3(0.0)	33.3(0.0)	-1.2(0.0)	0.4(0.0)	6.6(0.0)	-2.4(0.0)	1.2115E 08	-2.5657E 07	-5.7347E 06	1.
248	6	338.0(6.9)	6.9(1.1)	37.3(7.0)	-2.3(1.0)	-0.9(0.2)	13.7(6.3)	5.3(1.2)	1.2115E 08	-2.5576E 07	-5.7344E 06	3.
248	7	334.0(9.4)	7.4(0.3)	39.7(0.7)	-3.1(1.5)	-1.8(0.2)	18.3(8.9)	4.8(1.0)	1.2116E 08	-2.5454E 07	-5.7338E 06	3.
248	8	331.0(5.0)	6.8(0.3)	35.4(2.2)	-2.7(1.3)	0.7(0.0)	15.4(7.7)	-4.1(0.1)	1.2116E 08	-2.5332E 07	-5.7332E 06	3.
248	9	337.0(2.9)	7.0(0.3)	35.8(1.1)	-3.4(0.3)	-0.7(0.3)	19.5(1.6)	3.7(1.8)	1.2117E 08	-2.5210E 07	-5.7326E 06	3.
248	20	312.0(3.5)	8.8(0.1)	31.0(2.5)	-3.1(0.6)	-0.1(0.6)	16.9(3.3)	0.7(3.5)	1.2122E 08	-2.3844E 07	-5.7258E 06	2.
248	21	321.0(2.1)	11.5(0.5)	28.3(4.0)	-2.2(0.4)	-0.0(0.4)	12.1(2.3)	0.0(2.4)	1.2122E 08	-2.3743E 07	-5.7253E 06	3.
248	22	318.0(3.6)	11.8(0.3)	25.0(1.5)	-2.5(0.2)	0.2(0.4)	13.8(0.9)	-1.0(2.3)	1.2123E 08	-2.3619E 07	-5.7246E 06	3.
248	23	319.0(0.7)	13.3(0.8)	22.0(0.0)	-2.5(0.2)	-0.4(0.7)	13.5(1.3)	2.1(4.1)	1.2123E 08	-2.3497E 07	-5.7240E 06	2.
249	0	318.0(0.7)	14.0(0.0)	22.5(0.7)	-2.7(0.1)	-0.0(0.1)	14.9(0.8)	-0.0(0.7)	1.2123E 08	-2.3394E 07	-5.7234E 06	2.
249	1	315.0(2.0)	14.6(1.4)	20.7(1.5)	-2.4(0.2)	0.2(0.2)	13.0(0.8)	-1.0(1.2)	1.2124E 08	-2.3252E 07	-5.7227E 06	3.
249	2	316.0(0.0)	16.2(0.0)	20.0(0.0)	-2.8(0.0)	-0.0(0.0)	15.3(0.0)	0.1(0.0)	1.2124E 08	-2.3128E 07	-5.7220E 06	1.
249	3	317.0(0.4)	18.1(0.4)	20.8(0.4)	-2.4(0.3)	-0.3(0.4)	13.2(1.6)	1.3(2.1)	1.2124E 08	-2.3027E 07	-5.7215E 06	2.
249	4	316.0(2.6)	19.1(2.0)	22.8(1.9)	-2.7(0.2)	-0.1(0.3)	14.7(1.1)	0.5(1.4)	1.2125E 08	-2.2924E 07	-5.7209E 06	3.
249	5	313.0(1.6)	22.7(0.6)	23.1(1.5)	-2.9(0.0)	-0.3(0.3)	15.4(0.1)	1.3(1.5)	1.2125E 08	-2.2801E 07	-5.7202E 06	3.
249	6	310.0(2.1)	27.9(3.1)	22.2(2.6)	-3.6(0.7)	0.0(0.6)	19.3(3.9)	-0.2(3.4)	1.2125E 08	-2.2678E 07	-5.7195E 06	3.
249	7	309.0(3.4)	30.2(2.8)	22.2(2.0)	-3.5(0.5)	-0.1(0.5)	18.5(2.5)	0.4(2.8)	1.2126E 08	-2.2555E 07	-5.7189E 06	3.
249	8	308.0(1.3)	36.2(2.5)	22.7(2.9)	-4.4(0.5)	0.4(0.3)	23.3(2.6)	-2.5(1.8)	1.2126E 08	-2.2433E 07	-5.7182E 06	3.
249	9	307.0(1.1)	37.6(1.2)	22.3(0.7)	-4.3(0.4)	0.7(0.2)	22.5(2.3)	-4.2(1.0)	1.2126E 08	-2.2309E 07	-5.7175E 06	3.
249	10	301.0(4.8)	36.1(2.5)	26.2(4.9)	-4.2(1.1)	1.3(0.7)	21.5(5.7)	-7.0(3.5)	1.2127E 08	-2.2187E 07	-5.7168E 06	3.
249	11	305.0(9.2)	28.5(2.9)	22.9(3.4)	-3.5(0.6)	0.4(1.2)	18.1(3.7)	-2.4(6.2)	1.2127E 08	-2.2063E 07	-5.7161E 06	3.

MARINER 5 ONE HOUR AVERAGES

7/26/72

1967 D	H	V	N	WO	EW	NS	VT	VN	XSE	YSE	ZSE	ENTRIES
279	10	365.0(2.5)	7.4(0.6)	28.0(4.9)	-6.3(1.1)	2.6(0.6)	38.4(7.8)	-20.2(3.1)	9.1594E 07	6.2564E 07	-3.7867E 06	2.
279	11	349.0(0.0)	7.5(0.0)	28.5(0.0)	-4.2(0.0)	-1.0(0.0)	26.0(0.0)	3.6(0.0)	9.1493E 07	6.2687E 07	-3.7813E 06	1.
279	12	336.0(8.4)	8.1(1.9)	28.5(2.4)	-6.1(0.9)	-1.1(0.8)	35.9(5.0)	3.0(4.9)	9.1408E 07	6.2792E 07	-3.7766E 06	3.
279	13	308.0(4.2)	8.8(0.5)	32.5(4.2)	-3.3(1.6)	1.8(0.9)	16.8(8.4)	-11.2(5.8)	9.1321E 07	6.2898E 07	-3.7720E 06	3.
279	14	310.0(1.5)	7.5(0.4)	22.8(2.6)	-3.5(0.6)	-0.5(0.8)	19.2(2.9)	1.0(4.6)	9.1249E 07	6.2986E 07	-3.7681E 06	2.
279	15	298.0(0.7)	8.8(0.2)	28.0(0.0)	-1.8(0.4)	-1.0(0.7)	9.8(2.5)	4.1(3.3)	9.1133E 07	6.3127E 07	-3.7618E 06	2.
279	16	300.0(1.7)	8.9(0.5)	28.2(1.1)	-3.6(1.4)	-1.5(0.5)	19.1(6.8)	6.2(3.2)	9.1061E 07	6.3214E 07	-3.7579E 06	3.
279	17	311.0(25.0)	9.1(2.8)	45.3(25.1)	-5.5(1.2)	-0.2(1.9)	30.1(8.1)	-2.5(10.9)	9.0959E 07	6.3338E 07	-3.7524E 06	2.
279	18	310.0(9.8)	7.1(0.9)	30.5(2.3)	-6.3(1.5)	-0.5(1.8)	34.1(7.7)	-0.7(10.5)	9.0887E 07	6.3425E 07	-3.7485E 06	3.
279	19	300.0(0.0)	7.1(0.0)	22.8(0.0)	-5.4(0.0)	2.7(0.0)	26.5(0.0)	-16.8(0.0)	9.0828E 07	6.3495E 07	-3.7454E 06	1.
279	20	320.0(9.7)	8.8(0.6)	31.9(10.5)	-5.8(1.2)	1.8(0.5)	30.9(6.0)	-12.9(2.6)	9.0727E 07	6.3617E 07	-3.7399E 06	2.
279	21	313.0(18.9)	8.5(2.4)	26.8(8.5)	-5.4(0.9)	0.5(5.2)	28.4(6.1)	-6.8(29.0)	9.0625E 07	6.3741E 07	-3.7344E 06	3.
279	22	314.0(14.3)	8.2(1.6)	27.3(9.3)	-2.4(1.2)	0.1(6.6)	12.7(7.4)	-1.4(35.7)	9.0538E 07	6.3845E 07	-3.7297E 06	3.
279	23	307.0(2.4)	7.8(1.2)	33.9(9.3)	-6.1(1.1)	-3.6(0.0)	34.1(5.9)	15.8(0.6)	9.0463E 07	6.3934E 07	-3.7257E 06	2.
280	0	312.0(6.9)	10.5(1.1)	26.9(3.0)	-4.4(2.8)	-2.5(2.0)	25.0(13.3)	11.2(12.3)	9.0362E 07	6.4053E 07	-3.7203E 06	2.
280	1	308.0(6.9)	9.0(2.8)	36.2(4.8)	-4.5(1.6)	-3.4(1.9)	26.1(8.8)	15.7(10.1)	9.0275E 07	6.4155E 07	-3.7156E 06	3.
280	2	309.0(3.6)	11.2(1.4)	25.2(2.9)	-3.3(0.7)	-1.3(1.3)	18.5(3.3)	4.9(7.1)	9.0188E 07	6.4255E 07	-3.7110E 06	3.
280	3	316.0(3.1)	16.5(0.9)	34.8(4.8)	-2.6(0.8)	-2.7(1.0)	15.9(4.1)	13.2(5.2)	9.0101E 07	6.4356E 07	-3.7063E 06	3.
280	4	321.0(6.6)	15.6(1.6)	32.7(2.4)	-3.1(0.8)	-1.6(1.2)	17.8(4.2)	7.0(6.9)	9.0014E 07	6.4456E 07	-3.7017E 06	3.
280	5	329.0(5.8)	13.6(0.6)	37.2(7.5)	-3.0(0.4)	-0.7(0.5)	17.6(2.3)	2.4(3.2)	8.9926E 07	6.4557E 07	-3.6969E 06	3.
280	6	330.0(3.6)	12.1(1.3)	30.3(4.1)	-2.7(1.6)	-0.9(0.6)	15.6(8.8)	3.6(4.0)	8.9840E 07	6.4656E 07	-3.6923E 06	3.
280	7	336.0(3.7)	11.6(0.9)	30.3(4.6)	-1.6(1.2)	-0.6(0.9)	9.8(6.8)	2.3(5.2)	8.9751E 07	6.4757E 07	-3.6876E 06	3.
280	8	340.0(0.4)	11.4(0.6)	38.4(3.1)	-1.0(0.2)	-0.1(1.1)	6.0(0.6)	0.2(6.3)	8.9664E 07	6.4857E 07	-3.6830E 06	3.
280	9	327.0(16.6)	9.9(2.9)	29.0(10.6)	-1.1(0.4)	-1.0(0.2)	7.0(2.9)	5.1(1.4)	8.9591E 07	6.4940E 07	-3.6791E 06	2.
280	10	342.0(3.0)	12.5(0.7)	31.2(1.2)	-1.5(0.5)	-1.5(0.6)	9.8(3.0)	7.9(3.2)	8.9518E 07	6.5024E 07	-3.6751E 06	3.
280	11	342.0(1.3)	12.1(0.7)	31.3(6.1)	-2.7(0.5)	-0.9(0.3)	16.2(3.1)	3.5(2.3)	8.9445E 07	6.5106E 07	-3.6713E 06	2.
280	19	354.0(0.6)	19.2(4.7)	29.2(4.8)	-3.0(2.6)	-3.0(5.2)	20.2(13.0)	16.4(33.6)	8.8708E 07	6.5936E 07	-3.6320E 06	2.
280	20	354.0(1.1)	17.0(2.6)	31.5(3.1)	-4.7(1.1)	0.5(0.3)	28.3(6.8)	-5.9(2.4)	8.8633E 07	6.6019E 07	-3.6280E 06	3.
280	21	358.0(1.3)	18.7(3.2)	32.1(5.8)	-3.1(0.7)	0.8(1.1)	18.6(4.4)	-6.9(7.2)	8.8545E 07	6.6117E 07	-3.6233E 06	3.
280	22	366.0(5.6)	16.5(3.8)	28.4(1.7)	-2.3(0.7)	0.7(1.1)	14.2(4.7)	-5.6(6.8)	8.8455E 07	6.6217E 07	-3.6185E 06	3.
280	23	379.0(3.8)	14.9(3.4)	34.8(5.4)	-2.2(0.7)	2.5(0.5)	12.7(4.5)	-17.9(3.8)	8.8366E 07	6.6316E 07	-3.6138E 06	3.
281	0	379.0(0.0)	15.0(0.0)	33.5(0.0)	-2.0(0.0)	2.7(0.0)	11.6(0.0)	-18.8(0.0)	8.8306E 07	6.6383E 07	-3.6106E 06	1.
281	1	363.0(9.9)	15.3(4.1)	33.4(0.1)	-5.2(1.6)	2.4(0.4)	30.9(9.3)	-18.2(2.1)	8.8173E 07	6.6529E 07	-3.6035E 06	2.
281	2	356.0(20.3)	13.2(1.5)	35.0(4.2)	-6.5(1.7)	0.6(2.1)	39.5(10.8)	-8.5(13.5)	8.8097E 07	6.6613E 07	-3.5995E 06	3.
281	3	366.0(12.1)	21.0(2.1)	39.1(7.5)	-2.2(1.0)	1.0(3.7)	13.0(4.8)	-8.5(23.8)	8.8008E 07	6.6710E 07	-3.5948E 06	3.
281	4	378.0(9.2)	17.1(1.6)	30.6(7.1)	-1.9(2.0)	3.0(2.2)	10.2(12.1)	-21.0(15.2)	8.7917E 07	6.6810E 07	-3.5900E 06	3.
281	5	374.0(3.0)	14.5(1.0)	37.0(4.2)	2.1(1.3)	3.4(1.0)	-15.5(8.9)	-20.5(5.8)	8.7828E 07	6.6908E 07	-3.5852E 06	3.
281	6	403.0(2.3)	23.0(0.3)	34.8(2.0)	1.7(0.9)	0.7(0.8)	-12.4(5.6)	-3.8(6.3)	8.7738E 07	6.7006E 07	-3.5804E 06	3.
281	7	401.0(4.3)	23.2(2.0)	42.3(4.6)	1.4(0.6)	1.2(1.0)	-10.4(3.4)	-7.5(7.0)	8.7647E 07	6.7104E 07	-3.5756E 06	3.
281	8	400.0(7.6)	15.9(1.8)	35.3(3.9)	1.1(1.4)	1.5(0.9)	-8.5(9.1)	-9.7(7.0)	8.7557E 07	6.7203E 07	-3.5708E 06	3.
281	9	389.0(2.0)	15.6(1.1)	39.5(6.1)	1.6(0.4)	2.0(0.9)	-11.9(2.9)	-12.5(6.0)	8.7467E 07	6.7300E 07	-3.5661E 06	3.
281	10	379.0(8.1)	14.3(1.5)	44.3(3.4)	1.3(0.9)	2.0(1.8)	-9.5(6.0)	-12.4(11.9)	8.7376E 07	6.7399E 07	-3.5613E 06	3.
281	11	358.0(6.8)	12.5(0.8)	52.3(3.6)	-2.3(0.4)	1.6(1.0)	13.2(2.8)	-11.4(6.0)	8.7285E 07	6.7497E 07	-3.5564E 06	3.
281	12	362.0(10.2)	10.7(1.0)	57.8(0.4)	0.2(1.3)	2.5(1.6)	-2.9(6.9)	-15.3(10.2)	8.7210E 07	6.7578E 07	-3.5525E 06	2.
281	13	365.0(8.0)	10.0(0.9)	58.0(4.0)	-2.4(1.2)	1.2(1.7)	14.6(8.0)	-9.0(10.5)	8.7104E 07	6.7692E 07	-3.5468E 06	3.
281	14	355.0(13.1)	11.8(3.9)	70.8(24.0)	0.1(4.7)	1.2(0.1)	-0.7(28.6)	-7.4(2.8)	8.7028E 07	6.7774E 07	-3.5428E 06	2.
281	15	401.0(4.1)	8.3(0.3)	49.8(6.1)	-3.4(0.9)	2.5(0.2)	21.6(6.3)	-19.4(2.3)	8.6907E 07	6.7903E 07	-3.5364E 06	2.
281	16	373.0(0.0)	8.9(0.0)	51.0(0.0)	-1.9(0.0)	7.1(0.0)	7.5(0.0)	-46.8(0.0)	8.6861E 07	6.7952E 07	-3.5340E 06	1.
281	19	341.0(3.5)	7.8(0.6)	46.8(8.0)	0.8(0.8)	2.8(0.3)	-6.6(4.6)	-16.2(1.8)	8.6555E 07	6.8277E 07	-3.5179E 06	3.
281	20	341.0(2.6)	7.5(0.9)	39.7(5.8)	-1.3(1.0)	3.6(1.3)	5.4(5.3)	-22.1(8.8)	8.6464E 07	6.8374E 07	-3.5130E 06	3.
281	21	367.0(20.3)	9.6(1.7)	68.5(19.2)	-2.0(0.7)	3.3(2.2)	10.9(4.1)	-22.7(15.9)	8.6372E 07	6.8471E 07	-3.5082E 06	3.
281	22	347.0(5.1)	10.3(2.4)	51.7(13.7)	-2.4(1.1)	1.7(0.7)	13.4(5.8)	-11.4(4.7)	8.6280E 07	6.8568E 07	-3.5033E 06	3.
281	23	344.0(2.1)	11.4(1.7)	61.1(7.0)	-2.4(0.2)	2.4(1.0)	13.0(1.7)	-15.7(5.8)	8.6172E 07	6.8682E 07	-3.4976E 06	2.
282	0	374.0(15.9)	17.2(7.1)	50.9(3.5)	0.3(2.1)	-0.1(1.5)	-2.1(13.7)	1.0(9.1)	8.6095E 07	6.8763E 07	-3.4936E 06	3.

MARINER 5 ONE HOUR AVERAGES 7/26/72

1967 D	H	V	N	WQ	EW	NS	VT	VN	XSE	YSE	ZSE	ENTRIES
288	23	385.0(12.2)	7.5(1.4)	25.4(0.6)	-5.9(0.4)	-2.9(3.0)	41.8(2.0)	14.4(20.2)	6.9234E 07	8.3670E 07	-2.6237E 06	3.
289	0	373.0(9.5)	5.1(0.7)	24.9(4.0)	-5.7(2.5)	-6.6(1.5)	42.0(16.9)	38.3(9.9)	6.9122E 07	8.3754E 07	-2.6181E 06	3.
289	1	373.0(14.1)	6.4(0.9)	29.0(4.9)	-7.2(1.8)	-6.7(1.3)	52.0(13.0)	37.7(8.0)	6.9031E 07	8.3822E 07	-2.6134E 06	2.
289	2	371.0(10.8)	6.4(0.6)	26.4(7.3)	-7.4(2.1)	-1.8(2.9)	48.8(14.4)	5.8(17.1)	6.8936E 07	8.3892E 07	-2.6086E 06	3.
289	3	449.0(13.4)	6.3(1.7)	31.6(3.8)	-8.9(0.8)	-1.0(1.0)	70.4(5.4)	0.0(7.1)	6.8808E 07	8.3986E 07	-2.6021E 06	2.
289	4	451.0(31.6)	4.8(0.1)	26.6(7.3)	-7.5(2.5)	-1.3(5.7)	59.2(19.7)	2.0(41.0)	6.8713E 07	8.4058E 07	-2.5974E 06	3.
289	5	436.0(3.5)	5.8(0.6)	17.5(2.1)	-10.0(1.4)	-0.8(2.0)	76.8(13.6)	-2.6(14.1)	6.8583E 07	8.4154E 07	-2.5908E 06	2.
289	6	386.0(33.3)	4.5(1.3)	25.8(9.9)	-4.2(3.0)	-7.8(2.5)	35.3(21.8)	48.2(16.1)	6.8489E 07	8.4223E 07	-2.5860E 06	3.
289	7	363.0(10.1)	6.7(0.6)	34.9(3.0)	-8.1(1.6)	-0.6(1.0)	51.7(12.4)	-2.0(4.9)	6.8378E 07	8.4305E 07	-2.5804E 06	3.
289	8	356.0(9.6)	5.6(0.4)	31.1(3.3)	-7.1(0.7)	-2.1(1.1)	44.9(4.2)	7.8(6.2)	6.8283E 07	8.4375E 07	-2.5756E 06	2.
289	9	329.0(9.6)	5.9(1.2)	31.9(5.2)	-6.3(3.0)	2.8(2.0)	33.8(17.9)	-20.2(11.7)	6.8153E 07	8.4470E 07	-2.5691E 06	3.
289	10	330.0(10.1)	6.5(2.0)	32.1(13.5)	-7.9(1.0)	3.8(1.8)	43.1(6.6)	-26.9(11.1)	6.8040E 07	8.4553E 07	-2.5633E 06	3.
289	11	321.0(3.1)	5.8(0.5)	29.0(1.6)	-7.2(0.8)	3.6(0.8)	37.9(5.6)	-24.8(3.6)	6.7927E 07	8.4635E 07	-2.5577E 06	3.
289	12	331.0(8.5)	6.1(0.4)	35.3(3.6)	-6.1(0.7)	4.2(1.4)	32.1(4.2)	-28.5(9.3)	6.7815E 07	8.4717E 07	-2.5520E 06	3.
289	13	346.0(10.1)	9.0(1.8)	43.2(8.0)	-4.4(0.9)	-1.7(1.8)	27.4(3.5)	7.4(11.5)	6.7702E 07	8.4799E 07	-2.5463E 06	3.
289	14	387.0(16.4)	8.7(1.8)	42.5(10.9)	-2.4(0.6)	-5.4(0.9)	20.3(2.8)	34.8(7.5)	6.7589E 07	8.4881E 07	-2.5406E 06	3.
289	15	412.0(15.1)	6.9(0.1)	35.6(13.4)	-3.9(0.9)	-5.9(0.2)	32.4(5.3)	38.7(0.6)	6.7476E 07	8.4963E 07	-2.5349E 06	2.
289	16	396.0(38.6)	7.6(0.9)	41.5(12.6)	-2.7(1.3)	-6.2(1.2)	24.0(11.4)	40.8(11.2)	6.7363E 07	8.5045E 07	-2.5291E 06	3.
289	17	437.0(4.3)	6.7(0.8)	35.4(6.5)	-3.1(2.6)	-4.4(0.1)	26.9(19.1)	30.8(3.1)	6.7250E 07	8.5126E 07	-2.5234E 06	3.
289	18	450.0(14.6)	6.9(1.2)	37.1(4.6)	-3.8(0.8)	-7.9(1.2)	36.7(6.4)	58.2(8.2)	6.7136E 07	8.5208E 07	-2.5177E 06	3.
289	19	433.0(12.9)	6.5(1.0)	33.8(0.8)	-4.4(0.5)	-4.2(0.9)	36.8(1.7)	27.4(7.7)	6.7004E 07	8.5303E 07	-2.5110E 06	2.
289	20	417.0(15.9)	9.2(0.7)	48.9(11.1)	-4.1(0.6)	-5.7(0.1)	34.7(5.2)	38.0(0.9)	6.6909E 07	8.5371E 07	-2.5063E 06	3.
289	21	383.0(5.0)	8.2(1.5)	43.8(8.8)	-6.3(1.0)	-4.7(0.1)	45.3(6.1)	26.3(1.7)	6.6795E 07	8.5452E 07	-2.5005E 06	3.
289	22	373.0(14.7)	7.4(0.6)	38.7(8.0)	-6.1(1.7)	-6.0(0.2)	43.6(9.4)	34.8(1.5)	6.6682E 07	8.5534E 07	-2.4948E 06	3.
289	23	381.0(46.0)	8.0(1.4)	35.5(0.8)	-5.9(2.4)	-4.4(3.1)	41.8(8.2)	25.9(25.3)	6.6586E 07	8.5602E 07	-2.4900E 06	2.
290	0	411.0(4.4)	5.9(0.3)	33.8(2.6)	-6.1(1.1)	-6.2(2.2)	48.6(6.4)	39.0(16.2)	6.6476E 07	8.5682E 07	-2.4843E 06	2.
290	1	402.0(5.6)	9.5(0.4)	45.0(2.1)	-6.4(6.6)	-2.3(2.5)	46.7(43.9)	11.1(22.9)	6.6371E 07	8.5760E 07	-2.4787E 06	2.
290	2	403.0(17.0)	13.8(5.7)	46.2(6.5)	-4.3(2.0)	4.7(1.4)	25.7(12.0)	-35.8(9.8)	6.6232E 07	8.5864E 07	-2.4713E 06	2.
290	3	406.0(3.3)	17.4(3.3)	55.3(3.8)	-1.6(0.8)	3.7(2.4)	8.1(6.9)	-27.5(16.5)	6.6146E 07	8.5928E 07	-2.4667E 06	3.
290	4	408.0(9.5)	14.3(1.3)	44.4(10.4)	-2.0(0.9)	0.2(1.3)	13.6(6.9)	-2.9(9.2)	6.6042E 07	8.6006E 07	-2.4611E 06	3.
290	5	386.0(11.3)	10.6(0.0)	39.0(3.1)	-2.6(0.5)	-0.4(2.7)	17.6(5.0)	0.2(17.5)	6.5937E 07	8.6084E 07	-2.4555E 06	3.
290	6	372.0(26.4)	12.3(6.5)	44.4(18.5)	-0.7(2.9)	-0.6(1.5)	6.1(17.6)	2.9(11.0)	6.5834E 07	8.6160E 07	-2.4500E 06	3.
290	7	379.0(2.7)	11.9(1.4)	43.8(7.6)	-2.5(0.5)	-0.2(0.3)	16.6(3.2)	-0.8(1.8)	6.5729E 07	8.6239E 07	-2.4443E 06	3.
290	8	374.0(2.1)	12.9(3.4)	43.5(2.3)	-3.3(2.1)	-0.6(1.7)	21.4(12.3)	1.2(12.6)	6.5625E 07	8.6315E 07	-2.4388E 06	3.
290	9	371.0(0.7)	18.3(0.9)	47.8(7.0)	-5.5(1.2)	2.9(0.8)	33.0(7.7)	-23.1(5.5)	6.5520E 07	8.6393E 07	-2.4331E 06	3.
290	10	374.0(2.4)	14.9(1.5)	48.5(6.7)	-4.3(0.3)	2.7(0.3)	25.4(1.8)	-21.0(2.2)	6.5417E 07	8.6469E 07	-2.4276E 06	3.
290	11	378.0(2.7)	13.0(0.7)	39.1(8.4)	-3.5(0.1)	3.1(0.3)	20.3(0.7)	-22.9(1.6)	6.5311E 07	8.6547E 07	-2.4219E 06	3.
290	12	377.0(5.7)	12.5(1.5)	45.7(9.1)	-4.5(0.9)	3.9(0.2)	26.5(5.7)	-29.0(1.4)	6.5208E 07	8.6623E 07	-2.4164E 06	3.
290	13	378.0(4.6)	12.4(1.1)	33.4(7.1)	-2.8(0.1)	1.1(0.6)	17.6(0.9)	-9.6(4.1)	6.5102E 07	8.6701E 07	-2.4107E 06	3.
290	14	376.0(2.0)	32.1(4.3)	22.0(1.3)	-3.0(0.4)	-1.2(0.6)	20.6(3.0)	5.7(3.9)	6.4998E 07	8.6777E 07	-2.4051E 06	3.
290	15	371.0(2.0)	19.9(8.7)	29.5(4.4)	-3.2(1.8)	-0.6(0.3)	20.7(12.0)	1.4(0.8)	6.4894E 07	8.6854E 07	-2.3995E 06	3.
290	16	389.0(3.8)	12.2(0.6)	40.0(9.3)	-0.3(1.5)	1.0(0.8)	1.1(10.9)	-6.7(4.9)	6.4790E 07	8.6929E 07	-2.3939E 06	3.
290	17	391.0(17.4)	12.4(3.0)	36.2(11.5)	-1.2(1.3)	1.4(1.8)	6.7(9.6)	-10.6(12.3)	6.4685E 07	8.7006E 07	-2.3883E 06	3.
290	18	404.0(3.3)	14.5(4.3)	40.3(18.9)	0.9(1.5)	2.7(0.9)	-8.4(11.0)	-17.8(4.8)	6.4598E 07	8.7069E 07	-2.3836E 06	2.
290	19	388.0(0.4)	11.7(0.5)	44.8(6.2)	-2.6(0.1)	1.8(0.8)	15.9(1.1)	-14.3(5.4)	6.4493E 07	8.7145E 07	-2.3780E 06	2.
290	20	392.0(11.5)	10.8(1.8)	42.2(13.4)	-2.4(1.5)	2.8(2.8)	14.2(10.5)	-20.7(19.3)	6.4406E 07	8.7209E 07	-2.3733E 06	3.
290	21	390.0(1.4)	11.9(0.7)	46.1(2.8)	-0.8(2.8)	0.2(1.1)	5.3(18.6)	-1.9(9.6)	6.4302E 07	8.7284E 07	-2.3677E 06	3.
290	22	387.0(0.0)	15.2(0.0)	57.9(0.0)	-4.1(0.0)	3.1(0.0)	25.3(0.0)	-24.3(0.0)	6.4231E 07	8.7335E 07	-2.3639E 06	1.
291	2	423.0(10.7)	7.8(0.8)	41.7(5.9)	-2.1(1.1)	4.7(1.1)	11.3(6.9)	-36.2(8.2)	6.3777E 07	8.7663E 07	-2.3394E 06	3.
291	3	421.0(5.7)	8.3(0.4)	40.4(9.8)	-0.1(0.9)	1.8(1.0)	-1.3(7.7)	-13.5(6.6)	6.3656E 07	8.7749E 07	-2.3329E 06	2.
291	4	421.0(9.2)	11.7(1.0)	40.8(16.1)	-2.0(1.2)	1.8(0.8)	13.5(8.5)	-14.6(6.6)	6.3567E 07	8.7813E 07	-2.3281E 06	3.
291	5	420.0(20.0)	13.3(2.6)	30.5(4.7)	-3.4(2.4)	-0.1(0.3)	24.3(16.9)	-2.0(3.2)	6.3463E 07	8.7887E 07	-2.3225E 06	3.
291	6	413.0(19.2)	10.9(3.5)	38.0(8.0)	-2.8(0.6)	-0.7(0.5)	20.5(4.8)	2.8(3.5)	6.3358E 07	8.7963E 07	-2.3168E 06	3.
291	7	407.0(7.2)	8.2(0.9)	34.1(0.4)	-4.1(0.7)	-0.6(0.5)	29.4(5.8)	0.9(3.3)	6.3253E 07	8.8037E 07	-2.3112E 06	3.

MARINER 5 ONE HOUR AVERAGES

7/26/72

1967

D	H	V	N	W	EW	NS	VT	VN	XSE	YSE	ZSE	ENTRIES
302	5	463.0(7.9)	6.0(0.6)	34.3(6.8)	-7.4(1.3)	2.4(0.9)	57.1(12.2)	-26.8(7.3)	3.3340E 07	1.0033E 08	-1.7279E 06	3.
302	6	458.0(8.5)	6.8(0.7)	30.3(5.3)	-7.0(0.1)	2.0(1.4)	53.3(0.4)	-23.3(11.7)	3.3229E 07	1.0036E 08	-1.7258E 06	2.
302	7	456.0(4.5)	5.3(0.1)	41.6(8.7)	-6.0(0.2)	1.8(1.3)	45.2(3.2)	-20.3(10.1)	3.3116E 07	1.0039E 08	-1.7236E 06	3.
302	8	456.0(5.7)	4.9(0.5)	34.8(0.5)	-6.0(0.3)	0.6(2.3)	46.9(3.2)	-11.0(18.6)	3.3004E 07	1.0042E 08	-1.7214E 06	3.
302	9	451.0(14.1)	3.9(0.4)	32.3(11.1)	-5.8(0.3)	2.7(1.6)	42.5(2.5)	-26.6(12.2)	3.2891E 07	1.0044E 08	-1.7193E 06	3.
302	10	457.0(11.6)	4.0(1.0)	24.9(1.4)	-6.0(1.9)	1.5(2.6)	45.6(13.8)	-17.7(21.2)	3.2779E 07	1.0047E 08	-1.7171E 06	3.
302	11	482.0(19.1)	4.5(0.8)	29.6(4.2)	-2.5(0.1)	1.2(1.5)	19.5(1.5)	-12.3(11.6)	3.2666E 07	1.0050E 08	-1.7149E 06	3.
302	12	478.0(2.9)	5.5(0.1)	27.3(3.5)	-2.4(0.5)	1.0(0.4)	18.7(3.8)	-10.9(3.6)	3.2554E 07	1.0052E 08	-1.7128E 06	3.
302	13	478.0(9.8)	5.2(0.6)	26.1(5.2)	-2.6(0.7)	1.1(0.9)	20.4(4.9)	-11.4(8.1)	3.2441E 07	1.0055E 08	-1.7106E 06	3.
302	14	474.0(0.9)	6.3(0.6)	31.8(5.0)	-3.0(0.9)	1.4(0.5)	23.4(7.2)	-14.5(4.9)	3.2329E 07	1.0058E 08	-1.7084E 06	3.
302	15	464.0(14.9)	7.6(3.9)	44.1(23.4)	0.5(2.4)	1.0(1.7)	-4.9(20.3)	-7.3(11.8)	3.2217E 07	1.0060E 08	-1.7062E 06	3.
302	16	438.0(3.7)	7.5(0.3)	22.1(1.1)	-0.4(1.4)	3.4(0.3)	0.0(10.2)	-25.8(3.5)	3.2104E 07	1.0063E 08	-1.7041E 06	3.
302	17	436.0(0.5)	10.5(0.7)	23.5(0.5)	-2.3(0.5)	1.7(1.3)	15.7(3.8)	-14.9(9.5)	3.1992E 07	1.0065E 08	-1.7019E 06	3.
302	18	423.0(8.7)	10.8(0.5)	26.5(2.6)	-0.3(1.5)	3.3(1.6)	-0.8(12.3)	-24.8(11.4)	3.1880E 07	1.0068E 08	-1.6997E 06	3.
302	19	402.0(3.9)	11.1(0.1)	25.3(2.4)	-1.4(0.8)	3.4(0.3)	6.5(5.7)	-24.6(1.6)	3.1768E 07	1.0070E 08	-1.6975E 06	3.
302	20	394.0(1.2)	9.9(0.0)	25.1(0.2)	-0.2(0.6)	2.7(0.2)	-0.8(3.6)	-18.7(1.8)	3.1637E 07	1.0073E 08	-1.6950E 06	2.
302	21	383.0(1.1)	11.1(0.4)	25.3(0.4)	0.7(0.3)	2.6(0.1)	-6.9(2.0)	-16.4(0.3)	3.1563E 07	1.0075E 08	-1.6936E 06	2.
302	22	374.0(1.1)	13.9(0.8)	22.3(1.0)	0.1(1.0)	3.4(0.5)	-3.5(7.0)	-21.6(2.7)	3.1469E 07	1.0077E 08	-1.6917E 06	3.
302	23	373.0(3.7)	13.0(2.0)	21.8(1.1)	0.0(0.9)	3.2(0.5)	-2.7(5.6)	-20.4(3.5)	3.1357E 07	1.0080E 08	-1.6895E 06	3.
303	0	368.0(3.8)	12.1(0.5)	21.0(1.7)	-1.4(0.8)	3.5(0.7)	6.0(5.5)	-23.3(4.1)	3.1244E 07	1.0082E 08	-1.6873E 06	3.
303	1	367.0(9.6)	12.1(0.7)	26.8(5.8)	-1.5(2.2)	3.3(0.4)	6.6(14.0)	-22.2(1.6)	3.1133E 07	1.0085E 08	-1.6852E 06	3.
303	2	346.0(8.0)	13.2(2.0)	32.7(7.0)	-4.3(2.2)	3.6(0.4)	23.2(13.7)	-24.9(4.5)	3.1020E 07	1.0087E 08	-1.6830E 06	3.
303	3	350.0(1.4)	11.8(0.5)	27.0(4.9)	-2.9(0.9)	3.3(0.6)	14.9(5.1)	-21.8(4.3)	3.0891E 07	1.0090E 08	-1.6804E 06	2.
303	4	341.0(0.0)	9.8(0.0)	19.0(0.0)	-1.2(0.0)	3.9(0.0)	4.4(0.0)	-23.8(0.0)	3.0833E 07	1.0091E 08	-1.6793E 06	1.
303	19	293.0(10.5)	8.5(0.9)	31.3(7.4)	-5.2(1.6)	-2.2(0.7)	28.0(9.6)	8.0(2.8)	2.9103E 07	1.0127E 08	-1.6453E 06	2.
303	20	288.0(3.4)	8.7(1.1)	31.1(1.2)	-4.5(1.0)	-2.4(0.6)	23.9(5.6)	9.3(2.7)	2.9010E 07	1.0129E 08	-1.6434E 06	3.
303	21	295.0(13.6)	9.8(1.0)	32.1(2.3)	-5.1(1.4)	-1.0(3.7)	26.8(10.4)	2.5(17.4)	2.8898E 07	1.0131E 08	-1.6412E 06	3.
303	22	295.0(12.1)	15.5(7.9)	52.3(40.7)	-4.2(2.9)	5.0(2.1)	17.7(15.6)	-28.6(10.1)	2.8787E 07	1.0133E 08	-1.6390E 06	3.
303	23	297.0(7.7)	9.9(1.3)	34.0(1.1)	1.1(0.1)	1.7(1.7)	-6.5(0.5)	-7.8(8.6)	2.8675E 07	1.0135E 08	-1.6368E 06	3.
304	0	300.0(13.5)	7.6(1.3)	25.7(6.0)	-1.1(1.9)	-1.7(3.0)	6.4(8.7)	8.5(16.6)	2.8564E 07	1.0137E 08	-1.6346E 06	3.
304	1	309.0(3.3)	7.7(0.8)	26.9(1.7)	-0.7(0.4)	-2.8(0.8)	5.7(2.3)	14.6(4.0)	2.8453E 07	1.0140E 08	-1.6324E 06	3.
304	2	312.0(4.9)	9.5(1.0)	26.2(1.8)	-0.8(2.0)	-4.1(0.9)	6.9(10.0)	21.4(6.2)	2.8342E 07	1.0142E 08	-1.6302E 06	3.
304	3	326.0(7.2)	13.7(2.0)	32.4(3.8)	-3.1(0.5)	-3.7(0.4)	19.8(3.5)	18.7(2.4)	2.8230E 07	1.0144E 08	-1.6279E 06	3.
304	4	317.0(3.8)	13.5(0.0)	23.9(4.8)	-0.8(1.0)	-4.3(0.0)	7.6(5.5)	23.1(1.1)	2.8138E 07	1.0146E 08	-1.6261E 06	2.
304	5	317.0(3.1)	13.2(1.5)	26.4(4.4)	1.1(0.6)	-3.2(1.0)	-3.7(2.4)	18.2(6.0)	2.8007E 07	1.0148E 08	-1.6235E 06	3.
304	6	313.0(0.4)	13.5(2.7)	23.0(5.7)	1.7(0.4)	-3.3(0.6)	-6.7(1.5)	18.6(3.7)	2.7916E 07	1.0150E 08	-1.6217E 06	2.
304	7	306.0(6.5)	13.1(3.3)	30.6(14.2)	-2.5(2.0)	-3.0(0.4)	15.3(10.8)	14.0(0.9)	2.7785E 07	1.0152E 08	-1.6190E 06	3.
304	8	304.0(9.6)	16.5(1.0)	34.3(2.0)	-1.8(1.7)	-4.8(1.2)	12.7(9.1)	23.7(5.2)	2.7675E 07	1.0154E 08	-1.6168E 06	3.
304	9	301.0(3.1)	12.9(1.9)	33.4(5.5)	-3.5(2.6)	-5.0(2.1)	21.2(12.8)	23.6(11.8)	2.7563E 07	1.0156E 08	-1.6146E 06	3.
304	10	302.0(1.1)	14.0(1.1)	40.6(3.1)	-4.9(1.0)	-3.3(0.3)	27.4(5.0)	14.2(1.8)	2.7452E 07	1.0158E 08	-1.6124E 06	3.
304	11	297.0(8.1)	15.1(0.1)	41.6(1.0)	-5.1(1.0)	-2.8(0.9)	27.9(6.3)	11.0(4.1)	2.7359E 07	1.0160E 08	-1.6105E 06	2.
304	12	293.0(3.0)	12.1(1.0)	32.5(5.1)	-4.6(0.5)	-0.4(2.3)	23.4(1.8)	-0.6(12.0)	2.7231E 07	1.0162E 08	-1.6079E 06	3.
304	13	293.0(4.9)	11.4(0.9)	31.6(3.3)	-5.1(0.8)	0.9(1.2)	25.2(4.2)	-7.8(5.8)	2.7119E 07	1.0164E 08	-1.6057E 06	3.
304	14	358.0(7.9)	18.1(2.0)	35.3(1.9)	1.8(1.0)	1.8(1.3)	-12.5(5.4)	-9.5(8.2)	2.7008E 07	1.0166E 08	-1.6035E 06	3.
304	15	369.0(0.6)	20.8(3.6)	43.6(23.1)	-3.4(0.4)	3.0(2.6)	19.3(0.3)	-21.9(17.0)	2.6916E 07	1.0167E 08	-1.6016E 06	2.
304	16	348.0(7.8)	13.8(0.7)	31.6(3.9)	-7.6(1.5)	4.8(1.8)	41.7(9.0)	-35.1(10.6)	2.6823E 07	1.0169E 08	-1.5997E 06	3.
304	17	304.0(7.6)	15.1(1.5)	38.7(3.3)	-5.6(3.5)	1.5(2.2)	28.9(20.6)	-11.8(10.2)	2.6712E 07	1.0171E 08	-1.5975E 06	3.
304	18	338.0(18.2)	14.5(3.2)	31.6(2.4)	-9.3(3.1)	2.8(3.5)	52.7(5.4)	-22.7(18.7)	2.6602E 07	1.0173E 08	-1.5953E 06	3.
304	19	341.0(27.7)	12.5(1.3)	32.9(3.3)	-3.3(6.7)	-3.9(6.6)	20.4(37.0)	21.5(41.1)	2.6491E 07	1.0175E 08	-1.5930E 06	3.
304	20	371.0(0.0)	21.9(0.0)	64.8(0.0)	2.6(0.0)	-0.7(0.0)	-16.2(0.0)	6.6(0.0)	2.6343E 07	1.0177E 08	-1.5901E 06	1.
304	21	390.0(6.1)	19.1(4.7)	49.5(12.1)	-0.3(2.1)	6.0(0.8)	-3.6(13.3)	-40.5(6.1)	2.6270E 07	1.0178E 08	-1.5886E 06	3.
304	22	377.0(6.2)	28.3(5.9)	39.1(2.8)	0.2(1.0)	5.3(0.6)	-5.7(6.4)	-34.0(4.8)	2.6158E 07	1.0180E 08	-1.5863E 06	3.
304	23	372.0(2.8)	39.9(6.1)	37.0(6.1)	0.6(0.6)	5.4(1.0)	-8.0(4.6)	-34.3(6.0)	2.6048E 07	1.0182E 08	-1.5841E 06	3.
305	0	375.0(10.2)	12.8(3.6)	34.2(8.5)	1.6(0.7)	9.4(0.2)	-18.2(4.8)	-60.0(1.0)	2.5936E 07	1.0184E 08	-1.5818E 06	3.

MARINER 5 ONE HOUR AVERAGES

7/26/72

1967 D	H	V	N	WD	EW	NS	VT	VN	XSE	YSE	ZSE	ENTRIES
315	12	448.0(11.0)	8.6(1.0)	55.7(10.4)	-2.4(1.0)	-1.7(0.7)	20.3(8.7)	11.2(4.8)	-3.8427E 06	1.0135E 08	-9.1927E 05	3.
315	13	443.0(13.3)	9.1(1.1)	59.6(16.3)	-1.1(1.0)	-2.7(0.6)	10.5(6.9)	19.4(5.5)	-3.9806E 06	1.0133E 08	-9.1599E 05	3.
315	14	426.0(18.8)	9.1(2.6)	55.0(17.8)	-1.2(0.9)	-2.3(0.5)	11.1(6.9)	15.5(4.5)	-4.1208E 06	1.0131E 08	-9.1266E 05	3.
315	15	439.0(9.9)	10.0(0.9)	55.4(2.9)	0.2(3.0)	-1.8(1.3)	0.6(23.6)	13.7(7.9)	-4.2581E 06	1.0128E 08	-9.0940E 05	3.
315	16	422.0(15.0)	10.8(1.4)	60.1(7.3)	4.3(1.1)	1.8(1.4)	-32.9(7.6)	-9.1(10.8)	-4.3986E 06	1.0126E 08	-9.0606E 05	3.
315	17	407.0(10.6)	9.8(1.5)	54.0(8.0)	1.4(2.6)	-2.8(1.7)	-6.9(19.0)	20.7(10.0)	-4.5370E 06	1.0124E 08	-9.0276E 05	3.
315	18	401.0(3.3)	9.8(0.5)	52.4(0.3)	1.1(1.9)	-1.4(0.2)	-6.7(13.6)	10.6(0.5)	-4.6537E 06	1.0122E 08	-8.9998E 05	2.
315	19	386.0(4.7)	8.2(1.0)	42.3(5.9)	0.3(2.4)	0.2(2.0)	-2.1(16.3)	-1.3(12.8)	-4.8155E 06	1.0119E 08	-8.9613E 05	3.
315	20	434.0(0.0)	8.8(0.0)	44.5(0.0)	-4.2(0.0)	-2.7(0.0)	33.9(0.0)	16.5(0.0)	-4.9105E 06	1.0117E 08	-8.9387E 05	1.
316	3	455.0(0.0)	3.5(0.0)	46.0(0.0)	-3.2(0.0)	-4.0(0.0)	28.9(0.0)	28.4(0.0)	-5.9833E 06	1.0098E 08	-8.6826E 05	1.
316	4	466.0(23.4)	4.0(0.8)	53.7(19.5)	-3.3(1.8)	-0.9(3.3)	28.0(16.0)	4.5(26.0)	-6.0779E 06	1.0097E 08	-8.6600E 05	3.
316	5	444.0(15.5)	3.9(0.6)	46.4(7.8)	-1.5(2.5)	-3.2(2.7)	14.7(19.9)	23.4(21.7)	-6.2187E 06	1.0094E 08	-8.6264E 05	3.
316	6	423.0(9.8)	4.2(1.3)	48.5(19.3)	-2.3(0.9)	-2.8(0.5)	19.3(6.9)	18.2(4.2)	-6.3593E 06	1.0092E 08	-8.5927E 05	3.
316	7	418.0(2.1)	5.1(1.8)	47.8(3.6)	-3.1(0.5)	-1.7(2.2)	23.9(4.7)	9.8(15.8)	-6.5001E 06	1.0089E 08	-8.5590E 05	3.
316	8	421.0(1.6)	8.2(1.9)	48.8(9.6)	-1.2(2.4)	-0.9(1.1)	9.2(17.7)	5.5(8.1)	-6.6412E 06	1.0086E 08	-8.5252E 05	3.
316	9	440.0(5.7)	7.0(0.9)	47.9(29.0)	-5.0(0.7)	-4.5(2.1)	42.5(7.7)	30.1(15.5)	-6.7825E 06	1.0084E 08	-8.4914E 05	3.
316	10	423.0(6.9)	6.9(0.7)	45.4(2.5)	-5.8(1.2)	-5.6(1.1)	47.3(8.9)	36.1(8.5)	-6.9239E 06	1.0081E 08	-8.4575E 05	3.
316	11	410.0(14.3)	5.4(0.8)	37.4(8.4)	-7.8(1.1)	-4.3(1.8)	58.5(4.1)	24.3(14.3)	-7.0428E 06	1.0079E 08	-8.4290E 05	2.
316	12	439.0(39.2)	6.5(1.2)	52.3(16.0)	-7.8(1.1)	-6.0(5.8)	64.6(8.6)	37.0(42.2)	-7.2310E 06	1.0075E 08	-8.3838E 05	2.
316	13	459.0(22.4)	6.1(1.1)	42.4(11.9)	-8.4(0.8)	0.6(2.5)	66.4(8.0)	-13.4(21.1)	-7.3497E 06	1.0073E 08	-8.3553E 05	3.
316	14	475.0(31.2)	7.5(2.1)	51.5(13.3)	-3.8(2.0)	-1.8(2.6)	32.5(14.6)	10.3(22.2)	-7.4917E 06	1.0070E 08	-8.3212E 05	3.
316	15	549.0(9.7)	7.3(0.6)	57.6(10.3)	-0.2(0.5)	-0.9(1.2)	3.1(3.7)	8.0(12.0)	-7.6337E 06	1.0068E 08	-8.2871E 05	3.
316	16	544.0(14.9)	5.6(0.1)	47.1(3.4)	0.5(0.5)	-0.9(1.0)	-3.6(3.9)	8.8(9.4)	-7.7756E 06	1.0065E 08	-8.2530E 05	3.
316	17	579.0(24.6)	6.4(0.3)	58.9(14.5)	-3.1(1.4)	-0.7(2.4)	31.7(17.6)	3.9(21.9)	-7.9188E 06	1.0062E 08	-8.2186E 05	3.
316	18	564.0(23.4)	5.0(1.1)	37.9(12.4)	-0.7(4.0)	-0.7(3.7)	8.5(34.8)	5.6(39.6)	-8.0596E 06	1.0059E 08	-8.1847E 05	3.
316	19	532.0(6.7)	6.3(0.4)	47.8(6.1)	0.7(0.2)	-3.4(0.6)	-2.2(2.7)	32.2(5.3)	-8.2035E 06	1.0057E 08	-8.1501E 05	3.
316	20	604.0(0.0)	4.9(0.0)	29.3(0.0)	-2.6(0.0)	1.6(0.0)	24.6(0.0)	-19.9(0.0)	-8.2986E 06	1.0055E 08	-8.1272E 05	1.
317	4	467.0(0.0)	5.5(0.0)	39.3(0.0)	-2.2(0.0)	2.0(0.0)	16.0(0.0)	-18.5(0.0)	-9.4922E 06	1.0031E 08	-7.8393E 05	1.
317	5	484.0(8.7)	6.6(1.9)	47.3(1.8)	-1.1(4.3)	1.7(1.9)	7.2(37.8)	-15.1(11.4)	-9.6126E 06	1.0028E 08	-7.8102E 05	2.
317	6	493.0(5.2)	5.6(0.4)	44.3(7.5)	-3.5(1.0)	-0.2(0.3)	30.2(7.6)	-1.8(3.6)	-9.7323E 06	1.0026E 08	-7.7813E 05	3.
317	7	478.0(2.8)	6.8(0.3)	44.8(0.8)	-4.2(1.1)	1.2(0.9)	33.6(8.7)	-13.8(7.9)	-9.8761E 06	1.0023E 08	-7.7465E 05	3.
317	8	474.0(4.8)	6.7(0.5)	42.0(4.0)	-4.5(2.0)	2.7(0.7)	34.1(16.3)	-26.5(7.8)	-1.0021E 07	1.0020E 08	-7.7114E 05	3.
317	9	462.0(4.9)	6.3(0.4)	38.8(6.7)	-1.4(0.8)	1.7(1.8)	9.7(6.5)	-14.6(14.9)	-1.0165E 07	1.0017E 08	-7.6767E 05	3.
317	10	459.0(4.6)	6.4(0.5)	37.0(1.9)	-1.2(0.6)	-0.9(1.0)	10.4(5.2)	6.3(7.3)	-1.0310E 07	1.0014E 08	-7.6416E 05	3.
317	11	454.0(7.6)	6.0(0.5)	37.2(1.6)	-2.9(3.1)	1.6(2.2)	21.7(22.4)	-15.3(20.1)	-1.0454E 07	1.0011E 08	-7.6066E 05	3.
317	12	480.0(16.9)	6.9(1.1)	45.8(5.1)	-3.8(2.4)	1.4(2.0)	29.1(20.8)	-15.6(14.6)	-1.0599E 07	1.0008E 08	-7.5716E 05	3.
317	13	495.0(16.1)	8.4(2.8)	67.9(35.6)	-2.2(0.4)	4.1(1.2)	14.4(2.1)	-36.8(9.3)	-1.0743E 07	1.0005E 08	-7.5367E 05	3.
317	14	502.0(6.1)	7.5(1.2)	54.1(10.5)	-1.7(1.7)	3.3(1.8)	11.5(15.5)	-30.7(14.8)	-1.0889E 07	1.0002E 08	-7.5011E 05	3.
317	15	538.0(36.0)	8.1(1.3)	58.4(16.4)	0.0(1.7)	4.3(0.9)	-5.0(15.2)	-40.3(11.2)	-1.1033E 07	9.9986E 07	-7.4663E 05	3.
317	16	542.0(17.3)	8.4(1.7)	68.8(25.7)	-1.9(0.4)	0.6(1.9)	16.9(1.7)	-8.0(18.0)	-1.1180E 07	9.9954E 07	-7.4306E 05	3.
317	17	520.0(7.9)	7.8(0.8)	60.8(12.1)	-0.3(1.3)	0.5(1.9)	2.0(9.8)	-4.7(18.2)	-1.1324E 07	9.9923E 07	-7.3956E 05	3.
317	18	521.0(10.3)	7.1(0.8)	58.4(9.5)	-0.4(2.7)	1.9(1.2)	1.4(25.1)	-17.3(9.1)	-1.1471E 07	9.9891E 07	-7.3600E 05	3.
317	19	534.0(16.2)	6.9(0.6)	58.7(8.6)	-0.6(2.4)	1.0(1.2)	3.8(22.9)	-10.3(9.0)	-1.1615E 07	9.9860E 07	-7.3248E 05	3.
317	20	608.0(10.0)	8.1(1.3)	78.0(22.6)	1.9(1.3)	0.6(3.9)	-21.3(16.9)	-4.1(40.4)	-1.1763E 07	9.9828E 07	-7.2890E 05	3.
317	21	575.0(24.9)	7.6(1.1)	72.8(13.1)	-2.0(1.1)	1.8(3.7)	18.3(16.4)	-19.8(34.8)	-1.1883E 07	9.9801E 07	-7.2598E 05	2.
318	4	580.0(0.9)	6.0(0.4)	66.3(10.2)	3.0(4.0)	0.6(0.5)	-30.4(40.5)	-2.4(0.1)	-1.2958E 07	9.9561E 07	-6.9979E 05	2.
318	5	589.0(33.5)	4.9(0.7)	52.9(9.4)	1.7(2.1)	2.6(2.3)	-20.5(24.5)	-25.2(22.0)	-1.3080E 07	9.9533E 07	-6.9682E 05	3.
318	6	576.0(23.4)	5.7(0.8)	64.4(15.1)	-1.0(1.9)	-0.1(1.2)	9.5(17.3)	-0.3(14.0)	-1.3226E 07	9.9500E 07	-6.9325E 05	2.
318	7	571.0(7.2)	4.7(0.8)	54.3(9.5)	-0.5(0.2)	-1.5(0.4)	6.8(2.6)	13.8(3.6)	-1.3374E 07	9.9466E 07	-6.8964E 05	2.
318	8	576.0(15.5)	6.0(0.5)	78.2(6.8)	-0.7(0.6)	-1.5(1.4)	9.0(6.3)	13.9(14.1)	-1.3522E 07	9.9432E 07	-6.8602E 05	3.
318	9	591.0(14.0)	6.7(1.6)	73.3(32.5)	-1.5(2.6)	-1.2(2.7)	17.2(23.2)	10.2(30.2)	-1.3669E 07	9.9398E 07	-6.8244E 05	3.
318	10	583.0(3.7)	5.9(1.4)	70.1(27.4)	-0.7(0.1)	1.5(0.4)	5.0(0.5)	-16.2(4.7)	-1.3816E 07	9.9364E 07	-6.7883E 05	2.
318	11	581.0(19.1)	5.4(1.3)	67.6(18.9)	0.9(1.5)	1.0(1.1)	-9.5(12.9)	-9.6(12.7)	-1.3964E 07	9.9329E 07	-6.7521E 05	3.
318	12	601.0(0.0)	5.3(0.0)	46.2(0.0)	3.3(0.0)	1.0(0.0)	-36.0(0.0)	-6.5(0.0)	-1.4062E 07	9.9307E 07	-6.7283E 05	1.

MARINER 5 ONE HOUR AVERAGES

7/26/72

1967 D	H	V	N	WQ	EW	NS	VT	VN	XSE	YSE	ZSE	ENTRIES
319	4	578.0(0.0)	4.5(0.0)	66.3(0.0)	-3.1(0.0)	2.9(0.0)	27.4(0.0)	-32.7(0.0)	-1.6494E 07	9.8720E 07	-6.1313E 05	1.
319	5	598.0(0.0)	5.3(0.0)	63.3(0.0)	5.4(0.0)	3.7(0.0)	-60.3(0.0)	-31.7(0.0)	-1.6596E 07	9.8695E 07	-6.1062E 05	1.
319	6	582.0(20.4)	4.8(0.9)	60.3(16.9)	0.7(2.0)	1.0(1.9)	-8.5(19.5)	-9.2(19.3)	-1.6745E 07	9.8658E 07	-6.0696E 05	3.
319	7	594.0(32.7)	5.1(0.1)	59.4(11.6)	-0.9(2.8)	0.8(1.7)	9.0(29.9)	-8.8(13.3)	-1.6895E 07	9.8620E 07	-6.0326E 05	3.
319	8	604.0(5.2)	5.5(0.7)	72.9(16.2)	-1.2(1.9)	4.1(5.5)	7.8(25.8)	-44.1(55.9)	-1.7046E 07	9.8582E 07	-5.9953E 05	3.
319	9	564.0(17.6)	5.3(0.9)	67.8(20.3)	0.4(2.8)	2.3(0.9)	-6.0(25.7)	-21.7(12.0)	-1.7196E 07	9.8545E 07	-5.9584E 05	3.
319	10	599.0(48.5)	4.3(1.2)	61.2(28.5)	0.7(2.6)	0.4(3.0)	-7.2(30.5)	-3.5(28.1)	-1.7347E 07	9.8506E 07	-5.9211E 05	3.
319	11	558.0(1.5)	4.5(0.1)	62.1(16.5)	0.8(1.7)	1.6(1.2)	-9.2(17.5)	-14.2(9.5)	-1.7472E 07	9.8475E 07	-5.8903E 05	2.
319	12	591.0(37.7)	5.3(2.2)	80.7(38.6)	-0.2(2.7)	1.3(1.1)	1.4(26.5)	-14.1(15.0)	-1.7649E 07	9.8430E 07	-5.8466E 05	2.
319	13	587.0(15.0)	4.7(1.5)	68.4(24.5)	0.5(0.6)	5.7(0.7)	-12.0(6.3)	-57.3(5.9)	-1.7800E 07	9.8391E 07	-5.8094E 05	3.
319	14	603.0(5.2)	3.5(0.1)	48.3(6.0)	-2.0(0.2)	4.2(4.4)	15.7(7.1)	-45.7(45.6)	-1.7952E 07	9.8352E 07	-5.7718E 05	2.
319	15	586.0(0.0)	6.0(0.0)	84.7(0.0)	-2.0(0.0)	1.9(0.0)	18.5(0.0)	-21.3(0.0)	-1.8051E 07	9.8327E 07	-5.7473E 05	1.
319	16	574.0(16.3)	5.0(0.7)	73.5(25.2)	2.1(5.9)	2.1(1.0)	-22.3(56.5)	-18.3(16.6)	-1.8279E 07	9.8268E 07	-5.6909E 05	2.
319	17	566.0(0.0)	5.6(0.0)	77.1(0.0)	2.5(0.0)	5.1(0.0)	-30.3(0.0)	-47.5(0.0)	-1.8355E 07	9.8248E 07	-5.6722E 05	1.
319	18	550.0(1.4)	4.8(0.3)	55.5(4.2)	-0.9(0.5)	4.1(0.4)	3.6(4.6)	-40.3(4.7)	-1.8532E 07	9.8202E 07	-5.6285E 05	2.
319	19	545.0(14.6)	6.1(1.3)	85.8(32.3)	-2.3(0.4)	0.7(0.0)	20.5(3.4)	-9.5(0.0)	-1.8733E 07	9.8150E 07	-5.5787E 05	2.
319	20	556.0(0.0)	3.7(0.0)	46.3(0.0)	-2.1(0.0)	-1.7(0.0)	22.4(0.0)	13.9(0.0)	-1.8862E 07	9.8116E 07	-5.5469E 05	1.
320	4	672.0(13.4)	2.9(0.1)	56.0(7.1)	-0.3(1.4)	-0.9(0.4)	4.6(16.5)	9.8(3.4)	-2.0107E 07	9.7786E 07	-5.2380E 05	2.
320	5	627.0(25.4)	3.3(0.8)	62.9(25.5)	-0.1(3.1)	0.0(1.1)	0.6(32.3)	-0.0(15.5)	-2.0234E 07	9.7751E 07	-5.2064E 05	3.
320	6	604.0(5.3)	3.4(0.2)	62.5(15.4)	3.0(2.5)	-0.3(0.8)	-30.9(27.6)	6.7(5.7)	-2.0387E 07	9.7710E 07	-5.1684E 05	3.
320	7	593.0(0.0)	3.8(0.0)	82.3(0.0)	0.2(0.0)	2.3(0.0)	-4.5(0.0)	-23.1(0.0)	-2.0490E 07	9.7682E 07	-5.1428E 05	1.
320	9	578.0(25.2)	2.8(0.6)	55.5(6.4)	-0.7(0.2)	0.4(2.7)	6.8(5.8)	-4.0(26.6)	-2.0771E 07	9.7606E 07	-5.0729E 05	2.
320	10	615.0(0.0)	3.8(0.0)	82.3(0.0)	2.5(0.0)	0.3(0.0)	-26.8(0.0)	-0.1(0.0)	-2.1003E 07	9.7543E 07	-5.0154E 05	1.
320	11	627.0(22.5)	3.1(0.5)	67.2(14.6)	0.5(1.3)	-0.6(1.6)	-5.2(12.6)	7.2(18.5)	-2.1105E 07	9.7515E 07	-4.9900E 05	3.
320	12	607.0(9.6)	4.0(0.8)	89.3(14.8)	1.8(1.1)	1.4(0.7)	-20.5(12.5)	-12.4(5.5)	-2.1231E 07	9.7480E 07	-4.9585E 05	2.
320	13	585.0(2.9)	3.6(0.5)	75.0(23.0)	0.4(1.7)	2.7(0.5)	-7.3(16.5)	-27.0(6.6)	-2.1413E 07	9.7430E 07	-4.9133E 05	3.
320	14	557.0(11.2)	3.9(0.7)	71.2(14.2)	0.4(0.7)	2.2(0.9)	-6.4(7.8)	-20.6(8.6)	-2.1566E 07	9.7387E 07	-4.8751E 05	3.
320	15	562.0(3.3)	3.4(0.5)	69.4(12.9)	0.3(0.7)	0.8(0.5)	-3.6(7.0)	-7.9(5.0)	-2.1721E 07	9.7344E 07	-4.8366E 05	3.
320	16	553.0(9.5)	3.1(0.4)	71.9(10.8)	0.6(0.7)	1.0(0.4)	-6.8(7.4)	-8.6(3.4)	-2.1856E 07	9.7301E 07	-4.8024E 05	3.
320	17	540.0(17.3)	3.8(0.5)	75.4(10.4)	0.1(0.5)	1.3(0.8)	-2.5(3.7)	-12.3(7.7)	-2.1985E 07	9.7257E 07	-4.7694E 05	3.
320	18	533.0(9.0)	4.3(0.0)	71.2(10.7)	-1.6(0.4)	-0.1(0.0)	14.5(4.0)	-0.7(0.1)	-2.2133E 07	9.7206E 07	-4.7317E 05	2.
320	19	525.0(10.5)	3.9(0.8)	55.3(13.0)	-1.5(0.6)	0.2(0.2)	13.5(6.0)	-3.6(1.6)	-2.2241E 07	9.7159E 07	-4.7041E 05	3.
320	20	524.0(0.8)	3.1(0.5)	52.5(0.6)	-1.2(1.4)	0.8(0.2)	10.3(12.6)	-8.8(0.2)	-2.2347E 07	9.7132E 07	-4.6770E 05	2.
321	4	415.0(1.4)	4.5(0.2)	46.8(9.8)	-2.0(0.5)	1.4(0.1)	13.5(3.6)	-11.8(1.3)	-2.3408E 07	9.6758E 07	-4.4049E 05	2.
321	5	419.0(6.5)	4.9(1.3)	49.7(20.6)	-1.5(0.4)	1.2(0.6)	9.9(2.8)	-9.8(4.6)	-2.3514E 07	9.6719E 07	-4.3775E 05	3.
321	6	418.0(4.4)	4.1(0.3)	35.3(2.2)	-2.6(0.4)	-0.6(0.8)	19.5(3.3)	2.2(5.6)	-2.3640E 07	9.6674E 07	-4.3451E 05	3.
321	7	411.0(4.3)	8.0(1.8)	32.7(10.4)	-2.4(0.1)	2.3(0.7)	15.5(1.3)	-17.9(5.2)	-2.3768E 07	9.6627E 07	-4.3123E 05	3.
321	8	407.0(9.0)	11.2(2.6)	41.6(22.2)	-1.6(1.1)	0.3(1.1)	11.1(8.2)	-3.2(7.8)	-2.3895E 07	9.6581E 07	-4.2796E 05	3.
321	9	411.0(2.1)	12.7(1.7)	25.8(3.0)	-2.4(0.1)	-0.0(0.8)	17.0(1.0)	-1.8(5.9)	-2.4021E 07	9.6535E 07	-4.2471E 05	3.
321	10	404.0(5.5)	16.6(1.1)	31.5(1.6)	-1.9(0.2)	-0.1(0.3)	13.5(1.9)	-1.1(1.8)	-2.4147E 07	9.6488E 07	-4.2144E 05	3.
321	11	395.0(1.5)	19.9(1.0)	37.0(3.5)	-2.1(0.3)	-0.1(0.9)	14.7(2.4)	-0.8(5.7)	-2.4274E 07	9.6441E 07	-4.1818E 05	3.
321	12	388.0(3.6)	21.2(2.0)	36.7(2.4)	-2.6(0.0)	-0.9(0.5)	17.8(0.2)	4.4(3.6)	-2.4379E 07	9.6402E 07	-4.1547E 05	2.
322	4	361.0(0.0)	12.9(0.0)	34.8(0.0)	-2.8(0.0)	-2.1(0.0)	18.9(0.0)	11.0(0.0)	-2.6409E 07	9.5620E 07	-3.6276E 05	1.
322	5	364.0(2.7)	13.5(1.6)	42.9(2.7)	-1.8(1.0)	-3.0(0.7)	13.4(5.7)	17.3(5.1)	-2.6492E 07	9.5587E 07	-3.6060E 05	3.
322	6	359.0(1.8)	12.8(0.2)	39.6(4.8)	-1.8(1.5)	-2.7(0.8)	13.1(8.9)	15.6(5.8)	-2.6617E 07	9.5537E 07	-3.5734E 05	3.
322	7	359.0(5.0)	13.4(1.8)	54.3(1.2)	-0.9(1.3)	-1.6(1.3)	6.4(8.3)	9.1(7.6)	-2.6741E 07	9.5487E 07	-3.5409E 05	3.
322	8	334.0(21.0)	10.1(1.8)	36.9(1.4)	-2.4(2.3)	-2.7(0.8)	16.2(14.3)	14.0(4.6)	-2.6866E 07	9.5437E 07	-3.5083E 05	3.
322	9	346.0(11.1)	9.1(1.2)	38.7(8.4)	-5.1(0.7)	-4.3(1.2)	33.5(6.0)	22.3(7.2)	-2.6990E 07	9.5386E 07	-3.4758E 05	3.
322	10	328.0(18.0)	7.8(2.7)	36.3(16.9)	-8.2(2.4)	-2.4(3.0)	47.7(9.1)	8.8(18.4)	-2.7114E 07	9.5336E 07	-3.4432E 05	3.
322	11	327.0(13.5)	8.7(1.6)	45.2(24.3)	-6.8(1.9)	-2.8(4.6)	40.3(12.8)	12.0(25.0)	-2.7239E 07	9.5284E 07	-3.4105E 05	3.
322	12	331.0(13.6)	8.0(1.3)	39.1(11.5)	-5.9(0.2)	-2.0(3.9)	34.9(2.1)	7.2(22.1)	-2.7341E 07	9.5243E 07	-3.3837E 05	2.
322	20	338.0(0.0)	7.2(0.0)	35.1(0.0)	-9.2(0.0)	3.4(0.0)	51.5(0.0)	-25.6(0.0)	-2.8393E 07	9.4803E 07	-3.1072E 05	1.
322	21	340.0(9.3)	8.7(0.3)	33.3(8.7)	-6.1(0.0)	6.6(0.3)	31.6(0.5)	-42.5(3.0)	-2.8497E 07	9.4759E 07	-3.0799E 05	2.
322	22	322.0(6.6)	8.3(0.6)	34.7(4.5)	-7.1(0.7)	1.7(3.4)	38.4(3.7)	-13.8(19.5)	-2.8599E 07	9.4715E 07	-3.0530E 05	3.

MARINER 5 ONE HOUR AVERAGES

7/26/72

1967 D	H	V	N	WO	EW	NS	VT	VN	XSE	YSE	ZSE	ENTRIES
322	23	323.0(0.8)	9.0(1.3)	33.9(5.5)	-5.7(1.6)	-1.7(1.8)	32.9(8.7)	6.0(10.8)	-2.8724E 07	9.4662E 07	-3.0201E 05	3.
323	0	338.0(5.8)	11.1(0.6)	36.0(4.3)	-3.2(1.8)	-2.3(0.4)	19.9(10.4)	11.5(2.9)	-2.8846E 07	9.4609E 07	-2.9878E 05	3.
323	1	338.0(10.9)	11.1(0.2)	29.8(1.8)	-2.9(2.5)	-2.8(0.8)	18.2(13.6)	14.4(6.3)	-2.8969E 07	9.4556E 07	-2.9551E 05	3.
323	2	327.0(9.3)	13.1(2.5)	46.5(10.9)	-6.7(1.1)	-2.8(1.5)	39.5(4.7)	12.0(9.0)	-2.9092E 07	9.4503E 07	-2.9228E 05	3.
323	3	334.0(8.7)	9.7(1.0)	35.6(9.5)	-6.1(0.7)	1.1(2.1)	34.6(4.3)	-10.5(12.5)	-2.9215E 07	9.4449E 07	-2.8902E 05	3.
323	4	320.0(15.6)	11.7(0.8)	43.8(1.0)	-7.0(1.4)	3.9(0.4)	36.5(9.6)	-25.7(3.9)	-2.9337E 07	9.4396E 07	-2.8579E 05	3.
323	5	301.0(7.1)	8.5(0.1)	32.0(0.9)	-3.8(4.4)	0.8(1.6)	19.4(22.2)	-6.6(10.9)	-2.9460E 07	9.4342E 07	-2.8253E 05	3.
323	6	296.0(6.7)	9.5(2.0)	38.4(3.8)	-3.7(2.7)	0.1(4.5)	19.1(16.7)	-2.3(21.6)	-2.9602E 07	9.4279E 07	-2.7877E 05	2.
323	7	330.0(0.4)	9.5(1.1)	35.4(6.5)	-7.0(0.9)	-0.3(0.1)	39.7(5.1)	-2.3(0.2)	-2.9725E 07	9.4224E 07	-2.7548E 05	2.
323	8	352.0(8.9)	12.4(2.0)	45.4(10.2)	1.8(0.7)	-3.2(1.2)	-8.8(3.5)	20.6(8.0)	-2.9827E 07	9.4179E 07	-2.7279E 05	3.
323	9	334.0(23.2)	10.4(1.8)	40.6(4.9)	2.6(0.3)	-1.6(1.4)	-13.8(1.7)	11.3(8.7)	-2.9949E 07	9.4125E 07	-2.6954E 05	3.
323	10	336.0(12.2)	10.8(1.0)	38.4(3.6)	-1.4(1.5)	4.8(1.0)	5.3(8.0)	-28.5(6.3)	-3.0071E 07	9.4070E 07	-2.6630E 05	3.
323	11	316.0(7.8)	13.6(2.1)	54.4(14.2)	-4.0(1.4)	4.3(1.2)	19.4(8.5)	-25.5(5.2)	-3.0194E 07	9.4015E 07	-2.6303E 05	3.
323	12	305.0(13.2)	11.4(0.6)	42.3(2.2)	-2.6(2.4)	3.0(1.2)	11.9(13.1)	-17.5(5.8)	-3.0315E 07	9.3960E 07	-2.5980E 05	3.
323	13	288.0(0.0)	11.5(0.0)	40.1(0.0)	-1.7(0.0)	1.3(0.0)	7.6(0.0)	-7.4(0.0)	-3.0396E 07	9.3924E 07	-2.5765E 05	1.
323	18	286.0(0.0)	9.9(0.0)	32.5(0.0)	2.8(0.0)	-1.9(0.0)	-12.7(0.0)	10.6(0.0)	-3.1049E 07	9.3625E 07	-2.4022E 05	1.
325	0	295.0(0.0)	16.7(0.0)	36.0(0.0)	-1.9(0.0)	-1.1(0.0)	10.0(0.0)	4.4(0.0)	-3.4632E 07	9.1873E 07	-1.4346E 05	1.
325	1	292.0(0.9)	15.6(0.2)	34.3(1.5)	-1.0(0.3)	-1.6(0.5)	5.9(1.1)	7.5(2.8)	-3.4710E 07	9.1833E 07	-1.4134E 05	3.
325	2	286.0(0.0)	13.3(0.0)	29.3(0.0)	-1.9(0.0)	-1.4(0.0)	10.1(0.0)	5.7(0.0)	-3.4789E 07	9.1792E 07	-1.3920E 05	1.
325	3	284.0(4.4)	14.7(0.6)	24.4(0.6)	-3.6(0.8)	-3.2(0.9)	19.3(3.2)	13.7(5.0)	-3.4928E 07	9.1720E 07	-1.3541E 05	2.
325	4	281.0(6.4)	15.4(0.8)	26.5(0.7)	-3.9(0.6)	-2.2(1.4)	19.9(4.3)	8.6(6.8)	-3.5045E 07	9.1659E 07	-1.3219E 05	2.
325	15	265.0(0.0)	24.8(0.0)	22.5(0.0)	-4.3(0.0)	-4.1(0.0)	21.2(0.0)	16.6(0.0)	-3.6400E 07	9.0937E 07	-9.5005E 04	1.
325	16	275.0(6.9)	26.4(3.0)	24.1(0.9)	-2.6(0.1)	-3.5(2.6)	13.8(0.2)	15.0(11.9)	-3.6459E 07	9.0905E 07	-9.3399E 04	2.
325	17	272.0(1.2)	33.4(5.2)	22.9(1.6)	-3.7(0.4)	-4.9(0.5)	19.5(1.6)	21.3(2.6)	-3.6596E 07	9.0830E 07	-8.9597E 04	3.
325	18	276.0(0.6)	32.9(2.6)	27.8(0.8)	-2.0(1.0)	-2.6(0.6)	10.9(4.7)	11.5(3.1)	-3.6712E 07	9.0767E 07	-8.6406E 04	3.
325	19	273.0(0.0)	29.3(0.0)	31.9(0.0)	-3.7(0.0)	-3.4(0.0)	19.1(0.0)	14.2(0.0)	-3.6792E 07	9.0723E 07	-8.4210E 04	1.

END OF FILE MARK READ ON TAPE