IMP-J

15-SECONDS AVERAGE MAGNETIC VRS, ASCII

73-078A-01M

This data set consists of one tape. The tape is a 4000 series DLT tape. This data set was created on the MRB Mini-VAX, and was downloaded from NDADA. The data is written in ASCII format. The D and C tape along with the time span are as follows:

D#	C#	FILE	TIME SPAN
DD 109020	DC 033019	~~300~~ 318	10/30/73 - ~~09/30/98~~ -04/30/00

Subject: Data Format Description for the IMP-J MAG15_ASCII Datatype in NDADS
From: J. H. King
Organization: National Space Science Data Center

Entered as B46482 in NSSDC's Technical Reference File, January 12, 1998.

MAG15_ASCII Format and Footnotes
Data Format for Tri-Axis Magnetometer 15.36 Second Magnetic Field Vectors

Logical record size = 134 bytes

ITEM	Description	(Type)	(Size)	Units	Notes
1*	Year	I3			Last two digits only
2*	Day-of-year	I4		days	January 1 = 1
3*	Seconds of day	I6		sec	Elapsed seconds of day
4	Number of sequences	I3			used for statistics
5	Number of detail pts	I4			
6	X Geocentric SE pos. of spacecraft	F6.1		Earth radii	
7	Y Geocentric SE pos. of spacecraft	F6.1		Earth radii	
8	Z geocentric SE pos. of spacecraft	F6.1		Earth radii	
9	Y Solar Magnetospheric position of spacecraft	F6.1		Earth radii	
10	Z Solar Magnetospheric position of spacecraft	F6.1		Earth radii	
11	Field Magnitude (F1) (Averaged over 15.36 seconds)	F7.2		nT	F1 = 1/n sum[F_i] for i=1,N where F_i is computed over 1.28 seconds
12	B_X_SE Avgd. over 15.36 seconds	F7.2		nT	B_X_SE is the same as B_X_SM.
13	B_Y_SE Avgd. over 15.36 seconds	F7.2		nT	
14	B_Z_SE Avgd. over 15.36 seconds	F7.2		nT	
15	B_Y_SM Avgd. over 15.36 seconds	F7.2		nT	
16	B_Z_SM Avgd. over 15.36 seconds	F7.2		nT	
17	SQRT(Variance XX GSE)	F7.2		nT	
18	SQRT(Variance YY GSE)	F7.2		nT	
19	SQRT(Variance ZZ GSE)	F7.2		nT	
20	SQRT(Variance YX GSE)	F7.2		nT	
21	SQRT(Variance ZX GSE)	F7.2		nT	
22	SQRT(Variance ZY GSE)	F7.2		nT	

* Items 1 - 3 are for the last sequence included in the 15.36 second statistical computation.

Short Name: 15-s avgd magnetic vrs, ASCII
Full Name: 15-s averaged magnetic vectors, ASCII, made at NSSDC from -01A

BD:

This data set was created at NSSDC by converting the PI-provided 15.36-sec binary data set (73-078A-01A) to ASCII and simultaneously rejecting many little-used data words. The parameters chosen for inclusion in this data set, called MAG15_ASCII in NDADS interfaces, are: time, spacecraft position (GSE and GSM), field magnitude, field cartesian components (GSE and GSM), and the variances and covariances of the GSE field component averages. Unlike its source -01A data set, this data set uses a common January 1 = day 1 convention throughout. This data set is accessible from NDADS via the SPyCAT interface at http://nssdc.gsfc.nasa.gov/space/ndads/spycat.html.

ASCII LIST OF IMPJASC

FILE 1 RECORD 1 13400 BYTES

73 303 54033 12 384 20.6 12.4 9.3 15.0 3.7 3.41 -3.35 -0.22 0.47 -0.02 0.52 0.39 0.33 0.31 0.31 0.00 0.
00 73 303 54048 12 384 20.6 12.4 9.3 15.1 3.7 3.48 -3.24 -0.92 0.49 -0.66 0.81 0.11 0.44 0.65 0.12 0.17
0.23 73 303 54063 12 384 20.6 12.4 9.3 15.1 3.7 3.51 -3.40 -0.46 -0.58 -0.66 -0.36 0.30 0.36 0.30 0.00 0.00
0.21 73 303 54079 12 384 20.6 12.4 9.3 15.1 3.7 3.49 -3.43 0.08 0.39 0.23 0.33 0.45 0.17 0.52 0.20 0.0
0 0.00 73 303 54094 12 384 20.6 12.4 9.3 15.1 3.7 3.66 -3.33 -1.03 -0.17 -1.02 0.25 0.28 0.57 0.96 0.00 0
.38 0.00 73 303 54109 12 384 20.6 12.4 9.3 15.1 3.7 3.47 -3.12 -0.02 0.82 0.30 0.76 0.28 0.98 0.86 0.00
0.46 0.00 73 303 54125 12 384 20.6 12.4 9.3 15.1 3.8 3.76 -3.62 -0.31 0.80 0.02 0.86 0.15 0.50 0.30 0.00
0.09 0.00 73 303 54140 12 384 20.6 12.4 9.3 15.1 3.8 3.56 -3.21 -0.54 1.41 0.05 1.51 0.14 0.20 0.24 0.
15 0.00 0.13 73 303 54155 12 384 20.6 12.4 9.3 15.1 3.8 3.90 -3.40 0.11 1.84 0.82 1.65 0.19 0.35 0.39
0.00 0.17 0.00 73 303 54166 8 256 20.6 12.4 9.3 15.1 3.8 3.72 -3.58 -0.39 0.83 -0.04 0.91 0.10 0.45 0.17
0.00 0.03 0.00 73 303 54186 12 384 20.6 12.4 9.3 15.1 3.8 4.04 -3.71 -0.53 1.50 0.10 1.59 0.15 0.10 0.2
4 0.04 0.00 0.06 73 303 54201 12 384 20.6 12.4 9.3 15.1 3.8 4.05 -3.78 -0.58 1.28 -0.04 1.41 0.09 0.26 0
.30 0.12 0.00 0.00 73 303 54217 12 384 20.6 12.4 9.4 15.1 3.8 4.27 -3.72 -1.20 1.68 -0.45 2.01 0.10 0.34
0.23 0.00 0.00 0.21 73 303 54232 12 384 20.6 12.4 9.4 15.1 3.8 4.47 -3.78 -1.31 1.96 -0.45 2.32 0.14 0.25
0.15 0.00 0.11 0.00 73 303 54247 12 384 20.6 12.4 9.4 15.1 3.8 4.20 -3.44 -1.07 2.12 -0.15 2.37 0.19 0.
26 0.22 0.05 0.10 0.19 73 303 54263 12 384 20.6 12.4 9.4 15.1 3.8 3.97 -3.35 -0.57 1.92 0.22 1.99 0.14
0.63 0.38 0.00 0.19 0.00 73 303 54278 12 384 20.6 12.4 9.4 15.1 3.8 3.83 -3.39 -0.61 1.56 0.05 1.68 0.22
0.45 0.37 0.00 0.26 0.00 73 303 54293 12 384 20.6 12.4 9.4 15.1 3.8 3.71 -3.67 0.17 0.18 0.22 0.10 0.1
0 0.39 0.42 0.00 0.00 0.26 73 303 54309 12 384 20.6 12.4 9.4 15.1 3.8 3.77 -3.75 0.09 0.14 0.14 0.10 0
.12 0.22 0.37 0.09 0.00 0.12 73 303 54324 12 384 20.6 12.4 9.4 15.1 3.8 3.69 -3.60 0.44 -0.39 0.26 -0.53
0.23 0.37 0.45 0.25 0.00 0.00 73 303 54340 12 384 20.6 12.4 9.4 15.1 3.8 3.65 -3.50 0.66 0.49 0.80 0.20
0.18 0.45 0.54 0.23 0.00 0.00 73 303 54355 12 384 20.6 12.4 9.4 15.1 3.8 3.30 -3.10 0.72 0.79 0.97 0.
45 0.07 0.30 0.28 0.06 0.08 0.18 73 303 54370 12 384 20.5 12.4 9.4 15.1 3.8 3.18 -2.96 0.05 0.76 0.34
0.68 0.16 0.68 0.60 0.00 0.20 0.00 73 303 54386 12 384 20.5 12.4 9.4 15.1 3.8 3.21 -2.98 -0.20 1.03 0.22
1.03 0.19 0.54 0.20 0.00 0.11 0.00 73 303 54401 12 384 20.5 12.4 9.4 15.1 3.8 3.57 -3.30 -0.29 1.25 0.2
2 1.27 0.07 0.36 0.28 0.11 0.10 0.06 73 303 54416 12 384 20.5 12.4 9.4 15.1 3.8 3.61 -3.19 -0.52 1.44 0
.08 1.53 0.27 0.63 0.34 0.00 0.26 0.00 73 303 54432 12 384 20.5 12.4 9.4 15.1 3.8 3.72 -3.54 -0.11 1.12
0.34 1.07 0.08 0.21 0.11 0.00 0.00 0.08 73 303 54447 12 384 20.5 12.4 9.4 15.1 3.8 3.75 -3.62 0.01 0.92
0.36 0.84 0.09 0.24 0.11 0.10 0.04 0.07 73 303 54462 12 384 20.5 12.4 9.4 15.1 3.8 3.89 -3.72 -0.40 0.
93 -0.01 1.01 0.11 0.26 0.43 0.00 0.17 0.00 73 303 54478 12 384 20.5 12.4 9.4 15.1 3.8 3.85 -3.73 -0.10
0.83 0.22 0.80 0.12 0.21 0.46 0.00 0.14 0.13 73 303 54493 12 384 20.5 12.4 9.4 15.1 3.8 3.96 -3.81 -0.19
0.95 0.19 0.94 0.13 0.36 0.37 0.00 0.00 0.04 73 303 54508 12 384 20.5 12.4 9.4 15.1 3.8 4.28 -3.64 -0.0
1 2.22 0.85 2.05 0.12 0.36 0.24 0.14 0.00 0.00 73 303 54524 12 384 20.5 12.4 9.4 15.1 3.8 4.51 -3.25 -0
.29 3.10 0.93 2.97 0.15 0.22 0.16 0.11 0.11 0.11 73 303 54539 12 384 20.5 12.5 9.4 15.1 3.9 4.40 -3.84
0.55 1.87 1.23 1.51 0.38 0.09 0.87 0.00 0.53 0.12 73 303 54554 12 384 20.5 12.5 9.4 15.1 3.9 4.36 -4.28
0.60 0.46 0.73 0.19 0.21 0.26 0.27 0.08 0.00 0.00 73 303 54570 12 384 20.5 12.5 9.4 15.1 3.9 4.24 -4.
20 0.51 0.03 0.48 -0.17 0.10 0.24 0.24 0.00 0.13 0.00 73 303 54580 8 256 20.5 12.5 9.4 15.1 3.9 4.17 -
4.07 0.21 0.88 0.53 0.73 0.05 0.13 0.23 0.00 0.04 0.16 73 303 54600 12 384 20.5 12.5 9.4 15.1 3.9 3.99

-3.96 0.28 -0.27 0.16 -0.36 0.13 0.17 0.30 0.00 0.00 0.20 73 303 54616 12 384 20.5 12.5 9.4 15.1 3.9 4.8
8 -4.00 -0.04 1.42 0.51 1.32 1.47 1.68 1.96 1.43 0.00 0.00 73 303 54631 12 384 20.5 12.5 9.4 15.1 3.9 3
.87 -3.81 0.17 -0.58 -0.06 -0.60 0.11 0.14 0.18 0.00 0.00 0.16 73 303 54646 12 384 20.5 12.5 9.4 15.1 3.9
3.85 -3.79 0.45 -0.44 0.24 -0.58 0.14 0.25 0.21 0.00 0.00 0.19 73 303 54662 12 384 20.5 12.5 9.4 15.1 3.9
4.02 -3.93 0.69 -0.09 0.60 -0.34 0.15 0.31 0.31 0.17 0.12 0.28 73 303 54677 12 384 20.5 12.5 9.4 15.1 3
.9 4.14 -3.94 0.79 0.72 1.01 0.36 0.14 0.42 0.55 0.21 0.18 0.46 73 303 54692 12 384 20.5 12.5 9.4 15.1
3.9 3.94 -3.58 1.57 -0.21 1.36 -0.80 0.13 0.46 0.23 0.16 0.00 0.28 73 303 54708 12 384 20.5 12.5 9.4 15.1
3.9 3.94 -3.87 0.31 -0.55 0.08 -0.63 0.18 0.19 0.25 0.00 0.00 0.12 73 303 54723 12 384 20.5 12.5 9.4 15
.1 3.9 3.88 -3.77 0.75 -0.40 0.54 -0.66 0.25 0.16 0.19 0.19 0.00 0.00 73 303 54734 9 288 20.4 12.5 9.5
15.2 4.0 3.42 -2.97 1.33 -0.98 0.86 -1.41 0.12 0.25 0.32 0.12 0.00 0.15 73 303 55030 11 352 20.4 12.5 9.5
15.2 4.0 20.72 0.04 0.43 -3.82 -1.05 -3.70 14.71 15.54 0.23 0.00 0.56 0.00 73 303 55045 12 384 20.4 12.5 9
.5 15.2 4.0 17.06 -2.15 2.03 -3.89 0.40 -4.37 18.32 3.88 0.13 0.00 0.00 0.23 73 303 55060 12 384 20.4 12.5
9.5 15.2 4.0 3.76 -0.72 1.69 -3.22 0.35 -3.62 0.66 0.16 0.27 0.00 0.31 0.07 73 303 55076 12 384 20.4 12.5
9.5 15.2 4.0 3.77 -1.16 1.62 -3.17 0.29 -3.55 0.37 0.35 0.11 0.32 0.10 0.00 73 303 55091 12 384 20.4 12
.5 9.5 15.2 4.0 3.65 -1.00 1.64 -3.06 0.36 -3.46 0.25 0.49 0.14 0.00 0.00 0.00 73 303 55106 12 384 20.4
12.5 9.5 15.2 4.0 3.69 -0.80 1.40 -3.30 0.05 -3.59 0.17 0.22 0.20 0.00 0.05 0.04 73 303 55122 12 384 20.4
12.5 9.5 15.2 4.0 3.75 -1.19 1.50 -3.23 0.17 -3.55 0.19 0.11 0.14 0.06 0.10 0.00 73 303 55137 12 384 20
.4 12.5 9.5 15.2 4.0 3.67 -1.10 1.55 -3.13 0.25 -3.48 0.24 0.18 0.11 0.00 0.02 0.00 73 303 55152 12 384
20.4 12.5 9.5 15.2 4.0 3.27 -0.66 1.29 -2.90 0.10 -3.17 0.37 0.24 0.24 0.00 0.00 0.14 73 303 55168 12 384
20.4 12.5 9.5 15.2 4.0 3.32 -0.44 1.32 -3.00 0.09 -3.27 0.22 0.11 0.23 0.00 0.00 0.11 73 303 55183 12 3
84 20.4 12.5 9.5 15.2 4.0 3.41 -0.80 1.45 -2.98 0.21 -3.30 0.17 0.11 0.19 0.11 0.00 0.00 73 303 55199 12
384 20.4 12.5 9.5 15.2 4.1 3.66 -0.89 1.44 -3.24 0.12 -3.54 0.14 0.12 0.11 0.07 0.00 0.00 73 303 55214
12 384 20.4 12.5 9.5 15.2 4.1 3.54 -0.77 1.58 -3.06 0.31 -3.44 0.15 0.16 0.12 0.08 0.00 0.05 73 303 5522
9 12 384 20.4 12.5 9.5 15.2 4.1 3.43 -0.85 1.49 -2.95 0.27 -3.30 0.12 0.32 0.09 0.00 0.07 0.14 73 303 55
245 12 384 20.4 12.5 9.5 15.2 4.1 3.11 -0.78 1.02 -2.81 -0.11 -2.99 0.25 0.22 0.18 0.00 0.00 0.18 73 303
55260 12 384 20.4 12.5 9.5 15.2 4.1 3.59 -0.95 1.86 -2.90 0.63 -3.39 0.21 0.35 0.29 0.00 0.00 0.00 73 30
3 55275 12 384 20.4 12.5 9.5 15.2 4.1 4.05 -1.12 1.98 -3.35 0.57 -3.85 0.21 0.14 0.07 0.13 0.02 0.00 73
303 55291 12 384 20.4 12.5 9.5 15.2 4.1 4.20 -0.79 2.02 -3.59 0.52 -4.09 0.14 0.21 0.12 0.00 0.11 0.04 7
3 303 55306 12 384 20.4 12.5 9.5 15.2 4.1 3.55 -0.54 1.58 -3.12 0.30 -3.49 0.16 0.19 0.18 0.00 0.07 0.00
73 303 55321 12 384 20.4 12.5 9.5 15.2 4.1 3.32 -0.52 1.52 -2.89 0.32 -3.25 0.28 0.16 0.08 0.00 0.00 0.
09 73 303 55337 12 384 20.4 12.5 9.5 15.2 4.1 3.42 0.24 1.27 -3.15 -0.01 -3.39 0.25 0.20 0.10 0.00 0.00
0.11 73 303 55352 12 384 20.3 12.5 9.5 15.2 4.1 3.56 -0.31 1.40 -3.25 0.08 -3.54 0.08 0.22 0.13 0.00 0.04
0.11 73 303 55367 12 384 20.3 12.5 9.5 15.2 4.1 3.73 -0.77 1.51 -3.30 0.16 -3.63 0.34 0.22 0.09 0.00 0.0
0 0.08 73 303 55383 12 384 20.3 12.5 9.5 15.2 4.1 3.45 -1.54 1.43 -2.47 0.40 -2.83 0.77 0.17 0.96 0.14 0
.00 0.12 73 303 55398 12 384 20.3 12.5 9.5 15.2 4.1 3.60 -2.92 0.71 1.86 1.36 1.45 0.15 0.21 0.71 0.12
0.00 0.00 73 303 55413 12 384 20.3 12.5 9.5 15.2 4.1 3.83 -3.16 1.04 1.86 1.67 1.34 0.17 0.23 0.31 0.00
0.20 0.00 73 303 55429 12 384 20.3 12.5 9.5 15.2 4.1 4.05 -3.62 1.40 1.07 1.70 0.47 0.20 0.22 0.35 0.
00 0.09 0.00 73 303 55444 12 384 20.3 12.6 9.5 15.2 4.1 4.01 -3.35 1.07 1.85 1.68 1.32 0.20 0.26 0.47
0.15 0.21 0.00 73 303 55459 12 384 20.3 12.6 9.5 15.2 4.1 4.73 -4.34 1.07 1.48 1.55 0.97 0.52 0.30 0.31
0.29 0.02 0.14 73 303 55475 12 384 20.3 12.6 9.5 15.2 4.1 5.09 -3.88 0.80 3.16 1.92 2.63 0.27 0.29 0.4
5 0.14 0.31 0.18 73 303 55490 12 384 20.3 12.6 9.5 15.2 4.1 4.92 -4.24 0.99 2.26 1.76 1.73 0.25 0.22 0
.40 0.00 0.21 0.00 73 303 55505 12 384 20.3 12.6 9.5 15.2 4.1 4.80 -4.29 1.02 1.84 1.63 1.33 0.16 0.34
0.35 0.20 0.00 0.00 73 303 55521 12 384 20.3 12.6 9.5 15.2 4.2 4.85 -4.35 0.62 2.03 1.33 1.66 0.08 0.27
0.16 0.10 0.04 0.00 73 303 55536 12 384 20.3 12.6 9.5 15.2 4.2 4.77 -4.47 1.22 0.79 1.43 0.28 0.08 0.

29 0.80 0.00 0.08 0.00 73 303 55551 12 384 20.3 12.6 9.5 15.2 4.2 4.59 -4.19 1.71 -0.58 1.37 -1.18 0.26
0.18 0.49 0.17 0.00 0.00 73 303 55567 12 384 20.3 12.6 9.5 15.2 4.2 4.53 -4.26 1.35 -0.17 1.19 -0.66 0.18
0.35 0.67 0.23 0.00 0.00 73 303 55582 12 384 20.3 12.6 9.5 15.2 4.2 4.58 -4.38 1.27 0.36 1.32 -0.14 0.0
9 0.21 0.21 0.10 0.07 0.00 73 303 55597 12 384 20.3 12.6 9.5 15.2 4.2 4.56 -4.29 1.53 0.05 1.44 -0.52 0
.12 0.20 0.20 0.05 0.00 0.04 73 303 55613 12 384 20.3 12.6 9.5 15.2 4.2 4.54 -4.43 0.94 0.30 0.98 -0.07
0.15 0.16 0.16 0.07 0.00 0.00 73 303 55628 12 384 20.3 12.6 9.5 15.2 4.2 4.57 -4.33 0.52 1.31 0.97 1.02
0.12 0.16 0.39 0.12 0.16 0.10 73 303 55643 12 384 20.3 12.6 9.5 15.2 4.2 4.60 -4.37 0.52 1.32 0.97 1.
04 0.05 0.28 0.12 0.07 0.05 0.00 73 303 55659 12 384 20.3 12.6 9.5 15.2 4.2 4.54 -4.30 0.47 1.34 0.94
1.07 0.12 0.27 0.19 0.08 0.10 0.11 73 303 55674 12 384 20.3 12.6 9.5 15.2 4.2 4.55 -4.40 0.24 1.14 0.65
0.97 0.10 0.13 0.07 0.06 0.00 0.07 73 303 55689 12 384 20.3 12.6 9.5 15.2 4.2 4.56 -4.40 0.24 1.15 0.6
5 0.98 0.09 0.19 0.12 0.08 0.07 0.14 73 303 55705 12 384 20.3 12.6 9.5 15.2 4.2 4.55 -4.46 0.27 0.82 0
.56 0.66 0.06 0.29 0.19 0.10 0.05 0.16 73 303 55720 12 384 20.3 12.6 9.5 15.2 4.2 4.48 -4.42 0.04 0.67
0.29 0.61 0.10 0.17 0.11 0.00 0.00 0.10 73 303 55735 12 384 20.3 12.6 9.5 15.2 4.2 4.41 -4.34 -0.69 0.20
-0.57 0.44 0.06 0.28 0.16 0.00 0.00 0.18 73 303 55751 12 384 20.3 12.6 9.5 15.2 4.2 4.37 -4.28 -0.85 -0.
03 -0.81 0.28 0.08 0.15 0.29 0.00 0.00 0.17 73 303 55766 12 384 20.3 12.6 9.6 15.2 4.2 4.40 -4.28 -1.02 -
0.00 -0.95 0.38 0.06 0.11 0.09 0.00 0.00 0.06 73 303 55781 12 384 20.3 12.6 9.6 15.2 4.2 4.45 -4.33 -0.94
0.32 -0.76 0.65 0.08 0.16 0.18 0.00 0.00 0.12 73 303 55797 12 384 20.3 12.6 9.6 15.2 4.2 4.45 -4.39 -0.6
8 0.16 -0.57 0.40 0.07 0.11 0.21 0.06 0.00 0.00 73 303 55812 12 384 20.3 12.6 9.6 15.2 4.2 4.52 -4.45 -0
.34 0.55 -0.12 0.63 0.05 0.55 0.13 0.00 0.00 0.21 73 303 55827 12 384 20.3 12.6 9.6 15.2 4.2 4.44 -4.38
-0.17 0.66 0.08 0.67 0.05 0.23 0.21 0.00 0.02 0.00

ASCII LIST OF IMPJASC

FILE 1 RECORD 1522 1608 BYTES

73 334 73520 12 384 -21.2 -27.1 -30.0 -26.3 -30.7 4.87 0.64 4.51 -1.72 4.55 -1.59 0.10 0.05 0.07 0.00 0.00 0.
02 73 334 73535 12 384 -21.2 -27.1 -30.0 -26.3 -30.7 4.86 0.75 4.50 -1.68 4.54 -1.55 0.11 0.06 0.06 0.00 0.00
0.04 73 334 73550 12 384 -21.2 -27.1 -30.0 -26.3 -30.7 4.84 0.67 4.49 -1.66 4.54 -1.54 0.07 0.05 0.10 0.04 0.06
0.00 73 334 73566 12 384 -21.2 -27.1 -30.0 -26.3 -30.7 4.86 0.59 4.53 -1.67 4.57 -1.55 0.09 0.06 0.07 0.00 0.0
0 0.00 73 334 73581 12 384 -21.2 -27.1 -30.0 -26.3 -30.7 4.88 0.65 4.55 -1.64 4.59 -1.52 0.07 0.03 0.07 0.00 0
.00 0.03 73 334 73596 12 384 -21.2 -27.1 -30.0 -26.3 -30.7 4.88 0.53 4.61 -1.51 4.66 -1.38 0.05 0.04 0.07 0.03
0.02 0.04 73 334 73612 10 320 -21.2 -27.1 -30.0 -26.3 -30.7 4.86 0.43 4.59 -1.55 4.63 -1.42 0.04 0.06 0.04 0.04
0.02 0.03 73 334 73626 6 192 -21.2 -27.1 -30.0 -26.3 -30.7 4.89 0.53 4.60 -1.56 4.64 -1.43 0.05 0.05 0.03 0.
00 0.00 0.00 73 334 73639 2 64 -21.2 -27.1 -30.0 -26.3 -30.7 4.89 0.61 4.60 -1.53 4.64 -1.39 0.08 0.02 0.03
0.00 0.05 0.00 73 334 73649 3 96 -21.2 -27.1 -30.0 -26.3 -30.7 4.88 0.69 4.57 -1.57 4.61 -1.44 0.11 0.07 0.08
0.08 0.00 0.00 73 334 73673 5 160 -21.2 -27.1 -30.0 -26.3 -30.7 4.91 0.46 4.63 -1.57 4.67 -1.44 0.03 0.06 0.0
5 0.01 0.03 0.00 73 334 73688 8 256 -21.2 -27.1 -30.0 -26.3 -30.7 4.92 0.36 4.66 -1.52 4.70 -1.38 0.08 0.05 0
.05 0.00 0.04 0.00

0.07 0.26 0.00 0.00 0.07 76 60 85412 12 384 -9.9 26.9 -23.9 35.6 -4.8 6.01 0.09 -5.90 -0.91 -4.39 -4.05 0.34
0.05 0.59 0.07 0.36 0.10 76 60 85427 12 384 -9.9 26.9 -23.9 35.6 -4.8 6.01 0.36 -5.89 -1.11 -4.27 -4.20 0.2
2 0.11 0.33 0.09 0.23 0.16 76 60 85443 7 224 -9.9 26.9 -23.9 35.6 -4.8 5.99 0.47 -5.85 -1.14 -4.22 -4.21 0
.19 0.10 0.13 0.00 0.00 0.00 76 60 85458 12 384 -9.9 26.9 -23.9 35.6 -4.8 5.99 0.65 -5.86 -1.02 -4.30 -4.11
0.17 0.10 0.27 0.08 0.07 0.00 76 60 85473 12 384 -9.9 26.9 -23.9 35.6 -4.8 5.80 0.53 -5.67 -1.00 -4.15 -4.00
0.27 0.14 0.33 0.11 0.00 0.00 76 60 85489 12 384 -9.9 26.9 -23.9 35.6 -4.8 5.79 0.39 -5.70 -0.89 -4.24 -3.
92 0.29 0.07 0.16 0.10 0.00 0.00 76 60 85504 12 384 -9.9 26.9 -23.9 35.6 -4.9 5.84 0.70 -5.73 -0.81 -4.31 -
3.87 0.26 0.05 0.17 0.10 0.00 0.00 76 60 85514 8 256 -9.9 26.9 -23.9 35.6 -4.9 5.84 0.73 -5.71 -0.92 -4.22
-3.95 0.25 0.06 0.27 0.08 0.00 0.00 76 60 85535 12 384 -9.9 26.9 -23.9 35.6 -4.9 5.84 -0.71 -5.59 -1.25 -3.9
4 -4.15 0.80 0.22 0.52 0.00 0.60 0.00 76 60 85550 12 384 -9.9 26.9 -23.9 35.6 -4.9 5.91 -0.66 -5.71 -1.26 -4
.04 -4.23 0.41 0.13 0.22 0.00 0.24 0.00 76 60 85565 12 384 -9.9 26.9 -23.9 35.6 -4.9 5.81 0.67 -5.60 0.27
-4.80 -2.90 0.96 0.32 1.03 0.54 0.98 0.56 76 60 85581 9 288 -9.9 26.9 -23.9 35.6 -4.9 5.70 1.36 -5.34 1.33
-5.17 -1.87 0.44 0.14 0.44 0.22 0.00 0.08 76 60 85596 6 192 -9.9 26.9 -23.9 35.6 -4.9 5.62 1.69 -5.06 1.
78 -5.19 -1.34 0.14 0.14 0.20 0.05 0.09 0.15 76 60 85611 12 384 -9.9 26.9 -23.9 35.6 -4.9 5.65 1.61 -5.25
1.22 -5.04 -1.91 0.25 0.15 0.40 0.19 0.29 0.23 76 60 85627 12 384 -9.9 26.9 -23.9 35.6 -4.9 5.68 1.33 -5.43
0.74 -4.92 -2.41 0.24 0.15 0.69 0.17 0.29 0.29 76 60 85642 12 384 -9.9 26.9 -23.9 35.6 -4.9 5.58 1.64 -5.2
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.45 0.26 -4.67 -2.82 0.29 0.10 0.55 0.15 0.03 0.00 76 60 85669 9 288 -10.0 26.9 -23.9 35.6 -4.9 5.57 2.04
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-5.38 -0.17 -4.37 -3.13 0.59 0.11 0.98 0.19 0.73 0.21 76 60 85703 12 384 -10.0 26.9 -23.9 35.6 -4.9 5.51 0.
18 -5.26 -1.55 -3.50 -4.21 0.39 0.21 0.35 0.00 0.29 0.00 76 60 85719 12 384 -10.0 26.9 -23.9 35.6 -4.9 5.58
1.95 -3.69 1.54 -3.92 -0.77 1.73 1.26 2.81 1.43 2.16 1.86 76 60 85734 10 320 -10.0 26.9 -23.9 35.6 -4.9 5.76
3.31 -2.10 4.18 -4.07 2.31 0.15 0.50 0.14 0.24 0.11 0.25 76 60 85747 8 256 -10.0 26.9 -23.9 35.6 -4.9 5.9
1 3.52 -1.47 4.45 -3.69 2.88 0.23 0.78 0.11 0.40 0.00 0.00 76 60 85765 12 384 -10.0 26.9 -23.9 35.6 -4.9 6
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5.96 3.34 -2.18 4.41 -4.27 2.45 0.30 0.30 0.17 0.24 0.00 0.15 76 60 85811 12 384 -10.0 26.9 -23.9 35.6 -4
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ASCII LIST OF IMPJASC

FILE 30 RECORD 1 13400 BYTES

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ASCII LIST OF IMPJASC

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0.15 0.16 98 32 11029 12 384 25.0 2.1 19.1 -5.3 18.5 8.51 -2.99 -7.68 2.07 -7.89 -0.97 0.52 0.22 0.22 0.00
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0.00 0.00 0.32 98 32 11075 10 320 25.0 2.1 19.1 -5.3 18.5 8.42 -3.34 -7.26 2.59 -7.70 -0.33 0.36 0.30 0.32
0.00 0.00 0.26 98 32 11091 10 320 25.0 2.1 19.1 -5.3 18.5 8.73 -3.03 -7.85 2.21 -8.11 -0.91 0.52 0.43 0.4
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0.37 0.00 0.00 0.18 98 32 11152 10 320 25.0 2.1 19.1 -5.2 18.5 9.01 -3.31 -8.20 1.64 -8.22 -1.55 0.40 0.
16 0.29 0.00 0.26 0.00 98 32 11167 12 384 25.0 2.1 19.1 -5.2 18.5 9.14 -3.15 -8.32 2.02 -8.47 -1.24 0.32
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0.69 0.50 0.17 0.48 0.00 0.32 0.14 98 32 11290 7 224 25.0 2.1 19.1 -5.2 18.5 8.56 -2.79 -7.49 3.03 -8.08
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.42 0.13 0.46 0.11 0.57 0.20 0.46 0.22 98 32 11336 8 256 25.0 2.2 19.1 -5.1 18.6 8.63 -2.71 -7.68 2.77

-8.16 -0.29 0.56 0.18 0.46 0.00 0.46 0.12 98 32 11350 8 256 25.0 2.2 19.1 -5.1 18.6 8.75 -2.94 -7.83 2.49
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96 -7.95 0.01 0.40 0.25 0.16 0.00 0.00 0.19 98 32 11377 4 128 25.0 2.2 19.1 -5.1 18.6 8.51 -3.02 -7.26
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-6.72 2.85 -7.30 0.15 0.17 0.32 0.41 0.00 0.00 0.35 98 32 11468 3 96 25.0 2.2 19.1 -5.1 18.6 8.41 -3.
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3.17 -6.42 3.97 -7.44 1.31 0.60 0.35 0.76 0.33 0.56 0.51 98 32 11505 4 128 25.0 2.2 19.1 -5.1 18.6 8.45
-3.53 -6.88 3.32 -7.62 0.54 0.43 0.35 0.62 0.00 0.46 0.00 98 32 11518 7 224 25.0 2.2 19.1 -5.1 18.6 8.3
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.56 -3.43 -6.84 3.85 -7.78 1.04 0.05 0.13 0.10 0.08 0.00 0.00 98 32 11542 2 64 25.0 2.2 19.1 -5.1 18.6
8.51 -2.99 -7.27 3.26 -7.96 0.34 0.21 0.03 0.40 0.08 0.29 0.11 98 32 11566 5 160 25.0 2.2 19.2 -5.0 18.6
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.6 8.16 -3.22 -6.98 2.73 -7.49 -0.03 0.08 0.09 0.12 0.08 0.00 0.00 98 32 11589 2 64 25.0 2.2 19.2 -5.0
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.2 -5.0 18.6 7.92 -2.53 -7.17 2.18 -7.47 -0.61 0.27 0.03 0.37 0.00 0.32 0.00 98 32 11865 1 32 25.0 2.3
19.2 -4.9 18.7 8.89 -2.40 -7.10 4.78 -8.35 1.87 0.00 0.00 0.00 0.00 0.00 0.00 98 32 11895 1 32 25.0 2.3
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.3 19.2 -4.9 18.7 8.83 -2.06 -8.07 2.92 -8.58 -0.22 0.00 0.00 0.00 0.00 0.00 0.00 98 32 12015 1 32 25.0
2.3 19.2 -4.9 18.7 9.25 -2.77 -7.98 3.77 -8.80 0.61 0.00 0.00 0.00 0.00 0.00 0.00 98 32 12051 1 32 25.0
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2 12870 3 96 24.9 2.5 19.2 -4.4 18.8 9.27 -0.67 -5.81 7.17 -7.96 4.67 0.63 0.15 0.19 0.00 0.00 0.17 98
32 12874 1 32 24.9 2.5 19.2 -4.4 18.8 9.01 -1.81 -5.12 7.19 -7.32 4.93 0.00 0.00 0.00 0.00 0.00 0.00 9
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7.33 -5.98 5.65 0.00 0.00 0.00 0.00 0.00 0.00 98 32 13772 2 64 24.9 2.7 19.2 -3.9 19.0 9.76 -5.71 -2.84
7.34 -5.15 5.96 0.12 0.92 0.41 0.34 0.23 0.61 98 32 13788 2 64 24.9 2.7 19.2 -3.9 19.0 9.92 -6.09 -3.1
9 7.14 -5.41 5.65 0.09 0.19 0.29 0.13 0.17 0.23 98 32 13803 5 160 24.9 2.7 19.2 -3.9 19.0 10.00 -6.22 -3
.35 7.04 -5.52 5.51 0.38 0.40 0.41 0.36 0.38 0.38 98 32 13831 4 128 24.9 2.7 19.2 -3.9 19.0 9.93 -5.97
-3.49 7.12 -5.68 5.54 0.27 0.13 0.22 0.00 0.23 0.00

ASCII LIST OF IMPJASC

FILE 293 RECORD 1323 4422 BYTES

98 59 85347 12 384 -7.6 35.7 -10.5 35.5 11.2 6.42 0.35 -6.40 -0.15 -5.23 -3.69 0.21 0.12 0.33 0.00 0.00 0.
00 98 59 85363 12 384 -7.6 35.7 -10.5 35.5 11.2 6.63 0.09 -6.61 0.25 -5.63 -3.48 0.35 0.12 0.31 0.00 0.00

0.07 98 59 85378 12 384 -7.6 35.7 -10.5 35.5 11.2 6.42 0.23 -6.39 0.00 -5.31 -3.56 0.18 0.10 0.57 0.08 0.10
0.00 98 59 85393 12 384 -7.6 35.7 -10.5 35.5 11.1 6.05 -0.10 -5.10 -2.12 -3.06 -4.60 0.55 1.28 2.16 0.00 0.8
8 0.00 98 59 85409 12 384 -7.6 35.7 -10.5 35.5 11.1 6.34 0.43 -5.65 -2.04 -3.55 -4.84 0.28 0.72 1.98 0.15 0
.00 0.00 98 59 85424 12 384 -7.6 35.7 -10.5 35.5 11.1 7.52 0.70 -6.25 -4.03 -2.94 -6.83 0.23 0.58 0.63 0.00
0.35 0.00 98 59 85439 12 384 -7.6 35.7 -10.5 35.5 11.1 7.66 1.25 -6.38 -4.03 -3.05 -6.90 0.19 0.30 0.37 0.16
0.00 0.00 98 59 85455 12 384 -7.6 35.7 -10.5 35.5 11.1 7.63 1.35 -4.89 -5.54 -0.97 -7.33 0.16 1.16 0.77 0.
00 0.15 0.00 98 59 85470 12 384 -7.7 35.7 -10.6 35.6 11.1 7.85 1.17 -1.68 -7.54 2.80 -7.20 0.35 0.66 0.34
0.46 0.00 0.00 98 59 85485 12 384 -7.7 35.7 -10.6 35.6 11.1 7.87 1.34 -1.16 -7.66 3.30 -7.01 0.30 0.22 0.07
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0.95 0.16 0.56 0.00 0.00 98 59 85593 12 384 -7.7 35.7 -10.6 35.6 11.1 8.06 0.47 -2.33 -7.69 2.35 -7.69 0.25
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-5.22 0.25 0.66 0.59 0.09 0.00 0.35 98 59 85715 12 384 -7.7 35.7 -10.6 35.6 11.1 12.24 0.78 3.27 -11.74 9.2
5 -7.94 0.28 0.72 0.42 0.00 0.00 0.54 98 59 85731 12 384 -7.7 35.7 -10.6 35.6 11.1 12.38 1.04 2.67 -12.04 8
.91 -8.53 0.15 0.15 0.07 0.10 0.04 0.05 98 59 85746 12 384 -7.7 35.7 -10.6 35.6 11.1 12.30 0.81 2.27 -12.06
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80 9.52 -7.83 0.33 0.43 0.13 0.00 0.00 0.22 98 59 85792 12 384 -7.7 35.7 -10.6 35.6 11.1 12.30 0.27 3.88 -1
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-10.20 11.31 -4.71 0.52 0.44 0.31 0.26 0.21 0.36 98 59 85823 12 384 -7.7 35.7 -10.6 35.6 11.0 12.23 0.36 6.8
0 -10.14 11.29 -4.65 0.36 0.29 0.19 0.00 0.17 0.21 98 59 85838 12 384 -7.7 35.7 -10.6 35.6 11.0 12.28 0.55 6
.30 -10.49 11.07 -5.22 0.35 0.72 0.41 0.00 0.00 0.54