UYLSSES

1-SEC AVG HI RES INTERPL MAG FIELD

90-090B-08D

This dataset has been ingest to CD-ROM Write Once. The data was downloaded from /raid/ftp/spacecraft_data/Ulysses_mag/interplanetary/second data is written in ASCII format. KD numbers along with the time spans are as follows:

KD021946	01/01/1990 - 05/23/1991
KD021947	05/24/1991 - 12/31/1991
KD021948	01/01/1992 - 07/31/1992
KD021949	08/01/1992 - 12/31/1992
KD021950	01/01/1993 - 06/30/1993
KD021951	07/01/1993 - 12/31/1993
KD021952	01/01/1994 - 07/31/1994
KD021953	08/01/1994 - 12/31/1994
KD021954	01/01/1995 - 05/31/1995
KD021955	06/01/1995 - 10/31/1995
KD021956	11/01/1995 - 05/23/1996
KD021957	05/24/1996 - 10/31/1996
KD021958	11/01/1996 - 05/23/1997
KD021959	05/24/1997 - 10/31/1997
KD021960	11/01/1997 - 04/30/1998
KD021961	05/01/1998 - 10/31/1998
KD021962	11/01/1998 - 04/30/1999
KD021963	05/01/1999 - 10/31/1999
KD021964	11/01/1999 - 04/30/2000
KD021965	05/01/2000 - 10/31/2000
KD021966	11/01/2000 - 03/31/2001
KD021967	04/01/2001 - 07/31/2001
KD021968	08/01/2001 - 12/31/2001
KD021969	01/01/2002 - 06/30/2002
KD021970	07/01/2002 - 12/31/2002
KD021971	01/01/2003 - 06/30/2003
KD021972	07/01/2003 - 12/31/2003
KD021973	01/01/2004 - 06/27/2004
KD023222	06/28/2004 - 12/31/2004

ULYSSES HIGH

RESOLUTION INTERPLANETARY CRUISE MAGNETIC FIELD DATA

Data Set Coverage

(yyy-mm-dd): 1990-10-25 to 1991-12-31

Satellite: Ulysses

Experiment: Ulysses Magnetic

Field

Principal Investigator: Dr. A. Balogh, Imperial College, London, UK

Data Set

Contact: Joyce Wolf, NASA Jet Propulsion Laboratory

Data Set Description:

This data set

contains high resolution samples at about one-second
intervals of the interplanetary

magnetic field measured by the Ulysses
Magnetic Field experiment. Field vector components

are given in units of
nanoteslas and in RTN coordinates, where R is the sun-s/c axis, T is

the
cross product of the solar rotation axis and R, and T is the cross product
of R and T.

The field magnitudes in nT are averages of scalar magnitudes
at higher time resolution.

Times are computed at the mid-point of each
minute interval and expressed in Spacecraft

Event Time - UT (SCET-UT).
Data gaps have not been flagged in any way - if there were no

available
data in a particular hour then there is no data record for that hour. No
data

from the Feb. 1992 encounter with Jupiter are included. Each file
includes one day of data.

Further details on the magnetic field
measurements can be found in the following reference:

Balogh, A., et al.,
Astron. Astrophys. Suppl. Ser., 92(2), 221, 1992.

Data Set Files:

ULYMAG_1SEC_FMT.txt - this file
UyydddSH.asc - high resolution data file (ASCII) for day

yyddd

Parameter Format for File UyydddSH.asc:

IY SCET-UT year (yy)
IDOY SCET-UT day

of year (ddd), IDOY = 1 for Jan. 1
IHR SCET-UT hour of day
IMIN SCET-UT minute of

hour
SEC SCET-UT second of minute
BR Radial component (RTN system) of vector

magnetic field in nT
BT Transverse component (RTN system) of vector magnetic field in

nT
BN Normal component (RTN system) of vector magnetic field in nT
B Scalar

magnitude of magnetic field in nT

The data records are read in ASCII FORTRAN format as

follows:

READ(10,110) IY, IDOY, IHR, IMIN, SEC, BR, BT, BN, B
110 FORMAT

(1X,I2,I4.3,2I3.2,F6.2,4F8.3)

NSSDC Data Set ID: 90-090B-08??

Acknowledgement:

Please

acknowledge the National Space Science Data Center and the
Principal Investigator, A.

Balogh of Imperial College, London, UK.

The

following warning has been provided by Ed Smith of the Ulysses VHM/FGM Magnetometer team at

the Jet Propulsion Laboratory for potential users of high resolution one-second

interplanetary data:

So-called Interstellar Ion Waves are of particular interest from the

high resolution data and we have published a couple of articles about them. However, in the

course of analyzing these waves, we became aware that there were numerous intervals where

"waves" were present that were actually spacecraft- generated interference. The

identification of the interference (whose origin is unknown) is difficult because they are

of the same amplitudes as the real waves and consist typically of a series of ascending and

descending tones some of which are above our pass-band but are strong enough to be "aliased"

and to then appear at low frequencies within our pass-band.

No complete catalog of

intervals affected by the interfering tones is available, but our team has developed

software used to identify real versus false signals. However, the techniques used are rather

complex and involve cross- spectra, frequency-time and polarization plots. Experience with

the data is also needed to make a correct assessment. Anyone who makes use of the data and

sees "waves" or other signals that might be interference should contact us so we can help

make an accurate identification.

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90	301	00	00	0.43	-3.760	0.162	3.105	4.879
90	301	00	00	1.43	-3.728	0.069	3.167	4.893
90	301	00	00	2.43	-3.625	0.053	3.295	4.899
90	301	00	00	3.43	-3.569	0.087	3.310	4.869
90	301	00	00	4.43	-3.560	0.014	3.298	4.853
90	301	00	00	5.43	-3.581	-0.222	3.294	4.871
90	301	00	00	6.43	-3.632	-0.274	3.294	4.911
90	301	00	00	7.43	-3.706	-0.373	3.222	4.925
90	301	00	00	8.43	-3.795	-0.303	3.123	4.924
90	301	00	00	9.43	-3.927	-0.333	2.934	4.913
90	301	00	00	10.43	-4.073	-0.415	2.750	4.932
90	301	00	00	11.43	-4.188	-0.391	2.575	4.931
90	301	00	00	12.43	-4.240	-0.299	2.471	4.917
90	301	00	00	13.43	-4.243	-0.270	2.488	4.926
90	301	00	00	14.43	-4.141	-0.132	2.661	4.924
90	301	00	00	15.43	-4.014	-0.033	2.856	4.926
90	301	00	00	16.43	-3.886	0.006	3.020	4.921
90	301	00	00	17.43	-3.777	-0.144	3.110	4.895
90	301	00	00	18.43	-3.786	-0.380	3.101	4.908
90	301	00	00	19.43	-3.879	-0.520	3.034	4.951
90	301	00	00	20.43	-3.978	-0.601	2.833	4.920
90	301	00	00	21.43	-4.026	-0.535	2.697	4.876
90	301	00	00	22.43	-3.978	-0.390	2.749	4.851
90	301	00	00	23.43	-3.898	-0.250	2.919	4.876
90	301	00	00	24.43	-3.870	-0.161	2.958	4.874
90	301	00	00	25.43	-3.895	-0.110	2.924	4.871
90	301	00	00	26.43	-3.867	-0.025	2.961	4.871
90	301	00	00	27.43	-3.897	0.022	2.959	4.894
90	301	00	00	28.43	-3.960	0.022	2.958	4.943
90	301	00	00	29.43	-3.916	-0.167	3.021	4.948
90	301	00	00	30.43	-3.918	-0.065	3.093	4.992
90	301	00	00	31.43	-3.883	-0.175	3.159	5.009
90	301	00	00	32.43	-3.931	-0.258	3.089	5.006
90	301	00	00	33.43	-4.043	-0.372	2.906	4.993
90	301	00	00	34.43	-4.154	-0.269	2.721	4.973
90	301	00	00	35.43	-4.175	-0.048	2.680	4.961
90	301	00	00	36.43	-4.105	0.120	2.713	4.922
90	301	00	00	37.43	-4.037	0.168	2.782	4.906
90	301	00	00	38.43	-3.901	0.098	2.896	4.860
90	301	00	00	39.43	-3.861	-0.014	2.955	4.862
90	301	00	00	40.43	-3.883	-0.074	2.940	4.871
90	301	00	00	41.43	-4.013	-0.082	2.792	4.889
90	301	00	00	42.43	-4.053	0.072	2.742	4.894
90	301	00	00	43.43	-4.023	0.190	2.804	4.907
90	301	00	00	44.43	-3.857	0.085	3.046	4.915
90	301	00	00	45.43	-3.752	-0.088	3.158	4.905
90	301	00	00	46.43	-3.730	-0.272	3.211	4.929
90	301	00	00	47.43	-3.788	-0.397	3.148	4.941
90	301	00	00	48.43	-3.838	-0.472	3.036	4.916
90	301	00	00	49.43	-3.827	-0.423	3.010	4.888
90	301	00	00	50.43	-3.805	-0.441	3.008	4.870
90	301	00	00	51.43	-3.811	-0.409	3.006	4.871
90	301	00	00	52.43	-3.813	-0.301	3.048	4.891
90	301	00	00	53.43	-3.732	-0.270	3.194	4.919
90	301	00	00	54.43	-3.736	-0.341	3.187	4.923
90	301	00	00	55.43	-3.906	-0.455	2.988	4.939
90	301	00	00	56.43	-4.108	-0.429	2.694	4.932

90	301	00	00	57.43	-4.229	-0.246	2.583	4.961
90	301	00	00	58.43	-4.236	-0.037	2.641	4.992
90	301	00	00	59.43	-4.155	0.079	2.778	4.999
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90	301	00	01	1.43	-3.936	0.190	3.007	4.957
90	301	00	01	2.43	-3.786	0.157	3.177	4.945
90	301	00	01	3.43	-3.638	0.094	3.373	4.962
90	301	00	01	4.43	-3.605	-0.109	3.376	4.940
90	301	00	01	5.43	-3.743	-0.322	3.234	4.957
90	301	00	01	6.43	-3.903	-0.388	3.049	4.968
90	301	00	01	7.43	-4.046	-0.319	2.910	4.994
90	301	00	01	8.43	-4.087	-0.238	2.886	5.009
90	301	00	01	9.43	-4.035	-0.161	2.854	4.945
90	301	00	01	10.43	-3.982	-0.163	2.886	4.920
90	301	00	01	11.43	-3.908	-0.158	2.940	4.893
90	301	00	01	12.43	-3.917	-0.147	2.981	4.925
90	301	00	01	13.43	-3.948	-0.062	3.019	4.970
90	301	00	01	14.43	-3.938	0.050	3.080	4.999
90	301	00	01	15.43	-3.917	0.139	3.187	5.052
90	301	00	01	16.43	-3.824	0.208	3.283	5.045
90	301	00	01	17.43	-3.758	0.085	3.312	5.010
90	301	00	01	18.43	-3.781	-0.145	3.232	4.976
90	301	00	01	19.43	-3.864	-0.236	3.119	4.971
90	301	00	01	20.43	-3.966	-0.266	2.944	4.946
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90	301	00	01	22.43	-4.083	-0.004	2.793	4.947
90	301	00	01	23.43	-4.100	0.047	2.814	4.973
90	301	00	01	24.43	-4.000	0.129	2.850	4.913
90	301	00	01	25.43	-3.896	0.153	2.925	4.874
90	301	00	01	26.43	-3.760	0.114	3.045	4.839
90	301	00	01	27.43	-3.692	0.046	3.064	4.798
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90	301	00	01	31.43	-3.637	-0.194	3.148	4.814
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90	301	00	01	33.43	-3.747	-0.172	3.002	4.805
90	301	00	01	34.43	-3.741	-0.145	2.990	4.791
90	301	00	01	35.43	-3.708	-0.264	3.082	4.829
90	301	00	01	36.43	-3.689	-0.404	3.186	4.891
90	301	00	01	37.43	-3.677	-0.328	3.257	4.923
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90	301	00	01	39.43	-3.734	0.000	3.233	4.940
90	301	00	01	40.43	-3.770	0.078	3.214	4.954
90	301	00	01	41.43	-3.697	0.155	3.323	4.973
90	301	00	01	42.43	-3.663	-0.027	3.444	5.028
90	301	00	01	43.43	-3.711	-0.127	3.409	5.040
90	301	00	01	44.43	-3.792	-0.251	3.273	5.016
90	301	00	01	45.43	-3.742	-0.192	3.280	4.980
90	301	00	01	46.43	-3.717	-0.249	3.267	4.954
90	301	00	01	47.43	-3.760	-0.129	3.258	4.976
90	301	00	01	48.43	-3.738	-0.012	3.267	4.965
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90	301	00	01	50.43	-3.832	-0.161	3.204	4.998
90	301	00	01	51.43	-3.876	-0.233	3.109	4.975
90	301	00	01	52.43	-3.993	-0.218	2.987	4.992
90	301	00	01	53.43	-4.064	-0.177	2.923	5.009

90	301	00	01	54.43	-4.068	-0.150	2.886	4.990
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90	301	00	01	56.43	-3.936	-0.050	2.929	4.906
90	301	00	01	57.43	-3.881	-0.034	2.951	4.875
90	301	00	01	58.43	-3.869	-0.060	2.938	4.858
90	301	00	01	59.43	-3.906	-0.163	2.915	4.876
90	301	00	02	0.43	-3.851	-0.249	2.971	4.870
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90	301	00	02	3.43	-3.657	-0.437	3.317	4.956
90	301	00	02	4.43	-3.597	-0.382	3.349	4.929
90	301	00	02	5.43	-3.609	-0.256	3.399	4.964
90	301	00	02	6.43	-3.621	-0.117	3.427	4.988
90	301	00	02	7.43	-3.637	-0.066	3.439	5.006
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90	301	00	02	9.43	-3.638	-0.041	3.427	4.998
90	301	00	02	10.43	-3.660	-0.121	3.386	4.987
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90	301	00	02	12.43	-3.669	-0.027	3.339	4.960
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90	301	00	02	15.43	-3.676	0.091	3.326	4.958
90	301	00	02	16.43	-3.670	0.062	3.323	4.951
90	301	00	02	17.43	-3.675	0.022	3.322	4.953
90	301	00	02	18.43	-3.689	-0.046	3.281	4.937
90	301	00	02	19.43	-3.764	-0.104	3.273	4.989
90	301	00	02	20.43	-3.770	-0.079	3.237	4.970
90	301	00	02	21.43	-3.726	-0.078	3.308	4.983
90	301	00	02	22.43	-3.675	-0.060	3.362	4.981
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90	301	00	02	24.43	-3.652	-0.100	3.457	5.030
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90	301	00	02	26.43	-3.781	-0.005	3.321	5.033
90	301	00	02	27.43	-3.853	0.080	3.241	5.036
90	301	00	02	28.43	-3.859	0.127	3.238	5.039
90	301	00	02	29.43	-3.873	0.136	3.241	5.052
90	301	00	02	30.43	-3.857	0.216	3.257	5.053
90	301	00	02	31.43	-3.847	0.230	3.257	5.046
90	301	00	02	32.43	-3.828	0.344	3.284	5.055
90	301	00	02	33.43	-3.870	0.272	3.247	5.059
90	301	00	02	34.43	-3.885	0.249	3.248	5.070
90	301	00	02	35.43	-3.870	0.136	3.257	5.060
90	301	00	02	36.43	-3.787	0.018	3.348	5.055
90	301	00	02	37.43	-3.785	0.056	3.352	5.056
90	301	00	02	38.43	-3.798	0.124	3.324	5.049
90	301	00	02	39.43	-3.756	0.027	3.339	5.026
90	301	00	02	40.43	-3.786	0.065	3.311	5.029
90	301	00	02	41.43	-3.792	0.123	3.307	5.033
90	301	00	02	42.43	-3.812	0.061	3.292	5.038
90	301	00	02	43.43	-3.848	-0.094	3.328	5.089
90	301	00	02	44.43	-3.855	-0.129	3.289	5.069
90	301	00	02	45.43	-3.850	-0.009	3.332	5.092
90	301	00	02	46.43	-3.813	-0.010	3.317	5.054
90	301	00	02	47.43	-3.803	-0.039	3.271	5.016
90	301	00	02	48.43	-3.859	-0.092	3.226	5.031
90	301	00	02	49.43	-3.848	-0.032	3.272	5.051
90	301	00	02	50.43	-3.757	0.003	3.384	5.056

90	301	00	02	51.43	-3.696	-0.037	3.448	5.055
90	301	00	02	52.43	-3.680	-0.095	3.480	5.065
90	301	00	02	53.43	-3.698	-0.329	3.406	5.038
90	301	00	02	54.43	-3.783	-0.370	3.326	5.051
90	301	00	02	55.43	-3.823	-0.310	3.289	5.053
90	301	00	02	56.43	-3.757	-0.064	3.368	5.046
90	301	00	02	57.43	-3.740	-0.161	3.374	5.040
90	301	00	02	58.43	-3.748	-0.251	3.412	5.075
90	301	00	02	59.43	-3.699	-0.293	3.422	5.047
90	301	00	03	0.43	-3.704	-0.345	3.347	5.004
90	301	00	03	1.43	-3.678	-0.069	3.426	5.026
90	301	00	03	2.43	-3.610	0.036	3.472	5.009
90	301	00	03	3.43	-3.516	0.144	3.512	4.971
90	301	00	03	4.43	-3.422	0.142	3.529	4.918
90	301	00	03	5.43	-3.414	0.098	3.567	4.938
90	301	00	03	6.43	-3.418	0.089	3.605	4.968
90	301	00	03	7.43	-3.414	0.141	3.618	4.977
90	301	00	03	8.43	-3.430	0.121	3.572	4.954
90	301	00	03	9.43	-3.477	0.144	3.484	4.924
90	301	00	03	10.43	-3.485	0.275	3.487	4.938
90	301	00	03	11.43	-3.448	0.462	3.539	4.962
90	301	00	03	12.43	-3.389	0.655	3.587	4.978
90	301	00	03	13.43	-3.414	0.619	3.557	4.969
90	301	00	03	14.43	-3.490	0.558	3.507	4.979
90	301	00	03	15.43	-3.580	0.344	3.422	4.965
90	301	00	03	16.43	-3.585	0.441	3.481	5.017
90	301	00	03	17.43	-3.605	0.431	3.464	5.018
90	301	00	03	18.43	-3.664	0.416	3.426	5.033
90	301	00	03	19.43	-3.720	0.225	3.394	5.041
90	301	00	03	20.43	-3.765	0.177	3.387	5.067
90	301	00	03	21.43	-3.799	-0.005	3.347	5.063
90	301	00	03	22.43	-3.891	-0.170	3.194	5.037
90	301	00	03	23.43	-3.940	-0.247	3.134	5.041
90	301	00	03	24.43	-3.894	-0.195	3.190	5.038
90	301	00	03	25.43	-3.852	-0.095	3.281	5.061
90	301	00	03	26.43	-3.787	0.047	3.365	5.066
90	301	00	03	27.43	-3.807	0.009	3.370	5.085
90	301	00	03	28.43	-3.748	0.068	3.445	5.091
90	301	00	03	29.43	-3.686	0.147	3.502	5.086
90	301	00	03	30.43	-3.591	0.208	3.598	5.088
90	301	00	03	31.43	-3.624	0.149	3.566	5.086
90	301	00	03	32.43	-3.578	0.155	3.649	5.113
90	301	00	03	33.43	-3.575	0.066	3.627	5.094
90	301	00	03	34.43	-3.572	0.016	3.563	5.045
90	301	00	03	35.43	-3.666	-0.058	3.452	5.035
90	301	00	03	36.43	-3.599	-0.055	3.377	4.936
90	301	00	03	37.43	-3.685	-0.028	3.233	4.902
90	301	00	03	38.43	-3.780	-0.005	3.165	4.930
90	301	00	03	39.43	-3.778	0.073	3.118	4.899
90	301	00	03	40.43	-3.868	-0.086	2.980	4.883
90	301	00	03	41.43	-3.960	-0.133	3.010	4.976
90	301	00	03	42.43	-4.026	-0.265	2.939	4.991
90	301	00	03	43.43	-4.066	-0.292	3.019	5.073
90	301	00	03	44.43	-4.065	-0.367	3.003	5.067
90	301	00	03	45.43	-4.169	-0.490	2.908	5.106
90	301	00	03	46.43	-4.190	-0.555	2.811	5.076
90	301	00	03	47.43	-4.184	-0.619	2.721	5.029

90	301	00	03	48.43	-4.197	-0.731	2.627	5.005
90	301	00	03	49.43	-4.246	-0.738	2.505	4.985
90	301	00	03	50.43	-4.267	-0.733	2.439	4.970
90	301	00	03	51.43	-4.297	-0.740	2.408	4.982
90	301	00	03	52.43	-4.230	-0.729	2.525	4.980
90	301	00	03	53.43	-4.192	-0.569	2.680	5.008
90	301	00	03	54.43	-4.189	-0.593	2.722	5.031
90	301	00	03	55.43	-4.262	-0.619	2.662	5.063
90	301	00	03	56.43	-4.196	-0.458	2.841	5.088
90	301	00	03	57.43	-4.110	-0.361	2.932	5.061
90	301	00	03	58.43	-4.087	-0.350	2.976	5.068
90	301	00	03	59.43	-4.013	-0.269	3.066	5.058
90	301	00	04	0.43	-3.997	-0.173	3.094	5.058
90	301	00	04	1.43	-4.027	-0.081	3.062	5.060
90	301	00	04	2.43	-4.057	-0.042	3.001	5.047
90	301	00	04	3.43	-4.083	-0.028	2.973	5.051
90	301	00	04	4.43	-4.088	0.006	2.919	5.023
90	301	00	04	5.43	-4.048	0.061	2.953	5.011
90	301	00	04	6.43	-4.006	0.043	2.970	4.987
90	301	00	04	7.43	-4.018	0.038	2.980	5.002
90	301	00	04	8.43	-4.031	-0.062	2.971	5.008
90	301	00	04	9.43	-4.070	-0.117	2.920	5.011
90	301	00	04	10.43	-4.054	-0.180	2.939	5.011
90	301	00	04	11.43	-4.036	-0.201	3.012	5.040
90	301	00	04	12.43	-3.927	-0.095	3.144	5.031
90	301	00	04	13.43	-3.887	0.074	3.240	5.061
90	301	00	04	14.43	-3.869	0.105	3.273	5.069
90	301	00	04	15.43	-3.845	0.201	3.300	5.071
90	301	00	04	16.43	-3.875	0.143	3.178	5.013
90	301	00	04	17.43	-3.907	0.103	3.160	5.026
90	301	00	04	18.43	-3.802	0.241	3.319	5.052
90	301	00	04	19.43	-3.787	0.130	3.282	5.014
90	301	00	04	20.43	-3.895	-0.047	3.222	5.055
90	301	00	04	21.43	-3.986	-0.110	3.086	5.042
90	301	00	04	22.43	-4.002	-0.055	3.035	5.023
90	301	00	04	23.43	-3.880	0.049	3.094	4.963
90	301	00	04	24.43	-3.879	-0.015	3.092	4.960
90	301	00	04	25.43	-3.968	-0.179	2.978	4.965
90	301	00	04	26.43	-3.922	-0.102	3.002	4.940
90	301	00	04	27.43	-4.102	-0.470	2.646	4.904
90	301	00	04	28.43	-4.208	-0.476	2.539	4.938
90	301	00	04	29.43	-4.235	-0.049	2.641	4.991
90	301	00	04	30.43	-4.106	0.525	2.794	4.994
90	301	00	04	31.43	-4.009	0.735	2.866	4.983
90	301	00	04	32.43	-4.017	0.621	2.844	4.961
90	301	00	04	33.43	-4.028	0.636	2.701	4.891
90	301	00	04	34.43	-4.019	0.512	2.695	4.866
90	301	00	04	35.43	-3.984	0.217	2.796	4.872
90	301	00	04	36.43	-3.871	-0.089	3.042	4.924
90	301	00	04	37.43	-3.736	-0.314	3.238	4.954
90	301	00	04	38.43	-3.772	-0.319	3.406	5.092
90	301	00	04	39.43	-3.763	0.054	3.440	5.099
90	301	00	04	40.43	-3.748	0.418	3.395	5.075
90	301	00	04	41.43	-3.789	0.481	3.251	5.016
90	301	00	04	42.43	-3.851	0.677	3.107	4.994
90	301	00	04	43.43	-3.806	0.854	3.126	4.999
90	301	00	04	44.43	-3.689	0.836	3.293	5.015

91	001	00	00	0.49	-0.827	3.129	0.579	3.288
91	001	00	00	4.49	-0.777	3.129	0.773	3.315
91	001	00	00	8.49	-0.731	3.175	0.690	3.330
91	001	00	00	12.49	-0.894	3.128	0.612	3.310
91	001	00	00	16.49	-0.922	3.140	0.576	3.323
91	001	00	00	20.49	-0.924	3.159	0.441	3.321
91	001	00	00	24.49	-0.864	3.135	0.516	3.292
91	001	00	00	28.49	-0.808	3.200	0.514	3.340
91	001	00	00	32.49	-0.741	3.197	0.520	3.323
91	001	00	00	36.49	-0.676	3.200	0.540	3.315
91	001	00	00	40.49	-0.702	3.186	0.575	3.313
91	001	00	00	44.49	-0.776	3.185	0.475	3.313
91	001	00	00	48.49	-0.752	3.196	0.516	3.323
91	001	00	00	52.49	-0.692	3.214	0.615	3.345
91	001	00	00	56.49	-0.684	3.220	0.591	3.344
91	001	00	01	0.49	-0.724	3.212	0.589	3.344
91	001	00	01	4.49	-0.756	3.198	0.594	3.340
91	001	00	01	8.49	-0.769	3.209	0.581	3.351
91	001	00	01	12.49	-0.726	3.130	0.602	3.269
91	001	00	01	16.49	-0.713	3.094	0.602	3.231
91	001	00	01	20.49	-0.695	3.216	0.560	3.338
91	001	00	01	24.49	-0.719	3.172	0.639	3.314
91	001	00	01	28.49	-0.716	3.210	0.613	3.345
91	001	00	01	32.49	-0.701	3.177	0.659	3.319
91	001	00	01	36.49	-0.731	3.150	0.688	3.306
91	001	00	01	40.49	-0.754	3.132	0.745	3.306
91	001	00	01	44.49	-0.658	3.173	0.680	3.311
91	001	00	01	48.49	-0.704	3.130	0.709	3.286
91	001	00	01	52.49	-0.726	3.135	0.754	3.305
91	001	00	01	56.49	-0.771	3.093	0.868	3.304
91	001	00	02	0.49	-0.725	3.032	0.741	3.204
91	001	00	02	4.49	-0.756	3.095	0.774	3.279
91	001	00	02	8.49	-0.694	3.033	0.770	3.205
91	001	00	02	12.49	-0.691	3.095	0.748	3.258
91	001	00	02	16.49	-0.568	3.095	0.752	3.235
91	001	00	02	20.49	-0.435	3.134	1.255	3.403
91	001	00	02	24.49	0.031	3.204	0.600	3.260
91	001	00	02	28.49	-0.341	3.239	0.420	3.284
91	001	00	02	32.49	-0.611	3.302	0.148	3.362
91	001	00	02	36.49	-0.793	3.061	0.530	3.206
91	001	00	02	40.49	-0.801	3.127	0.544	3.273
91	001	00	02	44.49	-2.303	1.533	1.405	3.103
91	001	00	02	48.49	-2.027	1.966	1.350	3.130
91	001	00	02	52.49	-1.881	2.216	1.282	3.177
91	001	00	02	56.49	-1.986	2.073	1.276	3.141
91	001	00	03	0.49	-1.924	2.094	1.386	3.164
91	001	00	03	4.49	-1.842	2.324	1.213	3.204
91	001	00	03	8.49	-1.924	2.302	1.112	3.200
91	001	00	03	12.49	-1.879	2.248	1.170	3.155
91	001	00	03	16.49	-2.002	2.275	1.152	3.242
91	001	00	03	20.49	-1.915	2.324	1.168	3.230
91	001	00	03	24.49	-1.882	2.332	1.125	3.201
91	001	00	03	28.49	-1.871	2.312	1.213	3.211
91	001	00	03	32.49	-1.620	2.434	1.229	3.172
91	001	00	03	36.49	-1.621	2.500	1.247	3.230
91	001	00	03	40.49	-1.534	2.456	1.453	3.240
91	001	00	03	44.49	-1.666	2.362	1.439	3.228

91	001	00	03	48.49	-1.634	2.329	1.598	3.263
91	001	00	03	52.49	-1.543	2.325	1.501	3.169
91	001	00	03	56.49	-1.988	2.009	1.653	3.275
91	001	00	04	0.49	-2.002	1.904	1.593	3.189
91	001	00	04	4.49	-2.590	1.055	1.364	3.112
91	001	00	04	8.49	-2.631	0.975	1.331	3.105
91	001	00	04	12.49	-2.455	1.337	1.449	3.149
91	001	00	04	16.49	-2.314	1.370	1.454	3.057
91	001	00	04	20.49	-2.411	1.061	1.418	2.991
91	001	00	04	24.49	-2.244	1.117	1.349	2.846
91	001	00	04	28.49	-2.277	1.080	1.368	2.868
91	001	00	04	32.49	-2.525	1.130	1.460	3.128
91	001	00	04	36.49	-2.610	1.281	1.569	3.303
91	001	00	04	40.49	-2.550	1.334	1.518	3.254
91	001	00	04	44.49	-2.483	1.328	1.489	3.185
91	001	00	04	48.49	-2.611	1.318	1.401	3.243
91	001	00	04	52.49	-2.539	1.480	1.383	3.248
91	001	00	04	56.49	-2.476	1.698	1.337	3.287
91	001	00	05	0.49	-2.329	1.713	1.400	3.212
91	001	00	05	4.49	-2.391	1.682	1.413	3.247
91	001	00	05	8.49	-2.355	1.704	1.345	3.203
91	001	00	05	12.49	-2.328	1.633	1.428	3.183
91	001	00	05	16.49	-2.334	1.825	1.460	3.303
91	001	00	05	20.49	-2.322	1.741	1.274	3.170
91	001	00	05	24.49	-2.223	1.786	1.300	3.134
91	001	00	05	28.49	-2.359	1.804	1.459	3.309
91	001	00	05	32.49	-2.286	1.700	1.420	3.183
91	001	00	05	36.49	-2.125	1.752	1.544	3.157
91	001	00	05	40.49	-2.100	1.800	1.482	3.138
91	001	00	05	44.49	-2.037	1.959	1.473	3.187
91	001	00	05	48.49	-2.144	1.924	1.327	3.172
91	001	00	05	52.49	-2.007	2.153	1.155	3.162
91	001	00	05	56.49	-2.176	1.979	1.346	3.234
91	001	00	06	0.49	-2.279	1.776	1.344	3.186
91	001	00	06	4.49	-2.292	1.758	1.296	3.166
91	001	00	06	8.49	-2.352	1.695	1.285	3.172
91	001	00	06	12.49	-2.355	1.690	1.223	3.146
91	001	00	06	16.49	-2.243	1.714	1.349	3.129
91	001	00	06	20.49	-2.244	1.806	1.276	3.151
91	001	00	06	24.49	-2.462	1.260	1.620	3.205
91	001	00	06	28.49	-2.404	1.344	1.719	3.247
91	001	00	06	32.49	-2.341	1.504	1.610	3.215
91	001	00	06	36.49	-2.262	1.838	1.567	3.309
91	001	00	06	40.49	-2.218	1.832	1.629	3.306
91	001	00	06	44.49	-2.248	1.727	1.614	3.263
91	001	00	06	48.49	-2.310	1.666	1.688	3.310
91	001	00	06	52.49	-2.277	1.563	1.695	3.240
91	001	00	06	56.49	-2.389	1.500	1.731	3.309
91	001	00	07	0.49	-2.387	1.555	1.649	3.292
91	001	00	07	4.49	-2.266	1.579	1.732	3.260
91	001	00	07	8.49	-2.020	1.742	1.313	2.974
91	001	00	07	12.49	-2.057	2.058	1.301	3.188
91	001	00	07	16.49	-2.037	2.115	1.302	3.212
91	001	00	07	20.49	-1.979	2.130	1.059	3.094
91	001	00	07	24.49	-2.044	2.205	1.205	3.239
91	001	00	07	28.49	-2.083	2.281	1.119	3.286
91	001	00	07	32.49	-2.054	2.065	1.424	3.242

91	001	00	07	36.49	-2.033	1.799	1.752	3.231
91	001	00	07	40.49	-2.102	1.782	1.897	3.345
91	001	00	07	44.49	-2.088	1.943	1.713	3.327
91	001	00	07	48.49	-1.974	2.134	1.505	3.273
91	001	00	07	52.49	-2.143	2.172	1.329	3.328
91	001	00	07	56.49	-2.048	2.207	1.144	3.221
91	001	00	08	0.49	-1.963	2.218	1.213	3.200
91	001	00	08	4.49	-1.971	2.237	1.328	3.264
91	001	00	08	8.49	-2.058	2.088	1.213	3.173
91	001	00	08	12.49	-2.270	1.924	1.408	3.292
91	001	00	08	15.51	-2.259	1.983	1.361	3.299
91	001	00	08	19.51	-2.325	1.851	1.409	3.289
91	001	00	08	23.51	-1.997	2.271	1.338	3.307
91	001	00	08	27.51	-1.907	2.323	1.363	3.300
91	001	00	08	31.51	-1.957	2.237	1.413	3.291
91	001	00	08	35.51	-2.102	2.056	1.437	3.273
91	001	00	08	39.51	-2.238	1.672	1.637	3.238
91	001	00	08	43.51	-2.234	1.604	1.815	3.295
91	001	00	08	47.51	-2.186	1.724	1.840	3.338
91	001	00	08	51.51	-2.139	1.732	1.819	3.299
91	001	00	08	55.51	-2.196	1.588	1.843	3.277
91	001	00	08	59.51	-2.178	1.665	1.816	3.288
91	001	00	09	3.51	-2.091	2.020	1.618	3.328
91	001	00	09	7.51	-1.903	2.393	1.284	3.316
91	001	00	09	11.51	-1.887	2.425	1.255	3.319
91	001	00	09	15.51	-1.748	2.485	1.157	3.251
91	001	00	09	19.51	-1.839	2.405	1.166	3.245
91	001	00	09	23.51	-1.835	2.408	1.193	3.254
91	001	00	09	27.51	-1.820	2.270	1.390	3.224
91	001	00	09	31.51	-1.907	2.252	1.453	3.289
91	001	00	09	35.51	-1.889	2.214	1.489	3.269
91	001	00	09	39.51	-1.916	2.226	1.423	3.263
91	001	00	09	43.51	-1.890	2.140	1.474	3.213
91	001	00	09	47.51	-1.908	2.083	1.548	3.221
91	001	00	09	51.51	-1.790	2.292	1.442	3.246
91	001	00	09	55.51	-1.806	2.104	1.270	3.050
91	001	00	09	59.51	-1.994	2.166	1.175	3.170
91	001	00	10	3.51	-1.870	2.249	1.479	3.278
91	001	00	10	7.51	-1.781	2.382	1.419	3.295
91	001	00	10	11.51	-1.819	2.382	1.402	3.309
91	001	00	10	15.51	-1.739	2.264	1.467	3.210
91	001	00	10	19.51	-1.637	2.360	1.365	3.180
91	001	00	10	23.51	-1.625	2.341	1.410	3.179
91	001	00	10	27.51	-1.642	2.491	1.419	3.304
91	001	00	10	31.51	-1.515	2.499	1.402	3.241
91	001	00	10	35.51	-1.452	2.539	1.446	3.263
91	001	00	10	39.51	-1.419	2.616	1.401	3.289
91	001	00	10	43.51	-1.443	2.633	1.401	3.314
91	001	00	10	47.51	-1.308	2.442	1.519	3.160
91	001	00	10	51.51	-1.260	2.583	1.377	3.187
91	001	00	10	55.51	-1.218	2.533	1.551	3.210
91	001	00	10	59.51	-1.222	2.755	1.498	3.365
91	001	00	11	3.51	-1.340	2.767	1.368	3.365
91	001	00	11	7.51	-1.323	2.750	1.390	3.353
91	001	00	11	11.51	-1.865	2.504	1.269	3.370
91	001	00	11	15.51	-1.951	2.590	0.766	3.332
91	001	00	11	19.51	-2.045	2.472	0.635	3.270

91	001	00	11	23.51	-1.985	2.469	0.737	3.253
91	001	00	11	27.51	-2.018	2.579	0.605	3.330
91	001	00	11	31.51	-1.931	2.486	0.641	3.213
91	001	00	11	35.51	-1.926	2.542	0.933	3.323
91	001	00	11	39.51	-1.908	2.533	1.030	3.334
91	001	00	11	43.51	-1.887	2.472	1.217	3.339
91	001	00	11	47.51	-1.869	2.509	1.203	3.352
91	001	00	11	51.51	-1.791	2.594	0.879	3.273
91	001	00	11	55.51	-1.785	2.619	0.741	3.255
91	001	00	11	59.51	-1.720	2.649	0.646	3.224
91	001	00	12	3.51	-1.771	2.609	0.821	3.258
91	001	00	12	7.51	-1.773	2.675	0.760	3.298
91	001	00	12	11.51	-1.801	2.641	0.780	3.290
91	001	00	12	15.51	-1.770	2.685	0.766	3.306
91	001	00	12	19.51	-1.716	2.698	0.762	3.287
91	001	00	12	23.51	-1.674	2.725	0.809	3.299
91	001	00	12	27.51	-1.664	2.664	0.821	3.246
91	001	00	12	31.51	-1.732	2.677	0.980	3.336
91	001	00	12	35.51	-1.581	2.767	0.607	3.244
91	001	00	12	39.51	-1.655	2.751	0.655	3.277
91	001	00	12	43.51	-1.691	2.778	0.628	3.312
91	001	00	12	47.51	-1.732	2.729	0.541	3.277
91	001	00	12	51.51	-1.754	2.732	0.417	3.273
91	001	00	12	55.51	-1.729	2.767	0.370	3.283
91	001	00	12	59.51	-1.579	2.807	0.380	3.243
91	001	00	13	3.51	-1.305	3.036	0.485	3.340
91	001	00	13	7.51	-1.459	2.998	0.331	3.351
91	001	00	13	11.51	-1.385	3.031	0.361	3.352
91	001	00	13	15.51	-1.473	2.965	0.106	3.312
91	001	00	13	19.51	-1.501	2.951	0.052	3.311
91	001	00	13	23.51	-1.468	2.869	0.593	3.276
91	001	00	13	27.51	-1.484	2.731	1.025	3.273
91	001	00	13	31.51	-1.572	2.863	0.769	3.355
91	001	00	13	35.51	-1.512	2.861	0.720	3.315
91	001	00	13	39.51	-1.509	2.724	1.155	3.321
91	001	00	13	43.51	-1.538	2.799	1.021	3.353
91	001	00	13	47.51	-1.557	2.798	0.920	3.332
91	001	00	13	51.51	-1.540	2.816	0.785	3.304
91	001	00	13	55.51	-1.501	2.855	0.601	3.281
91	001	00	13	59.51	-1.344	2.800	1.319	3.375
91	001	00	14	3.51	-1.559	2.795	0.948	3.337
91	001	00	14	7.51	-1.356	2.838	1.102	3.332
91	001	00	14	11.51	-1.334	2.887	0.959	3.322
91	001	00	14	15.51	-1.339	2.836	1.143	3.338
91	001	00	14	19.51	-1.390	2.831	1.135	3.352
91	001	00	14	23.51	-1.455	2.745	1.102	3.297
91	001	00	14	27.51	-1.306	2.890	0.966	3.315
91	001	00	14	31.51	-1.502	2.770	1.014	3.310
91	001	00	14	35.51	-1.375	2.857	0.814	3.273
91	001	00	14	39.51	-1.399	2.805	0.935	3.271
91	001	00	14	43.51	-1.426	2.792	0.958	3.278
91	001	00	14	47.51	-1.403	2.778	0.988	3.266
91	001	00	14	51.51	-1.439	2.801	0.993	3.302
91	001	00	14	55.51	-1.524	2.767	0.957	3.301
91	001	00	14	59.51	-1.417	2.765	0.790	3.206
91	001	00	15	3.51	-1.224	2.887	0.836	3.245
91	001	00	15	7.51	-1.153	2.932	0.849	3.263

91	001	00	15	11.51	-1.319	2.836	0.751	3.217
91	001	00	15	15.51	-1.376	2.791	0.887	3.235
91	001	00	15	19.51	-1.302	2.890	0.810	3.271
91	001	00	15	23.51	-1.202	2.885	0.718	3.206
91	001	00	15	27.51	-1.245	2.856	0.896	3.241
91	001	00	15	31.51	-1.127	2.935	0.890	3.268
91	001	00	15	35.51	-1.085	2.932	0.811	3.229
91	001	00	15	39.51	-1.057	2.938	0.846	3.235
91	001	00	15	43.51	-1.249	2.875	0.726	3.218
91	001	00	15	47.51	-1.167	2.934	0.756	3.247
91	001	00	15	51.51	-1.166	2.893	0.891	3.244
91	001	00	15	55.51	-1.141	2.954	0.767	3.259
91	001	00	15	59.51	-1.052	2.992	0.685	3.244
91	001	00	16	3.51	-1.096	2.967	0.715	3.243
91	001	00	16	7.51	-1.113	2.943	0.779	3.242
91	001	00	16	11.51	-1.086	2.933	0.897	3.253
91	001	00	16	15.51	-1.130	2.890	0.906	3.233
91	001	00	16	19.51	-1.064	2.924	0.914	3.243
91	001	00	16	23.51	-1.090	2.909	0.969	3.254
91	001	00	16	27.51	-1.225	2.886	0.864	3.252
91	001	00	16	31.51	-1.370	2.770	0.962	3.236
91	001	00	16	35.51	-1.312	2.829	0.975	3.267
91	001	00	16	39.51	-1.358	2.764	1.128	3.280
91	001	00	16	43.51	-1.443	2.766	1.097	3.307
91	001	00	16	47.51	-0.909	3.071	0.635	3.265
91	001	00	16	51.51	-1.160	2.974	0.767	3.283
91	001	00	16	55.51	-1.306	2.936	0.730	3.295
91	001	00	16	59.51	-1.242	2.921	0.778	3.268
91	001	00	17	3.51	-1.201	2.968	0.774	3.294
91	001	00	17	7.51	-1.229	2.958	0.672	3.273
91	001	00	17	11.51	-1.270	2.910	0.697	3.251
91	001	00	17	15.51	-1.290	2.953	0.710	3.300
91	001	00	17	19.51	-1.204	2.965	0.671	3.270
91	001	00	17	23.51	-1.282	2.971	0.507	3.275
91	001	00	17	27.51	-1.518	2.645	1.174	3.268
91	001	00	17	31.51	-1.522	2.579	1.279	3.256
91	001	00	17	35.51	-1.410	2.585	1.303	3.220
91	001	00	17	39.51	-1.546	2.610	1.354	3.322
91	001	00	17	43.51	-1.528	2.654	1.187	3.284
91	001	00	17	47.51	-1.570	2.680	1.155	3.314
91	001	00	17	51.51	-1.589	2.660	1.146	3.303
91	001	00	17	55.51	-1.500	2.809	0.823	3.290
91	001	00	17	59.51	-1.618	2.655	0.923	3.244
91	001	00	18	3.51	-1.846	2.528	1.183	3.347
91	001	00	18	7.51	-1.588	2.656	1.031	3.262
91	001	00	18	11.51	-1.655	2.566	1.185	3.276
91	001	00	18	15.51	-1.689	2.556	1.218	3.297
91	001	00	18	19.51	-1.767	2.445	1.339	3.301
91	001	00	18	23.51	-1.716	2.459	1.354	3.290
91	001	00	18	27.51	-1.667	2.675	1.118	3.344
91	001	00	18	31.51	-1.676	2.561	1.196	3.286
91	001	00	18	35.51	-1.654	2.552	1.230	3.281
91	001	00	18	39.51	-1.789	2.679	0.933	3.354
91	001	00	18	43.51	-1.858	2.706	0.659	3.348
91	001	00	18	47.51	-1.788	2.669	0.700	3.288
91	001	00	18	51.51	-1.694	2.767	0.624	3.303
91	001	00	18	55.51	-1.794	2.721	0.750	3.344