

#####  
 EPHEMERIS OF SOLAR SYSTEM BODIES  
 #####

Planet 2 Venus  
 Planetary theory INPOP08  
 Apparent coordinates (true equator; equinoxe of the date)  
 Frame center: topocenter: merchtem  
 0 h 19 m 55.920 s E ; 50 d 11 ' 1.199 " N ; 16.00 m  
 Relativistic perturbations, coordinate system 0  
 Equatorial coordinates (R.A, Dec.)

#####

	Date UTC	R.A	Dec.	Distance	V.Mag	Phase	Elong.	muRAcosDE	muDE	Dist dot
	h m s	h m s	o ' "	au.		o	o	"/s	"/s	km/s
1 1	2011 21 59 60.00	15 31 53.67909	-15 29 1.1229	0.622907954	-4.48	94.02	46.64	0.398E-01	-0.945E-02	13.0143
1 2	2011 21 59 60.00	15 35 48.99911	-15 42 30.6998	0.630491741	-4.47	93.36	46.68	0.401E-01	-0.943E-02	13.0245
1 3	2011 21 59 60.00	15 39 46.69656	-15 55 57.9414	0.638080936	-4.46	92.72	46.72	0.405E-01	-0.939E-02	13.0333
1 4	2011 21 59 60.00	15 43 46.71822	-16 9 21.5981	0.645674688	-4.45	92.08	46.75	0.408E-01	-0.934E-02	13.0407
1 5	2011 21 59 60.00	15 47 49.01405	-16 22 40.4480	0.653272218	-4.45	91.45	46.78	0.411E-01	-0.928E-02	13.0468
1 6	2011 21 59 60.00	15 51 53.53708	-16 35 53.2968	0.660872804	-4.44	90.83	46.79	0.414E-01	-0.921E-02	13.0518
1 7	2011 21 59 60.00	15 56 0.24311	-16 48 58.9771	0.668475767	-4.43	90.22	46.80	0.417E-01	-0.912E-02	13.0557
1 8	2011 21 59 60.00	16 0 9.09027	-17 1 56.3471	0.676080458	-4.42	89.61	46.80	0.420E-01	-0.901E-02	13.0585
1 9	2011 21 59 60.00	16 4 20.03853	-17 14 44.2898	0.683686254	-4.42	89.01	46.80	0.423E-01	-0.890E-02	13.0603
1 10	2011 21 59 60.00	16 8 33.04928	-17 27 21.7111	0.691292550	-4.41	88.41	46.79	0.426E-01	-0.877E-02	13.0611
1 11	2011 21 59 60.00	16 12 48.08498	-17 39 47.5400	0.698898757	-4.40	87.83	46.77	0.429E-01	-0.863E-02	13.0609
1 12	2011 21 59 60.00	16 17 5.10887	-17 52 0.7268	0.706504300	-4.39	87.25	46.74	0.432E-01	-0.848E-02	13.0597
1 13	2011 21 59 60.00	16 21 24.08476	-18 4 0.2431	0.714108613	-4.38	86.67	46.71	0.434E-01	-0.831E-02	13.0577
1 14	2011 21 59 60.00	16 25 44.97680	-18 15 45.0806	0.721711137	-4.38	86.10	46.68	0.437E-01	-0.814E-02	13.0547
1 15	2011 21 59 60.00	16 30 7.74920	-18 27 14.2509	0.729311310	-4.37	85.54	46.64	0.439E-01	-0.795E-02	13.0507
1 16	2011 21 59 60.00	16 34 32.36601	-18 38 26.7840	0.736908552	-4.36	84.98	46.59	0.442E-01	-0.775E-02	13.0458
1 17	2011 21 59 60.00	16 38 58.79075	-18 49 21.7257	0.744502256	-4.36	84.43	46.54	0.444E-01	-0.754E-02	13.0398
1 18	2011 21 59 60.00	16 43 26.98622	-18 59 58.1356	0.752091767	-4.35	83.89	46.48	0.447E-01	-0.732E-02	13.0326
1 19	2011 21 59 60.00	16 47 56.91441	-19 10 15.0857	0.759676365	-4.34	83.34	46.42	0.449E-01	-0.709E-02	13.0242
1 20	2011 21 59 60.00	16 52 28.53647	-19 20 11.6615	0.767255266	-4.33	82.81	46.35	0.451E-01	-0.685E-02	13.0144
1 21	2011 21 59 60.00	16 57 1.81280	-19 29 46.9663	0.774827624	-4.33	82.28	46.28	0.453E-01	-0.660E-02	13.0031
1 22	2011 21 59 60.00	17 1 36.70271	-19 39 0.1273	0.782392551	-4.32	81.75	46.21	0.456E-01	-0.633E-02	12.9903
1 23	2011 21 59 60.00	17 6 13.16391	-19 47 50.3014	0.789949150	-4.31	81.23	46.13	0.458E-01	-0.606E-02	12.9759
1 24	2011 21 59 60.00	17 10 51.15180	-19 56 16.6782	0.797496547	-4.30	80.71	46.04	0.460E-01	-0.578E-02	12.9601
1 25	2011 21 59 60.00	17 15 30.61902	-20 4 18.4808	0.805033917	-4.30	80.20	45.95	0.462E-01	-0.549E-02	12.9430
1 26	2011 21 59 60.00	17 20 11.51534	-20 11 54.9641	0.812560508	-4.29	79.69	45.86	0.464E-01	-0.520E-02	12.9247
1 27	2011 21 59 60.00	17 24 53.78801	-20 19 5.4125	0.820075648	-4.28	79.19	45.76	0.465E-01	-0.489E-02	12.9052
1 28	2011 21 59 60.00	17 29 37.38223	-20 25 49.1383	0.827578749	-4.28	78.69	45.67	0.467E-01	-0.458E-02	12.8849
1 29	2011 21 59 60.00	17 34 22.24186	-20 32 5.4810	0.835069303	-4.27	78.19	45.56	0.469E-01	-0.425E-02	12.8637
1 30	2011 21 59 60.00	17 39 8.30998	-20 37 53.8066	0.842546880	-4.26	77.70	45.46	0.470E-01	-0.393E-02	12.8419
1 31	2011 21 59 60.00	17 43 55.52944	-20 43 13.5082	0.850011117	-4.26	77.21	45.35	0.472E-01	-0.359E-02	12.8196
2 1	2011 21 59 60.00	17 48 43.84324	-20 48 4.0071	0.857461716	-4.25	76.73	45.23	0.473E-01	-0.325E-02	12.7968
2 2	2011 21 59 60.00	17 53 33.19478	-20 52 24.7531	0.864898426	-4.24	76.25	45.12	0.475E-01	-0.290E-02	12.7736
2 3	2011 21 59 60.00	17 58 23.52803	-20 56 15.2256	0.872321046	-4.24	75.77	45.00	0.476E-01	-0.254E-02	12.7501
2 4	2011 21 59 60.00	18 3 14.78752	-20 59 34.9345	0.879729405	-4.23	75.29	44.88	0.477E-01	-0.219E-02	12.7263
2 5	2011 21 59 60.00	18 8 6.91828	-21 2 23.4199	0.887123359	-4.23	74.82	44.75	0.478E-01	-0.182E-02	12.7024

2	6	2011	21	59	60.00	18	12	59.86571	-21	4	40.2530	0.894502786	-4.22	74.35	44.62	0.480E-01	-0.145E-02	12.6782
2	7	2011	21	59	60.00	18	17	53.57545	-21	6	25.0355	0.901867575	-4.21	73.89	44.49	0.481E-01	-0.108E-02	12.6539
2	8	2011	21	59	60.00	18	22	47.99328	-21	7	37.4000	0.909217624	-4.21	73.42	44.36	0.482E-01	-0.699E-03	12.6294
2	9	2011	21	59	60.00	18	27	43.06512	-21	8	17.0094	0.916552840	-4.20	72.96	44.22	0.483E-01	-0.317E-03	12.6048
2	10	2011	21	59	60.00	18	32	38.73695	-21	8	23.5566	0.923873132	-4.19	72.51	44.09	0.483E-01	0.681E-04	12.5800
2	11	2011	21	59	60.00	18	37	34.95486	-21	7	56.7638	0.931178412	-4.19	72.05	43.95	0.484E-01	0.457E-03	12.5550
2	12	2011	21	59	60.00	18	42	31.66505	-21	6	56.3821	0.938468587	-4.18	71.60	43.80	0.485E-01	0.848E-03	12.5300
2	13	2011	21	59	60.00	18	47	28.81389	-21	5	22.1908	0.945743552	-4.18	71.15	43.66	0.486E-01	0.124E-02	12.5047
2	14	2011	21	59	60.00	18	52	26.34801	-21	3	13.9956	0.953003177	-4.17	70.71	43.51	0.486E-01	0.164E-02	12.4791
2	15	2011	21	59	60.00	18	57	24.21445	-21	0	31.6258	0.960247289	-4.17	70.26	43.36	0.487E-01	0.204E-02	12.4532
2	16	2011	21	59	60.00	19	2	22.36100	-20	57	14.9330	0.967475647	-4.16	69.82	43.21	0.488E-01	0.243E-02	12.4269
2	17	2011	21	59	60.00	19	7	20.73665	-20	53	23.7907	0.974687928	-4.16	69.38	43.05	0.488E-01	0.283E-02	12.3999
2	18	2011	21	59	60.00	19	12	19.29187	-20	48	58.0986	0.981883709	-4.15	68.95	42.90	0.489E-01	0.324E-02	12.3720
2	19	2011	21	59	60.00	19	17	17.97837	-20	43	57.7882	0.989062477	-4.14	68.51	42.74	0.489E-01	0.364E-02	12.3432
2	20	2011	21	59	60.00	19	22	16.74836	-20	38	22.8298	0.996223647	-4.14	68.08	42.58	0.489E-01	0.404E-02	12.3134
2	21	2011	21	59	60.00	19	27	15.55344	-20	32	13.2361	1.003366599	-4.13	67.65	42.41	0.490E-01	0.444E-02	12.2825
2	22	2011	21	59	60.00	19	32	14.34392	-20	25	29.0623	1.010490720	-4.13	67.22	42.25	0.490E-01	0.484E-02	12.2505
2	23	2011	21	59	60.00	19	37	13.06878	-20	18	10.4017	1.017595429	-4.12	66.80	42.08	0.490E-01	0.524E-02	12.2176
2	24	2011	21	59	60.00	19	42	11.67624	-20	10	17.3813	1.024680206	-4.12	66.37	41.91	0.490E-01	0.564E-02	12.1838
2	25	2011	21	59	60.00	19	47	10.11466	-20	1	50.1568	1.031744594	-4.11	65.95	41.74	0.490E-01	0.604E-02	12.1493
2	26	2011	21	59	60.00	19	52	8.33335	-19	52	48.9105	1.038788204	-4.11	65.53	41.57	0.490E-01	0.643E-02	12.1142
2	27	2011	21	59	60.00	19	57	6.28321	-19	43	13.8496	1.045810707	-4.10	65.11	41.40	0.490E-01	0.682E-02	12.0786
2	28	2011	21	59	60.00	20	2	3.91714	-19	33	5.2056	1.052811833	-4.10	64.70	41.22	0.490E-01	0.721E-02	12.0425
3	1	2011	21	59	60.00	20	7	1.19036	-19	22	23.2334	1.059791359	-4.09	64.29	41.05	0.490E-01	0.759E-02	12.0060
3	2	2011	21	59	60.00	20	11	58.06057	-19	11	8.2108	1.066749110	-4.09	63.87	40.87	0.490E-01	0.798E-02	11.9693
3	3	2011	21	59	60.00	20	16	54.48799	-18	59	20.4384	1.073684947	-4.09	63.46	40.69	0.490E-01	0.835E-02	11.9324
3	4	2011	21	59	60.00	20	21	50.43543	-18	47	0.2388	1.080598770	-4.08	63.05	40.51	0.490E-01	0.873E-02	11.8953
3	5	2011	21	59	60.00	20	26	45.86822	-18	34	7.9563	1.087490507	-4.08	62.65	40.32	0.489E-01	0.910E-02	11.8582
3	6	2011	21	59	60.00	20	31	40.75415	-18	20	43.9559	1.094360111	-4.07	62.24	40.14	0.489E-01	0.946E-02	11.8209
3	7	2011	21	59	60.00	20	36	35.06338	-18	6	48.6227	1.101207559	-4.07	61.84	39.96	0.489E-01	0.983E-02	11.7836
3	8	2011	21	59	60.00	20	41	28.76835	-17	52	22.3610	1.108032844	-4.06	61.43	39.77	0.488E-01	0.102E-01	11.7463
3	9	2011	21	59	60.00	20	46	21.84372	-17	37	25.5933	1.114835971	-4.06	61.03	39.58	0.488E-01	0.105E-01	11.7090
3	10	2011	21	59	60.00	20	51	14.26628	-17	21	58.7589	1.121616957	-4.06	60.63	39.39	0.488E-01	0.109E-01	11.6718
3	11	2011	21	59	60.00	20	56	6.01493	-17	6	2.3125	1.128375829	-4.05	60.23	39.20	0.487E-01	0.112E-01	11.6345
3	12	2011	21	59	60.00	21	0	57.07062	-16	49	36.7232	1.135112614	-4.05	59.83	39.01	0.487E-01	0.116E-01	11.5973
3	13	2011	21	59	60.00	21	5	47.41646	-16	32	42.4726	1.141827341	-4.04	59.44	38.81	0.486E-01	0.119E-01	11.5602
3	14	2011	21	59	60.00	21	10	37.03775	-16	15	20.0526	1.148520028	-4.04	59.04	38.62	0.486E-01	0.122E-01	11.5230
3	15	2011	21	59	60.00	21	15	25.92226	-15	57	29.9629	1.155190668	-4.04	58.65	38.42	0.485E-01	0.125E-01	11.4858
3	16	2011	21	59	60.00	21	20	14.06051	-15	39	12.7081	1.161839211	-4.03	58.25	38.23	0.485E-01	0.128E-01	11.4485
3	17	2011	21	59	60.00	21	25	1.44628	-15	20	28.7960	1.168465537	-4.03	57.86	38.03	0.484E-01	0.131E-01	11.4108
3	18	2011	21	59	60.00	21	29	48.07682	-15	1	18.7394	1.175069432	-4.02	57.47	37.83	0.483E-01	0.134E-01	11.3727
3	19	2011	21	59	60.00	21	34	33.95255	-14	41	43.0599	1.181650573	-4.02	57.08	37.63	0.483E-01	0.137E-01	11.3339
3	20	2011	21	59	60.00	21	39	19.07605	-14	21	42.2952	1.188208525	-4.02	56.69	37.42	0.482E-01	0.140E-01	11.2943
3	21	2011	21	59	60.00	21	44	3.45062	-14	1	17.0049	1.194742769	-4.01	56.30	37.22	0.482E-01	0.143E-01	11.2536
3	22	2011	21	59	60.00	21	48	47.07921	-13	40	27.7726	1.201252728	-4.01	55.91	37.02	0.481E-01	0.146E-01	11.2120
3	23	2011	21	59	60.00	21	53	29.96411	-13	19	15.2032	1.207737813	-4.01	55.53	36.81	0.481E-01	0.148E-01	11.1693
3	24	2011	21	59	60.00	21	58	12.10735	-12	57	39.9171	1.214197454	-4.00	55.14	36.60	0.480E-01	0.151E-01	11.1257
3	25	2011	21	59	60.00	22	2	53.51156	-12	35	42.5445	1.220631122	-4.00	54.76	36.40	0.479E-01	0.154E-01	11.0811
3	26	2011	21	59	60.00	22	7	34.18066	-12	13	23.7219	1.227038339	-4.00	54.38	36.19	0.479E-01	0.156E-01	11.0358
3	27	2011	21	59	60.00	22	12	14.12030	-11	50	44.0896	1.233418679	-3.99	53.99	35.98	0.478E-01	0.158E-01	10.9898
3	28	2011	21	59	60.00	22	16	53.33803	-11	27	44.2914	1.239771763	-3.99	53.61	35.77	0.478E-01	0.161E-01	10.9431
3	29	2011	21	59	60.00	22	21	31.84339	-11	4	24.9735	1.246097256	-3.99	53.23	35.55	0.477E-01	0.163E-01	10.8959
3	30	2011	21	59	60.00	22	26	9.64786	-10	40	46.7843	1.252394861	-3.99	52.85	35.34	0.477E-01	0.165E-01	10.8482

3	31	2011	21	59	60.00	22	30	46.76477	-10	16	50.3744	1.258664318	-3.98	52.47	35.13	0.476E-01	0.167E-01	10.8001
4	1	2011	21	59	60.00	22	35	23.20918	-09	52	36.3966	1.264905396	-3.98	52.09	34.91	0.475E-01	0.169E-01	10.7516
4	2	2011	21	59	60.00	22	39	58.99773	-09	28	5.5055	1.2711117897	-3.98	51.71	34.70	0.475E-01	0.171E-01	10.7027
4	3	2011	21	59	60.00	22	44	34.14852	-09	3	18.3577	1.277301654	-3.97	51.33	34.48	0.474E-01	0.173E-01	10.6536
4	4	2011	21	59	60.00	22	49	8.68094	-08	38	15.6113	1.283456527	-3.97	50.96	34.26	0.474E-01	0.175E-01	10.6043
4	5	2011	21	59	60.00	22	53	42.61560	-08	12	57.9262	1.289582404	-3.97	50.58	34.04	0.473E-01	0.176E-01	10.5547
4	6	2011	21	59	60.00	22	58	15.97416	-07	47	25.9630	1.295679199	-3.97	50.20	33.83	0.473E-01	0.178E-01	10.5051
4	7	2011	21	59	60.00	23	2	48.77928	-07	21	40.3836	1.301746847	-3.96	49.83	33.61	0.472E-01	0.180E-01	10.4553
4	8	2011	21	59	60.00	23	7	21.05459	-06	55	41.8501	1.307785304	-3.96	49.45	33.38	0.472E-01	0.181E-01	10.4054
4	9	2011	21	59	60.00	23	11	52.82464	-06	29	31.0240	1.313794544	-3.96	49.08	33.16	0.471E-01	0.182E-01	10.3556
4	10	2011	21	59	60.00	23	16	24.11504	-06	3	8.5658	1.319774552	-3.96	48.70	32.94	0.471E-01	0.184E-01	10.3057
4	11	2011	21	59	60.00	23	20	54.95263	-05	36	35.1332	1.325725319	-3.95	48.33	32.72	0.471E-01	0.185E-01	10.2557
4	12	2011	21	59	60.00	23	25	25.36572	-05	9	51.3795	1.331646833	-3.95	47.95	32.49	0.470E-01	0.186E-01	10.2058
4	13	2011	21	59	60.00	23	29	55.38449	-04	42	57.9521	1.337539062	-3.95	47.58	32.26	0.470E-01	0.187E-01	10.1557
4	14	2011	21	59	60.00	23	34	25.04128	-04	15	55.4905	1.343401935	-3.95	47.20	32.04	0.470E-01	0.188E-01	10.1055
4	15	2011	21	59	60.00	23	38	54.37077	-03	48	44.6270	1.349235314	-3.95	46.83	31.81	0.469E-01	0.189E-01	10.0549
4	16	2011	21	59	60.00	23	43	23.40960	-03	21	25.9888	1.355038972	-3.94	46.46	31.58	0.469E-01	0.190E-01	10.0039
4	17	2011	21	59	60.00	23	47	52.19540	-02	54	0.2047	1.360812570	-3.94	46.08	31.35	0.469E-01	0.191E-01	9.9521
4	18	2011	21	59	60.00	23	52	20.76560	-02	26	27.9112	1.366555662	-3.94	45.71	31.12	0.469E-01	0.192E-01	9.8996
4	19	2011	21	59	60.00	23	56	49.15631	-01	58	49.7584	1.372267704	-3.94	45.34	30.89	0.469E-01	0.192E-01	9.8459
4	20	2011	21	59	60.00	0	1	17.40209	-01	31	6.4106	1.377948085	-3.94	44.96	30.66	0.468E-01	0.193E-01	9.7912
4	21	2011	21	59	60.00	0	5	45.53624	-01	3	18.5428	1.383596168	-3.93	44.59	30.43	0.468E-01	0.193E-01	9.7354
4	22	2011	21	59	60.00	0	10	13.59155	-00	35	26.8366	1.389211315	-3.93	44.22	30.19	0.468E-01	0.194E-01	9.6785
4	23	2011	21	59	60.00	0	14	41.60087	-00	7	31.9755	1.394792911	-3.93	43.85	29.96	0.468E-01	0.194E-01	9.6206
4	24	2011	21	59	60.00	0	19	9.59743	+00	20	25.3567	1.400340377	-3.93	43.48	29.73	0.468E-01	0.194E-01	9.5617
4	25	2011	21	59	60.00	0	23	37.61490	+00	48	24.4771	1.405853172	-3.93	43.10	29.49	0.468E-01	0.194E-01	9.5019
4	26	2011	21	59	60.00	0	28	5.68740	+01	16	24.7040	1.411330790	-3.93	42.73	29.25	0.468E-01	0.195E-01	9.4412
4	27	2011	21	59	60.00	0	32	33.84944	+01	44	25.3564	1.416772760	-3.92	42.36	29.02	0.468E-01	0.195E-01	9.3798
4	28	2011	21	59	60.00	0	37	2.13578	+02	12	25.7541	1.422178643	-3.92	41.99	28.78	0.468E-01	0.194E-01	9.3176
4	29	2011	21	59	60.00	0	41	30.58131	+02	40	25.2174	1.427548028	-3.92	41.62	28.54	0.469E-01	0.194E-01	9.2548
4	30	2011	21	59	60.00	0	45	59.22088	+03	8	23.0659	1.432880535	-3.92	41.25	28.30	0.469E-01	0.194E-01	9.1913
5	1	2011	21	59	60.00	0	50	28.08923	+03	36	18.6190	1.438175813	-3.92	40.87	28.06	0.469E-01	0.194E-01	9.1273
5	2	2011	21	59	60.00	0	54	57.22087	+04	4	11.1953	1.443433544	-3.92	40.50	27.82	0.469E-01	0.193E-01	9.0627
5	3	2011	21	59	60.00	0	59	26.64991	+04	32	0.1120	1.448653448	-3.92	40.13	27.58	0.469E-01	0.193E-01	8.9977
5	4	2011	21	59	60.00	1	3	56.41005	+04	59	44.6849	1.453835277	-3.92	39.76	27.34	0.470E-01	0.192E-01	8.9323
5	5	2011	21	59	60.00	1	8	26.53452	+05	27	24.2281	1.458978826	-3.91	39.39	27.10	0.470E-01	0.192E-01	8.8665
5	6	2011	21	59	60.00	1	12	57.05614	+05	54	58.0539	1.464083926	-3.91	39.01	26.85	0.470E-01	0.191E-01	8.8006
5	7	2011	21	59	60.00	1	17	28.00744	+06	22	25.4733	1.469150441	-3.91	38.64	26.61	0.471E-01	0.190E-01	8.7344
5	8	2011	21	59	60.00	1	21	59.42093	+06	49	45.7966	1.474178272	-3.91	38.27	26.36	0.471E-01	0.189E-01	8.6681
5	9	2011	21	59	60.00	1	26	31.32935	+07	16	58.3346	1.479167340	-3.91	37.90	26.12	0.471E-01	0.188E-01	8.6017
5	10	2011	21	59	60.00	1	31	3.76599	+07	44	2.4003	1.484117587	-3.91	37.52	25.87	0.472E-01	0.187E-01	8.5352
5	11	2011	21	59	60.00	1	35	36.76504	+08	10	57.3102	1.489028958	-3.91	37.15	25.63	0.472E-01	0.186E-01	8.4686
5	12	2011	21	59	60.00	1	40	10.36168	+08	37	42.3860	1.493901386	-3.91	36.78	25.38	0.473E-01	0.185E-01	8.4019
5	13	2011	21	59	60.00	1	44	44.59202	+09	4	16.9549	1.498734769	-3.91	36.40	25.13	0.473E-01	0.184E-01	8.3350
5	14	2011	21	59	60.00	1	49	19.49260	+09	30	40.3480	1.503528952	-3.91	36.03	24.88	0.474E-01	0.183E-01	8.2677
5	15	2011	21	59	60.00	1	53	55.09956	+09	56	51.8967	1.508283694	-3.91	35.66	24.63	0.475E-01	0.181E-01	8.2000
5	16	2011	21	59	60.00	1	58	31.44770	+10	22	50.9275	1.512998660	-3.90	35.28	24.38	0.475E-01	0.180E-01	8.1316
5	17	2011	21	59	60.00	2	3	8.56977	+10	48	36.7567	1.517673414	-3.90	34.91	24.13	0.476E-01	0.178E-01	8.0624
5	18	2011	21	59	60.00	2	7	46.49626	+11	14	8.6882	1.522307430	-3.90	34.53	23.88	0.477E-01	0.176E-01	7.9922
5	19	2011	21	59	60.00	2	12	25.25577	+11	39	26.0147	1.526900113	-3.90	34.16	23.63	0.477E-01	0.175E-01	7.9210
5	20	2011	21	59	60.00	2	17	4.87543	+12	4	28.0208	1.531450832	-3.90	33.78	23.37	0.478E-01	0.173E-01	7.8487
5	21	2011	21	59	60.00	2	21	45.38136	+12	29	13.9872	1.535958942	-3.90	33.41	23.12	0.479E-01	0.171E-01	7.7752
5	22	2011	21	59	60.00	2	26	26.79870	+12	53	43.1932	1.540423805	-3.90	33.03	22.87	0.480E-01	0.169E-01	7.7007

5 23	2011	21	59	60.00	2 31	9.15157	+13	17	54.9185	1.544844802	-3.90	32.65	22.61	0.480E-01	0.167E-01	7.6252
5 24	2011	21	59	60.00	2 35	52.46297	+13	41	48.4439	1.549221341	-3.90	32.28	22.36	0.481E-01	0.165E-01	7.5487
5 25	2011	21	59	60.00	2 40	36.75458	+14	5	23.0514	1.553552854	-3.90	31.90	22.10	0.482E-01	0.163E-01	7.4712
5 26	2011	21	59	60.00	2 45	22.04667	+14	28	38.0251	1.557838803	-3.90	31.52	21.85	0.483E-01	0.160E-01	7.3929
5 27	2011	21	59	60.00	2 50	8.35789	+14	51	32.6504	1.562078672	-3.90	31.15	21.59	0.484E-01	0.158E-01	7.3137
5 28	2011	21	59	60.00	2 54	55.70518	+15	14	6.2146	1.566271973	-3.90	30.77	21.33	0.485E-01	0.155E-01	7.2337
5 29	2011	21	59	60.00	2 59	44.10351	+15	36	18.0070	1.570418244	-3.90	30.39	21.08	0.486E-01	0.153E-01	7.1529
5 30	2011	21	59	60.00	3 4	33.56587	+15	58	7.3188	1.574517055	-3.90	30.01	20.82	0.487E-01	0.150E-01	7.0714
5 31	2011	21	59	60.00	3 9	24.10298	+16	19	33.4434	1.578568012	-3.90	29.63	20.56	0.488E-01	0.147E-01	6.9894
6 1	2011	21	59	60.00	3 14	15.72329	+16	40	35.6761	1.582570764	-3.90	29.26	20.30	0.488E-01	0.145E-01	6.9067
6 2	2011	21	59	60.00	3 19	8.43287	+17	1	13.3144	1.586525009	-3.90	28.88	20.04	0.489E-01	0.142E-01	6.8236
6 3	2011	21	59	60.00	3 24	2.23561	+17	21	25.6577	1.590430502	-3.90	28.50	19.78	0.490E-01	0.139E-01	6.7402
6 4	2011	21	59	60.00	3 28	57.13344	+17	41	12.0080	1.594287051	-3.90	28.12	19.52	0.491E-01	0.136E-01	6.6564
6 5	2011	21	59	60.00	3 33	53.12673	+18	0	31.6712	1.598094524	-3.90	27.74	19.26	0.492E-01	0.133E-01	6.5725
6 6	2011	21	59	60.00	3 38	50.21467	+18	19	23.9594	1.601852838	-3.90	27.36	19.00	0.493E-01	0.129E-01	6.4886
6 7	2011	21	59	60.00	3 43	48.39565	+18	37	48.1930	1.605561951	-3.90	26.98	18.74	0.494E-01	0.126E-01	6.4046
6 8	2011	21	59	60.00	3 48	47.66741	+18	55	43.7037	1.609221853	-3.90	26.60	18.48	0.495E-01	0.123E-01	6.3206
6 9	2011	21	59	60.00	3 53	48.02696	+19	13	9.8359	1.612832544	-3.90	26.21	18.21	0.496E-01	0.119E-01	6.2366
6 10	2011	21	59	60.00	3 58	49.47027	+19	30	5.9484	1.616394021	-3.90	25.83	17.95	0.497E-01	0.116E-01	6.1527
6 11	2011	21	59	60.00	4 3	51.99168	+19	46	31.4139	1.619906252	-3.90	25.45	17.69	0.498E-01	0.112E-01	6.0686
6 12	2011	21	59	60.00	4 8	55.58324	+20	2	25.6171	1.623369159	-3.90	25.07	17.42	0.499E-01	0.109E-01	5.9844
6 13	2011	21	59	60.00	4 14	0.23415	+20	17	47.9518	1.626782595	-3.90	24.68	17.16	0.499E-01	0.105E-01	5.8999
6 14	2011	21	59	60.00	4 19	5.93045	+20	32	37.8183	1.630146334	-3.90	24.30	16.89	0.500E-01	0.101E-01	5.8149
6 15	2011	21	59	60.00	4 24	12.65512	+20	46	54.6220	1.633460067	-3.90	23.92	16.63	0.501E-01	0.971E-02	5.7294
6 16	2011	21	59	60.00	4 29	20.38841	+21	0	37.7742	1.636723412	-3.90	23.53	16.36	0.502E-01	0.932E-02	5.6431
6 17	2011	21	59	60.00	4 34	29.10824	+21	13	46.6955	1.639935923	-3.90	23.15	16.09	0.503E-01	0.892E-02	5.5561
6 18	2011	21	59	60.00	4 39	38.79047	+21	26	20.8190	1.643097115	-3.90	22.76	15.83	0.504E-01	0.851E-02	5.4682
6 19	2011	21	59	60.00	4 44	49.40887	+21	38	19.5944	1.646206483	-3.90	22.38	15.56	0.504E-01	0.810E-02	5.3794
6 20	2011	21	59	60.00	4 50	0.93510	+21	49	42.4895	1.649263514	-3.90	21.99	15.29	0.505E-01	0.768E-02	5.2898
6 21	2011	21	59	60.00	4 55	13.33852	+22	0	28.9932	1.652267706	-3.90	21.61	15.03	0.506E-01	0.726E-02	5.1993
6 22	2011	21	59	60.00	5 0	26.58616	+22	10	38.6155	1.655218566	-3.90	21.22	14.76	0.507E-01	0.683E-02	5.1080
6 23	2011	21	59	60.00	5 5	40.64263	+22	20	10.8894	1.658115620	-3.90	20.84	14.49	0.507E-01	0.639E-02	5.0159
6 24	2011	21	59	60.00	5 10	55.47015	+22	29	5.3709	1.660958411	-3.90	20.45	14.22	0.508E-01	0.595E-02	4.9231
6 25	2011	21	59	60.00	5 16	11.02852	+22	37	21.6398	1.663746500	-3.90	20.07	13.95	0.509E-01	0.550E-02	4.8295
6 26	2011	21	59	60.00	5 21	27.27513	+22	44	59.3006	1.666479469	-3.90	19.68	13.68	0.509E-01	0.505E-02	4.7352
6 27	2011	21	59	60.00	5 26	44.16495	+22	51	57.9833	1.669156919	-3.90	19.29	13.41	0.510E-01	0.460E-02	4.6403
6 28	2011	21	59	60.00	5 32	1.65050	+22	58	17.3433	1.671778482	-3.90	18.91	13.15	0.510E-01	0.414E-02	4.5448
6 29	2011	21	59	60.00	5 37	19.68189	+23	3	57.0624	1.674343827	-3.90	18.52	12.88	0.511E-01	0.368E-02	4.4487
6 30	2011	21	59	60.00	5 42	38.20697	+23	8	56.8476	1.676852667	-3.90	18.14	12.61	0.511E-01	0.322E-02	4.3522
7 1	2011	21	59	60.00	5 47	57.17164	+23	13	16.4312	1.679304780	-3.90	17.75	12.34	0.512E-01	0.275E-02	4.2554
7 2	2011	21	59	60.00	5 53	16.52044	+23	16	55.5698	1.681700009	-3.90	17.36	12.07	0.512E-01	0.228E-02	4.1584
7 3	2011	21	59	60.00	5 58	36.19727	+23	19	54.0454	1.684038277	-3.90	16.97	11.80	0.512E-01	0.181E-02	4.0613
7 4	2011	21	59	60.00	6 3	56.14606	+23	22	11.6665	1.686319585	-3.90	16.59	11.52	0.512E-01	0.133E-02	3.9643
7 5	2011	21	59	60.00	6 9	16.31137	+23	23	48.2710	1.688544004	-3.90	16.20	11.25	0.513E-01	0.857E-03	3.8675
7 6	2011	21	59	60.00	6 14	36.63857	+23	24	43.7278	1.690711665	-3.90	15.81	10.98	0.513E-01	0.380E-03	3.7710
7 7	2011	21	59	60.00	6 19	57.07378	+23	24	57.9391	1.692822735	-3.90	15.42	10.71	0.513E-01	-0.982E-04	3.6748
7 8	2011	21	59	60.00	6 25	17.56345	+23	24	30.8405	1.694877404	-3.90	15.04	10.44	0.513E-01	-0.577E-03	3.5789
7 9	2011	21	59	60.00	6 30	38.05410	+23	23	22.4004	1.696875858	-3.91	14.65	10.17	0.513E-01	-0.106E-02	3.4833
7 10	2011	21	59	60.00	6 35	58.49195	+23	21	32.6175	1.698818260	-3.91	14.26	9.90	0.513E-01	-0.153E-02	3.3880
7 11	2011	21	59	60.00	6 41	18.82287	+23	19	1.5188	1.700704736	-3.91	13.87	9.63	0.513E-01	-0.201E-02	3.2929
7 12	2011	21	59	60.00	6 46	38.99263	+23	15	49.1564	1.702535357	-3.91	13.49	9.36	0.513E-01	-0.249E-02	3.1978
7 13	2011	21	59	60.00	6 51	58.94725	+23	11	55.6065	1.704310134	-3.91	13.10	9.08	0.513E-01	-0.297E-02	3.1027
7 14	2011	21	59	60.00	6 57	18.63350	+23	7	20.9692	1.706029013	-3.91	12.71	8.81	0.512E-01	-0.344E-02	3.0075

7 15	2011 21 59 60.00	7 2	37.99931	+23 2	5.3692	1.707691883	-3.91	12.32	8.54	0.512E-01	-0.392E-02	2.9120
7 16	2011 21 59 60.00	7 7	56.99402	+22 56	8.9579	1.709298580	-3.91	11.94	8.27	0.512E-01	-0.439E-02	2.8162
7 17	2011 21 59 60.00	7 13	15.56838	+22 49	31.9150	1.710848904	-3.91	11.55	8.00	0.512E-01	-0.486E-02	2.7200
7 18	2011 21 59 60.00	7 18	33.67458	+22 42	14.4495	1.712342626	-3.91	11.16	7.73	0.511E-01	-0.533E-02	2.6234
7 19	2011 21 59 60.00	7 23	51.26610	+22 34	16.8004	1.713779507	-3.91	10.78	7.46	0.511E-01	-0.579E-02	2.5264
7 20	2011 21 59 60.00	7 29	8.29768	+22 25	39.2366	1.715159297	-3.91	10.39	7.19	0.511E-01	-0.625E-02	2.4290
7 21	2011 21 59 60.00	7 34	24.72532	+22 16	22.0563	1.716481753	-3.91	10.01	6.91	0.510E-01	-0.671E-02	2.3311
7 22	2011 21 59 60.00	7 39	40.50630	+22 6	25.5865	1.717746632	-3.91	9.62	6.64	0.510E-01	-0.716E-02	2.2328
7 23	2011 21 59 60.00	7 44	55.59925	+21 55	50.1816	1.718953698	-3.91	9.24	6.37	0.509E-01	-0.761E-02	2.1341
7 24	2011 21 59 60.00	7 50	9.96415	+21 44	36.2228	1.720102719	-3.91	8.86	6.11	0.509E-01	-0.805E-02	2.0350
7 25	2011 21 59 60.00	7 55	23.56231	+21 32	44.1177	1.721193475	-3.91	8.47	5.84	0.508E-01	-0.849E-02	1.9355
7 26	2011 21 59 60.00	8 0	36.35636	+21 20	14.2990	1.722225753	-3.91	8.09	5.57	0.507E-01	-0.893E-02	1.8356
7 27	2011 21 59 60.00	8 5	48.31020	+21 7	7.2240	1.723199357	-3.91	7.71	5.30	0.507E-01	-0.935E-02	1.7354
7 28	2011 21 59 60.00	8 10	59.38907	+20 53	23.3724	1.724114122	-3.91	7.33	5.03	0.506E-01	-0.978E-02	1.6350
7 29	2011 21 59 60.00	8 16	9.55976	+20 39	3.2440	1.724969924	-3.91	6.96	4.77	0.505E-01	-0.102E-01	1.5344
7 30	2011 21 59 60.00	8 21	18.79104	+20 24	7.3557	1.725766701	-3.91	6.58	4.50	0.505E-01	-0.106E-01	1.4337
7 31	2011 21 59 60.00	8 26	27.05432	+20 8	36.2394	1.726504471	-3.91	6.21	4.24	0.504E-01	-0.110E-01	1.3331
8 1	2011 21 59 60.00	8 31	34.32432	+19 52	30.4411	1.727183344	-3.91	5.83	3.98	0.503E-01	-0.114E-01	1.2328
8 2	2011 21 59 60.00	8 36	40.57934	+19 35	50.5210	1.727803526	-3.91	5.46	3.72	0.502E-01	-0.118E-01	1.1329
8 3	2011 21 59 60.00	8 41	45.80124	+19 18	37.0548	1.728365311	-3.91	5.10	3.46	0.501E-01	-0.122E-01	1.0336
8 4	2011 21 59 60.00	8 46	49.97497	+19 0	50.6345	1.728869064	-3.91	4.74	3.21	0.501E-01	-0.126E-01	0.9349
8 5	2011 21 59 60.00	8 51	53.08803	+18 42	31.8678	1.729315194	-3.91	4.38	2.96	0.500E-01	-0.129E-01	0.8370
8 6	2011 21 59 60.00	8 56	55.13004	+18 23	41.3767	1.729704132	-3.92	4.03	2.72	0.499E-01	-0.133E-01	0.7398
8 7	2011 21 59 60.00	9 1	56.09265	+18 4	19.7943	1.730036309	-3.92	3.69	2.48	0.498E-01	-0.137E-01	0.6433
8 8	2011 21 59 60.00	9 6	55.96953	+17 44	27.7627	1.730312134	-3.92	3.35	2.25	0.497E-01	-0.140E-01	0.5474
8 9	2011 21 59 60.00	9 11	54.75664	+17 24	5.9297	1.730531983	-3.92	3.04	2.03	0.496E-01	-0.143E-01	0.4522
8 10	2011 21 59 60.00	9 16	52.45248	+17 3	14.9479	1.730696193	-3.92	2.73	1.82	0.495E-01	-0.147E-01	0.3575
8 11	2011 21 59 60.00	9 21	49.05829	+16 41	55.4729	1.730805050	-3.92	2.46	1.64	0.494E-01	-0.150E-01	0.2632
8 12	2011 21 59 60.00	9 26	44.57815	+16 20	8.1634	1.730858794	-3.92	2.22	1.48	0.494E-01	-0.153E-01	0.1693
8 13	2011 21 59 60.00	9 31	39.01883	+15 57	53.6803	1.730857617	-3.92	2.02	1.36	0.493E-01	-0.156E-01	0.0757
8 14	2011 21 59 60.00	9 36	32.38945	+15 35	12.6884	1.730801667	-3.92	1.88	1.30	0.492E-01	-0.159E-01	-0.0178
8 15	2011 21 59 60.00	9 41	24.70108	+15 12	5.8598	1.730691056	-3.92	1.82	1.28	0.491E-01	-0.162E-01	-0.1110
8 16	2011 21 59 60.00	9 46	15.96662	+14 48	33.8788	1.730525866	-3.92	1.84	1.33	0.490E-01	-0.165E-01	-0.2042
8 17	2011 21 59 60.00	9 51	6.20089	+14 24	37.4421	1.730306153	-3.92	1.94	1.43	0.489E-01	-0.168E-01	-0.2974
8 18	2011 21 59 60.00	9 55	55.42063	+14 0	17.2542	1.730031957	-3.92	2.10	1.56	0.488E-01	-0.171E-01	-0.3904
8 19	2011 21 59 60.00	10 0	43.64411	+13 35	34.0231	1.729703306	-3.92	2.32	1.74	0.488E-01	-0.173E-01	-0.4835
8 20	2011 21 59 60.00	10 5	30.89088	+13 10	28.4605	1.729320212	-3.92	2.57	1.93	0.487E-01	-0.176E-01	-0.5766
8 21	2011 21 59 60.00	10 10	17.18152	+12 45	1.2823	1.728882680	-3.91	2.86	2.14	0.486E-01	-0.178E-01	-0.6697
8 22	2011 21 59 60.00	10 15	2.53755	+12 19	13.2102	1.728390704	-3.91	3.16	2.37	0.485E-01	-0.181E-01	-0.7628
8 23	2011 21 59 60.00	10 19	46.98130	+11 53	4.9713	1.727844266	-3.91	3.48	2.60	0.485E-01	-0.183E-01	-0.8560
8 24	2011 21 59 60.00	10 24	30.53578	+11 26	37.2980	1.727243339	-3.91	3.81	2.84	0.484E-01	-0.185E-01	-0.9493
8 25	2011 21 59 60.00	10 29	13.22470	+10 59	50.9280	1.726587896	-3.91	4.15	3.09	0.483E-01	-0.187E-01	-1.0426
8 26	2011 21 59 60.00	10 33	55.07245	+10 32	46.6022	1.725877917	-3.91	4.50	3.33	0.482E-01	-0.189E-01	-1.1360
8 27	2011 21 59 60.00	10 38	36.10443	+10 5	25.0627	1.725113412	-3.91	4.85	3.59	0.482E-01	-0.191E-01	-1.2294
8 28	2011 21 59 60.00	10 43	16.34737	+09 37	47.0509	1.724294440	-3.91	5.20	3.84	0.481E-01	-0.193E-01	-1.3226
8 29	2011 21 59 60.00	10 47	55.82984	+09 9	53.3049	1.723421141	-3.91	5.56	4.10	0.480E-01	-0.195E-01	-1.4155
8 30	2011 21 59 60.00	10 52	34.58227	+08 41	44.5598	1.722493754	-3.91	5.92	4.35	0.480E-01	-0.196E-01	-1.5079
8 31	2011 21 59 60.00	10 57	12.63663	+08 13	21.5494	1.721512623	-3.91	6.28	4.61	0.479E-01	-0.198E-01	-1.5996
9 1	2011 21 59 60.00	11 1	50.02584	+07 44	45.0081	1.720478192	-3.91	6.64	4.87	0.479E-01	-0.200E-01	-1.6905
9 2	2011 21 59 60.00	11 6	26.78329	+07 15	55.6721	1.719390982	-3.91	7.00	5.13	0.478E-01	-0.201E-01	-1.7805
9 3	2011 21 59 60.00	11 11	2.94271	+06 46	54.2788	1.718251566	-3.91	7.37	5.40	0.478E-01	-0.202E-01	-1.8695
9 4	2011 21 59 60.00	11 15	38.53837	+06 17	41.5645	1.717060534	-3.91	7.73	5.66	0.477E-01	-0.204E-01	-1.9575
9 5	2011 21 59 60.00	11 20	13.60541	+05 48	18.2624	1.715818478	-3.91	8.10	5.92	0.477E-01	-0.205E-01	-2.0445

9	6	2011	21	59	60.00	11	24	48.18020	+05	18	45.1016	1.714525969	-3.91	8.46	6.18	0.476E-01	-0.206E-01	-2.1305
9	7	2011	21	59	60.00	11	29	22.30041	+04	49	2.8060	1.713183551	-3.91	8.83	6.44	0.476E-01	-0.207E-01	-2.2157
9	8	2011	21	59	60.00	11	33	56.00511	+04	19	12.0955	1.711791733	-3.91	9.20	6.71	0.476E-01	-0.208E-01	-2.3000
9	9	2011	21	59	60.00	11	38	29.33471	+03	49	13.6859	1.710350983	-3.91	9.56	6.97	0.475E-01	-0.209E-01	-2.3835
9	10	2011	21	59	60.00	11	43	2.33078	+03	19	8.2901	1.708861734	-3.91	9.93	7.23	0.475E-01	-0.209E-01	-2.4664
9	11	2011	21	59	60.00	11	47	35.03588	+02	48	56.6192	1.707324376	-3.91	10.29	7.50	0.475E-01	-0.210E-01	-2.5486
9	12	2011	21	59	60.00	11	52	7.49327	+02	18	39.3841	1.705739260	-3.90	10.66	7.76	0.474E-01	-0.211E-01	-2.6303
9	13	2011	21	59	60.00	11	56	39.74672	+01	48	17.2960	1.704106703	-3.90	11.02	8.02	0.474E-01	-0.211E-01	-2.7115
9	14	2011	21	59	60.00	12	1	11.84023	+01	17	51.0682	1.702426982	-3.90	11.39	8.28	0.474E-01	-0.212E-01	-2.7923
9	15	2011	21	59	60.00	12	5	43.81784	+00	47	21.4165	1.700700345	-3.90	11.75	8.55	0.474E-01	-0.212E-01	-2.8726
9	16	2011	21	59	60.00	12	10	15.72355	+00	16	49.0598	1.698927010	-3.90	12.12	8.81	0.474E-01	-0.212E-01	-2.9526
9	17	2011	21	59	60.00	12	14	47.60115	-00	13	45.2794	1.697107164	-3.90	12.48	9.07	0.474E-01	-0.212E-01	-3.0324
9	18	2011	21	59	60.00	12	19	19.49418	-00	44	20.8748	1.695240969	-3.90	12.85	9.33	0.474E-01	-0.212E-01	-3.1118
9	19	2011	21	59	60.00	12	23	51.44581	-01	14	56.9956	1.693328560	-3.90	13.21	9.59	0.474E-01	-0.212E-01	-3.1911
9	20	2011	21	59	60.00	12	28	23.49880	-01	45	32.9060	1.691370040	-3.90	13.57	9.86	0.474E-01	-0.212E-01	-3.2703
9	21	2011	21	59	60.00	12	32	55.69546	-02	16	7.8655	1.689365484	-3.90	13.93	10.12	0.474E-01	-0.212E-01	-3.3494
9	22	2011	21	59	60.00	12	37	28.07764	-02	46	41.1280	1.687314935	-3.90	14.29	10.38	0.475E-01	-0.212E-01	-3.4284
9	23	2011	21	59	60.00	12	42	0.68685	-03	17	11.9430	1.685218413	-3.90	14.65	10.64	0.475E-01	-0.212E-01	-3.5074
9	24	2011	21	59	60.00	12	46	33.56439	-03	47	39.5558	1.683075923	-3.90	15.01	10.90	0.475E-01	-0.211E-01	-3.5864
9	25	2011	21	59	60.00	12	51	6.75157	-04	18	3.2105	1.680887475	-3.90	15.37	11.16	0.475E-01	-0.211E-01	-3.6654
9	26	2011	21	59	60.00	12	55	40.28989	-04	48	22.1517	1.678653115	-3.90	15.73	11.42	0.476E-01	-0.210E-01	-3.7443
9	27	2011	21	59	60.00	13	0	14.22078	-05	18	35.6255	1.676372959	-3.90	16.09	11.67	0.476E-01	-0.209E-01	-3.8228
9	28	2011	21	59	60.00	13	4	48.58508	-05	48	42.8783	1.674047216	-3.90	16.45	11.93	0.476E-01	-0.209E-01	-3.9010
9	29	2011	21	59	60.00	13	9	23.42238	-06	18	43.1534	1.671676209	-3.90	16.80	12.19	0.477E-01	-0.208E-01	-3.9785
9	30	2011	21	59	60.00	13	13	58.77076	-06	48	35.6890	1.669260364	-3.90	17.16	12.45	0.477E-01	-0.207E-01	-4.0552
10	1	2011	21	59	60.00	13	18	34.66706	-07	18	19.7172	1.666800190	-3.90	17.52	12.71	0.478E-01	-0.206E-01	-4.1309
10	2	2011	21	59	60.00	13	23	11.14755	-07	47	54.4668	1.664296251	-3.90	17.87	12.96	0.478E-01	-0.205E-01	-4.2057
10	3	2011	21	59	60.00	13	27	48.24856	-08	17	19.1657	1.661749135	-3.90	18.23	13.22	0.479E-01	-0.203E-01	-4.2794
10	4	2011	21	59	60.00	13	32	26.00684	-08	46	33.0427	1.659159430	-3.90	18.58	13.48	0.479E-01	-0.202E-01	-4.3521
10	5	2011	21	59	60.00	13	37	4.45956	-09	15	35.3285	1.656527712	-3.90	18.94	13.73	0.480E-01	-0.201E-01	-4.4239
10	6	2011	21	59	60.00	13	41	43.64415	-09	44	25.2549	1.653854532	-3.90	19.29	13.99	0.480E-01	-0.199E-01	-4.4947
10	7	2011	21	59	60.00	13	46	23.59807	-10	13	2.0546	1.651140413	-3.90	19.64	14.24	0.481E-01	-0.198E-01	-4.5646
10	8	2011	21	59	60.00	13	51	4.35862	-10	41	24.9606	1.648385848	-3.90	20.00	14.50	0.482E-01	-0.196E-01	-4.6337
10	9	2011	21	59	60.00	13	55	45.96264	-11	9	33.2051	1.645591300	-3.90	20.35	14.75	0.482E-01	-0.194E-01	-4.7021
10	10	2011	21	59	60.00	14	0	28.44630	-11	37	26.0193	1.642757195	-3.90	20.70	15.01	0.483E-01	-0.192E-01	-4.7697
10	11	2011	21	59	60.00	14	5	11.84485	-12	5	2.6325	1.639883928	-3.90	21.05	15.26	0.484E-01	-0.190E-01	-4.8367
10	12	2011	21	59	60.00	14	9	56.19240	-12	32	22.2714	1.636971858	-3.90	21.40	15.51	0.485E-01	-0.188E-01	-4.9030
10	13	2011	21	59	60.00	14	14	41.52171	-12	59	24.1596	1.634021307	-3.90	21.75	15.77	0.486E-01	-0.186E-01	-4.9689
10	14	2011	21	59	60.00	14	19	27.86403	-13	26	7.5168	1.631032560	-3.90	22.10	16.02	0.486E-01	-0.184E-01	-5.0342
10	15	2011	21	59	60.00	14	24	15.24895	-13	52	31.5592	1.628005864	-3.90	22.45	16.27	0.487E-01	-0.182E-01	-5.0992
10	16	2011	21	59	60.00	14	29	3.70430	-14	18	35.4987	1.624941426	-3.90	22.80	16.52	0.488E-01	-0.179E-01	-5.1639
10	17	2011	21	59	60.00	14	33	53.25610	-14	44	18.5431	1.621839414	-3.90	23.14	16.77	0.489E-01	-0.177E-01	-5.2283
10	18	2011	21	59	60.00	14	38	43.92843	-15	9	39.8960	1.618699955	-3.90	23.49	17.02	0.490E-01	-0.174E-01	-5.2925
10	19	2011	21	59	60.00	14	43	35.74350	-15	34	38.7573	1.615523131	-3.90	23.84	17.27	0.491E-01	-0.172E-01	-5.3565
10	20	2011	21	59	60.00	14	48	28.72160	-15	59	14.3240	1.612308979	-3.90	24.18	17.52	0.492E-01	-0.169E-01	-5.4206
10	21	2011	21	59	60.00	14	53	22.88123	-16	23	25.7910	1.609057487	-3.90	24.53	17.77	0.493E-01	-0.166E-01	-5.4847
10	22	2011	21	59	60.00	14	58	18.23907	-16	47	12.3531	1.605768602	-3.90	24.87	18.02	0.494E-01	-0.163E-01	-5.5489
10	23	2011	21	59	60.00	15	3	14.81002	-17	10	33.2072	1.602442237	-3.90	25.22	18.26	0.495E-01	-0.160E-01	-5.6133
10	24	2011	21	59	60.00	15	8	12.60699	-17	33	27.5560	1.599078291	-3.90	25.56	18.51	0.496E-01	-0.157E-01	-5.6778
10	25	2011	21	59	60.00	15	13	11.64032	-17	55	54.6105	1.595676684	-3.90	25.91	18.76	0.497E-01	-0.154E-01	-5.7424
10	26	2011	21	59	60.00	15	18	11.91699	-18	17	53.5899	1.592237389	-3.90	26.25	19.00	0.498E-01	-0.150E-01	-5.8070
10	27	2011	21	59	60.00	15	23	13.43986	-18	39	23.7190	1.588760464	-3.90	26.59	19.25	0.499E-01	-0.147E-01	-5.8714
10	28	2011	21	59	60.00	15	28	16.20752	-19	0	24.2254	1.585246075	-3.90	26.94	19.50	0.500E-01	-0.144E-01	-5.9354

10	29	2011	21	59	60.00	15	33	20.21483	-19	20	54.3382	1.581694495	-3.90	27.28	19.74	0.501E-01	-0.140E-01	-5.9988
10	30	2011	21	59	60.00	15	38	25.45403	-19	40	53.2892	1.578106081	-3.91	27.62	19.98	0.502E-01	-0.136E-01	-6.0616
10	31	2011	21	59	60.00	15	43	31.91561	-20	0	20.3173	1.5744481252	-3.91	27.96	20.23	0.503E-01	-0.133E-01	-6.1235
11	1	2011	21	59	60.00	15	48	39.58885	-20	19	14.6718	1.570820459	-3.91	28.30	20.47	0.504E-01	-0.129E-01	-6.1847
11	2	2011	21	59	60.00	15	53	48.46165	-20	37	35.6156	1.567124165	-3.91	28.65	20.71	0.505E-01	-0.125E-01	-6.2450
11	3	2011	21	59	60.00	15	58	58.52029	-20	55	22.4264	1.563392824	-3.91	28.99	20.96	0.506E-01	-0.121E-01	-6.3046
11	4	2011	21	59	60.00	16	4	9.74905	-21	12	34.3977	1.559626881	-3.91	29.33	21.20	0.507E-01	-0.117E-01	-6.3633
11	5	2011	21	59	60.00	16	9	22.13003	-21	29	10.8388	1.555826760	-3.91	29.67	21.44	0.508E-01	-0.113E-01	-6.4214
11	6	2011	21	59	60.00	16	14	35.64287	-21	45	11.0752	1.551992867	-3.91	30.01	21.68	0.508E-01	-0.108E-01	-6.4787
11	7	2011	21	59	60.00	16	19	50.26463	-22	0	34.4499	1.548125585	-3.91	30.35	21.92	0.509E-01	-0.104E-01	-6.5354
11	8	2011	21	59	60.00	16	25	5.96964	-22	15	20.3235	1.544225276	-3.91	30.69	22.16	0.510E-01	-0.996E-02	-6.5914
11	9	2011	21	59	60.00	16	30	22.72936	-22	29	28.0750	1.540292276	-3.91	31.03	22.40	0.511E-01	-0.952E-02	-6.6469
11	10	2011	21	59	60.00	16	35	40.51237	-22	42	57.1022	1.536326893	-3.91	31.37	22.64	0.512E-01	-0.907E-02	-6.7019
11	11	2011	21	59	60.00	16	40	59.28429	-22	55	46.8224	1.532329401	-3.91	31.71	22.88	0.512E-01	-0.861E-02	-6.7564
11	12	2011	21	59	60.00	16	46	19.00777	-23	7	56.6726	1.528300039	-3.92	32.05	23.12	0.513E-01	-0.814E-02	-6.8105
11	13	2011	21	59	60.00	16	51	39.64255	-23	19	26.1104	1.524239006	-3.92	32.39	23.35	0.514E-01	-0.767E-02	-6.8643
11	14	2011	21	59	60.00	16	57	1.14561	-23	30	14.6142	1.520146455	-3.92	32.73	23.59	0.514E-01	-0.719E-02	-6.9178
11	15	2011	21	59	60.00	17	2	23.47127	-23	40	21.6842	1.516022492	-3.92	33.07	23.83	0.515E-01	-0.671E-02	-6.9712
11	16	2011	21	59	60.00	17	7	46.57143	-23	49	46.8436	1.511867171	-3.92	33.41	24.06	0.516E-01	-0.622E-02	-7.0245
11	17	2011	21	59	60.00	17	13	10.39581	-23	58	29.6400	1.507680491	-3.92	33.74	24.30	0.516E-01	-0.572E-02	-7.0779
11	18	2011	21	59	60.00	17	18	34.89216	-24	6	29.6477	1.503462397	-3.92	34.08	24.53	0.517E-01	-0.522E-02	-7.1313
11	19	2011	21	59	60.00	17	24	0.00650	-24	13	46.4702	1.499212775	-3.92	34.42	24.77	0.517E-01	-0.472E-02	-7.1851
11	20	2011	21	59	60.00	17	29	25.68309	-24	20	19.7430	1.494931458	-3.92	34.76	25.00	0.517E-01	-0.422E-02	-7.2391
11	21	2011	21	59	60.00	17	34	51.86428	-24	26	9.1381	1.490618236	-3.93	35.10	25.23	0.518E-01	-0.370E-02	-7.2935
11	22	2011	21	59	60.00	17	40	18.49002	-24	31	14.3663	1.486272875	-3.93	35.44	25.46	0.518E-01	-0.319E-02	-7.3483
11	23	2011	21	59	60.00	17	45	45.49719	-24	35	35.1791	1.481895149	-3.93	35.78	25.69	0.518E-01	-0.267E-02	-7.4034
11	24	2011	21	59	60.00	17	51	12.81911	-24	39	11.3665	1.477484868	-3.93	36.12	25.93	0.518E-01	-0.216E-02	-7.4589
11	25	2011	21	59	60.00	17	56	40.38563	-24	42	2.7538	1.473041917	-3.93	36.46	26.16	0.519E-01	-0.164E-02	-7.5144
11	26	2011	21	59	60.00	18	2	8.12401	-24	44	9.1975	1.468566274	-3.93	36.80	26.39	0.519E-01	-0.111E-02	-7.5698
11	27	2011	21	59	60.00	18	7	35.96036	-24	45	30.5841	1.464058011	-3.93	37.14	26.62	0.519E-01	-0.590E-03	-7.6251
11	28	2011	21	59	60.00	18	13	3.82096	-24	46	6.8306	1.459517290	-3.94	37.48	26.84	0.519E-01	-0.667E-04	-7.6800
11	29	2011	21	59	60.00	18	18	31.63314	-24	45	57.8870	1.454944337	-3.94	37.82	27.07	0.518E-01	0.457E-03	-7.7344
11	30	2011	21	59	60.00	18	23	59.32553	-24	45	3.7392	1.450339421	-3.94	38.16	27.30	0.518E-01	0.981E-03	-7.7884
12	1	2011	21	59	60.00	18	29	26.82799	-24	43	24.4104	1.445702831	-3.94	38.50	27.53	0.518E-01	0.150E-02	-7.8418
12	2	2011	21	59	60.00	18	34	54.07148	-24	40	59.9612	1.441034870	-3.94	38.85	27.76	0.518E-01	0.203E-02	-7.8947
12	3	2011	21	59	60.00	18	40	20.98801	-24	37	50.4894	1.436335837	-3.94	39.19	27.98	0.517E-01	0.255E-02	-7.9470
12	4	2011	21	59	60.00	18	45	47.51059	-24	33	56.1293	1.431606028	-3.95	39.53	28.21	0.517E-01	0.307E-02	-7.9989
12	5	2011	21	59	60.00	18	51	13.57335	-24	29	17.0504	1.426845733	-3.95	39.87	28.43	0.516E-01	0.358E-02	-8.0502
12	6	2011	21	59	60.00	18	56	39.11156	-24	23	53.4575	1.422055236	-3.95	40.22	28.66	0.516E-01	0.410E-02	-8.1011
12	7	2011	21	59	60.00	19	2	4.06181	-24	17	45.5889	1.417234810	-3.95	40.56	28.88	0.515E-01	0.461E-02	-8.1515
12	8	2011	21	59	60.00	19	7	28.36209	-24	10	53.7159	1.412384718	-3.95	40.91	29.10	0.515E-01	0.512E-02	-8.2014
12	9	2011	21	59	60.00	19	12	51.95191	-24	3	18.1410	1.407505207	-3.96	41.25	29.33	0.514E-01	0.562E-02	-8.2509
12	10	2011	21	59	60.00	19	18	14.77250	-23	54	59.1968	1.402596502	-3.96	41.60	29.55	0.513E-01	0.612E-02	-8.3001
12	11	2011	21	59	60.00	19	23	36.76696	-23	45	57.2441	1.397658796	-3.96	41.94	29.77	0.513E-01	0.662E-02	-8.3489
12	12	2011	21	59	60.00	19	28	57.88056	-23	36	12.6701	1.392692249	-3.96	42.29	29.99	0.512E-01	0.711E-02	-8.3975
12	13	2011	21	59	60.00	19	34	18.06100	-23	25	45.8869	1.387696970	-3.96	42.64	30.21	0.511E-01	0.759E-02	-8.4459
12	14	2011	21	59	60.00	19	39	37.25873	-23	14	37.3305	1.382673018	-3.97	42.99	30.43	0.510E-01	0.808E-02	-8.4943
12	15	2011	21	59	60.00	19	44	55.42716	-23	2	47.4609	1.377620389	-3.97	43.34	30.65	0.509E-01	0.855E-02	-8.5428
12	16	2011	21	59	60.00	19	50	12.52280	-22	50	16.7619	1.372539021	-3.97	43.69	30.87	0.508E-01	0.902E-02	-8.5914
12	17	2011	21	59	60.00	19	55	28.50528	-22	37	5.7427	1.367428782	-3.97	44.04	31.08	0.507E-01	0.948E-02	-8.6403
12	18	2011	21	59	60.00	20	0	43.33714	-22	23	14.9387	1.362289483	-3.97	44.39	31.30	0.506E-01	0.994E-02	-8.6896
12	19	2011	21	59	60.00	20	5	56.98337	-22	8	44.9135	1.357120874	-3.98	44.74	31.52	0.505E-01	0.104E-01	-8.7394
12	20	2011	21	59	60.00	20	11	9.41080	-21	53	36.2604	1.351922663	-3.98	45.09	31.73	0.504E-01	0.108E-01	-8.7897

12 21	2011 21 59 60.00	20 16 20.58743 -21 37 49.6019	1.346694531	-3.98	45.44	31.95	0.503E-01	0.113E-01	-8.8405
12 22	2011 21 59 60.00	20 21 30.48196 -21 21 25.5877	1.341436156	-3.98	45.80	32.16	0.502E-01	0.117E-01	-8.8920
12 23	2011 21 59 60.00	20 26 39.06379 -21 4 24.8910	1.336147245	-3.98	46.15	32.37	0.500E-01	0.121E-01	-8.9438
12 24	2011 21 59 60.00	20 31 46.30353 -20 46 48.2025	1.330827560	-3.99	46.51	32.59	0.499E-01	0.125E-01	-8.9961
12 25	2011 21 59 60.00	20 36 52.17393 -20 28 36.2261	1.325476938	-3.99	46.86	32.80	0.498E-01	0.129E-01	-9.0486
12 26	2011 21 59 60.00	20 41 56.65085 -20 9 49.6756	1.320095296	-3.99	47.22	33.01	0.497E-01	0.133E-01	-9.1011
12 27	2011 21 59 60.00	20 46 59.71380 -19 50 29.2732	1.314682630	-3.99	47.58	33.22	0.495E-01	0.137E-01	-9.1536
12 28	2011 21 59 60.00	20 52 1.34605 -19 30 35.7503	1.309239002	-4.00	47.94	33.43	0.494E-01	0.141E-01	-9.2060
12 29	2011 21 59 60.00	20 57 1.53445 -19 10 9.8474	1.303764525	-4.00	48.30	33.64	0.493E-01	0.145E-01	-9.2581
12 30	2011 21 59 60.00	21 2 0.26908 -18 49 12.3143	1.298259346	-4.00	48.66	33.85	0.491E-01	0.148E-01	-9.3100
12 31	2011 21 59 60.00	21 6 57.54300 -18 27 43.9098	1.292723636	-4.00	49.03	34.06	0.490E-01	0.152E-01	-9.3616