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 EPHEMERIS OF SOLAR SYSTEM BODIES  
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Planet 1 Mercury  
 Planetary theory INPOP08  
 Apparent coordinates (true equator; equinoxe of the date)  
 Frame center: topocenter: merchtem  
 0 h 16 m 55.920 s E ; 50 d 58 ' 1.199 " N ; 16.00 m  
 Relativistic perturbations, coordinate system 0  
 Equatorial coordinates (R.A, Dec.)

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	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	17 17 52.14943	-20 20 5.4435	0.855744308	0.11	99.74	21.04	0.153E-01	-0.569E-02	36.7024
1 2	2011 21 59 60.00	17 19 38.38558	-20 28 51.7250	0.876971413	0.03	95.66	21.61	0.201E-01	-0.644E-02	36.8131
1 3	2011 21 59 60.00	17 21 53.21789	-20 38 35.7697	0.898198875	-0.04	91.84	22.08	0.245E-01	-0.703E-02	36.7058
1 4	2011 21 59 60.00	17 24 33.91869	-20 49 3.1083	0.919311664	-0.09	88.25	22.44	0.285E-01	-0.745E-02	36.4183
1 5	2011 21 59 60.00	17 27 37.95788	-21 0 0.3695	0.940215185	-0.13	84.87	22.72	0.320E-01	-0.773E-02	35.9834
1 6	2011 21 59 60.00	17 31 3.01970	-21 11 15.3525	0.960832520	-0.16	81.69	22.92	0.352E-01	-0.786E-02	35.4296
1 7	2011 21 59 60.00	17 34 47.00489	-21 22 37.0285	0.981101867	-0.18	78.70	23.05	0.380E-01	-0.788E-02	34.7809
1 8	2011 21 59 60.00	17 38 48.02344	-21 33 55.4981	1.000974216	-0.20	75.88	23.12	0.406E-01	-0.779E-02	34.0574
1 9	2011 21 59 60.00	17 43 4.38178	-21 45 1.9191	1.020411295	-0.21	73.22	23.13	0.429E-01	-0.761E-02	33.2762
1 10	2011 21 59 60.00	17 47 34.56717	-21 55 48.4223	1.039383784	-0.22	70.70	23.09	0.449E-01	-0.733E-02	32.4513
1 11	2011 21 59 60.00	17 52 17.23085	-22 6 8.0193	1.057869773	-0.22	68.32	23.00	0.468E-01	-0.698E-02	31.5943
1 12	2011 21 59 60.00	17 57 11.17138	-22 15 54.5125	1.075853453	-0.23	66.06	22.88	0.484E-01	-0.657E-02	30.7148
1 13	2011 21 59 60.00	18 2 15.31859	-22 25 2.4080	1.093323997	-0.23	63.90	22.72	0.499E-01	-0.609E-02	29.8205
1 14	2011 21 59 60.00	18 7 28.71869	-22 33 26.8345	1.110274624	-0.23	61.86	22.52	0.513E-01	-0.556E-02	28.9177
1 15	2011 21 59 60.00	18 12 50.52056	-22 41 3.4704	1.126701800	-0.23	59.90	22.30	0.525E-01	-0.498E-02	28.0113
1 16	2011 21 59 60.00	18 18 19.96349	-22 47 48.4764	1.142604574	-0.23	58.04	22.05	0.537E-01	-0.437E-02	27.1053
1 17	2011 21 59 60.00	18 23 56.36614	-22 53 38.4352	1.157984005	-0.23	56.25	21.78	0.547E-01	-0.371E-02	26.2028
1 18	2011 21 59 60.00	18 29 39.11696	-22 58 30.2972	1.172842683	-0.23	54.53	21.49	0.556E-01	-0.302E-02	25.3059
1 19	2011 21 59 60.00	18 35 27.66596	-23 2 21.3331	1.187184329	-0.23	52.88	21.17	0.565E-01	-0.230E-02	24.4164
1 20	2011 21 59 60.00	18 41 21.51773	-23 5 9.0943	1.201013451	-0.24	51.29	20.84	0.572E-01	-0.155E-02	23.5353
1 21	2011 21 59 60.00	18 47 20.22531	-23 6 51.3812	1.214335071	-0.24	49.76	20.49	0.580E-01	-0.782E-03	22.6633
1 22	2011 21 59 60.00	18 53 23.38459	-23 7 26.2172	1.227154506	-0.24	48.27	20.12	0.586E-01	0.105E-04	21.8008
1 23	2011 21 59 60.00	18 59 30.62902	-23 6 51.8283	1.239477198	-0.25	46.84	19.74	0.593E-01	0.822E-03	20.9478
1 24	2011 21 59 60.00	19 5 41.62461	-23 5 6.6232	1.251308582	-0.26	45.44	19.34	0.599E-01	0.165E-02	20.1043
1 25	2011 21 59 60.00	19 11 56.06571	-23 2 9.1742	1.262653976	-0.27	44.07	18.93	0.604E-01	0.250E-02	19.2698
1 26	2011 21 59 60.00	19 18 13.67151	-22 57 58.1980	1.273518489	-0.28	42.74	18.50	0.609E-01	0.335E-02	18.4441
1 27	2011 21 59 60.00	19 24 34.18349	-22 52 32.5382	1.283906934	-0.29	41.44	18.07	0.614E-01	0.423E-02	17.6264
1 28	2011 21 59 60.00	19 30 57.36349	-22 45 51.1485	1.293823748	-0.30	40.16	17.62	0.618E-01	0.511E-02	16.8161
1 29	2011 21 59 60.00	19 37 22.99227	-22 37 53.0799	1.303272918	-0.31	38.91	17.15	0.623E-01	0.600E-02	16.0124
1 30	2011 21 59 60.00	19 43 50.86835	-22 28 37.4689	1.312257904	-0.33	37.67	16.68	0.627E-01	0.691E-02	15.2142
1 31	2011 21 59 60.00	19 50 20.80702	-22 18 3.5280	1.320781574	-0.35	36.44	16.19	0.631E-01	0.782E-02	14.4204
2 1	2011 21 59 60.00	19 56 52.63956	-22 6 10.5383	1.328846129	-0.37	35.23	15.70	0.635E-01	0.874E-02	13.6300
2 2	2011 21 59 60.00	20 3 26.21235	-21 52 57.8427	1.336453042	-0.39	34.02	15.19	0.638E-01	0.967E-02	12.8414
2 3	2011 21 59 60.00	20 10 1.38615	-21 38 24.8412	1.343602987	-0.42	32.82	14.67	0.642E-01	0.106E-01	12.0533
2 4	2011 21 59 60.00	20 16 38.03530	-21 22 30.9854	1.350295768	-0.45	31.62	14.13	0.645E-01	0.115E-01	11.2642
2 5	2011 21 59 60.00	20 23 16.04703	-21 5 15.7760	1.356530249	-0.48	30.41	13.59	0.649E-01	0.125E-01	10.4722

2	6	2011	21	59	60.00	20	29	55.32062	-20	46	38.7584	1.362304280	-0.51	29.20	13.03	0.652E-01	0.134E-01	9.6757
2	7	2011	21	59	60.00	20	36	35.76679	-20	26	39.5215	1.367614621	-0.54	27.98	12.46	0.655E-01	0.144E-01	8.8726
2	8	2011	21	59	60.00	20	43	17.30704	-20	5	17.6947	1.372456865	-0.58	26.76	11.88	0.658E-01	0.153E-01	8.0608
2	9	2011	21	59	60.00	20	49	59.87300	-19	42	32.9477	1.376825353	-0.62	25.51	11.29	0.662E-01	0.163E-01	7.2382
2	10	2011	21	59	60.00	20	56	43.40593	-19	18	24.9889	1.380713090	-0.67	24.25	10.68	0.665E-01	0.173E-01	6.4022
2	11	2011	21	59	60.00	21	3	27.85600	-18	52	53.5669	1.384111658	-0.71	22.96	10.07	0.668E-01	0.182E-01	5.5505
2	12	2011	21	59	60.00	21	10	13.18174	-18	25	58.4716	1.387011112	-0.76	21.66	9.44	0.671E-01	0.192E-01	4.6802
2	13	2011	21	59	60.00	21	16	59.34932	-17	57	39.5367	1.389399884	-0.82	20.32	8.79	0.674E-01	0.202E-01	3.7884
2	14	2011	21	59	60.00	21	23	46.33190	-17	27	56.6435	1.391264663	-0.87	18.95	8.14	0.677E-01	0.212E-01	2.8720
2	15	2011	21	59	60.00	21	30	34.10893	-16	56	49.7245	1.392590274	-0.93	17.56	7.47	0.681E-01	0.221E-01	1.9276
2	16	2011	21	59	60.00	21	37	22.66560	-16	24	18.7693	1.393359548	-1.00	16.12	6.80	0.684E-01	0.231E-01	0.9518
2	17	2011	21	59	60.00	21	44	11.99226	-15	50	23.8334	1.393553173	-1.07	14.65	6.11	0.687E-01	0.241E-01	-0.0594
2	18	2011	21	59	60.00	21	51	2.08356	-15	15	5.0519	1.393149564	-1.14	13.15	5.42	0.690E-01	0.250E-01	-1.1100
2	19	2011	21	59	60.00	21	57	52.93671	-14	38	22.6594	1.392124731	-1.22	11.61	4.73	0.693E-01	0.260E-01	-2.2042
2	20	2011	21	59	60.00	22	4	44.54880	-14	0	17.0163	1.390452182	-1.30	10.06	4.04	0.697E-01	0.270E-01	-3.3465
2	21	2011	21	59	60.00	22	11	36.91331	-13	20	48.6389	1.388102851	-1.38	8.52	3.37	0.700E-01	0.279E-01	-4.5413
2	22	2011	21	59	60.00	22	18	30.01625	-12	39	58.2323	1.385045067	-1.47	7.04	2.74	0.703E-01	0.289E-01	-5.7933
2	23	2011	21	59	60.00	22	25	23.83254	-11	57	46.7238	1.381244563	-1.55	5.76	2.22	0.706E-01	0.298E-01	-7.1067
2	24	2011	21	59	60.00	22	32	18.32216	-11	14	15.2953	1.376664526	-1.62	4.92	1.91	0.709E-01	0.307E-01	-8.4861
2	25	2011	21	59	60.00	22	39	13.42495	-10	29	25.4230	1.371265709	-1.66	4.90	1.94	0.712E-01	0.316E-01	-9.9353
2	26	2011	21	59	60.00	22	46	9.05525	-09	43	18.9653	1.365006619	-1.67	5.83	2.31	0.714E-01	0.325E-01	-11.4583
2	27	2011	21	59	60.00	22	53	5.09915	-08	55	58.2223	1.357843813	-1.66	7.45	2.90	0.716E-01	0.333E-01	-13.0578
2	28	2011	21	59	60.00	23	0	1.40655	-08	7	25.9690	1.349732327	-1.64	9.51	3.62	0.718E-01	0.341E-01	-14.7363
3	1	2011	21	59	60.00	23	6	57.78168	-07	17	45.5500	1.340626268	-1.61	11.86	4.42	0.719E-01	0.349E-01	-16.4946
3	2	2011	21	59	60.00	23	13	53.97423	-06	27	0.9787	1.330479616	-1.58	14.45	5.26	0.720E-01	0.356E-01	-18.3321
3	3	2011	21	59	60.00	23	20	49.66956	-05	35	17.0338	1.319247246	-1.55	17.23	6.12	0.720E-01	0.363E-01	-20.2463
3	4	2011	21	59	60.00	23	27	44.47778	-04	42	39.3593	1.306886224	-1.51	20.20	7.01	0.719E-01	0.368E-01	-22.2321
3	5	2011	21	59	60.00	23	34	37.92237	-03	49	14.5658	1.293357363	-1.48	23.35	7.91	0.717E-01	0.373E-01	-24.2815
3	6	2011	21	59	60.00	23	41	29.42875	-02	55	10.3262	1.278627074	-1.44	26.67	8.81	0.714E-01	0.378E-01	-26.3831
3	7	2011	21	59	60.00	23	48	18.31339	-02	0	35.4592	1.262669468	-1.40	30.17	9.72	0.709E-01	0.380E-01	-28.5216
3	8	2011	21	59	60.00	23	55	3.77427	-01	5	39.9929	1.245468656	-1.36	33.84	10.62	0.703E-01	0.382E-01	-30.6777
3	9	2011	21	59	60.00	0	1	44.88366	-00	10	35.1966	1.227021171	-1.32	37.68	11.51	0.694E-01	0.383E-01	-32.8277
3	10	2011	21	59	60.00	0	8	20.58413	+00	44	26.4262	1.207338359	-1.27	41.67	12.38	0.684E-01	0.381E-01	-34.9441
3	11	2011	21	59	60.00	0	14	49.68890	+01	39	11.1944	1.1864448579	-1.22	45.82	13.23	0.671E-01	0.379E-01	-36.9957
3	12	2011	21	59	60.00	0	21	10.88724	+02	33	24.3595	1.164399003	-1.17	50.11	14.05	0.656E-01	0.374E-01	-38.9487
3	13	2011	21	59	60.00	0	27	22.75572	+03	26	50.2741	1.141256818	-1.11	54.53	14.83	0.638E-01	0.367E-01	-40.7679
3	14	2011	21	59	60.00	0	33	23.77533	+04	19	12.6116	1.117109621	-1.04	59.06	15.57	0.617E-01	0.359E-01	-42.4183
3	15	2011	21	59	60.00	0	39	12.35407	+05	10	14.6288	1.092064907	-0.97	63.69	16.24	0.594E-01	0.349E-01	-43.8663
3	16	2011	21	59	60.00	0	44	46.85435	+05	59	39.4558	1.066248566	-0.88	68.40	16.86	0.567E-01	0.337E-01	-45.0820
3	17	2011	21	59	60.00	0	50	5.62340	+06	47	10.3920	1.039802466	-0.79	73.16	17.40	0.538E-01	0.322E-01	-46.0404
3	18	2011	21	59	60.00	0	55	7.02515	+07	32	31.1861	1.012881270	-0.68	77.97	17.86	0.506E-01	0.306E-01	-46.7223
3	19	2011	21	59	60.00	0	59	49.47118	+08	15	26.2781	0.985648738	-0.57	82.80	18.24	0.471E-01	0.289E-01	-47.1155
3	20	2011	21	59	60.00	1	4	11.44952	+08	55	40.9890	0.958273800	-0.44	87.64	18.52	0.434E-01	0.269E-01	-47.2145
3	21	2011	21	59	60.00	1	8	11.55055	+09	33	1.6498	0.930926722	-0.30	92.48	18.70	0.395E-01	0.248E-01	-47.0200
3	22	2011	21	59	60.00	1	11	48.49053	+10	7	15.6778	0.903775612	-0.14	97.30	18.77	0.353E-01	0.226E-01	-46.5385
3	23	2011	21	59	60.00	1	15	1.13369	+10	38	11.6132	0.876983459	0.03	102.10	18.72	0.311E-01	0.202E-01	-45.7812
3	24	2011	21	59	60.00	1	17	48.51365	+11	5	39.1314	0.850705796	0.22	106.87	18.56	0.267E-01	0.178E-01	-44.7625
3	25	2011	21	59	60.00	1	20	9.85494	+11	29	29.0524	0.825089012	0.42	111.60	18.28	0.222E-01	0.152E-01	-43.4995
3	26	2011	21	59	60.00	1	22	4.59510	+11	49	33.3645	0.800269237	0.64	116.30	17.88	0.176E-01	0.125E-01	-42.0104
3	27	2011	21	59	60.00	1	23	32.40773	+12	5	45.2816	0.776371730	0.88	120.97	17.35	0.130E-01	0.981E-02	-40.3146
3	28	2011	21	59	60.00	1	24	33.22686	+12	17	59.3494	0.753510626	1.13	125.60	16.70	0.844E-02	0.703E-02	-38.4312
3	29	2011	21	59	60.00	1	25	7.27188	+12	26	11.6124	0.731788935	1.41	130.20	15.92	0.395E-02	0.421E-02	-36.3795
3	30	2011	21	59	60.00	1	25	15.07200	+12	30	19.8442	0.711298654	1.71	134.77	15.02	-0.417E-03	0.138E-02	-34.1784

3	31	2011	21	59	60.00	1	24	57.48817	+12	30	23.8374	0.692120922	2.03	139.31	14.00	-0.461E-02	-0.144E-02	-31.8465
4	1	2011	21	59	60.00	1	24	15.73008	+12	26	25.7365	0.674326112	2.37	143.81	12.87	-0.856E-02	-0.422E-02	-29.4024
4	2	2011	21	59	60.00	1	23	11.36522	+12	18	30.3910	0.657973854	2.74	148.28	11.63	-0.122E-01	-0.692E-02	-26.8649
4	3	2011	21	59	60.00	1	21	46.31714	+12	6	45.6915	0.643112944	3.12	152.70	10.30	-0.155E-01	-0.952E-02	-24.2527
4	4	2011	21	59	60.00	1	20	2.85035	+11	51	22.8477	0.629781170	3.54	157.07	8.88	-0.185E-01	-0.120E-01	-21.5850
4	5	2011	21	59	60.00	1	18	3.53996	+11	32	36.5630	0.618005094	3.97	161.35	7.41	-0.209E-01	-0.142E-01	-18.8816
4	6	2011	21	59	60.00	1	15	51.22561	+11	10	45.0621	0.607799849	4.41	165.49	5.90	-0.229E-01	-0.162E-01	-16.1621
4	7	2011	21	59	60.00	1	13	28.95058	+10	46	9.9388	0.599169017	4.85	169.36	4.42	-0.243E-01	-0.180E-01	-13.4467
4	8	2011	21	59	60.00	1	10	59.88880	+10	19	15.8069	0.592104658	5.25	172.63	3.11	-0.252E-01	-0.194E-01	-10.7551
4	9	2011	21	59	60.00	1	8	27.26364	+09	50	29.7587	0.586587562	5.45	174.25	2.38	-0.256E-01	-0.206E-01	-8.1064
4	10	2011	21	59	60.00	1	5	54.26392	+09	20	20.6598	0.582587751	5.32	173.10	2.79	-0.254E-01	-0.213E-01	-5.5186
4	11	2011	21	59	60.00	1	3	23.96248	+08	49	18.3278	0.580065260	4.98	170.18	4.01	-0.247E-01	-0.218E-01	-3.0080
4	12	2011	21	59	60.00	1	0	59.24278	+08	17	52.6589	0.578971171	4.59	166.69	5.51	-0.236E-01	-0.219E-01	-0.5891
4	13	2011	21	59	60.00	0	58	42.73778	+07	46	32.7704	0.579248875	4.21	163.05	7.10	-0.220E-01	-0.216E-01	1.7260
4	14	2011	21	59	60.00	0	56	36.78404	+07	15	46.2221	0.580835479	3.84	159.39	8.69	-0.200E-01	-0.211E-01	3.9277
4	15	2011	21	59	60.00	0	54	43.39203	+06	45	58.3662	0.583663304	3.51	155.77	10.26	-0.177E-01	-0.203E-01	6.0093
4	16	2011	21	59	60.00	0	53	4.23232	+06	17	31.8562	0.587661391	3.20	152.23	11.77	-0.151E-01	-0.192E-01	7.9662
4	17	2011	21	59	60.00	0	51	40.63587	+05	50	46.3270	0.592756957	2.92	148.79	13.23	-0.124E-01	-0.179E-01	9.7966
4	18	2011	21	59	60.00	0	50	33.60646	+05	25	58.2419	0.598876743	2.66	145.44	14.62	-0.945E-02	-0.165E-01	11.5008
4	19	2011	21	59	60.00	0	49	43.84315	+05	3	20.8944	0.605948238	2.43	142.20	15.94	-0.643E-02	-0.149E-01	13.0810
4	20	2011	21	59	60.00	0	49	11.77020	+04	43	4.5390	0.613900723	2.21	139.06	17.18	-0.336E-02	-0.132E-01	14.5412
4	21	2011	21	59	60.00	0	48	57.57201	+04	25	16.6212	0.622666132	2.02	136.03	18.33	-0.272E-03	-0.115E-01	15.8867
4	22	2011	21	59	60.00	0	49	1.22997	+04	10	2.0712	0.632179713	1.85	133.11	19.40	0.280E-02	-0.969E-02	17.1235
4	23	2011	21	59	60.00	0	49	22.55901	+03	57	23.6293	0.642380493	1.69	130.29	20.38	0.583E-02	-0.788E-02	18.2585
4	24	2011	21	59	60.00	0	50	1.24192	+03	47	22.1768	0.653211562	1.55	127.57	21.29	0.879E-02	-0.606E-02	19.2990
4	25	2011	21	59	60.00	0	50	56.86061	+03	39	57.0541	0.664620204	1.42	124.94	22.11	0.117E-01	-0.426E-02	20.2522
4	26	2011	21	59	60.00	0	52	8.92368	+03	35	6.3551	0.676557909	1.31	122.41	22.85	0.145E-01	-0.249E-02	21.1254
4	27	2011	21	59	60.00	0	53	36.89036	+03	32	47.1901	0.688980280	1.20	119.96	23.51	0.172E-01	-0.750E-03	21.9254
4	28	2011	21	59	60.00	0	55	20.19067	+03	32	55.9157	0.701846874	1.11	117.58	24.10	0.198E-01	0.938E-03	22.6591
4	29	2011	21	59	60.00	0	57	18.24207	+03	35	28.3296	0.715120989	1.02	115.28	24.61	0.223E-01	0.258E-02	23.3326
4	30	2011	21	59	60.00	0	59	30.46315	+03	40	19.8337	0.728769416	0.94	113.05	25.05	0.247E-01	0.416E-02	23.9518
5	1	2011	21	59	60.00	1	1	56.28451	+03	47	25.5672	0.742762172	0.86	110.88	25.43	0.269E-01	0.568E-02	24.5220
5	2	2011	21	59	60.00	1	4	35.15729	+03	56	40.5137	0.757072213	0.79	108.77	25.74	0.291E-01	0.715E-02	25.0480
5	3	2011	21	59	60.00	1	7	26.55976	+04	7	59.5845	0.771675149	0.72	106.70	25.98	0.313E-01	0.856E-02	25.5341
5	4	2011	21	59	60.00	1	10	30.00228	+04	21	17.6830	0.786548951	0.66	104.68	26.17	0.333E-01	0.991E-02	25.9843
5	5	2011	21	59	60.00	1	13	45.03092	+04	36	29.7518	0.801673663	0.60	102.69	26.30	0.352E-01	0.112E-01	26.4017
5	6	2011	21	59	60.00	1	17	11.23009	+04	53	30.8070	0.817031114	0.55	100.74	26.37	0.371E-01	0.124E-01	26.7893
5	7	2011	21	59	60.00	1	20	48.22437	+05	12	15.9604	0.832604634	0.50	98.82	26.39	0.389E-01	0.136E-01	27.1494
5	8	2011	21	59	60.00	1	24	35.67973	+05	32	40.4335	0.848378770	0.44	96.92	26.36	0.407E-01	0.147E-01	27.4838
5	9	2011	21	59	60.00	1	28	33.30430	+05	54	39.5635	0.864339011	0.39	95.03	26.28	0.424E-01	0.158E-01	27.7940
5	10	2011	21	59	60.00	1	32	40.84876	+06	18	8.8037	0.880471501	0.34	93.15	26.15	0.440E-01	0.168E-01	28.0808
5	11	2011	21	59	60.00	1	36	58.10635	+06	43	3.7184	0.896762759	0.29	91.28	25.97	0.456E-01	0.178E-01	28.3446
5	12	2011	21	59	60.00	1	41	24.91262	+07	9	19.9733	0.913199388	0.24	89.40	25.75	0.472E-01	0.187E-01	28.5853
5	13	2011	21	59	60.00	1	46	1.14458	+07	36	53.3205	0.929767774	0.19	87.52	25.48	0.488E-01	0.196E-01	28.8023
5	14	2011	21	59	60.00	1	50	46.71944	+08	5	39.5792	0.946453778	0.14	85.63	25.17	0.503E-01	0.204E-01	28.9943
5	15	2011	21	59	60.00	1	55	41.59277	+08	35	34.6100	0.963242418	0.09	83.71	24.82	0.518E-01	0.212E-01	29.1597
5	16	2011	21	59	60.00	2	0	45.75644	+09	6	34.2854	0.980117540	0.04	81.78	24.43	0.534E-01	0.219E-01	29.2960
5	17	2011	21	59	60.00	2	5	59.23669	+09	38	34.4586	0.997061498	-0.01	79.81	23.99	0.549E-01	0.226E-01	29.4005
5	18	2011	21	59	60.00	2	11	22.09259	+10	11	30.9315	1.014054811	-0.07	77.80	23.51	0.564E-01	0.232E-01	29.4697
5	19	2011	21	59	60.00	2	16	54.41484	+10	45	19.4246	1.031075831	-0.12	75.76	23.00	0.579E-01	0.238E-01	29.4995
5	20	2011	21	59	60.00	2	22	36.32462	+11	19	55.5452	1.048100374	-0.18	73.66	22.44	0.594E-01	0.243E-01	29.4852
5	21	2011	21	59	60.00	2	28	27.97192	+11	55	14.7531	1.065101346	-0.24	71.50	21.85	0.610E-01	0.248E-01	29.4214
5	22	2011	21	59	60.00	2	34	29.53324	+12	31	12.3218	1.082048328	-0.30	69.29	21.22	0.625E-01	0.252E-01	29.3019

5 23	2011	21	59	60.00	2 40	41.20836	+13	7	43.2941	1.098907145	-0.36	67.00	20.54	0.641E-01	0.255E-01	29.1200
5 24	2011	21	59	60.00	2 47	3.21642	+13	44	42.4335	1.115639417	-0.43	64.64	19.83	0.657E-01	0.258E-01	28.8679
5 25	2011	21	59	60.00	2 53	35.79090	+14	22	4.1717	1.132202108	-0.50	62.19	19.08	0.673E-01	0.260E-01	28.5372
5 26	2011	21	59	60.00	3 0	19.17350	+14	59	42.5531	1.148547088	-0.57	59.65	18.30	0.689E-01	0.262E-01	28.1186
5 27	2011	21	59	60.00	3 7	13.60656	+15	37	31.1773	1.164620736	-0.65	57.02	17.47	0.706E-01	0.263E-01	27.6024
5 28	2011	21	59	60.00	3 14	19.32394	+16	15	23.1425	1.180363606	-0.72	54.28	16.61	0.722E-01	0.263E-01	26.9783
5 29	2011	21	59	60.00	3 21	36.54010	+16	53	10.9905	1.195710207	-0.81	51.43	15.70	0.739E-01	0.262E-01	26.2357
5 30	2011	21	59	60.00	3 29	5.43733	+17	30	46.6583	1.210588918	-0.89	48.47	14.77	0.756E-01	0.260E-01	25.3639
5 31	2011	21	59	60.00	3 36	46.15091	+18	8	1.4387	1.224922129	-0.98	45.38	13.79	0.773E-01	0.257E-01	24.3530
6 1	2011	21	59	60.00	3 44	38.75243	+18	44	45.9572	1.238626619	-1.07	42.18	12.78	0.790E-01	0.253E-01	23.1936
6 2	2011	21	59	60.00	3 52	43.23164	+19	20	50.1700	1.251614281	-1.16	38.85	11.74	0.806E-01	0.248E-01	21.8782
6 3	2011	21	59	60.00	4 0	59.47725	+19	56	3.3903	1.263793210	-1.26	35.41	10.66	0.823E-01	0.241E-01	20.4013
6 4	2011	21	59	60.00	4 9	27.25769	+20	30	14.3517	1.275069216	-1.37	31.84	9.55	0.838E-01	0.233E-01	18.7606
6 5	2011	21	59	60.00	4 18	6.20280	+21	3	11.3131	1.285347789	-1.47	28.16	8.41	0.853E-01	0.224E-01	16.9574
6 6	2011	21	59	60.00	4 26	55.78801	+21	34	42.2121	1.294536470	-1.58	24.38	7.25	0.866E-01	0.213E-01	14.9976
6 7	2011	21	59	60.00	4 35	55.32244	+22	4	34.8660	1.302547585	-1.70	20.52	6.07	0.879E-01	0.201E-01	12.8920
6 8	2011	21	59	60.00	4 45	3.94274	+22	32	37.2181	1.309301211	-1.82	16.58	4.87	0.889E-01	0.187E-01	10.6566
6 9	2011	21	59	60.00	4 54	20.61406	+22	58	37.6199	1.314728183	-1.95	12.61	3.67	0.898E-01	0.173E-01	8.3125
6 10	2011	21	59	60.00	5 3	44.13921	+23	22	25.1361	1.318772939	-2.08	8.68	2.48	0.906E-01	0.157E-01	5.8856
6 11	2011	21	59	60.00	5 13	13.17671	+23	43	49.8641	1.321395942	-2.20	4.99	1.38	0.911E-01	0.140E-01	3.4053
6 12	2011	21	59	60.00	5 22	46.27642	+24	2	43.2004	1.322575453	-2.27	2.94	0.89	0.914E-01	0.122E-01	0.9036
6 13	2011	21	59	60.00	5 32	21.88461	+24	18	57.8457	1.322308483	-2.18	5.15	1.67	0.915E-01	0.103E-01	-1.5870
6 14	2011	21	59	60.00	5 41	58.41137	+24	32	28.6378	1.320610823	-2.05	8.82	2.81	0.913E-01	0.836E-02	-4.0343
6 15	2011	21	59	60.00	5 51	34.26652	+24	43	11.9751	1.317516152	-1.91	12.69	4.00	0.909E-01	0.640E-02	-6.4087
6 16	2011	21	59	60.00	6 1	7.88965	+24	51	6.1237	1.313074324	-1.77	16.56	5.20	0.904E-01	0.444E-02	-8.6841
6 17	2011	21	59	60.00	6 10	37.79022	+24	56	11.1478	1.307349020	-1.65	20.38	6.38	0.896E-01	0.249E-02	-10.8389
6 18	2011	21	59	60.00	6 20	2.57721	+24	58	28.7841	1.300414971	-1.52	24.11	7.55	0.887E-01	0.562E-03	-12.8565
6 19	2011	21	59	60.00	6 29	20.98116	+24	58	2.2718	1.292355014	-1.41	27.74	8.70	0.876E-01	-0.132E-02	-14.7255
6 20	2011	21	59	60.00	6 38	31.86847	+24	54	56.1486	1.283257175	-1.29	31.25	9.82	0.863E-01	-0.314E-02	-16.4393
6 21	2011	21	59	60.00	6 47	34.24836	+24	49	16.0292	1.273211974	-1.19	34.65	10.91	0.850E-01	-0.488E-02	-17.9958
6 22	2011	21	59	60.00	6 56	27.27341	+24	41	8.3830	1.262310057	-1.09	37.92	11.97	0.835E-01	-0.655E-02	-19.3966
6 23	2011	21	59	60.00	7 5	10.23485	+24	30	40.3215	1.250640240	-0.99	41.06	13.00	0.820E-01	-0.814E-02	-20.6464
6 24	2011	21	59	60.00	7 13	42.55396	+24	17	59.4065	1.238287973	-0.90	44.08	14.00	0.804E-01	-0.963E-02	-21.7519
6 25	2011	21	59	60.00	7 22	3.77072	+24	3	13.4814	1.225334217	-0.82	46.98	14.96	0.788E-01	-0.110E-01	-22.7219
6 26	2011	21	59	60.00	7 30	13.53083	+23	46	30.5308	1.211854689	-0.73	49.77	15.88	0.771E-01	-0.123E-01	-23.5657
6 27	2011	21	59	60.00	7 38	11.57209	+23	27	58.5656	1.197919428	-0.65	52.44	16.77	0.754E-01	-0.136E-01	-24.2936
6 28	2011	21	59	60.00	7 45	57.71068	+23	7	45.5342	1.183592617	-0.58	55.01	17.62	0.737E-01	-0.147E-01	-24.9155
6 29	2011	21	59	60.00	7 53	31.82797	+22	45	59.2548	1.168932614	-0.51	57.48	18.44	0.720E-01	-0.157E-01	-25.4416
6 30	2011	21	59	60.00	8 0	53.85824	+22	22	47.3673	1.153992131	-0.44	59.86	19.23	0.702E-01	-0.167E-01	-25.8813
7 1	2011	21	59	60.00	8 8	3.77757	+21	58	17.3000	1.138818529	-0.37	62.15	19.97	0.685E-01	-0.175E-01	-26.2436
7 2	2011	21	59	60.00	8 15	1.59400	+21	32	36.2502	1.123454180	-0.31	64.36	20.68	0.667E-01	-0.183E-01	-26.5368
7 3	2011	21	59	60.00	8 21	47.33906	+21	5	51.1755	1.107936876	-0.25	66.51	21.35	0.650E-01	-0.190E-01	-26.7685
7 4	2011	21	59	60.00	8 28	21.06025	+20	38	8.7942	1.092300250	-0.20	68.58	21.99	0.632E-01	-0.196E-01	-26.9455
7 5	2011	21	59	60.00	8 34	42.81454	+20	9	35.5931	1.076574206	-0.14	70.60	22.59	0.615E-01	-0.202E-01	-27.0739
7 6	2011	21	59	60.00	8 40	52.66235	+19	40	17.8416	1.060785327	-0.09	72.57	23.16	0.597E-01	-0.207E-01	-27.1590
7 7	2011	21	59	60.00	8 46	50.66210	+19	10	21.6090	1.044957271	-0.04	74.49	23.69	0.580E-01	-0.211E-01	-27.2057
7 8	2011	21	59	60.00	8 52	36.86520	+18	39	52.7854	1.029111141	0.01	76.38	24.18	0.562E-01	-0.214E-01	-27.2180
7 9	2011	21	59	60.00	8 58	11.31157	+18	8	57.1035	1.013265835	0.05	78.23	24.63	0.544E-01	-0.217E-01	-27.1994
7 10	2011	21	59	60.00	9 3	34.02580	+17	37	40.1605	0.997438372	0.10	80.05	25.05	0.527E-01	-0.219E-01	-27.1531
7 11	2011	21	59	60.00	9 8	45.01378	+17	6	7.4418	0.981644193	0.14	81.85	25.43	0.509E-01	-0.221E-01	-27.0813
7 12	2011	21	59	60.00	9 13	44.26007	+16	34	24.3435	0.965897457	0.19	83.63	25.77	0.491E-01	-0.222E-01	-26.9861
7 13	2011	21	59	60.00	9 18	31.72560	+16	2	36.1976	0.950211307	0.23	85.40	26.07	0.472E-01	-0.222E-01	-26.8691
7 14	2011	21	59	60.00	9 23	7.34572	+15	30	48.2977	0.934598141	0.27	87.17	26.33	0.454E-01	-0.222E-01	-26.7313

7 15	2011 21 59 60.00	9 27 31.02833 +14 59 5.9272	0.919069869	0.31	88.94	26.55	0.435E-01	-0.221E-01	-26.5733
7 16	2011 21 59 60.00	9 31 42.65204 +14 27 34.3889	0.903638166	0.35	90.71	26.72	0.415E-01	-0.219E-01	-26.3953
7 17	2011 21 59 60.00	9 35 42.06429 +13 56 19.0360	0.888314737	0.40	92.49	26.85	0.396E-01	-0.217E-01	-26.1970
7 18	2011 21 59 60.00	9 39 29.07967 +13 25 25.3025	0.873111565	0.44	94.29	26.94	0.375E-01	-0.214E-01	-25.9778
7 19	2011 21 59 60.00	9 43 3.47844 +12 54 58.7347	0.858041178	0.48	96.10	26.98	0.355E-01	-0.210E-01	-25.7365
7 20	2011 21 59 60.00	9 46 25.00543 +12 25 5.0206	0.843116908	0.53	97.95	26.97	0.333E-01	-0.206E-01	-25.4714
7 21	2011 21 59 60.00	9 49 33.36940 +11 55 50.0194	0.828353157	0.58	99.82	26.90	0.311E-01	-0.201E-01	-25.1805
7 22	2011 21 59 60.00	9 52 28.24308 +11 27 19.7891	0.813765669	0.63	101.73	26.79	0.289E-01	-0.196E-01	-24.8612
7 23	2011 21 59 60.00	9 55 9.26371 +10 59 40.6130	0.799371802	0.68	103.69	26.62	0.265E-01	-0.190E-01	-24.5105
7 24	2011 21 59 60.00	9 57 36.03453 +10 32 59.0230	0.785190823	0.73	105.69	26.40	0.241E-01	-0.183E-01	-24.1249
7 25	2011 21 59 60.00	9 59 48.12709 +10 7 21.8207	0.771244197	0.79	107.74	26.11	0.216E-01	-0.175E-01	-23.7003
7 26	2011 21 59 60.00	10 1 45.08496 +09 42 56.0925	0.757555898	0.86	109.85	25.77	0.190E-01	-0.166E-01	-23.2320
7 27	2011 21 59 60.00	10 3 26.42880 +09 19 49.2176	0.744152731	0.93	112.03	25.36	0.163E-01	-0.156E-01	-22.7149
7 28	2011 21 59 60.00	10 4 51.66348 +08 58 8.8659	0.731064666	1.01	114.27	24.88	0.136E-01	-0.146E-01	-22.1433
7 29	2011 21 59 60.00	10 6 0.28756 +08 38 2.9812	0.718325182	1.09	116.59	24.33	0.107E-01	-0.134E-01	-21.5108
7 30	2011 21 59 60.00	10 6 51.80580 +08 19 39.7469	0.705971611	1.18	119.00	23.71	0.772E-02	-0.122E-01	-20.8104
7 31	2011 21 59 60.00	10 7 25.74503 +08 3 7.5297	0.694045485	1.29	121.49	23.02	0.468E-02	-0.109E-01	-20.0346
8 1	2011 21 59 60.00	10 7 41.67378 +07 48 34.7959	0.682592847	1.40	124.07	22.24	0.157E-02	-0.944E-02	-19.1754
8 2	2011 21 59 60.00	10 7 39.22579 +07 36 9.9981	0.671664520	1.53	126.74	21.39	-0.161E-02	-0.791E-02	-18.2242
8 3	2011 21 59 60.00	10 7 18.12744 +07 26 1.4249	0.661316302	1.67	129.52	20.46	-0.482E-02	-0.628E-02	-17.1724
8 4	2011 21 59 60.00	10 6 38.22924 +07 18 17.0096	0.651609057	1.82	132.40	19.45	-0.805E-02	-0.457E-02	-16.0113
8 5	2011 21 59 60.00	10 5 39.54101 +07 13 4.0938	0.642608685	1.99	135.38	18.36	-0.113E-01	-0.277E-02	-14.7321
8 6	2011 21 59 60.00	10 4 22.27046 +07 10 29.1443	0.634385931	2.18	138.47	17.19	-0.144E-01	-0.910E-03	-13.3269
8 7	2011 21 59 60.00	10 2 46.86365 +07 10 37.4271	0.627016018	2.39	141.66	15.95	-0.175E-01	0.100E-02	-11.7882
8 8	2011 21 59 60.00	10 0 54.04575 +07 13 32.6473	0.620578071	2.62	144.94	14.64	-0.204E-01	0.295E-02	-10.1100
8 9	2011 21 59 60.00	9 58 44.85932 +07 19 16.5708	0.615154308	2.88	148.31	13.26	-0.231E-01	0.491E-02	-8.2878
8 10	2011 21 59 60.00	9 56 20.69707 +07 27 48.6471	0.610828983	3.15	151.73	11.84	-0.255E-01	0.684E-02	-6.3190
8 11	2011 21 59 60.00	9 53 43.32547 +07 39 5.6645	0.607687077	3.45	155.19	10.38	-0.275E-01	0.872E-02	-4.2036
8 12	2011 21 59 60.00	9 50 54.89561 +07 53 1.4674	0.605812757	3.76	158.62	8.93	-0.292E-01	0.105E-01	-1.9445
8 13	2011 21 59 60.00	9 47 57.93777 +08 9 26.7713	0.605287635	4.08	161.93	7.52	-0.304E-01	0.122E-01	0.4524
8 14	2011 21 59 60.00	9 44 55.33741 +08 28 9.1052	0.606188887	4.39	164.91	6.23	-0.311E-01	0.137E-01	2.9778
8 15	2011 21 59 60.00	9 41 50.29137 +08 48 52.9043	0.608587309	4.63	167.24	5.20	-0.312E-01	0.150E-01	5.6189
8 16	2011 21 59 60.00	9 38 46.24480 +09 11 19.7624	0.612545410	4.75	168.39	4.63	-0.307E-01	0.161E-01	8.3601
8 17	2011 21 59 60.00	9 35 46.81161 +09 35 8.8359	0.618115616	4.68	167.92	4.69	-0.295E-01	0.169E-01	11.1824
8 18	2011 21 59 60.00	9 32 55.68267 +09 59 57.3741	0.625338700	4.45	165.91	5.34	-0.277E-01	0.174E-01	14.0645
8 19	2011 21 59 60.00	9 30 16.52760 +10 25 21.3356	0.634242481	4.11	162.83	6.38	-0.254E-01	0.177E-01	16.9833
8 20	2011 21 59 60.00	9 27 52.89686 +10 50 56.0397	0.644840839	3.72	159.13	7.60	-0.224E-01	0.177E-01	19.9138
8 21	2011 21 59 60.00	9 25 48.13007 +11 16 16.8010	0.657133061	3.31	155.05	8.89	-0.189E-01	0.174E-01	22.8307
8 22	2011 21 59 60.00	9 24 5.27642 +11 40 59.5001	0.671103472	2.92	150.73	10.18	-0.149E-01	0.168E-01	25.7078
8 23	2011 21 59 60.00	9 22 47.03065 +12 4 41.0566	0.686721318	2.53	146.24	11.42	-0.105E-01	0.160E-01	28.5191
8 24	2011 21 59 60.00	9 21 55.68663 +12 26 59.7853	0.703940817	2.16	141.65	12.59	-0.576E-02	0.149E-01	31.2388
8 25	2011 21 59 60.00	9 21 33.10869 +12 47 35.6334	0.722701323	1.82	136.96	13.66	-0.759E-03	0.136E-01	33.8414
8 26	2011 21 59 60.00	9 21 40.71897 +13 6 10.3137	0.742927531	1.50	132.21	14.63	0.443E-02	0.121E-01	36.3016
8 27	2011 21 59 60.00	9 22 19.49851 +13 22 27.3537	0.764529715	1.20	127.40	15.48	0.974E-02	0.104E-01	38.5947
8 28	2011 21 59 60.00	9 23 29.99871 +13 36 12.0920	0.787403960	0.92	122.55	16.20	0.151E-01	0.859E-02	40.6965
8 29	2011 21 59 60.00	9 25 12.36015 +13 47 11.6507	0.811432456	0.66	117.64	16.81	0.204E-01	0.662E-02	42.5830
8 30	2011 21 59 60.00	9 27 26.33544 +13 55 14.9094	0.836483893	0.43	112.71	17.28	0.257E-01	0.452E-02	44.2314
8 31	2011 21 59 60.00	9 30 11.31448 +14 0 12.4994	0.862414070	0.21	107.74	17.62	0.308E-01	0.232E-02	45.6200
9 1	2011 21 59 60.00	9 33 26.35094 +14 1 56.8258	0.889066838	0.02	102.74	17.84	0.358E-01	0.499E-04	46.7291
9 2	2011 21 59 60.00	9 37 10.19058 +14 0 22.1201	0.916275501	-0.16	97.73	17.94	0.405E-01	-0.228E-02	47.5421
9 3	2011 21 59 60.00	9 41 21.30202 +13 55 24.5126	0.943864793	-0.31	92.71	17.92	0.449E-01	-0.464E-02	48.0460
9 4	2011 21 59 60.00	9 45 57.91120 +13 47 2.1149	0.971653480	-0.45	87.70	17.79	0.491E-01	-0.702E-02	48.2332
9 5	2011 21 59 60.00	9 50 58.04009 +13 35 15.0913	0.999457579	-0.58	82.71	17.55	0.529E-01	-0.938E-02	48.1018

9	6	2011	21	59	60.00	9	56	19.55009	+13	20	5.7004	1.027094086	-0.69	77.75	17.22	0.564E-01	-0.117E-01	47.6571
9	7	2011	21	59	60.00	10	2	0.18957	+13	1	38.2858	1.054385020	-0.78	72.85	16.80	0.595E-01	-0.140E-01	46.9113
9	8	2011	21	59	60.00	10	7	57.64474	+12	39	59.2006	1.081161534	-0.87	68.01	16.29	0.622E-01	-0.161E-01	45.8835
9	9	2011	21	59	60.00	10	14	9.59158	+12	15	16.6585	1.107267773	-0.94	63.27	15.71	0.646E-01	-0.182E-01	44.5994
9	10	2011	21	59	60.00	10	20	33.74659	+11	47	40.5142	1.132564201	-1.01	58.63	15.07	0.666E-01	-0.201E-01	43.0897
9	11	2011	21	59	60.00	10	27	7.91355	+11	17	21.9837	1.156930144	-1.06	54.12	14.37	0.682E-01	-0.220E-01	41.3885
9	12	2011	21	59	60.00	10	33	50.02374	+10	44	33.3236	1.180265393	-1.11	49.74	13.63	0.695E-01	-0.236E-01	39.5322
9	13	2011	21	59	60.00	10	40	38.16797	+10	9	27.4914	1.202490812	-1.16	45.51	12.85	0.705E-01	-0.251E-01	37.5572
9	14	2011	21	59	60.00	10	47	30.61912	+09	32	17.8097	1.223547999	-1.20	41.43	12.03	0.712E-01	-0.265E-01	35.4985
9	15	2011	21	59	60.00	10	54	25.84534	+08	53	17.6554	1.243398140	-1.23	37.52	11.20	0.717E-01	-0.277E-01	33.3887
9	16	2011	21	59	60.00	11	1	22.51431	+08	12	40.1879	1.262020228	-1.27	33.78	10.34	0.720E-01	-0.287E-01	31.2568
9	17	2011	21	59	60.00	11	8	19.49001	+07	30	38.1258	1.279408886	-1.30	30.21	9.48	0.720E-01	-0.296E-01	29.1278
9	18	2011	21	59	60.00	11	15	15.82346	+06	47	23.5765	1.295571958	-1.33	26.81	8.61	0.720E-01	-0.304E-01	27.0224
9	19	2011	21	59	60.00	11	22	10.73916	+06	3	7.9169	1.310528082	-1.36	23.58	7.73	0.718E-01	-0.311E-01	24.9573
9	20	2011	21	59	60.00	11	29	3.61877	+05	18	1.7202	1.324304349	-1.39	20.51	6.86	0.715E-01	-0.316E-01	22.9451
9	21	2011	21	59	60.00	11	35	53.98358	+04	32	14.7221	1.336934164	-1.42	17.60	6.00	0.711E-01	-0.320E-01	20.9950
9	22	2011	21	59	60.00	11	42	41.47674	+03	45	55.8176	1.348455360	-1.45	14.86	5.15	0.706E-01	-0.323E-01	19.1133
9	23	2011	21	59	60.00	11	49	25.84614	+02	59	13.0830	1.358908581	-1.48	12.27	4.32	0.701E-01	-0.326E-01	17.3035
9	24	2011	21	59	60.00	11	56	6.92854	+02	12	13.8128	1.368335960	-1.51	9.86	3.52	0.696E-01	-0.327E-01	15.5673
9	25	2011	21	59	60.00	12	2	44.63527	+01	25	4.5689	1.376780046	-1.54	7.64	2.75	0.690E-01	-0.328E-01	13.9045
9	26	2011	21	59	60.00	12	9	18.93950	+00	37	51.2352	1.384282985	-1.56	5.68	2.07	0.684E-01	-0.328E-01	12.3138
9	27	2011	21	59	60.00	12	15	49.86521	-00	9	20.9266	1.390885892	-1.58	4.15	1.55	0.678E-01	-0.328E-01	10.7932
9	28	2011	21	59	60.00	12	22	17.47636	-00	56	27.2438	1.396628399	-1.56	3.43	1.37	0.673E-01	-0.327E-01	9.3395
9	29	2011	21	59	60.00	12	28	41.86327	-01	43	23.5394	1.401548318	-1.51	3.84	1.63	0.667E-01	-0.325E-01	7.9496
9	30	2011	21	59	60.00	12	35	3.14195	-02	30	5.9951	1.405681409	-1.43	5.00	2.15	0.661E-01	-0.323E-01	6.6196
10	1	2011	21	59	60.00	12	41	21.44946	-03	16	31.2302	1.409061224	-1.35	6.46	2.79	0.656E-01	-0.321E-01	5.3456
10	2	2011	21	59	60.00	12	47	36.93456	-04	2	36.2292	1.411719013	-1.27	8.01	3.47	0.650E-01	-0.319E-01	4.1237
10	3	2011	21	59	60.00	12	53	49.75522	-04	48	18.2754	1.413683691	-1.19	9.56	4.16	0.645E-01	-0.316E-01	2.9497
10	4	2011	21	59	60.00	13	0	0.07614	-05	33	34.9152	1.414981847	-1.11	11.10	4.85	0.640E-01	-0.313E-01	1.8197
10	5	2011	21	59	60.00	13	6	8.06605	-06	18	23.9255	1.415637791	-1.04	12.60	5.54	0.636E-01	-0.309E-01	0.7297
10	6	2011	21	59	60.00	13	12	13.89520	-07	2	43.2819	1.415673628	-0.97	14.07	6.22	0.631E-01	-0.306E-01	-0.3238
10	7	2011	21	59	60.00	13	18	17.73331	-07	46	31.1303	1.415109342	-0.91	15.51	6.89	0.627E-01	-0.302E-01	-1.3447
10	8	2011	21	59	60.00	13	24	19.74782	-08	29	45.7615	1.413962892	-0.85	16.91	7.55	0.623E-01	-0.298E-01	-2.3362
10	9	2011	21	59	60.00	13	30	20.10233	-09	12	25.5875	1.412250319	-0.79	18.29	8.20	0.619E-01	-0.294E-01	-3.3016
10	10	2011	21	59	60.00	13	36	18.95527	-09	54	29.1220	1.409985837	-0.74	19.63	8.84	0.615E-01	-0.290E-01	-4.2439
10	11	2011	21	59	60.00	13	42	16.45877	-10	35	54.9615	1.407181941	-0.69	20.95	9.47	0.611E-01	-0.285E-01	-5.1661
10	12	2011	21	59	60.00	13	48	12.75762	-11	16	41.7689	1.403849495	-0.65	22.24	10.08	0.608E-01	-0.281E-01	-6.0709
10	13	2011	21	59	60.00	13	54	7.98827	-11	56	48.2593	1.399997828	-0.61	23.52	10.69	0.605E-01	-0.276E-01	-6.9609
10	14	2011	21	59	60.00	14	0	2.27805	-12	36	13.1867	1.395634822	-0.57	24.78	11.28	0.602E-01	-0.271E-01	-7.8385
10	15	2011	21	59	60.00	14	5	55.74425	-13	14	55.3324	1.390766990	-0.53	26.03	11.86	0.599E-01	-0.266E-01	-8.7060
10	16	2011	21	59	60.00	14	11	48.49343	-13	52	53.4952	1.385399558	-0.50	27.27	12.43	0.596E-01	-0.261E-01	-9.5655
10	17	2011	21	59	60.00	14	17	40.62049	-14	30	6.4818	1.379536538	-0.47	28.51	13.00	0.594E-01	-0.255E-01	-10.4192
10	18	2011	21	59	60.00	14	23	32.20792	-15	6	33.0984	1.373180791	-0.44	29.74	13.54	0.591E-01	-0.250E-01	-11.2689
10	19	2011	21	59	60.00	14	29	23.32485	-15	42	12.1440	1.366334097	-0.42	30.97	14.08	0.589E-01	-0.244E-01	-12.1164
10	20	2011	21	59	60.00	14	35	14.02614	-16	17	2.4043	1.358997209	-0.39	32.21	14.61	0.586E-01	-0.239E-01	-12.9636
10	21	2011	21	59	60.00	14	41	4.35133	-16	51	2.6459	1.351169920	-0.37	33.45	15.13	0.584E-01	-0.233E-01	-13.8119
10	22	2011	21	59	60.00	14	46	54.32341	-17	24	11.6126	1.342851117	-0.35	34.70	15.64	0.582E-01	-0.227E-01	-14.6629
10	23	2011	21	59	60.00	14	52	43.94738	-17	56	28.0227	1.334038856	-0.34	35.97	16.13	0.580E-01	-0.220E-01	-15.5180
10	24	2011	21	59	60.00	14	58	33.20844	-18	27	50.5667	1.324730434	-0.32	37.25	16.62	0.577E-01	-0.214E-01	-16.3783
10	25	2011	21	59	60.00	15	4	22.06955	-18	58	17.9061	1.314922483	-0.31	38.55	17.09	0.575E-01	-0.208E-01	-17.2451
10	26	2011	21	59	60.00	15	10	10.46851	-19	27	48.6684	1.304611068	-0.30	39.88	17.56	0.572E-01	-0.201E-01	-18.1191
10	27	2011	21	59	60.00	15	15	58.31489	-19	56	21.4417	1.293791781	-0.29	41.23	18.01	0.570E-01	-0.194E-01	-19.0011
10	28	2011	21	59	60.00	15	21	45.48717	-20	23	54.7680	1.282459838	-0.28	42.62	18.45	0.567E-01	-0.187E-01	-19.8917

10	29	2011	21	59	60.00	15	27	31.83031	-20	50	27.1395	1.270610157	-0.28	44.03	18.87	0.564E-01	-0.180E-01	-20.7914
10	30	2011	21	59	60.00	15	33	17.15337	-21	15	56.9977	1.258237438	-0.27	45.49	19.29	0.560E-01	-0.173E-01	-21.7003
10	31	2011	21	59	60.00	15	39	1.22653	-21	40	22.7348	1.245336246	-0.27	47.00	19.69	0.556E-01	-0.165E-01	-22.6188
11	1	2011	21	59	60.00	15	44	43.77699	-22	3	42.6954	1.231901107	-0.27	48.55	20.07	0.552E-01	-0.157E-01	-23.5467
11	2	2011	21	59	60.00	15	50	24.48380	-22	25	55.1775	1.217926646	-0.26	50.15	20.44	0.548E-01	-0.149E-01	-24.4838
11	3	2011	21	59	60.00	15	56	2.97164	-22	46	58.4323	1.203407743	-0.26	51.82	20.79	0.542E-01	-0.141E-01	-25.4294
11	4	2011	21	59	60.00	16	1	38.80387	-23	6	50.6631	1.188339744	-0.27	53.55	21.13	0.536E-01	-0.133E-01	-26.3826
11	5	2011	21	59	60.00	16	7	11.47472	-23	25	30.0245	1.172718710	-0.27	55.35	21.44	0.530E-01	-0.124E-01	-27.3419
11	6	2011	21	59	60.00	16	12	40.40054	-23	42	54.6216	1.156541722	-0.27	57.23	21.73	0.522E-01	-0.116E-01	-28.3051
11	7	2011	21	59	60.00	16	18	4.90998	-23	59	2.5088	1.139807245	-0.27	59.19	22.00	0.513E-01	-0.107E-01	-29.2696
11	8	2011	21	59	60.00	16	23	24.23299	-24	13	51.6888	1.122515568	-0.27	61.25	22.24	0.504E-01	-0.973E-02	-30.2318
11	9	2011	21	59	60.00	16	28	37.48863	-24	27	20.1100	1.104669333	-0.27	63.41	22.44	0.492E-01	-0.878E-02	-31.1871
11	10	2011	21	59	60.00	16	33	43.67150	-24	39	25.6628	1.086274164	-0.27	65.68	22.62	0.480E-01	-0.780E-02	-32.1298
11	11	2011	21	59	60.00	16	38	41.63682	-24	50	6.1743	1.067339423	-0.27	68.07	22.76	0.465E-01	-0.680E-02	-33.0526
11	12	2011	21	59	60.00	16	43	30.08441	-24	59	19.3994	1.047879113	-0.27	70.59	22.86	0.448E-01	-0.577E-02	-33.9466
11	13	2011	21	59	60.00	16	48	7.54149	-25	7	3.0091	1.027912947	-0.26	73.25	22.90	0.429E-01	-0.472E-02	-34.8010
11	14	2011	21	59	60.00	16	52	32.34511	-25	13	14.5729	1.007467625	-0.25	76.07	22.90	0.408E-01	-0.364E-02	-35.6024
11	15	2011	21	59	60.00	16	56	42.62462	-25	17	51.5350	0.986578324	-0.23	79.05	22.84	0.383E-01	-0.252E-02	-36.3348
11	16	2011	21	59	60.00	17	0	36.28557	-25	20	51.1835	0.965290441	-0.21	82.22	22.71	0.355E-01	-0.138E-02	-36.9788
11	17	2011	21	59	60.00	17	4	10.99687	-25	22	10.6105	0.943661607	-0.18	85.58	22.50	0.324E-01	-0.197E-03	-37.5114
11	18	2011	21	59	60.00	17	7	24.18368	-25	21	46.6627	0.921763966	-0.13	89.16	22.21	0.288E-01	0.102E-02	-37.9054
11	19	2011	21	59	60.00	17	10	13.03014	-25	19	35.8849	0.899686732	-0.07	92.97	21.83	0.247E-01	0.228E-02	-38.1289
11	20	2011	21	59	60.00	17	12	34.49684	-25	15	34.4596	0.877538957	0.00	97.03	21.34	0.202E-01	0.359E-02	-38.1452
11	21	2011	21	59	60.00	17	14	25.36018	-25	9	38.1548	0.855452433	0.09	101.35	20.72	0.152E-01	0.494E-02	-37.9123
11	22	2011	21	59	60.00	17	15	42.28242	-25	1	42.2963	0.833584559	0.21	105.96	19.98	0.961E-02	0.636E-02	-37.3838
11	23	2011	21	59	60.00	17	16	21.92285	-24	51	41.7955	0.812120918	0.36	110.86	19.10	0.350E-02	0.783E-02	-36.5089
11	24	2011	21	59	60.00	17	16	21.10169	-24	39	31.2826	0.791277159	0.55	116.08	18.05	-0.309E-02	0.937E-02	-35.2346
11	25	2011	21	59	60.00	17	15	37.02649	-24	25	5.4141	0.771299664	0.78	121.63	16.84	-0.101E-01	0.110E-01	-33.5083
11	26	2011	21	59	60.00	17	14	7.58557	-24	8	19.4443	0.752464313	1.07	127.50	15.46	-0.174E-01	0.126E-01	-31.2815
11	27	2011	21	59	60.00	17	11	51.70155	-23	49	10.1491	0.735072564	1.42	133.70	13.89	-0.248E-01	0.143E-01	-28.5150
11	28	2011	21	59	60.00	17	8	49.72084	-23	27	37.1626	0.719444110	1.84	140.23	12.14	-0.321E-01	0.159E-01	-25.1861
11	29	2011	21	59	60.00	17	5	3.79214	-23	3	44.7025	0.705905544	2.35	147.04	10.22	-0.389E-01	0.175E-01	-21.2949
11	30	2011	21	59	60.00	17	0	38.16408	-22	37	43.5201	0.694774951	2.94	154.12	8.15	-0.449E-01	0.189E-01	-16.8716
12	1	2011	21	59	60.00	16	55	39.31718	-22	9	52.7259	0.686343119	3.63	161.37	5.95	-0.498E-01	0.200E-01	-11.9809
12	2	2011	21	59	60.00	16	50	15.85069	-21	40	40.9762	0.680852991	4.41	168.64	3.71	-0.531E-01	0.207E-01	-6.7233
12	3	2011	21	59	60.00	16	44	38.07992	-21	10	46.4589	0.678479941	5.18	175.02	1.68	-0.547E-01	0.209E-01	-1.2308
12	4	2011	21	59	60.00	16	38	57.36248	-20	40	55.2815	0.679315947	5.02	173.74	1.84	-0.544E-01	0.206E-01	4.3423
12	5	2011	21	59	60.00	16	33	25.24512	-20	11	58.2506	0.683360509	4.21	166.86	3.91	-0.523E-01	0.197E-01	9.8330
12	6	2011	21	59	60.00	16	28	12.57726	-19	44	46.5267	0.690520103	3.44	159.47	6.14	-0.484E-01	0.181E-01	15.0851
12	7	2011	21	59	60.00	16	23	28.74829	-19	20	7.0117	0.700616284	2.76	152.12	8.29	-0.432E-01	0.161E-01	19.9632
12	8	2011	21	59	60.00	16	19	21.16727	-18	58	38.4111	0.713400866	2.17	144.94	10.31	-0.368E-01	0.137E-01	24.3627
12	9	2011	21	59	60.00	16	15	55.03478	-18	40	48.6647	0.728575446	1.68	138.00	12.16	-0.298E-01	0.111E-01	28.2148
12	10	2011	21	59	60.00	16	13	13.38577	-18	26	54.0092	0.745812171	1.26	131.34	13.84	-0.223E-01	0.830E-02	31.4861
12	11	2011	21	59	60.00	16	11	17.33378	-18	16	59.5066	0.764773088	0.92	124.99	15.32	-0.149E-01	0.553E-02	34.1741
12	12	2011	21	59	60.00	16	10	6.42969	-18	11	0.6131	0.785126289	0.64	118.96	16.62	-0.754E-02	0.285E-02	36.3011
12	13	2011	21	59	60.00	16	9	39.05602	-18	8	45.2815	0.806558019	0.42	113.26	17.74	-0.556E-03	0.353E-03	37.9064
12	14	2011	21	59	60.00	16	9	52.79993	-18	9	56.1687	0.828780731	0.24	107.89	18.68	0.599E-02	-0.192E-02	39.0402
12	15	2011	21	59	60.00	16	10	44.77189	-18	14	12.6517	0.851537553	0.09	102.83	19.47	0.120E-01	-0.395E-02	39.7578
12	16	2011	21	59	60.00	16	12	11.85754	-18	21	12.4966	0.874603928	-0.02	98.08	20.11	0.175E-01	-0.571E-02	40.1151
12	17	2011	21	59	60.00	16	14	10.90344	-18	30	33.1356	0.897787172	-0.11	93.62	20.63	0.225E-01	-0.721E-02	40.1660
12	18	2011	21	59	60.00	16	16	38.84492	-18	41	52.5731	0.920924663	-0.18	89.42	21.02	0.270E-01	-0.846E-02	39.9604
12	19	2011	21	59	60.00	16	19	32.78730	-18	54	49.9772	0.943881234	-0.24	85.49	21.31	0.310E-01	-0.948E-02	39.5433
12	20	2011	21	59	60.00	16	22	50.05168	-19	9	6.0248	0.966546172	-0.28	81.79	21.51	0.345E-01	-0.103E-01	38.9543

12 21	2011 21 59 60.00	16 26 28.19541 -19 24 23.0645	0.988830136	-0.31	78.32	21.63	0.377E-01	-0.109E-01	38.2278
12 22	2011 21 59 60.00	16 30 25.01548 -19 40 25.1500	1.010662182	-0.33	75.05	21.67	0.405E-01	-0.113E-01	37.3930
12 23	2011 21 59 60.00	16 34 38.54118 -19 56 57.9923	1.031986996	-0.34	71.98	21.66	0.430E-01	-0.116E-01	36.4749
12 24	2011 21 59 60.00	16 39 7.02045 -20 13 48.8607	1.052762392	-0.35	69.08	21.59	0.453E-01	-0.118E-01	35.4940
12 25	2011 21 59 60.00	16 43 48.90293 -20 30 46.4595	1.072957100	-0.36	66.35	21.46	0.472E-01	-0.118E-01	34.4675
12 26	2011 21 59 60.00	16 48 42.82141 -20 47 40.7935	1.092548831	-0.36	63.76	21.30	0.490E-01	-0.117E-01	33.4094
12 27	2011 21 59 60.00	16 53 47.57262 -21 4 23.0330	1.111522615	-0.36	61.31	21.10	0.506E-01	-0.115E-01	32.3312
12 28	2011 21 59 60.00	16 59 2.09850 -21 20 45.3832	1.129869385	-0.36	58.99	20.87	0.520E-01	-0.112E-01	31.2418
12 29	2011 21 59 60.00	17 4 25.46830 -21 36 40.9612	1.147584792	-0.36	56.79	20.60	0.532E-01	-0.109E-01	30.1485
12 30	2011 21 59 60.00	17 9 56.86238 -21 52 3.6836	1.164668212	-0.36	54.70	20.32	0.543E-01	-0.105E-01	29.0571
12 31	2011 21 59 60.00	17 15 35.55757 -22 6 48.1638	1.181121929	-0.36	52.70	20.00	0.554E-01	-0.999E-02	27.9718