

 EPHEMERIS OF SOLAR SYSTEM BODIES
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Planet 4 Mars
 Planetary theory INPOP08
 Apparent coordinates (true equator; equinoxe of the date)
 Frame center: topocenter: merchtem
 3 h 23 m 55.920 s E ; 4 d 11 ' 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	19 23 14.30579	-23 3 51.3423	2.379079437	1.20	5.57	8.16	0.322E-01	0.436E-02	0.0924
1 2	2011 21 59 60.00	19 26 34.34229	-22 57 24.6703	2.379172471	1.19	5.41	7.91	0.322E-01	0.454E-02	0.0607
1 3	2011 21 59 60.00	19 29 54.21653	-22 50 42.3302	2.379247989	1.19	5.25	7.67	0.322E-01	0.473E-02	0.0294
1 4	2011 21 59 60.00	19 33 13.91159	-22 43 44.4094	2.379306209	1.18	5.08	7.43	0.322E-01	0.491E-02	-0.0015
1 5	2011 21 59 60.00	19 36 33.41128	-22 36 30.9973	2.379347415	1.18	4.92	7.19	0.322E-01	0.508E-02	-0.0319
1 6	2011 21 59 60.00	19 39 52.70044	-22 29 2.1860	2.379371944	1.18	4.75	6.95	0.322E-01	0.526E-02	-0.0617
1 7	2011 21 59 60.00	19 43 11.76494	-22 21 18.0711	2.379380180	1.17	4.59	6.71	0.322E-01	0.544E-02	-0.0907
1 8	2011 21 59 60.00	19 46 30.59167	-22 13 18.7524	2.379372546	1.17	4.43	6.48	0.322E-01	0.561E-02	-0.1191
1 9	2011 21 59 60.00	19 49 49.16833	-22 5 4.3348	2.379349489	1.17	4.26	6.24	0.322E-01	0.579E-02	-0.1466
1 10	2011 21 59 60.00	19 53 7.48338	-21 56 34.9286	2.379311481	1.16	4.10	6.00	0.322E-01	0.596E-02	-0.1733
1 11	2011 21 59 60.00	19 56 25.52587	-21 47 50.6493	2.379259008	1.16	3.94	5.77	0.322E-01	0.613E-02	-0.1992
1 12	2011 21 59 60.00	19 59 43.28540	-21 38 51.6175	2.379192573	1.15	3.78	5.53	0.321E-01	0.630E-02	-0.2242
1 13	2011 21 59 60.00	20 3 0.75201	-21 29 37.9589	2.379112692	1.15	3.62	5.30	0.321E-01	0.647E-02	-0.2484
1 14	2011 21 59 60.00	20 6 17.91615	-21 20 9.8039	2.379019892	1.15	3.46	5.07	0.321E-01	0.664E-02	-0.2716
1 15	2011 21 59 60.00	20 9 34.76847	-21 10 27.2876	2.378914708	1.14	3.30	4.84	0.321E-01	0.680E-02	-0.2939
1 16	2011 21 59 60.00	20 12 51.29980	-21 0 30.5495	2.378797676	1.14	3.14	4.61	0.321E-01	0.696E-02	-0.3153
1 17	2011 21 59 60.00	20 16 7.50106	-20 50 19.7316	2.378669315	1.13	2.98	4.38	0.321E-01	0.713E-02	-0.3358
1 18	2011 21 59 60.00	20 19 23.36329	-20 39 54.9763	2.378530115	1.13	2.82	4.15	0.320E-01	0.729E-02	-0.3555
1 19	2011 21 59 60.00	20 22 38.87805	-20 29 16.4233	2.378380500	1.13	2.67	3.93	0.320E-01	0.745E-02	-0.3746
1 20	2011 21 59 60.00	20 25 54.03793	-20 18 24.2086	2.378220812	1.12	2.51	3.70	0.320E-01	0.760E-02	-0.3932
1 21	2011 21 59 60.00	20 29 8.83706	-20 7 18.4647	2.378051284	1.12	2.36	3.48	0.320E-01	0.776E-02	-0.4115
1 22	2011 21 59 60.00	20 32 23.27129	-19 55 59.3243	2.377872035	1.12	2.20	3.26	0.320E-01	0.791E-02	-0.4297
1 23	2011 21 59 60.00	20 35 37.33768	-19 44 26.9254	2.377683082	1.11	2.05	3.04	0.319E-01	0.807E-02	-0.4480
1 24	2011 21 59 60.00	20 38 51.03376	-19 32 41.4158	2.377484355	1.11	1.90	2.83	0.319E-01	0.822E-02	-0.4665
1 25	2011 21 59 60.00	20 42 4.35668	-19 20 42.9552	2.377275738	1.11	1.76	2.62	0.319E-01	0.837E-02	-0.4852
1 26	2011 21 59 60.00	20 45 17.30263	-19 8 31.7150	2.377057087	1.10	1.61	2.41	0.319E-01	0.851E-02	-0.5042
1 27	2011 21 59 60.00	20 48 29.86674	-18 56 7.8757	2.376828265	1.10	1.47	2.20	0.318E-01	0.866E-02	-0.5234
1 28	2011 21 59 60.00	20 51 42.04321	-18 43 31.6242	2.376589156	1.10	1.34	2.01	0.318E-01	0.880E-02	-0.5428
1 29	2011 21 59 60.00	20 54 53.82567	-18 30 43.1515	2.376339681	1.09	1.21	1.82	0.318E-01	0.894E-02	-0.5623
1 30	2011 21 59 60.00	20 58 5.20755	-18 17 42.6499	2.376079804	1.09	1.09	1.64	0.318E-01	0.908E-02	-0.5819
1 31	2011 21 59 60.00	21 1 16.18241	-18 4 30.3114	2.375809538	1.09	0.98	1.48	0.317E-01	0.921E-02	-0.6013
2 1	2011 21 59 60.00	21 4 26.74432	-17 51 6.3254	2.375528950	1.08	0.89	1.33	0.317E-01	0.935E-02	-0.6207
2 2	2011 21 59 60.00	21 7 36.88813	-17 37 30.8765	2.375238155	1.08	0.82	1.21	0.317E-01	0.948E-02	-0.6398
2 3	2011 21 59 60.00	21 10 46.60996	-17 23 44.1456	2.374937318	1.08	0.78	1.13	0.317E-01	0.961E-02	-0.6587
2 4	2011 21 59 60.00	21 13 55.90738	-17 9 46.3158	2.374626649	1.08	0.77	1.08	0.316E-01	0.974E-02	-0.6771
2 5	2011 21 59 60.00	21 17 4.77902	-16 55 37.5800	2.374306397	1.08	0.79	1.09	0.316E-01	0.986E-02	-0.6951

2	6	2011	21	59	60.00	21	20	13.22389	-16	41	18.1390	2.373976845	1.08	0.84	1.13	0.316E-01	0.998E-02	-0.7126
2	7	2011	21	59	60.00	21	23	21.24115	-16	26	48.1967	2.373638303	1.08	0.92	1.22	0.315E-01	0.101E-01	-0.7295
2	8	2011	21	59	60.00	21	26	28.83018	-16	12	7.9556	2.373291105	1.08	1.02	1.34	0.315E-01	0.102E-01	-0.7459
2	9	2011	21	59	60.00	21	29	35.99071	-15	57	17.6173	2.372935608	1.08	1.13	1.49	0.315E-01	0.103E-01	-0.7616
2	10	2011	21	59	60.00	21	32	42.72286	-15	42	17.3834	2.372572185	1.08	1.25	1.65	0.314E-01	0.105E-01	-0.7767
2	11	2011	21	59	60.00	21	35	49.02700	-15	27	7.4567	2.372201229	1.08	1.38	1.82	0.314E-01	0.106E-01	-0.7911
2	12	2011	21	59	60.00	21	38	54.90370	-15	11	48.0410	2.371823148	1.08	1.51	2.00	0.314E-01	0.107E-01	-0.8048
2	13	2011	21	59	60.00	21	42	0.35362	-14	56	19.3415	2.371438363	1.08	1.65	2.19	0.313E-01	0.108E-01	-0.8178
2	14	2011	21	59	60.00	21	45	5.37757	-14	40	41.5636	2.371047297	1.09	1.79	2.39	0.313E-01	0.109E-01	-0.8301
2	15	2011	21	59	60.00	21	48	9.97661	-14	24	54.9104	2.370650362	1.09	1.94	2.58	0.313E-01	0.110E-01	-0.8417
2	16	2011	21	59	60.00	21	51	14.15242	-14	8	59.5801	2.370247931	1.09	2.08	2.78	0.312E-01	0.111E-01	-0.8527
2	17	2011	21	59	60.00	21	54	17.90794	-13	52	55.7639	2.369840309	1.09	2.23	2.99	0.312E-01	0.112E-01	-0.8633
2	18	2011	21	59	60.00	21	57	21.24787	-13	36	43.6450	2.369427699	1.09	2.38	3.19	0.312E-01	0.113E-01	-0.8736
2	19	2011	21	59	60.00	22	0	24.17873	-13	20	23.4023	2.369010185	1.09	2.52	3.40	0.311E-01	0.114E-01	-0.8839
2	20	2011	21	59	60.00	22	3	26.70815	-13	3	55.2157	2.368587722	1.09	2.67	3.60	0.311E-01	0.115E-01	-0.8944
2	21	2011	21	59	60.00	22	6	28.84384	-12	47	19.2726	2.368160154	1.10	2.82	3.81	0.311E-01	0.115E-01	-0.9053
2	22	2011	21	59	60.00	22	9	30.59257	-12	30	35.7714	2.367727244	1.10	2.97	4.02	0.310E-01	0.116E-01	-0.9166
2	23	2011	21	59	60.00	22	12	31.95968	-12	13	44.9210	2.367288715	1.10	3.12	4.23	0.310E-01	0.117E-01	-0.9285
2	24	2011	21	59	60.00	22	15	32.94920	-11	56	46.9378	2.366844275	1.10	3.28	4.44	0.310E-01	0.118E-01	-0.9408
2	25	2011	21	59	60.00	22	18	33.56431	-11	39	42.0421	2.366393648	1.10	3.43	4.65	0.309E-01	0.119E-01	-0.9537
2	26	2011	21	59	60.00	22	21	33.80780	-11	22	30.4553	2.365936588	1.10	3.58	4.86	0.309E-01	0.120E-01	-0.9669
2	27	2011	21	59	60.00	22	24	33.68249	-11	5	12.3983	2.365472884	1.11	3.73	5.07	0.309E-01	0.120E-01	-0.9805
2	28	2011	21	59	60.00	22	27	33.19145	-10	47	48.0904	2.365002364	1.11	3.88	5.28	0.308E-01	0.121E-01	-0.9943
3	1	2011	21	59	60.00	22	30	32.33822	-10	30	17.7493	2.364524900	1.11	4.03	5.49	0.308E-01	0.122E-01	-1.0083
3	2	2011	21	59	60.00	22	33	31.12686	-10	12	41.5901	2.364040404	1.11	4.19	5.70	0.308E-01	0.122E-01	-1.0225
3	3	2011	21	59	60.00	22	36	29.56195	-09	54	59.8266	2.363548827	1.11	4.34	5.91	0.307E-01	0.123E-01	-1.0367
3	4	2011	21	59	60.00	22	39	27.64857	-09	37	12.6710	2.363050162	1.11	4.49	6.12	0.307E-01	0.124E-01	-1.0509
3	5	2011	21	59	60.00	22	42	25.39222	-09	19	20.3344	2.362544438	1.12	4.64	6.33	0.307E-01	0.124E-01	-1.0650
3	6	2011	21	59	60.00	22	45	22.79872	-09	1	23.0272	2.362031722	1.12	4.79	6.54	0.306E-01	0.125E-01	-1.0790
3	7	2011	21	59	60.00	22	48	19.87409	-08	43	20.9598	2.361512111	1.12	4.94	6.75	0.306E-01	0.125E-01	-1.0928
3	8	2011	21	59	60.00	22	51	16.62447	-08	25	14.3421	2.360985736	1.12	5.09	6.96	0.306E-01	0.126E-01	-1.1063
3	9	2011	21	59	60.00	22	54	13.05606	-08	7	3.3846	2.360452754	1.12	5.25	7.16	0.305E-01	0.126E-01	-1.1196
3	10	2011	21	59	60.00	22	57	9.17501	-07	48	48.2976	2.359913350	1.13	5.40	7.37	0.305E-01	0.127E-01	-1.1325
3	11	2011	21	59	60.00	23	0	4.98741	-07	30	29.2915	2.359367732	1.13	5.55	7.58	0.305E-01	0.127E-01	-1.1451
3	12	2011	21	59	60.00	23	3	0.49924	-07	12	6.5769	2.358816133	1.13	5.70	7.79	0.304E-01	0.128E-01	-1.1572
3	13	2011	21	59	60.00	23	5	55.71639	-06	53	40.3634	2.358258804	1.13	5.85	8.00	0.304E-01	0.128E-01	-1.1688
3	14	2011	21	59	60.00	23	8	50.64484	-06	35	10.8595	2.357696013	1.13	6.00	8.21	0.304E-01	0.128E-01	-1.1801
3	15	2011	21	59	60.00	23	11	45.29081	-06	16	38.2704	2.357128034	1.14	6.15	8.42	0.304E-01	0.129E-01	-1.1908
3	16	2011	21	59	60.00	23	14	39.66125	-05	58	2.7956	2.356555122	1.14	6.30	8.62	0.303E-01	0.129E-01	-1.2011
3	17	2011	21	59	60.00	23	17	33.76432	-05	39	24.6264	2.355977493	1.14	6.45	8.83	0.303E-01	0.129E-01	-1.2111
3	18	2011	21	59	60.00	23	20	27.60991	-05	20	43.9444	2.355395284	1.14	6.60	9.04	0.303E-01	0.130E-01	-1.2210
3	19	2011	21	59	60.00	23	23	21.20949	-05	2	0.9233	2.354808526	1.14	6.75	9.24	0.302E-01	0.130E-01	-1.2309
3	20	2011	21	59	60.00	23	26	14.57539	-04	43	15.7344	2.354217116	1.15	6.90	9.45	0.302E-01	0.130E-01	-1.2411
3	21	2011	21	59	60.00	23	29	7.71959	-04	24	28.5539	2.353620824	1.15	7.05	9.66	0.302E-01	0.130E-01	-1.2518
3	22	2011	21	59	60.00	23	32	0.65275	-04	5	39.5674	2.353019311	1.15	7.20	9.87	0.302E-01	0.131E-01	-1.2631
3	23	2011	21	59	60.00	23	34	53.38379	-03	46	48.9713	2.352412163	1.15	7.34	10.07	0.301E-01	0.131E-01	-1.2752
3	24	2011	21	59	60.00	23	37	45.92021	-03	27	56.9699	2.351798931	1.15	7.49	10.28	0.301E-01	0.131E-01	-1.2881
3	25	2011	21	59	60.00	23	40	38.26869	-03	9	3.7711	2.351179164	1.16	7.64	10.49	0.301E-01	0.131E-01	-1.3018
3	26	2011	21	59	60.00	23	43	30.43566	-02	50	9.5832	2.350552428	1.16	7.79	10.69	0.301E-01	0.131E-01	-1.3162
3	27	2011	21	59	60.00	23	46	22.42759	-02	31	14.6130	2.349918322	1.16	7.94	10.90	0.301E-01	0.131E-01	-1.3312
3	28	2011	21	59	60.00	23	49	14.25117	-02	12	19.0654	2.349276477	1.16	8.09	11.10	0.300E-01	0.131E-01	-1.3469
3	29	2011	21	59	60.00	23	52	5.91336	-01	53	23.1424	2.348626562	1.17	8.24	11.31	0.300E-01	0.131E-01	-1.3630
3	30	2011	21	59	60.00	23	54	57.42140	-01	34	27.0438	2.347968280	1.17	8.38	11.52	0.300E-01	0.131E-01	-1.3797

3	31	2011	21	59	60.00	23	57	48.78273	-01	15	30.96669	2.347301370	1.17	8.53	11.72	0.300E-01	0.131E-01	-1.3968
4	1	2011	21	59	60.00	0	0	40.00495	-00	56	35.1071	2.346625605	1.17	8.68	11.93	0.299E-01	0.131E-01	-1.4142
4	2	2011	21	59	60.00	0	3	31.09568	-00	37	39.6584	2.345940793	1.17	8.83	12.14	0.299E-01	0.131E-01	-1.4319
4	3	2011	21	59	60.00	0	6	22.06251	-00	18	44.8133	2.345246779	1.18	8.97	12.34	0.299E-01	0.131E-01	-1.4499
4	4	2011	21	59	60.00	0	9	12.91290	+00	0	9.2363	2.344543444	1.18	9.12	12.55	0.299E-01	0.131E-01	-1.4680
4	5	2011	21	59	60.00	0	12	3.65410	+00	19	2.2990	2.343830706	1.18	9.27	12.75	0.299E-01	0.131E-01	-1.4862
4	6	2011	21	59	60.00	0	14	54.29310	+00	37	54.1839	2.343108519	1.18	9.42	12.96	0.298E-01	0.131E-01	-1.5044
4	7	2011	21	59	60.00	0	17	44.83657	+00	56	44.6999	2.342376873	1.19	9.56	13.17	0.298E-01	0.131E-01	-1.5226
4	8	2011	21	59	60.00	0	20	35.29090	+01	15	33.6561	2.341635794	1.19	9.71	13.37	0.298E-01	0.131E-01	-1.5408
4	9	2011	21	59	60.00	0	23	25.66224	+01	34	20.8620	2.340885338	1.19	9.86	13.58	0.298E-01	0.130E-01	-1.5588
4	10	2011	21	59	60.00	0	26	15.95662	+01	53	6.1276	2.340125592	1.19	10.00	13.79	0.298E-01	0.130E-01	-1.5766
4	11	2011	21	59	60.00	0	29	6.18021	+02	11	49.2652	2.339356665	1.20	10.15	13.99	0.297E-01	0.130E-01	-1.5942
4	12	2011	21	59	60.00	0	31	56.33961	+02	30	30.0904	2.338578683	1.20	10.29	14.20	0.297E-01	0.130E-01	-1.6116
4	13	2011	21	59	60.00	0	34	46.44224	+02	49	8.4243	2.337791772	1.20	10.44	14.40	0.297E-01	0.129E-01	-1.6287
4	14	2011	21	59	60.00	0	37	36.49678	+03	7	44.0961	2.336996036	1.20	10.58	14.61	0.297E-01	0.129E-01	-1.6457
4	15	2011	21	59	60.00	0	40	26.51335	+03	26	16.9442	2.336191531	1.21	10.73	14.82	0.297E-01	0.129E-01	-1.6627
4	16	2011	21	59	60.00	0	43	16.50331	+03	44	46.8157	2.335378226	1.21	10.87	15.02	0.297E-01	0.128E-01	-1.6797
4	17	2011	21	59	60.00	0	46	6.47847	+04	3	13.5620	2.334555980	1.21	11.02	15.23	0.297E-01	0.128E-01	-1.6972
4	18	2011	21	59	60.00	0	48	56.45000	+04	21	37.0325	2.333724524	1.21	11.16	15.44	0.296E-01	0.128E-01	-1.7151
4	19	2011	21	59	60.00	0	51	46.42761	+04	39	57.0690	2.332883467	1.21	11.31	15.64	0.296E-01	0.127E-01	-1.7339
4	20	2011	21	59	60.00	0	54	36.41928	+04	58	13.5030	2.332032318	1.22	11.45	15.85	0.296E-01	0.127E-01	-1.7535
4	21	2011	21	59	60.00	0	57	26.43170	+05	16	26.1582	2.331170524	1.22	11.60	16.06	0.296E-01	0.126E-01	-1.7741
4	22	2011	21	59	60.00	1	0	16.47085	+05	34	34.8538	2.330297505	1.22	11.74	16.26	0.296E-01	0.126E-01	-1.7957
4	23	2011	21	59	60.00	1	3	6.54261	+05	52	39.4085	2.329412679	1.22	11.89	16.47	0.296E-01	0.125E-01	-1.8183
4	24	2011	21	59	60.00	1	5	56.65288	+06	10	39.6426	2.328515485	1.23	12.03	16.68	0.296E-01	0.125E-01	-1.8418
4	25	2011	21	59	60.00	1	8	46.80772	+06	28	35.3787	2.327605389	1.23	12.18	16.89	0.296E-01	0.124E-01	-1.8662
4	26	2011	21	59	60.00	1	11	37.01326	+06	46	26.4424	2.326681889	1.23	12.32	17.09	0.296E-01	0.124E-01	-1.8914
4	27	2011	21	59	60.00	1	14	27.27567	+07	4	12.6620	2.325744515	1.23	12.46	17.30	0.296E-01	0.123E-01	-1.9174
4	28	2011	21	59	60.00	1	17	17.60108	+07	21	53.8680	2.324792828	1.24	12.61	17.51	0.295E-01	0.123E-01	-1.9441
4	29	2011	21	59	60.00	1	20	7.99545	+07	39	29.8935	2.323826422	1.24	12.75	17.72	0.295E-01	0.122E-01	-1.9714
4	30	2011	21	59	60.00	1	22	58.46449	+07	57	0.5728	2.322844922	1.24	12.90	17.93	0.295E-01	0.122E-01	-1.9994
5	1	2011	21	59	60.00	1	25	49.01357	+08	14	25.7419	2.321847988	1.24	13.04	18.14	0.295E-01	0.121E-01	-2.0279
5	2	2011	21	59	60.00	1	28	39.64765	+08	31	45.2378	2.320835317	1.25	13.18	18.35	0.295E-01	0.120E-01	-2.0569
5	3	2011	21	59	60.00	1	31	30.37119	+08	48	58.8980	2.319806648	1.25	13.33	18.56	0.295E-01	0.120E-01	-2.0862
5	4	2011	21	59	60.00	1	34	21.18810	+09	6	6.5602	2.318761766	1.25	13.47	18.77	0.295E-01	0.119E-01	-2.1159
5	5	2011	21	59	60.00	1	37	12.10175	+09	23	8.0621	2.317700500	1.25	13.61	18.98	0.295E-01	0.118E-01	-2.1459
5	6	2011	21	59	60.00	1	40	3.11507	+09	40	3.2408	2.316622727	1.26	13.76	19.19	0.295E-01	0.117E-01	-2.1759
5	7	2011	21	59	60.00	1	42	54.23068	+09	56	51.9338	2.315528368	1.26	13.90	19.40	0.295E-01	0.117E-01	-2.2061
5	8	2011	21	59	60.00	1	45	45.45120	+10	13	33.9790	2.314417385	1.26	14.04	19.62	0.295E-01	0.116E-01	-2.2363
5	9	2011	21	59	60.00	1	48	36.77953	+10	30	9.2167	2.313289774	1.26	14.18	19.83	0.295E-01	0.115E-01	-2.2664
5	10	2011	21	59	60.00	1	51	28.21922	+10	46	37.4909	2.312145556	1.27	14.33	20.04	0.295E-01	0.114E-01	-2.2965
5	11	2011	21	59	60.00	1	54	19.77481	+11	2	58.6517	2.310984761	1.27	14.47	20.25	0.294E-01	0.113E-01	-2.3265
5	12	2011	21	59	60.00	1	57	11.45202	+11	19	12.5566	2.309807412	1.27	14.61	20.47	0.294E-01	0.113E-01	-2.3565
5	13	2011	21	59	60.00	2	0	3.25765	+11	35	19.0722	2.308613496	1.27	14.75	20.68	0.294E-01	0.112E-01	-2.3865
5	14	2011	21	59	60.00	2	2	55.19922	+11	51	18.0728	2.307402940	1.28	14.90	20.89	0.294E-01	0.111E-01	-2.4167
5	15	2011	21	59	60.00	2	5	47.28421	+12	7	9.4376	2.306175583	1.28	15.04	21.11	0.294E-01	0.110E-01	-2.4472
5	16	2011	21	59	60.00	2	8	39.51923	+12	22	53.0453	2.304931152	1.28	15.18	21.32	0.294E-01	0.109E-01	-2.4784
5	17	2011	21	59	60.00	2	11	31.90948	+12	38	28.7691	2.303669261	1.28	15.32	21.54	0.294E-01	0.108E-01	-2.5102
5	18	2011	21	59	60.00	2	14	24.45868	+12	53	56.4747	2.302389416	1.29	15.46	21.75	0.294E-01	0.107E-01	-2.5430
5	19	2011	21	59	60.00	2	17	17.16947	+13	9	16.0206	2.301091041	1.29	15.60	21.97	0.294E-01	0.106E-01	-2.5768
5	20	2011	21	59	60.00	2	20	10.04405	+13	24	27.2612	2.299773510	1.29	15.75	22.19	0.294E-01	0.105E-01	-2.6117
5	21	2011	21	59	60.00	2	23	3.08452	+13	39	30.0507	2.298436172	1.29	15.89	22.40	0.294E-01	0.104E-01	-2.6477
5	22	2011	21	59	60.00	2	25	56.29306	+13	54	24.2452	2.297078380	1.30	16.03	22.62	0.294E-01	0.103E-01	-2.6848

5 23	2011	21	59	60.00	2 28	49.67182	+14	9	9.7039	2.295699500	1.30	16.17	22.84	0.294E-01	0.102E-01	-2.7230
5 24	2011	21	59	60.00	2 31	43.22284	+14	23	46.2894	2.294298924	1.30	16.31	23.06	0.294E-01	0.101E-01	-2.7622
5 25	2011	21	59	60.00	2 34	36.94798	+14	38	13.8678	2.292876071	1.30	16.45	23.28	0.294E-01	0.100E-01	-2.8023
5 26	2011	21	59	60.00	2 37	30.84876	+14	52	32.3083	2.291430387	1.31	16.59	23.50	0.294E-01	0.993E-02	-2.8434
5 27	2011	21	59	60.00	2 40	24.92632	+15	6	41.4831	2.289961348	1.31	16.74	23.72	0.294E-01	0.983E-02	-2.8853
5 28	2011	21	59	60.00	2 43	19.18126	+15	20	41.2665	2.288468458	1.31	16.88	23.94	0.294E-01	0.972E-02	-2.9281
5 29	2011	21	59	60.00	2 46	13.61361	+15	34	31.5352	2.286951252	1.31	17.02	24.16	0.294E-01	0.961E-02	-2.9716
5 30	2011	21	59	60.00	2 49	8.22274	+15	48	12.1677	2.285409303	1.32	17.16	24.39	0.294E-01	0.950E-02	-3.0158
5 31	2011	21	59	60.00	2 52	3.00724	+16	1	43.0436	2.283842226	1.32	17.30	24.61	0.294E-01	0.938E-02	-3.0606
6 1	2011	21	59	60.00	2 54	57.96494	+16	15	4.0431	2.282249685	1.32	17.44	24.83	0.294E-01	0.927E-02	-3.1060
6 2	2011	21	59	60.00	2 57	53.09288	+16	28	15.0465	2.280631399	1.32	17.58	25.06	0.294E-01	0.915E-02	-3.1517
6 3	2011	21	59	60.00	3 0	48.38754	+16	41	15.9336	2.278987147	1.32	17.72	25.28	0.293E-01	0.904E-02	-3.1978
6 4	2011	21	59	60.00	3 3	43.84511	+16	54	6.5841	2.277316768	1.33	17.86	25.51	0.293E-01	0.892E-02	-3.2441
6 5	2011	21	59	60.00	3 6	39.46191	+17	6	46.8785	2.275620159	1.33	18.00	25.73	0.293E-01	0.880E-02	-3.2905
6 6	2011	21	59	60.00	3 9	35.23484	+17	19	16.6999	2.273897264	1.33	18.15	25.96	0.293E-01	0.868E-02	-3.3370
6 7	2011	21	59	60.00	3 12	31.16170	+17	31	35.9362	2.272148061	1.33	18.29	26.19	0.293E-01	0.856E-02	-3.3835
6 8	2011	21	59	60.00	3 15	27.24138	+17	43	44.4823	2.270372548	1.34	18.43	26.42	0.293E-01	0.843E-02	-3.4299
6 9	2011	21	59	60.00	3 18	23.47384	+17	55	42.2413	2.268570721	1.34	18.57	26.65	0.293E-01	0.831E-02	-3.4764
6 10	2011	21	59	60.00	3 21	19.85971	+18	7	29.1251	2.266742551	1.34	18.71	26.88	0.293E-01	0.818E-02	-3.5229
6 11	2011	21	59	60.00	3 24	16.39981	+18	19	5.0528	2.264887958	1.34	18.85	27.11	0.293E-01	0.806E-02	-3.5697
6 12	2011	21	59	60.00	3 27	13.09448	+18	30	29.9477	2.263006792	1.34	18.99	27.34	0.293E-01	0.793E-02	-3.6167
6 13	2011	21	59	60.00	3 30	9.94305	+18	41	43.7335	2.261098812	1.35	19.13	27.57	0.293E-01	0.780E-02	-3.6643
6 14	2011	21	59	60.00	3 33	6.94368	+18	52	46.3309	2.259163677	1.35	19.27	27.80	0.293E-01	0.767E-02	-3.7125
6 15	2011	21	59	60.00	3 36	4.09341	+19	3	37.6552	2.257200949	1.35	19.41	28.04	0.293E-01	0.754E-02	-3.7615
6 16	2011	21	59	60.00	3 39	1.38866	+19	14	17.6172	2.255210103	1.35	19.55	28.27	0.292E-01	0.741E-02	-3.8115
6 17	2011	21	59	60.00	3 41	58.82557	+19	24	46.1255	2.253190548	1.36	19.69	28.51	0.292E-01	0.728E-02	-3.8626
6 18	2011	21	59	60.00	3 44	56.40036	+19	35	3.0896	2.251141656	1.36	19.83	28.74	0.292E-01	0.715E-02	-3.9147
6 19	2011	21	59	60.00	3 47	54.10928	+19	45	8.4216	2.249062777	1.36	19.97	28.98	0.292E-01	0.701E-02	-3.9680
6 20	2011	21	59	60.00	3 50	51.94852	+19	55	2.0381	2.246953264	1.36	20.11	29.22	0.292E-01	0.688E-02	-4.0224
6 21	2011	21	59	60.00	3 53	49.91402	+20	4	43.8605	2.244812480	1.36	20.24	29.46	0.292E-01	0.674E-02	-4.0779
6 22	2011	21	59	60.00	3 56	48.00138	+20	14	13.8148	2.242639809	1.37	20.38	29.70	0.292E-01	0.661E-02	-4.1344
6 23	2011	21	59	60.00	3 59	46.20571	+20	23	31.8317	2.240434655	1.37	20.52	29.94	0.292E-01	0.647E-02	-4.1919
6 24	2011	21	59	60.00	4 2	44.52158	+20	32	37.8458	2.238196446	1.37	20.66	30.18	0.292E-01	0.633E-02	-4.2504
6 25	2011	21	59	60.00	4 5	42.94293	+20	41	31.7959	2.235924637	1.37	20.80	30.42	0.292E-01	0.619E-02	-4.3098
6 26	2011	21	59	60.00	4 8	41.46298	+20	50	13.6238	2.233618709	1.37	20.94	30.67	0.291E-01	0.605E-02	-4.3701
6 27	2011	21	59	60.00	4 11	40.07418	+20	58	43.2747	2.231268175	1.37	21.08	30.91	0.291E-01	0.591E-02	-4.4311
6 28	2011	21	59	60.00	4 14	38.76812	+21	7	0.6963	2.228902589	1.38	21.22	31.16	0.291E-01	0.577E-02	-4.4929
6 29	2011	21	59	60.00	4 17	37.53545	+21	15	5.8381	2.226491551	1.38	21.36	31.40	0.291E-01	0.563E-02	-4.5554
6 30	2011	21	59	60.00	4 20	36.36599	+21	22	58.6502	2.224044724	1.38	21.50	31.65	0.291E-01	0.548E-02	-4.6184
7 1	2011	21	59	60.00	4 23	35.24895	+21	30	39.0827	2.221561839	1.38	21.64	31.90	0.291E-01	0.534E-02	-4.6817
7 2	2011	21	59	60.00	4 26	34.17337	+21	38	7.0851	2.219042703	1.38	21.78	32.15	0.290E-01	0.520E-02	-4.7453
7 3	2011	21	59	60.00	4 29	33.12873	+21	45	22.6077	2.216487199	1.38	21.92	32.40	0.290E-01	0.505E-02	-4.8091
7 4	2011	21	59	60.00	4 32	32.10546	+21	52	25.6039	2.213895276	1.39	22.06	32.65	0.290E-01	0.491E-02	-4.8729
7 5	2011	21	59	60.00	4 35	31.09526	+21	59	16.0327	2.211266937	1.39	22.19	32.90	0.290E-01	0.477E-02	-4.9367
7 6	2011	21	59	60.00	4 38	30.09112	+22	5	53.8612	2.208602211	1.39	22.33	33.16	0.290E-01	0.462E-02	-5.0004
7 7	2011	21	59	60.00	4 41	29.08695	+22	12	19.0654	2.205901136	1.39	22.47	33.41	0.289E-01	0.448E-02	-5.0640
7 8	2011	21	59	60.00	4 44	28.07706	+22	18	31.6297	2.203163723	1.39	22.61	33.67	0.289E-01	0.433E-02	-5.1277
7 9	2011	21	59	60.00	4 47	27.05559	+22	24	31.5451	2.200389945	1.39	22.75	33.92	0.289E-01	0.418E-02	-5.1915
7 10	2011	21	59	60.00	4 50	26.01606	+22	30	18.8060	2.197579706	1.39	22.89	34.18	0.289E-01	0.404E-02	-5.2555
7 11	2011	21	59	60.00	4 53	24.95115	+22	35	53.4071	2.194732834	1.40	23.02	34.44	0.288E-01	0.389E-02	-5.3198
7 12	2011	21	59	60.00	4 56	23.85276	+22	41	15.3411	2.191849074	1.40	23.16	34.70	0.288E-01	0.375E-02	-5.3847
7 13	2011	21	59	60.00	4 59	22.71231	+22	46	24.5978	2.188928081	1.40	23.30	34.96	0.288E-01	0.360E-02	-5.4503
7 14	2011	21	59	60.00	5 2	21.52106	+22	51	21.1645	2.185969435	1.40	23.44	35.22	0.288E-01	0.345E-02	-5.5166

7 15	2011 21 59 60.00	5 5	20.27040	+22 56	5.0285	2.182972649	1.40	23.58	35.48	0.287E-01	0.331E-02	-5.5838
7 16	2011 21 59 60.00	5 8	18.95200	+23 0	36.1786	2.179937184	1.40	23.71	35.75	0.287E-01	0.316E-02	-5.6520
7 17	2011 21 59 60.00	5 11	17.55772	+23 4	54.6080	2.176862475	1.40	23.85	36.01	0.287E-01	0.301E-02	-5.7212
7 18	2011 21 59 60.00	5 14	16.07942	+23 9	0.3147	2.173747937	1.40	23.99	36.28	0.286E-01	0.287E-02	-5.7915
7 19	2011 21 59 60.00	5 17	14.50884	+23 12	53.3025	2.170592988	1.40	24.13	36.55	0.286E-01	0.272E-02	-5.8627
7 20	2011 21 59 60.00	5 20	12.83737	+23 16	33.5811	2.167397052	1.41	24.26	36.81	0.286E-01	0.258E-02	-5.9349
7 21	2011 21 59 60.00	5 23	11.05598	+23 20	1.1654	2.164159566	1.41	24.40	37.08	0.285E-01	0.243E-02	-6.0081
7 22	2011 21 59 60.00	5 26	9.15513	+23 23	16.0756	2.160879986	1.41	24.54	37.36	0.285E-01	0.228E-02	-6.0822
7 23	2011 21 59 60.00	5 29	7.12477	+23 26	18.3367	2.157557788	1.41	24.67	37.63	0.285E-01	0.214E-02	-6.1572
7 24	2011 21 59 60.00	5 32	4.95420	+23 29	7.9778	2.154192469	1.41	24.81	37.90	0.284E-01	0.199E-02	-6.2331
7 25	2011 21 59 60.00	5 35	2.63205	+23 31	45.0320	2.150783555	1.41	24.95	38.18	0.284E-01	0.185E-02	-6.3097
7 26	2011 21 59 60.00	5 38	0.14618	+23 34	9.5360	2.147330603	1.41	25.09	38.45	0.284E-01	0.170E-02	-6.3871
7 27	2011 21 59 60.00	5 40	57.48362	+23 36	21.5289	2.143833216	1.41	25.22	38.73	0.283E-01	0.156E-02	-6.4652
7 28	2011 21 59 60.00	5 43	54.63070	+23 38	21.0515	2.140291053	1.41	25.36	39.01	0.283E-01	0.142E-02	-6.5437
7 29	2011 21 59 60.00	5 46	51.57325	+23 40	8.1441	2.136703849	1.41	25.49	39.29	0.283E-01	0.127E-02	-6.6227
7 30	2011 21 59 60.00	5 49	48.29718	+23 41	42.8458	2.133071421	1.41	25.63	39.57	0.282E-01	0.113E-02	-6.7019
7 31	2011 21 59 60.00	5 52	44.78915	+23 43	5.1952	2.129393682	1.41	25.77	39.86	0.282E-01	0.987E-03	-6.7812
8 1	2011 21 59 60.00	5 55	41.03724	+23 44	15.2330	2.125670635	1.41	25.90	40.14	0.281E-01	0.846E-03	-6.8604
8 2	2011 21 59 60.00	5 58	37.03117	+23 45	13.0048	2.121902357	1.41	26.04	40.43	0.281E-01	0.705E-03	-6.9395
8 3	2011 21 59 60.00	6 1	32.76217	+23 45	58.5638	2.118088972	1.41	26.17	40.71	0.280E-01	0.565E-03	-7.0183
8 4	2011 21 59 60.00	6 4	28.22230	+23 46	31.9720	2.114230622	1.41	26.31	41.00	0.280E-01	0.425E-03	-7.0968
8 5	2011 21 59 60.00	6 7	23.40386	+23 46	53.2983	2.110327431	1.41	26.44	41.29	0.279E-01	0.287E-03	-7.1752
8 6	2011 21 59 60.00	6 10	18.29888	+23 47	2.6160	2.106379479	1.41	26.58	41.58	0.279E-01	0.148E-03	-7.2536
8 7	2011 21 59 60.00	6 13	12.89889	+23 46	59.9998	2.102386787	1.41	26.71	41.88	0.278E-01	0.111E-04	-7.3319
8 8	2011 21 59 60.00	6 16	7.19502	+23 46	45.5233	2.098349302	1.41	26.85	42.17	0.278E-01	-0.126E-03	-7.4104
8 9	2011 21 59 60.00	6 19	1.17823	+23 46	19.2577	2.094266895	1.41	26.98	42.46	0.277E-01	-0.261E-03	-7.4892
8 10	2011 21 59 60.00	6 21	54.83961	+23 45	41.2718	2.090139361	1.41	27.11	42.76	0.277E-01	-0.396E-03	-7.5684
8 11	2011 21 59 60.00	6 24	48.17057	+23 44	51.6330	2.085966426	1.41	27.25	43.06	0.276E-01	-0.531E-03	-7.6482
8 12	2011 21 59 60.00	6 27	41.16307	+23 43	50.4087	2.081747758	1.41	27.38	43.36	0.276E-01	-0.664E-03	-7.7286
8 13	2011 21 59 60.00	6 30	33.80952	+23 42	37.6686	2.077482972	1.41	27.51	43.66	0.275E-01	-0.796E-03	-7.8097
8 14	2011 21 59 60.00	6 33	26.10270	+23 41	13.4858	2.073171648	1.41	27.65	43.96	0.275E-01	-0.928E-03	-7.8915
8 15	2011 21 59 60.00	6 36	18.03557	+23 39	37.9384	2.068813342	1.41	27.78	44.27	0.274E-01	-0.106E-02	-7.9742
8 16	2011 21 59 60.00	6 39	9.60106	+23 37	51.1094	2.064407597	1.41	27.91	44.57	0.274E-01	-0.119E-02	-8.0576
8 17	2011 21 59 60.00	6 42	0.79191	+23 35	53.0874	2.059953957	1.41	28.04	44.88	0.273E-01	-0.132E-02	-8.1419
8 18	2011 21 59 60.00	6 44	51.60050	+23 33	43.9661	2.055451965	1.41	28.17	45.19	0.273E-01	-0.144E-02	-8.2269
8 19	2011 21 59 60.00	6 47	42.01884	+23 31	23.8442	2.050901180	1.41	28.31	45.50	0.272E-01	-0.157E-02	-8.3127
8 20	2011 21 59 60.00	6 50	32.03850	+23 28	52.8245	2.046301172	1.41	28.44	45.81	0.272E-01	-0.170E-02	-8.3992
8 21	2011 21 59 60.00	6 53	21.65057	+23 26	11.0139	2.041651530	1.41	28.57	46.12	0.271E-01	-0.182E-02	-8.4864
8 22	2011 21 59 60.00	6 56	10.84555	+23 23	18.5228	2.036951864	1.41	28.70	46.43	0.270E-01	-0.194E-02	-8.5743
8 23	2011 21 59 60.00	6 58	59.61333	+23 20	15.4647	2.032201813	1.40	28.83	46.75	0.270E-01	-0.206E-02	-8.6627
8 24	2011 21 59 60.00	7 1	47.94313	+23 17	1.9556	2.027401051	1.40	28.96	47.07	0.269E-01	-0.218E-02	-8.7517
8 25	2011 21 59 60.00	7 4	35.82364	+23 13	38.1127	2.022549306	1.40	29.09	47.39	0.269E-01	-0.230E-02	-8.8412
8 26	2011 21 59 60.00	7 7	23.24322	+23 10	4.0523	2.017646373	1.40	29.22	47.71	0.268E-01	-0.242E-02	-8.9309
8 27	2011 21 59 60.00	7 10	10.19042	+23 6	19.8886	2.012692135	1.40	29.35	48.03	0.267E-01	-0.254E-02	-9.0207
8 28	2011 21 59 60.00	7 12	56.65464	+23 2	25.7333	2.007686580	1.40	29.48	48.36	0.267E-01	-0.265E-02	-9.1105
8 29	2011 21 59 60.00	7 15	42.62687	+22 58	21.6975	2.002629806	1.40	29.61	48.68	0.266E-01	-0.276E-02	-9.2000
8 30	2011 21 59 60.00	7 18	28.09984	+22 54	7.8950	1.997522009	1.39	29.73	49.01	0.265E-01	-0.288E-02	-9.2891
8 31	2011 21 59 60.00	7 21	13.06773	+22 49	44.4453	1.992363461	1.39	29.86	49.34	0.265E-01	-0.299E-02	-9.3777
9 1	2011 21 59 60.00	7 23	57.52540	+22 45	11.4744	1.987154470	1.39	29.99	49.67	0.264E-01	-0.310E-02	-9.4657
9 2	2011 21 59 60.00	7 26	41.46766	+22 40	29.1132	1.981895339	1.39	30.11	50.01	0.263E-01	-0.320E-02	-9.5532
9 3	2011 21 59 60.00	7 29	24.88902	+22 35	37.4940	1.976586332	1.39	30.24	50.34	0.262E-01	-0.331E-02	-9.6404
9 4	2011 21 59 60.00	7 32	7.78369	+22 30	36.7476	1.971227654	1.38	30.37	50.68	0.262E-01	-0.341E-02	-9.7272
9 5	2011 21 59 60.00	7 34	50.14598	+22 25	27.0006	1.965819436	1.38	30.49	51.02	0.261E-01	-0.352E-02	-9.8139

9	6	2011	21	59	60.00	7	37	31.97049	+22	20	8.3760	1.960361737	1.38	30.61	51.36	0.260E-01	-0.362E-02	-9.9006
9	7	2011	21	59	60.00	7	40	13.25237	+22	14	40.9938	1.954854547	1.38	30.74	51.70	0.260E-01	-0.372E-02	-9.9873
9	8	2011	21	59	60.00	7	42	53.98737	+22	9	4.9725	1.949297793	1.38	30.86	52.04	0.259E-01	-0.382E-02	-10.0742
9	9	2011	21	59	60.00	7	45	34.17185	+22	3	20.4301	1.943691349	1.37	30.99	52.39	0.258E-01	-0.392E-02	-10.1613
9	10	2011	21	59	60.00	7	48	13.80265	+21	57	27.4863	1.938035044	1.37	31.11	52.74	0.257E-01	-0.401E-02	-10.2488
9	11	2011	21	59	60.00	7	50	52.87696	+21	51	26.2631	1.932328669	1.37	31.23	53.08	0.257E-01	-0.411E-02	-10.3367
9	12	2011	21	59	60.00	7	53	31.39209	+21	45	16.8862	1.926571989	1.37	31.35	53.44	0.256E-01	-0.420E-02	-10.4250
9	13	2011	21	59	60.00	7	56	9.34532	+21	38	59.4855	1.920764749	1.36	31.47	53.79	0.255E-01	-0.429E-02	-10.5137
9	14	2011	21	59	60.00	7	58	46.73366	+21	32	34.1950	1.914906686	1.36	31.59	54.14	0.255E-01	-0.439E-02	-10.6029
9	15	2011	21	59	60.00	8	1	23.55375	+21	26	1.1534	1.908997531	1.36	31.71	54.50	0.254E-01	-0.447E-02	-10.6925
9	16	2011	21	59	60.00	8	3	59.80177	+21	19	20.5033	1.903037020	1.35	31.83	54.86	0.253E-01	-0.456E-02	-10.7826
9	17	2011	21	59	60.00	8	6	35.47340	+21	12	32.3910	1.897024899	1.35	31.95	55.22	0.252E-01	-0.465E-02	-10.8732
9	18	2011	21	59	60.00	8	9	10.56374	+21	5	36.9663	1.890960928	1.35	32.07	55.58	0.251E-01	-0.473E-02	-10.9641
9	19	2011	21	59	60.00	8	11	45.06732	+20	58	34.3815	1.884844882	1.34	32.18	55.94	0.251E-01	-0.481E-02	-11.0554
9	20	2011	21	59	60.00	8	14	18.97802	+20	51	24.7917	1.878676565	1.34	32.30	56.31	0.250E-01	-0.489E-02	-11.1470
9	21	2011	21	59	60.00	8	16	52.28910	+20	44	8.3536	1.872455810	1.34	32.42	56.68	0.249E-01	-0.497E-02	-11.2388
9	22	2011	21	59	60.00	8	19	24.99336	+20	36	45.2249	1.866182498	1.33	32.53	57.05	0.248E-01	-0.505E-02	-11.3308
9	23	2011	21	59	60.00	8	21	57.08330	+20	29	15.5621	1.859856571	1.33	32.65	57.42	0.248E-01	-0.512E-02	-11.4229
9	24	2011	21	59	60.00	8	24	28.55156	+20	21	39.5194	1.853478054	1.32	32.76	57.80	0.247E-01	-0.520E-02	-11.5147
9	25	2011	21	59	60.00	8	26	59.39149	+20	13	57.2476	1.847047076	1.32	32.87	58.17	0.246E-01	-0.527E-02	-11.6063
9	26	2011	21	59	60.00	8	29	29.59766	+20	6	8.8954	1.840563885	1.32	32.98	58.55	0.245E-01	-0.534E-02	-11.6973
9	27	2011	21	59	60.00	8	31	59.16609	+19	58	14.6116	1.834028850	1.31	33.10	58.93	0.244E-01	-0.540E-02	-11.7876
9	28	2011	21	59	60.00	8	34	28.09376	+19	50	14.5483	1.827442440	1.31	33.21	59.32	0.243E-01	-0.547E-02	-11.8769
9	29	2011	21	59	60.00	8	36	56.37795	+19	42	8.8620	1.820805190	1.30	33.32	59.70	0.242E-01	-0.553E-02	-11.9653
9	30	2011	21	59	60.00	8	39	24.01563	+19	33	57.7122	1.814117654	1.30	33.42	60.09	0.242E-01	-0.560E-02	-12.0528
10	1	2011	21	59	60.00	8	41	51.00336	+19	25	41.2577	1.807380361	1.29	33.53	60.48	0.241E-01	-0.566E-02	-12.1394
10	2	2011	21	59	60.00	8	44	17.33762	+19	17	19.6525	1.800593783	1.29	33.64	60.87	0.240E-01	-0.572E-02	-12.2251
10	3	2011	21	59	60.00	8	46	43.01533	+19	8	53.0445	1.793758322	1.28	33.74	61.27	0.239E-01	-0.577E-02	-12.3103
10	4	2011	21	59	60.00	8	49	8.03407	+19	0	21.5761	1.786874307	1.28	33.85	61.66	0.238E-01	-0.583E-02	-12.3949
10	5	2011	21	59	60.00	8	51	32.39215	+18	51	45.3863	1.779942000	1.27	33.95	62.06	0.237E-01	-0.589E-02	-12.4791
10	6	2011	21	59	60.00	8	53	56.08846	+18	43	4.6126	1.772961603	1.27	34.05	62.46	0.236E-01	-0.594E-02	-12.5630
10	7	2011	21	59	60.00	8	56	19.12234	+18	34	19.3922	1.765933271	1.26	34.15	62.86	0.235E-01	-0.599E-02	-12.6466
10	8	2011	21	59	60.00	8	58	41.49340	+18	25	29.8637	1.758857117	1.26	34.25	63.27	0.234E-01	-0.604E-02	-12.7301
10	9	2011	21	59	60.00	9	1	3.20138	+18	16	36.1676	1.751733219	1.25	34.35	63.68	0.233E-01	-0.609E-02	-12.8134
10	10	2011	21	59	60.00	9	3	24.24592	+18	7	38.4473	1.744561632	1.25	34.45	64.09	0.232E-01	-0.613E-02	-12.8966
10	11	2011	21	59	60.00	9	5	44.62641	+17	58	36.8502	1.737342387	1.24	34.55	64.50	0.232E-01	-0.618E-02	-12.9798
10	12	2011	21	59	60.00	9	8	4.34181	+17	49	31.5273	1.730075500	1.23	34.64	64.91	0.231E-01	-0.622E-02	-13.0629
10	13	2011	21	59	60.00	9	10	23.39051	+17	40	22.6341	1.722760980	1.23	34.74	65.33	0.230E-01	-0.626E-02	-13.1460
10	14	2011	21	59	60.00	9	12	41.77021	+17	31	10.3300	1.715398833	1.22	34.83	65.75	0.229E-01	-0.630E-02	-13.2291
10	15	2011	21	59	60.00	9	14	59.47791	+17	21	54.7787	1.707989070	1.21	34.92	66.17	0.228E-01	-0.633E-02	-13.3121
10	16	2011	21	59	60.00	9	17	16.50980	+17	12	36.1471	1.700531712	1.21	35.01	66.60	0.227E-01	-0.637E-02	-13.3951
10	17	2011	21	59	60.00	9	19	32.86134	+17	3	14.6055	1.693026798	1.20	35.10	67.02	0.226E-01	-0.640E-02	-13.4779
10	18	2011	21	59	60.00	9	21	48.52719	+16	53	50.3264	1.685474391	1.19	35.19	67.45	0.225E-01	-0.643E-02	-13.5606
10	19	2011	21	59	60.00	9	24	3.50136	+16	44	23.4844	1.677874589	1.19	35.28	67.89	0.224E-01	-0.646E-02	-13.6431
10	20	2011	21	59	60.00	9	26	17.77733	+16	34	54.2547	1.670227531	1.18	35.36	68.32	0.223E-01	-0.649E-02	-13.7252
10	21	2011	21	59	60.00	9	28	31.34826	+16	25	22.8122	1.662533418	1.17	35.45	68.76	0.222E-01	-0.652E-02	-13.8069
10	22	2011	21	59	60.00	9	30	44.20732	+16	15	49.3302	1.654792530	1.17	35.53	69.20	0.221E-01	-0.654E-02	-13.8880
10	23	2011	21	59	60.00	9	32	56.34806	+16	6	13.9794	1.647005245	1.16	35.61	69.64	0.220E-01	-0.656E-02	-13.9684
10	24	2011	21	59	60.00	9	35	7.76470	+15	56	36.9284	1.639172060	1.15	35.69	70.09	0.219E-01	-0.658E-02	-14.0477
10	25	2011	21	59	60.00	9	37	18.45217	+15	46	58.3455	1.631293599	1.14	35.77	70.54	0.218E-01	-0.660E-02	-14.1258
10	26	2011	21	59	60.00	9	39	28.40572	+15	37	18.4008	1.623370608	1.14	35.84	70.99	0.217E-01	-0.661E-02	-14.2025
10	27	2011	21	59	60.00	9	41	37.62037	+15	27	37.2677	1.615403923	1.13	35.92	71.44	0.215E-01	-0.662E-02	-14.2777
10	28	2011	21	59	60.00	9	43	46.09059	+15	17	55.1210	1.607394432	1.12	35.99	71.90	0.214E-01	-0.664E-02	-14.3513

10 29	2011 21 59 60.00	9 45 53.81043 +15 8 12.1335	1.599343021	1.11	36.06	72.36	0.213E-01	-0.664E-02	-14.4233
10 30	2011 21 59 60.00	9 48 0.77411 +14 58 28.4720	1.591250536	1.10	36.13	72.83	0.212E-01	-0.665E-02	-14.4939
10 31	2011 21 59 60.00	9 50 6.97654 +14 48 44.2956	1.583117764	1.09	36.19	73.29	0.211E-01	-0.666E-02	-14.5632
11 1	2011 21 59 60.00	9 52 12.41355 +14 38 59.7570	1.574945416	1.08	36.26	73.76	0.210E-01	-0.666E-02	-14.6312
11 2	2011 21 59 60.00	9 54 17.08174 +14 29 15.0048	1.566734139	1.08	36.32	74.24	0.209E-01	-0.667E-02	-14.6982
11 3	2011 21 59 60.00	9 56 20.97816 +14 19 30.1870	1.558484522	1.07	36.38	74.71	0.207E-01	-0.667E-02	-14.7641
11 4	2011 21 59 60.00	9 58 24.10003 +14 9 45.4523	1.550197110	1.06	36.44	75.19	0.206E-01	-0.666E-02	-14.8291
11 5	2011 21 59 60.00	10 0 26.44451 +14 0 0.9512	1.541872407	1.05	36.49	75.67	0.205E-01	-0.666E-02	-14.8933
11 6	2011 21 59 60.00	10 2 28.00857 +13 50 16.8369	1.533510892	1.04	36.55	76.16	0.204E-01	-0.666E-02	-14.9565
11 7	2011 21 59 60.00	10 4 28.78875 +13 40 33.2663	1.525113018	1.03	36.60	76.64	0.203E-01	-0.665E-02	-15.0190
11 8	2011 21 59 60.00	10 6 28.78105 +13 30 50.4004	1.516679221	1.02	36.65	77.13	0.201E-01	-0.664E-02	-15.0807
11 9	2011 21 59 60.00	10 8 27.98079 +13 21 8.4045	1.508209919	1.01	36.69	77.63	0.200E-01	-0.663E-02	-15.1416
11 10	2011 21 59 60.00	10 10 26.38243 +13 11 27.4493	1.499705523	1.00	36.74	78.13	0.199E-01	-0.662E-02	-15.2018
11 11	2011 21 59 60.00	10 12 23.97949 +13 1 47.7105	1.491166436	0.99	36.78	78.63	0.198E-01	-0.660E-02	-15.2612
11 12	2011 21 59 60.00	10 14 20.76443 +12 52 9.3695	1.482593063	0.98	36.82	79.13	0.196E-01	-0.659E-02	-15.3199
11 13	2011 21 59 60.00	10 16 16.72863 +12 42 32.6125	1.473985819	0.97	36.86	79.64	0.195E-01	-0.657E-02	-15.3779
11 14	2011 21 59 60.00	10 18 11.86241 +12 32 57.6304	1.465345140	0.95	36.89	80.15	0.194E-01	-0.655E-02	-15.4350
11 15	2011 21 59 60.00	10 20 6.15512 +12 23 24.6175	1.456671486	0.94	36.93	80.67	0.192E-01	-0.652E-02	-15.4912
11 16	2011 21 59 60.00	10 21 59.59523 +12 13 53.7709	1.447965362	0.93	36.96	81.19	0.191E-01	-0.650E-02	-15.5464
11 17	2011 21 59 60.00	10 23 52.17055 +12 4 25.2897	1.439227321	0.92	36.98	81.71	0.189E-01	-0.647E-02	-15.6007
11 18	2011 21 59 60.00	10 25 43.86844 +11 54 59.3732	1.430457987	0.91	37.01	82.24	0.188E-01	-0.644E-02	-15.6537
11 19	2011 21 59 60.00	10 27 34.67601 +11 45 36.2207	1.421658064	0.90	37.03	82.77	0.187E-01	-0.641E-02	-15.7053
11 20	2011 21 59 60.00	10 29 24.58030 +11 36 16.0305	1.412828361	0.88	37.04	83.30	0.185E-01	-0.638E-02	-15.7554
11 21	2011 21 59 60.00	10 31 13.56832 +11 26 59.0007	1.403969803	0.87	37.06	83.84	0.184E-01	-0.634E-02	-15.8038
11 22	2011 21 59 60.00	10 33 1.62699 +11 17 45.3297	1.395083445	0.86	37.07	84.38	0.182E-01	-0.630E-02	-15.8502
11 23	2011 21 59 60.00	10 34 48.74273 +11 8 35.2184	1.386170470	0.85	37.08	84.93	0.180E-01	-0.626E-02	-15.8943
11 24	2011 21 59 60.00	10 36 34.90124 +10 59 28.8700	1.377232170	0.83	37.08	85.48	0.179E-01	-0.621E-02	-15.9361
11 25	2011 21 59 60.00	10 38 20.08750 +10 50 26.4883	1.368269915	0.82	37.08	86.04	0.177E-01	-0.617E-02	-15.9754
11 26	2011 21 59 60.00	10 40 4.28609 +10 41 28.2747	1.359285105	0.81	37.08	86.60	0.176E-01	-0.612E-02	-16.0123
11 27	2011 21 59 60.00	10 41 47.48197 +10 32 34.4244	1.350279130	0.79	37.07	87.16	0.174E-01	-0.607E-02	-16.0467
11 28	2011 21 59 60.00	10 43 29.66093 +10 23 45.1240	1.341253338	0.78	37.07	87.73	0.172E-01	-0.601E-02	-16.0787
11 29	2011 21 59 60.00	10 45 10.80978 +10 15 0.5535	1.332209017	0.77	37.05	88.30	0.170E-01	-0.596E-02	-16.1086
11 30	2011 21 59 60.00	10 46 50.91600 +10 6 20.8889	1.323147399	0.75	37.03	88.88	0.169E-01	-0.590E-02	-16.1362
12 1	2011 21 59 60.00	10 48 29.96732 +09 57 46.3062	1.314069662	0.74	37.01	89.46	0.167E-01	-0.584E-02	-16.1619
12 2	2011 21 59 60.00	10 50 7.95130 +09 49 16.9831	1.304976944	0.72	36.99	90.05	0.165E-01	-0.578E-02	-16.1855
12 3	2011 21 59 60.00	10 51 44.85503 +09 40 53.1012	1.295870353	0.71	36.96	90.64	0.163E-01	-0.572E-02	-16.2071
12 4	2011 21 59 60.00	10 53 20.66495 +09 32 34.8461	1.286750976	0.69	36.92	91.24	0.161E-01	-0.565E-02	-16.2269
12 5	2011 21 59 60.00	10 54 55.36666 +09 24 22.4086	1.277619888	0.68	36.89	91.84	0.159E-01	-0.559E-02	-16.2447
12 6	2011 21 59 60.00	10 56 28.94486 +09 16 15.9847	1.268478152	0.66	36.84	92.45	0.157E-01	-0.552E-02	-16.2606
12 7	2011 21 59 60.00	10 58 1.38317 +09 8 15.7765	1.259326824	0.65	36.80	93.06	0.155E-01	-0.544E-02	-16.2746
12 8	2011 21 59 60.00	10 59 32.66403 +09 0 21.9928	1.250166957	0.63	36.74	93.68	0.153E-01	-0.537E-02	-16.2867
12 9	2011 21 59 60.00	11 1 2.76852 +08 52 34.8493	1.240999603	0.62	36.69	94.30	0.151E-01	-0.529E-02	-16.2970
12 10	2011 21 59 60.00	11 2 31.67627 +08 44 54.5696	1.231825821	0.60	36.63	94.93	0.149E-01	-0.521E-02	-16.3053
12 11	2011 21 59 60.00	11 3 59.36538 +08 37 21.3847	1.222646686	0.58	36.56	95.56	0.147E-01	-0.513E-02	-16.3117
12 12	2011 21 59 60.00	11 5 25.81245 +08 29 55.5324	1.213463300	0.57	36.49	96.20	0.145E-01	-0.504E-02	-16.3160
12 13	2011 21 59 60.00	11 6 50.99270 +08 22 37.2562	1.204276806	0.55	36.41	96.84	0.143E-01	-0.496E-02	-16.3183
12 14	2011 21 59 60.00	11 8 14.88016 +08 15 26.8041	1.195088406	0.53	36.33	97.49	0.141E-01	-0.487E-02	-16.3184
12 15	2011 21 59 60.00	11 9 37.44781 +08 8 24.4271	1.185899379	0.52	36.24	98.15	0.138E-01	-0.477E-02	-16.3160
12 16	2011 21 59 60.00	11 10 58.66787 +08 1 30.3779	1.176711092	0.50	36.15	98.81	0.136E-01	-0.467E-02	-16.3112
12 17	2011 21 59 60.00	11 12 18.51182 +07 54 44.9101	1.167525024	0.48	36.05	99.48	0.133E-01	-0.457E-02	-16.3036
12 18	2011 21 59 60.00	11 13 36.95052 +07 48 8.2780	1.158342776	0.46	35.95	100.16	0.131E-01	-0.447E-02	-16.2930
12 19	2011 21 59 60.00	11 14 53.95406 +07 41 40.7371	1.149166084	0.44	35.84	100.84	0.128E-01	-0.437E-02	-16.2793
12 20	2011 21 59 60.00	11 16 9.49163 +07 35 22.5443	1.139996827	0.43	35.72	101.53	0.126E-01	-0.426E-02	-16.2620

12 21	2011 21 59 60.00	11 17 23.53137 +07 29 13.9587	1.130837019	0.41	35.60	102.22	0.123E-01	-0.414E-02	-16.2411
12 22	2011 21 59 60.00	11 18 36.04037 +07 23 15.2405	1.121688802	0.39	35.47	102.93	0.120E-01	-0.403E-02	-16.2163
12 23	2011 21 59 60.00	11 19 46.98497 +07 17 26.6489	1.112554414	0.37	35.33	103.64	0.118E-01	-0.391E-02	-16.1875
12 24	2011 21 59 60.00	11 20 56.33139 +07 11 48.4389	1.103436156	0.35	35.19	104.35	0.115E-01	-0.379E-02	-16.1545
12 25	2011 21 59 60.00	11 22 4.04637 +07 6 20.8574	1.094336356	0.33	35.04	105.08	0.112E-01	-0.367E-02	-16.1174
12 26	2011 21 59 60.00	11 23 10.09763 +07 1 4.1420	1.085257334	0.31	34.88	105.81	0.109E-01	-0.354E-02	-16.0763
12 27	2011 21 59 60.00	11 24 14.45396 +06 55 58.5224	1.076201382	0.29	34.72	106.55	0.106E-01	-0.341E-02	-16.0311
12 28	2011 21 59 60.00	11 25 17.08478 +06 51 4.2229	1.067170762	0.27	34.55	107.30	0.103E-01	-0.328E-02	-15.9819
12 29	2011 21 59 60.00	11 26 17.95972 +06 46 21.4663	1.058167703	0.25	34.37	108.05	0.997E-02	-0.315E-02	-15.9288
12 30	2011 21 59 60.00	11 27 17.04801 +06 41 50.4770	1.049194412	0.23	34.18	108.81	0.965E-02	-0.301E-02	-15.8718
12 31	2011 21 59 60.00	11 28 14.31826 +06 37 31.4824	1.040253086	0.21	33.98	109.59	0.933E-02	-0.287E-02	-15.8108