

 EPHEMERIS OF SOLAR SYSTEM BODIES
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Planet 6 Saturn
 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	13 5 16.40773	-04 20 3.9477	9.630405240	1.20	5.86	84.29	0.169E-02	-0.508E-03	-29.0796
1 2	2011 21 59 60.00	13 5 26.15207	-04 20 46.4537	9.613853383	1.20	5.87	85.27	0.163E-02	-0.480E-03	-29.1221
1 3	2011 21 59 60.00	13 5 35.52374	-04 21 26.5666	9.597278269	1.20	5.87	86.25	0.156E-02	-0.452E-03	-29.1557
1 4	2011 21 59 60.00	13 5 44.51882	-04 22 4.2683	9.580685065	1.19	5.88	87.23	0.150E-02	-0.424E-03	-29.1801
1 5	2011 21 59 60.00	13 5 53.13399	-04 22 39.5431	9.564078965	1.19	5.88	88.21	0.143E-02	-0.396E-03	-29.1954
1 6	2011 21 59 60.00	13 6 1.36667	-04 23 12.3797	9.547465169	1.19	5.89	89.19	0.136E-02	-0.368E-03	-29.2016
1 7	2011 21 59 60.00	13 6 9.21494	-04 23 42.7708	9.530848868	1.18	5.89	90.18	0.130E-02	-0.340E-03	-29.1987
1 8	2011 21 59 60.00	13 6 16.67747	-04 24 10.7129	9.514235236	1.18	5.88	91.16	0.123E-02	-0.312E-03	-29.1867
1 9	2011 21 59 60.00	13 6 23.75328	-04 24 36.2052	9.497629424	1.18	5.88	92.15	0.116E-02	-0.284E-03	-29.1657
1 10	2011 21 59 60.00	13 6 30.44170	-04 24 59.2496	9.481036560	1.17	5.88	93.14	0.109E-02	-0.255E-03	-29.1357
1 11	2011 21 59 60.00	13 6 36.74218	-04 25 19.8491	9.4644461739	1.17	5.87	94.13	0.102E-02	-0.227E-03	-29.0968
1 12	2011 21 59 60.00	13 6 42.65427	-04 25 38.0080	9.447910030	1.16	5.86	95.13	0.954E-03	-0.199E-03	-29.0491
1 13	2011 21 59 60.00	13 6 48.17751	-04 25 53.7309	9.431386465	1.16	5.85	96.12	0.886E-03	-0.170E-03	-28.9925
1 14	2011 21 59 60.00	13 6 53.31131	-04 26 7.0220	9.414896030	1.16	5.84	97.12	0.817E-03	-0.142E-03	-28.9272
1 15	2011 21 59 60.00	13 6 58.05480	-04 26 17.8841	9.398443665	1.15	5.82	98.12	0.747E-03	-0.114E-03	-28.8533
1 16	2011 21 59 60.00	13 7 2.40672	-04 26 26.3175	9.382034247	1.15	5.81	99.11	0.678E-03	-0.853E-04	-28.7709
1 17	2011 21 59 60.00	13 7 6.36525	-04 26 32.3183	9.365672587	1.14	5.79	100.12	0.609E-03	-0.570E-04	-28.6801
1 18	2011 21 59 60.00	13 7 9.92814	-04 26 35.8786	9.349363430	1.14	5.77	101.12	0.539E-03	-0.286E-04	-28.5810
1 19	2011 21 59 60.00	13 7 13.09294	-04 26 36.9868	9.333111469	1.13	5.75	102.12	0.470E-03	-0.303E-06	-28.4737
1 20	2011 21 59 60.00	13 7 15.85762	-04 26 35.6320	9.316921371	1.13	5.73	103.13	0.400E-03	0.280E-04	-28.3582
1 21	2011 21 59 60.00	13 7 18.22104	-04 26 31.8074	9.300797809	1.12	5.70	104.14	0.330E-03	0.563E-04	-28.2345
1 22	2011 21 59 60.00	13 7 20.18324	-04 26 25.5143	9.284745513	1.12	5.68	105.15	0.260E-03	0.846E-04	-28.1024
1 23	2011 21 59 60.00	13 7 21.74518	-04 26 16.7612	9.268769301	1.11	5.65	106.16	0.190E-03	0.113E-03	-27.9617
1 24	2011 21 59 60.00	13 7 22.90817	-04 26 5.5621	9.252874104	1.11	5.62	107.17	0.120E-03	0.141E-03	-27.8123
1 25	2011 21 59 60.00	13 7 23.67327	-04 25 51.9320	9.237064975	1.10	5.59	108.18	0.496E-04	0.169E-03	-27.6539
1 26	2011 21 59 60.00	13 7 24.04094	-04 25 35.8836	9.221347076	1.10	5.56	109.20	-0.208E-04	0.198E-03	-27.4864
1 27	2011 21 59 60.00	13 7 24.01092	-04 25 17.4264	9.205725664	1.09	5.52	110.22	-0.911E-04	0.226E-03	-27.3096
1 28	2011 21 59 60.00	13 7 23.58251	-04 24 56.5661	9.190206068	1.09	5.48	111.23	-0.161E-03	0.254E-03	-27.1234
1 29	2011 21 59 60.00	13 7 22.75476	-04 24 33.3059	9.174793662	1.08	5.44	112.25	-0.232E-03	0.282E-03	-26.9278
1 30	2011 21 59 60.00	13 7 21.52687	-04 24 7.6488	9.159493844	1.08	5.40	113.28	-0.302E-03	0.310E-03	-26.7227
1 31	2011 21 59 60.00	13 7 19.89841	-04 23 39.5986	9.144312016	1.07	5.36	114.30	-0.372E-03	0.337E-03	-26.5081
2 1	2011 21 59 60.00	13 7 17.86960	-04 23 9.1622	9.129253560	1.07	5.32	115.33	-0.441E-03	0.365E-03	-26.2841
2 2	2011 21 59 60.00	13 7 15.44135	-04 22 36.3498	9.114323824	1.06	5.27	116.35	-0.511E-03	0.392E-03	-26.0509
2 3	2011 21 59 60.00	13 7 12.61528	-04 22 1.1764	9.099528107	1.06	5.22	117.38	-0.580E-03	0.419E-03	-25.8084
2 4	2011 21 59 60.00	13 7 9.39371	-04 21 23.6608	9.084871644	1.05	5.18	118.41	-0.649E-03	0.446E-03	-25.5567
2 5	2011 21 59 60.00	13 7 5.77950	-04 20 43.8259	9.070359597	1.04	5.12	119.44	-0.717E-03	0.472E-03	-25.2961

2	6	2011	21	59	60.00	13	7	1.77589	-04	20	1.6974	9.055997048	1.04	5.07	120.47	-0.785E-03	0.499E-03	-25.0267
2	7	2011	21	59	60.00	13	6	57.38640	-04	19	17.3030	9.041788998	1.03	5.02	121.51	-0.852E-03	0.525E-03	-24.7486
2	8	2011	21	59	60.00	13	6	52.61468	-04	18	30.6721	9.027740358	1.03	4.96	122.54	-0.919E-03	0.551E-03	-24.4620
2	9	2011	21	59	60.00	13	6	47.46442	-04	17	41.8347	9.013855948	1.02	4.90	123.58	-0.986E-03	0.576E-03	-24.1670
2	10	2011	21	59	60.00	13	6	41.93931	-04	16	50.8207	9.000140493	1.02	4.84	124.61	-0.105E-02	0.602E-03	-23.8638
2	11	2011	21	59	60.00	13	6	36.04289	-04	15	57.6595	8.986598618	1.01	4.78	125.65	-0.112E-02	0.627E-03	-23.5527
2	12	2011	21	59	60.00	13	6	29.77845	-04	15	2.3787	8.973234838	1.00	4.72	126.69	-0.118E-02	0.651E-03	-23.2337
2	13	2011	21	59	60.00	13	6	23.14897	-04	14	5.0036	8.960053554	1.00	4.65	127.73	-0.125E-02	0.675E-03	-22.9071
2	14	2011	21	59	60.00	13	6	16.15703	-04	13	5.5562	8.947059045	0.99	4.59	128.77	-0.131E-02	0.699E-03	-22.5731
2	15	2011	21	59	60.00	13	6	8.80495	-04	12	4.0550	8.934255474	0.99	4.52	129.82	-0.137E-02	0.723E-03	-22.2319
2	16	2011	21	59	60.00	13	6	1.09506	-04	11	0.5164	8.921646893	0.98	4.45	130.86	-0.143E-02	0.746E-03	-21.8837
2	17	2011	21	59	60.00	13	5	53.03032	-04	9	54.9585	8.909237276	0.97	4.38	131.90	-0.149E-02	0.770E-03	-21.5286
2	18	2011	21	59	60.00	13	5	44.61476	-04	8	47.4058	8.897030554	0.97	4.31	132.95	-0.155E-02	0.792E-03	-21.1666
2	19	2011	21	59	60.00	13	5	35.85367	-04	7	37.8914	8.885030668	0.96	4.23	134.00	-0.161E-02	0.815E-03	-20.7976
2	20	2011	21	59	60.00	13	5	26.75319	-04	6	26.4566	8.873241606	0.96	4.16	135.05	-0.167E-02	0.837E-03	-20.4216
2	21	2011	21	59	60.00	13	5	17.31948	-04	5	13.1460	8.861667432	0.95	4.08	136.09	-0.173E-02	0.858E-03	-20.0385
2	22	2011	21	59	60.00	13	5	7.55808	-04	3	58.0031	8.850312282	0.94	4.00	137.14	-0.179E-02	0.879E-03	-19.6481
2	23	2011	21	59	60.00	13	4	57.47369	-04	2	41.0669	8.839180347	0.94	3.92	138.20	-0.185E-02	0.900E-03	-19.2503
2	24	2011	21	59	60.00	13	4	47.07034	-04	1	22.3722	8.828275842	0.93	3.84	139.25	-0.190E-02	0.921E-03	-18.8451
2	25	2011	21	59	60.00	13	4	36.35184	-04	0	1.9505	8.817602972	0.92	3.76	140.30	-0.196E-02	0.941E-03	-18.4327
2	26	2011	21	59	60.00	13	4	25.32216	-03	58	39.8330	8.807165902	0.92	3.68	141.35	-0.201E-02	0.960E-03	-18.0130
2	27	2011	21	59	60.00	13	4	13.98571	-03	57	16.0526	8.796968733	0.91	3.59	142.41	-0.206E-02	0.979E-03	-17.5862
2	28	2011	21	59	60.00	13	4	2.34752	-03	55	50.6444	8.787015479	0.91	3.51	143.46	-0.211E-02	0.998E-03	-17.1525
3	1	2011	21	59	60.00	13	3	50.41332	-03	54	23.6478	8.777310060	0.90	3.42	144.52	-0.217E-02	0.102E-02	-16.7120
3	2	2011	21	59	60.00	13	3	38.18952	-03	52	55.1055	8.767856279	0.89	3.33	145.58	-0.222E-02	0.103E-02	-16.2650
3	3	2011	21	59	60.00	13	3	25.68315	-03	51	25.0648	8.758657821	0.89	3.24	146.63	-0.226E-02	0.105E-02	-15.8117
3	4	2011	21	59	60.00	13	3	12.90183	-03	49	53.5761	8.749718237	0.88	3.15	147.69	-0.231E-02	0.107E-02	-15.3523
3	5	2011	21	59	60.00	13	2	59.85358	-03	48	20.6932	8.741040940	0.88	3.06	148.75	-0.236E-02	0.108E-02	-14.8871
3	6	2011	21	59	60.00	13	2	46.54672	-03	46	46.4719	8.732629198	0.87	2.96	149.81	-0.240E-02	0.110E-02	-14.4164
3	7	2011	21	59	60.00	13	2	32.98968	-03	45	10.9695	8.724486128	0.86	2.87	150.86	-0.244E-02	0.111E-02	-13.9403
3	8	2011	21	59	60.00	13	2	19.19097	-03	43	34.2435	8.716614694	0.86	2.77	151.92	-0.249E-02	0.113E-02	-13.4592
3	9	2011	21	59	60.00	13	2	5.15898	-03	41	56.3515	8.709017704	0.85	2.67	152.98	-0.253E-02	0.114E-02	-12.9733
3	10	2011	21	59	60.00	13	1	50.90197	-03	40	17.3498	8.701697806	0.84	2.58	154.04	-0.257E-02	0.115E-02	-12.4830
3	11	2011	21	59	60.00	13	1	36.42792	-03	38	37.2931	8.694657488	0.84	2.48	155.10	-0.260E-02	0.116E-02	-11.9885
3	12	2011	21	59	60.00	13	1	21.74454	-03	36	56.2337	8.687899072	0.83	2.38	156.16	-0.264E-02	0.118E-02	-11.4900
3	13	2011	21	59	60.00	13	1	6.85918	-03	35	14.2208	8.681424716	0.83	2.28	157.22	-0.267E-02	0.119E-02	-10.9880
3	14	2011	21	59	60.00	13	0	51.77893	-03	33	31.3012	8.675236411	0.82	2.18	158.27	-0.271E-02	0.120E-02	-10.4826
3	15	2011	21	59	60.00	13	0	36.51071	-03	31	47.5187	8.669335986	0.82	2.08	159.33	-0.274E-02	0.121E-02	-9.9742
3	16	2011	21	59	60.00	13	0	21.06164	-03	30	2.9167	8.663725128	0.81	1.97	160.39	-0.277E-02	0.122E-02	-9.4630
3	17	2011	21	59	60.00	13	0	5.43946	-03	28	17.5412	8.658405402	0.80	1.87	161.44	-0.280E-02	0.122E-02	-8.9492
3	18	2011	21	59	60.00	12	59	49.65293	-03	26	31.4443	8.653378298	0.80	1.77	162.49	-0.282E-02	0.123E-02	-8.4328
3	19	2011	21	59	60.00	12	59	33.71188	-03	24	44.6864	8.648645274	0.79	1.66	163.55	-0.285E-02	0.124E-02	-7.9138
3	20	2011	21	59	60.00	12	59	17.62661	-03	22	57.3341	8.644207800	0.79	1.56	164.60	-0.287E-02	0.125E-02	-7.3923
3	21	2011	21	59	60.00	12	59	1.40708	-03	21	9.4545	8.640067383	0.78	1.45	165.64	-0.290E-02	0.125E-02	-6.8682
3	22	2011	21	59	60.00	12	58	45.06226	-03	19	21.1108	8.636225565	0.78	1.35	166.69	-0.292E-02	0.126E-02	-6.3414
3	23	2011	21	59	60.00	12	58	28.60001	-03	17	32.3594	8.632683896	0.77	1.24	167.73	-0.294E-02	0.126E-02	-5.8119
3	24	2011	21	59	60.00	12	58	12.02755	-03	15	43.2512	8.629443896	0.76	1.14	168.77	-0.296E-02	0.127E-02	-5.2799
3	25	2011	21	59	60.00	12	57	55.35200	-03	13	53.8349	8.626507016	0.76	1.04	169.80	-0.297E-02	0.127E-02	-4.7455
3	26	2011	21	59	60.00	12	57	38.58088	-03	12	4.1599	8.623874603	0.75	0.93	170.82	-0.299E-02	0.127E-02	-4.2088
3	27	2011	21	59	60.00	12	57	21.72227	-03	10	14.2781	8.621547878	0.75	0.83	171.83	-0.300E-02	0.127E-02	-3.6702
3	28	2011	21	59	60.00	12	57	4.78486	-03	8	24.2444	8.619527916	0.74	0.73	172.83	-0.302E-02	0.128E-02	-3.1299
3	29	2011	21	59	60.00	12	56	47.77793	-03	6	34.1173	8.617815644	0.74	0.63	173.80	-0.303E-02	0.128E-02	-2.5881
3	30	2011	21	59	60.00	12	56	30.71128	-03	4	43.9581	8.616411827	0.73	0.53	174.74	-0.304E-02	0.128E-02	-2.0452

3	31	2011	21	59	60.00	12	56	13.59509	-03	2	53.8308	8.615317069	0.73	0.44	175.61	-0.304E-02	0.128E-02	-1.5014
4	1	2011	21	59	60.00	12	55	56.43984	-03	1	3.8014	8.614531807	0.73	0.36	176.38	-0.305E-02	0.127E-02	-0.9571
4	2	2011	21	59	60.00	12	55	39.25616	-02	59	13.9374	8.614056310	0.72	0.31	176.97	-0.305E-02	0.127E-02	-0.4125
4	3	2011	21	59	60.00	12	55	22.05472	-02	57	24.3064	8.613890670	0.72	0.28	177.26	-0.305E-02	0.127E-02	0.1321
4	4	2011	21	59	60.00	12	55	4.84607	-02	55	34.9759	8.614034805	0.72	0.30	177.15	-0.305E-02	0.126E-02	0.6763
4	5	2011	21	59	60.00	12	54	47.64058	-02	53	46.0119	8.614488455	0.73	0.36	176.68	-0.305E-02	0.126E-02	1.2199
4	6	2011	21	59	60.00	12	54	30.44825	-02	51	57.4784	8.615251182	0.73	0.43	175.98	-0.305E-02	0.126E-02	1.7625
4	7	2011	21	59	60.00	12	54	13.27869	-02	50	9.4366	8.616322370	0.73	0.52	175.15	-0.304E-02	0.125E-02	2.3038
4	8	2011	21	59	60.00	12	53	56.14105	-02	48	21.9444	8.617701231	0.74	0.62	174.24	-0.304E-02	0.124E-02	2.8436
4	9	2011	21	59	60.00	12	53	39.04402	-02	46	35.0557	8.619386804	0.74	0.71	173.29	-0.303E-02	0.124E-02	3.3814
4	10	2011	21	59	60.00	12	53	21.99586	-02	44	48.8211	8.621377963	0.75	0.82	172.31	-0.302E-02	0.123E-02	3.9171
4	11	2011	21	59	60.00	12	53	5.00459	-02	43	3.2884	8.623673426	0.75	0.92	171.31	-0.301E-02	0.122E-02	4.4504
4	12	2011	21	59	60.00	12	52	48.07816	-02	41	18.5035	8.626271768	0.76	1.02	170.31	-0.299E-02	0.121E-02	4.9811
4	13	2011	21	59	60.00	12	52	31.22477	-02	39	34.5131	8.629171440	0.77	1.13	169.29	-0.298E-02	0.120E-02	5.5089
4	14	2011	21	59	60.00	12	52	14.45317	-02	37	51.3666	8.632370800	0.77	1.23	168.27	-0.296E-02	0.119E-02	6.0337
4	15	2011	21	59	60.00	12	51	57.77286	-02	36	9.1187	8.635868150	0.78	1.34	167.24	-0.295E-02	0.118E-02	6.5554
4	16	2011	21	59	60.00	12	51	41.19392	-02	34	27.8296	8.639661778	0.78	1.44	166.21	-0.293E-02	0.117E-02	7.0741
4	17	2011	21	59	60.00	12	51	24.72646	-02	32	47.5623	8.643749993	0.79	1.55	165.18	-0.291E-02	0.116E-02	7.5899
4	18	2011	21	59	60.00	12	51	8.37983	-02	31	8.3772	8.648131149	0.79	1.65	164.14	-0.289E-02	0.114E-02	8.1027
4	19	2011	21	59	60.00	12	50	52.16211	-02	29	30.3278	8.652803639	0.80	1.76	163.11	-0.286E-02	0.113E-02	8.6127
4	20	2011	21	59	60.00	12	50	36.08016	-02	27	53.4597	8.657765868	0.81	1.86	162.08	-0.284E-02	0.112E-02	9.1198
4	21	2011	21	59	60.00	12	50	20.14016	-02	26	17.8127	8.663016215	0.81	1.96	161.04	-0.281E-02	0.110E-02	9.6240
4	22	2011	21	59	60.00	12	50	4.34830	-02	24	43.4247	8.668552988	0.82	2.07	160.01	-0.278E-02	0.109E-02	10.1250
4	23	2011	21	59	60.00	12	49	48.71124	-02	23	10.3354	8.674374395	0.82	2.17	158.97	-0.276E-02	0.107E-02	10.6228
4	24	2011	21	59	60.00	12	49	33.23622	-02	21	38.5869	8.680478519	0.83	2.27	157.94	-0.273E-02	0.106E-02	11.1170
4	25	2011	21	59	60.00	12	49	17.93101	-02	20	8.2246	8.686863305	0.84	2.37	156.90	-0.269E-02	0.104E-02	11.6074
4	26	2011	21	59	60.00	12	49	2.80377	-02	18	39.2960	8.693526559	0.84	2.47	155.87	-0.266E-02	0.102E-02	12.0938
4	27	2011	21	59	60.00	12	48	47.86295	-02	17	11.8509	8.700465945	0.85	2.57	154.83	-0.263E-02	0.100E-02	12.5759
4	28	2011	21	59	60.00	12	48	33.11717	-02	15	45.9397	8.707678987	0.85	2.67	153.80	-0.259E-02	0.987E-03	13.0535
4	29	2011	21	59	60.00	12	48	18.57503	-02	14	21.6134	8.715163070	0.86	2.76	152.77	-0.255E-02	0.968E-03	13.5263
4	30	2011	21	59	60.00	12	48	4.24504	-02	12	58.9225	8.722915441	0.87	2.86	151.74	-0.252E-02	0.949E-03	13.9942
5	1	2011	21	59	60.00	12	47	50.13551	-02	11	37.9163	8.730933207	0.87	2.95	150.71	-0.248E-02	0.929E-03	14.4567
5	2	2011	21	59	60.00	12	47	36.25440	-02	10	18.6420	8.739213336	0.88	3.05	149.68	-0.243E-02	0.909E-03	14.9138
5	3	2011	21	59	60.00	12	47	22.60925	-02	9	1.1443	8.747752655	0.88	3.14	148.66	-0.239E-02	0.888E-03	15.3652
5	4	2011	21	59	60.00	12	47	9.20705	-02	7	45.4640	8.756547852	0.89	3.23	147.63	-0.235E-02	0.867E-03	15.8105
5	5	2011	21	59	60.00	12	46	56.05419	-02	6	31.6380	8.765595482	0.90	3.32	146.61	-0.230E-02	0.846E-03	16.2497
5	6	2011	21	59	60.00	12	46	43.15644	-02	5	19.6983	8.774891971	0.90	3.41	145.59	-0.226E-02	0.824E-03	16.6825
5	7	2011	21	59	60.00	12	46	30.51902	-02	4	9.6730	8.784433626	0.91	3.50	144.57	-0.221E-02	0.801E-03	17.1086
5	8	2011	21	59	60.00	12	46	18.14681	-02	3	1.5867	8.794216649	0.92	3.59	143.55	-0.216E-02	0.779E-03	17.5280
5	9	2011	21	59	60.00	12	46	6.04449	-02	1	55.4619	8.804237155	0.92	3.67	142.53	-0.212E-02	0.756E-03	17.9404
5	10	2011	21	59	60.00	12	45	54.21689	-02	0	51.3213	8.814491188	0.93	3.76	141.51	-0.207E-02	0.732E-03	18.3458
5	11	2011	21	59	60.00	12	45	42.66917	-01	59	49.1894	8.824974750	0.94	3.84	140.50	-0.201E-02	0.709E-03	18.7441
5	12	2011	21	59	60.00	12	45	31.40699	-01	58	49.0942	8.835683828	0.94	3.93	139.49	-0.196E-02	0.685E-03	19.1353
5	13	2011	21	59	60.00	12	45	20.43646	-01	57	51.0674	8.846614424	0.95	4.01	138.48	-0.191E-02	0.661E-03	19.5196
5	14	2011	21	59	60.00	12	45	9.76384	-01	56	55.1437	8.857762592	0.95	4.09	137.47	-0.186E-02	0.636E-03	19.8969
5	15	2011	21	59	60.00	12	44	59.39494	-01	56	1.3567	8.869124458	0.96	4.16	136.46	-0.180E-02	0.612E-03	20.2674
5	16	2011	21	59	60.00	12	44	49.33460	-01	55	9.7356	8.880696232	0.97	4.24	135.45	-0.175E-02	0.587E-03	20.6313
5	17	2011	21	59	60.00	12	44	39.58637	-01	54	20.3018	8.892474200	0.97	4.32	134.45	-0.169E-02	0.561E-03	20.9887
5	18	2011	21	59	60.00	12	44	30.15272	-01	53	33.0693	8.904454699	0.98	4.39	133.45	-0.164E-02	0.536E-03	21.3396
5	19	2011	21	59	60.00	12	44	21.03562	-01	52	48.0474	8.916634077	0.99	4.46	132.45	-0.158E-02	0.510E-03	21.6841
5	20	2011	21	59	60.00	12	44	12.23716	-01	52	5.2451	8.929008658	0.99	4.53	131.45	-0.153E-02	0.485E-03	22.0220
5	21	2011	21	59	60.00	12	44	3.75999	-01	51	24.6734	8.941574706	1.00	4.60	130.45	-0.147E-02	0.458E-03	22.3533
5	22	2011	21	59	60.00	12	43	55.60741	-01	50	46.3472	8.954328406	1.00	4.67	129.46	-0.141E-02	0.432E-03	22.6777

5 23	2011 21 59 60.00	12 43 47.78319	-01 50 10.2840	8.967265856	1.01	4.74	128.46	-0.135E-02	0.406E-03	22.9951
5 24	2011 21 59 60.00	12 43 40.29145	-01 49 36.5037	8.980383060	1.02	4.80	127.47	-0.129E-02	0.379E-03	23.3054
5 25	2011 21 59 60.00	12 43 33.13643	-01 49 5.0275	8.993675932	1.02	4.86	126.48	-0.123E-02	0.352E-03	23.6084
5 26	2011 21 59 60.00	12 43 26.32243	-01 48 35.8767	9.007140303	1.03	4.93	125.49	-0.117E-02	0.325E-03	23.9040
5 27	2011 21 59 60.00	12 43 19.85361	-01 48 9.0722	9.020771918	1.03	4.99	124.51	-0.111E-02	0.298E-03	24.1920
5 28	2011 21 59 60.00	12 43 13.73392	-01 47 44.6340	9.034566444	1.04	5.05	123.52	-0.105E-02	0.270E-03	24.4723
5 29	2011 21 59 60.00	12 43 7.96697	-01 47 22.5798	9.048519466	1.05	5.10	122.54	-0.984E-03	0.243E-03	24.7447
5 30	2011 21 59 60.00	12 43 2.55602	-01 47 2.9252	9.062626488	1.05	5.16	121.56	-0.921E-03	0.215E-03	25.0091
5 31	2011 21 59 60.00	12 42 57.50376	-01 46 45.6825	9.076882932	1.06	5.21	120.58	-0.858E-03	0.187E-03	25.2654
6 1	2011 21 59 60.00	12 42 52.81232	-01 46 30.8598	9.091284142	1.06	5.26	119.60	-0.794E-03	0.159E-03	25.5134
6 2	2011 21 59 60.00	12 42 48.48315	-01 46 18.4608	9.105825382	1.07	5.31	118.63	-0.730E-03	0.131E-03	25.7530
6 3	2011 21 59 60.00	12 42 44.51710	-01 46 8.4846	9.120501851	1.08	5.36	117.66	-0.666E-03	0.103E-03	25.9841
6 4	2011 21 59 60.00	12 42 40.91462	-01 46 0.9268	9.135308692	1.08	5.41	116.69	-0.601E-03	0.753E-04	26.2067
6 5	2011 21 59 60.00	12 42 37.67596	-01 45 55.7812	9.150241015	1.09	5.46	115.72	-0.536E-03	0.472E-04	26.4205
6 6	2011 21 59 60.00	12 42 34.80153	-01 45 53.0415	9.165293916	1.09	5.50	114.75	-0.471E-03	0.192E-04	26.6258
6 7	2011 21 59 60.00	12 42 32.29210	-01 45 52.7038	9.180462504	1.10	5.54	113.78	-0.406E-03	-0.884E-05	26.8225
6 8	2011 21 59 60.00	12 42 30.14894	-01 45 54.7677	9.195741929	1.10	5.58	112.82	-0.341E-03	-0.368E-04	27.0107
6 9	2011 21 59 60.00	12 42 28.37378	-01 45 59.2366	9.211127408	1.11	5.62	111.86	-0.275E-03	-0.648E-04	27.1905
6 10	2011 21 59 60.00	12 42 26.96855	-01 46 6.1165	9.226614245	1.11	5.66	110.90	-0.210E-03	-0.927E-04	27.3622
6 11	2011 21 59 60.00	12 42 25.93491	-01 46 15.4136	9.242197852	1.12	5.69	109.94	-0.145E-03	-0.120E-03	27.5259
6 12	2011 21 59 60.00	12 42 25.27383	-01 46 27.1310	9.257873759	1.12	5.73	108.99	-0.796E-04	-0.148E-03	27.6818
6 13	2011 21 59 60.00	12 42 24.98527	-01 46 41.2664	9.273637610	1.13	5.76	108.03	-0.144E-04	-0.176E-03	27.8301
6 14	2011 21 59 60.00	12 42 25.06814	-01 46 57.8106	9.289485152	1.13	5.79	107.08	0.508E-04	-0.204E-03	27.9710
6 15	2011 21 59 60.00	12 42 25.52064	-01 47 16.7494	9.305412206	1.14	5.82	106.13	0.116E-03	-0.231E-03	28.1045
6 16	2011 21 59 60.00	12 42 26.34076	-01 47 38.0660	9.321414637	1.14	5.85	105.18	0.181E-03	-0.259E-03	28.2308
6 17	2011 21 59 60.00	12 42 27.52688	-01 48 1.7448	9.337488316	1.15	5.87	104.24	0.246E-03	-0.286E-03	28.3498
6 18	2011 21 59 60.00	12 42 29.07797	-01 48 27.7733	9.353629100	1.15	5.90	103.29	0.311E-03	-0.313E-03	28.4615
6 19	2011 21 59 60.00	12 42 30.99370	-01 48 56.1432	9.369832804	1.16	5.92	102.35	0.376E-03	-0.341E-03	28.5657
6 20	2011 21 59 60.00	12 42 33.27427	-01 49 26.8494	9.386095196	1.16	5.94	101.41	0.441E-03	-0.368E-03	28.6625
6 21	2011 21 59 60.00	12 42 35.92017	-01 49 59.8892	9.402411993	1.17	5.96	100.47	0.506E-03	-0.395E-03	28.7516
6 22	2011 21 59 60.00	12 42 38.93202	-01 50 35.2606	9.418778864	1.17	5.98	99.53	0.570E-03	-0.422E-03	28.8331
6 23	2011 21 59 60.00	12 42 42.31039	-01 51 12.9622	9.435191434	1.18	5.99	98.59	0.635E-03	-0.449E-03	28.9068
6 24	2011 21 59 60.00	12 42 46.05573	-01 51 52.9916	9.451645283	1.18	6.00	97.66	0.700E-03	-0.476E-03	28.9728
6 25	2011 21 59 60.00	12 42 50.16824	-01 52 35.3453	9.468135955	1.19	6.02	96.73	0.764E-03	-0.503E-03	29.0308
6 26	2011 21 59 60.00	12 42 54.64782	-01 53 20.0182	9.484658953	1.19	6.03	95.80	0.828E-03	-0.529E-03	29.0809
6 27	2011 21 59 60.00	12 42 59.49396	-01 54 7.0023	9.501209742	1.20	6.04	94.87	0.893E-03	-0.556E-03	29.1230
6 28	2011 21 59 60.00	12 43 4.70565	-01 54 56.2869	9.517783741	1.20	6.04	93.94	0.956E-03	-0.582E-03	29.1570
6 29	2011 21 59 60.00	12 43 10.28133	-01 55 47.8572	9.534376331	1.20	6.05	93.01	0.102E-02	-0.608E-03	29.1829
6 30	2011 21 59 60.00	12 43 16.21883	-01 56 41.6941	9.550982852	1.21	6.05	92.09	0.108E-02	-0.634E-03	29.2005
7 1	2011 21 59 60.00	12 43 22.51550	-01 57 37.7747	9.567598613	1.21	6.06	91.17	0.115E-02	-0.660E-03	29.2099
7 2	2011 21 59 60.00	12 43 29.16846	-01 58 36.0738	9.584218910	1.22	6.06	90.25	0.121E-02	-0.686E-03	29.2110
7 3	2011 21 59 60.00	12 43 36.17496	-01 59 36.5661	9.600839050	1.22	6.06	89.33	0.127E-02	-0.711E-03	29.2038
7 4	2011 21 59 60.00	12 43 43.53271	-02 0 39.2287	9.617454377	1.22	6.05	88.41	0.134E-02	-0.737E-03	29.1886
7 5	2011 21 59 60.00	12 43 51.24008	-02 1 44.0432	9.634060306	1.23	6.05	87.49	0.140E-02	-0.762E-03	29.1654
7 6	2011 21 59 60.00	12 43 59.29600	-02 2 50.9958	9.650652348	1.23	6.04	86.58	0.146E-02	-0.786E-03	29.1344
7 7	2011 21 59 60.00	12 44 7.69971	-02 4 0.0760	9.667226136	1.23	6.04	85.67	0.152E-02	-0.811E-03	29.0958
7 8	2011 21 59 60.00	12 44 16.45028	-02 5 11.2741	9.683777435	1.24	6.03	84.75	0.158E-02	-0.835E-03	29.0500
7 9	2011 21 59 60.00	12 44 25.54624	-02 6 24.5782	9.700302146	1.24	6.02	83.84	0.164E-02	-0.859E-03	28.9970
7 10	2011 21 59 60.00	12 44 34.98529	-02 7 39.9724	9.716796306	1.24	6.01	82.94	0.170E-02	-0.883E-03	28.9372
7 11	2011 21 59 60.00	12 44 44.76422	-02 8 57.4349	9.733256070	1.25	5.99	82.03	0.176E-02	-0.907E-03	28.8707
7 12	2011 21 59 60.00	12 44 54.87918	-02 10 16.9393	9.749677693	1.25	5.98	81.13	0.182E-02	-0.930E-03	28.7976
7 13	2011 21 59 60.00	12 45 5.32599	-02 11 38.4566	9.766057504	1.25	5.96	80.22	0.188E-02	-0.953E-03	28.7182
7 14	2011 21 59 60.00	12 45 16.10066	-02 13 1.9572	9.782391882	1.26	5.94	79.32	0.193E-02	-0.976E-03	28.6325

7 15	2011 21 59 60.00	12 45 27.19969	-02 14 27.4144	9.798677226	1.26	5.93	78.42	0.199E-02	-0.999E-03	28.5404
7 16	2011 21 59 60.00	12 45 38.62028	-02 15 54.8048	9.814909931	1.26	5.90	77.52	0.205E-02	-0.102E-02	28.4419
7 17	2011 21 59 60.00	12 45 50.36027	-02 17 24.1094	9.831086378	1.26	5.88	76.62	0.210E-02	-0.104E-02	28.3371
7 18	2011 21 59 60.00	12 46 2.41797	-02 18 55.3121	9.847202919	1.27	5.86	75.72	0.216E-02	-0.107E-02	28.2258
7 19	2011 21 59 60.00	12 46 14.79200	-02 20 28.3992	9.863255879	1.27	5.83	74.83	0.222E-02	-0.109E-02	28.1080
7 20	2011 21 59 60.00	12 46 27.48103	-02 22 3.3576	9.879241551	1.27	5.81	73.94	0.227E-02	-0.111E-02	27.9837
7 21	2011 21 59 60.00	12 46 40.48367	-02 23 40.1743	9.895156204	1.27	5.78	73.04	0.233E-02	-0.113E-02	27.8529
7 22	2011 21 59 60.00	12 46 53.79836	-02 25 18.8356	9.910996083	1.28	5.75	72.15	0.238E-02	-0.115E-02	27.7154
7 23	2011 21 59 60.00	12 47 7.42333	-02 26 59.3267	9.926757415	1.28	5.72	71.26	0.243E-02	-0.117E-02	27.5713
7 24	2011 21 59 60.00	12 47 21.35647	-02 28 41.6306	9.942436404	1.28	5.69	70.37	0.249E-02	-0.119E-02	27.4205
7 25	2011 21 59 60.00	12 47 35.59529	-02 30 25.7282	9.958029234	1.28	5.66	69.48	0.254E-02	-0.121E-02	27.2630
7 26	2011 21 59 60.00	12 47 50.13686	-02 32 11.5974	9.973532066	1.28	5.62	68.59	0.259E-02	-0.123E-02	27.0988
7 27	2011 21 59 60.00	12 48 4.97772	-02 33 59.2123	9.988941034	1.29	5.59	67.71	0.265E-02	-0.125E-02	26.9278
7 28	2011 21 59 60.00	12 48 20.11393	-02 35 48.5437	10.004252252	1.29	5.55	66.82	0.270E-02	-0.127E-02	26.7499
7 29	2011 21 59 60.00	12 48 35.54122	-02 37 39.5587	10.019461819	1.29	5.51	65.94	0.275E-02	-0.129E-02	26.5652
7 30	2011 21 59 60.00	12 48 51.25526	-02 39 32.2235	10.034565836	1.29	5.47	65.06	0.280E-02	-0.131E-02	26.3737
7 31	2011 21 59 60.00	12 49 7.25215	-02 41 26.5055	10.049560439	1.29	5.43	64.17	0.285E-02	-0.133E-02	26.1755
8 1	2011 21 59 60.00	12 49 23.52870	-02 43 22.3768	10.064441825	1.29	5.39	63.29	0.290E-02	-0.135E-02	25.9707
8 2	2011 21 59 60.00	12 49 40.08253	-02 45 19.8154	10.079206298	1.30	5.34	62.41	0.295E-02	-0.137E-02	25.7595
8 3	2011 21 59 60.00	12 49 56.91177	-02 47 18.8039	10.093850291	1.30	5.30	61.53	0.299E-02	-0.139E-02	25.5422
8 4	2011 21 59 60.00	12 50 14.01453	-02 49 19.3270	10.108370393	1.30	5.25	60.66	0.304E-02	-0.140E-02	25.3191
8 5	2011 21 59 60.00	12 50 31.38835	-02 51 21.3679	10.122763346	1.30	5.21	59.78	0.309E-02	-0.142E-02	25.0904
8 6	2011 21 59 60.00	12 50 49.02998	-02 53 24.9054	10.137026044	1.30	5.16	58.90	0.313E-02	-0.144E-02	24.8564
8 7	2011 21 59 60.00	12 51 6.93530	-02 55 29.9135	10.151155508	1.30	5.11	58.03	0.318E-02	-0.145E-02	24.6172
8 8	2011 21 59 60.00	12 51 25.09959	-02 57 36.3615	10.165148869	1.30	5.06	57.15	0.322E-02	-0.147E-02	24.3732
8 9	2011 21 59 60.00	12 51 43.51783	-02 59 44.2160	10.179003343	1.30	5.01	56.28	0.327E-02	-0.149E-02	24.1243
8 10	2011 21 59 60.00	12 52 2.18514	-03 1 53.4432	10.192716206	1.30	4.95	55.41	0.331E-02	-0.150E-02	23.8706
8 11	2011 21 59 60.00	12 52 21.09703	-03 4 4.0108	10.206284772	1.30	4.90	54.54	0.335E-02	-0.152E-02	23.6123
8 12	2011 21 59 60.00	12 52 40.24962	-03 6 15.8897	10.219706373	1.30	4.84	53.67	0.340E-02	-0.153E-02	23.3493
8 13	2011 21 59 60.00	12 52 59.63965	-03 8 29.0543	10.232978345	1.30	4.79	52.80	0.344E-02	-0.155E-02	23.0816
8 14	2011 21 59 60.00	12 53 19.26445	-03 10 43.4828	10.246098016	1.30	4.73	51.93	0.348E-02	-0.156E-02	22.8093
8 15	2011 21 59 60.00	12 53 39.12169	-03 12 59.1559	10.259062696	1.31	4.67	51.06	0.352E-02	-0.158E-02	22.5322
8 16	2011 21 59 60.00	12 53 59.20927	-03 15 16.0564	10.271869676	1.31	4.61	50.19	0.356E-02	-0.159E-02	22.2504
8 17	2011 21 59 60.00	12 54 19.52508	-03 17 34.1673	10.284516230	1.31	4.55	49.33	0.360E-02	-0.160E-02	21.9638
8 18	2011 21 59 60.00	12 54 40.06690	-03 19 53.4714	10.296999611	1.31	4.49	48.46	0.364E-02	-0.162E-02	21.6723
8 19	2011 21 59 60.00	12 55 0.83230	-03 22 13.9506	10.309317059	1.31	4.43	47.59	0.368E-02	-0.163E-02	21.3761
8 20	2011 21 59 60.00	12 55 21.81857	-03 24 35.5852	10.321465801	1.31	4.37	46.73	0.371E-02	-0.165E-02	21.0750
8 21	2011 21 59 60.00	12 55 43.02272	-03 26 58.3540	10.333443053	1.30	4.30	45.86	0.375E-02	-0.166E-02	20.7690
8 22	2011 21 59 60.00	12 56 4.44133	-03 29 22.2328	10.345246017	1.30	4.24	45.00	0.379E-02	-0.167E-02	20.4581
8 23	2011 21 59 60.00	12 56 26.07059	-03 31 47.1949	10.356871883	1.30	4.17	44.14	0.382E-02	-0.168E-02	20.1423
8 24	2011 21 59 60.00	12 56 47.90627	-03 34 13.2103	10.368317826	1.30	4.11	43.27	0.386E-02	-0.169E-02	19.8216
8 25	2011 21 59 60.00	12 57 9.94376	-03 36 40.2461	10.379581009	1.30	4.04	42.41	0.389E-02	-0.171E-02	19.4959
8 26	2011 21 59 60.00	12 57 32.17829	-03 39 8.2669	10.390658589	1.30	3.97	41.55	0.393E-02	-0.172E-02	19.1653
8 27	2011 21 59 60.00	12 57 54.60521	-03 41 37.2367	10.401547737	1.30	3.90	40.68	0.396E-02	-0.173E-02	18.8297
8 28	2011 21 59 60.00	12 58 17.22048	-03 44 7.1224	10.412245665	1.30	3.83	39.82	0.400E-02	-0.174E-02	18.4894
8 29	2011 21 59 60.00	12 58 40.02092	-03 46 37.8964	10.422749664	1.30	3.76	38.96	0.403E-02	-0.175E-02	18.1445
8 30	2011 21 59 60.00	12 59 3.00415	-03 49 9.5379	10.433057151	1.30	3.69	38.10	0.406E-02	-0.176E-02	17.7951
8 31	2011 21 59 60.00	12 59 26.16812	-03 51 42.0303	10.443165695	1.30	3.62	37.24	0.409E-02	-0.177E-02	17.4418
9 1	2011 21 59 60.00	12 59 49.51034	-03 54 15.3574	10.453073042	1.30	3.54	36.38	0.412E-02	-0.178E-02	17.0846
9 2	2011 21 59 60.00	13 0 13.02738	-03 56 49.4986	10.462777113	1.30	3.47	35.52	0.415E-02	-0.179E-02	16.7239
9 3	2011 21 59 60.00	13 0 36.71478	-03 59 24.4276	10.472275980	1.29	3.39	34.66	0.418E-02	-0.180E-02	16.3600
9 4	2011 21 59 60.00	13 1 0.56737	-04 2 0.1127	10.481567844	1.29	3.32	33.80	0.420E-02	-0.181E-02	15.9931
9 5	2011 21 59 60.00	13 1 24.57971	-04 4 36.5193	10.490650996	1.29	3.24	32.95	0.423E-02	-0.181E-02	15.6233

9	6	2011	21	59	60.00	13	1	48.74650	-04	7	13.6122	10.499523801	1.29	3.17	32.09	0.426E-02	-0.182E-02	15.2507
9	7	2011	21	59	60.00	13	2	13.06288	-04	9	51.3577	10.508184663	1.29	3.09	31.23	0.428E-02	-0.183E-02	14.8753
9	8	2011	21	59	60.00	13	2	37.52453	-04	12	29.7246	10.516632017	1.29	3.01	30.37	0.431E-02	-0.184E-02	14.4972
9	9	2011	21	59	60.00	13	3	2.12773	-04	15	8.6854	10.524864311	1.29	2.93	29.52	0.433E-02	-0.184E-02	14.1164
9	10	2011	21	59	60.00	13	3	26.86930	-04	17	48.2155	10.532879998	1.28	2.85	28.66	0.436E-02	-0.185E-02	13.7330
9	11	2011	21	59	60.00	13	3	51.74648	-04	20	28.2937	10.540677526	1.28	2.77	27.80	0.438E-02	-0.186E-02	13.3468
9	12	2011	21	59	60.00	13	4	16.75674	-04	23	8.9006	10.548255338	1.28	2.69	26.95	0.440E-02	-0.186E-02	12.9579
9	13	2011	21	59	60.00	13	4	41.89765	-04	25	50.0181	10.555611864	1.28	2.61	26.09	0.443E-02	-0.187E-02	12.5663
9	14	2011	21	59	60.00	13	5	7.16671	-04	28	31.6282	10.562745522	1.28	2.53	25.24	0.445E-02	-0.187E-02	12.1720
9	15	2011	21	59	60.00	13	5	32.56122	-04	31	13.7123	10.569654722	1.27	2.45	24.38	0.447E-02	-0.188E-02	11.7749
9	16	2011	21	59	60.00	13	5	58.07822	-04	33	56.2504	10.576337862	1.27	2.37	23.53	0.449E-02	-0.188E-02	11.3750
9	17	2011	21	59	60.00	13	6	23.71445	-04	36	39.2210	10.582793335	1.27	2.28	22.67	0.451E-02	-0.189E-02	10.9724
9	18	2011	21	59	60.00	13	6	49.46631	-04	39	22.6003	10.589019530	1.27	2.20	21.82	0.453E-02	-0.189E-02	10.5669
9	19	2011	21	59	60.00	13	7	15.32981	-04	42	6.3622	10.595014831	1.26	2.12	20.96	0.454E-02	-0.190E-02	10.1587
9	20	2011	21	59	60.00	13	7	41.30062	-04	44	50.4776	10.600777618	1.26	2.03	20.11	0.456E-02	-0.190E-02	9.7476
9	21	2011	21	59	60.00	13	8	7.37409	-04	47	34.9150	10.606306269	1.26	1.95	19.25	0.458E-02	-0.190E-02	9.3338
9	22	2011	21	59	60.00	13	8	33.54535	-04	50	19.6405	10.611599162	1.26	1.86	18.40	0.460E-02	-0.191E-02	8.9172
9	23	2011	21	59	60.00	13	8	59.80957	-04	53	4.6192	10.616654682	1.25	1.78	17.55	0.461E-02	-0.191E-02	8.4978
9	24	2011	21	59	60.00	13	9	26.16220	-04	55	49.8163	10.621471241	1.25	1.69	16.69	0.463E-02	-0.191E-02	8.0757
9	25	2011	21	59	60.00	13	9	52.59935	-04	58	35.2006	10.626047301	1.25	1.61	15.84	0.464E-02	-0.192E-02	7.6510
9	26	2011	21	59	60.00	13	10	19.11801	-05	1	20.7469	10.630381416	1.25	1.52	14.99	0.465E-02	-0.192E-02	7.2239
9	27	2011	21	59	60.00	13	10	45.71582	-05	4	6.4364	10.634472274	1.24	1.44	14.14	0.467E-02	-0.192E-02	6.7948
9	28	2011	21	59	60.00	13	11	12.39045	-05	6	52.2540	10.638318736	1.24	1.35	13.29	0.468E-02	-0.192E-02	6.3638
9	29	2011	21	59	60.00	13	11	39.13878	-05	9	38.1829	10.641919855	1.24	1.26	12.44	0.469E-02	-0.192E-02	5.9314
9	30	2011	21	59	60.00	13	12	5.95645	-05	12	24.2003	10.645274872	1.23	1.18	11.59	0.470E-02	-0.192E-02	5.4979
10	1	2011	21	59	60.00	13	12	32.83800	-05	15	10.2761	10.648383193	1.23	1.09	10.75	0.471E-02	-0.192E-02	5.0634
10	2	2011	21	59	60.00	13	12	59.77742	-05	17	56.3751	10.651244346	1.23	1.01	9.91	0.472E-02	-0.192E-02	4.6283
10	3	2011	21	59	60.00	13	13	26.76882	-05	20	42.4607	10.653857950	1.23	0.92	9.07	0.473E-02	-0.192E-02	4.1926
10	4	2011	21	59	60.00	13	13	53.80690	-05	23	28.4977	10.656223679	1.22	0.83	8.23	0.473E-02	-0.192E-02	3.7564
10	5	2011	21	59	60.00	13	14	20.88697	-05	26	14.4540	10.658341240	1.22	0.75	7.41	0.474E-02	-0.192E-02	3.3197
10	6	2011	21	59	60.00	13	14	48.00500	-05	29	0.3009	10.660210363	1.22	0.67	6.59	0.475E-02	-0.192E-02	2.8826
10	7	2011	21	59	60.00	13	15	15.15747	-05	31	46.0125	10.661830786	1.21	0.58	5.78	0.475E-02	-0.192E-02	2.4452
10	8	2011	21	59	60.00	13	15	42.34127	-05	34	31.5654	10.663202256	1.21	0.50	5.00	0.476E-02	-0.192E-02	2.0073
10	9	2011	21	59	60.00	13	16	9.55355	-05	37	16.9372	10.664324522	1.21	0.43	4.24	0.476E-02	-0.192E-02	1.5690
10	10	2011	21	59	60.00	13	16	36.79147	-05	40	2.1052	10.665197333	1.20	0.35	3.54	0.476E-02	-0.191E-02	1.1303
10	11	2011	21	59	60.00	13	17	4.05184	-05	42	47.0451	10.665820438	1.20	0.29	2.92	0.477E-02	-0.191E-02	0.6912
10	12	2011	21	59	60.00	13	17	31.33051	-05	45	31.7371	10.666193583	1.20	0.25	2.46	0.477E-02	-0.191E-02	0.2517
10	13	2011	21	59	60.00	13	17	58.62298	-05	48	16.1884	10.666316510	1.20	0.23	2.25	0.477E-02	-0.190E-02	-0.1882
10	14	2011	21	59	60.00	13	18	25.92745	-05	51	0.4159	10.666188962	1.20	0.25	2.37	0.477E-02	-0.190E-02	-0.6285
10	15	2011	21	59	60.00	13	18	53.24288	-05	53	44.3816	10.665810679	1.20	0.29	2.76	0.477E-02	-0.190E-02	-1.0692
10	16	2011	21	59	60.00	13	19	20.56506	-05	56	28.0298	10.665181406	1.20	0.36	3.34	0.477E-02	-0.189E-02	-1.5102
10	17	2011	21	59	60.00	13	19	47.88850	-05	59	11.3235	10.664300890	1.21	0.43	4.03	0.477E-02	-0.189E-02	-1.9517
10	18	2011	21	59	60.00	13	20	15.20782	-06	1	54.2334	10.663168887	1.21	0.50	4.77	0.477E-02	-0.188E-02	-2.3936
10	19	2011	21	59	60.00	13	20	42.51777	-06	4	36.7299	10.661785166	1.21	0.59	5.56	0.476E-02	-0.188E-02	-2.8357
10	20	2011	21	59	60.00	13	21	9.81323	-06	7	18.7814	10.660149510	1.22	0.67	6.37	0.476E-02	-0.188E-02	-3.2782
10	21	2011	21	59	60.00	13	21	37.08935	-06	10	0.3558	10.658261732	1.22	0.75	7.19	0.476E-02	-0.187E-02	-3.7209
10	22	2011	21	59	60.00	13	22	4.34172	-06	12	41.4220	10.656121685	1.22	0.84	8.02	0.475E-02	-0.186E-02	-4.1638
10	23	2011	21	59	60.00	13	22	31.56660	-06	15	21.9529	10.653729294	1.23	0.92	8.86	0.475E-02	-0.186E-02	-4.6066
10	24	2011	21	59	60.00	13	22	58.76095	-06	18	1.9268	10.651084583	1.23	1.01	9.71	0.474E-02	-0.185E-02	-5.0493
10	25	2011	21	59	60.00	13	23	25.92213	-06	20	41.3271	10.648187723	1.23	1.09	10.57	0.473E-02	-0.184E-02	-5.4914
10	26	2011	21	59	60.00	13	23	53.04721	-06	23	20.1397	10.645039061	1.24	1.18	11.43	0.472E-02	-0.184E-02	-5.9328
10	27	2011	21	59	60.00	13	24	20.13221	-06	25	58.3473	10.641639149	1.24	1.27	12.29	0.471E-02	-0.183E-02	-6.3729
10	28	2011	21	59	60.00	13	24	47.17180	-06	28	35.9254	10.637988734	1.24	1.35	13.15	0.470E-02	-0.182E-02	-6.8115

10 29	2011 21 59 60.00	13 25 14.15961	-06 31 12.8421	10.634088735	1.25	1.44	14.02	0.469E-02	-0.181E-02	-7.2483
10 30	2011 21 59 60.00	13 25 41.08894	-06 33 49.0606	10.629940204	1.25	1.53	14.89	0.468E-02	-0.181E-02	-7.6832
10 31	2011 21 59 60.00	13 26 7.95356	-06 36 24.5442	10.625544276	1.25	1.61	15.76	0.467E-02	-0.180E-02	-8.1159
11 1	2011 21 59 60.00	13 26 34.74809	-06 38 59.2592	10.620902142	1.25	1.70	16.63	0.466E-02	-0.179E-02	-8.5466
11 2	2011 21 59 60.00	13 27 1.46799	-06 41 33.1766	10.616015019	1.26	1.78	17.50	0.464E-02	-0.178E-02	-8.9750
11 3	2011 21 59 60.00	13 27 28.10933	-06 44 6.2712	10.610884139	1.26	1.87	18.38	0.463E-02	-0.177E-02	-9.4012
11 4	2011 21 59 60.00	13 27 54.66862	-06 46 38.5214	10.605510744	1.26	1.95	19.26	0.461E-02	-0.176E-02	-9.8252
11 5	2011 21 59 60.00	13 28 21.14264	-06 49 9.9077	10.599896083	1.27	2.04	20.14	0.460E-02	-0.175E-02	-10.2469
11 6	2011 21 59 60.00	13 28 47.52827	-06 51 40.4122	10.594041414	1.27	2.12	21.02	0.458E-02	-0.174E-02	-10.6664
11 7	2011 21 59 60.00	13 29 13.82239	-06 54 10.0181	10.587948000	1.27	2.20	21.90	0.456E-02	-0.173E-02	-11.0836
11 8	2011 21 59 60.00	13 29 40.02177	-06 56 38.7085	10.581617112	1.27	2.29	22.78	0.455E-02	-0.172E-02	-11.4986
11 9	2011 21 59 60.00	13 30 6.12294	-06 59 6.4661	10.575050026	1.28	2.37	23.66	0.453E-02	-0.171E-02	-11.9112
11 10	2011 21 59 60.00	13 30 32.12214	-07 1 33.2723	10.568248022	1.28	2.45	24.55	0.451E-02	-0.170E-02	-12.3216
11 11	2011 21 59 60.00	13 30 58.01527	-07 3 59.1064	10.561212383	1.28	2.53	25.44	0.449E-02	-0.169E-02	-12.7296
11 12	2011 21 59 60.00	13 31 23.79782	-07 6 23.9457	10.553944397	1.28	2.61	26.32	0.447E-02	-0.167E-02	-13.1353
11 13	2011 21 59 60.00	13 31 49.46495	-07 8 47.7646	10.546445357	1.28	2.69	27.21	0.445E-02	-0.166E-02	-13.5387
11 14	2011 21 59 60.00	13 32 15.01155	-07 11 10.5355	10.538716568	1.29	2.77	28.10	0.442E-02	-0.165E-02	-13.9398
11 15	2011 21 59 60.00	13 32 40.43234	-07 13 32.2282	10.530759351	1.29	2.85	28.99	0.440E-02	-0.164E-02	-14.3385
11 16	2011 21 59 60.00	13 33 5.72205	-07 15 52.8117	10.522575049	1.29	2.93	29.89	0.438E-02	-0.162E-02	-14.7347
11 17	2011 21 59 60.00	13 33 30.87558	-07 18 12.2546	10.514165040	1.29	3.01	30.78	0.435E-02	-0.161E-02	-15.1284
11 18	2011 21 59 60.00	13 33 55.88824	-07 20 30.5273	10.505530750	1.29	3.09	31.68	0.433E-02	-0.160E-02	-15.5195
11 19	2011 21 59 60.00	13 34 20.75585	-07 22 47.6029	10.496673670	1.29	3.16	32.57	0.430E-02	-0.158E-02	-15.9079
11 20	2011 21 59 60.00	13 34 45.47479	-07 25 3.4590	10.487595377	1.30	3.24	33.47	0.427E-02	-0.157E-02	-16.2934
11 21	2011 21 59 60.00	13 35 10.04191	-07 27 18.0780	10.478297567	1.30	3.31	34.37	0.424E-02	-0.156E-02	-16.6757
11 22	2011 21 59 60.00	13 35 34.45405	-07 29 31.4459	10.468782086	1.30	3.39	35.27	0.422E-02	-0.154E-02	-17.0546
11 23	2011 21 59 60.00	13 35 58.70750	-07 31 43.5492	10.459050955	1.30	3.46	36.18	0.419E-02	-0.153E-02	-17.4297
11 24	2011 21 59 60.00	13 36 22.79742	-07 33 54.3703	10.449106395	1.30	3.54	37.08	0.416E-02	-0.151E-02	-17.8008
11 25	2011 21 59 60.00	13 36 46.71774	-07 36 3.8845	10.438950819	1.30	3.61	37.98	0.412E-02	-0.150E-02	-18.1674
11 26	2011 21 59 60.00	13 37 10.46153	-07 38 12.0600	10.428586810	1.30	3.68	38.89	0.409E-02	-0.148E-02	-18.5293
11 27	2011 21 59 60.00	13 37 34.02186	-07 40 18.8616	10.418017081	1.30	3.75	39.80	0.406E-02	-0.146E-02	-18.8863
11 28	2011 21 59 60.00	13 37 57.39245	-07 42 24.2549	10.407244434	1.31	3.82	40.70	0.403E-02	-0.145E-02	-19.2383
11 29	2011 21 59 60.00	13 38 20.56807	-07 44 28.2101	10.396271718	1.31	3.89	41.61	0.399E-02	-0.143E-02	-19.5853
11 30	2011 21 59 60.00	13 38 43.54443	-07 46 30.7023	10.385101805	1.31	3.96	42.53	0.396E-02	-0.141E-02	-19.9272
12 1	2011 21 59 60.00	13 39 6.31785	-07 48 31.7115	10.373737576	1.31	4.03	43.44	0.392E-02	-0.140E-02	-20.2640
12 2	2011 21 59 60.00	13 39 28.88501	-07 50 31.2207	10.362181915	1.31	4.09	44.35	0.388E-02	-0.138E-02	-20.5957
12 3	2011 21 59 60.00	13 39 51.24271	-07 52 29.2151	10.350437708	1.31	4.16	45.27	0.385E-02	-0.136E-02	-20.9223
12 4	2011 21 59 60.00	13 40 13.38780	-07 54 25.6810	10.338507846	1.31	4.22	46.18	0.381E-02	-0.135E-02	-21.2438
12 5	2011 21 59 60.00	13 40 35.31700	-07 56 20.6049	10.326395227	1.31	4.28	47.10	0.377E-02	-0.133E-02	-21.5602
12 6	2011 21 59 60.00	13 40 57.02685	-07 58 13.9731	10.314102754	1.31	4.35	48.02	0.373E-02	-0.131E-02	-21.8714
12 7	2011 21 59 60.00	13 41 18.51365	-08 0 5.7712	10.301633337	1.31	4.41	48.94	0.369E-02	-0.129E-02	-22.1775
12 8	2011 21 59 60.00	13 41 39.77341	-08 1 55.9832	10.288989889	1.31	4.47	49.86	0.365E-02	-0.127E-02	-22.4784
12 9	2011 21 59 60.00	13 42 0.80178	-08 3 44.5912	10.276175322	1.31	4.53	50.78	0.361E-02	-0.125E-02	-22.7742
12 10	2011 21 59 60.00	13 42 21.59401	-08 5 31.5747	10.263192550	1.31	4.59	51.70	0.356E-02	-0.123E-02	-23.0648
12 11	2011 21 59 60.00	13 42 42.14507	-08 7 16.9105	10.250044489	1.31	4.64	52.63	0.352E-02	-0.122E-02	-23.3503
12 12	2011 21 59 60.00	13 43 2.44973	-08 9 0.5729	10.236734060	1.31	4.70	53.56	0.348E-02	-0.120E-02	-23.6306
12 13	2011 21 59 60.00	13 43 22.50278	-08 10 42.5350	10.223264199	1.31	4.75	54.48	0.343E-02	-0.118E-02	-23.9057
12 14	2011 21 59 60.00	13 43 42.29922	-08 12 22.7693	10.209637867	1.31	4.81	55.41	0.339E-02	-0.116E-02	-24.1756
12 15	2011 21 59 60.00	13 44 1.83447	-08 14 1.2500	10.195858071	1.31	4.86	56.34	0.334E-02	-0.114E-02	-24.4400
12 16	2011 21 59 60.00	13 44 21.10447	-08 15 37.9544	10.181927876	1.31	4.91	57.28	0.329E-02	-0.112E-02	-24.6990
12 17	2011 21 59 60.00	13 44 40.10570	-08 17 12.8637	10.167850430	1.31	4.96	58.21	0.325E-02	-0.110E-02	-24.9523
12 18	2011 21 59 60.00	13 44 58.83509	-08 18 45.9637	10.153628985	1.31	5.01	59.14	0.320E-02	-0.107E-02	-25.1998
12 19	2011 21 59 60.00	13 45 17.28962	-08 20 17.2435	10.139266920	1.30	5.06	60.08	0.315E-02	-0.105E-02	-25.4412
12 20	2011 21 59 60.00	13 45 35.46597	-08 21 46.6941	10.124767764	1.30	5.10	61.02	0.310E-02	-0.103E-02	-25.6763

12 21	2011 21 59 60.00	13 45 53.36007 -08 23 14.3046	10.110135211	1.30	5.15	61.96	0.305E-02	-0.101E-02	-25.9047
12 22	2011 21 59 60.00	13 46 10.96680 -08 24 40.0595	10.095373132	1.30	5.19	62.90	0.300E-02	-0.988E-03	-26.1261
12 23	2011 21 59 60.00	13 46 28.28015 -08 26 3.9369	10.080485564	1.30	5.23	63.84	0.294E-02	-0.966E-03	-26.3403
12 24	2011 21 59 60.00	13 46 45.29365 -08 27 25.9098	10.065476694	1.30	5.27	64.79	0.289E-02	-0.944E-03	-26.5470
12 25	2011 21 59 60.00	13 47 2.00110 -08 28 45.9490	10.050350819	1.30	5.31	65.73	0.284E-02	-0.922E-03	-26.7460
12 26	2011 21 59 60.00	13 47 18.39714 -08 30 4.0279	10.035112307	1.30	5.35	66.68	0.278E-02	-0.899E-03	-26.9374
12 27	2011 21 59 60.00	13 47 34.47747 -08 31 20.1243	10.019765567	1.29	5.39	67.63	0.273E-02	-0.876E-03	-27.1210
12 28	2011 21 59 60.00	13 47 50.23878 -08 32 34.2219	10.004315014	1.29	5.43	68.58	0.267E-02	-0.853E-03	-27.2968
12 29	2011 21 59 60.00	13 48 5.67833 -08 33 46.3090	9.988765057	1.29	5.46	69.53	0.262E-02	-0.830E-03	-27.4649
12 30	2011 21 59 60.00	13 48 20.79371 -08 34 56.3772	9.973120089	1.29	5.49	70.49	0.256E-02	-0.807E-03	-27.6253
12 31	2011 21 59 60.00	13 48 35.58260 -08 36 4.4200	9.957384490	1.29	5.52	71.44	0.250E-02	-0.784E-03	-27.7780