

Éphémérides de Jupiter d'août 2008 à août 2010

données IMCCE

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 EPHEMERIDES DES CORPS DU SYSTEME SOLAIRE
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Planete 5 Jupiter
 Theorie planetaire DE405/LE405
 Coordonnees Moyennes de la date
 Centre du repere : geocentre
 Coordonnees equatoriales (R.A, Dec.)

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			Date UTC			R.A			Dec.		Distance	V.Mag	Phase	Elong.	
			h	m	s	h	m	s	o	'	"	ua.		o	o
1	8	2008	0	0	0.00	19	4	1.07435	-22	52	4.0098	4.228196444	-2.68	4.65	155.71
2	8	2008	0	0	0.00	19	3	33.81650	-22	52	52.4478	4.234467162	-2.67	4.84	154.65
3	8	2008	0	0	0.00	19	3	7.06763	-22	53	39.7470	4.241001789	-2.67	5.03	153.59
4	8	2008	0	0	0.00	19	2	40.84674	-22	54	25.8928	4.247797232	-2.67	5.22	152.53
5	8	2008	0	0	0.00	19	2	15.17197	-22	55	10.8731	4.254850259	-2.66	5.40	151.47
6	8	2008	0	0	0.00	19	1	50.06066	-22	55	54.6776	4.262157532	-2.66	5.58	150.42
7	8	2008	0	0	0.00	19	1	25.52932	-22	56	37.2979	4.269715638	-2.65	5.76	149.36
8	8	2008	0	0	0.00	19	1	1.59372	-22	57	18.7275	4.277521106	-2.65	5.94	148.31
9	8	2008	0	0	0.00	19	0	38.26887	-22	57	58.9613	4.285570418	-2.64	6.11	147.26
10	8	2008	0	0	0.00	19	0	15.56914	-22	58	37.9960	4.293860021	-2.64	6.28	146.22
11	8	2008	0	0	0.00	18	59	53.50822	-22	59	15.8292	4.302386328	-2.63	6.45	145.17
12	8	2008	0	0	0.00	18	59	32.09916	-22	59	52.4600	4.311145726	-2.63	6.62	144.13
13	8	2008	0	0	0.00	18	59	11.35439	-23	0	27.8884	4.320134583	-2.62	6.78	143.09
14	8	2008	0	0	0.00	18	58	51.28572	-23	1	2.1155	4.329349252	-2.62	6.95	142.05
15	8	2008	0	0	0.00	18	58	31.90438	-23	1	35.1433	4.338786084	-2.61	7.10	141.02
16	8	2008	0	0	0.00	18	58	13.22104	-23	2	6.9747	4.348441437	-2.61	7.26	139.98
17	8	2008	0	0	0.00	18	57	55.24587	-23	2	37.6129	4.358311684	-2.60	7.42	138.95
18	8	2008	0	0	0.00	18	57	37.98859	-23	3	7.0620	4.368393221	-2.60	7.57	137.93
19	8	2008	0	0	0.00	18	57	21.45853	-23	3	35.3260	4.378682465	-2.59	7.71	136.90
20	8	2008	0	0	0.00	18	57	5.66471	-23	4	2.4090	4.389175853	-2.58	7.86	135.88
21	8	2008	0	0	0.00	18	56	50.61591	-23	4	28.3150	4.399869822	-2.58	8.00	134.86
22	8	2008	0	0	0.00	18	56	36.32072	-23	4	53.0474	4.410760800	-2.57	8.14	133.84
23	8	2008	0	0	0.00	18	56	22.78754	-23	5	16.6091	4.421845173	-2.57	8.28	132.82
24	8	2008	0	0	0.00	18	56	10.02462	-23	5	39.0024	4.433119267	-2.56	8.41	131.81
25	8	2008	0	0	0.00	18	55	58.04001	-23	6	0.2288	4.444579319	-2.55	8.54	130.80
26	8	2008	0	0	0.00	18	55	46.84150	-23	6	20.2892	4.456221453	-2.55	8.67	129.79
27	8	2008	0	0	0.00	18	55	36.43659	-23	6	39.1840	4.468041663	-2.54	8.79	128.79
28	8	2008	0	0	0.00	18	55	26.83236	-23	6	56.9130	4.480035801	-2.54	8.92	127.78
29	8	2008	0	0	0.00	18	55	18.03534	-23	7	13.4761	4.492199573	-2.53	9.03	126.78
30	8	2008	0	0	0.00	18	55	10.05147	-23	7	28.8731	4.504528554	-2.52	9.15	125.79
31	8	2008	0	0	0.00	18	55	2.88596	-23	7	43.1042	4.517018208	-2.52	9.26	124.79
1	9	2008	0	0	0.00	18	54	56.54326	-23	7	56.1702	4.529663915	-2.51	9.37	123.80
2	9	2008	0	0	0.00	18	54	51.02704	-23	8	8.0721	4.542461010	-2.50	9.48	122.81
3	9	2008	0	0	0.00	18	54	46.34023	-23	8	18.8118	4.555404806	-2.50	9.58	121.82
4	9	2008	0	0	0.00	18	54	42.48504	-23	8	28.3914	4.568490628	-2.49	9.68	120.84
5	9	2008	0	0	0.00	18	54	39.46306	-23	8	36.8137	4.581713819	-2.48	9.77	119.86
6	9	2008	0	0	0.00	18	54	37.27527	-23	8	44.0815	4.595069759	-2.48	9.87	118.88
7	9	2008	0	0	0.00	18	54	35.92213	-23	8	50.1977	4.608553868	-2.47	9.96	117.90
8	9	2008	0	0	0.00	18	54	35.40361	-23	8	55.1655	4.622161608	-2.46	10.04	116.93
9	9	2008	0	0	0.00	18	54	35.71922	-23	8	58.9877	4.635888486	-2.46	10.13	115.96
10	9	2008	0	0	0.00	18	54	36.86804	-23	9	1.6672	4.649730060	-2.45	10.21	114.99
11	9	2008	0	0	0.00	18	54	38.84874	-23	9	3.2070	4.663681942	-2.44	10.29	114.03
12	9	2008	0	0	0.00	18	54	41.65961	-23	9	3.6096	4.677739807	-2.44	10.36	113.07
13	9	2008	0	0	0.00	18	54	45.29863	-23	9	2.8774	4.691899402	-2.43	10.43	112.11
14	9	2008	0	0	0.00	18	54	49.76347	-23	9	1.0124	4.706156554	-2.42	10.50	111.15
15	9	2008	0	0	0.00	18	54	55.05161	-23	8	58.0163	4.720507172	-2.42	10.56	110.20
16	9	2008	0	0	0.00	18	55	1.16038	-23	8	53.8900	4.734947250	-2.41	10.62	109.25
17	9	2008	0	0	0.00	18	55	8.08707	-23	8	48.6336	4.749472854	-2.40	10.68	108.30
18	9	2008	0	0	0.00	18	55	15.82900	-23	8	42.2462	4.764080104	-2.40	10.74	107.35
19	9	2008	0	0	0.00	18	55	24.38353	-23	8	34.7256	4.778765140	-2.39	10.79	106.41
20	9	2008	0	0	0.00	18	55	33.74811	-23	8	26.0684	4.793524097	-2.38	10.84	105.47
21	9	2008	0	0	0.00	18	55	43.92025	-23	8	16.2699	4.808353066	-2.38	10.88	104.53
22	9	2008	0	0	0.00	18	55	54.89742	-23	8	5.3243	4.823248073	-2.37	10.92	103.60
23	9	2008	0	0	0.00	18	56	6.67701	-23	7	53.2248	4.838205063	-2.36	10.96	102.66
24	9	2008	0	0	0.00	18	56	19.25624	-23	7	39.9638	4.853219886	-2.36	11.00	101.73
25	9	2008	0	0	0.00	18	56	32.63206	-23	7	25.5333	4.868288306	-2.35	11.03	100.80
26	9	2008	0	0	0.00	18	56	46.80110	-23	7	9.9248	4.883406005	-2.34	11.06	99.88
27	9	2008	0	0	0.00	18	57	1.75959	-23	6	53.1298	4.898568602	-2.34	11.09	98.95

28	9	2008	0	0	0.00	18	57	17.50335	-23	6	35.1397	4.913771671	-2.33	11.12	98.03
29	9	2008	0	0	0.00	18	57	34.02773	-23	6	15.9462	4.929010769	-2.32	11.14	97.11
30	9	2008	0	0	0.00	18	57	51.32765	-23	5	55.5413	4.944281455	-2.32	11.15	96.20
1	10	2008	0	0	0.00	18	58	9.39759	-23	5	33.9172	4.959579322	-2.31	11.17	95.28
2	10	2008	0	0	0.00	18	58	28.23168	-23	5	11.0664	4.974900005	-2.30	11.18	94.37
3	10	2008	0	0	0.00	18	58	47.82369	-23	4	46.9817	4.990239204	-2.30	11.19	93.46
4	10	2008	0	0	0.00	18	59	8.16712	-23	4	21.6558	5.005592686	-2.29	11.20	92.56
5	10	2008	0	0	0.00	18	59	29.25522	-23	3	55.0818	5.020956293	-2.28	11.20	91.65
6	10	2008	0	0	0.00	18	59	51.08105	-23	3	27.2525	5.036325942	-2.28	11.20	90.75
7	10	2008	0	0	0.00	19	0	13.63746	-23	2	58.1609	5.051697628	-2.27	11.20	89.85
8	10	2008	0	0	0.00	19	0	36.91719	-23	2	27.8000	5.067067423	-2.26	11.20	88.96
9	10	2008	0	0	0.00	19	1	0.91281	-23	1	56.1625	5.082431482	-2.26	11.19	88.06
10	10	2008	0	0	0.00	19	1	25.61680	-23	1	23.2414	5.097786046	-2.25	11.18	87.17
11	10	2008	0	0	0.00	19	1	51.02155	-23	0	49.0293	5.113127452	-2.24	11.17	86.28
12	10	2008	0	0	0.00	19	2	17.11940	-23	0	13.5188	5.128452138	-2.24	11.15	85.39
13	10	2008	0	0	0.00	19	2	43.90273	-22	59	36.7021	5.143756646	-2.23	11.13	84.50
14	10	2008	0	0	0.00	19	3	11.36400	-22	58	58.5710	5.159037628	-2.23	11.11	83.62
15	10	2008	0	0	0.00	19	3	39.49583	-22	58	19.1167	5.174291826	-2.22	11.09	82.74
16	10	2008	0	0	0.00	19	4	8.29109	-22	57	38.3295	5.189516051	-2.21	11.06	81.86
17	10	2008	0	0	0.00	19	4	37.74293	-22	56	56.1985	5.204707146	-2.21	11.03	80.98
18	10	2008	0	0	0.00	19	5	7.84477	-22	56	12.7120	5.219861946	-2.20	11.00	80.10
19	10	2008	0	0	0.00	19	5	38.59024	-22	55	27.8571	5.234977239	-2.20	10.97	79.23
20	10	2008	0	0	0.00	19	6	9.97311	-22	54	41.6203	5.250049738	-2.19	10.93	78.36
21	10	2008	0	0	0.00	19	6	41.98715	-22	53	53.9874	5.265076073	-2.18	10.89	77.49
22	10	2008	0	0	0.00	19	7	14.62606	-22	53	4.9441	5.280052792	-2.18	10.85	76.62
23	10	2008	0	0	0.00	19	7	47.88341	-22	52	14.4763	5.294976372	-2.17	10.81	75.75
24	10	2008	0	0	0.00	19	8	21.75254	-22	51	22.5699	5.309843242	-2.17	10.76	74.88
25	10	2008	0	0	0.00	19	8	56.22658	-22	50	29.2114	5.324649800	-2.16	10.72	74.02
26	10	2008	0	0	0.00	19	9	31.29839	-22	49	34.3876	5.339392433	-2.16	10.66	73.16
27	10	2008	0	0	0.00	19	10	6.96060	-22	48	38.0862	5.354067541	-2.15	10.61	72.30
28	10	2008	0	0	0.00	19	10	43.20560	-22	47	40.2954	5.368671551	-2.14	10.56	71.44
29	10	2008	0	0	0.00	19	11	20.02556	-22	46	41.0040	5.383200935	-2.14	10.50	70.58
30	10	2008	0	0	0.00	19	11	57.41246	-22	45	40.2014	5.397652222	-2.13	10.44	69.73
31	10	2008	0	0	0.00	19	12	35.35813	-22	44	37.8776	5.412022011	-2.13	10.38	68.88
1	11	2008	0	0	0.00	19	13	13.85426	-22	43	34.0234	5.426306977	-2.12	10.31	68.03
2	11	2008	0	0	0.00	19	13	52.89246	-22	42	28.6297	5.440503877	-2.12	10.25	67.18
3	11	2008	0	0	0.00	19	14	32.46427	-22	41	21.6880	5.454609549	-2.11	10.18	66.33
4	11	2008	0	0	0.00	19	15	12.56118	-22	40	13.1902	5.468620916	-2.11	10.11	65.48
5	11	2008	0	0	0.00	19	15	53.17466	-22	39	3.1286	5.482534987	-2.10	10.04	64.64
6	11	2008	0	0	0.00	19	16	34.29617	-22	37	51.4958	5.496348859	-2.10	9.96	63.79
7	11	2008	0	0	0.00	19	17	15.91717	-22	36	38.2845	5.510059719	-2.09	9.89	62.95
8	11	2008	0	0	0.00	19	17	58.02918	-22	35	23.4881	5.523664852	-2.09	9.81	62.11
9	11	2008	0	0	0.00	19	18	40.62373	-22	34	7.0997	5.537161645	-2.08	9.73	61.27
10	11	2008	0	0	0.00	19	19	23.69250	-22	32	49.1129	5.550547594	-2.08	9.65	60.43
11	11	2008	0	0	0.00	19	20	7.22730	-22	31	29.5208	5.563820302	-2.07	9.56	59.60
12	11	2008	0	0	0.00	19	20	51.22021	-22	30	8.3164	5.576977469	-2.07	9.48	58.76
13	11	2008	0	0	0.00	19	21	35.66360	-22	28	45.4920	5.590016871	-2.06	9.39	57.93
14	11	2008	0	0	0.00	19	22	20.55017	-22	27	21.0392	5.602936317	-2.06	9.30	57.10
15	11	2008	0	0	0.00	19	23	5.87298	-22	25	54.9486	5.615733606	-2.06	9.21	56.27
16	11	2008	0	0	0.00	19	23	51.62537	-22	24	27.2101	5.628406478	-2.05	9.12	55.44
17	11	2008	0	0	0.00	19	24	37.80085	-22	22	57.8133	5.640952588	-2.05	9.03	54.61
18	11	2008	0	0	0.00	19	25	24.39296	-22	21	26.7478	5.653369495	-2.04	8.93	53.78
19	11	2008	0	0	0.00	19	26	11.39521	-22	19	54.0033	5.665654671	-2.04	8.83	52.96
20	11	2008	0	0	0.00	19	26	58.80097	-22	18	19.5703	5.677805526	-2.04	8.73	52.13
21	11	2008	0	0	0.00	19	27	46.60344	-22	16	43.4401	5.689819433	-2.03	8.63	51.31
22	11	2008	0	0	0.00	19	28	34.79562	-22	15	5.6049	5.701693752	-2.03	8.53	50.49
23	11	2008	0	0	0.00	19	29	23.37034	-22	13	26.0578	5.713425858	-2.02	8.43	49.67
24	11	2008	0	0	0.00	19	30	12.32027	-22	11	44.7931	5.725013150	-2.02	8.32	48.85
25	11	2008	0	0	0.00	19	31	1.63793	-22	10	1.8058	5.736453069	-2.02	8.21	48.03
26	11	2008	0	0	0.00	19	31	51.31569	-22	8	17.0920	5.747743108	-2.01	8.10	47.21
27	11	2008	0	0	0.00	19	32	41.34583	-22	6	30.6486	5.758880823	-2.01	7.99	46.39
28	11	2008	0	0	0.00	19	33	31.72052	-22	4	42.4735	5.769863837	-2.01	7.88	45.58
29	11	2008	0	0	0.00	19	34	22.43189	-22	2	52.5653	5.780689852	-2.00	7.77	44.76
30	11	2008	0	0	0.00	19	35	13.47200	-22	1	0.9234	5.791356647	-2.00	7.66	43.95
1	12	2008	0	0	0.00	19	36	4.83288	-21	59	7.5479	5.801862088	-2.00	7.54	43.14
2	12	2008	0	0	0.00	19	36	56.50657	-21	57	12.4396	5.812204127	-1.99	7.42	42.32
3	12	2008	0	0	0.00	19	37	48.48513	-21	55	15.5999	5.822380804	-1.99	7.31	41.51
4	12	2008	0	0	0.00	19	38	40.76061	-21	53	17.0306	5.832390250	-1.99	7.19	40.70
5	12	2008	0	0	0.00	19	39	33.32515	-21	51	16.7342	5.842230689	-1.98	7.07	39.89
6	12	2008	0	0	0.00	19	40	26.17093	-21	49	14.7134	5.851900438	-1.98	6.95	39.09
7	12	2008	0	0	0.00	19	41	19.29022	-21	47	10.9714	5.861397919	-1.98	6.82	38.28
8	12	2008	0	0	0.00	19	42	12.67543	-21	45	5.5114	5.870721653	-1.98	6.70	37.47
9	12	2008	0	0	0.00	19	43	6.31913	-21	42	58.3370	5.879870267	-1.97	6.57	36.67
10	12	2008	0	0	0.00	19	44	0.21412	-21	40	49.4511	5.888842479	-1.97	6.45	35.87
11	12	2008	0	0	0.00	19	44	54.35352	-21	38	38.8563	5.897637084	-1.97	6.32	35.06
12	12	2008	0	0	0.00	19	45	48.73074	-21	36	26.5545	5.906252915	-1.97	6.19	34.26
13	12	2008	0	0	0.00	19	46	43.33957	-21	34	12.5469	5.914688797	-1.96	6.06	33.46
14	12	2008	0	0	0.00	19	47	38.17406	-21	31	56.8338	5.922943500	-1.96	5.93	32.66
15	12	2008	0	0	0.00	19	48	33.22848	-21	29	39.4153	5.931015702	-1.96	5.80	31.86

16	12	2008	0	0	0.00	19	49	28.49714	-21	27	20.2916	5.938903979	-1.96	5.67	31.06
17	12	2008	0	0	0.00	19	50	23.97430	-21	24	59.4637	5.946606810	-1.95	5.54	30.26
18	12	2008	0	0	0.00	19	51	19.65410	-21	22	36.9332	5.954122611	-1.95	5.40	29.46
19	12	2008	0	0	0.00	19	52	15.53048	-21	20	12.7034	5.961449767	-1.95	5.27	28.67
20	12	2008	0	0	0.00	19	53	11.59720	-21	17	46.7783	5.968586660	-1.95	5.13	27.87
21	12	2008	0	0	0.00	19	54	7.84788	-21	15	19.1637	5.975531696	-1.95	5.00	27.07
22	12	2008	0	0	0.00	19	55	4.27597	-21	12	49.8661	5.982283323	-1.95	4.86	26.28
23	12	2008	0	0	0.00	19	56	0.87480	-21	10	18.8934	5.988840037	-1.94	4.72	25.48
24	12	2008	0	0	0.00	19	56	57.63761	-21	7	46.2545	5.995200394	-1.94	4.58	24.69
25	12	2008	0	0	0.00	19	57	54.55757	-21	5	11.9593	6.001363014	-1.94	4.44	23.89
26	12	2008	0	0	0.00	19	58	51.62776	-21	2	36.0187	6.007326586	-1.94	4.30	23.10
27	12	2008	0	0	0.00	19	59	48.84121	-20	59	58.4443	6.013089875	-1.94	4.16	22.31
28	12	2008	0	0	0.00	20	0	46.19093	-20	57	19.2489	6.018651724	-1.94	4.02	21.52
29	12	2008	0	0	0.00	20	1	43.66989	-20	54	38.4458	6.024011060	-1.94	3.88	20.73
30	12	2008	0	0	0.00	20	2	41.27106	-20	51	56.0492	6.029166900	-1.94	3.74	19.94
31	12	2008	0	0	0.00	20	3	38.98743	-20	49	12.0739	6.034118350	-1.93	3.59	19.15
1	1	2009	0	0	0.00	20	4	36.81203	-20	46	26.5354	6.038864613	-1.93	3.45	18.36
2	1	2009	0	0	0.00	20	5	34.73792	-20	43	39.4494	6.043404983	-1.93	3.30	17.57
3	1	2009	0	0	0.00	20	6	32.75825	-20	40	50.8322	6.047738854	-1.93	3.16	16.78
4	1	2009	0	0	0.00	20	7	30.86627	-20	38	0.7003	6.051865717	-1.93	3.01	15.99
5	1	2009	0	0	0.00	20	8	29.05538	-20	35	9.0703	6.055785158	-1.93	2.87	15.20
6	1	2009	0	0	0.00	20	9	27.31912	-20	32	15.9585	6.059496858	-1.93	2.72	14.42
7	1	2009	0	0	0.00	20	10	25.65127	-20	29	21.3812	6.063000583	-1.93	2.57	13.63
8	1	2009	0	0	0.00	20	11	24.04584	-20	26	25.3541	6.066296163	-1.93	2.43	12.85
9	1	2009	0	0	0.00	20	12	22.49717	-20	23	27.8919	6.069383466	-1.93	2.28	12.06
10	1	2009	0	0	0.00	20	13	20.99988	-20	20	29.0087	6.072262355	-1.93	2.13	11.28
11	1	2009	0	0	0.00	20	14	19.54888	-20	17	28.7178	6.074932645	-1.93	1.98	10.49
12	1	2009	0	0	0.00	20	15	18.13925	-20	14	27.0321	6.077394067	-1.93	1.84	9.71
13	1	2009	0	0	0.00	20	16	16.76616	-20	11	23.9646	6.079646246	-1.93	1.69	8.93
14	1	2009	0	0	0.00	20	17	15.42473	-20	8	19.5289	6.081688711	-1.93	1.54	8.15
15	1	2009	0	0	0.00	20	18	14.10995	-20	5	13.7399	6.083520922	-1.93	1.39	7.36
16	1	2009	0	0	0.00	20	19	12.81662	-20	2	6.6137	6.085142300	-1.93	1.24	6.58
17	1	2009	0	0	0.00	20	20	11.53936	-19	58	58.1679	6.086552269	-1.93	1.09	5.80
18	1	2009	0	0	0.00	20	21	10.27262	-19	55	48.4215	6.087750276	-1.93	0.94	5.02
19	1	2009	0	0	0.00	20	22	9.01068	-19	52	37.3946	6.088735818	-1.93	0.79	4.24
20	1	2009	0	0	0.00	20	23	7.74772	-19	49	25.1088	6.089508446	-1.93	0.64	3.47
21	1	2009	0	0	0.00	20	24	6.47781	-19	46	11.5865	6.090067774	-1.93	0.49	2.69
22	1	2009	0	0	0.00	20	25	5.19496	-19	42	56.8512	6.090413482	-1.93	0.35	1.93
23	1	2009	0	0	0.00	20	26	3.89311	-19	39	40.9273	6.090545318	-1.94	0.21	1.18
24	1	2009	0	0	0.00	20	27	2.56613	-19	36	23.8400	6.090463106	-1.94	0.09	0.54
25	1	2009	0	0	0.00	20	28	1.20787	-19	33	5.6155	6.090166741	-1.94	0.14	359.36
26	1	2009	0	0	0.00	20	28	59.81212	-19	29	46.2808	6.089656206	-1.94	0.28	358.68
27	1	2009	0	0	0.00	20	29	58.37268	-19	26	25.8633	6.088931567	-1.94	0.42	357.93
28	1	2009	0	0	0.00	20	30	56.88332	-19	23	4.3914	6.087992985	-1.93	0.57	357.16
29	1	2009	0	0	0.00	20	31	55.33784	-19	19	41.8938	6.086840718	-1.93	0.72	356.39
30	1	2009	0	0	0.00	20	32	53.73010	-19	16	18.3996	6.085475121	-1.93	0.87	355.61
31	1	2009	0	0	0.00	20	33	52.05404	-19	12	53.9379	6.083896648	-1.93	1.02	354.84
1	2	2009	0	0	0.00	20	34	50.30367	-19	9	28.5382	6.082105850	-1.93	1.17	354.06
2	2	2009	0	0	0.00	20	35	48.47319	-19	6	2.2295	6.080103368	-1.93	1.32	353.28
3	2	2009	0	0	0.00	20	36	46.55692	-19	2	35.0406	6.077889922	-1.93	1.47	352.51
4	2	2009	0	0	0.00	20	37	44.54943	-18	59	6.9998	6.075466305	-1.94	1.62	351.73
5	2	2009	0	0	0.00	20	38	42.44549	-18	55	38.1344	6.072833355	-1.94	1.77	350.95
6	2	2009	0	0	0.00	20	39	40.24014	-18	52	8.4713	6.069991937	-1.94	1.91	350.17
7	2	2009	0	0	0.00	20	40	37.92867	-18	48	38.0361	6.066942902	-1.94	2.06	349.40
8	2	2009	0	0	0.00	20	41	35.50658	-18	45	6.8538	6.063687056	-1.94	2.21	348.62
9	2	2009	0	0	0.00	20	42	32.96956	-18	41	34.9490	6.060225131	-1.94	2.36	347.84
10	2	2009	0	0	0.00	20	43	30.31334	-18	38	2.3463	6.056557761	-1.94	2.51	347.06
11	2	2009	0	0	0.00	20	44	27.53364	-18	34	29.0709	6.052685488	-1.94	2.65	346.29
12	2	2009	0	0	0.00	20	45	24.62603	-18	30	55.1490	6.048608782	-1.94	2.80	345.51
13	2	2009	0	0	0.00	20	46	21.58593	-18	27	20.6083	6.044328070	-1.94	2.95	344.73
14	2	2009	0	0	0.00	20	47	18.40853	-18	23	45.4779	6.039843771	-1.94	3.09	343.95
15	2	2009	0	0	0.00	20	48	15.08885	-18	20	9.7883	6.035156329	-1.94	3.24	343.18
16	2	2009	0	0	0.00	20	49	11.62173	-18	16	33.5714	6.030266230	-1.94	3.38	342.40
17	2	2009	0	0	0.00	20	50	8.00189	-18	12	56.8604	6.025174016	-1.95	3.53	341.62
18	2	2009	0	0	0.00	20	51	4.22391	-18	9	19.6893	6.019880291	-1.95	3.67	340.84
19	2	2009	0	0	0.00	20	52	0.28230	-18	5	42.0932	6.014385728	-1.95	3.82	340.06
20	2	2009	0	0	0.00	20	52	56.17150	-18	2	4.1081	6.008691065	-1.95	3.96	339.28
21	2	2009	0	0	0.00	20	53	51.88585	-17	58	25.7706	6.002797109	-1.95	4.10	338.50
22	2	2009	0	0	0.00	20	54	47.41966	-17	54	47.1183	5.996704742	-1.95	4.24	337.73
23	2	2009	0	0	0.00	20	55	42.76717	-17	51	8.1893	5.990414924	-1.95	4.38	336.95
24	2	2009	0	0	0.00	20	56	37.92257	-17	47	29.0227	5.983928699	-1.96	4.52	336.17
25	2	2009	0	0	0.00	20	57	32.88002	-17	43	49.6577	5.977247203	-1.96	4.66	335.39
26	2	2009	0	0	0.00	20	58	27.63369	-17	40	10.1343	5.970371672	-1.96	4.80	334.61
27	2	2009	0	0	0.00	20	59	22.17778	-17	36	30.4925	5.963303445	-1.96	4.94	333.83
28	2	2009	0	0	0.00	21	0	16.50655	-17	32	50.7722	5.956043959	-1.96	5.08	333.05
1	3	2009	0	0	0.00	21	1	10.61436	-17	29	11.0132	5.948594752	-1.97	5.22	332.26
2	3	2009	0	0	0.00	21	2	4.49573	-17	25	31.2546	5.940957445	-1.97	5.35	331.48
3	3	2009	0	0	0.00	21	2	58.14536	-17	21	51.5349	5.933133731	-1.97	5.49	330.70
4	3	2009	0	0	0.00	21	3	51.55814	-17	18	11.8917	5.925125354	-1.97	5.62	329.92

5	3	2009	0	0	0.00	21	4	44.72919	-17	14	32.3616	5.916934082	-1.98	5.76	329.14
6	3	2009	0	0	0.00	21	5	37.65384	-17	10	52.9802	5.908561689	-1.98	5.89	328.36
7	3	2009	0	0	0.00	21	6	30.32764	-17	7	13.7822	5.900009920	-1.98	6.02	327.57
8	3	2009	0	0	0.00	21	7	22.74628	-17	3	34.8016	5.891280468	-1.98	6.15	326.79
9	3	2009	0	0	0.00	21	8	14.90558	-16	59	56.0720	5.882374956	-1.99	6.28	326.01
10	3	2009	0	0	0.00	21	9	6.80140	-16	56	17.6270	5.873294920	-1.99	6.41	325.23
11	3	2009	0	0	0.00	21	9	58.42951	-16	52	39.5010	5.864041816	-1.99	6.54	324.44
12	3	2009	0	0	0.00	21	10	49.78561	-16	49	1.7292	5.854617030	-2.00	6.66	323.66
13	3	2009	0	0	0.00	21	11	40.86519	-16	45	24.3480	5.845021909	-2.00	6.79	322.87
14	3	2009	0	0	0.00	21	12	31.66353	-16	41	47.3955	5.835257786	-2.00	6.91	322.09
15	3	2009	0	0	0.00	21	13	22.17572	-16	38	10.9111	5.825326013	-2.01	7.04	321.30
16	3	2009	0	0	0.00	21	14	12.39666	-16	34	34.9356	5.815227975	-2.01	7.16	320.51
17	3	2009	0	0	0.00	21	15	2.32107	-16	30	59.5109	5.804965112	-2.01	7.28	319.73
18	3	2009	0	0	0.00	21	15	51.94356	-16	27	24.6801	5.794538924	-2.02	7.40	318.94
19	3	2009	0	0	0.00	21	16	41.25859	-16	23	50.4871	5.783950976	-2.02	7.52	318.15
20	3	2009	0	0	0.00	21	17	30.26056	-16	20	16.9764	5.773202899	-2.02	7.64	317.36
21	3	2009	0	0	0.00	21	18	18.94374	-16	16	44.1936	5.762296393	-2.03	7.75	316.57
22	3	2009	0	0	0.00	21	19	7.30233	-16	13	12.1847	5.751233227	-2.03	7.87	315.78
23	3	2009	0	0	0.00	21	19	55.33046	-16	9	40.9965	5.740015249	-2.03	7.98	314.99
24	3	2009	0	0	0.00	21	20	43.02218	-16	6	10.6763	5.728644388	-2.04	8.10	314.20
25	3	2009	0	0	0.00	21	21	30.37147	-16	2	41.2719	5.717122665	-2.04	8.21	313.40
26	3	2009	0	0	0.00	21	22	17.37231	-15	59	12.8313	5.705452203	-2.05	8.32	312.61
27	3	2009	0	0	0.00	21	23	4.01866	-15	55	45.4028	5.693635229	-2.05	8.43	311.81
28	3	2009	0	0	0.00	21	23	50.30455	-15	52	19.0341	5.681674081	-2.05	8.53	311.02
29	3	2009	0	0	0.00	21	24	36.22412	-15	48	53.7724	5.669571198	-2.06	8.64	310.22
30	3	2009	0	0	0.00	21	25	21.77167	-15	45	29.6639	5.657329105	-2.06	8.74	309.42
31	3	2009	0	0	0.00	21	26	6.94170	-15	42	6.7537	5.644950388	-2.07	8.85	308.63
1	4	2009	0	0	0.00	21	26	51.72894	-15	38	45.0855	5.632437671	-2.07	8.95	307.83
2	4	2009	0	0	0.00	21	27	36.12834	-15	35	24.7015	5.619793582	-2.08	9.05	307.03
3	4	2009	0	0	0.00	21	28	20.13507	-15	32	5.6429	5.607020726	-2.08	9.15	306.23
4	4	2009	0	0	0.00	21	29	3.74444	-15	28	47.9499	5.594121663	-2.08	9.24	305.42
5	4	2009	0	0	0.00	21	29	46.95191	-15	25	31.6622	5.581098888	-2.09	9.34	304.62
6	4	2009	0	0	0.00	21	30	29.75294	-15	22	16.8190	5.567954825	-2.09	9.43	303.82
7	4	2009	0	0	0.00	21	31	12.14303	-15	19	3.4598	5.554691825	-2.10	9.52	303.01
8	4	2009	0	0	0.00	21	31	54.11757	-15	15	51.6250	5.541312168	-2.10	9.61	302.21
9	4	2009	0	0	0.00	21	32	35.67182	-15	12	41.3554	5.527818082	-2.11	9.70	301.40
10	4	2009	0	0	0.00	21	33	16.80088	-15	9	32.6935	5.514211764	-2.11	9.79	300.59
11	4	2009	0	0	0.00	21	33	57.49962	-15	6	25.6827	5.500495400	-2.12	9.87	299.78
12	4	2009	0	0	0.00	21	34	37.76272	-15	3	20.3680	5.486671191	-2.12	9.95	298.97
13	4	2009	0	0	0.00	21	35	17.58465	-15	0	16.7956	5.472741374	-2.13	10.03	298.16
14	4	2009	0	0	0.00	21	35	56.95974	-14	57	15.0127	5.458708233	-2.14	10.11	297.34
15	4	2009	0	0	0.00	21	36	35.88211	-14	54	15.0676	5.444574112	-2.14	10.19	296.53
16	4	2009	0	0	0.00	21	37	14.34580	-14	51	17.0090	5.430341422	-2.15	10.27	295.71
17	4	2009	0	0	0.00	21	37	52.34471	-14	48	20.8868	5.416012638	-2.15	10.34	294.90
18	4	2009	0	0	0.00	21	38	29.87264	-14	45	26.7511	5.401590309	-2.16	10.41	294.08
19	4	2009	0	0	0.00	21	39	6.92331	-14	42	34.6525	5.387077054	-2.16	10.48	293.26
20	4	2009	0	0	0.00	21	39	43.49036	-14	39	44.6421	5.372475570	-2.17	10.55	292.43
21	4	2009	0	0	0.00	21	40	19.56733	-14	36	56.7714	5.357788638	-2.17	10.61	291.61
22	4	2009	0	0	0.00	21	40	55.14773	-14	34	11.0921	5.343019134	-2.18	10.68	290.79
23	4	2009	0	0	0.00	21	41	30.22501	-14	31	27.6559	5.328170034	-2.19	10.74	289.96
24	4	2009	0	0	0.00	21	42	4.79265	-14	28	46.5142	5.313244430	-2.19	10.80	289.13
25	4	2009	0	0	0.00	21	42	38.84419	-14	26	7.7177	5.298245527	-2.20	10.86	288.30
26	4	2009	0	0	0.00	21	43	12.37332	-14	23	31.3160	5.283176639	-2.20	10.91	287.47
27	4	2009	0	0	0.00	21	43	45.37393	-14	20	57.3570	5.268041172	-2.21	10.96	286.64
28	4	2009	0	0	0.00	21	44	17.84019	-14	18	25.8866	5.252842590	-2.22	11.01	285.80
29	4	2009	0	0	0.00	21	44	49.76657	-14	15	56.9487	5.237584380	-2.22	11.06	284.96
30	4	2009	0	0	0.00	21	45	21.14780	-14	13	30.5853	5.222270015	-2.23	11.11	284.12
1	5	2009	0	0	0.00	21	45	51.97888	-14	11	6.8366	5.206902920	-2.23	11.15	283.28
2	5	2009	0	0	0.00	21	46	22.25495	-14	8	45.7417	5.191486454	-2.24	11.19	282.44
3	5	2009	0	0	0.00	21	46	51.97126	-14	6	27.3393	5.176023900	-2.25	11.23	281.60
4	5	2009	0	0	0.00	21	47	21.12309	-14	4	11.6674	5.160518465	-2.25	11.27	280.75
5	5	2009	0	0	0.00	21	47	49.70568	-14	1	58.7645	5.144973291	-2.26	11.30	279.90
6	5	2009	0	0	0.00	21	48	17.71420	-13	59	48.6697	5.129391464	-2.27	11.33	279.06
7	5	2009	0	0	0.00	21	48	45.14369	-13	57	41.4224	5.113776037	-2.27	11.36	278.20
8	5	2009	0	0	0.00	21	49	11.98904	-13	55	37.0631	5.098130043	-2.28	11.39	277.35
9	5	2009	0	0	0.00	21	49	38.24497	-13	53	35.6334	5.082456515	-2.29	11.41	276.50
10	5	2009	0	0	0.00	21	50	3.90607	-13	51	37.1753	5.066758506	-2.29	11.43	275.64
11	5	2009	0	0	0.00	21	50	28.96674	-13	49	41.7321	5.051039105	-2.30	11.45	274.78
12	5	2009	0	0	0.00	21	50	53.42128	-13	47	49.3474	5.035301448	-2.31	11.47	273.92
13	5	2009	0	0	0.00	21	51	17.26386	-13	46	0.0652	5.019548732	-2.31	11.48	273.05
14	5	2009	0	0	0.00	21	51	40.48858	-13	44	13.9302	5.003784217	-2.32	11.49	272.19
15	5	2009	0	0	0.00	21	52	3.08946	-13	42	30.9867	4.988011233	-2.33	11.50	271.32
16	5	2009	0	0	0.00	21	52	25.06048	-13	40	51.2792	4.972233183	-2.34	11.51	270.45
17	5	2009	0	0	0.00	21	52	46.39559	-13	39	14.8523	4.956453543	-2.34	11.51	269.57
18	5	2009	0	0	0.00	21	53	7.08874	-13	37	41.7500	4.940675869	-2.35	11.51	268.70
19	5	2009	0	0	0.00	21	53	27.13387	-13	36	12.0159	4.924903803	-2.36	11.51	267.82
20	5	2009	0	0	0.00	21	53	46.52493	-13	34	45.6934	4.909141078	-2.36	11.50	266.94
21	5	2009	0	0	0.00	21	54	5.25594	-13	33	22.8249	4.893391530	-2.37	11.49	266.05
22	5	2009	0	0	0.00	21	54	23.32102	-13	32	3.4514	4.877659106	-2.38	11.48	265.17

23	5	2009	0	0	0.00	21	54	40.71446	-13	30	47.6126	4.861947868	-2.39	11.47	264.28
24	5	2009	0	0	0.00	21	54	57.43083	-13	29	35.3458	4.846261985	-2.39	11.45	263.39
25	5	2009	0	0	0.00	21	55	13.46505	-13	28	26.6854	4.830605715	-2.40	11.43	262.50
26	5	2009	0	0	0.00	21	55	28.81247	-13	27	21.6624	4.814983366	-2.41	11.41	261.60
27	5	2009	0	0	0.00	21	55	43.46893	-13	26	20.3046	4.799399253	-2.41	11.38	260.70
28	5	2009	0	0	0.00	21	55	57.43068	-13	25	22.6366	4.783857648	-2.42	11.35	259.80
29	5	2009	0	0	0.00	21	56	10.69438	-13	24	28.6802	4.768362750	-2.43	11.32	258.90
30	5	2009	0	0	0.00	21	56	23.25696	-13	23	38.4554	4.752918657	-2.44	11.29	257.99
31	5	2009	0	0	0.00	21	56	35.11552	-13	22	51.9809	4.737529375	-2.44	11.25	257.08
1	6	2009	0	0	0.00	21	56	46.26729	-13	22	9.2748	4.722198819	-2.45	11.21	256.17
2	6	2009	0	0	0.00	21	56	56.70950	-13	21	30.3547	4.706930838	-2.46	11.16	255.25
3	6	2009	0	0	0.00	21	57	6.43943	-13	20	55.2380	4.691729231	-2.47	11.12	254.34
4	6	2009	0	0	0.00	21	57	15.45432	-13	20	23.9422	4.676597768	-2.47	11.06	253.42
5	6	2009	0	0	0.00	21	57	23.75140	-13	19	56.4845	4.661540204	-2.48	11.01	252.49
6	6	2009	0	0	0.00	21	57	31.32791	-13	19	32.8821	4.646560300	-2.49	10.95	251.57
7	6	2009	0	0	0.00	21	57	38.18106	-13	19	13.1518	4.631661830	-2.50	10.89	250.64
8	6	2009	0	0	0.00	21	57	44.30810	-13	18	57.3101	4.616848597	-2.50	10.83	249.71
9	6	2009	0	0	0.00	21	57	49.70632	-13	18	45.3728	4.602124444	-2.51	10.77	248.77
10	6	2009	0	0	0.00	21	57	54.37307	-13	18	37.3550	4.587493256	-2.52	10.70	247.84
11	6	2009	0	0	0.00	21	57	58.30578	-13	18	33.2708	4.572958971	-2.53	10.62	246.90
12	6	2009	0	0	0.00	21	58	1.50203	-13	18	33.1331	4.558525583	-2.53	10.55	245.95
13	6	2009	0	0	0.00	21	58	3.95954	-13	18	36.9536	4.544197145	-2.54	10.47	245.01
14	6	2009	0	0	0.00	21	58	5.67621	-13	18	44.7422	4.529977769	-2.55	10.39	244.06
15	6	2009	0	0	0.00	21	58	6.65013	-13	18	56.5071	4.515871633	-2.55	10.30	243.11
16	6	2009	0	0	0.00	21	58	6.87964	-13	19	12.2547	4.501882980	-2.56	10.21	242.15
17	6	2009	0	0	0.00	21	58	6.36332	-13	19	31.9891	4.488016126	-2.57	10.12	241.19
18	6	2009	0	0	0.00	21	58	5.10009	-13	19	55.7119	4.474275465	-2.58	10.03	240.23
19	6	2009	0	0	0.00	21	58	3.08921	-13	20	23.4220	4.460665472	-2.58	9.93	239.26
20	6	2009	0	0	0.00	21	58	0.33040	-13	20	55.1147	4.447190706	-2.59	9.83	238.30
21	6	2009	0	0	0.00	21	57	56.82393	-13	21	30.7813	4.433855800	-2.60	9.72	237.33
22	6	2009	0	0	0.00	21	57	52.57071	-13	22	10.4083	4.420665435	-2.61	9.62	236.35
23	6	2009	0	0	0.00	21	57	47.57241	-13	22	53.9771	4.407624304	-2.61	9.51	235.37
24	6	2009	0	0	0.00	21	57	41.83145	-13	23	41.4641	4.394737057	-2.62	9.39	234.39
25	6	2009	0	0	0.00	21	57	35.35101	-13	24	32.8404	4.382008249	-2.63	9.27	233.41
26	6	2009	0	0	0.00	21	57	28.13493	-13	25	28.0735	4.369442303	-2.63	9.15	232.42
27	6	2009	0	0	0.00	21	57	20.18752	-13	26	27.1277	4.357043486	-2.64	9.03	231.43
28	6	2009	0	0	0.00	21	57	11.51352	-13	27	29.9649	4.344815917	-2.65	8.90	230.44
29	6	2009	0	0	0.00	21	57	2.11792	-13	28	36.5459	4.332763588	-2.65	8.77	229.45
30	6	2009	0	0	0.00	21	56	52.00595	-13	29	46.8301	4.320890384	-2.66	8.64	228.45
1	7	2009	0	0	0.00	21	56	41.18303	-13	31	0.7758	4.309200114	-2.67	8.50	227.45
2	7	2009	0	0	0.00	21	56	29.65479	-13	32	18.3402	4.297696527	-2.67	8.36	226.44
3	7	2009	0	0	0.00	21	56	17.42709	-13	33	39.4793	4.286383333	-2.68	8.22	225.43
4	7	2009	0	0	0.00	21	56	4.50599	-13	35	4.1478	4.275264207	-2.69	8.08	224.42
5	7	2009	0	0	0.00	21	55	50.89783	-13	36	32.2988	4.264342806	-2.69	7.93	223.41
6	7	2009	0	0	0.00	21	55	36.60923	-13	38	3.8838	4.253622768	-2.70	7.78	222.40
7	7	2009	0	0	0.00	21	55	21.64710	-13	39	38.8525	4.243107725	-2.71	7.62	221.38
8	7	2009	0	0	0.00	21	55	6.01866	-13	41	17.1526	4.232801300	-2.71	7.47	220.36
9	7	2009	0	0	0.00	21	54	49.73150	-13	42	58.7297	4.222707117	-2.72	7.31	219.33
10	7	2009	0	0	0.00	21	54	32.79357	-13	44	43.5274	4.212828803	-2.72	7.14	218.30
11	7	2009	0	0	0.00	21	54	15.21322	-13	46	31.4865	4.203169987	-2.73	6.98	217.27
12	7	2009	0	0	0.00	21	53	56.99923	-13	48	22.5455	4.193734303	-2.74	6.81	216.24
13	7	2009	0	0	0.00	21	53	38.16084	-13	50	16.6401	4.184525391	-2.74	6.64	215.21
14	7	2009	0	0	0.00	21	53	18.70778	-13	52	13.7029	4.175546898	-2.75	6.47	214.17
15	7	2009	0	0	0.00	21	52	58.65030	-13	54	13.6636	4.166802476	-2.75	6.29	213.13
16	7	2009	0	0	0.00	21	52	37.99924	-13	56	16.4482	4.158295782	-2.76	6.11	212.08
17	7	2009	0	0	0.00	21	52	16.76603	-13	58	21.9794	4.150030481	-2.76	5.93	211.04
18	7	2009	0	0	0.00	21	51	54.96282	-14	0	30.1752	4.142010234	-2.77	5.75	209.99
19	7	2009	0	0	0.00	21	51	32.60254	-14	2	40.9496	4.134238683	-2.77	5.57	208.94
20	7	2009	0	0	0.00	21	51	9.69897	-14	4	54.2111	4.126719430	-2.78	5.38	207.88
21	7	2009	0	0	0.00	21	50	46.26679	-14	7	9.8632	4.119455987	-2.78	5.19	206.83
22	7	2009	0	0	0.00	21	50	22.32164	-14	9	27.8045	4.112451732	-2.79	5.00	205.77
23	7	2009	0	0	0.00	21	49	57.87997	-14	11	47.9289	4.105709853	-2.79	4.80	204.71
24	7	2009	0	0	0.00	21	49	32.95898	-14	14	10.1274	4.099233311	-2.80	4.61	203.65
25	7	2009	0	0	0.00	21	49	7.57638	-14	16	34.2885	4.093024823	-2.80	4.41	202.58
26	7	2009	0	0	0.00	21	48	41.75027	-14	19	0.3004	4.087086876	-2.81	4.21	201.52
27	7	2009	0	0	0.00	21	48	15.49897	-14	21	28.0506	4.081421752	-2.81	4.01	200.45
28	7	2009	0	0	0.00	21	47	48.84094	-14	23	57.4274	4.076031560	-2.82	3.80	199.38
29	7	2009	0	0	0.00	21	47	21.79479	-14	26	28.3193	4.070918270	-2.82	3.60	198.31
30	7	2009	0	0	0.00	21	46	54.37928	-14	29	0.6153	4.066083733	-2.82	3.39	197.24
31	7	2009	0	0	0.00	21	46	26.61328	-14	31	34.2044	4.061529698	-2.83	3.19	196.16
1	8	2009	0	0	0.00	21	45	58.51584	-14	34	8.9760	4.057257821	-2.83	2.98	195.09
2	8	2009	0	0	0.00	21	45	30.10619	-14	36	44.8193	4.053269673	-2.83	2.77	194.01
3	8	2009	0	0	0.00	21	45	1.40374	-14	39	21.6235	4.049566741	-2.84	2.56	192.94
4	8	2009	0	0	0.00	21	44	32.42808	-14	41	59.2779	4.046150434	-2.84	2.34	191.86
5	8	2009	0	0	0.00	21	44	3.19897	-14	44	37.6715	4.043022085	-2.84	2.13	190.78
6	8	2009	0	0	0.00	21	43	33.73640	-14	47	16.6934	4.040182958	-2.84	1.92	189.70
7	8	2009	0	0	0.00	21	43	4.06050	-14	49	56.2326	4.037634247	-2.85	1.70	188.63
8	8	2009	0	0	0.00	21	42	34.19165	-14	52	36.1776	4.035377086	-2.85	1.49	187.55
9	8	2009	0	0	0.00	21	42	4.15043	-14	55	16.4169	4.033412545	-2.85	1.27	186.48

10	8	2009	0	0	0.00	21	41	33.95764	-14	57	56.8385	4.031741635	-2.85	1.06	185.41
11	8	2009	0	0	0.00	21	41	3.63436	-15	0	37.3297	4.030365308	-2.86	0.85	184.34
12	8	2009	0	0	0.00	21	40	33.20192	-15	3	17.7774	4.029284453	-2.86	0.64	183.30
13	8	2009	0	0	0.00	21	40	2.68199	-15	5	58.0673	4.028499890	-2.86	0.44	182.30
14	8	2009	0	0	0.00	21	39	32.09654	-15	8	38.0844	4.028012371	-2.86	0.27	181.43
15	8	2009	0	0	0.00	21	39	1.46794	-15	11	17.7122	4.027822558	-2.86	0.22	181.09
16	8	2009	0	0	0.00	21	38	30.81895	-15	13	56.8329	4.027931012	-2.86	0.35	178.35
17	8	2009	0	0	0.00	21	38	0.17278	-15	16	35.3272	4.028338162	-2.86	0.54	177.42
18	8	2009	0	0	0.00	21	37	29.55306	-15	19	13.0743	4.029044274	-2.86	0.75	176.40
19	8	2009	0	0	0.00	21	36	58.98383	-15	21	49.9525	4.030049400	-2.86	0.96	175.35
20	8	2009	0	0	0.00	21	36	28.48937	-15	24	25.8399	4.031353349	-2.86	1.17	174.28
21	8	2009	0	0	0.00	21	35	58.09409	-15	27	0.6156	4.032955652	-2.85	1.39	173.21
22	8	2009	0	0	0.00	21	35	27.82232	-15	29	34.1607	4.034855565	-2.85	1.60	172.12
23	8	2009	0	0	0.00	21	34	57.69809	-15	32	6.3597	4.037052081	-2.85	1.82	171.04
24	8	2009	0	0	0.00	21	34	27.74504	-15	34	37.1008	4.039543972	-2.85	2.03	169.96
25	8	2009	0	0	0.00	21	33	57.98632	-15	37	6.2765	4.042329824	-2.84	2.25	168.87
26	8	2009	0	0	0.00	21	33	28.44455	-15	39	33.7835	4.045408075	-2.84	2.46	167.79
27	8	2009	0	0	0.00	21	32	59.14189	-15	41	59.5224	4.048777046	-2.84	2.67	166.70
28	8	2009	0	0	0.00	21	32	30.10000	-15	44	23.3974	4.052434957	-2.84	2.88	165.62
29	8	2009	0	0	0.00	21	32	1.34010	-15	46	45.3162	4.056379937	-2.83	3.09	164.53
30	8	2009	0	0	0.00	21	31	32.88298	-15	49	5.1896	4.060610034	-2.83	3.30	163.45
31	8	2009	0	0	0.00	21	31	4.74901	-15	51	22.9316	4.065123218	-2.83	3.51	162.36
1	9	2009	0	0	0.00	21	30	36.95814	-15	53	38.4591	4.069917387	-2.82	3.71	161.28
2	9	2009	0	0	0.00	21	30	9.52988	-15	55	51.6918	4.074990372	-2.82	3.92	160.20
3	9	2009	0	0	0.00	21	29	42.48336	-15	58	2.5524	4.080339941	-2.82	4.12	159.12
4	9	2009	0	0	0.00	21	29	15.83727	-16	0	10.9661	4.085963813	-2.81	4.32	158.04
5	9	2009	0	0	0.00	21	28	49.60991	-16	2	16.8607	4.091859658	-2.81	4.52	156.96
6	9	2009	0	0	0.00	21	28	23.81922	-16	4	20.1662	4.098025109	-2.80	4.72	155.88
7	9	2009	0	0	0.00	21	27	58.48278	-16	6	20.8145	4.104457761	-2.80	4.91	154.81
8	9	2009	0	0	0.00	21	27	33.61788	-16	8	18.7394	4.111155176	-2.80	5.11	153.74
9	9	2009	0	0	0.00	21	27	9.24153	-16	10	13.8761	4.118114875	-2.79	5.30	152.66
10	9	2009	0	0	0.00	21	26	45.37054	-16	12	6.1608	4.125334332	-2.79	5.49	151.59
11	9	2009	0	0	0.00	21	26	22.02149	-16	13	55.5308	4.132810966	-2.78	5.67	150.52
12	9	2009	0	0	0.00	21	25	59.21080	-16	15	41.9242	4.140542117	-2.78	5.86	149.45
13	9	2009	0	0	0.00	21	25	36.95475	-16	17	25.2796	4.148525036	-2.77	6.04	148.39
14	9	2009	0	0	0.00	21	25	15.26945	-16	19	5.5367	4.156756850	-2.77	6.22	147.32
15	9	2009	0	0	0.00	21	24	54.17080	-16	20	42.6359	4.165234542	-2.76	6.40	146.26
16	9	2009	0	0	0.00	21	24	33.67448	-16	22	16.5189	4.173954920	-2.76	6.57	145.20
17	9	2009	0	0	0.00	21	24	13.79579	-16	23	47.1295	4.182914595	-2.75	6.74	144.14
18	9	2009	0	0	0.00	21	23	54.54956	-16	25	14.4143	4.192109971	-2.75	6.91	143.09
19	9	2009	0	0	0.00	21	23	35.94995	-16	26	38.3233	4.201537252	-2.74	7.08	142.03
20	9	2009	0	0	0.00	21	23	18.01041	-16	27	58.8108	4.211192464	-2.73	7.24	140.98
21	9	2009	0	0	0.00	21	23	0.74348	-16	29	15.8356	4.221071495	-2.73	7.40	139.93
22	9	2009	0	0	0.00	21	22	44.16088	-16	30	29.3612	4.231170131	-2.72	7.56	138.89
23	9	2009	0	0	0.00	21	22	28.27342	-16	31	39.3554	4.241484099	-2.72	7.72	137.84
24	9	2009	0	0	0.00	21	22	13.09111	-16	32	45.7897	4.252009090	-2.71	7.87	136.80
25	9	2009	0	0	0.00	21	21	58.62318	-16	33	48.6395	4.262740780	-2.70	8.02	135.76
26	9	2009	0	0	0.00	21	21	44.87817	-16	34	47.8830	4.273674841	-2.70	8.16	134.72
27	9	2009	0	0	0.00	21	21	31.86394	-16	35	43.5013	4.284806948	-2.69	8.31	133.69
28	9	2009	0	0	0.00	21	21	19.58774	-16	36	35.4780	4.296132780	-2.69	8.45	132.66
29	9	2009	0	0	0.00	21	21	8.05620	-16	37	23.7991	4.307648025	-2.68	8.58	131.63
30	9	2009	0	0	0.00	21	20	57.27541	-16	38	8.4527	4.319348384	-2.67	8.72	130.60
1	10	2009	0	0	0.00	21	20	47.25087	-16	38	49.4287	4.331229579	-2.67	8.85	129.58
2	10	2009	0	0	0.00	21	20	37.98756	-16	39	26.7190	4.343287357	-2.66	8.97	128.56
3	10	2009	0	0	0.00	21	20	29.49000	-16	40	0.3170	4.355517500	-2.65	9.10	127.54
4	10	2009	0	0	0.00	21	20	21.76223	-16	40	30.2172	4.367915833	-2.65	9.22	126.52
5	10	2009	0	0	0.00	21	20	14.80794	-16	40	56.4150	4.380478222	-2.64	9.34	125.51
6	10	2009	0	0	0.00	21	20	8.63048	-16	41	18.9065	4.393200579	-2.63	9.45	124.50
7	10	2009	0	0	0.00	21	20	3.23295	-16	41	37.6876	4.406078849	-2.63	9.56	123.49
8	10	2009	0	0	0.00	21	19	58.61825	-16	41	52.7542	4.419108999	-2.62	9.67	122.49
9	10	2009	0	0	0.00	21	19	54.78911	-16	42	4.1019	4.432286992	-2.61	9.77	121.48
10	10	2009	0	0	0.00	21	19	51.74815	-16	42	11.7258	4.445608770	-2.61	9.88	120.48
11	10	2009	0	0	0.00	21	19	49.49781	-16	42	15.6207	4.459070226	-2.60	9.97	119.49
12	10	2009	0	0	0.00	21	19	48.04039	-16	42	15.7812	4.472667178	-2.59	10.07	118.49
13	10	2009	0	0	0.00	21	19	47.37796	-16	42	12.2024	4.486395353	-2.58	10.16	117.50
14	10	2009	0	0	0.00	21	19	47.51232	-16	42	4.8798	4.500250366	-2.58	10.25	116.51
15	10	2009	0	0	0.00	21	19	48.44491	-16	41	53.8102	4.514227718	-2.57	10.33	115.53
16	10	2009	0	0	0.00	21	19	50.17672	-16	41	38.9921	4.528322790	-2.56	10.41	114.54
17	10	2009	0	0	0.00	21	19	52.70821	-16	41	20.4260	4.542530865	-2.56	10.49	113.56
18	10	2009	0	0	0.00	21	19	56.03924	-16	40	58.1152	4.556847143	-2.55	10.57	112.58
19	10	2009	0	0	0.00	21	20	0.16903	-16	40	32.0655	4.571266778	-2.54	10.64	111.61
20	10	2009	0	0	0.00	21	20	5.09616	-16	40	2.2854	4.585784904	-2.54	10.70	110.64
21	10	2009	0	0	0.00	21	20	10.81861	-16	39	28.7860	4.600396676	-2.53	10.77	109.67
22	10	2009	0	0	0.00	21	20	17.33380	-16	38	51.5802	4.615097282	-2.52	10.83	108.70
23	10	2009	0	0	0.00	21	20	24.63864	-16	38	10.6828	4.629881968	-2.51	10.89	107.74
24	10	2009	0	0	0.00	21	20	32.72962	-16	37	26.1101	4.644746042	-2.51	10.94	106.77
25	10	2009	0	0	0.00	21	20	41.60284	-16	36	37.8792	4.659684879	-2.50	10.99	105.82
26	10	2009	0	0	0.00	21	20	51.25404	-16	35	46.0084	4.674693920	-2.49	11.04	104.86
27	10	2009	0	0	0.00	21	21	1.67867	-16	34	50.5164	4.689768678	-2.49	11.09	103.91

28	10	2009	0	0	0.00	21	21	12.87189	-16	33	51.4227	4.704904733	-2.48	11.13	102.96
29	10	2009	0	0	0.00	21	21	24.82860	-16	32	48.7473	4.720097738	-2.47	11.17	102.01
30	10	2009	0	0	0.00	21	21	37.54346	-16	31	42.5104	4.735343425	-2.46	11.20	101.07
31	10	2009	0	0	0.00	21	21	51.01093	-16	30	32.7324	4.750637613	-2.46	11.23	100.12
1	11	2009	0	0	0.00	21	22	5.22533	-16	29	19.4338	4.765976207	-2.45	11.26	99.19
2	11	2009	0	0	0.00	21	22	20.18087	-16	28	2.6344	4.781355210	-2.44	11.29	98.25
3	11	2009	0	0	0.00	21	22	35.87172	-16	26	42.3535	4.796770711	-2.44	11.31	97.31
4	11	2009	0	0	0.00	21	22	52.29211	-16	25	18.6091	4.812218878	-2.43	11.33	96.38
5	11	2009	0	0	0.00	21	23	9.43634	-16	23	51.4180	4.827695937	-2.42	11.35	95.45
6	11	2009	0	0	0.00	21	23	27.29886	-16	22	20.7955	4.843198138	-2.42	11.36	94.53
7	11	2009	0	0	0.00	21	23	45.87425	-16	20	46.7554	4.858721727	-2.41	11.37	93.60
8	11	2009	0	0	0.00	21	24	5.15717	-16	19	9.3106	4.874262914	-2.40	11.38	92.68
9	11	2009	0	0	0.00	21	24	25.14234	-16	17	28.4732	4.889817845	-2.39	11.38	91.76
10	11	2009	0	0	0.00	21	24	45.82445	-16	15	44.2554	4.905382595	-2.39	11.39	90.85
11	11	2009	0	0	0.00	21	25	7.19809	-16	13	56.6693	4.920953157	-2.38	11.38	89.93
12	11	2009	0	0	0.00	21	25	29.25765	-16	12	5.7282	4.936525449	-2.37	11.38	89.02
13	11	2009	0	0	0.00	21	25	51.99732	-16	10	11.4465	4.952095327	-2.37	11.37	88.11
14	11	2009	0	0	0.00	21	26	15.41097	-16	8	13.8398	4.967658599	-2.36	11.36	87.20
15	11	2009	0	0	0.00	21	26	39.49217	-16	6	12.9256	4.983211050	-2.35	11.35	86.30
16	11	2009	0	0	0.00	21	27	4.23417	-16	4	8.7229	4.998748464	-2.35	11.33	85.40
17	11	2009	0	0	0.00	21	27	29.62989	-16	2	1.2526	5.014266651	-2.34	11.32	84.50
18	11	2009	0	0	0.00	21	27	55.67193	-15	59	50.5367	5.029761465	-2.33	11.30	83.60
19	11	2009	0	0	0.00	21	28	22.35266	-15	57	36.5988	5.045228827	-2.33	11.27	82.70
20	11	2009	0	0	0.00	21	28	49.66422	-15	55	19.4632	5.060664736	-2.32	11.25	81.81
21	11	2009	0	0	0.00	21	29	17.59856	-15	52	59.1551	5.076065274	-2.32	11.22	80.92
22	11	2009	0	0	0.00	21	29	46.14753	-15	50	35.7001	5.091426614	-2.31	11.18	80.03
23	11	2009	0	0	0.00	21	30	15.30285	-15	48	9.1243	5.106745016	-2.30	11.15	79.14
24	11	2009	0	0	0.00	21	30	45.05618	-15	45	39.4539	5.122016828	-2.30	11.11	78.26
25	11	2009	0	0	0.00	21	31	15.39911	-15	43	6.7152	5.137238488	-2.29	11.07	77.38
26	11	2009	0	0	0.00	21	31	46.32323	-15	40	30.9345	5.152406521	-2.28	11.03	76.50
27	11	2009	0	0	0.00	21	32	17.82007	-15	37	52.1383	5.167517546	-2.28	10.99	75.62
28	11	2009	0	0	0.00	21	32	49.88119	-15	35	10.3528	5.182568280	-2.27	10.94	74.74
29	11	2009	0	0	0.00	21	33	22.49817	-15	32	25.6036	5.197555542	-2.27	10.89	73.87
30	11	2009	0	0	0.00	21	33	55.66267	-15	29	37.9159	5.212476260	-2.26	10.84	73.00
1	12	2009	0	0	0.00	21	34	29.36649	-15	26	47.3141	5.227327463	-2.26	10.79	72.13
2	12	2009	0	0	0.00	21	35	3.60165	-15	23	53.8209	5.242106273	-2.25	10.73	71.26
3	12	2009	0	0	0.00	21	35	38.36041	-15	20	57.4577	5.256809882	-2.24	10.67	70.40
4	12	2009	0	0	0.00	21	36	13.63533	-15	17	58.2441	5.271435511	-2.24	10.61	69.53
5	12	2009	0	0	0.00	21	36	49.41924	-15	14	56.1981	5.285980378	-2.23	10.55	68.67
6	12	2009	0	0	0.00	21	37	25.70524	-15	11	51.3365	5.300441651	-2.23	10.48	67.81
7	12	2009	0	0	0.00	21	38	2.48656	-15	8	43.6758	5.314816427	-2.22	10.42	66.95
8	12	2009	0	0	0.00	21	38	39.75650	-15	5	33.2323	5.329101723	-2.22	10.35	66.10
9	12	2009	0	0	0.00	21	39	17.50833	-15	2	20.0231	5.343294479	-2.21	10.27	65.24
10	12	2009	0	0	0.00	21	39	55.73522	-14	59	4.0663	5.357391572	-2.21	10.20	64.39
11	12	2009	0	0	0.00	21	40	34.43022	-14	55	45.3813	5.371389842	-2.20	10.13	63.54
12	12	2009	0	0	0.00	21	41	13.58617	-14	52	23.9889	5.385286110	-2.20	10.05	62.69
13	12	2009	0	0	0.00	21	41	53.19579	-14	48	59.9115	5.399077202	-2.19	9.97	61.84
14	12	2009	0	0	0.00	21	42	33.25157	-14	45	33.1728	5.412759968	-2.19	9.89	61.00
15	12	2009	0	0	0.00	21	43	13.74589	-14	42	3.7978	5.426331298	-2.18	9.80	60.15
16	12	2009	0	0	0.00	21	43	54.67094	-14	38	31.8127	5.439788141	-2.18	9.72	59.31
17	12	2009	0	0	0.00	21	44	36.01884	-14	34	57.2448	5.453127515	-2.17	9.63	58.47
18	12	2009	0	0	0.00	21	45	17.78159	-14	31	20.1222	5.466346515	-2.17	9.54	57.63
19	12	2009	0	0	0.00	21	45	59.95114	-14	27	40.4736	5.479442327	-2.16	9.45	56.79
20	12	2009	0	0	0.00	21	46	42.51939	-14	23	58.3283	5.492412224	-2.16	9.36	55.96
21	12	2009	0	0	0.00	21	47	25.47826	-14	20	13.7156	5.505253572	-2.15	9.26	55.12
22	12	2009	0	0	0.00	21	48	8.81967	-14	16	26.6654	5.517963827	-2.15	9.17	54.29
23	12	2009	0	0	0.00	21	48	52.53556	-14	12	37.2075	5.530540537	-2.14	9.07	53.46
24	12	2009	0	0	0.00	21	49	36.61793	-14	8	45.3716	5.542981342	-2.14	8.97	52.63
25	12	2009	0	0	0.00	21	50	21.05884	-14	4	51.1876	5.555283976	-2.14	8.87	51.80
26	12	2009	0	0	0.00	21	51	5.85041	-14	0	54.6850	5.567446270	-2.13	8.76	50.98
27	12	2009	0	0	0.00	21	51	50.98485	-13	56	55.8931	5.579466155	-2.13	8.66	50.15
28	12	2009	0	0	0.00	21	52	36.45454	-13	52	54.8406	5.591341667	-2.12	8.55	49.33
29	12	2009	0	0	0.00	21	53	22.25199	-13	48	51.5551	5.603070946	-2.12	8.45	48.51
30	12	2009	0	0	0.00	21	54	8.36998	-13	44	46.0634	5.614652226	-2.12	8.34	47.69
31	12	2009	0	0	0.00	21	54	54.80155	-13	40	38.3905	5.626083811	-2.11	8.23	46.87
1	1	2010	0	0	0.00	21	55	41.54009	-13	36	28.5597	5.637364045	-2.11	8.12	46.06
2	1	2010	0	0	0.00	21	56	28.57930	-13	32	16.5929	5.648491261	-2.10	8.00	45.24
3	1	2010	0	0	0.00	21	57	15.91319	-13	28	2.5105	5.659463739	-2.10	7.89	44.43
4	1	2010	0	0	0.00	21	58	3.53592	-13	23	46.3328	5.670279673	-2.10	7.77	43.61
5	1	2010	0	0	0.00	21	58	51.44178	-13	19	28.0801	5.680937164	-2.09	7.65	42.80
6	1	2010	0	0	0.00	21	59	39.62501	-13	15	7.7736	5.691434226	-2.09	7.54	41.99
7	1	2010	0	0	0.00	22	0	28.07975	-13	10	45.4361	5.701768813	-2.09	7.42	41.18
8	1	2010	0	0	0.00	22	1	16.80003	-13	6	21.0917	5.711938849	-2.08	7.30	40.37
9	1	2010	0	0	0.00	22	2	5.77972	-13	1	54.7662	5.721942254	-2.08	7.17	39.57
10	1	2010	0	0	0.00	22	2	55.01255	-12	57	26.4866	5.731776970	-2.08	7.05	38.76
11	1	2010	0	0	0.00	22	3	44.49214	-12	52	56.2816	5.741440976	-2.07	6.93	37.96
12	1	2010	0	0	0.00	22	4	34.21198	-12	48	24.1807	5.750932303	-2.07	6.80	37.15
13	1	2010	0	0	0.00	22	5	24.16551	-12	43	50.2147	5.760249043	-2.07	6.67	36.35
14	1	2010	0	0	0.00	22	6	14.34606	-12	39	14.4151	5.769389356	-2.07	6.54	35.55

15	1	2010	0	0	0.00	22	7	4.74693	-12	34	36.8143	5.778351481	-2.06	6.42	34.75
16	1	2010	0	0	0.00	22	7	55.36139	-12	29	57.4452	5.787133737	-2.06	6.29	33.95
17	1	2010	0	0	0.00	22	8	46.18269	-12	25	16.3412	5.795734530	-2.06	6.15	33.16
18	1	2010	0	0	0.00	22	9	37.20409	-12	20	33.5360	5.804152352	-2.06	6.02	32.36
19	1	2010	0	0	0.00	22	10	28.41887	-12	15	49.0635	5.812385788	-2.05	5.89	31.56
20	1	2010	0	0	0.00	22	11	19.82034	-12	11	2.9579	5.820433513	-2.05	5.76	30.77
21	1	2010	0	0	0.00	22	12	11.40188	-12	6	15.2530	5.828294292	-2.05	5.62	29.98
22	1	2010	0	0	0.00	22	13	3.15694	-12	1	25.9828	5.835966983	-2.05	5.49	29.19
23	1	2010	0	0	0.00	22	13	55.07904	-11	56	35.1810	5.843450538	-2.05	5.35	28.40
24	1	2010	0	0	0.00	22	14	47.16181	-11	51	42.8807	5.850744002	-2.04	5.21	27.61
25	1	2010	0	0	0.00	22	15	39.39902	-11	46	49.1147	5.857846518	-2.04	5.07	26.82
26	1	2010	0	0	0.00	22	16	31.78459	-11	41	53.9147	5.864757325	-2.04	4.93	26.03
27	1	2010	0	0	0.00	22	17	24.31266	-11	36	57.3115	5.871475746	-2.04	4.80	25.25
28	1	2010	0	0	0.00	22	18	16.97763	-11	31	59.3342	5.878001174	-2.04	4.66	24.46
29	1	2010	0	0	0.00	22	19	9.77421	-11	27	0.0106	5.884333040	-2.04	4.51	23.68
30	1	2010	0	0	0.00	22	20	2.69741	-11	21	59.3666	5.890470767	-2.03	4.37	22.89
31	1	2010	0	0	0.00	22	20	55.74253	-11	16	57.4269	5.896413726	-2.03	4.23	22.11
1	2	2010	0	0	0.00	22	21	48.90505	-11	11	54.2158	5.902161198	-2.03	4.09	21.33
2	2	2010	0	0	0.00	22	22	42.18056	-11	6	49.7577	5.907712358	-2.03	3.94	20.55
3	2	2010	0	0	0.00	22	23	35.56459	-11	1	44.0779	5.913066284	-2.03	3.80	19.77
4	2	2010	0	0	0.00	22	24	29.05260	-10	56	37.2032	5.918221984	-2.03	3.66	18.99
5	2	2010	0	0	0.00	22	25	22.63987	-10	51	29.1622	5.923178436	-2.03	3.51	18.22
6	2	2010	0	0	0.00	22	26	16.32153	-10	46	19.9850	5.927934616	-2.03	3.37	17.44
7	2	2010	0	0	0.00	22	27	10.09256	-10	41	9.7032	5.932489528	-2.03	3.22	16.66
8	2	2010	0	0	0.00	22	28	3.94779	-10	35	58.3497	5.936842222	-2.02	3.07	15.89
9	2	2010	0	0	0.00	22	28	57.88198	-10	30	45.9585	5.940991803	-2.02	2.93	15.11
10	2	2010	0	0	0.00	22	29	51.88979	-10	25	32.5642	5.944937442	-2.02	2.78	14.34
11	2	2010	0	0	0.00	22	30	45.96582	-10	20	18.2026	5.948678374	-2.02	2.63	13.57
12	2	2010	0	0	0.00	22	31	40.10461	-10	15	2.9098	5.952213910	-2.02	2.48	12.80
13	2	2010	0	0	0.00	22	32	34.30068	-10	9	46.7226	5.955543434	-2.02	2.33	12.03
14	2	2010	0	0	0.00	22	33	28.54851	-10	4	29.6780	5.958666411	-2.02	2.19	11.26
15	2	2010	0	0	0.00	22	34	22.84258	-09	59	11.8135	5.961582387	-2.02	2.04	10.49
16	2	2010	0	0	0.00	22	35	17.17735	-09	53	53.1668	5.964290997	-2.02	1.89	9.72
17	2	2010	0	0	0.00	22	36	11.54732	-09	48	33.7755	5.966791963	-2.02	1.74	8.96
18	2	2010	0	0	0.00	22	37	5.94703	-09	43	13.6772	5.969085096	-2.02	1.59	8.19
19	2	2010	0	0	0.00	22	38	0.37105	-09	37	52.9094	5.971170299	-2.02	1.44	7.43
20	2	2010	0	0	0.00	22	38	54.81405	-09	32	31.5090	5.973047564	-2.02	1.29	6.67
21	2	2010	0	0	0.00	22	39	49.27078	-09	27	9.5125	5.974716971	-2.02	1.14	5.91
22	2	2010	0	0	0.00	22	40	43.73611	-09	21	46.9557	5.976178689	-2.02	0.99	5.15
23	2	2010	0	0	0.00	22	41	38.20506	-09	16	23.8733	5.977432968	-2.02	0.84	4.40
24	2	2010	0	0	0.00	22	42	32.67285	-09	11	0.2991	5.978480131	-2.02	0.70	3.66
25	2	2010	0	0	0.00	22	43	27.13490	-09	5	36.2654	5.979320554	-2.02	0.55	2.93
26	2	2010	0	0	0.00	22	44	21.58690	-09	0	11.8029	5.979954645	-2.02	0.41	2.22
27	2	2010	0	0	0.00	22	45	16.02482	-08	54	46.9409	5.980382799	-2.02	0.29	1.56
28	2	2010	0	0	0.00	22	46	10.44483	-08	49	21.7074	5.980605365	-2.02	0.20	1.05
1	3	2010	0	0	0.00	22	47	4.84333	-08	43	56.1298	5.980622603	-2.02	0.20	0.97
2	3	2010	0	0	0.00	22	47	59.21675	-08	38	30.2355	5.980434665	-2.02	0.30	358.60
3	3	2010	0	0	0.00	22	48	53.56154	-08	33	4.0529	5.980041602	-2.02	0.43	357.97
4	3	2010	0	0	0.00	22	49	47.87401	-08	27	37.6117	5.979443385	-2.02	0.57	357.27
5	3	2010	0	0	0.00	22	50	42.15027	-08	22	10.9434	5.978639943	-2.02	0.71	356.55
6	3	2010	0	0	0.00	22	51	36.38629	-08	16	44.0810	5.977631200	-2.02	0.86	355.81
7	3	2010	0	0	0.00	22	52	30.57782	-08	11	17.0594	5.976417105	-2.02	1.01	355.07
8	3	2010	0	0	0.00	22	53	24.72047	-08	5	49.9143	5.974997652	-2.02	1.16	354.32
9	3	2010	0	0	0.00	22	54	18.80973	-08	0	22.6827	5.973372894	-2.02	1.30	353.57
10	3	2010	0	0	0.00	22	55	12.84097	-07	54	55.4023	5.971542947	-2.02	1.45	352.82
11	3	2010	0	0	0.00	22	56	6.80951	-07	49	28.1115	5.969507991	-2.02	1.60	352.07
12	3	2010	0	0	0.00	22	57	0.71056	-07	44	0.8492	5.967268277	-2.02	1.75	351.31
13	3	2010	0	0	0.00	22	57	54.53932	-07	38	33.6548	5.964824125	-2.02	1.90	350.56
14	3	2010	0	0	0.00	22	58	48.29089	-07	33	6.5680	5.962175926	-2.02	2.05	349.80
15	3	2010	0	0	0.00	22	59	41.96036	-07	27	39.6290	5.959324151	-2.02	2.20	349.05
16	3	2010	0	0	0.00	23	0	35.54279	-07	22	12.8778	5.956269352	-2.02	2.35	348.29
17	3	2010	0	0	0.00	23	1	29.03321	-07	16	46.3548	5.953012166	-2.02	2.49	347.54
18	3	2010	0	0	0.00	23	2	22.42668	-07	11	20.1000	5.949553319	-2.03	2.64	346.78
19	3	2010	0	0	0.00	23	3	15.71826	-07	5	54.1534	5.945893628	-2.03	2.79	346.03
20	3	2010	0	0	0.00	23	4	8.90310	-07	0	28.5540	5.942033998	-2.03	2.94	345.27
21	3	2010	0	0	0.00	23	5	1.97640	-06	55	3.3407	5.937975420	-2.03	3.08	344.52
22	3	2010	0	0	0.00	23	5	54.93351	-06	49	38.5510	5.933718965	-2.03	3.23	343.76
23	3	2010	0	0	0.00	23	6	47.76988	-06	44	14.2216	5.929265771	-2.03	3.38	343.01
24	3	2010	0	0	0.00	23	7	40.48115	-06	38	50.3878	5.924617033	-2.03	3.52	342.25
25	3	2010	0	0	0.00	23	8	33.06317	-06	33	27.0837	5.919773982	-2.03	3.67	341.50
26	3	2010	0	0	0.00	23	9	25.51198	-06	28	4.3419	5.914737859	-2.03	3.81	340.75
27	3	2010	0	0	0.00	23	10	17.82384	-06	22	42.1936	5.909509888	-2.03	3.95	339.99
28	3	2010	0	0	0.00	23	11	9.99521	-06	17	20.6691	5.904091238	-2.04	4.10	339.24
29	3	2010	0	0	0.00	23	12	2.02267	-06	11	59.7980	5.898482998	-2.04	4.24	338.48
30	3	2010	0	0	0.00	23	12	53.90287	-06	6	39.6101	5.892686156	-2.04	4.38	337.73
31	3	2010	0	0	0.00	23	13	45.63242	-06	1	20.1360	5.886701602	-2.04	4.52	336.97
1	4	2010	0	0	0.00	23	14	37.20779	-05	56	1.4076	5.880530146	-2.04	4.66	336.22
2	4	2010	0	0	0.00	23	15	28.62527	-05	50	43.4583	5.874172548	-2.04	4.80	335.46
3	4	2010	0	0	0.00	23	16	19.88094	-05	45	26.3234	5.867629558	-2.05	4.94	334.71

4	4	2010	0	0	0.00	23	17	10.97067	-05	40	10.0396	5.860901942	-2.05	5.08	333.95
5	4	2010	0	0	0.00	23	18	1.89012	-05	34	54.6451	5.853990508	-2.05	5.22	333.19
6	4	2010	0	0	0.00	23	18	52.63482	-05	29	40.1788	5.846896120	-2.05	5.36	332.44
7	4	2010	0	0	0.00	23	19	43.20015	-05	24	26.6808	5.839619705	-2.05	5.49	331.68
8	4	2010	0	0	0.00	23	20	33.58138	-05	19	14.1916	5.832162254	-2.06	5.63	330.92
9	4	2010	0	0	0.00	23	21	23.77370	-05	14	2.7523	5.824524824	-2.06	5.76	330.17
10	4	2010	0	0	0.00	23	22	13.77219	-05	8	52.4045	5.816708540	-2.06	5.90	329.41
11	4	2010	0	0	0.00	23	23	3.57186	-05	3	43.1899	5.808714597	-2.06	6.03	328.65
12	4	2010	0	0	0.00	23	23	53.16766	-04	58	35.1508	5.800544263	-2.06	6.16	327.89
13	4	2010	0	0	0.00	23	24	42.55477	-04	53	28.3296	5.792198885	-2.07	6.29	327.13
14	4	2010	0	0	0.00	23	25	31.72710	-04	48	22.7686	5.783679896	-2.07	6.43	326.38
15	4	2010	0	0	0.00	23	26	20.68036	-04	43	18.5102	5.774988817	-2.07	6.55	325.62
16	4	2010	0	0	0.00	23	27	9.40907	-04	38	15.5963	5.766127266	-2.08	6.68	324.86
17	4	2010	0	0	0.00	23	27	57.90805	-04	33	14.0682	5.757096952	-2.08	6.81	324.10
18	4	2010	0	0	0.00	23	28	46.17224	-04	28	13.9663	5.747899671	-2.08	6.94	323.33
19	4	2010	0	0	0.00	23	29	34.19666	-04	23	15.3300	5.738537296	-2.08	7.06	322.57
20	4	2010	0	0	0.00	23	30	21.97651	-04	18	18.1971	5.729011761	-2.09	7.19	321.81
21	4	2010	0	0	0.00	23	31	9.50713	-04	13	22.6045	5.719325038	-2.09	7.31	321.05
22	4	2010	0	0	0.00	23	31	56.78406	-04	8	28.5873	5.709479116	-2.09	7.43	320.29
23	4	2010	0	0	0.00	23	32	43.80303	-04	3	36.1794	5.699475978	-2.10	7.55	319.52
24	4	2010	0	0	0.00	23	33	30.55993	-03	58	45.4137	5.689317567	-2.10	7.67	318.76
25	4	2010	0	0	0.00	23	34	17.05081	-03	53	56.3223	5.679005772	-2.10	7.79	317.99
26	4	2010	0	0	0.00	23	35	3.27176	-03	49	8.9370	5.668542399	-2.11	7.91	317.23
27	4	2010	0	0	0.00	23	35	49.21892	-03	44	23.2899	5.657929170	-2.11	8.02	316.46
28	4	2010	0	0	0.00	23	36	34.88834	-03	39	39.4140	5.647167719	-2.11	8.14	315.70
29	4	2010	0	0	0.00	23	37	20.27594	-03	34	57.3433	5.636259611	-2.12	8.25	314.93
30	4	2010	0	0	0.00	23	38	5.37745	-03	30	17.1137	5.625206367	-2.12	8.37	314.16
1	5	2010	0	0	0.00	23	38	50.18835	-03	25	38.7626	5.614009494	-2.13	8.48	313.39
2	5	2010	0	0	0.00	23	39	34.70390	-03	21	2.3288	5.602670515	-2.13	8.59	312.62
3	5	2010	0	0	0.00	23	40	18.91915	-03	16	27.8528	5.591190989	-2.13	8.69	311.85
4	5	2010	0	0	0.00	23	41	2.82896	-03	11	55.3758	5.579572532	-2.14	8.80	311.08
5	5	2010	0	0	0.00	23	41	46.42801	-03	7	24.9402	5.567816821	-2.14	8.91	310.31
6	5	2010	0	0	0.00	23	42	29.71086	-03	2	56.5888	5.555925598	-2.15	9.01	309.54
7	5	2010	0	0	0.00	23	43	12.67195	-02	58	30.3652	5.543900677	-2.15	9.11	308.76
8	5	2010	0	0	0.00	23	43	55.30559	-02	54	6.3131	5.531743937	-2.15	9.21	307.98
9	5	2010	0	0	0.00	23	44	37.60600	-02	49	44.4768	5.519457332	-2.16	9.31	307.21
10	5	2010	0	0	0.00	23	45	19.56731	-02	45	24.9009	5.507042887	-2.16	9.41	306.43
11	5	2010	0	0	0.00	23	46	1.18357	-02	41	7.6299	5.494502712	-2.17	9.51	305.65
12	5	2010	0	0	0.00	23	46	42.44872	-02	36	52.7088	5.481839002	-2.17	9.60	304.87
13	5	2010	0	0	0.00	23	47	23.35670	-02	32	40.1822	5.469054049	-2.18	9.70	304.09
14	5	2010	0	0	0.00	23	48	3.90140	-02	28	30.0941	5.456150246	-2.18	9.79	303.31
15	5	2010	0	0	0.00	23	48	44.07676	-02	24	22.4881	5.443130088	-2.19	9.88	302.52
16	5	2010	0	0	0.00	23	49	23.87680	-02	20	17.4063	5.429996166	-2.19	9.97	301.74
17	5	2010	0	0	0.00	23	50	3.29570	-02	16	14.8897	5.416751149	-2.20	10.05	300.95
18	5	2010	0	0	0.00	23	50	42.32780	-02	12	14.9776	5.403397766	-2.20	10.14	300.16
19	5	2010	0	0	0.00	23	51	20.96764	-02	8	17.7075	5.389938774	-2.21	10.22	299.37
20	5	2010	0	0	0.00	23	51	59.20999	-02	4	23.1154	5.376376927	-2.21	10.30	298.58
21	5	2010	0	0	0.00	23	52	37.04980	-02	0	31.2362	5.362714954	-2.22	10.38	297.79
22	5	2010	0	0	0.00	23	53	14.48217	-01	56	42.1037	5.348955531	-2.22	10.46	297.00
23	5	2010	0	0	0.00	23	53	51.50230	-01	52	55.7514	5.335101267	-2.23	10.54	296.20
24	5	2010	0	0	0.00	23	54	28.10542	-01	49	12.2128	5.321154696	-2.23	10.61	295.40
25	5	2010	0	0	0.00	23	55	4.28675	-01	45	31.5218	5.307118277	-2.24	10.68	294.61
26	5	2010	0	0	0.00	23	55	40.04138	-01	41	53.7133	5.292994401	-2.24	10.75	293.81
27	5	2010	0	0	0.00	23	56	15.36428	-01	38	18.8234	5.278785411	-2.25	10.82	293.01
28	5	2010	0	0	0.00	23	56	50.25022	-01	34	46.8898	5.264493618	-2.26	10.88	292.20
29	5	2010	0	0	0.00	23	57	24.69374	-01	31	17.9514	5.250121331	-2.26	10.95	291.40
30	5	2010	0	0	0.00	23	57	58.68917	-01	27	52.0488	5.235670878	-2.27	11.01	290.59
31	5	2010	0	0	0.00	23	58	32.23062	-01	24	29.2237	5.221144626	-2.27	11.07	289.79
1	6	2010	0	0	0.00	23	59	5.31201	-01	21	9.5188	5.206544999	-2.28	11.13	288.98
2	6	2010	0	0	0.00	23	59	37.92710	-01	17	52.9776	5.191874488	-2.28	11.18	288.16
3	6	2010	0	0	0.00	0	0	10.06952	-01	14	39.6443	5.177135651	-2.29	11.24	287.35
4	6	2010	0	0	0.00	0	0	41.73277	-01	11	29.5632	5.162331123	-2.30	11.29	286.53
5	6	2010	0	0	0.00	0	1	12.91025	-01	8	22.7791	5.147463613	-2.30	11.34	285.72
6	6	2010	0	0	0.00	0	1	43.59529	-01	5	19.3371	5.132535908	-2.31	11.38	284.90
7	6	2010	0	0	0.00	0	2	13.78112	-01	2	19.2821	5.117550876	-2.31	11.43	284.08
8	6	2010	0	0	0.00	0	2	43.46091	-00	59	22.6591	5.102511469	-2.32	11.47	283.25
9	6	2010	0	0	0.00	0	3	12.62779	-00	56	29.5130	5.087420735	-2.33	11.51	282.43
10	6	2010	0	0	0.00	0	3	41.27486	-00	53	39.8882	5.072281826	-2.33	11.55	281.60
11	6	2010	0	0	0.00	0	4	9.39523	-00	50	53.8284	5.057098001	-2.34	11.58	280.77
12	6	2010	0	0	0.00	0	4	36.98211	-00	48	11.3762	5.041872632	-2.35	11.61	279.94
13	6	2010	0	0	0.00	0	5	4.02884	-00	45	32.5724	5.026609196	-2.35	11.64	279.10
14	6	2010	0	0	0.00	0	5	30.52901	-00	42	57.4559	5.011311258	-2.36	11.67	278.26
15	6	2010	0	0	0.00	0	5	56.47647	-00	40	26.0632	4.995982440	-2.37	11.70	277.42
16	6	2010	0	0	0.00	0	6	21.86539	-00	37	58.4286	4.980626383	-2.37	11.72	276.58
17	6	2010	0	0	0.00	0	6	46.69026	-00	35	34.5845	4.965246710	-2.38	11.74	275.74
18	6	2010	0	0	0.00	0	7	10.94580	-00	33	14.5613	4.949846996	-2.39	11.75	274.89
19	6	2010	0	0	0.00	0	7	34.62696	-00	30	58.3890	4.934430747	-2.39	11.77	274.04
20	6	2010	0	0	0.00	0	7	57.72879	-00	28	46.0965	4.919001390	-2.40	11.78	273.19
21	6	2010	0	0	0.00	0	8	20.24638	-00	26	37.7135	4.903562280	-2.41	11.79	272.34

22	6	2010	0	0	0.00	0	8	42.17481	-00	24	33.2696	4.888116705	-2.41	11.80	271.48
23	6	2010	0	0	0.00	0	9	3.50910	-00	22	32.7954	4.872667906	-2.42	11.80	270.62
24	6	2010	0	0	0.00	0	9	24.24415	-00	20	36.3224	4.857219093	-2.43	11.80	269.76
25	6	2010	0	0	0.00	0	9	44.37473	-00	18	43.8831	4.841773463	-2.43	11.80	268.90
26	6	2010	0	0	0.00	0	10	3.89548	-00	16	55.5109	4.826334225	-2.44	11.80	268.03
27	6	2010	0	0	0.00	0	10	22.80090	-00	15	11.2401	4.810904613	-2.45	11.79	267.16
28	6	2010	0	0	0.00	0	10	41.08536	-00	13	31.1054	4.795487907	-2.46	11.78	266.29
29	6	2010	0	0	0.00	0	10	58.74315	-00	11	55.1422	4.780087442	-2.46	11.77	265.41
30	6	2010	0	0	0.00	0	11	15.76848	-00	10	23.3860	4.764706622	-2.47	11.75	264.54
1	7	2010	0	0	0.00	0	11	32.15550	-00	8	55.8721	4.749348920	-2.48	11.73	263.66
2	7	2010	0	0	0.00	0	11	47.89838	-00	7	32.6357	4.734017889	-2.48	11.71	262.77
3	7	2010	0	0	0.00	0	12	2.99127	-00	6	13.7114	4.718717155	-2.49	11.68	261.89
4	7	2010	0	0	0.00	0	12	17.42837	-00	4	59.1333	4.703450426	-2.50	11.66	261.00
5	7	2010	0	0	0.00	0	12	31.20394	-00	3	48.9347	4.688221493	-2.51	11.63	260.10
6	7	2010	0	0	0.00	0	12	44.31228	-00	2	43.1480	4.673034232	-2.51	11.59	259.21
7	7	2010	0	0	0.00	0	12	56.74780	-00	1	41.8044	4.657892611	-2.52	11.56	258.31
8	7	2010	0	0	0.00	0	13	8.50506	-00	0	44.9338	4.642800700	-2.53	11.52	257.41
9	7	2010	0	0	0.00	0	13	19.57877	+00	0	7.4357	4.627762675	-2.54	11.47	256.50
10	7	2010	0	0	0.00	0	13	29.96392	+00	0	55.2786	4.612782819	-2.54	11.43	255.59
11	7	2010	0	0	0.00	0	13	39.65585	+00	1	38.5718	4.597865517	-2.55	11.38	254.68
12	7	2010	0	0	0.00	0	13	48.65033	+00	2	17.2961	4.583015233	-2.56	11.33	253.77
13	7	2010	0	0	0.00	0	13	56.94366	+00	2	51.4359	4.568236474	-2.56	11.27	252.85
14	7	2010	0	0	0.00	0	14	4.53269	+00	3	20.9791	4.553533746	-2.57	11.21	251.93
15	7	2010	0	0	0.00	0	14	11.41483	+00	3	45.9173	4.538911507	-2.58	11.15	251.00
16	7	2010	0	0	0.00	0	14	17.58793	+00	4	6.2446	4.524374130	-2.59	11.08	250.07
17	7	2010	0	0	0.00	0	14	23.05024	+00	4	21.9570	4.509925885	-2.59	11.02	249.14
18	7	2010	0	0	0.00	0	14	27.80027	+00	4	33.0516	4.495570939	-2.60	10.94	248.21
19	7	2010	0	0	0.00	0	14	31.83669	+00	4	39.5261	4.481313366	-2.61	10.87	247.27
20	7	2010	0	0	0.00	0	14	35.15830	+00	4	41.3787	4.467157171	-2.62	10.79	246.33
21	7	2010	0	0	0.00	0	14	37.76399	+00	4	38.6075	4.453106308	-2.62	10.71	245.38
22	7	2010	0	0	0.00	0	14	39.65270	+00	4	31.2112	4.439164702	-2.63	10.62	244.44
23	7	2010	0	0	0.00	0	14	40.82346	+00	4	19.1885	4.425336266	-2.64	10.54	243.49
24	7	2010	0	0	0.00	0	14	41.27537	+00	4	2.5388	4.411624918	-2.65	10.45	242.53
25	7	2010	0	0	0.00	0	14	41.00761	+00	3	41.2622	4.398034592	-2.65	10.35	241.57
26	7	2010	0	0	0.00	0	14	40.01950	+00	3	15.3594	4.384569251	-2.66	10.25	240.61
27	7	2010	0	0	0.00	0	14	38.31049	+00	2	44.8328	4.371232895	-2.67	10.15	239.65
28	7	2010	0	0	0.00	0	14	35.88023	+00	2	9.6858	4.358029566	-2.67	10.05	238.68
29	7	2010	0	0	0.00	0	14	32.72855	+00	1	29.9236	4.344963355	-2.68	9.94	237.71
30	7	2010	0	0	0.00	0	14	28.85555	+00	0	45.5535	4.332038406	-2.69	9.83	236.73
31	7	2010	0	0	0.00	0	14	24.26160	-00	0	3.4151	4.319258910	-2.70	9.72	235.76
1	8	2010	0	0	0.00	0	14	18.94736	-00	0	56.9705	4.306629114	-2.70	9.60	234.77
2	8	2010	0	0	0.00	0	14	12.91384	-00	1	55.0984	4.294153316	-2.71	9.48	233.79
3	8	2010	0	0	0.00	0	14	6.16243	-00	2	57.7814	4.281835868	-2.72	9.35	232.80
4	8	2010	0	0	0.00	0	13	58.69490	-00	4	4.9993	4.269681181	-2.72	9.23	231.81
5	8	2010	0	0	0.00	0	13	50.51347	-00	5	16.7283	4.257693722	-2.73	9.10	230.81
6	8	2010	0	0	0.00	0	13	41.62086	-00	6	32.9408	4.245878022	-2.74	8.96	229.81
7	8	2010	0	0	0.00	0	13	32.02038	-00	7	53.6049	4.234238670	-2.74	8.83	228.81
8	8	2010	0	0	0.00	0	13	21.71601	-00	9	18.6835	4.222780303	-2.75	8.69	227.80
9	8	2010	0	0	0.00	0	13	10.71252	-00	10	48.1341	4.211507580	-2.76	8.54	226.79
10	8	2010	0	0	0.00	0	12	59.01552	-00	12	21.9086	4.200425142	-2.76	8.40	225.78
11	8	2010	0	0	0.00	0	12	46.63152	-00	13	59.9528	4.189537563	-2.77	8.25	224.76
12	8	2010	0	0	0.00	0	12	33.56788	-00	15	42.2077	4.178849292	-2.78	8.10	223.74
13	8	2010	0	0	0.00	0	12	19.83271	-00	17	28.6098	4.168364620	-2.78	7.94	222.72
14	8	2010	0	0	0.00	0	12	5.43472	-00	19	19.0928	4.158087654	-2.79	7.78	221.69
15	8	2010	0	0	0.00	0	11	50.38307	-00	21	13.5881	4.148022332	-2.79	7.62	220.66
16	8	2010	0	0	0.00	0	11	34.68725	-00	23	12.0255	4.138172438	-2.80	7.46	219.63
17	8	2010	0	0	0.00	0	11	18.35705	-00	25	14.3336	4.128541630	-2.81	7.29	218.59
18	8	2010	0	0	0.00	0	11	1.40250	-00	27	20.4398	4.119133473	-2.81	7.12	217.55
19	8	2010	0	0	0.00	0	10	43.83389	-00	29	30.2699	4.109951455	-2.82	6.95	216.51
20	8	2010	0	0	0.00	0	10	25.66175	-00	31	43.7482	4.100999003	-2.82	6.77	215.47
21	8	2010	0	0	0.00	0	10	6.89691	-00	34	0.7972	4.092279498	-2.83	6.59	214.42
22	8	2010	0	0	0.00	0	9	47.55053	-00	36	21.3371	4.083796280	-2.83	6.41	213.37
23	8	2010	0	0	0.00	0	9	27.63405	-00	38	45.2861	4.075552651	-2.84	6.23	212.31
24	8	2010	0	0	0.00	0	9	7.15928	-00	41	12.5600	4.067551884	-2.85	6.04	211.26
25	8	2010	0	0	0.00	0	8	46.13839	-00	43	43.0718	4.059797224	-2.85	5.86	210.20
26	8	2010	0	0	0.00	0	8	24.58394	-00	46	16.7320	4.052291889	-2.86	5.67	209.14
27	8	2010	0	0	0.00	0	8	2.50889	-00	48	53.4482	4.045039073	-2.86	5.47	208.07
28	8	2010	0	0	0.00	0	7	39.92661	-00	51	33.1247	4.038041945	-2.87	5.28	207.00
29	8	2010	0	0	0.00	0	7	16.85096	-00	54	15.6629	4.031303651	-2.87	5.08	205.93
30	8	2010	0	0	0.00	0	6	53.29625	-00	57	0.9605	4.024827309	-2.87	4.88	204.86
31	8	2010	0	0	0.00	0	6	29.27727	-00	59	48.9119	4.018616009	-2.88	4.68	203.79