

# Ephémérides de Vénus d'août 2008 à août 2010

données IMCCE

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#####  
 EPHEMERIDES DES CORPS DU SYSTEME SOLAIRE  
 #####

Planete 2 Venus  
 Theorie planetaire DE405/LE405  
 Coordonnees Moyennes de la date  
 Centre du repere : geocentre  
 Coordonnees equatoriales (R.A, Dec.)

#####

	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	9 45	51.76176	+15	1	50.2257		1.654520336	-3.91	20.82	14.71
2	8	2008	0 0 0.00	9 50	39.71336	+14	37	26.1325		1.651482323	-3.91	21.21	14.98
3	8	2008	0 0 0.00	9 55	26.54788	+14	12	38.5940		1.648391529	-3.91	21.60	15.25
4	8	2008	0 0 0.00	10 0	12.28078	+13	47	28.3532		1.645248337	-3.91	21.99	15.52
5	8	2008	0 0 0.00	10 4	56.92944	+13	21	56.1536		1.642053206	-3.91	22.38	15.79
6	8	2008	0 0 0.00	10 9	40.51326	+12	56	2.7372		1.638806651	-3.91	22.77	16.06
7	8	2008	0 0 0.00	10 14	23.05355	+12	29	48.8442		1.635509222	-3.90	23.16	16.33
8	8	2008	0 0 0.00	10 19	4.57350	+12	3	15.2125		1.632161493	-3.90	23.55	16.60
9	8	2008	0 0 0.00	10 23	45.09799	+11	36	22.5777		1.628764049	-3.90	23.94	16.87
10	8	2008	0 0 0.00	10 28	24.65357	+11	9	11.6728		1.625317482	-3.90	24.33	17.14
11	8	2008	0 0 0.00	10 33	3.26829	+10	41	43.2283		1.621822385	-3.90	24.72	17.40
12	8	2008	0 0 0.00	10 37	40.97163	+10	13	57.9718		1.618279355	-3.90	25.11	17.67
13	8	2008	0 0 0.00	10 42	17.79448	+09	45	56.6282		1.614688988	-3.90	25.49	17.94
14	8	2008	0 0 0.00	10 46	53.76902	+09	17	39.9190		1.611051877	-3.90	25.88	18.21
15	8	2008	0 0 0.00	10 51	28.92875	+08	49	8.5619		1.607368613	-3.90	26.27	18.47
16	8	2008	0 0 0.00	10 56	3.30841	+08	20	23.2712		1.603639771	-3.90	26.65	18.74
17	8	2008	0 0 0.00	11 0	36.94393	+07	51	24.7571		1.599865905	-3.90	27.04	19.00
18	8	2008	0 0 0.00	11 5	9.87241	+07	22	13.7260		1.596047536	-3.90	27.43	19.27
19	8	2008	0 0 0.00	11 9	42.13199	+06	52	50.8813		1.592185141	-3.90	27.81	19.53
20	8	2008	0 0 0.00	11 14	13.76173	+06	23	16.9235		1.588279140	-3.90	28.19	19.80
21	8	2008	0 0 0.00	11 18	44.80148	+05	53	32.5518		1.584329889	-3.90	28.58	20.06
22	8	2008	0 0 0.00	11 23	15.29168	+05	23	38.4650		1.580337679	-3.90	28.96	20.32
23	8	2008	0 0 0.00	11 27	45.27322	+04	53	35.3629		1.576302731	-3.90	29.34	20.59
24	8	2008	0 0 0.00	11 32	14.78721	+04	23	23.9474		1.572225208	-3.91	29.73	20.85
25	8	2008	0 0 0.00	11 36	43.87487	+03	53	4.9234		1.568105222	-3.91	30.11	21.11
26	8	2008	0 0 0.00	11 41	12.57730	+03	22	39.0001		1.563942849	-3.91	30.49	21.37
27	8	2008	0 0 0.00	11 45	40.93546	+02	52	6.8914		1.559738151	-3.91	30.87	21.63
28	8	2008	0 0 0.00	11 50	8.98998	+02	21	29.3157		1.555491194	-3.91	31.25	21.89
29	8	2008	0 0 0.00	11 54	36.78122	+01	50	46.9963		1.551202073	-3.91	31.63	22.15
30	8	2008	0 0 0.00	11 59	4.34927	+01	20	0.6596		1.546870934	-3.91	32.01	22.41
31	8	2008	0 0 0.00	12 3	31.73405	+00	49	11.0348		1.542497986	-3.91	32.38	22.66
1	9	2008	0 0 0.00	12 7	58.97544	+00	18	18.8516		1.538083511	-3.91	32.76	22.92
2	9	2008	0 0 0.00	12 12	26.11337	-00	12	35.1602		1.533627859	-3.91	33.14	23.18
3	9	2008	0 0 0.00	12 16	53.18799	-00	43	30.2725		1.529131445	-3.91	33.52	23.43
4	9	2008	0 0 0.00	12 21	20.23966	-01	14	25.7590		1.524594732	-3.91	33.89	23.69
5	9	2008	0 0 0.00	12 25	47.30901	-01	45	20.8952		1.520018220	-3.91	34.27	23.94
6	9	2008	0 0 0.00	12 30	14.43689	-02	16	14.9590		1.515402438	-3.91	34.64	24.20
7	9	2008	0 0 0.00	12 34	41.66435	-02	47	7.2297		1.510747930	-3.91	35.02	24.45
8	9	2008	0 0 0.00	12 39	9.03256	-03	17	56.9877		1.506055257	-3.91	35.39	24.70
9	9	2008	0 0 0.00	12 43	36.58280	-03	48	43.5149		1.501324988	-3.91	35.77	24.96
10	9	2008	0 0 0.00	12 48	4.35638	-04	19	26.0936		1.496557703	-3.91	36.14	25.21
11	9	2008	0 0 0.00	12 52	32.39465	-04	50	4.0071		1.491753993	-3.91	36.51	25.46
12	9	2008	0 0 0.00	12 57	0.73899	-05	20	36.5397		1.486914457	-3.91	36.89	25.71
13	9	2008	0 0 0.00	13 1	29.43083	-05	51	2.9764		1.482039698	-3.91	37.26	25.96
14	9	2008	0 0 0.00	13 5	58.51171	-06	21	22.6038		1.477130317	-3.92	37.63	26.21
15	9	2008	0 0 0.00	13 10	28.02325	-06	51	34.7091		1.472186901	-3.92	38.00	26.46
16	9	2008	0 0 0.00	13 14	58.00719	-07	21	38.5808		1.467210006	-3.92	38.37	26.70
17	9	2008	0 0 0.00	13 19	28.50528	-07	51	33.5071		1.462200139	-3.92	38.74	26.95
18	9	2008	0 0 0.00	13 23	59.55920	-08	21	18.7753		1.457157739	-3.92	39.11	27.20
19	9	2008	0 0 0.00	13 28	31.21033	-08	50	53.6698		1.452083165	-3.92	39.48	27.44
20	9	2008	0 0 0.00	13 33	3.49951	-09	20	17.4712		1.446976692	-3.92	39.85	27.69
21	9	2008	0 0 0.00	13 37	36.46677	-09	49	29.4539		1.441838507	-3.92	40.22	27.93
22	9	2008	0 0 0.00	13 42	10.15109	-10	18	28.8860		1.436668727	-3.92	40.59	28.17
23	9	2008	0 0 0.00	13 46	44.59015	-10	47	15.0277		1.431467410	-3.92	40.96	28.42
24	9	2008	0 0 0.00	13 51	19.82017	-11	15	47.1317		1.426234572	-3.93	41.33	28.66
25	9	2008	0 0 0.00	13 55	55.87577	-11	44	4.4435		1.420970213	-3.93	41.70	28.90
26	9	2008	0 0 0.00	14 0	32.78986	-12	12	6.2013		1.415674330	-3.93	42.06	29.14

27	9	2008	0	0	0.00	14	5	10.59362	-12	39	51.6376	1.410346936	-3.93	42.43	29.38
28	9	2008	0	0	0.00	14	9	49.31646	-13	7	19.9801	1.404988079	-3.93	42.80	29.62
29	9	2008	0	0	0.00	14	14	28.98606	-13	34	30.4527	1.399597846	-3.93	43.17	29.86
30	9	2008	0	0	0.00	14	19	9.62844	-14	1	22.2770	1.394176377	-3.93	43.53	30.09
1	10	2008	0	0	0.00	14	23	51.26796	-14	27	54.6736	1.388723863	-3.94	43.90	30.33
2	10	2008	0	0	0.00	14	28	33.92740	-14	54	6.8631	1.383240541	-3.94	44.26	30.56
3	10	2008	0	0	0.00	14	33	17.62800	-15	19	58.0668	1.377726696	-3.94	44.63	30.80
4	10	2008	0	0	0.00	14	38	2.38941	-15	45	27.5073	1.372182646	-3.94	45.00	31.03
5	10	2008	0	0	0.00	14	42	48.22965	-16	10	34.4095	1.366608740	-3.94	45.36	31.27
6	10	2008	0	0	0.00	14	47	35.16511	-16	35	18.0003	1.361005352	-3.94	45.73	31.50
7	10	2008	0	0	0.00	14	52	23.21041	-16	59	37.5097	1.355372879	-3.95	46.09	31.73
8	10	2008	0	0	0.00	14	57	12.37835	-17	23	32.1707	1.349711737	-3.95	46.46	31.96
9	10	2008	0	0	0.00	15	2	2.67988	-17	47	1.2203	1.344022364	-3.95	46.82	32.19
10	10	2008	0	0	0.00	15	6	54.12404	-18	10	3.8998	1.338305222	-3.95	47.19	32.42
11	10	2008	0	0	0.00	15	11	46.71796	-18	32	39.4562	1.332560795	-3.95	47.56	32.65
12	10	2008	0	0	0.00	15	16	40.46695	-18	54	47.1424	1.326789592	-3.96	47.92	32.88
13	10	2008	0	0	0.00	15	21	35.37451	-19	16	26.2188	1.320992134	-3.96	48.29	33.10
14	10	2008	0	0	0.00	15	26	31.44248	-19	37	35.9533	1.315168949	-3.96	48.65	33.33
15	10	2008	0	0	0.00	15	31	28.67108	-19	58	15.6225	1.309320544	-3.96	49.02	33.55
16	10	2008	0	0	0.00	15	36	27.05882	-20	18	24.5111	1.303447383	-3.97	49.39	33.78
17	10	2008	0	0	0.00	15	41	26.60243	-20	38	1.9120	1.297549859	-3.97	49.75	34.00
18	10	2008	0	0	0.00	15	46	27.29650	-20	57	7.1255	1.291628274	-3.97	50.12	34.22
19	10	2008	0	0	0.00	15	51	29.13310	-21	15	39.4594	1.285682830	-3.97	50.49	34.44
20	10	2008	0	0	0.00	15	56	32.10142	-21	33	38.2285	1.279713631	-3.98	50.86	34.66
21	10	2008	0	0	0.00	16	1	36.18739	-21	51	2.7556	1.273720701	-3.98	51.22	34.88
22	10	2008	0	0	0.00	16	6	41.37342	-22	7	52.3726	1.267704002	-3.98	51.59	35.10
23	10	2008	0	0	0.00	16	11	47.63830	-22	24	6.4221	1.261663457	-3.98	51.96	35.32
24	10	2008	0	0	0.00	16	16	54.95709	-22	39	44.2592	1.255598968	-3.99	52.33	35.53
25	10	2008	0	0	0.00	16	22	3.30115	-22	54	45.2533	1.249510437	-3.99	52.70	35.75
26	10	2008	0	0	0.00	16	27	12.63817	-23	9	8.7903	1.243397774	-3.99	53.07	35.96
27	10	2008	0	0	0.00	16	32	22.93228	-23	22	54.2746	1.237260909	-4.00	53.44	36.17
28	10	2008	0	0	0.00	16	37	34.14414	-23	36	1.1306	1.231099803	-4.00	53.81	36.39
29	10	2008	0	0	0.00	16	42	46.23104	-23	48	28.8047	1.224914451	-4.00	54.18	36.60
30	10	2008	0	0	0.00	16	47	59.14713	-24	0	16.7668	1.218704885	-4.00	54.55	36.81
31	10	2008	0	0	0.00	16	53	12.84351	-24	11	24.5120	1.212471176	-4.01	54.92	37.01
1	11	2008	0	0	0.00	16	58	27.26845	-24	21	51.5618	1.206213434	-4.01	55.30	37.22
2	11	2008	0	0	0.00	17	3	42.36753	-24	31	37.4653	1.199931802	-4.01	55.67	37.43
3	11	2008	0	0	0.00	17	8	58.08378	-24	40	41.8006	1.193626461	-4.02	56.04	37.63
4	11	2008	0	0	0.00	17	14	14.35787	-24	49	4.1755	1.187297619	-4.02	56.42	37.84
5	11	2008	0	0	0.00	17	19	31.12823	-24	56	44.2285	1.180945516	-4.02	56.80	38.04
6	11	2008	0	0	0.00	17	24	48.33121	-25	3	41.6299	1.174570424	-4.03	57.17	38.24
7	11	2008	0	0	0.00	17	30	5.90129	-25	9	56.0822	1.168172648	-4.03	57.55	38.44
8	11	2008	0	0	0.00	17	35	23.77128	-25	15	27.3211	1.161752530	-4.04	57.93	38.64
9	11	2008	0	0	0.00	17	40	41.87261	-25	20	15.1159	1.155310453	-4.04	58.31	38.84
10	11	2008	0	0	0.00	17	46	0.13568	-25	24	19.2700	1.148846842	-4.04	58.69	39.04
11	11	2008	0	0	0.00	17	51	18.49032	-25	27	39.6203	1.142362163	-4.05	59.07	39.23
12	11	2008	0	0	0.00	17	56	36.86617	-25	30	16.0375	1.135856904	-4.05	59.45	39.43
13	11	2008	0	0	0.00	18	1	55.19321	-25	32	8.4251	1.129331559	-4.06	59.84	39.62
14	11	2008	0	0	0.00	18	7	13.40193	-25	33	16.7185	1.122786590	-4.06	60.22	39.81
15	11	2008	0	0	0.00	18	12	31.42350	-25	33	40.8845	1.116222395	-4.06	60.61	40.00
16	11	2008	0	0	0.00	18	17	49.18957	-25	33	20.9212	1.109639278	-4.07	61.00	40.19
17	11	2008	0	0	0.00	18	23	6.63200	-25	32	16.8578	1.103037434	-4.07	61.39	40.38
18	11	2008	0	0	0.00	18	28	23.68250	-25	30	28.7559	1.096416957	-4.08	61.78	40.57
19	11	2008	0	0	0.00	18	33	40.27247	-25	27	56.7101	1.089777854	-4.08	62.17	40.75
20	11	2008	0	0	0.00	18	38	56.33289	-25	24	40.8488	1.083120071	-4.08	62.56	40.93
21	11	2008	0	0	0.00	18	44	11.79443	-25	20	41.3351	1.076443516	-4.09	62.96	41.11
22	11	2008	0	0	0.00	18	49	26.58764	-25	15	58.3671	1.069748079	-4.09	63.35	41.29
23	11	2008	0	0	0.00	18	54	40.64319	-25	10	32.1778	1.063033648	-4.10	63.75	41.47
24	11	2008	0	0	0.00	18	59	53.89209	-25	4	23.0349	1.056300116	-4.10	64.15	41.65
25	11	2008	0	0	0.00	19	5	6.26597	-24	57	31.2410	1.049547391	-4.11	64.55	41.82
26	11	2008	0	0	0.00	19	10	17.69729	-24	49	57.1323	1.042775402	-4.11	64.95	41.99
27	11	2008	0	0	0.00	19	15	28.11955	-24	41	41.0787	1.035984102	-4.12	65.35	42.17
28	11	2008	0	0	0.00	19	20	37.46750	-24	32	43.4830	1.029173472	-4.12	65.76	42.34
29	11	2008	0	0	0.00	19	25	45.67734	-24	23	4.7795	1.022343525	-4.13	66.17	42.50
30	11	2008	0	0	0.00	19	30	52.68687	-24	12	45.4335	1.015494307	-4.13	66.58	42.67
1	12	2008	0	0	0.00	19	35	58.43571	-24	1	45.9400	1.008625901	-4.14	66.99	42.83
2	12	2008	0	0	0.00	19	41	2.86537	-23	50	6.8226	1.001738422	-4.14	67.40	43.00
3	12	2008	0	0	0.00	19	46	5.91942	-23	37	48.6321	0.994832028	-4.15	67.82	43.16
4	12	2008	0	0	0.00	19	51	7.54357	-23	24	51.9456	0.987906911	-4.15	68.23	43.31
5	12	2008	0	0	0.00	19	56	7.68576	-23	11	17.3647	0.980963307	-4.16	68.65	43.47
6	12	2008	0	0	0.00	20	1	6.29624	-22	57	5.5144	0.974001496	-4.16	69.08	43.63
7	12	2008	0	0	0.00	20	6	3.32767	-22	42	17.0412	0.967021810	-4.17	69.50	43.78
8	12	2008	0	0	0.00	20	10	58.73530	-22	26	52.6114	0.960024639	-4.17	69.93	43.93
9	12	2008	0	0	0.00	20	15	52.47711	-22	10	52.9081	0.953010432	-4.18	70.36	44.08
10	12	2008	0	0	0.00	20	20	44.51420	-21	54	18.6289	0.945979699	-4.19	70.79	44.22
11	12	2008	0	0	0.00	20	25	34.81104	-21	37	10.4820	0.938933002	-4.19	71.22	44.36
12	12	2008	0	0	0.00	20	30	23.33580	-21	19	29.1831	0.931870926	-4.20	71.66	44.50
13	12	2008	0	0	0.00	20	35	10.06052	-21	1	15.4524	0.924794046	-4.20	72.10	44.64
14	12	2008	0	0	0.00	20	39	54.96089	-20	42	30.0139	0.917702889	-4.21	72.55	44.78

15	12	2008	0	0	0.00	20	44	38.01593	-20	23	13.5954	0.910597894	-4.22	72.99	44.91
16	12	2008	0	0	0.00	20	49	19.20724	-20	3	26.9303	0.903479400	-4.22	73.44	45.04
17	12	2008	0	0	0.00	20	53	58.51840	-19	43	10.7601	0.896347643	-4.23	73.89	45.17
18	12	2008	0	0	0.00	20	58	35.93438	-19	22	25.8361	0.889202776	-4.23	74.35	45.29
19	12	2008	0	0	0.00	21	3	11.44115	-19	1	12.9205	0.882044894	-4.24	74.81	45.41
20	12	2008	0	0	0.00	21	7	45.02550	-18	39	32.7866	0.874874056	-4.25	75.27	45.53
21	12	2008	0	0	0.00	21	12	16.67494	-18	17	26.2182	0.867690307	-4.25	75.74	45.65
22	12	2008	0	0	0.00	21	16	46.37765	-17	54	54.0091	0.860493687	-4.26	76.20	45.76
23	12	2008	0	0	0.00	21	21	14.12246	-17	31	56.9622	0.853284246	-4.26	76.68	45.87
24	12	2008	0	0	0.00	21	25	39.89880	-17	8	35.8886	0.846062045	-4.27	77.15	45.97
25	12	2008	0	0	0.00	21	30	3.69661	-16	44	51.6070	0.838827165	-4.28	77.63	46.08
26	12	2008	0	0	0.00	21	34	25.50630	-16	20	44.9434	0.831579703	-4.28	78.12	46.18
27	12	2008	0	0	0.00	21	38	45.31856	-15	56	16.7304	0.824319786	-4.29	78.60	46.27
28	12	2008	0	0	0.00	21	43	3.12433	-15	31	27.8066	0.817047568	-4.30	79.09	46.36
29	12	2008	0	0	0.00	21	47	18.91464	-15	6	19.0166	0.809763238	-4.30	79.59	46.45
30	12	2008	0	0	0.00	21	51	32.68052	-14	40	51.2100	0.802467021	-4.31	80.09	46.53
31	12	2008	0	0	0.00	21	55	44.41288	-14	15	5.2411	0.795159191	-4.32	80.59	46.62
1	1	2009	0	0	0.00	21	59	54.10244	-13	49	1.9685	0.787840064	-4.32	81.10	46.69
2	1	2009	0	0	0.00	22	4	1.73961	-13	22	42.2540	0.780510013	-4.33	81.61	46.76
3	1	2009	0	0	0.00	22	8	7.31441	-12	56	6.9622	0.773169470	-4.34	82.13	46.83
4	1	2009	0	0	0.00	22	12	10.81639	-12	29	16.9599	0.765818929	-4.35	82.66	46.89
5	1	2009	0	0	0.00	22	16	12.23462	-12	2	13.1144	0.758458959	-4.35	83.18	46.95
6	1	2009	0	0	0.00	22	20	11.55767	-11	34	56.2924	0.751090206	-4.36	83.72	47.01
7	1	2009	0	0	0.00	22	24	8.77381	-11	7	27.3575	0.743713404	-4.37	84.26	47.06
8	1	2009	0	0	0.00	22	28	3.87116	-10	39	47.1673	0.736329370	-4.37	84.80	47.10
9	1	2009	0	0	0.00	22	31	56.83807	-10	11	56.5696	0.728938998	-4.38	85.35	47.14
10	1	2009	0	0	0.00	22	35	47.66339	-09	43	56.3995	0.721543234	-4.39	85.91	47.17
11	1	2009	0	0	0.00	22	39	36.33665	-09	15	47.4775	0.714143046	-4.40	86.47	47.20
12	1	2009	0	0	0.00	22	43	22.84790	-08	47	30.6099	0.706739377	-4.40	87.04	47.22
13	1	2009	0	0	0.00	22	47	7.18727	-08	19	6.5916	0.699333114	-4.41	87.62	47.24
14	1	2009	0	0	0.00	22	50	49.34424	-07	50	36.2115	0.691925071	-4.42	88.20	47.24
15	1	2009	0	0	0.00	22	54	29.30680	-07	22	0.2575	0.684515981	-4.42	88.79	47.25
16	1	2009	0	0	0.00	22	58	7.06076	-06	53	19.5210	0.677106517	-4.43	89.39	47.24
17	1	2009	0	0	0.00	23	1	42.58920	-06	24	34.8005	0.669697313	-4.44	89.99	47.23
18	1	2009	0	0	0.00	23	5	15.87213	-05	55	46.9026	0.662288985	-4.45	90.60	47.21
19	1	2009	0	0	0.00	23	8	46.88627	-05	26	56.6431	0.654882155	-4.45	91.22	47.19
20	1	2009	0	0	0.00	23	12	15.60491	-04	58	4.8469	0.647477459	-4.46	91.85	47.16
21	1	2009	0	0	0.00	23	15	41.99775	-04	29	12.3487	0.640075561	-4.47	92.48	47.11
22	1	2009	0	0	0.00	23	19	6.03079	-04	0	19.9927	0.632677160	-4.48	93.13	47.07
23	1	2009	0	0	0.00	23	22	27.66612	-03	31	28.6338	0.625282991	-4.48	93.78	47.01
24	1	2009	0	0	0.00	23	25	46.86169	-03	2	39.1382	0.617893835	-4.49	94.44	46.94
25	1	2009	0	0	0.00	23	29	3.57109	-02	33	52.3847	0.610510521	-4.50	95.11	46.87
26	1	2009	0	0	0.00	23	32	17.74322	-02	5	9.2661	0.603133935	-4.50	95.79	46.78
27	1	2009	0	0	0.00	23	35	29.32207	-01	36	30.6903	0.595765029	-4.51	96.48	46.69
28	1	2009	0	0	0.00	23	38	38.24639	-01	7	57.5814	0.588404830	-4.52	97.18	46.59
29	1	2009	0	0	0.00	23	41	44.44950	-00	39	30.8813	0.581054453	-4.53	97.90	46.47
30	1	2009	0	0	0.00	23	44	47.85903	-00	11	11.5502	0.573715111	-4.53	98.62	46.35
31	1	2009	0	0	0.00	23	47	48.39678	+00	16	59.4327	0.566388129	-4.54	99.35	46.21
1	2	2009	0	0	0.00	23	50	45.97856	+00	45	1.0684	0.559074951	-4.55	100.10	46.07
2	2	2009	0	0	0.00	23	53	40.51413	+01	12	52.3384	0.551777160	-4.55	100.86	45.91
3	2	2009	0	0	0.00	23	56	31.90720	+01	40	32.2047	0.544496481	-4.56	101.63	45.74
4	2	2009	0	0	0.00	23	59	20.05550	+02	7	59.6100	0.537234796	-4.56	102.42	45.55
5	2	2009	0	0	0.00	0	2	4.85105	+02	35	13.4800	0.529994148	-4.57	103.22	45.36
6	2	2009	0	0	0.00	0	4	46.18050	+03	2	12.7243	0.522776741	-4.58	104.03	45.14
7	2	2009	0	0	0.00	0	7	23.92559	+03	28	56.2394	0.515584936	-4.58	104.86	44.92
8	2	2009	0	0	0.00	0	9	57.96362	+03	55	22.9095	0.508421223	-4.59	105.70	44.68
9	2	2009	0	0	0.00	0	12	28.16762	+04	21	31.6064	0.501288200	-4.59	106.56	44.42
10	2	2009	0	0	0.00	0	14	54.40634	+04	47	21.1861	0.494188536	-4.60	107.44	44.14
11	2	2009	0	0	0.00	0	17	16.54372	+05	12	50.4822	0.487124947	-4.60	108.34	43.85
12	2	2009	0	0	0.00	0	19	34.43810	+05	37	58.2976	0.480100180	-4.61	109.25	43.54
13	2	2009	0	0	0.00	0	21	47.94134	+06	2	43.3948	0.473117021	-4.61	110.18	43.22
14	2	2009	0	0	0.00	0	23	56.89809	+06	27	4.4872	0.466178310	-4.62	111.13	42.87
15	2	2009	0	0	0.00	0	26	1.14519	+06	51	0.2324	0.459286967	-4.62	112.10	42.50
16	2	2009	0	0	0.00	0	28	0.51146	+07	14	29.2254	0.452446019	-4.62	113.09	42.12
17	2	2009	0	0	0.00	0	29	54.81771	+07	37	29.9950	0.445658621	-4.62	114.10	41.71
18	2	2009	0	0	0.00	0	31	43.87684	+08	0	0.9985	0.438928079	-4.63	115.14	41.28
19	2	2009	0	0	0.00	0	33	27.49419	+08	22	0.6185	0.432257865	-4.63	116.20	40.83
20	2	2009	0	0	0.00	0	35	5.46786	+08	43	27.1581	0.425651635	-4.63	117.28	40.35
21	2	2009	0	0	0.00	0	36	37.58923	+09	4	18.8363	0.419113234	-4.63	118.38	39.85
22	2	2009	0	0	0.00	0	38	3.64342	+09	24	33.7834	0.412646714	-4.63	119.51	39.33
23	2	2009	0	0	0.00	0	39	23.40996	+09	44	10.0354	0.406256347	-4.63	120.67	38.77
24	2	2009	0	0	0.00	0	40	36.66357	+10	3	5.5293	0.399946643	-4.63	121.86	38.20
25	2	2009	0	0	0.00	0	41	43.17516	+10	21	18.0983	0.393722363	-4.62	123.07	37.59
26	2	2009	0	0	0.00	0	42	42.71306	+10	38	45.4689	0.387588550	-4.62	124.31	36.95
27	2	2009	0	0	0.00	0	43	35.04477	+10	55	25.2584	0.381550543	-4.62	125.58	36.29
28	2	2009	0	0	0.00	0	44	19.93899	+11	11	14.9758	0.375614006	-4.61	126.88	35.59
1	3	2009	0	0	0.00	0	44	57.16823	+11	26	12.0249	0.369784945	-4.60	128.21	34.86
2	3	2009	0	0	0.00	0	45	26.51200	+11	40	13.7107	0.364069728	-4.60	129.57	34.10
3	3	2009	0	0	0.00	0	45	47.76045	+11	53	17.2491	0.358475092	-4.59	130.97	33.31

4	3	2009	0	0	0.00	0	46	0.71859	+12	5	19.7815	0.353008147	-4.58	132.40	32.48
5	3	2009	0	0	0.00	0	46	5.21102	+12	16	18.3929	0.347676373	-4.57	133.86	31.62
6	3	2009	0	0	0.00	0	46	1.08705	+12	26	10.1351	0.342487597	-4.56	135.36	30.73
7	3	2009	0	0	0.00	0	45	48.22623	+12	34	52.0552	0.337449970	-4.54	136.89	29.80
8	3	2009	0	0	0.00	0	45	26.54399	+12	42	21.2286	0.332571922	-4.53	138.45	28.83
9	3	2009	0	0	0.00	0	44	55.99716	+12	48	34.7956	0.327862112	-4.51	140.05	27.83
10	3	2009	0	0	0.00	0	44	16.58921	+12	53	30.0015	0.323329361	-4.49	141.68	26.80
11	3	2009	0	0	0.00	0	43	28.37486	+12	57	4.2393	0.318982586	-4.47	143.34	25.73
12	3	2009	0	0	0.00	0	42	31.46400	+12	59	15.0937	0.314830744	-4.45	145.03	24.63
13	3	2009	0	0	0.00	0	41	26.02512	+13	0	0.3893	0.310882767	-4.43	146.75	23.49
14	3	2009	0	0	0.00	0	40	12.28813	+12	59	18.2414	0.307147516	-4.40	148.50	22.33
15	3	2009	0	0	0.00	0	38	50.54683	+12	57	7.1126	0.303633736	-4.38	150.26	21.15
16	3	2009	0	0	0.00	0	37	21.16087	+12	53	25.8721	0.300350008	-4.35	152.04	19.94
17	3	2009	0	0	0.00	0	35	44.55701	+12	48	13.8585	0.297304692	-4.32	153.83	18.71
18	3	2009	0	0	0.00	0	34	1.22950	+12	41	30.9423	0.294505872	-4.29	155.63	17.47
19	3	2009	0	0	0.00	0	32	11.73923	+12	33	17.5850	0.291961280	-4.26	157.41	16.23
20	3	2009	0	0	0.00	0	30	16.71148	+12	23	34.8926	0.289678225	-4.23	159.18	14.99
21	3	2009	0	0	0.00	0	28	16.83212	+12	12	24.6587	0.287663514	-4.19	160.90	13.78
22	3	2009	0	0	0.00	0	26	12.84215	+11	59	49.3961	0.285923375	-4.16	162.57	12.60
23	3	2009	0	0	0.00	0	24	5.53079	+11	45	52.3522	0.284463378	-4.13	164.13	11.48
24	3	2009	0	0	0.00	0	21	55.72699	+11	30	37.5084	0.283288377	-4.10	165.56	10.45
25	3	2009	0	0	0.00	0	19	44.29003	+11	14	9.5618	0.282402449	-4.08	166.80	9.55
26	3	2009	0	0	0.00	0	17	32.09911	+10	56	33.8892	0.281808855	-4.05	167.78	351.16
27	3	2009	0	0	0.00	0	15	20.04281	+10	37	56.4950	0.281510014	-4.04	168.42	351.65
28	3	2009	0	0	0.00	0	13	9.00840	+10	18	23.9451	0.281507484	-4.03	168.67	351.85
29	3	2009	0	0	0.00	0	10	59.87167	+09	58	3.2889	0.281801957	-4.03	168.50	351.75
30	3	2009	0	0	0.00	0	8	53.48727	+09	37	1.9719	0.282393261	-4.04	167.92	351.36
31	3	2009	0	0	0.00	0	6	50.67985	+09	15	27.7395	0.283280359	-4.06	167.00	350.73
1	4	2009	0	0	0.00	0	4	52.23584	+08	53	28.5361	0.284461359	-4.08	165.81	349.89
2	4	2009	0	0	0.00	0	2	58.89609	+08	31	12.3988	0.285933516	-4.11	164.41	348.91
3	4	2009	0	0	0.00	0	1	11.34936	+08	8	47.3510	0.287693256	-4.14	162.87	347.84
4	4	2009	0	0	0.00	23	59	30.22671	+07	46	21.2965	0.289736196	-4.17	161.23	346.69
5	4	2009	0	0	0.00	23	57	56.09695	+07	24	1.9189	0.292057176	-4.19	159.53	345.50
6	4	2009	0	0	0.00	23	56	29.46327	+07	1	56.5885	0.294650312	-4.22	157.78	344.29
7	4	2009	0	0	0.00	23	55	10.76092	+06	40	12.2794	0.297509046	-4.25	156.01	343.07
8	4	2009	0	0	0.00	23	54	0.35624	+06	18	55.4995	0.300626220	-4.28	154.23	341.85
9	4	2009	0	0	0.00	23	52	58.54678	+05	58	12.2345	0.303994155	-4.30	152.45	340.65
10	4	2009	0	0	0.00	23	52	5.56269	+05	38	7.9070	0.307604741	-4.33	150.69	339.46
11	4	2009	0	0	0.00	23	51	21.56929	+05	18	47.3528	0.311449532	-4.35	148.93	338.29
12	4	2009	0	0	0.00	23	50	46.67069	+05	0	14.8125	0.315519847	-4.37	147.20	337.15
13	4	2009	0	0	0.00	23	50	20.91430	+04	42	33.9369	0.319806858	-4.39	145.50	336.03
14	4	2009	0	0	0.00	23	50	4.29593	+04	25	47.8055	0.324301681	-4.41	143.82	334.95
15	4	2009	0	0	0.00	23	49	56.76523	+04	9	58.9536	0.328995446	-4.43	142.17	333.90
16	4	2009	0	0	0.00	23	49	58.23119	+03	55	9.4057	0.333879363	-4.44	140.55	332.88
17	4	2009	0	0	0.00	23	50	8.56756	+03	41	20.7134	0.338944776	-4.46	138.97	331.90
18	4	2009	0	0	0.00	23	50	27.61792	+03	28	33.9948	0.344183200	-4.47	137.42	330.96
19	4	2009	0	0	0.00	23	50	55.20051	+03	16	49.9747	0.349586360	-4.48	135.90	330.04
20	4	2009	0	0	0.00	23	51	31.11253	+03	6	9.0239	0.355146221	-4.49	134.41	329.17
21	4	2009	0	0	0.00	23	52	15.13415	+02	56	31.1977	0.360855010	-4.50	132.96	328.32
22	4	2009	0	0	0.00	23	53	7.03216	+02	47	56.2727	0.366705245	-4.51	131.54	327.51
23	4	2009	0	0	0.00	23	54	6.56332	+02	40	23.7827	0.372689754	-4.51	130.15	326.74
24	4	2009	0	0	0.00	23	55	13.47755	+02	33	53.0535	0.378801698	-4.52	128.80	326.00
25	4	2009	0	0	0.00	23	56	27.52094	+02	28	23.2368	0.385034592	-4.52	127.47	325.28
26	4	2009	0	0	0.00	23	57	48.43873	+02	23	53.3435	0.391382308	-4.52	126.18	324.61
27	4	2009	0	0	0.00	23	59	15.97804	+02	20	22.2746	0.397839080	-4.53	124.91	323.96
28	4	2009	0	0	0.00	0	0	49.89030	+02	17	48.8485	0.404399482	-4.53	123.68	323.34
29	4	2009	0	0	0.00	0	2	29.93311	+02	16	11.8242	0.411058400	-4.53	122.47	322.74
30	4	2009	0	0	0.00	0	4	15.87161	+02	15	29.9182	0.417810991	-4.53	121.29	322.18
1	5	2009	0	0	0.00	0	6	7.47913	+02	15	41.8162	0.424652639	-4.53	120.14	321.64
2	5	2009	0	0	0.00	0	8	4.53741	+02	16	46.1800	0.431578919	-4.53	119.01	321.13
3	5	2009	0	0	0.00	0	10	6.83644	+02	18	41.6519	0.438585563	-4.52	117.91	320.65
4	5	2009	0	0	0.00	0	12	14.17420	+02	21	26.8574	0.445668436	-4.52	116.83	320.19
5	5	2009	0	0	0.00	0	14	26.35630	+02	25	0.4071	0.452823526	-4.52	115.77	319.75
6	5	2009	0	0	0.00	0	16	43.19559	+02	29	20.8981	0.460046928	-4.51	114.74	319.34
7	5	2009	0	0	0.00	0	19	4.51184	+02	34	26.9164	0.467334845	-4.51	113.73	318.94
8	5	2009	0	0	0.00	0	21	30.13145	+02	40	17.0389	0.474683586	-4.51	112.73	318.57
9	5	2009	0	0	0.00	0	23	59.88726	+02	46	49.8355	0.482089567	-4.50	111.76	318.22
10	5	2009	0	0	0.00	0	26	33.61832	+02	54	3.8722	0.489549317	-4.50	110.81	317.89
11	5	2009	0	0	0.00	0	29	11.16982	+03	1	57.7143	0.497059486	-4.49	109.88	317.58
12	5	2009	0	0	0.00	0	31	52.39307	+03	10	29.9297	0.504616845	-4.48	108.96	317.29
13	5	2009	0	0	0.00	0	34	37.14547	+03	19	39.0922	0.512218292	-4.48	108.07	317.01
14	5	2009	0	0	0.00	0	37	25.29049	+03	29	23.7846	0.519860854	-4.47	107.19	316.75
15	5	2009	0	0	0.00	0	40	16.69767	+03	39	42.6016	0.527541682	-4.47	106.32	316.51
16	5	2009	0	0	0.00	0	43	11.24254	+03	50	34.1520	0.535258053	-4.46	105.47	316.28
17	5	2009	0	0	0.00	0	46	8.80653	+04	1	57.0598	0.543007365	-4.45	104.64	316.07
18	5	2009	0	0	0.00	0	49	9.27671	+04	13	49.9655	0.550787130	-4.45	103.82	315.87
19	5	2009	0	0	0.00	0	52	12.54566	+04	26	11.5269	0.558594979	-4.44	103.02	315.69
20	5	2009	0	0	0.00	0	55	18.51116	+04	39	0.4189	0.566428659	-4.43	102.22	315.52
21	5	2009	0	0	0.00	0	58	27.07596	+04	52	15.3350	0.574286040	-4.42	101.44	315.36

22	5	2009	0	0	0.00	1	1	38.14764	+05	5	54.9877	0.582165127	-4.42	100.68	315.22
23	5	2009	0	0	0.00	1	4	51.63859	+05	19	58.1111	0.590064071	-4.41	99.92	315.09
24	5	2009	0	0	0.00	1	8	7.46614	+05	34	23.4640	0.597981181	-4.40	99.18	314.97
25	5	2009	0	0	0.00	1	11	25.55297	+05	49	9.8337	0.605914932	-4.39	98.45	314.86
26	5	2009	0	0	0.00	1	14	45.82753	+06	4	16.0398	0.613863960	-4.39	97.72	314.76
27	5	2009	0	0	0.00	1	18	8.22447	+06	19	40.9364	0.621827036	-4.38	97.01	314.67
28	5	2009	0	0	0.00	1	21	32.68484	+06	35	23.4124	0.629803035	-4.37	96.31	314.59
29	5	2009	0	0	0.00	1	24	59.15590	+06	51	22.3883	0.637790892	-4.36	95.62	314.52
30	5	2009	0	0	0.00	1	28	27.59073	+07	7	36.8123	0.645789567	-4.36	94.93	314.46
31	5	2009	0	0	0.00	1	31	57.94754	+07	24	5.6546	0.653798018	-4.35	94.26	314.41
1	6	2009	0	0	0.00	1	35	30.18895	+07	40	47.9024	0.661815178	-4.34	93.59	314.37
2	6	2009	0	0	0.00	1	39	4.28139	+07	57	42.5561	0.669839955	-4.33	92.93	314.33
3	6	2009	0	0	0.00	1	42	40.19445	+08	14	48.6258	0.677871228	-4.33	92.28	314.31
4	6	2009	0	0	0.00	1	46	17.90047	+08	32	5.1293	0.685907850	-4.32	91.64	314.29
5	6	2009	0	0	0.00	1	49	57.37415	+08	49	31.0907	0.693948652	-4.31	91.00	314.28
6	6	2009	0	0	0.00	1	53	38.59220	+09	7	5.5391	0.701992451	-4.30	90.37	314.28
7	6	2009	0	0	0.00	1	57	21.53314	+09	24	47.5085	0.710038056	-4.30	89.75	314.28
8	6	2009	0	0	0.00	2	1	6.17701	+09	42	36.0370	0.718084269	-4.29	89.14	314.29
9	6	2009	0	0	0.00	2	4	52.50525	+10	0	30.1670	0.726129895	-4.28	88.53	314.31
10	6	2009	0	0	0.00	2	8	40.50046	+10	18	28.9453	0.734173749	-4.27	87.93	314.34
11	6	2009	0	0	0.00	2	12	30.14635	+10	36	31.4232	0.742214657	-4.27	87.33	314.37
12	6	2009	0	0	0.00	2	16	21.42758	+10	54	36.6572	0.750251462	-4.26	86.74	314.41
13	6	2009	0	0	0.00	2	20	14.32965	+11	12	43.7085	0.758283027	-4.25	86.16	314.45
14	6	2009	0	0	0.00	2	24	8.83881	+11	30	51.6440	0.766308237	-4.25	85.58	314.50
15	6	2009	0	0	0.00	2	28	4.94194	+11	48	59.5362	0.774326003	-4.24	85.01	314.55
16	6	2009	0	0	0.00	2	32	2.62638	+12	7	6.4631	0.782335259	-4.23	84.44	314.61
17	6	2009	0	0	0.00	2	36	1.87973	+12	25	11.5084	0.790334973	-4.23	83.88	314.68
18	6	2009	0	0	0.00	2	40	2.68975	+12	43	13.7618	0.798324148	-4.22	83.32	314.75
19	6	2009	0	0	0.00	2	44	5.04411	+13	1	12.3191	0.806301837	-4.21	82.76	314.82
20	6	2009	0	0	0.00	2	48	8.93037	+13	19	6.2838	0.814267161	-4.21	82.22	314.90
21	6	2009	0	0	0.00	2	52	14.33596	+13	36	54.7681	0.822219328	-4.20	81.67	314.98
22	6	2009	0	0	0.00	2	56	21.24846	+13	54	36.8955	0.830157651	-4.19	81.13	315.07
23	6	2009	0	0	0.00	3	0	29.65600	+14	12	11.8030	0.838081564	-4.19	80.59	315.16
24	6	2009	0	0	0.00	3	4	39.54776	+14	29	38.6430	0.845990620	-4.18	80.06	315.26
25	6	2009	0	0	0.00	3	8	50.91450	+14	46	56.5840	0.853884465	-4.18	79.53	315.36
26	6	2009	0	0	0.00	3	13	3.74877	+15	4	4.8100	0.861762808	-4.17	79.01	315.46
27	6	2009	0	0	0.00	3	17	18.04491	+15	21	2.5175	0.869625381	-4.16	78.49	315.57
28	6	2009	0	0	0.00	3	21	33.79872	+15	37	48.9134	0.877471897	-4.16	77.97	315.68
29	6	2009	0	0	0.00	3	25	51.00697	+15	54	23.2116	0.885302034	-4.15	77.45	315.80
30	6	2009	0	0	0.00	3	30	9.66694	+16	10	44.6314	0.893115420	-4.15	76.94	315.92
1	7	2009	0	0	0.00	3	34	29.77591	+16	26	52.3956	0.900911631	-4.14	76.43	316.04
2	7	2009	0	0	0.00	3	38	51.33088	+16	42	45.7303	0.908690193	-4.14	75.93	316.17
3	7	2009	0	0	0.00	3	43	14.32820	+16	58	23.8647	0.916450591	-4.13	75.42	316.30
4	7	2009	0	0	0.00	3	47	38.76348	+17	13	46.0312	0.924192271	-4.13	74.92	316.43
5	7	2009	0	0	0.00	3	52	4.63131	+17	28	51.4656	0.931914646	-4.12	74.43	316.56
6	7	2009	0	0	0.00	3	56	31.92521	+17	43	39.4082	0.939617103	-4.12	73.93	316.70
7	7	2009	0	0	0.00	4	1	0.63744	+17	58	9.1038	0.947299001	-4.11	73.44	316.84
8	7	2009	0	0	0.00	4	5	30.75893	+18	12	19.8026	0.954959677	-4.11	72.95	316.99
9	7	2009	0	0	0.00	4	10	2.27913	+18	26	10.7609	0.962598452	-4.10	72.47	317.13
10	7	2009	0	0	0.00	4	14	35.18595	+18	39	41.2420	0.970214630	-4.10	71.98	317.28
11	7	2009	0	0	0.00	4	19	9.46563	+18	52	50.5168	0.977807504	-4.09	71.50	317.44
12	7	2009	0	0	0.00	4	23	45.10271	+19	5	37.8650	0.985376360	-4.09	71.02	317.59
13	7	2009	0	0	0.00	4	28	22.07990	+19	18	2.5757	0.992920476	-4.08	70.54	317.75
14	7	2009	0	0	0.00	4	33	0.37802	+19	30	3.9490	1.000439129	-4.08	70.07	317.91
15	7	2009	0	0	0.00	4	37	39.97591	+19	41	41.2961	1.007931600	-4.08	69.60	318.07
16	7	2009	0	0	0.00	4	42	20.85035	+19	52	53.9412	1.015397176	-4.07	69.13	318.24
17	7	2009	0	0	0.00	4	47	2.97591	+20	3	41.2223	1.022835161	-4.07	68.66	318.40
18	7	2009	0	0	0.00	4	51	46.32492	+20	14	2.4928	1.030244893	-4.06	68.19	318.57
19	7	2009	0	0	0.00	4	56	30.86745	+20	23	57.1228	1.037625760	-4.06	67.73	318.74
20	7	2009	0	0	0.00	5	1	16.57146	+20	33	24.5010	1.044977226	-4.06	67.26	318.92
21	7	2009	0	0	0.00	5	6	3.40306	+20	42	24.0362	1.052298853	-4.05	66.80	319.09
22	7	2009	0	0	0.00	5	10	51.32703	+20	50	55.1579	1.059590318	-4.05	66.34	319.27
23	7	2009	0	0	0.00	5	15	40.30739	+20	58	57.3175	1.066851412	-4.05	65.89	319.45
24	7	2009	0	0	0.00	5	20	30.30790	+21	6	29.9872	1.074082021	-4.04	65.43	319.63
25	7	2009	0	0	0.00	5	25	21.29241	+21	13	32.6591	1.081282092	-4.04	64.98	319.81
26	7	2009	0	0	0.00	5	30	13.22493	+21	20	4.8445	1.088451590	-4.04	64.52	320.00
27	7	2009	0	0	0.00	5	35	6.06949	+21	26	6.0724	1.095590472	-4.03	64.07	320.18
28	7	2009	0	0	0.00	5	39	59.78986	+21	31	35.8899	1.102698656	-4.03	63.62	320.37
29	7	2009	0	0	0.00	5	44	54.34927	+21	36	33.8617	1.109776018	-4.03	63.17	320.56
30	7	2009	0	0	0.00	5	49	49.71020	+21	40	59.5707	1.116822383	-4.02	62.72	320.75
31	7	2009	0	0	0.00	5	54	45.83424	+21	44	52.6192	1.123837535	-4.02	62.28	320.94
1	8	2009	0	0	0.00	5	59	42.68201	+21	48	12.6290	1.130821214	-4.02	61.83	321.14
2	8	2009	0	0	0.00	6	4	40.21318	+21	50	59.2426	1.137773127	-4.01	61.39	321.34
3	8	2009	0	0	0.00	6	9	38.38645	+21	53	12.1238	1.144692946	-4.01	60.94	321.53
4	8	2009	0	0	0.00	6	14	37.15964	+21	54	50.9586	1.151580314	-4.01	60.50	321.73
5	8	2009	0	0	0.00	6	19	36.48968	+21	55	55.4557	1.158434843	-4.01	60.06	321.93
6	8	2009	0	0	0.00	6	24	36.33274	+21	56	25.3471	1.165256117	-4.00	59.62	322.14
7	8	2009	0	0	0.00	6	29	36.64420	+21	56	20.3890	1.172043688	-4.00	59.19	322.34
8	8	2009	0	0	0.00	6	34	37.37873	+21	55	40.3627	1.178797082	-4.00	58.75	322.54

9	8	2009	0	0	0.00	6	39	38.49034	+21	54	25.0747	1.185515799	-4.00	58.31	322.75
10	8	2009	0	0	0.00	6	44	39.93244	+21	52	34.3580	1.192199315	-4.00	57.88	322.96
11	8	2009	0	0	0.00	6	49	41.65785	+21	50	8.0728	1.198847085	-3.99	57.45	323.17
12	8	2009	0	0	0.00	6	54	43.61889	+21	47	6.1066	1.205458548	-3.99	57.01	323.38
13	8	2009	0	0	0.00	6	59	45.76743	+21	43	28.3756	1.212033133	-3.99	56.58	323.59
14	8	2009	0	0	0.00	7	4	48.05495	+21	39	14.8251	1.218570266	-3.99	56.15	323.80
15	8	2009	0	0	0.00	7	9	50.43256	+21	34	25.4301	1.225069383	-3.99	55.72	324.01
16	8	2009	0	0	0.00	7	14	52.85113	+21	29	0.1962	1.231529943	-3.98	55.29	324.23
17	8	2009	0	0	0.00	7	19	55.26140	+21	22	59.1594	1.237951454	-3.98	54.87	324.44
18	8	2009	0	0	0.00	7	24	57.61420	+21	16	22.3866	1.244333492	-3.98	54.44	324.66
19	8	2009	0	0	0.00	7	29	59.86088	+21	9	9.9745	1.250675729	-3.98	54.01	324.88
20	8	2009	0	0	0.00	7	35	1.95368	+21	1	22.0479	1.256977947	-3.98	53.59	325.10
21	8	2009	0	0	0.00	7	40	3.84636	+20	52	58.7578	1.263240035	-3.97	53.17	325.32
22	8	2009	0	0	0.00	7	45	5.49459	+20	44	0.2789	1.269461981	-3.97	52.74	325.54
23	8	2009	0	0	0.00	7	50	6.85634	+20	34	26.8075	1.275643836	-3.97	52.32	325.76
24	8	2009	0	0	0.00	7	55	7.89195	+20	24	18.5597	1.281785681	-3.97	51.90	325.98
25	8	2009	0	0	0.00	8	0	8.56413	+20	13	35.7712	1.287887597	-3.97	51.48	326.20
26	8	2009	0	0	0.00	8	5	8.83786	+20	2	18.6963	1.293949648	-3.97	51.06	326.43
27	8	2009	0	0	0.00	8	10	8.68017	+19	50	27.6087	1.299971863	-3.97	50.64	326.65
28	8	2009	0	0	0.00	8	15	8.06010	+19	38	2.8009	1.305954236	-3.97	50.22	326.88
29	8	2009	0	0	0.00	8	20	6.94857	+19	25	4.5848	1.311896727	-3.96	49.80	327.10
30	8	2009	0	0	0.00	8	25	5.31835	+19	11	33.2908	1.317799265	-3.96	49.38	327.33
31	8	2009	0	0	0.00	8	30	3.14408	+18	57	29.2682	1.323661748	-3.96	48.97	327.56
1	9	2009	0	0	0.00	8	35	0.40224	+18	42	52.8841	1.329484049	-3.96	48.55	327.79
2	9	2009	0	0	0.00	8	39	57.07122	+18	27	44.5234	1.335266010	-3.96	48.14	328.02
3	9	2009	0	0	0.00	8	44	53.13127	+18	12	4.5881	1.341007447	-3.96	47.72	328.25
4	9	2009	0	0	0.00	8	49	48.56452	+17	55	53.4971	1.346708139	-3.96	47.31	328.48
5	9	2009	0	0	0.00	8	54	43.35496	+17	39	11.6857	1.352367835	-3.96	46.89	328.71
6	9	2009	0	0	0.00	8	59	37.48839	+17	21	59.6059	1.357986243	-3.96	46.48	328.95
7	9	2009	0	0	0.00	9	4	30.95231	+17	4	17.7255	1.363563035	-3.96	46.07	329.18
8	9	2009	0	0	0.00	9	9	23.73591	+16	46	6.5291	1.369097844	-3.95	45.66	329.41
9	9	2009	0	0	0.00	9	14	15.82994	+16	27	26.5175	1.374590271	-3.95	45.25	329.65
10	9	2009	0	0	0.00	9	19	7.22664	+16	8	18.2081	1.380039887	-3.95	44.84	329.88
11	9	2009	0	0	0.00	9	23	57.91963	+15	48	42.1346	1.385446243	-3.95	44.43	330.12
12	9	2009	0	0	0.00	9	28	47.90389	+15	28	38.8474	1.390808882	-3.95	44.02	330.36
13	9	2009	0	0	0.00	9	33	37.17566	+15	8	8.9130	1.396127352	-3.95	43.62	330.59
14	9	2009	0	0	0.00	9	38	25.73238	+14	47	12.9138	1.401401221	-3.95	43.21	330.83
15	9	2009	0	0	0.00	9	43	13.57275	+14	25	51.4474	1.406630104	-3.95	42.80	331.07
16	9	2009	0	0	0.00	9	48	0.69674	+14	4	5.1251	1.411813680	-3.95	42.40	331.31
17	9	2009	0	0	0.00	9	52	47.10576	+13	41	54.5703	1.416951714	-3.95	41.99	331.54
18	9	2009	0	0	0.00	9	57	32.80285	+13	19	20.4156	1.422044071	-3.95	41.59	331.78
19	9	2009	0	0	0.00	10	2	17.79297	+12	56	23.3010	1.427090716	-3.95	41.19	332.02
20	9	2009	0	0	0.00	10	7	2.08312	+12	33	3.8705	1.432091703	-3.95	40.78	332.26
21	9	2009	0	0	0.00	10	11	45.68256	+12	9	22.7709	1.437047154	-3.95	40.38	332.50
22	9	2009	0	0	0.00	10	16	28.60279	+11	45	20.6506	1.441957231	-3.95	39.98	332.75
23	9	2009	0	0	0.00	10	21	10.85748	+11	20	58.1593	1.446822113	-3.95	39.58	332.99
24	9	2009	0	0	0.00	10	25	52.46234	+10	56	15.9481	1.451641976	-3.95	39.18	333.23
25	9	2009	0	0	0.00	10	30	33.43497	+10	31	14.6701	1.456416983	-3.94	38.78	333.47
26	9	2009	0	0	0.00	10	35	13.79469	+10	5	54.9808	1.461147277	-3.94	38.38	333.71
27	9	2009	0	0	0.00	10	39	53.56240	+09	40	17.5382	1.465832983	-3.94	37.99	333.96
28	9	2009	0	0	0.00	10	44	32.76050	+09	14	23.0031	1.470474203	-3.94	37.59	334.20
29	9	2009	0	0	0.00	10	49	11.41280	+08	48	12.0390	1.475071023	-3.94	37.19	334.44
30	9	2009	0	0	0.00	10	53	49.54446	+08	21	45.3120	1.479623509	-3.94	36.80	334.69
1	10	2009	0	0	0.00	10	58	27.18194	+07	55	3.4905	1.484131705	-3.94	36.40	334.93
2	10	2009	0	0	0.00	11	3	4.35296	+07	28	7.2456	1.488595633	-3.94	36.01	335.18
3	10	2009	0	0	0.00	11	7	41.08641	+07	0	57.2506	1.493015281	-3.94	35.61	335.42
4	10	2009	0	0	0.00	11	12	17.41231	+06	33	34.1817	1.497390601	-3.94	35.22	335.67
5	10	2009	0	0	0.00	11	16	53.36165	+06	5	58.7184	1.501721499	-3.94	34.83	335.91
6	10	2009	0	0	0.00	11	21	28.96632	+05	38	11.5442	1.506007833	-3.94	34.44	336.16
7	10	2009	0	0	0.00	11	26	4.25889	+05	10	13.3473	1.510249404	-3.94	34.05	336.41
8	10	2009	0	0	0.00	11	30	39.27246	+04	42	4.8221	1.514445968	-3.94	33.66	336.65
9	10	2009	0	0	0.00	11	35	14.04055	+04	13	46.6690	1.518597236	-3.94	33.27	336.90
10	10	2009	0	0	0.00	11	39	48.59685	+03	45	19.5960	1.522702887	-3.94	32.88	337.15
11	10	2009	0	0	0.00	11	44	22.97519	+03	16	44.3181	1.526762588	-3.94	32.49	337.39
12	10	2009	0	0	0.00	11	48	57.20941	+02	48	1.5579	1.530776004	-3.94	32.11	337.64
13	10	2009	0	0	0.00	11	53	31.33331	+02	19	12.0450	1.534742825	-3.94	31.72	337.89
14	10	2009	0	0	0.00	11	58	5.38064	+01	50	16.5152	1.538662779	-3.94	31.33	338.14
15	10	2009	0	0	0.00	12	2	39.38514	+01	21	15.7096	1.542535655	-3.94	30.95	338.38
16	10	2009	0	0	0.00	12	7	13.38063	+00	52	10.3733	1.546361314	-3.94	30.57	338.63
17	10	2009	0	0	0.00	12	11	47.40109	+00	23	1.2538	1.550139702	-3.94	30.18	338.88
18	10	2009	0	0	0.00	12	16	21.48086	-00	6	10.9007	1.553870852	-3.94	29.80	339.13
19	10	2009	0	0	0.00	12	20	55.65473	-00	35	25.3421	1.557554871	-3.94	29.42	339.37
20	10	2009	0	0	0.00	12	25	29.95806	-01	4	41.3236	1.561191935	-3.94	29.04	339.62
21	10	2009	0	0	0.00	12	30	4.42681	-01	33	58.0999	1.564782263	-3.94	28.66	339.87
22	10	2009	0	0	0.00	12	34	39.09753	-02	3	14.9268	1.568326105	-3.94	28.28	340.12
23	10	2009	0	0	0.00	12	39	14.00729	-02	32	31.0610	1.571823727	-3.94	27.91	340.37
24	10	2009	0	0	0.00	12	43	49.19359	-03	1	45.7593	1.575275395	-3.94	27.53	340.62
25	10	2009	0	0	0.00	12	48	24.69429	-03	30	58.2782	1.578681377	-3.94	27.15	340.86
26	10	2009	0	0	0.00	12	53	0.54747	-04	0	7.8731	1.582041931	-3.94	26.78	341.11

27	10	2009	0	0	0.00	12	57	36.79142	-04	29	13.7981	1.585357312	-3.94	26.40	341.36
28	10	2009	0	0	0.00	13	2	13.46451	-04	58	15.3056	1.588627767	-3.94	26.03	341.61
29	10	2009	0	0	0.00	13	6	50.60518	-05	27	11.6467	1.591853536	-3.94	25.66	341.86
30	10	2009	0	0	0.00	13	11	28.25194	-05	56	2.0704	1.595034848	-3.94	25.28	342.11
31	10	2009	0	0	0.00	13	16	6.44329	-06	24	45.8240	1.598171915	-3.94	24.91	342.36
1	11	2009	0	0	0.00	13	20	45.21772	-06	53	22.1527	1.601264924	-3.94	24.54	342.61
2	11	2009	0	0	0.00	13	25	24.61363	-07	21	50.2991	1.604314027	-3.93	24.17	342.85
3	11	2009	0	0	0.00	13	30	4.66923	-07	50	9.5026	1.607319321	-3.93	23.80	343.10
4	11	2009	0	0	0.00	13	34	45.42237	-08	18	18.9987	1.610280843	-3.93	23.43	343.35
5	11	2009	0	0	0.00	13	39	26.91032	-08	46	18.0174	1.613198558	-3.93	23.07	343.60
6	11	2009	0	0	0.00	13	44	9.16956	-09	14	5.7829	1.616072363	-3.93	22.70	343.85
7	11	2009	0	0	0.00	13	48	52.23546	-09	41	41.5124	1.618902090	-3.93	22.34	344.10
8	11	2009	0	0	0.00	13	53	36.14214	-10	9	4.4160	1.621687526	-3.93	21.97	344.35
9	11	2009	0	0	0.00	13	58	20.92223	-10	36	13.6970	1.624428436	-3.93	21.61	344.60
10	11	2009	0	0	0.00	14	3	6.60680	-11	3	8.5525	1.627124579	-3.93	21.24	344.85
11	11	2009	0	0	0.00	14	7	53.22527	-11	29	48.1744	1.629775734	-3.93	20.88	345.09
12	11	2009	0	0	0.00	14	12	40.80543	-11	56	11.7503	1.632381716	-3.93	20.52	345.34
13	11	2009	0	0	0.00	14	17	29.37343	-12	22	18.4653	1.634942389	-3.93	20.16	345.59
14	11	2009	0	0	0.00	14	22	18.95382	-12	48	7.5029	1.637457678	-3.93	19.80	345.84
15	11	2009	0	0	0.00	14	27	9.56962	-13	13	38.0460	1.639927576	-3.93	19.44	346.09
16	11	2009	0	0	0.00	14	32	1.24236	-13	38	49.2788	1.642352139	-3.93	19.09	346.33
17	11	2009	0	0	0.00	14	36	53.99214	-14	3	40.3867	1.644731491	-3.93	18.73	346.58
18	11	2009	0	0	0.00	14	41	47.83767	-14	28	10.5582	1.647065811	-3.93	18.37	346.83
19	11	2009	0	0	0.00	14	46	42.79628	-14	52	18.9845	1.649355325	-3.93	18.02	347.08
20	11	2009	0	0	0.00	14	51	38.88390	-15	16	4.8604	1.651600292	-3.93	17.67	347.33
21	11	2009	0	0	0.00	14	56	36.11499	-15	39	27.3846	1.653800999	-3.93	17.31	347.57
22	11	2009	0	0	0.00	15	1	34.50244	-16	2	25.7597	1.655957748	-3.93	16.96	347.82
23	11	2009	0	0	0.00	15	6	34.05756	-16	24	59.1927	1.658070853	-3.93	16.61	348.07
24	11	2009	0	0	0.00	15	11	34.78988	-16	47	6.8952	1.660140634	-3.93	16.26	348.31
25	11	2009	0	0	0.00	15	16	36.70715	-17	8	48.0840	1.662167416	-3.93	15.91	348.56
26	11	2009	0	0	0.00	15	21	39.81524	-17	30	1.9815	1.664151533	-3.93	15.56	348.81
27	11	2009	0	0	0.00	15	26	44.11812	-17	50	47.8166	1.666093317	-3.93	15.21	349.05
28	11	2009	0	0	0.00	15	31	49.61782	-18	11	4.8250	1.667993107	-3.93	14.86	349.30
29	11	2009	0	0	0.00	15	36	56.31443	-18	30	52.2503	1.669851234	-3.93	14.52	349.55
30	11	2009	0	0	0.00	15	42	4.20611	-18	50	9.3444	1.671668014	-3.93	14.17	349.79
1	12	2009	0	0	0.00	15	47	13.28905	-19	8	55.3679	1.673443731	-3.93	13.83	350.04
2	12	2009	0	0	0.00	15	52	23.55742	-19	27	9.5908	1.675178617	-3.93	13.48	350.28
3	12	2009	0	0	0.00	15	57	35.00316	-19	44	51.2923	1.676872831	-3.93	13.14	350.53
4	12	2009	0	0	0.00	16	2	47.61580	-20	1	59.7617	1.678526443	-3.93	12.80	350.78
5	12	2009	0	0	0.00	16	8	1.38210	-20	18	34.2982	1.680139429	-3.93	12.45	351.02
6	12	2009	0	0	0.00	16	13	16.28576	-20	34	34.2125	1.681711681	-3.93	12.11	351.27
7	12	2009	0	0	0.00	16	18	32.30723	-20	49	58.8277	1.683243023	-3.93	11.77	351.51
8	12	2009	0	0	0.00	16	23	49.42350	-21	4	47.4810	1.684733247	-3.93	11.43	351.76
9	12	2009	0	0	0.00	16	29	7.60812	-21	18	59.5260	1.686182128	-3.93	11.09	352.00
10	12	2009	0	0	0.00	16	34	26.83127	-21	32	34.3342	1.687589459	-3.93	10.76	352.24
11	12	2009	0	0	0.00	16	39	47.05988	-21	45	31.2974	1.688955059	-3.93	10.42	352.49
12	12	2009	0	0	0.00	16	45	8.25774	-21	57	49.8289	1.690278788	-3.93	10.08	352.73
13	12	2009	0	0	0.00	16	50	30.38574	-22	9	29.3653	1.691560553	-3.93	9.75	352.97
14	12	2009	0	0	0.00	16	55	53.40198	-22	20	29.3682	1.692800308	-3.93	9.41	353.22
15	12	2009	0	0	0.00	17	1	17.26197	-22	30	49.3250	1.693998060	-3.93	9.08	353.46
16	12	2009	0	0	0.00	17	6	41.91880	-22	40	28.7501	1.695153862	-3.92	8.75	353.70
17	12	2009	0	0	0.00	17	12	7.32333	-22	49	27.1863	1.696267814	-3.92	8.42	353.94
18	12	2009	0	0	0.00	17	17	33.42435	-22	57	44.2053	1.697340057	-3.92	8.09	354.18
19	12	2009	0	0	0.00	17	23	0.16876	-23	5	19.4085	1.698370766	-3.92	7.75	354.43
20	12	2009	0	0	0.00	17	28	27.50175	-23	12	12.4280	1.699360146	-3.92	7.43	354.67
21	12	2009	0	0	0.00	17	33	55.36693	-23	18	22.9268	1.700308425	-3.92	7.10	354.91
22	12	2009	0	0	0.00	17	39	23.70650	-23	23	50.5997	1.701215852	-3.92	6.77	355.15
23	12	2009	0	0	0.00	17	44	52.46140	-23	28	35.1735	1.702082691	-3.92	6.44	355.39
24	12	2009	0	0	0.00	17	50	21.57149	-23	32	36.4079	1.702909224	-3.92	6.12	355.63
25	12	2009	0	0	0.00	17	55	50.97574	-23	35	54.0953	1.703695744	-3.92	5.79	355.86
26	12	2009	0	0	0.00	18	1	20.61245	-23	38	28.0614	1.704442563	-3.92	5.47	356.10
27	12	2009	0	0	0.00	18	6	50.41948	-23	40	18.1651	1.705150003	-3.92	5.15	356.34
28	12	2009	0	0	0.00	18	12	20.33452	-23	41	24.2984	1.705818396	-3.92	4.82	356.58
29	12	2009	0	0	0.00	18	17	50.29538	-23	41	46.3863	1.706448071	-3.92	4.50	356.81
30	12	2009	0	0	0.00	18	23	20.24026	-23	41	24.3862	1.707039336	-3.92	4.19	357.04
31	12	2009	0	0	0.00	18	28	50.10791	-23	40	18.2876	1.707592451	-3.92	3.87	357.28
1	1	2010	0	0	0.00	18	34	19.83777	-23	38	28.1119	1.708107601	-3.92	3.56	357.51
2	1	2010	0	0	0.00	18	39	49.36989	-23	35	53.9122	1.708584872	-3.92	3.25	357.73
3	1	2010	0	0	0.00	18	45	18.64482	-23	32	35.7744	1.709024235	-3.92	2.94	357.96
4	1	2010	0	0	0.00	18	50	47.60342	-23	28	33.8176	1.709425557	-3.92	2.64	358.18
5	1	2010	0	0	0.00	18	56	16.18684	-23	23	48.1950	1.709788619	-3.92	2.35	358.39
6	1	2010	0	0	0.00	19	1	44.33649	-23	18	19.0941	1.710113151	-3.92	2.07	358.60
7	1	2010	0	0	0.00	19	7	11.99427	-23	12	6.7374	1.710398859	-3.92	1.80	358.79
8	1	2010	0	0	0.00	19	12	39.10277	-23	5	11.3816	1.710645455	-3.92	1.56	358.96
9	1	2010	0	0	0.00	19	18	5.60555	-22	57	33.3173	1.710852670	-3.92	1.35	359.09
10	1	2010	0	0	0.00	19	23	31.44747	-22	49	12.8678	1.711020263	-3.92	1.19	359.18
11	1	2010	0	0	0.00	19	28	56.57493	-22	40	10.3885	1.711148028	-3.92	1.11	0.80
12	1	2010	0	0	0.00	19	34	20.93604	-22	30	26.2656	1.711235793	-3.92	1.12	0.85
13	1	2010	0	0	0.00	19	39	44.48088	-22	20	0.9152	1.711283422	-3.92	1.22	0.96

14	1	2010	0	0	0.00	19	45	7.16166	-22	8	54.7817	1.711290812	-3.92	1.39	1.11
15	1	2010	0	0	0.00	19	50	28.93285	-21	57	8.3370	1.711257895	-3.92	1.61	1.28
16	1	2010	0	0	0.00	19	55	49.75132	-21	44	42.0789	1.711184636	-3.92	1.86	1.48
17	1	2010	0	0	0.00	20	1	9.57649	-21	31	36.5300	1.711071031	-3.92	2.13	1.69
18	1	2010	0	0	0.00	20	6	28.37038	-21	17	52.2359	1.710917108	-3.92	2.41	1.90
19	1	2010	0	0	0.00	20	11	46.09777	-21	3	29.7644	1.710722920	-3.92	2.70	2.12
20	1	2010	0	0	0.00	20	17	2.72619	-20	48	29.7035	1.710488546	-3.92	3.00	2.34
21	1	2010	0	0	0.00	20	22	18.22600	-20	32	52.6603	1.710214092	-3.92	3.30	2.57
22	1	2010	0	0	0.00	20	27	32.57048	-20	16	39.2599	1.709899685	-3.92	3.61	2.80
23	1	2010	0	0	0.00	20	32	45.73578	-19	59	50.1431	1.709545480	-3.92	3.92	3.03
24	1	2010	0	0	0.00	20	37	57.70103	-19	42	25.9658	1.709151653	-3.92	4.23	3.26
25	1	2010	0	0	0.00	20	43	8.44841	-19	24	27.3965	1.708718410	-3.92	4.55	3.49
26	1	2010	0	0	0.00	20	48	17.96316	-19	5	55.1151	1.708245974	-3.92	4.86	3.73
27	1	2010	0	0	0.00	20	53	26.23372	-18	46	49.8108	1.707734581	-3.92	5.18	3.96
28	1	2010	0	0	0.00	20	58	33.25178	-18	27	12.1802	1.707184460	-3.92	5.50	4.20
29	1	2010	0	0	0.00	21	3	39.01229	-18	7	2.9261	1.706595808	-3.91	5.82	4.43
30	1	2010	0	0	0.00	21	8	43.51333	-17	46	22.7569	1.705968750	-3.91	6.13	4.67
31	1	2010	0	0	0.00	21	13	46.75594	-17	25	12.3865	1.705303316	-3.91	6.46	4.90
1	2	2010	0	0	0.00	21	18	48.74372	-17	3	32.5356	1.704599416	-3.91	6.78	5.14
2	2	2010	0	0	0.00	21	23	49.48248	-16	41	23.9326	1.703856846	-3.91	7.10	5.37
3	2	2010	0	0	0.00	21	28	48.97985	-16	18	47.3150	1.703075302	-3.91	7.42	5.61
4	2	2010	0	0	0.00	21	33	47.24511	-15	55	43.4294	1.702254415	-3.91	7.74	5.85
5	2	2010	0	0	0.00	21	38	44.28906	-15	32	13.0314	1.701393782	-3.91	8.07	6.09
6	2	2010	0	0	0.00	21	43	40.12402	-15	8	16.8841	1.700492994	-3.91	8.39	6.32
7	2	2010	0	0	0.00	21	48	34.76383	-14	43	55.7577	1.699551646	-3.91	8.72	6.56
8	2	2010	0	0	0.00	21	53	28.22391	-14	19	10.4272	1.698569356	-3.91	9.04	6.80
9	2	2010	0	0	0.00	21	58	20.52125	-13	54	1.6725	1.697545761	-3.91	9.37	7.03
10	2	2010	0	0	0.00	22	3	11.67442	-13	28	30.2765	1.696480522	-3.91	9.69	7.27
11	2	2010	0	0	0.00	22	8	1.70353	-13	2	37.0246	1.695373326	-3.91	10.02	7.51
12	2	2010	0	0	0.00	22	12	50.63016	-12	36	22.7042	1.694223880	-3.91	10.35	7.75
13	2	2010	0	0	0.00	22	17	38.47736	-12	9	48.1040	1.693031921	-3.91	10.68	7.98
14	2	2010	0	0	0.00	22	22	25.26956	-11	42	54.0130	1.691797207	-3.91	11.00	8.22
15	2	2010	0	0	0.00	22	27	11.03252	-11	15	41.2204	1.690519530	-3.91	11.33	8.46
16	2	2010	0	0	0.00	22	31	55.79330	-10	48	10.5148	1.689198708	-3.91	11.66	8.70
17	2	2010	0	0	0.00	22	36	39.58020	-10	20	22.6837	1.687834592	-3.91	11.99	8.94
18	2	2010	0	0	0.00	22	41	22.42274	-09	52	18.5127	1.686427067	-3.91	12.33	9.18
19	2	2010	0	0	0.00	22	46	4.35159	-09	23	58.7851	1.684976051	-3.91	12.66	9.42
20	2	2010	0	0	0.00	22	50	45.39858	-08	55	24.2816	1.683481498	-3.91	12.99	9.65
21	2	2010	0	0	0.00	22	55	25.59664	-08	26	35.7793	1.681943399	-3.91	13.32	9.89
22	2	2010	0	0	0.00	23	0	4.97981	-07	57	34.0514	1.680361784	-3.91	13.66	10.13
23	2	2010	0	0	0.00	23	4	43.58325	-07	28	19.8662	1.678736721	-3.91	13.99	10.37
24	2	2010	0	0	0.00	23	9	21.44330	-06	58	53.9864	1.677068312	-3.91	14.33	10.61
25	2	2010	0	0	0.00	23	13	58.59749	-06	29	17.1685	1.675356687	-3.91	14.67	10.85
26	2	2010	0	0	0.00	23	18	35.08467	-05	59	30.1616	1.673601984	-3.91	15.00	11.09
27	2	2010	0	0	0.00	23	23	10.94499	-05	29	33.7077	1.671804324	-3.91	15.34	11.33
28	2	2010	0	0	0.00	23	27	46.21987	-04	59	28.5418	1.669963778	-3.91	15.68	11.57
1	3	2010	0	0	0.00	23	32	20.95182	-04	29	15.3940	1.668080332	-3.91	16.02	11.81
2	3	2010	0	0	0.00	23	36	55.18414	-03	58	54.9911	1.666153867	-3.91	16.36	12.05
3	3	2010	0	0	0.00	23	41	28.96060	-03	28	28.0597	1.664184153	-3.91	16.71	12.29
4	3	2010	0	0	0.00	23	46	2.32510	-02	57	55.3276	1.662170865	-3.91	17.05	12.53
5	3	2010	0	0	0.00	23	50	35.32146	-02	27	17.5253	1.660113604	-3.91	17.39	12.77
6	3	2010	0	0	0.00	23	55	7.99328	-01	56	35.3864	1.658011927	-3.91	17.74	13.01
7	3	2010	0	0	0.00	23	59	40.38387	-01	25	49.6472	1.655865376	-3.91	18.08	13.26
8	3	2010	0	0	0.00	0	4	12.53632	-00	55	1.0463	1.653673486	-3.91	18.43	13.50
9	3	2010	0	0	0.00	0	8	44.49346	-00	24	10.3240	1.651435805	-3.91	18.78	13.74
10	3	2010	0	0	0.00	0	13	16.29792	+00	6	41.7784	1.649151891	-3.91	19.12	13.98
11	3	2010	0	0	0.00	0	17	47.99212	+00	37	34.5183	1.646821318	-3.91	19.47	14.22
12	3	2010	0	0	0.00	0	22	19.61825	+01	8	27.1526	1.644443678	-3.91	19.82	14.46
13	3	2010	0	0	0.00	0	26	51.21827	+01	39	18.9371	1.642018578	-3.91	20.17	14.70
14	3	2010	0	0	0.00	0	31	22.83381	+02	10	9.1271	1.639545646	-3.91	20.53	14.95
15	3	2010	0	0	0.00	0	35	54.50619	+02	40	56.9769	1.637024532	-3.91	20.88	15.19
16	3	2010	0	0	0.00	0	40	26.27634	+03	11	41.7402	1.634454911	-3.91	21.23	15.43
17	3	2010	0	0	0.00	0	44	58.18480	+03	42	22.6700	1.631836493	-3.91	21.59	15.67
18	3	2010	0	0	0.00	0	49	30.27167	+04	12	59.0190	1.629169023	-3.91	21.94	15.91
19	3	2010	0	0	0.00	0	54	2.57661	+04	43	30.0396	1.626452292	-3.91	22.30	16.16
20	3	2010	0	0	0.00	0	58	35.13885	+05	13	54.9845	1.623686135	-3.91	22.66	16.40
21	3	2010	0	0	0.00	1	3	7.99721	+05	44	13.1071	1.620870442	-3.91	23.02	16.64
22	3	2010	0	0	0.00	1	7	41.19013	+06	14	23.6617	1.618005156	-3.92	23.38	16.89
23	3	2010	0	0	0.00	1	12	14.75568	+06	44	25.9043	1.615090276	-3.92	23.74	17.13
24	3	2010	0	0	0.00	1	16	48.73166	+07	14	19.0928	1.612125856	-3.92	24.10	17.37
25	3	2010	0	0	0.00	1	21	23.15567	+07	44	2.4875	1.609112001	-3.92	24.47	17.62
26	3	2010	0	0	0.00	1	25	58.06518	+08	13	35.3520	1.606048857	-3.92	24.83	17.86
27	3	2010	0	0	0.00	1	30	33.49764	+08	42	56.9529	1.602936592	-3.92	25.20	18.10
28	3	2010	0	0	0.00	1	35	9.49054	+09	12	6.5600	1.599775375	-3.92	25.57	18.35
29	3	2010	0	0	0.00	1	39	46.08134	+09	41	3.4454	1.596565341	-3.92	25.93	18.59
30	3	2010	0	0	0.00	1	44	23.30733	+10	9	46.8823	1.593306567	-3.92	26.30	18.84
31	3	2010	0	0	0.00	1	49	1.20540	+10	38	16.1435	1.589999047	-3.92	26.67	19.08
1	4	2010	0	0	0.00	1	53	39.81168	+11	6	30.4993	1.586642682	-3.92	27.05	19.33
2	4	2010	0	0	0.00	1	58	19.16126	+11	34	29.2167	1.583237291	-3.92	27.42	19.57



3	4	2010	0	0	0.00	2	2	59.28785	+12	2	11.5585	1.579782626	-3.92	27.79	19.82
4	4	2010	0	0	0.00	2	7	40.22365	+12	29	36.7833	1.576278391	-3.92	28.17	20.06
5	4	2010	0	0	0.00	2	12	21.99922	+12	56	44.1459	1.572724267	-3.92	28.55	20.30
6	4	2010	0	0	0.00	2	17	4.64343	+13	23	32.8983	1.569119923	-3.92	28.92	20.55
7	4	2010	0	0	0.00	2	21	48.18338	+13	50	2.2898	1.565465028	-3.92	29.30	20.79
8	4	2010	0	0	0.00	2	26	32.64445	+14	16	11.5686	1.561759257	-3.92	29.68	21.04
9	4	2010	0	0	0.00	2	31	18.05015	+14	41	59.9817	1.558002292	-3.92	30.06	21.28
10	4	2010	0	0	0.00	2	36	4.42217	+15	7	26.7758	1.554193827	-3.92	30.45	21.53
11	4	2010	0	0	0.00	2	40	51.78020	+15	32	31.1982	1.550333566	-3.92	30.83	21.77
12	4	2010	0	0	0.00	2	45	40.14190	+15	57	12.4965	1.546421224	-3.92	31.21	22.02
13	4	2010	0	0	0.00	2	50	29.52276	+16	21	29.9200	1.542456536	-3.92	31.60	22.26
14	4	2010	0	0	0.00	2	55	19.93603	+16	45	22.7202	1.538439261	-3.92	31.99	22.51
15	4	2010	0	0	0.00	3	0	11.39258	+17	8	50.1512	1.534369188	-3.93	32.38	22.75
16	4	2010	0	0	0.00	3	5	3.90088	+17	31	51.4711	1.530246148	-3.93	32.76	23.00
17	4	2010	0	0	0.00	3	9	57.46697	+17	54	25.9430	1.526070026	-3.93	33.15	23.24
18	4	2010	0	0	0.00	3	14	52.09441	+18	16	32.8359	1.521840769	-3.93	33.55	23.49
19	4	2010	0	0	0.00	3	19	47.78441	+18	38	11.4262	1.517558394	-3.93	33.94	23.73
20	4	2010	0	0	0.00	3	24	44.53580	+18	59	20.9984	1.513222990	-3.93	34.33	23.98
21	4	2010	0	0	0.00	3	29	42.34522	+19	20	0.8472	1.508834722	-3.93	34.73	24.22
22	4	2010	0	0	0.00	3	34	41.20716	+19	40	10.2773	1.504393827	-3.93	35.12	24.47
23	4	2010	0	0	0.00	3	39	41.11413	+19	59	48.6054	1.499900604	-3.93	35.52	24.71
24	4	2010	0	0	0.00	3	44	42.05674	+20	18	55.1602	1.495355404	-3.93	35.92	24.96
25	4	2010	0	0	0.00	3	49	44.02383	+20	37	29.2833	1.490758607	-3.93	36.32	25.20
26	4	2010	0	0	0.00	3	54	47.00250	+20	55	30.3296	1.486110605	-3.93	36.72	25.45
27	4	2010	0	0	0.00	3	59	50.97809	+21	12	57.6675	1.481411772	-3.93	37.12	25.69
28	4	2010	0	0	0.00	4	4	55.93406	+21	29	50.6788	1.476662443	-3.93	37.52	25.94
29	4	2010	0	0	0.00	4	10	1.85181	+21	46	8.7588	1.471862891	-3.93	37.93	26.18
30	4	2010	0	0	0.00	4	15	8.71042	+22	1	51.3171	1.467013326	-3.94	38.33	26.42
1	5	2010	0	0	0.00	4	20	16.48642	+22	16	57.7776	1.462113888	-3.94	38.74	26.67
2	5	2010	0	0	0.00	4	25	25.15358	+22	31	27.5795	1.457164662	-3.94	39.15	26.91
3	5	2010	0	0	0.00	4	30	34.68278	+22	45	20.1786	1.452165689	-3.94	39.56	27.15
4	5	2010	0	0	0.00	4	35	45.04202	+22	58	35.0484	1.447116979	-3.94	39.97	27.40
5	5	2010	0	0	0.00	4	40	56.19634	+23	11	11.6815	1.442018526	-3.94	40.38	27.64
6	5	2010	0	0	0.00	4	46	8.10796	+23	23	9.5908	1.436870312	-3.94	40.79	27.88
7	5	2010	0	0	0.00	4	51	20.73630	+23	34	28.3110	1.431672317	-3.94	41.20	28.12
8	5	2010	0	0	0.00	4	56	34.03809	+23	45	7.3998	1.426424517	-3.94	41.62	28.37
9	5	2010	0	0	0.00	5	1	47.96744	+23	55	6.4389	1.421126890	-3.94	42.03	28.61
10	5	2010	0	0	0.00	5	7	2.47591	+24	4	25.0353	1.415779411	-3.94	42.45	28.85
11	5	2010	0	0	0.00	5	12	17.51252	+24	13	2.8224	1.410382059	-3.94	42.86	29.09
12	5	2010	0	0	0.00	5	17	33.02386	+24	20	59.4613	1.404934814	-3.95	43.28	29.33
13	5	2010	0	0	0.00	5	22	48.95408	+24	28	14.6416	1.399437673	-3.95	43.70	29.57
14	5	2010	0	0	0.00	5	28	5.24498	+24	34	48.0830	1.393890653	-3.95	44.12	29.81
15	5	2010	0	0	0.00	5	33	21.83614	+24	40	39.5357	1.388293812	-3.95	44.54	30.05
16	5	2010	0	0	0.00	5	38	38.66509	+24	45	48.7823	1.382647262	-3.95	44.96	30.29
17	5	2010	0	0	0.00	5	43	55.66759	+24	50	15.6375	1.376951186	-3.95	45.38	30.52
18	5	2010	0	0	0.00	5	49	12.77795	+24	53	59.9495	1.371205849	-3.95	45.81	30.76
19	5	2010	0	0	0.00	5	54	29.92947	+24	57	1.5998	1.365411607	-3.95	46.23	31.00
20	5	2010	0	0	0.00	5	59	47.05482	+24	59	20.5028	1.359568906	-3.95	46.66	31.23
21	5	2010	0	0	0.00	6	5	4.08647	+25	0	56.6062	1.353678269	-3.96	47.09	31.47
22	5	2010	0	0	0.00	6	10	20.95708	+25	1	49.8898	1.347740290	-3.96	47.51	31.71
23	5	2010	0	0	0.00	6	15	37.59982	+25	2	0.3650	1.341755611	-3.96	47.94	31.94
24	5	2010	0	0	0.00	6	20	53.94864	+25	1	28.0742	1.335724906	-3.96	48.37	32.18
25	5	2010	0	0	0.00	6	26	9.93850	+25	0	13.0901	1.329648860	-3.96	48.80	32.41
26	5	2010	0	0	0.00	6	31	25.50552	+24	58	15.5148	1.323528144	-3.96	49.23	32.64
27	5	2010	0	0	0.00	6	36	40.58703	+24	55	35.4796	1.317363405	-3.96	49.67	32.88
28	5	2010	0	0	0.00	6	41	55.12159	+24	52	13.1443	1.311155245	-3.97	50.10	33.11
29	5	2010	0	0	0.00	6	47	9.04900	+24	48	8.6973	1.304904217	-3.97	50.53	33.34
30	5	2010	0	0	0.00	6	52	22.31021	+24	43	22.3554	1.298610823	-3.97	50.97	33.57
31	5	2010	0	0	0.00	6	57	34.84737	+24	37	54.3635	1.292275514	-3.97	51.40	33.80
1	6	2010	0	0	0.00	7	2	46.60381	+24	31	44.9945	1.285898701	-3.97	51.84	34.03
2	6	2010	0	0	0.00	7	7	57.52411	+24	24	54.5490	1.279480761	-3.97	52.28	34.25
3	6	2010	0	0	0.00	7	13	7.55418	+24	17	23.3547	1.273022044	-3.98	52.72	34.48
4	6	2010	0	0	0.00	7	18	16.64136	+24	9	11.7662	1.266522878	-3.98	53.16	34.71
5	6	2010	0	0	0.00	7	23	24.73458	+24	0	20.1639	1.259983575	-3.98	53.60	34.93
6	6	2010	0	0	0.00	7	28	31.78441	+23	50	48.9534	1.253404429	-3.98	54.04	35.15
7	6	2010	0	0	0.00	7	33	37.74315	+23	40	38.5653	1.246785718	-3.98	54.48	35.38
8	6	2010	0	0	0.00	7	38	42.56489	+23	29	49.4541	1.240127702	-3.99	54.93	35.60
9	6	2010	0	0	0.00	7	43	46.20548	+23	18	22.0980	1.233430623	-3.99	55.37	35.82
10	6	2010	0	0	0.00	7	48	48.62250	+23	6	16.9983	1.226694708	-3.99	55.82	36.04
11	6	2010	0	0	0.00	7	53	49.77514	+22	53	34.6798	1.219920175	-3.99	56.26	36.26
12	6	2010	0	0	0.00	7	58	49.62419	+22	40	15.6898	1.213107245	-3.99	56.71	36.47
13	6	2010	0	0	0.00	8	3	48.13189	+22	26	20.5982	1.206256166	-4.00	57.16	36.69
14	6	2010	0	0	0.00	8	8	45.26206	+22	11	49.9960	1.199367232	-4.00	57.60	36.91
15	6	2010	0	0	0.00	8	13	40.98017	+21	56	44.4943	1.192440810	-4.00	58.05	37.12
16	6	2010	0	0	0.00	8	18	35.25362	+21	41	4.7214	1.185477358	-4.00	58.50	37.33
17	6	2010	0	0	0.00	8	23	28.05206	+21	24	51.3210	1.178477428	-4.01	58.96	37.54
18	6	2010	0	0	0.00	8	28	19.34769	+21	8	4.9488	1.171441673	-4.01	59.41	37.75
19	6	2010	0	0	0.00	8	33	9.11554	+20	50	46.2700	1.164370825	-4.01	59.86	37.96
20	6	2010	0	0	0.00	8	37	57.33363	+20	32	55.9572	1.157265680	-4.01	60.32	38.17

21	6	2010	0	0	0.00	8	42	43.98304	+20	14	34.6885	1.150127081	-4.02	60.77	38.38
22	6	2010	0	0	0.00	8	47	29.04793	+19	55	43.1460	1.142955891	-4.02	61.23	38.58
23	6	2010	0	0	0.00	8	52	12.51547	+19	36	22.0150	1.135752981	-4.02	61.68	38.79
24	6	2010	0	0	0.00	8	56	54.37571	+19	16	31.9828	1.128519212	-4.02	62.14	38.99
25	6	2010	0	0	0.00	9	1	34.62143	+18	56	13.7384	1.121255421	-4.03	62.60	39.19
26	6	2010	0	0	0.00	9	6	13.24800	+18	35	27.9723	1.113962416	-4.03	63.06	39.39
27	6	2010	0	0	0.00	9	10	50.25313	+18	14	15.3764	1.106640965	-4.03	63.53	39.58
28	6	2010	0	0	0.00	9	15	25.63669	+17	52	36.6434	1.099291792	-4.04	63.99	39.78
29	6	2010	0	0	0.00	9	19	59.40055	+17	30	32.4678	1.091915582	-4.04	64.45	39.97
30	6	2010	0	0	0.00	9	24	31.54833	+17	8	3.5449	1.084512978	-4.04	64.92	40.16
1	7	2010	0	0	0.00	9	29	2.08528	+16	45	10.5712	1.077084588	-4.05	65.39	40.35
2	7	2010	0	0	0.00	9	33	31.01816	+16	21	54.2442	1.069630983	-4.05	65.85	40.54
3	7	2010	0	0	0.00	9	37	58.35509	+15	58	15.2620	1.062152706	-4.05	66.32	40.73
4	7	2010	0	0	0.00	9	42	24.10548	+15	34	14.3228	1.054650269	-4.06	66.79	40.91
5	7	2010	0	0	0.00	9	46	48.27987	+15	9	52.1254	1.047124153	-4.06	67.27	41.09
6	7	2010	0	0	0.00	9	51	10.88989	+14	45	9.3684	1.039574808	-4.07	67.74	41.27
7	7	2010	0	0	0.00	9	55	31.94805	+14	20	6.7511	1.032002646	-4.07	68.21	41.45
8	7	2010	0	0	0.00	9	59	51.46752	+13	54	44.9735	1.024408042	-4.07	68.69	41.62
9	7	2010	0	0	0.00	10	4	9.46194	+13	29	4.7380	1.016791335	-4.08	69.17	41.80
10	7	2010	0	0	0.00	10	8	25.94504	+13	3	6.7501	1.009152828	-4.08	69.65	41.97
11	7	2010	0	0	0.00	10	12	40.93038	+12	36	51.7198	1.001492812	-4.09	70.13	42.14
12	7	2010	0	0	0.00	10	16	54.43099	+12	10	20.3625	0.993811580	-4.09	70.61	42.30
13	7	2010	0	0	0.00	10	21	6.45932	+11	43	33.3987	0.986109465	-4.09	71.09	42.47
14	7	2010	0	0	0.00	10	25	17.02716	+11	16	31.5526	0.978386872	-4.10	71.58	42.63
15	7	2010	0	0	0.00	10	29	26.14596	+10	49	15.5492	0.970644299	-4.10	72.06	42.79
16	7	2010	0	0	0.00	10	33	33.82708	+10	21	46.1109	0.962882349	-4.11	72.55	42.95
17	7	2010	0	0	0.00	10	37	40.08222	+09	54	3.9547	0.955101728	-4.11	73.04	43.10
18	7	2010	0	0	0.00	10	41	44.92367	+09	26	9.7893	0.947303226	-4.12	73.53	43.25
19	7	2010	0	0	0.00	10	45	48.36444	+08	58	4.3140	0.939487693	-4.12	74.03	43.40
20	7	2010	0	0	0.00	10	49	50.41834	+08	29	48.2178	0.931656023	-4.13	74.52	43.55
21	7	2010	0	0	0.00	10	53	51.09991	+08	1	22.1798	0.923809128	-4.13	75.02	43.69
22	7	2010	0	0	0.00	10	57	50.42432	+07	32	46.8694	0.915947930	-4.14	75.52	43.83
23	7	2010	0	0	0.00	11	1	48.40724	+07	4	2.9470	0.908073343	-4.14	76.03	43.96
24	7	2010	0	0	0.00	11	5	45.06472	+06	35	11.0644	0.900186268	-4.15	76.53	44.10
25	7	2010	0	0	0.00	11	9	40.41301	+06	6	11.8658	0.892287587	-4.15	77.04	44.23
26	7	2010	0	0	0.00	11	13	34.46846	+05	37	5.9883	0.884378155	-4.16	77.55	44.36
27	7	2010	0	0	0.00	11	17	27.24735	+05	7	54.0630	0.876458801	-4.17	78.06	44.48
28	7	2010	0	0	0.00	11	21	18.76572	+04	38	36.7152	0.868530320	-4.17	78.58	44.60
29	7	2010	0	0	0.00	11	25	9.03926	+04	9	14.5656	0.860593477	-4.18	79.10	44.71
30	7	2010	0	0	0.00	11	28	58.08315	+03	39	48.2307	0.852649005	-4.18	79.62	44.83
31	7	2010	0	0	0.00	11	32	45.91196	+03	10	18.3236	0.844697607	-4.19	80.14	44.94
1	8	2010	0	0	0.00	11	36	32.53949	+02	40	45.4542	0.836739953	-4.20	80.67	45.04
2	8	2010	0	0	0.00	11	40	17.97870	+02	11	10.2301	0.828776681	-4.20	81.20	45.14
3	8	2010	0	0	0.00	11	44	2.24159	+01	41	33.2567	0.820808396	-4.21	81.74	45.24
4	8	2010	0	0	0.00	11	47	45.33904	+01	11	55.1381	0.812835665	-4.21	82.27	45.33
5	8	2010	0	0	0.00	11	51	27.28063	+00	42	16.4783	0.804859012	-4.22	82.81	45.42
6	8	2010	0	0	0.00	11	55	8.07439	+00	12	37.8826	0.796878915	-4.23	83.36	45.50
7	8	2010	0	0	0.00	11	58	47.72641	-00	17	0.0402	0.788895803	-4.23	83.91	45.58
8	8	2010	0	0	0.00	12	2	26.24039	-00	46	36.6753	0.780910064	-4.24	84.46	45.65
9	8	2010	0	0	0.00	12	6	3.61711	-01	16	11.3995	0.772922059	-4.25	85.01	45.72
10	8	2010	0	0	0.00	12	9	39.85394	-01	45	43.5792	0.764932152	-4.25	85.57	45.78
11	8	2010	0	0	0.00	12	13	14.94457	-02	15	12.5703	0.756940750	-4.26	86.14	45.84
12	8	2010	0	0	0.00	12	16	48.87901	-02	44	37.7199	0.748948339	-4.27	86.71	45.90
13	8	2010	0	0	0.00	12	20	21.64385	-03	13	58.3699	0.740955519	-4.28	87.28	45.94
14	8	2010	0	0	0.00	12	23	53.22280	-03	43	13.8615	0.732963013	-4.28	87.86	45.99
15	8	2010	0	0	0.00	12	27	23.59718	-04	12	23.5388	0.724971664	-4.29	88.44	46.02
16	8	2010	0	0	0.00	12	30	52.74629	-04	41	26.7516	0.716982416	-4.30	89.03	46.05
17	8	2010	0	0	0.00	12	34	20.64762	-05	10	22.8563	0.708996291	-4.31	89.62	46.08
18	8	2010	0	0	0.00	12	37	47.27686	-05	39	11.2163	0.701014367	-4.31	90.22	46.10
19	8	2010	0	0	0.00	12	41	12.60782	-06	7	51.2010	0.693037765	-4.32	90.83	46.11
20	8	2010	0	0	0.00	12	44	36.61221	-06	36	22.1846	0.685067632	-4.33	91.44	46.11
21	8	2010	0	0	0.00	12	47	59.25952	-07	4	43.5457	0.677105137	-4.34	92.06	46.11
22	8	2010	0	0	0.00	12	51	20.51679	-07	32	54.6658	0.669151462	-4.34	92.69	46.10
23	8	2010	0	0	0.00	12	54	40.34844	-08	0	54.9286	0.661207806	-4.35	93.32	46.08
24	8	2010	0	0	0.00	12	57	58.71609	-08	28	43.7192	0.653275374	-4.36	93.96	46.06
25	8	2010	0	0	0.00	13	1	15.57838	-08	56	20.4232	0.645355381	-4.37	94.60	46.02
26	8	2010	0	0	0.00	13	4	30.89076	-09	23	44.4257	0.637449044	-4.37	95.26	45.98
27	8	2010	0	0	0.00	13	7	44.60528	-09	50	55.1108	0.629557587	-4.38	95.92	45.93
28	8	2010	0	0	0.00	13	10	56.67042	-10	17	51.8601	0.621682236	-4.39	96.59	45.87
29	8	2010	0	0	0.00	13	14	7.03080	-10	44	34.0519	0.613824217	-4.40	97.27	45.80
30	8	2010	0	0	0.00	13	17	15.62695	-11	11	1.0603	0.605984759	-4.41	97.96	45.72
31	8	2010	0	0	0.00	13	20	22.39511	-11	37	12.2539	0.598165090	-4.41	98.66	45.64