

Average values of the sun's declination and the equation of time at 12:00 GMT
of the years 2000 - 2099

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Date      Day  ----- Declination -----      ----- Equation of time -----
          nr  DD:MM:SS.ss  DD.dddddd  SSS.ssssss  H:MM:SS.ss  H.hhhhhh
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01JAN    1  -22:58:00.38  -22.966771  -211.953356  -0:03:31.95  -0.058876
02JAN    2  -22:52:40.95  -22.878043  -239.917845  -0:03:59.92  -0.066644
03JAN    3  -22:46:54.21  -22.781725  -267.534094  -0:04:27.53  -0.074315
04JAN    4  -22:40:40.32  -22.677866  -294.772817  -0:04:54.77  -0.081881
05JAN    5  -22:33:59.46  -22.566516  -321.605383  -0:05:21.61  -0.089335
06JAN    6  -22:26:51.82  -22.447729  -348.003856  -0:05:48.00  -0.096668
07JAN    7  -22:19:17.63  -22.321563  -373.941044  -0:06:13.94  -0.103873
08JAN    8  -22:11:17.09  -22.188079  -399.390535  -0:06:39.39  -0.110942
09JAN    9  -22:02:50.43  -22.047343  -424.326734  -0:07:04.33  -0.117869
10JAN   10  -21:53:57.92  -21.899421  -448.724903  -0:07:28.72  -0.124646
11JAN   11  -21:44:39.79  -21.744385  -472.561195  -0:07:52.56  -0.131267
12JAN   12  -21:34:56.31  -21.582309  -495.812681  -0:08:15.81  -0.137726
13JAN   13  -21:24:47.77  -21.413269  -518.457388  -0:08:38.46  -0.144016
14JAN   14  -21:14:14.45  -21.237347  -540.474318  -0:09:00.47  -0.150132
15JAN   15  -21:03:16.64  -21.054623  -561.843480  -0:09:21.84  -0.156068
16JAN   16  -20:51:54.66  -20.865184  -582.545908  -0:09:42.55  -0.161818
17JAN   17  -20:40:08.82  -20.669116  -602.563685  -0:10:02.56  -0.167379
18JAN   18  -20:27:59.44  -20.466511  -621.879958  -0:10:21.88  -0.172744
19JAN   19  -20:15:26.85  -20.257459  -640.478956  -0:10:40.48  -0.177911
20JAN   20  -20:02:31.40  -20.042056  -658.346003  -0:10:58.35  -0.182874
21JAN   21  -19:49:13.43  -19.820398  -675.467526  -0:11:15.47  -0.187630
22JAN   22  -19:35:33.30  -19.592582  -691.831067  -0:11:31.83  -0.192175
23JAN   23  -19:21:31.36  -19.358710  -707.425286  -0:11:47.43  -0.196507
24JAN   24  -19:07:07.98  -19.118883  -722.239967  -0:12:02.24  -0.200622
25JAN   25  -18:52:23.54  -18.873204  -736.266017  -0:12:16.27  -0.204518
26JAN   26  -18:37:18.40  -18.621779  -749.495468  -0:12:29.50  -0.208193
27JAN   27  -18:21:52.97  -18.364713  -761.921470  -0:12:41.92  -0.211645
28JAN   28  -18:06:07.61  -18.102114  -773.538288  -0:12:53.54  -0.214872
29JAN   29  -17:50:02.72  -17.834090  -784.341294  -0:13:04.34  -0.217873
30JAN   30  -17:33:38.71  -17.560752  -794.326959  -0:13:14.33  -0.220646
31JAN   31  -17:16:55.95  -17.282209  -803.492836  -0:13:23.49  -0.223192

01FEB   32  -16:59:54.87  -16.998574  -811.837555  -0:13:31.84  -0.225510
02FEB   33  -16:42:35.85  -16.709959  -819.360800  -0:13:39.36  -0.227600
03FEB   34  -16:24:59.32  -16.416477  -826.063296  -0:13:46.06  -0.229462
04FEB   35  -16:07:05.67  -16.118240  -831.946788  -0:13:51.95  -0.231096
05FEB   36  -15:48:55.31  -15.815365  -837.014025  -0:13:57.01  -0.232504
06FEB   37  -15:30:28.67  -15.507964  -841.268735  -0:14:01.27  -0.233686
07FEB   38  -15:11:46.15  -15.196154  -844.715601  -0:14:04.72  -0.234643
08FEB   39  -14:52:48.18  -14.880049  -847.360239  -0:14:07.36  -0.235378
09FEB   40  -14:33:35.15  -14.559765  -849.209174  -0:14:09.21  -0.235891
10FEB   41  -14:14:07.50  -14.235417  -850.269811  -0:14:10.27  -0.236186
11FEB   42  -13:54:25.64  -13.907122  -850.550408  -0:14:10.55  -0.236264
12FEB   43  -13:34:29.98  -13.574995  -850.060049  -0:14:10.06  -0.236128
13FEB   44  -13:14:20.95  -13.239152  -848.808615  -0:14:08.81  -0.235780
14FEB   45  -12:53:58.95  -12.899708  -846.806754  -0:14:06.81  -0.235224
15FEB   46  -12:33:24.41  -12.556780  -844.065852  -0:14:04.07  -0.234463
16FEB   47  -12:12:37.74  -12.210483  -840.598000  -0:14:00.60  -0.233499
17FEB   48  -11:51:39.36  -11.860933  -836.415970  -0:13:56.42  -0.232338
18FEB   49  -11:30:29.68  -11.508243  -831.533176  -0:13:51.53  -0.230981
19FEB   50  -11:09:09.11  -11.152530  -825.963649  -0:13:45.96  -0.229434
20FEB   51  -10:47:38.07  -10.793908  -819.722003  -0:13:39.72  -0.227701
21FEB   52  -10:25:56.97  -10.432491  -812.823406  -0:13:32.82  -0.225784
22FEB   53  -10:04:06.21  -10.068392  -805.283549  -0:13:25.28  -0.223690
23FEB   54  -9:42:06.21   -9.701726   -797.118615  -0:13:17.12  -0.221422
24FEB   55  -9:19:57.38   -9.332606   -788.345250  -0:13:08.35  -0.218985
25FEB   56  -8:57:40.11   -8.961143   -778.980532  -0:12:58.98  -0.216383

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26FEB	57	-8:35:14.82	-8.587450	-769.041943	-0:12:49.04	-0.213623
27FEB	58	-8:12:41.90	-8.211640	-758.547341	-0:12:38.55	-0.210708
28FEB	59	-7:50:01.76	-7.833823	-747.514930	-0:12:27.51	-0.207643
01MAR	60	-7:21:32.05	-7.358904	-732.997035	-0:12:13.00	-0.203610
02MAR	61	-6:58:37.11	-6.976975	-720.822664	-0:12:00.82	-0.200229
03MAR	62	-6:35:36.24	-6.593399	-708.171717	-0:11:48.17	-0.196714
04MAR	63	-6:12:29.82	-6.208283	-695.063578	-0:11:35.06	-0.193073
05MAR	64	-5:49:18.25	-5.821736	-681.517840	-0:11:21.52	-0.189311
06MAR	65	-5:26:01.92	-5.433867	-667.554285	-0:11:07.55	-0.185432
07MAR	66	-5:02:41.22	-5.044783	-653.192862	-0:10:53.19	-0.181442
08MAR	67	-4:39:16.53	-4.654591	-638.453661	-0:10:38.45	-0.177348
09MAR	68	-4:15:48.23	-4.263398	-623.356898	-0:10:23.36	-0.173155
10MAR	69	-3:52:16.72	-3.871310	-607.922891	-0:10:07.92	-0.168867
11MAR	70	-3:28:42.36	-3.478433	-592.172042	-0:09:52.17	-0.164492
12MAR	71	-3:05:05.54	-3.084871	-576.124819	-0:09:36.12	-0.160035
13MAR	72	-2:41:26.63	-2.690730	-559.801737	-0:09:19.80	-0.155500
14MAR	73	-2:17:46.01	-2.296113	-543.223345	-0:09:03.22	-0.150895
15MAR	74	-1:54:04.05	-1.901125	-526.410205	-0:08:46.41	-0.146225
16MAR	75	-1:30:21.12	-1.505867	-509.382882	-0:08:29.38	-0.141495
17MAR	76	-1:06:37.60	-1.110444	-492.161926	-0:08:12.16	-0.136712
18MAR	77	-0:42:53.85	-0.714957	-474.767859	-0:07:54.77	-0.131880
19MAR	78	-0:19:10.23	-0.319508	-457.221161	-0:07:37.22	-0.127006
20MAR	79	0:04:32.88	0.075801	-439.542262	-0:07:19.54	-0.122095
21MAR	80	0:28:15.13	0.470869	-421.751524	-0:07:01.75	-0.117153
22MAR	81	0:51:56.15	0.865596	-403.869232	-0:06:43.87	-0.112186
23MAR	82	1:15:35.57	1.259882	-385.915584	-0:06:25.92	-0.107199
24MAR	83	1:39:13.05	1.653626	-367.910678	-0:06:07.91	-0.102197
25MAR	84	2:02:48.23	2.046729	-349.874503	-0:05:49.87	-0.097187
26MAR	85	2:26:20.73	2.439093	-331.826930	-0:05:31.83	-0.092174
27MAR	86	2:49:50.22	2.830618	-313.787698	-0:05:13.79	-0.087163
28MAR	87	3:13:16.34	3.221206	-295.776410	-0:04:55.78	-0.082160
29MAR	88	3:36:38.73	3.610758	-277.812520	-0:04:37.81	-0.077170
30MAR	89	3:59:57.04	3.999178	-259.915320	-0:04:19.92	-0.072199
31MAR	90	4:23:10.92	4.386367	-242.103939	-0:04:02.10	-0.067251
01APR	91	4:46:20.02	4.772228	-224.397327	-0:03:44.40	-0.062333
02APR	92	5:09:23.99	5.156665	-206.814245	-0:03:26.81	-0.057448
03APR	93	5:32:22.49	5.539580	-189.373260	-0:03:09.37	-0.052604
04APR	94	5:55:15.16	5.920878	-172.092730	-0:02:52.09	-0.047804
05APR	95	6:18:01.66	6.300462	-154.990795	-0:02:34.99	-0.043053
06APR	96	6:40:41.65	6.678236	-138.085370	-0:02:18.09	-0.038357
07APR	97	7:03:14.78	7.054105	-121.394129	-0:02:01.39	-0.033721
08APR	98	7:25:40.71	7.427974	-104.934495	-0:01:44.93	-0.029148
09APR	99	7:47:59.09	7.799746	-88.723632	-0:01:28.72	-0.024645
10APR	100	8:10:09.58	8.169328	-72.778429	-0:01:12.78	-0.020216
11APR	101	8:32:11.85	8.536625	-57.115489	-0:00:57.12	-0.015865
12APR	102	8:54:05.55	8.901542	-41.751115	-0:00:41.75	-0.011598
13APR	103	9:15:50.34	9.263984	-26.701300	-0:00:26.70	-0.007417
14APR	104	9:37:25.89	9.623859	-11.981710	-0:00:11.98	-0.003328
15APR	105	9:58:51.86	9.981072	2.392330	0:00:02.39	0.000665
16APR	106	10:20:07.90	10.335529	16.405849	0:00:16.41	0.004557
17APR	107	10:41:13.70	10.687138	30.044245	0:00:30.04	0.008346
18APR	108	11:02:08.90	11.035805	43.293303	0:00:43.29	0.012026
19APR	109	11:22:53.18	11.381438	56.139208	0:00:56.14	0.015594
20APR	110	11:43:26.20	11.723943	68.568563	0:01:08.57	0.019047
21APR	111	12:03:47.63	12.063230	80.568406	0:01:20.57	0.022380
22APR	112	12:23:57.14	12.399205	92.126225	0:01:32.13	0.025591
23APR	113	12:43:54.40	12.731778	103.229977	0:01:43.23	0.028675
24APR	114	13:03:39.08	13.060857	113.868104	0:01:53.87	0.031630
25APR	115	13:23:10.86	13.386350	124.029553	0:02:04.03	0.034453
26APR	116	13:42:29.40	13.708168	133.703792	0:02:13.70	0.037140
27APR	117	14:01:34.39	14.026219	142.880827	0:02:22.88	0.039689
28APR	118	14:20:25.50	14.340415	151.551223	0:02:31.55	0.042098

29APR	119	14:39:02.40	14.650666	159.706120	0:02:39.71	0.044363
30APR	120	14:57:24.78	14.956883	167.337251	0:02:47.34	0.046483
01MAY	121	15:15:32.32	15.258977	174.436959	0:02:54.44	0.048455
02MAY	122	15:33:24.70	15.556860	180.998215	0:03:01.00	0.050277
03MAY	123	15:51:01.60	15.850445	187.014636	0:03:07.01	0.051949
04MAY	124	16:08:22.72	16.139646	192.480501	0:03:12.48	0.053467
05MAY	125	16:25:27.75	16.424375	197.390768	0:03:17.39	0.054831
06MAY	126	16:42:16.37	16.704548	201.741088	0:03:21.74	0.056039
07MAY	127	16:58:48.28	16.980079	205.527821	0:03:25.53	0.057091
08MAY	128	17:15:03.18	17.250884	208.748053	0:03:28.75	0.057986
09MAY	129	17:31:00.77	17.516881	211.399604	0:03:31.40	0.058722
10MAY	130	17:46:40.75	17.777986	213.481047	0:03:33.48	0.059300
11MAY	131	18:02:02.82	18.034118	214.991718	0:03:34.99	0.059720
12MAY	132	18:17:06.70	18.285195	215.931724	0:03:35.93	0.059981
13MAY	133	18:31:52.10	18.531140	216.301957	0:03:36.30	0.060084
14MAY	134	18:46:18.74	18.771872	216.104100	0:03:36.10	0.060029
15MAY	135	19:00:26.33	19.007313	215.340637	0:03:35.34	0.059817
16MAY	136	19:14:14.60	19.237389	214.014858	0:03:34.01	0.059449
17MAY	137	19:27:43.28	19.462022	212.130862	0:03:32.13	0.058925
18MAY	138	19:40:52.10	19.681139	209.693567	0:03:29.69	0.058248
19MAY	139	19:53:40.80	19.894667	206.708703	0:03:26.71	0.057419
20MAY	140	20:06:09.13	20.102536	203.182822	0:03:23.18	0.056440
21MAY	141	20:18:16.82	20.304674	199.123290	0:03:19.12	0.055312
22MAY	142	20:30:03.65	20.501013	194.538289	0:03:14.54	0.054038
23MAY	143	20:41:29.35	20.691486	189.436812	0:03:09.44	0.052621
24MAY	144	20:52:33.70	20.876028	183.828656	0:03:03.83	0.051064
25MAY	145	21:03:16.47	21.054575	177.724416	0:02:57.72	0.049368
26MAY	146	21:13:37.43	21.227065	171.135475	0:02:51.14	0.047538
27MAY	147	21:23:36.38	21.393438	164.073996	0:02:44.07	0.045576
28MAY	148	21:33:13.09	21.553635	156.552905	0:02:36.55	0.043487
29MAY	149	21:42:27.36	21.707601	148.585881	0:02:28.59	0.041274
30MAY	150	21:51:19.01	21.855279	140.187340	0:02:20.19	0.038941
31MAY	151	21:59:47.83	21.996619	131.372413	0:02:11.37	0.036492
01JUN	152	22:07:53.65	22.131569	122.156933	0:02:02.16	0.033932
02JUN	153	22:15:36.29	22.260081	112.557410	0:01:52.56	0.031266
03JUN	154	22:22:55.59	22.382109	102.591010	0:01:42.59	0.028498
04JUN	155	22:29:51.39	22.497609	92.275531	0:01:32.28	0.025632
05JUN	156	22:36:23.55	22.606540	81.629377	0:01:21.63	0.022675
06JUN	157	22:42:31.91	22.708863	70.671531	0:01:10.67	0.019631
07JUN	158	22:48:16.34	22.804540	59.421527	0:00:59.42	0.016506
08JUN	159	22:53:36.73	22.893537	47.899419	0:00:47.90	0.013305
09JUN	160	22:58:32.96	22.975822	36.125751	0:00:36.13	0.010035
10JUN	161	23:03:04.92	23.051366	24.121524	0:00:24.12	0.006700
11JUN	162	23:07:12.51	23.120143	11.908163	0:00:11.91	0.003308
12JUN	163	23:10:55.66	23.182126	-0.492522	-0:00:00.49	-0.000137
13JUN	164	23:14:14.27	23.237296	-13.058364	-0:00:13.06	-0.003627
14JUN	165	23:17:08.28	23.285633	-25.766883	-0:00:25.77	-0.007157
15JUN	166	23:19:37.63	23.327121	-38.595319	-0:00:38.60	-0.010721
16JUN	167	23:21:42.28	23.361745	-51.520673	-0:00:51.52	-0.014311
17JUN	168	23:23:22.18	23.389496	-64.519744	-0:01:04.52	-0.017922
18JUN	169	23:24:37.31	23.410364	-77.569172	-0:01:17.57	-0.021547
19JUN	170	23:25:27.64	23.424345	-90.645472	-0:01:30.65	-0.025179
20JUN	171	23:25:53.16	23.431435	-103.725079	-0:01:43.73	-0.028813
21JUN	172	23:25:53.88	23.431634	-116.784389	-0:01:56.78	-0.032440
22JUN	173	23:25:29.81	23.424946	-129.799796	-0:02:09.80	-0.036055
23JUN	174	23:24:40.95	23.411376	-142.747735	-0:02:22.75	-0.039652
24JUN	175	23:23:27.35	23.390931	-155.604723	-0:02:35.60	-0.043224
25JUN	176	23:21:49.04	23.363623	-168.347397	-0:02:48.35	-0.046763
26JUN	177	23:19:46.07	23.329465	-180.952558	-0:03:00.95	-0.050265
27JUN	178	23:17:18.51	23.288474	-193.397206	-0:03:13.40	-0.053721
28JUN	179	23:14:26.40	23.240668	-205.658583	-0:03:25.66	-0.057127
29JUN	180	23:11:09.85	23.186069	-217.714211	-0:03:37.71	-0.060476

30JUN	181	23:07:28.92	23.124701	-229.541925	-0:03:49.54	-0.063762
01JUL	182	23:03:23.73	23.056590	-241.119919	-0:04:01.12	-0.066978
02JUL	183	22:58:54.36	22.981767	-252.426774	-0:04:12.43	-0.070119
03JUL	184	22:54:00.94	22.900262	-263.441497	-0:04:23.44	-0.073178
04JUL	185	22:48:43.60	22.812110	-274.143554	-0:04:34.14	-0.076151
05JUL	186	22:43:02.45	22.717347	-284.512903	-0:04:44.51	-0.079031
06JUL	187	22:36:57.65	22.616013	-294.530026	-0:04:54.53	-0.081814
07JUL	188	22:30:29.33	22.508147	-304.175959	-0:05:04.18	-0.084493
08JUL	189	22:23:37.66	22.393795	-313.432320	-0:05:13.43	-0.087065
09JUL	190	22:16:22.81	22.273001	-322.281339	-0:05:22.28	-0.089523
10JUL	191	22:08:44.93	22.145814	-330.705880	-0:05:30.71	-0.091863
11JUL	192	22:00:44.22	22.012283	-338.689469	-0:05:38.69	-0.094080
12JUL	193	21:52:20.85	21.872460	-346.216315	-0:05:46.22	-0.096171
13JUL	194	21:43:35.04	21.726399	-353.271332	-0:05:53.27	-0.098131
14JUL	195	21:34:26.96	21.574155	-359.840157	-0:05:59.84	-0.099956
15JUL	196	21:24:56.84	21.415788	-365.909169	-0:06:05.91	-0.101641
16JUL	197	21:15:04.88	21.251355	-371.465506	-0:06:11.47	-0.103185
17JUL	198	21:04:51.31	21.080918	-376.497075	-0:06:16.50	-0.104583
18JUL	199	20:54:16.35	20.904540	-380.992570	-0:06:20.99	-0.105831
19JUL	200	20:43:20.23	20.722286	-384.941479	-0:06:24.94	-0.106928
20JUL	201	20:32:03.19	20.534221	-388.334095	-0:06:28.33	-0.107871
21JUL	202	20:20:25.48	20.340412	-391.161520	-0:06:31.16	-0.108656
22JUL	203	20:08:27.34	20.140929	-393.415675	-0:06:33.42	-0.109282
23JUL	204	19:56:09.03	19.935841	-395.089303	-0:06:35.09	-0.109747
24JUL	205	19:43:30.79	19.725221	-396.175966	-0:06:36.18	-0.110049
25JUL	206	19:30:32.90	19.509140	-396.670053	-0:06:36.67	-0.110186
26JUL	207	19:17:15.62	19.287673	-396.566774	-0:06:36.57	-0.110157
27JUL	208	19:03:39.22	19.060894	-395.862159	-0:06:35.86	-0.109962
28JUL	209	18:49:43.97	18.828880	-394.553053	-0:06:34.55	-0.109598
29JUL	210	18:35:30.14	18.591707	-392.637111	-0:06:32.64	-0.109066
30JUL	211	18:20:58.03	18.349453	-390.112793	-0:06:30.11	-0.108365
31JUL	212	18:06:07.91	18.102198	-386.979352	-0:06:26.98	-0.107494
01AUG	213	17:51:00.07	17.850020	-383.236826	-0:06:23.24	-0.106455
02AUG	214	17:35:34.80	17.593000	-378.886029	-0:06:18.89	-0.105246
03AUG	215	17:19:52.39	17.331219	-373.928538	-0:06:13.93	-0.103869
04AUG	216	17:03:53.13	17.064760	-368.366678	-0:06:08.37	-0.102324
05AUG	217	16:47:37.33	16.793703	-362.203511	-0:06:02.20	-0.100612
06AUG	218	16:31:05.28	16.518133	-355.442822	-0:05:55.44	-0.098734
07AUG	219	16:14:17.28	16.238133	-348.089099	-0:05:48.09	-0.096691
08AUG	220	15:57:13.63	15.953787	-340.147520	-0:05:40.15	-0.094485
09AUG	221	15:39:54.65	15.665180	-331.623939	-0:05:31.62	-0.092118
10AUG	222	15:22:20.63	15.372396	-322.524862	-0:05:22.52	-0.089590
11AUG	223	15:04:31.88	15.075521	-312.857433	-0:05:12.86	-0.086905
12AUG	224	14:46:28.71	14.774641	-302.629416	-0:05:02.63	-0.084064
13AUG	225	14:28:11.43	14.469841	-291.849175	-0:04:51.85	-0.081069
14AUG	226	14:09:40.35	14.161209	-280.525656	-0:04:40.53	-0.077924
15AUG	227	13:50:55.79	13.848831	-268.668369	-0:04:28.67	-0.074630
16AUG	228	13:31:58.06	13.532793	-256.287366	-0:04:16.29	-0.071191
17AUG	229	13:12:47.46	13.213184	-243.393225	-0:04:03.39	-0.067609
18AUG	230	12:53:24.33	12.890090	-229.997029	-0:03:50.00	-0.063888
19AUG	231	12:33:48.96	12.563600	-216.110349	-0:03:36.11	-0.060031
20AUG	232	12:14:01.68	12.233800	-201.745224	-0:03:21.75	-0.056040
21AUG	233	11:54:02.81	11.900780	-186.914144	-0:03:06.91	-0.051921
22AUG	234	11:33:52.65	11.564626	-171.630029	-0:02:51.63	-0.047675
23AUG	235	11:13:31.54	11.225428	-155.906216	-0:02:35.91	-0.043307
24AUG	236	10:52:59.78	10.883274	-139.756437	-0:02:19.76	-0.038821
25AUG	237	10:32:17.71	10.538252	-123.194806	-0:02:03.19	-0.034221
26AUG	238	10:11:25.62	10.190451	-106.235801	-0:01:46.24	-0.029510
27AUG	239	9:50:23.86	9.839960	-88.894247	-0:01:28.89	-0.024693
28AUG	240	9:29:12.72	9.486868	-71.185304	-0:01:11.19	-0.019774
29AUG	241	9:07:52.55	9.131263	-53.124448	-0:00:53.12	-0.014757
30AUG	242	8:46:23.65	8.773236	-34.727461	-0:00:34.73	-0.009647

31AUG	243	8:24:46.35	8.412874	-16.010415	-0:00:16.01	-0.004447
01SEP	244	8:03:00.96	8.050268	3.010338	0:00:03.01	0.000836
02SEP	245	7:41:07.83	7.685507	22.318182	0:00:22.32	0.006199
03SEP	246	7:19:07.25	7.318680	41.896248	0:00:41.90	0.011638
04SEP	247	6:56:59.56	6.949878	61.727421	0:01:01.73	0.017147
05SEP	248	6:34:45.08	6.579190	81.794356	0:01:21.79	0.022721
06SEP	249	6:12:24.14	6.206705	102.079485	0:01:42.08	0.028355
07SEP	250	5:49:57.06	5.832515	122.565027	0:02:02.57	0.034046
08SEP	251	5:27:24.15	5.456710	143.232996	0:02:23.23	0.039787
09SEP	252	5:04:45.76	5.079379	164.065212	0:02:44.07	0.045574
10SEP	253	4:42:02.21	4.700613	185.043307	0:03:05.04	0.051401
11SEP	254	4:19:13.81	4.320504	206.148732	0:03:26.15	0.057264
12SEP	255	3:56:20.91	3.939142	227.362767	0:03:47.36	0.063156
13SEP	256	3:33:23.83	3.556618	248.666527	0:04:08.67	0.069074
14SEP	257	3:10:22.89	3.173025	270.040968	0:04:30.04	0.075011
15SEP	258	2:47:18.43	2.788453	291.466895	0:04:51.47	0.080963
16SEP	259	2:24:10.78	2.402994	312.924968	0:05:12.92	0.086924
17SEP	260	2:01:00.27	2.016741	334.395708	0:05:34.40	0.092888
18SEP	261	1:37:47.23	1.629786	355.859505	0:05:55.86	0.098850
19SEP	262	1:14:32.00	1.242222	377.296624	0:06:17.30	0.104805
20SEP	263	0:51:14.91	0.854143	398.687211	0:06:38.69	0.110746
21SEP	264	0:27:56.30	0.465640	420.011301	0:07:00.01	0.116670
22SEP	265	0:04:36.51	0.076809	441.248826	0:07:21.25	0.122569
23SEP	266	-0:18:44.12	-0.312257	462.379620	0:07:42.38	0.128439
24SEP	267	-0:42:05.27	-0.701463	483.383430	0:08:03.38	0.134273
25SEP	268	-1:05:26.57	-1.090714	504.239924	0:08:24.24	0.140067
26SEP	269	-1:28:47.70	-1.479916	524.928697	0:08:44.93	0.145814
27SEP	270	-1:52:08.30	-1.868971	545.429284	0:09:05.43	0.151508
28SEP	271	-2:15:28.03	-2.257785	565.721169	0:09:25.72	0.157145
29SEP	272	-2:38:46.54	-2.646261	585.783797	0:09:45.78	0.162718
30SEP	273	-3:02:03.48	-3.034300	605.596583	0:10:05.60	0.168221
01OCT	274	-3:25:18.51	-3.421807	625.138927	0:10:25.14	0.173650
02OCT	275	-3:48:31.26	-3.808683	644.390225	0:10:44.39	0.178997
03OCT	276	-4:11:41.39	-4.194829	663.329887	0:11:03.33	0.184258
04OCT	277	-4:34:48.53	-4.580147	681.937346	0:11:21.94	0.189427
05OCT	278	-4:57:52.33	-4.964536	700.192081	0:11:40.19	0.194498
06OCT	279	-5:20:52.43	-5.347897	718.073628	0:11:58.07	0.199465
07OCT	280	-5:43:48.47	-5.730129	735.561600	0:12:15.56	0.204323
08OCT	281	-6:06:40.07	-6.111131	752.635707	0:12:32.64	0.209065
09OCT	282	-6:29:26.89	-6.490802	769.275775	0:12:49.28	0.213688
10OCT	283	-6:52:08.54	-6.869038	785.461765	0:13:05.46	0.218184
11OCT	284	-7:14:44.65	-7.245737	801.173797	0:13:21.17	0.222548
12OCT	285	-7:37:14.86	-7.620795	816.392175	0:13:36.39	0.226776
13OCT	286	-7:59:38.79	-7.994109	831.097403	0:13:51.10	0.230860
14OCT	287	-8:21:56.07	-8.365574	845.270218	0:14:05.27	0.234797
15OCT	288	-8:44:06.31	-8.735085	858.891611	0:14:18.89	0.238581
16OCT	289	-9:06:09.13	-9.102536	871.942855	0:14:31.94	0.242206
17OCT	290	-9:28:04.15	-9.467820	884.405531	0:14:44.41	0.245668
18OCT	291	-9:49:51.00	-9.830832	896.261558	0:14:56.26	0.248962
19OCT	292	-10:11:29.27	-10.191464	907.493219	0:15:07.49	0.252081
20OCT	293	-10:32:58.59	-10.549607	918.083193	0:15:18.08	0.255023
21OCT	294	-10:54:18.55	-10.905154	928.014584	0:15:28.01	0.257782
22OCT	295	-11:15:28.78	-11.257996	937.270951	0:15:37.27	0.260353
23OCT	296	-11:36:28.88	-11.608022	945.836340	0:15:45.84	0.262732
24OCT	297	-11:57:18.45	-11.955125	953.695314	0:15:53.70	0.264915
25OCT	298	-12:17:57.09	-12.299192	960.832988	0:16:00.83	0.266898
26OCT	299	-12:38:24.41	-12.640114	967.235054	0:16:07.24	0.268676
27OCT	300	-12:58:40.01	-12.977780	972.887822	0:16:12.89	0.270247
28OCT	301	-13:18:43.48	-13.312078	977.778244	0:16:17.78	0.271605
29OCT	302	-13:38:34.43	-13.642896	981.893951	0:16:21.89	0.272748
30OCT	303	-13:58:12.44	-13.970123	985.223280	0:16:25.22	0.273673
31OCT	304	-14:17:37.13	-14.293647	987.755312	0:16:27.76	0.274376

01NOV	305	-14:36:48.08	-14.613355	989.479897	0:16:29.48	0.274856
02NOV	306	-14:55:44.88	-14.929135	990.387684	0:16:30.39	0.275108
03NOV	307	-15:14:27.14	-15.240874	990.470158	0:16:30.47	0.275131
04NOV	308	-15:32:54.45	-15.548459	989.719660	0:16:29.72	0.274922
05NOV	309	-15:51:06.40	-15.851779	988.129421	0:16:28.13	0.274480
06NOV	310	-16:09:02.59	-16.150720	985.693587	0:16:25.69	0.273804
07NOV	311	-16:26:42.62	-16.445171	982.407247	0:16:22.41	0.272891
08NOV	312	-16:44:06.07	-16.735019	978.266454	0:16:18.27	0.271741
09NOV	313	-17:01:12.55	-17.020153	973.268252	0:16:13.27	0.270352
10NOV	314	-17:18:01.66	-17.300461	967.410699	0:16:07.41	0.268725
11NOV	315	-17:34:33.00	-17.575833	960.692882	0:16:00.69	0.266859
12NOV	316	-17:50:46.17	-17.846157	953.114942	0:15:53.11	0.264754
13NOV	317	-18:06:40.77	-18.111325	944.678091	0:15:44.68	0.262411
14NOV	318	-18:22:16.42	-18.371227	935.384622	0:15:35.38	0.259829
15NOV	319	-18:37:32.72	-18.625755	925.237930	0:15:25.24	0.257011
16NOV	320	-18:52:29.29	-18.874802	914.242517	0:15:14.24	0.253956
17NOV	321	-19:07:05.74	-19.118261	902.404006	0:15:02.40	0.250668
18NOV	322	-19:21:21.70	-19.356027	889.729147	0:14:49.73	0.247147
19NOV	323	-19:35:16.78	-19.587995	876.225823	0:14:36.23	0.243396
20NOV	324	-19:48:50.63	-19.814065	861.903053	0:14:21.90	0.239418
21NOV	325	-20:02:02.88	-20.034133	846.770989	0:14:06.77	0.235214
22NOV	326	-20:14:53.16	-20.248100	830.840922	0:13:50.84	0.230789
23NOV	327	-20:27:21.13	-20.455868	814.125271	0:13:34.13	0.226146
24NOV	328	-20:39:26.43	-20.657341	796.637580	0:13:16.64	0.221288
25NOV	329	-20:51:08.73	-20.852424	778.392508	0:12:58.39	0.216220
26NOV	330	-21:02:27.69	-21.041024	759.405818	0:12:39.41	0.210946
27NOV	331	-21:13:22.98	-21.223051	739.694365	0:12:19.69	0.205471
28NOV	332	-21:23:54.30	-21.398417	719.276076	0:11:59.28	0.199799
29NOV	333	-21:34:01.33	-21.567036	698.169934	0:11:38.17	0.193936
30NOV	334	-21:43:43.76	-21.728823	676.395957	0:11:16.40	0.187888
01DEC	335	-21:53:01.32	-21.883699	653.975172	0:10:53.98	0.181660
02DEC	336	-22:01:53.71	-22.031585	630.929593	0:10:30.93	0.175258
03DEC	337	-22:10:20.66	-22.172406	607.282187	0:10:07.28	0.168689
04DEC	338	-22:18:21.92	-22.306088	583.056851	0:09:43.06	0.161960
05DEC	339	-22:25:57.23	-22.432563	558.278371	0:09:18.28	0.155077
06DEC	340	-22:33:06.35	-22.551764	532.972394	0:08:52.97	0.148048
07DEC	341	-22:39:49.06	-22.663628	507.165385	0:08:27.17	0.140879
08DEC	342	-22:46:05.14	-22.768094	480.884594	0:08:00.88	0.133579
09DEC	343	-22:51:54.38	-22.865107	454.158008	0:07:34.16	0.126155
10DEC	344	-22:57:16.61	-22.954613	427.014315	0:07:07.01	0.118615
11DEC	345	-23:02:11.62	-23.036562	399.482853	0:06:39.48	0.110967
12DEC	346	-23:06:39.28	-23.110910	371.593570	0:06:11.59	0.103220
13DEC	347	-23:10:39.41	-23.177614	343.376970	0:05:43.38	0.095382
14DEC	348	-23:14:11.89	-23.236636	314.864069	0:05:14.86	0.087462
15DEC	349	-23:17:16.59	-23.287942	286.086340	0:04:46.09	0.079468
16DEC	350	-23:19:53.40	-23.331501	257.075666	0:04:17.08	0.071410
17DEC	351	-23:22:02.23	-23.367287	227.864282	0:03:47.86	0.063296
18DEC	352	-23:23:43.00	-23.395279	198.484728	0:03:18.48	0.055135
19DEC	353	-23:24:55.64	-23.415457	168.969787	0:02:48.97	0.046936
20DEC	354	-23:25:40.11	-23.427808	139.352436	0:02:19.35	0.038709
21DEC	355	-23:25:56.36	-23.432321	109.665789	0:01:49.67	0.030463
22DEC	356	-23:25:44.37	-23.428992	79.943039	0:01:19.94	0.022206
23DEC	357	-23:25:04.15	-23.417819	50.217406	0:00:50.22	0.013949
24DEC	358	-23:23:55.69	-23.398804	20.522077	0:00:20.52	0.005701
25DEC	359	-23:22:19.04	-23.371955	-9.109848	-0:00:09.11	-0.002531
26DEC	360	-23:20:14.21	-23.337281	-38.645410	-0:00:38.65	-0.010735
27DEC	361	-23:17:41.28	-23.294800	-68.051849	-0:01:08.05	-0.018903
28DEC	362	-23:14:40.30	-23.244529	-97.296659	-0:01:37.30	-0.027027
29DEC	363	-23:11:11.37	-23.186493	-126.347638	-0:02:06.35	-0.035097
30DEC	364	-23:07:14.59	-23.120718	-155.172945	-0:02:35.17	-0.043104
31DEC	365	-23:02:50.05	-23.047237	-183.741152	-0:03:03.74	-0.051039