



Merkur- und Venustransite 3000 BC – 7000 AD sowie weitere Planetenkonstellationen

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Kurze Information

Die folgenden astronomischen Tabellen dienen als Zusatzinformation zum Aufsatz „Pyramiden, Planeten und Geheimkammern – Die Planetenkorrelation von Gizeh“ [1]. Eine zukünftige Ergänzung der Daten ist möglich. Die Berechnungen erfolgten mit dem Programm P4 auf der Basis der VSOP87-Theorie. Letztere ist für Merkur, Venus, das Erde-Mond-System und Mars im Zeitintervall zwischen 2000 BC und 6000 AD genauer als eine Bogensekunde [2, S. 311]. Die Genauigkeit nimmt zwar ab für Zeiten weiter in der Zukunft oder in der Vergangenheit, ist aber für die gegebene Anwendung völlig ausreichend (s. a. [3, S. 47 ff.]). Für die Transitberechnung wurde der sehr präzise ermittelte Sonnenradius von 695508 ± 26 km [4] verwendet. Zu Beginn einer Programmausgabe gibt es jeweils eine kurze technische Erklärung. Die Ausgabe wird ohne Änderung, das heißt, wie vom Programm geliefert, wiedergegeben. Für weitere Details siehe [3].

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- [1] Jelitto, H.: Pyramiden, Planeten und Geheimkammern – Die Planetenkorrelation von Gizeh. Hrsg.: Forschungsgesellschaft für Archäologie, Astronautik u. SETI (AAS), Sagenhafte Zeiten 5/15 (2015) 14-21
- [2] Bretagnon, P., Francou, G.: Planetary Theories in Rectangular and Spherical Variables – VSOP87 Solutions. Astronomy and Astrophysics 202 (1988) 309-315
- [3] Jelitto, H.: Planetary Correlation of the Giza Pyramids – P4 Program Description. Publiziert im Internet (2015)
- [4] Brown, T. M., Christensen-Dalsgaard, J.: Accurate Determination of the Solar Photospheric Radius. The Astrophysical Journal 500: L195-L198 (1998)

1. Merkurtransite 3000 BC - 7000 AD

Option 21: Tabelle sämtlicher Merkurtransite zwischen den Jahren 3000 BC und 7000 AD. Kurze Erklärung einiger Bezeichnungen: I, II, „nearest (separation)“, III und IV sind die Transitphasen und P1, P2, „near.“, P3 und P4 die zugehörigen Positionswinkel. Für die entfernte Vergangenheit bzw. Zukunft ist die abnehmende Genauigkeit zu beachten. Die Spalte mit Nummern signifikanter Konstellationen wird durch „co“ gekennzeichnet. Siehe dazu das Buch: „Pyramiden und Planeten“. Es steht „p“ für partiellen (streifenförmigen) oder zentralen Transit. Innerhalb der Daten bedeuten „m“ streifender Transit, „C“ zentraler Transit und „c“ nicht-geozentrischer, zentraler Transit. Ausführliche Details gibt es in „Planetary Correlation of the Giza Pyramids – P4 Program Description“. Hinweis: Die Schnellstart-Option 21 existiert zwar in der P4-Programmversion („3rd edition“), die sich in Vorbereitung befindet, jedoch nicht in der aktuellen Version vom Juni 2015 („2nd edition“). Dennoch kann der Programmablauf mit letzterer Version reproduziert werden, indem die Parameter bei Programmstart einzeln eingegeben werden. Diese sind: 0, 3, 1, 1, 4, 2, 1, -3000., 7000., 1, 2.

P4 output:

```

TRANSITS OF MERCURY
(geocentric transit phases, terrestrial time TT)
< P4-option 21 > (monitor line width minimal 148 characters)

VSOP87C, comb. search, ecliptic of date, all Mercury transits
Period (years) from -3000.00 to 7000.00, Jul./Greg. calendar

co/p  date/  time:  I    II    nearest  III    IV    sep["]  a    P1    P2    P3    P4    semidiameters ["]
=====
9. Oct.-2992  15:56:31  15:58:46  17:56: 6  19:53:26  19:55:40  660.8 /  79.63  79.09  32.02  344.95  344.41  975.29  4.98  -43
4. Apr.-2988  6:20:42  6:23:52  10:24: 7  14:24:18  14:27:28  115.0 /  49.00  48.91  325.94  242.97  242.88  943.78  6.09  -38
3. Oct.-2985  16:34:29  16:36:51  18:28:48  20:20:46  20:23: 7  -695.8 /  166.87  167.47  211.60  255.74  256.33  974.28  4.99  -37
m  7. Apr.-2975  18:26:59  --  18:59:59  --  19:32:58  -940.9 /  138.00  --  145.71  --  153.42  943.36  6.10  -40
5. Oct.-2972  9:17:45  9:19:26  11:56:14  14:33: 3  14:34:45  -208.6 /  134.09  134.22  211.81  289.39  289.52  974.67  4.98  -39
8. Oct.-2959  2:43:12  2:44:55  5:18:40  7:52:26  7:54:10  275.7 /  105.61  105.44  31.96  318.47  318.30  975.01  4.98  -41
10. Oct.-2946  20:57:50  21: 0:27  22:40:22  0:20:16  0:22:53  758.6 /  71.35  70.63  32.05  353.48  352.76  975.30  4.98  -43
5. Apr.-2942  13: 7:51  13:11: 1  17:12:10  21:13:16  21:16:26  -85.7 /  61.05  61.12  145.86  230.60  230.67  943.76  6.09  -38
3. Oct.-2939  21: 7:31  21: 9:36  23:16:26  1:23:18  1:25:23  -595.6 /  159.14  159.59  211.69  263.79  264.25  974.37  4.99  -37

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6.	Oct.-2926	14: 1:10	14: 2:50	16:42:18	19:21:49	19:23:28	-110.4 /	128.34	128.40	211.87	295.34	295.41	974.68	4.98	-39
9.	Oct.-2913	7:34:17	7:36: 4	10: 4: 1	12:31:58	12:33:45	374.0 /	99.57	99.32	32.00	324.68	324.44	974.99	4.98	-41
3.	Apr.-2909	13: 5:45	13:11: 4	15:31:39	17:52:14	17:57:33	762.8 /	2.69	1.67	326.06	290.46	289.44	944.19	6.09	-36
m	2.	Oct.-2906	--	10:35:17	--	--	-982.9 /	--	--	211.56	--	--	973.99	4.99	-35
11.	Oct.-2900	2: 8: 4	2:11:31	3:26:35	4:41:40	4:45: 7	857.2 /	61.11	60.03	32.08	4.14	3.06	975.33	4.98	-43
6.	Apr.-2896	20:15:29	20:18:47	0: 8:50	3:58:50	4: 2: 9	-294.0 /	73.82	74.07	145.77	217.50	217.74	943.72	6.10	-38
5.	Oct.-2893	1:44:19	1:46:14	4: 4:17	6:22:21	6:24:16	-496.4 /	152.22	152.57	211.77	270.98	271.32	974.41	4.99	-37
6.	Oct.-2880	18:46:22	18:48: 1	21:28:29	0: 9: 0	0:10:39	-11.1 /	122.57	122.58	211.94	301.29	301.29	974.77	4.98	-39
9.	Oct.-2867	12:27:50	12:29:43	14:49:44	17: 9:46	17:11:39	472.5 /	93.22	92.89	32.04	331.20	330.87	975.05	4.98	-41
3.	Apr.-2863	19: 7:48	19:11:41	22:26: 7	1:40:31	1:44:25	557.0 /	20.09	19.55	325.97	272.38	271.84	944.12	6.09	-36
2.	Oct.-2860	14:13:35	14:17:32	15:23:19	16:29: 7	16:33: 4	-884.4 /	186.25	187.52	211.65	235.78	237.05	974.03	4.99	-35
12.	Oct.-2854	7:35:46	7:43:55	8:12:20	8:40:45	8:48:54	954.9 /	45.16	42.32	32.10	21.89	19.05	975.31	4.98	-43
7.	Apr.-2850	3:27:51	3:31:33	6:57:11	10:22:48	10:26:30	-496.2 /	87.22	87.68	145.72	203.76	204.22	943.70	6.10	-38
5.	Oct.-2847	6:21:19	6:23: 8	8:49:41	11:16:16	11:18: 5	-397.4 /	145.77	146.04	211.84	277.65	277.91	974.43	4.99	-37
8.	Oct.-2834	23:32: 3	23:33:42	2:13:30	4:53:20	4:55: 0	87.7 /	116.84	116.79	31.99	307.18	307.13	974.76	4.98	-39
10.	Oct.-2821	17:24:44	17:26:46	19:36:17	21:45:49	21:47:51	571.6 /	86.40	85.98	32.08	338.18	337.76	975.10	4.98	-41
5.	Apr.-2817	1:36: 2	1:39:25	5:23:49	9: 8:10	9:11:33	349.0 /	34.34	34.05	325.88	257.71	257.42	944.09	6.09	-36
3.	Oct.-2814	18:33: 5	18:35:53	20:10: 0	21:44: 7	21:46:56	-786.0 /	175.13	175.93	211.73	247.53	248.33	974.02	4.99	-35
7.	Apr.-2804	11:11:33	11:16:18	13:55:39	16:34:58	16:39:43	-706.6 /	103.74	104.58	145.66	186.74	187.58	943.65	6.10	-38
6.	Oct.-2801	11: 1:53	11: 3:37	13:36:25	16: 9:15	16:10:59	-299.3 /	139.69	139.88	211.91	283.93	284.12	974.43	4.98	-37
8.	Oct.-2788	4:19:23	4:21: 4	6:58:30	9:35:58	9:37:39	186.5 /	111.05	110.94	32.03	313.12	313.01	974.79	4.98	-39
11.	Oct.-2775	22:22:49	22:25: 5	0:21: 5	2:17: 5	2:19:21	669.5 /	79.02	78.46	32.10	345.74	345.19	975.11	4.98	-41
5.	Apr.-2771	8: 8:51	8:12: 2	12:10:54	16: 9:42	16:12:53	147.3 /	46.90	46.78	325.80	244.82	244.71	944.03	6.09	-36
4.	Oct.-2768	23: 0:51	23: 3:11	0:56:41	2:50:12	2:52:32	-686.8 /	166.35	166.93	211.81	256.68	257.27	974.09	4.99	-35
8.	Apr.-2758	19:44:33	19:57:13	20:51:41	21:46: 9	21:58:49	-913.6 /	129.76	132.64	145.62	158.59	161.47	943.62	6.10	-38
6.	Oct.-2755	15:42:49	15:44:30	18:21:39	20:58:50	21: 0:31	-200.2 /	133.75	133.88	211.96	290.05	290.17	974.44	4.98	-37
9.	Oct.-2742	9: 9:13	9:10:57	11:44:19	14:17:43	14:19:27	284.1 /	105.21	105.03	32.07	319.10	318.92	974.77	4.98	-39
12.	Oct.-2729	3:27:56	3:30:37	5: 8:25	6:46:13	6:48:54	768.5 /	70.48	69.73	32.12	354.51	353.76	975.12	4.98	-41
6.	Apr.-2725	15: 1:17	15: 4:26	19: 5:56	23: 7:23	23:10:32	-58.9 /	59.30	59.35	145.74	232.13	232.17	943.99	6.09	-36
5.	Oct.-2722	3:32:53	3:34:58	5:42:50	7:50:43	7:52:48	-587.8 /	158.77	159.21	211.88	264.54	264.99	974.11	4.98	-35
7.	Oct.-2709	20:25:43	20:27:22	23: 7: 4	1:46:48	1:48:27	-101.7 /	127.97	128.03	212.01	295.99	296.06	974.49	4.98	-37
9.	Oct.-2696	14: 1:23	14: 3:11	16:30:30	18:57:50	18:59:37	383.5 /	99.05	98.80	32.10	325.39	325.14	974.82	4.98	-39
3.	Apr.-2692	15:10: 6	15:15:49	17:26: 1	19:36:12	19:41:55	790.0 /	359.71	358.58	325.92	293.25	292.12	944.39	6.09	-34
m	3.	Oct.-2689	16:54: 0	--	17: 2: 8	17:10:16	-977.5 /	208.91	--	211.77	--	214.64	973.75	4.99	-33
12.	Oct.-2683	8:38:34	8:42:10	9:54:17	11: 6:25	11:10: 0	866.3 /	60.02	58.88	32.13	5.38	4.25	975.10	4.98	-41
7.	Apr.-2679	21:59:36	22: 2:52	1:55:19	5:47:43	5:50:59	-262.0 /	71.70	71.91	145.68	219.45	219.66	943.93	6.09	-36
5.	Oct.-2676	8: 6:52	8: 8:47	10:27:33	12:46:21	12:48:16	-489.6 /	151.93	152.27	211.94	271.61	271.95	974.14	4.98	-35
8.	Oct.-2663	1: 9:36	1:11:15	3:51:48	6:32:23	6:34: 2	-2.9 /	122.22	122.22	212.07	301.89	301.89	974.49	4.98	-37
10.	Oct.-2650	18:56:19	18:58:13	21:17:22	23:36:32	23:38:25	482.1 /	92.64	92.31	32.12	331.93	331.60	974.84	4.98	-39
5.	Apr.-2646	21: 6:49	21:10:49	0:19:24	3:27:56	3:31:56	585.8 /	17.80	17.21	325.84	274.46	273.88	944.37	6.09	-34
3.	Oct.-2643	20:36:42	20:40:31	21:48:54	22:57:17	23: 1: 6	-877.1 /	185.50	186.72	211.85	236.97	238.19	973.79	4.99	-33
13.	Oct.-2637	14:10:54	14:22:26	14:39:37	14:56:48	15: 8:21	964.6 /	42.36	38.29	32.14	25.98	21.91	975.16	4.98	-41
8.	Apr.-2633	5:20:41	5:24:19	8:53:34	12:22:48	12:26:26	-472.1 /	85.43	85.86	145.63	205.40	205.83	943.88	6.10	-36
6.	Oct.-2630	12:45: 2	12:46:50	15:13:54	17:41: 0	17:42:48	-391.4 /	145.55	145.80	211.99	278.18	278.44	974.17	4.98	-35

9.	Oct.-2617	5:56:47	5:58:26	8:38:11	11:17:57	11:19:36	95.6 /	116.49	116.43	32.09	307.75	307.69	974.53	4.98	-37
11.	Oct.-2604	23:51:11	23:53:14	2: 1:45	4:10:18	4:12:21	579.9 /	85.85	85.42	32.14	338.85	338.42	974.85	4.98	-39
5.	Apr.-2600	3:22:55	3:26:21	7: 6:49	10:47:13	10:50:39	383.3 /	32.00	31.67	325.77	259.87	259.54	944.31	6.09	-34
5.	Oct.-2597	0:56:42	0:59:27	2:35:24	4:11:21	4:14: 6	-778.1 /	174.55	175.33	211.91	248.49	249.27	973.85	4.99	-33
8.	Apr.-2587	12:52: 1	12:56:32	15:44:36	18:32:38	18:37: 9	-675.4 /	100.91	101.67	145.59	189.51	190.27	943.88	6.10	-36
6.	Oct.-2584	17:24:48	17:26:32	19:59:52	22:33:13	22:34:57	-290.5 /	139.29	139.47	212.04	284.60	284.79	974.22	4.98	-35
9.	Oct.-2571	10:45:36	10:47:17	13:24:32	16: 1:49	16: 3:30	193.7 /	110.71	110.59	32.12	313.64	313.52	974.55	4.98	-37
12.	Oct.-2558	4:51: 9	4:53:26	6:48: 6	8:42:47	8:45: 5	677.8 /	78.38	77.81	32.14	346.48	345.91	974.88	4.98	-39
6.	Apr.-2554	10: 1:29	10: 4:40	14: 1:57	17:59:10	18: 2:22	177.9 /	44.93	44.78	325.71	246.63	246.49	944.30	6.09	-34
5.	Oct.-2551	5:23:51	5:26:10	7:21: 5	9:16: 1	9:18:19	-678.4 /	165.84	166.41	211.97	257.53	258.10	973.84	4.98	-33
9.	Apr.-2541	21: 9:16	21:18:14	22:39:32	0: 0:50	0: 9:48	-883.4 /	123.99	125.96	145.56	165.16	167.14	943.81	6.10	-36
8.	Oct.-2538	22: 7:12	22: 8:53	0:46:24	3:23:55	3:25:37	-191.9 /	133.38	133.49	212.08	290.66	290.78	974.26	4.98	-35
10.	Oct.-2525	15:36:26	15:38:10	18:11: 5	20:44: 2	20:45:45	293.9 /	104.68	104.49	32.14	319.78	319.60	974.62	4.98	-37
12.	Oct.-2512	9:54:37	9:57:20	11:33:23	13: 9:25	13:12: 9	776.6 /	69.73	68.95	32.15	355.34	354.56	974.92	4.98	-39
6.	Apr.-2508	16:50: 9	16:53:18	20:54:57	0:56:33	0:59:42	-28.4 /	57.38	57.40	145.65	233.91	233.94	944.23	6.09	-34
6.	Oct.-2505	9:55:35	9:57:38	12: 6:28	14:15:18	14:17:22	-580.6 /	158.39	158.83	212.02	265.21	265.64	973.88	4.98	-33
8.	Oct.-2492	2:50:23	2:52: 3	5:31:57	8:11:54	8:13:33	-92.8 /	127.54	127.60	212.11	296.62	296.68	974.26	4.98	-35
10.	Oct.-2479	20:29:12	20:31: 0	22:57:42	1:24:25	1:26:13	392.6 /	98.52	98.26	32.15	326.04	325.78	974.61	4.98	-37
4.	Apr.-2475	17:16:37	17:22:52	19:21: 3	21:19:13	21:25:28	818.0 /	356.46	355.18	325.81	296.44	295.16	944.66	6.08	-32
m	3.	Oct.-2472	23: 3:33	--	23:26:16	--	-968.9 /	203.92	--	211.94	--	219.96	973.48	4.99	-31
13.	Oct.-2466	15: 5:50	15: 9:34	16:18:31	17:27:28	17:31:13	875.7 /	58.81	57.62	32.14	6.66	5.46	974.98	4.98	-39
8.	Apr.-2462	23:56:49	0: 0: 3	3:54: 2	7:47:57	7:51:12	-237.9 /	70.12	70.31	145.62	220.92	221.12	944.17	6.09	-34
6.	Oct.-2459	14:31: 1	14:32:55	16:52:29	19:12: 6	19:14: 0	-481.8 /	151.54	151.87	212.06	272.25	272.59	973.89	4.98	-33
9.	Oct.-2446	7:37:24	7:39: 3	10:19:40	13: 0:19	13: 1:58	5.5 /	121.81	121.81	32.13	302.46	302.46	974.28	4.98	-35
12.	Oct.-2433	1:22: 8	1:24: 2	3:42:22	6: 0:43	6: 2:37	491.0 /	92.07	91.73	32.15	332.58	332.24	974.64	4.98	-37
6.	Apr.-2429	23: 4:41	23: 8:48	2:11: 1	5:13:12	5:17:19	614.8 /	15.46	14.83	325.75	276.67	276.03	944.58	6.09	-32
5.	Oct.-2426	2:57:49	3: 1:31	4:12:19	5:23: 7	5:26:49	-870.1 /	184.76	185.93	212.00	238.06	239.23	973.53	4.98	-31
m	13.	Oct.-2420	20:45:17	--	21: 3:11	21:21: 5	973.9 /	38.47	--	32.12	--	25.78	974.96	4.98	-39
8.	Apr.-2416	7: 4:58	7: 8:32	10:42: 6	14:15:38	14:19:12	-441.0 /	83.24	83.63	145.58	207.54	207.93	944.14	6.09	-34
7.	Oct.-2413	19: 9:15	19:11: 3	21:38:54	0: 6:46	0: 8:34	-381.4 /	145.02	145.27	212.10	278.92	279.17	973.94	4.98	-33
9.	Oct.-2400	12:24:10	12:25:49	15: 5:28	17:45: 8	17:46:48	104.7 /	116.01	115.95	32.15	308.35	308.29	974.28	4.98	-35
12.	Oct.-2387	6:18:22	6:20:26	8:27:55	10:35:24	10:37:29	588.5 /	85.23	84.79	32.15	339.51	339.07	974.65	4.98	-37
6.	Apr.-2383	5:23:15	5:26:44	9: 3:41	12:40:36	12:44: 4	410.8 /	30.10	29.74	325.69	261.65	261.29	944.57	6.09	-32
5.	Oct.-2380	7:17:37	7:20:20	8:57:52	10:35:24	10:38: 7	-770.9 /	174.02	174.78	212.04	249.31	250.07	973.54	4.98	-31
9.	Apr.-2370	14:37:41	14:42: 1	17:37: 0	20:31:58	20:36:18	-648.2 /	98.58	99.28	145.56	191.85	192.55	944.06	6.10	-34
8.	Oct.-2367	23:50:24	23:52: 7	2:25:55	4:59:45	5: 1:29	-282.7 /	138.91	139.09	212.13	285.17	285.35	973.96	4.98	-33
10.	Oct.-2354	17:12:21	17:14: 2	19:51:32	22:28: 0	22:29:41	203.7 /	110.15	110.03	32.16	314.29	314.16	974.35	4.98	-35
13.	Oct.-2341	11:17:14	11:19:33	13:12:32	15: 5:32	15: 7:51	688.2 /	77.52	76.93	32.14	347.35	346.77	974.68	4.98	-37
7.	Apr.-2337	11:55: 1	11:58:13	15:53:42	19:49: 6	19:52:19	207.1 /	43.08	42.91	325.65	248.39	248.23	944.49	6.09	-32
6.	Oct.-2334	11:46:24	11:48:41	13:44:34	15:40:29	15:42:47	-672.6 /	165.50	166.06	212.08	258.11	258.67	973.63	4.98	-31
10.	Apr.-2324	22:35:11	22:42:29	0:24: 9	2: 5:49	2:13: 7	-851.3 /	119.18	120.73	145.55	170.37	171.92	944.04	6.10	-34
9.	Oct.-2321	4:31:39	4:33:20	7:11: 9	9:48:59	9:50:40	-184.6 /	133.01	133.13	212.15	291.17	291.28	974.00	4.98	-33
11.	Oct.-2308	22: 1:27	22: 3:11	0:35:43	3: 8:17	3:10: 1	302.0 /	104.20	104.01	32.16	320.31	320.12	974.35	4.98	-35
13.	Oct.-2295	16:20:56	16:23:43	17:57:36	19:31:28	19:34:15	786.2 /	68.76	67.96	32.12	356.29	355.49	974.70	4.98	-37

C	7.	Apr.-2291	18:42:17	18:45:25	22:46:58	2:48:27	2:51:35	1.4	55.54	55.54	325.63	235.70	235.69	944.45	6.09	-32
	6.	Oct.-2288	16:19:13	16:21:16	18:31:9	20:41:4	20:43:7	-572.3	157.90	158.33	212.12	265.90	266.33	973.65	4.98	-31
	9.	Oct.-2275	9:16:44	9:18:24	11:58:29	14:38:36	14:40:16	-85.7	127.18	127.23	212.16	297.09	297.14	974.06	4.98	-33
	12.	Oct.-2262	2:52:14	2:54:3	5:20:15	7:46:29	7:48:18	399.9	98.06	97.79	32.15	326.52	326.25	974.41	4.98	-35
	5.	Apr.-2258	19:22:44	19:29:51	21:12:34	22:55:16	23:2:23	849.1	352.52	351.00	325.75	300.49	298.98	944.91	6.08	-30
	5.	Oct.-2255	5:20:8	5:30:59	5:50:24	6:9:50	6:20:40	-961.2	201.36	205.15	212.07	218.98	222.77	973.25	4.98	-29
	14.	Oct.-2245	21:32:14	21:36:9	22:42:4	23:47:59	23:51:54	884.0	57.64	56.38	32.10	7.82	6.56	974.70	4.98	-37
	9.	Apr.-2245	1:34:21	1:37:34	5:33:34	9:29:31	9:32:44	-202.0	67.86	68.03	145.59	223.16	223.32	944.43	6.09	-32
	7.	Oct.-2242	20:56:9	20:58:3	23:18:34	1:39:7	1:41:0	-472.4	151.00	151.33	212.14	272.96	273.28	973.70	4.98	-31
	10.	Oct.-2229	14:1:45	14:3:24	16:44:3	19:24:45	19:26:24	15.1	121.29	121.28	32.16	303.06	303.05	974.08	4.98	-33
	12.	Oct.-2216	7:46:33	7:48:28	10:6:4	12:23:41	12:25:36	498.8	91.53	91.18	32.14	333.10	332.76	974.43	4.98	-35
	6.	Apr.-2212	1:4:7	1:8:24	4:3:34	6:58:42	7:2:58	644.5	13.04	12.35	325.70	279.05	278.36	944.89	6.08	-30
	6.	Oct.-2209	9:19:44	9:23:19	10:36:34	11:49:49	11:53:24	-862.6	183.96	185.08	212.10	239.12	240.25	973.27	4.98	-29
m	15.	Oct.-2203	--	--	3:29:20	--	--	982.6	--	--	32.07	--	--	974.77	4.98	-37
	9.	Apr.-2199	8:50:8	8:53:38	12:31:3	16:8:27	16:11:56	-410.4	81.16	81.52	145.58	209.64	210.00	944.38	6.09	-32
	8.	Oct.-2196	1:35:46	1:37:33	4:6:4	6:34:37	6:36:25	-372.8	144.55	144.79	212.16	279.53	279.77	973.70	4.98	-31
	10.	Oct.-2183	18:48:51	18:50:31	21:30:3	0:9:38	0:11:18	113.8	115.49	115.42	32.17	308.91	308.84	974.12	4.98	-33
	13.	Oct.-2170	12:43:57	12:46:2	14:52:6	16:58:10	17:0:15	599.8	84.36	83.91	32.12	340.34	339.88	974.46	4.98	-35
	7.	Apr.-2166	7:18:48	7:22:20	10:55:11	14:27:58	14:31:30	440.6	28.07	27.68	325.67	263.65	263.26	944.77	6.09	-30
	6.	Oct.-2163	13:42:15	13:44:55	15:24:8	17:3:22	17:6:3	-763.2	173.40	174.14	212.13	250.13	250.87	973.33	4.98	-29
	10.	Apr.-2153	16:14:45	16:18:54	19:21:12	22:23:27	22:27:36	-616.7	96.03	96.67	145.57	194.48	195.12	944.33	6.10	-32
	9.	Oct.-2150	6:14:53	6:16:37	8:50:51	11:25:8	11:26:52	-275.1	138.49	138.67	212.17	285.67	285.84	973.74	4.98	-31
	12.	Oct.-2137	23:36:41	23:38:23	2:15:4	4:51:48	4:53:29	213.0	109.59	109.46	32.16	314.85	314.72	974.10	4.98	-33
	13.	Oct.-2124	17:45:19	17:47:40	19:39:1	21:30:22	21:32:44	698.0	76.65	76.05	32.09	348.14	347.54	974.47	4.98	-35
	7.	Apr.-2120	13:50:27	13:53:41	17:47:13	21:40:41	21:43:55	234.6	41.35	41.17	325.64	250.11	249.92	944.74	6.09	-30
	7.	Oct.-2117	18:10:37	18:12:53	20:10:15	22:7:39	22:9:55	-663.5	164.85	165.40	212.15	258.91	259.46	973.34	4.98	-29
	11.	Apr.-2107	0:14:36	0:21:3	2:16:32	4:12:0	4:18:27	-824.4	115.75	117.08	145.58	174.09	175.41	944.25	6.10	-32
	9.	Oct.-2104	10:56:51	10:58:32	13:36:42	16:14:54	16:16:35	-175.6	132.51	132.62	212.18	291.73	291.84	973.77	4.98	-31
	12.	Oct.-2091	4:26:25	4:28:9	7:0:16	9:32:24	9:34:9	310.8	103.64	103.44	32.14	320.84	320.64	974.14	4.98	-33
	15.	Oct.-2078	22:49:28	22:52:19	0:23:53	1:55:27	1:58:18	796.0	67.70	66.87	32.06	357.25	356.42	974.48	4.98	-35
	9.	Apr.-2074	20:28:41	20:31:49	0:32:59	4:34:5	4:37:13	32.6	53.66	53.63	325.62	237.61	237.58	944.69	6.09	-30
	8.	Oct.-2071	22:43:40	22:45:42	0:56:35	3:7:30	3:9:32	-564.6	157.41	157.83	212.17	266.51	266.93	973.40	4.98	-29
	10.	Oct.-2058	15:39:40	15:41:19	18:21:37	21:1:57	21:3:37	-75.7	126.60	126.65	212.17	297.69	297.73	973.79	4.98	-31
	13.	Oct.-2045	9:18:21	9:20:10	11:45:39	14:11:10	14:12:59	410.0	97.37	97.10	32.12	327.14	326.87	974.14	4.98	-33
	6.	Apr.-2041	21:28:23	21:36:58	23:0:36	0:24:14	0:32:48	880.5	347.97	346.08	325.72	305.37	303.48	945.16	6.08	-28
	6.	Oct.-2038	11:39:2	11:47:52	12:13:59	12:40:6	12:48:56	-955.3	199.77	202.83	212.15	221.46	224.52	973.02	4.98	-27
	15.	Oct.-2032	4:4:20	4:8:29	5:10:34	6:12:40	6:16:48	893.9	56.15	54.80	32.01	9.23	7.88	974.51	4.98	-35
	9.	Apr.-2028	3:26:28	3:29:39	7:26:55	11:24:7	11:27:18	-173.7	66.14	66.28	145.61	224.94	225.08	944.66	6.09	-30
	9.	Oct.-2025	3:19:45	3:21:38	5:42:54	8:4:11	8:6:5	-465.0	150.55	150.87	212.18	273.48	273.80	973.44	4.98	-29
	10.	Oct.-2012	20:25:4	20:26:43	23:7:26	1:48:11	1:49:50	22.7	120.83	120.82	32.16	303.50	303.48	973.82	4.98	-31
	13.	Oct.-1999	14:13:24	14:15:21	16:31:54	18:48:28	18:50:24	509.6	90.73	90.37	32.09	333.80	333.44	974.19	4.98	-33
	7.	Apr.-1995	3:0:11	3:4:39	5:51:15	8:37:47	8:42:16	677.6	10.27	9.51	325.69	281.88	281.12	945.09	6.08	-28
	6.	Oct.-1992	15:42:42	15:46:11	17:2:3	18:17:56	18:21:24	-854.4	183.03	184.11	212.17	240.22	241.30	973.07	4.98	-27
	10.	Apr.-1982	10:30:22	10:33:47	14:14:56	17:56:1	17:59:26	-377.6	79.02	79.34	145.61	211.89	212.21	944.60	6.09	-30

9. Oct.-1979	7:57:10	7:58:58	10:28:1	12:57:6	12:58:53	-366.1 /	144.15	144.39	212.18	279.97	280.21	973.51	4.98	-29
12. Oct.-1966	1:11:59	1:13:39	3:53:5	6:32:34	6:34:14	122.1 /	114.98	114.90	32.14	309.37	309.30	973.86	4.98	-31
14. Oct.-1953	19:11:54	19:14:1	21:18:59	23:23:58	23:26:5	608.2 /	83.65	83.18	32.05	340.91	340.44	974.20	4.98	-33
8. Apr.-1949	9:12:32	9:16:8	12:44:33	16:12:54	16:16:30	470.3 /	26.05	25.62	325.67	265.72	265.30	945.09	6.08	-28
7. Oct.-1946	20:5:7	20:7:45	21:48:51	23:29:59	23:32:36	-754.2 /	172.63	173.35	212.18	251.00	251.72	973.07	4.98	-27
10. Apr.-1936	17:58:12	18:2:13	21:10:56	0:19:38	0:23:38	-586.2 /	93.69	94.28	145.63	196.97	197.56	944.56	6.09	-30
10. Oct.-1933	12:37:52	12:39:35	15:14:23	17:49:13	17:50:56	-265.4 /	137.90	138.07	212.17	286.27	286.43	973.52	4.98	-29
12. Oct.-1920	6:2:20	6:4:1	8:40:27	11:16:54	11:18:36	221.7 /	109.02	108.89	32.11	315.34	315.20	973.92	4.98	-31
15. Oct.-1907	0:11:43	0:14:7	2:3:58	3:53:50	3:56:14	706.6 /	75.82	75.21	32.00	348.80	348.18	974.26	4.98	-33
8. Apr.-1903	15:40:13	15:43:28	19:34:28	23:25:24	23:28:39	266.8 /	39.38	39.16	325.67	252.17	251.95	945.02	6.09	-28
8. Oct.-1900	0:34:18	0:36:33	2:35:19	4:34:7	4:36:22	-654.7 /	164.19	164.73	212.18	259.63	260.17	973.13	4.98	-27
12. Apr.-1890	1:47:59	1:53:46	4:2:51	6:11:54	6:17:42	-793.6 /	112.24	113.38	145.65	177.92	179.06	944.56	6.10	-30
10. Oct.-1887	17:20:41	17:22:22	20:0:55	22:39:30	22:41:11	-165.3 /	131.88	131.98	212.15	292.33	292.43	973.53	4.98	-29
13. Oct.-1874	10:53:30	10:55:15	13:26:47	15:58:20	16:0:5	322.0 /	102.88	102.67	32.08	321.48	321.27	973.91	4.98	-31
16. Oct.-1861	5:17:57	5:20:53	6:50:5	8:19:18	8:22:14	805.7 /	66.59	65.73	31.95	358.17	357.31	974.29	4.98	-33
10. Apr.-1857	22:24:53	22:28:1	2:28:36	6:29:6	6:32:14	59.4 /	52.09	52.04	325.66	239.29	239.24	944.98	6.09	-28
9. Oct.-1854	5:6:35	5:8:36	7:20:35	9:32:35	9:34:36	-555.7 /	156.80	157.21	212.18	267.15	267.56	973.13	4.98	-27
12. Oct.-1841	22:5:43	22:7:22	0:47:52	3:28:25	3:30:4	-66.2 /	126.01	126.05	212.13	298.21	298.25	973.55	4.98	-29
13. Oct.-1828	15:46:48	15:48:38	18:13:19	20:38:2	20:39:52	420.7 /	96.59	96.31	32.04	327.76	327.48	973.95	4.98	-31
7. Apr.-1824	23:43:41	23:54:47	0:56:56	1:59:6	2:10:12	907.3 /	343.27	340.74	325.74	310.74	308.21	945.41	6.08	-26
7. Oct.-1821	17:57:33	18:4:46	18:38:35	19:12:24	19:19:37	-946.3 /	197.62	200.09	212.18	224.27	226.75	972.74	4.98	-25
16. Oct.-1815	10:33:24	10:37:53	11:35:0	12:32:7	12:36:36	905.8 /	54.23	52.75	31.89	11.03	9.55	974.29	4.98	-33
10. Apr.-1811	5:15:36	5:18:46	9:17:7	13:15:25	13:18:34	-143.5 /	64.35	64.47	145.67	226.88	227.00	944.88	6.09	-28
9. Oct.-1808	9:41:45	9:43:37	12:5:45	14:27:54	14:29:47	-456.2 /	149.97	150.28	212.17	274.06	274.37	973.20	4.98	-27
12. Oct.-1795	2:50:43	2:52:22	5:33:6	8:13:53	8:15:33	32.2 /	120.22	120.20	32.10	304.01	303.99	973.58	4.98	-29
14. Oct.-1782	20:41:46	20:43:43	22:59:15	1:14:48	1:16:45	519.8 /	89.92	89.55	31.99	334.42	334.05	973.94	4.98	-31
8. Apr.-1778	5:3:42	5:8:21	7:47:39	10:26:54	10:31:34	703.4 /	8.06	7.24	325.73	284.22	283.40	945.39	6.08	-26
7. Oct.-1775	22:2:57	22:6:20	23:24:35	0:42:50	0:46:13	-846.5 /	182.15	183.19	212.18	241.18	242.21	972.76	4.98	-25
11. Apr.-1765	12:25:21	12:28:43	16:12:20	19:55:54	19:59:16	-353.0 /	77.48	77.77	145.69	213.61	213.91	944.85	6.09	-28
10. Oct.-1762	14:20:33	14:22:19	16:52:6	19:21:54	19:23:41	-356.5 /	143.52	143.75	212.15	280.55	280.78	973.19	4.98	-27
13. Oct.-1749	7:39:24	7:41:5	10:20:22	12:59:41	13:1:21	132.5 /	114.29	114.21	32.07	309.92	309.84	973.63	4.98	-29
15. Oct.-1736	1:37:25	1:39:33	3:43:16	5:47:0	5:49:8	617.7 /	82.81	82.33	31.93	341.52	341.04	973.99	4.98	-31
8. Apr.-1732	11:9:53	11:13:34	14:37:4	18:0:32	18:4:12	500.5 /	23.99	23.53	325.72	267.92	267.46	945.30	6.08	-26
9. Oct.-1729	2:26:13	2:28:48	4:11:29	5:54:10	5:56:46	-746.7 /	171.96	172.66	212.18	251.69	252.39	972.85	4.98	-25
11. Apr.-1719	19:43:0	19:46:53	23:1:8	2:15:20	2:19:13	-557.5 /	91.61	92.15	145.72	199.29	199.83	944.83	6.09	-28
10. Oct.-1716	19:2:28	19:4:11	21:39:28	0:14:49	0:16:32	-256.3 /	137.32	137.48	212.12	286.77	286.93	973.25	4.98	-27
13. Oct.-1703	12:28:22	12:30:4	15:6:9	17:42:16	17:43:58	232.0 /	108.31	108.17	32.02	315.87	315.73	973.61	4.98	-29
16. Oct.-1690	6:37:57	6:40:23	8:28:20	10:16:19	10:18:45	717.2 /	74.77	74.13	31.87	349.60	348.96	974.00	4.98	-31
9. Apr.-1686	17:35:14	17:38:31	21:26:56	1:15:17	1:18:34	295.7 /	37.63	37.38	325.73	254.08	253.84	945.29	6.08	-26
9. Oct.-1683	6:55:29	6:57:43	8:57:49	10:57:57	11:0:10	-646.2 /	163.52	164.05	212.16	260.28	260.80	972.88	4.98	-25
13. Apr.-1673	3:29:58	3:35:19	5:55:9	8:14:58	8:20:19	-765.4 /	109.36	110.38	145.76	181.13	182.16	944.76	6.09	-28
12. Oct.-1670	23:46:50	23:48:31	2:27:24	5:6:20	5:8:1	-156.2 /	131.28	131.37	212.09	292.81	292.90	973.31	4.98	-27
14. Oct.-1657	17:19:19	17:21:5	19:52:9	22:23:15	22:25:0	330.8 /	102.22	102.01	31.97	321.93	321.72	973.68	4.98	-29
16. Oct.-1644	11:43:42	11:46:44	13:13:16	14:39:48	14:42:49	816.2 /	65.32	64.42	31.79	359.17	358.27	974.03	4.98	-31

10. Apr.-1640	0:14:10	0:17:19	4:16:57	8:16:30	8:19:38	92.0	50.20	50.12	325.75	241.37	241.30	945.22	6.09	-26
10. Oct.-1637	11:30:8	11:32:8	13:45:22	15:58:38	16:0:38	-545.4	156.04	156.44	212.14	267.85	268.24	972.92	4.98	-25
12. Oct.-1624	4:30:27	4:32:6	7:12:47	9:53:30	9:55:9	-56.8	125.38	125.42	212.05	298.68	298.72	973.35	4.98	-27
15. Oct.-1611	22:11:28	22:13:19	0:37:16	3:1:15	3:3:5	430.5	95.82	95.53	31.91	328.29	328.00	973.72	4.98	-29
m 8. Apr.-1607	2:8:5	2:28:56	2:54:26	3:19:55	3:40:46	934.3	336.79	331.90	325.80	319.70	314.80	945.73	6.07	-24
8. Oct.-1604	0:15:41	0:21:53	1:2:24	1:42:56	1:49:8	-936.6	195.54	197.65	212.17	226.70	228.80	972.46	4.98	-23
17. Oct.-1598	17:1:39	17:6:27	17:59:29	18:52:32	18:57:20	914.7	52.62	51.02	31.72	12.41	10.81	974.09	4.98	-31
11. Apr.-1594	7:10:13	7:13:22	11:12:23	15:11:19	15:14:28	-118.5	62.93	63.02	145.77	228.53	228.62	945.20	6.09	-26
10. Oct.-1591	16:7:31	16:9:23	18:32:28	20:55:34	20:57:26	-446.2	149.26	149.56	212.11	274.66	274.96	972.91	4.98	-25
13. Oct.-1578	9:17:22	9:19:1	11:59:46	14:40:34	14:42:13	43.6	119.45	119.43	32.00	304.58	304.55	973.36	4.98	-27
16. Oct.-1565	3:5:17	3:7:15	5:21:48	7:36:22	7:38:20	529.5	89.10	88.72	31.84	334.96	334.58	973.77	4.98	-29
9. Apr.-1561	7:9:30	7:14:22	9:45:42	12:16:59	12:21:52	729.4	5.77	4.88	325.80	286.72	285.83	945.63	6.08	-24
9. Oct.-1558	4:25:21	4:28:38	5:49:34	7:10:30	7:13:47	-837.4	181.10	182.09	212.16	242.22	243.22	972.52	4.98	-23
11. Apr.-1548	14:10:25	14:13:44	18:0:11	21:46:34	21:49:53	-322.1	75.60	75.86	145.81	215.76	216.03	945.13	6.09	-26
11. Oct.-1545	20:47:19	20:49:5	23:19:38	1:50:13	1:52:0	-345.7	142.78	143.00	212.08	281.15	281.37	972.97	4.98	-25
13. Oct.-1532	14:4:36	14:6:16	16:45:23	19:24:32	19:26:12	142.9	113.56	113.47	31.95	310.42	310.34	973.36	4.98	-27
16. Oct.-1519	8:3:36	8:5:45	10:7:54	12:10:3	12:12:13	629.2	81.77	81.27	31.77	342.26	341.76	973.76	4.98	-29
9. Apr.-1515	13:9:0	13:12:45	16:31:25	19:50:1	19:53:45	528.2	22.11	21.61	325.82	270.03	269.53	945.60	6.08	-24
9. Oct.-1512	8:48:32	8:51:5	10:35:46	12:20:28	12:23:1	-736.7	171.04	171.72	212.13	252.54	253.23	972.55	4.98	-23
13. Apr.-1502	21:31:6	21:34:53	0:53:52	4:12:50	4:16:36	-530.6	89.75	90.26	145.85	201.46	201.96	945.06	6.09	-26
12. Oct.-1499	1:28:45	1:30:27	4:6:17	6:42:10	6:43:53	-246.0	136.61	136.76	212.03	287.30	287.46	973.00	4.98	-25
14. Oct.-1486	18:53:25	18:55:8	21:30:51	0:6:37	0:8:20	242.2	107.56	107.41	31.89	316.36	316.21	973.42	4.98	-27
17. Oct.-1473	13:6:7	13:8:36	14:54:27	16:40:18	16:42:48	728.7	73.58	72.92	31.68	350.45	349.79	973.79	4.98	-29
10. Apr.-1469	19:32:56	19:36:14	23:21:58	3:7:37	3:10:55	322.9	36.00	35.74	325.84	255.95	255.68	945.51	6.08	-24
10. Oct.-1466	13:20:15	13:22:27	15:24:1	17:25:37	17:27:49	-636.7	162.74	163.25	212.10	260.95	261.46	972.59	4.98	-23
13. Apr.-1456	5:4:43	5:9:42	7:40:15	10:10:47	10:15:45	-733.8	106.40	107.31	145.91	184.52	185.43	945.00	6.09	-26
13. Oct.-1453	6:9:56	6:11:36	8:50:50	11:30:7	11:31:48	-146.4	130.60	130.69	211.98	293.28	293.37	973.04	4.98	-25
15. Oct.-1440	23:43:36	23:45:22	2:15:50	4:46:20	4:48:6	341.6	101.39	101.17	31.81	322.46	322.24	973.44	4.98	-27
17. Oct.-1427	18:14:56	18:18:5	19:41:26	21:4:48	21:7:56	828.1	63.82	62.88	31.60	0.32	359.37	973.81	4.98	-29
11. Apr.-1423	2:12:14	2:15:22	6:14:3	10:12:40	10:15:48	115.9	48.88	48.79	325.87	242.96	242.87	945.48	6.08	-24
10. Oct.-1420	17:54:35	17:56:35	20:10:51	22:25:10	22:27:9	-536.7	155.36	155.75	212.06	268.37	268.76	972.62	4.98	-23
m 14. Apr.-1410	14:6:37	--	14:35:39	--	15:4:40	-944.3	139.16	--	145.97	--	152.79	944.95	6.09	-26
13. Oct.-1407	10:54:18	10:55:58	13:36:49	16:17:43	16:19:22	-47.2	124.70	124.73	211.92	299.12	299.15	973.05	4.98	-25
16. Oct.-1394	4:36:37	4:38:28	7:1:34	9:24:41	9:26:33	441.5	94.93	94.63	31.74	328.85	328.55	973.47	4.98	-27
9. Oct.-1387	6:36:43	6:42:16	7:28:15	8:14:14	8:19:47	-927.3	193.73	195.60	212.12	228.64	230.51	972.24	4.98	-22
19. Oct.-1381	23:33:39	23:39:0	0:26:4	1:13:8	1:18:29	926.3	50.36	48.55	31.50	14.45	12.64	973.84	4.98	-29
12. Apr.-1377	8:54:44	8:57:52	12:57:31	16:57:7	17:0:14	-85.1	61.04	61.11	145.92	230.72	230.79	945.41	6.08	-24
12. Oct.-1374	22:31:42	22:33:33	0:57:34	3:21:37	3:23:29	-436.1	148.51	148.80	212.01	275.23	275.52	972.72	4.98	-23
14. Oct.-1361	15:40:26	15:42:5	18:22:50	21:3:38	21:5:18	53.3	118.75	118.71	31.86	305.01	304.97	973.12	4.98	-25
16. Oct.-1348	9:32:22	9:34:21	11:47:47	14:1:14	14:3:13	540.1	88.16	87.77	31.65	335.53	335.14	973.47	4.98	-27
9. Apr.-1344	9:7:36	9:12:50	11:33:6	13:53:21	13:58:35	762.2	2.73	1.73	325.92	290.11	289.11	945.94	6.07	-21
10. Oct.-1341	10:47:30	10:50:40	12:14:34	13:38:30	13:41:40	-826.8	179.87	180.81	212.09	243.36	244.31	972.27	4.98	-22
12. Apr.-1331	15:57:49	16:1:6	19:49:56	23:38:41	23:41:58	-292.5	73.86	74.10	145.97	217.84	218.08	945.40	6.09	-24
12. Oct.-1328	3:10:26	3:12:12	5:43:28	8:14:45	8:16:32	-335.7	142.05	142.26	211.96	281.66	281.87	972.73	4.98	-23

14.	Oct.-1315	20:28:47	20:30:27	23: 9:23	1:48:21	1:50: 1	153.4 /	112.77	112.68	31.78	310.89	310.80	973.18	4.98	-25
17.	Oct.-1302	14:32: 9	14:34:20	16:34:54	18:35:30	18:37:41	640.4 /	80.70	80.18	31.56	342.94	342.42	973.55	4.98	-27
10.	Apr.-1298	15: 8:15	15:12: 5	18:25:43	21:39:18	21:43: 8	554.8	20.30	19.76	325.95	272.14	271.60	945.86	6.08	-21
10.	Oct.-1295	15:13:28	15:15:58	17: 2:31	18:49: 5	18:51:36	-727.3 /	170.13	170.79	212.04	253.29	253.95	972.30	4.98	-22
14.	Apr.-1285	23:10:53	23:14:34	2:38:59	6: 3:20	6: 7: 1	-497.1	87.52	87.98	146.03	204.08	204.54	945.34	6.09	-24
13.	Oct.-1282	7:50:59	7:52:41	10:29: 4	13: 5:29	13: 7:12	-235.5 /	135.84	135.99	211.90	287.81	287.95	972.78	4.98	-23
16.	Oct.-1269	1:18:26	1:20: 9	3:55:27	6:30:47	6:32:30	253.6 /	106.69	106.53	31.70	316.88	316.72	973.19	4.98	-25
17.	Oct.-1256	19:36: 7	19:38:39	21:22:11	23: 5:43	23: 8:16	740.7 /	72.27	71.58	31.46	351.33	350.65	973.58	4.98	-27
11.	Apr.-1252	21:32:27	21:35:48	1:18:43	5: 1:34	5: 4:54	348.8	34.49	34.20	325.99	257.78	257.49	945.82	6.08	-21
11.	Oct.-1249	19:43:16	19:45:26	21:48:33	23:51:42	23:53:52	-626.3 /	161.85	162.34	211.99	261.65	262.14	972.32	4.98	-22
14.	Apr.-1239	6:55:14	6:59:58	9:37:39	12:15:18	12:20: 2	-710.4	104.41	105.25	146.10	186.96	187.80	945.29	6.09	-24
13.	Oct.-1236	12:34:32	12:36:12	15:15:47	17:55:24	17:57: 4	-136.3 /	129.85	129.93	211.83	293.73	293.81	972.77	4.98	-23
16.	Oct.-1223	6:11:59	6:13:46	8:43:30	11:13:17	11:15: 3	354.1 /	100.41	100.18	31.62	323.06	322.83	973.21	4.98	-25
19.	Oct.-1210	0:43:48	0:47: 4	2: 7: 7	3:27:11	3:30:27	839.8 /	62.25	61.25	31.35	1.45	0.46	973.60	4.98	-27
12.	Apr.-1206	4: 4:43	4: 7:52	8: 5:12	12: 2:27	12: 5:36	145.0	47.27	47.16	326.04	244.92	244.81	945.73	6.08	-21
12.	Oct.-1203	0:17:23	0:19:22	2:34:52	4:50:25	4:52:24	-526.1 /	154.51	154.89	211.94	268.99	269.36	972.40	4.98	-22
15.	Apr.-1193	15:21:40	15:34:24	16:27:44	17:21: 5	17:33:49	-915.9	130.49	133.40	146.18	158.97	161.88	945.24	6.09	-24
14.	Oct.-1190	17:19:48	17:21:28	20: 2:30	22:43:34	22:45:13	-34.6 /	123.79	123.81	211.75	299.69	299.71	972.82	4.98	-23
17.	Oct.-1177	11: 6: 1	11: 7:53	13:30: 2	15:52:13	15:54: 5	453.1 /	93.94	93.63	31.52	329.41	329.10	973.19	4.98	-25
10.	Oct.-1170	12:55:22	13: 0:29	13:50:53	14:41:18	14:46:25	-918.9 /	192.17	193.88	212.02	230.17	231.88	971.94	4.98	-20
19.	Oct.-1164	6: 7:31	6:13:46	6:53:15	7:32:43	7:38:58	938.9 /	47.61	45.47	31.24	17.01	14.87	973.60	4.98	-27
12.	Apr.-1160	10:53: 0	10:56: 7	14:56: 0	18:55:48	18:58:55	-60.0	59.71	59.76	146.10	232.45	232.49	945.71	6.08	-21
13.	Oct.-1157	4:53:34	4:55:25	7:20:24	9:45:26	9:47:17	-425.3 /	147.67	147.96	211.87	275.79	276.07	972.40	4.98	-22
15.	Oct.-1144	22: 7:15	22: 8:55	0:49:38	3:30:24	3:32: 4	65.1 /	117.86	117.82	31.67	305.52	305.48	972.86	4.98	-23
17.	Oct.-1131	16: 2: 1	16: 4: 1	18:15:59	20:27:59	20:30: 0	553.3 /	86.98	86.58	31.42	336.26	335.85	973.27	4.98	-25
10.	Apr.-1127	11:16:40	11:22:13	13:33:54	15:45:34	15:51: 6	785.1	0.54	359.45	326.08	292.71	291.61	946.18	6.07	-19
10.	Oct.-1124	17: 9: 2	17:12: 8	18:38:17	20: 4:28	20: 7:33	-818.4 /	178.87	179.79	211.97	244.15	245.07	972.01	4.98	-20
13.	Apr.-1114	17:50:14	17:53:29	21:44:14	1:34:56	1:38:10	-264.9 /	72.32	72.53	146.17	219.81	220.02	945.63	6.08	-21
13.	Oct.-1111	9:33:11	9:34:57	12: 6:53	14:38:51	14:40:37	-326.1 /	141.29	141.50	211.80	282.10	282.30	972.47	4.98	-22
16.	Oct.-1098	2:54:45	2:56:26	5:35: 8	8:13:52	8:15:33	164.9 /	111.88	111.78	31.58	311.38	311.28	972.87	4.98	-23
18.	Oct.-1085	21: 0:17	21: 2:31	23: 1:17	1: 0: 5	1: 2:19	652.6 /	79.47	78.94	31.31	343.67	343.14	973.27	4.98	-25
11.	Apr.-1081	17: 9:14	17:13:10	20:21: 3	23:28:53	23:32:49	583.3	18.35	17.77	326.12	274.48	273.90	946.16	6.07	-19
11.	Oct.-1078	21:33:43	21:36:11	23:24:50	1:13:32	1:16: 0	-716.2 /	169.05	169.69	211.91	254.13	254.77	972.06	4.98	-20
14.	Apr.-1068	1: 6:39	1:10:16	4:38: 1	8: 5:43	8: 9:20	-474.2	86.12	86.55	146.25	205.95	206.38	945.58	6.09	-21
14.	Oct.-1065	14:15:35	14:17:18	16:54:10	19:31: 6	19:32:48	-225.5 /	135.07	135.21	211.72	288.23	288.37	972.50	4.98	-22
16.	Oct.-1052	7:46:18	7:48: 2	10:22:55	12:57:50	12:59:33	264.4 /	105.81	105.64	31.48	317.32	317.15	972.92	4.98	-23
19.	Oct.-1039	2: 1:34	2: 4:10	3:45:31	5:26:54	5:29:30	751.6 /	71.00	70.29	31.19	352.09	351.38	973.30	4.98	-25
12.	Apr.-1035	23:27: 2	23:30:25	3: 9:51	6:49:14	6:52:37	378.6 /	32.75	32.43	326.18	259.94	259.62	946.08	6.08	-19
12.	Oct.-1032	2: 5:31	2: 7:40	4:12:19	6:17: 1	6:19:10	-615.7 /	160.90	161.38	211.84	262.30	262.78	972.11	4.98	-20
15.	Apr.-1022	8:31:54	8:36:23	11:23:10	14: 9:56	14:14:24	-677.6	101.73	102.48	146.34	190.19	190.95	945.56	6.09	-21
14.	Oct.-1019	19: 0:31	19: 2:12	21:42: 9	0:22:10	0:23:50	-123.2 /	128.88	128.96	211.63	294.31	294.38	972.57	4.98	-22
17.	Oct.-1006	12:38:21	12:40: 8	15: 9:11	17:38:17	17:40: 4	365.4 /	99.45	99.21	31.37	323.54	323.30	972.96	4.98	-23
20.	Oct.-993	7:11:19	7:14:43	8:31:36	9:48:29	9:51:53	850.4 /	60.71	59.65	31.07	2.48	1.42	973.33	4.98	-25
13.	Apr.-989	6: 0:54	6: 4: 3	9:59:50	13:55:32	13:58:42	173.7	45.73	45.59	326.25	246.90	246.77	946.07	6.08	-19

13. Oct.	-986	6:40:29	6:42:27	8:59:17	11:16:10	11:18: 8	-514.3 /	153.53	153.90	211.77	269.63	270.00	972.11	4.98	-20
15. Apr.	-976	16:50:14	16:59:20	18:18: 2	19:36:44	19:45:50	-887.9	125.34	127.36	146.44	165.51	167.53	945.52	6.09	-21
16. Oct.	-973	23:47:24	23:49: 3	2:30:14	5:11:28	5:13: 8	-22.6 /	122.88	122.89	211.54	300.19	300.20	972.58	4.98	-22
17. Oct.	-960	17:32:21	17:34:14	19:55:18	22:16:24	22:18:17	465.9 /	92.83	92.51	31.26	330.01	329.69	973.02	4.98	-23
11. Oct.	-953	19:14:43	19:19:24	20:15: 3	21:10:42	21:15:23	-907.8 /	190.25	191.79	211.88	231.97	233.52	971.67	4.98	-18
20. Oct.	-947	12:39:51	12:47:44	13:17:38	13:47:33	13:55:26	951.5 /	44.40	41.67	30.93	20.20	17.47	973.39	4.98	-25
13. Apr.	-943	12:48:42	12:51:49	16:51:43	20:51:33	20:54:39	-34.4 /	58.38	58.41	146.33	234.24	234.27	945.97	6.08	-19
13. Oct.	-940	11:19:44	11:21:35	13:47:31	16:13:30	16:15:21	-414.5 /	146.79	147.07	211.68	276.30	276.58	972.16	4.98	-20
16. Oct.	-927	4:33:25	4:35: 5	7:15:45	9:56:28	9:58: 8	77.2 /	116.92	116.87	31.44	306.00	305.95	972.60	4.98	-22
19. Oct.	-914	22:28: 8	22:30:10	0:40:44	2:51:19	2:53:21	565.7 /	85.81	85.39	31.14	336.89	336.47	973.00	4.98	-23
11. Apr.	-910	13:25:34	13:31:33	15:32:38	17:33:42	17:39:40	810.9	357.92	356.70	326.27	295.85	294.63	946.49	6.07	-17
12. Oct.	-907	23:29:44	23:32:44	1: 2: 5	2:31:27	2:34:27	-806.1 /	177.44	178.31	211.81	245.31	246.18	971.72	4.98	-18
14. Apr.	-897	19:49: 0	19:52:13	23:44:20	3:36:23	3:39:36	-242.1 /	71.13	71.32	146.41	221.50	221.69	945.92	6.08	-19
14. Oct.	-894	15:59:38	16: 1:23	18:34: 9	21: 6:58	21: 8:43	-313.4 /	140.31	140.51	211.59	282.68	282.88	972.17	4.98	-20
17. Oct.	-881	9:22:11	9:23:52	12: 2:18	14:40:47	14:42:28	176.4 /	110.95	110.84	31.33	311.82	311.71	972.62	4.98	-22
19. Oct.	-868	3:26:42	3:28:58	5:25:54	7:22:51	7:25: 7	664.8 /	78.20	77.65	31.01	344.37	343.82	973.04	4.98	-23
11. Apr.	-864	19:15:14	19:19:15	22:21:58	1:24:36	1:28:38	607.1 /	16.73	16.12	326.34	276.56	275.95	946.40	6.07	-17
13. Oct.	-861	3:56:52	3:59:18	5:49:55	7:40:35	7:43: 1	-705.6 /	167.99	168.61	211.73	254.86	255.48	971.75	4.98	-18
15. Apr.	-851	2:51:53	2:55:25	6:27: 6	9:58:43	10: 2:15	-445.2 /	84.37	84.77	146.50	208.24	208.64	945.87	6.08	-19
14. Oct.	-848	20:41:53	20:43:35	23:21: 3	1:58:35	2: 0:17	-212.7 /	134.07	134.21	211.50	288.79	288.92	972.24	4.98	-20
17. Oct.	-835	14:11:25	14:13: 9	16:47:28	19:21:49	19:23:33	277.8 /	104.71	104.54	31.21	317.88	317.71	972.65	4.98	-22
20. Oct.	-822	8:30: 5	8:32:45	10:11:39	11:50:33	11:53:13	763.4 /	69.57	68.83	30.88	352.92	352.18	973.04	4.98	-23
13. Apr.	-818	1:26:46	1:30:11	5: 6:16	8:42:17	8:45:42	404.9 /	31.25	30.90	326.41	261.92	261.58	946.38	6.07	-17
13. Oct.	-815	8:28:41	8:30:49	10:36:56	12:43: 6	12:45:14	-605.4 /	159.95	160.42	211.65	262.87	263.34	971.81	4.98	-18
16. Apr.	-805	10:23:45	10:28: 4	13:20:54	16:13:43	16:18: 1	-653.5 /	99.95	100.66	146.61	192.57	193.27	945.82	6.09	-19
16. Oct.	-802	1:25:39	1:27:20	4: 7:37	6:47:57	6:49:38	-112.0 /	127.99	128.05	211.39	294.73	294.80	972.25	4.98	-20
18. Oct.	-789	19: 3: 3	19: 4:51	21:33:10	0: 1:31	0: 3:19	377.2 /	98.41	98.16	31.09	324.02	323.77	972.69	4.98	-22
20. Oct.	-776	13:42: 2	13:45:38	14:57:56	16:10:15	16:13:52	864.7 /	58.60	57.47	30.73	4.00	2.86	973.11	4.98	-23
13. Apr.	-772	7:58: 7	8: 1:17	11:55:24	15:49:25	15:52:35	199.7 /	44.38	44.22	326.50	248.77	248.61	946.30	6.07	-17
14. Oct.	-769	13: 5:50	13: 7:47	15:25:47	17:43:50	17:45:47	-503.9 /	152.61	152.97	211.55	270.14	270.49	971.88	4.98	-18
16. Apr.	-759	18:21:33	18:28:59	20: 6:51	21:44:43	21:52: 9	-858.4 /	121.12	122.72	146.72	170.73	172.33	945.75	6.09	-19
16. Oct.	-756	6:10: 5	6:11:44	8:53: 3	11:34:25	11:36: 5	-12.7 /	122.04	122.04	211.28	300.52	300.52	972.32	4.98	-20
19. Oct.	-743	23:56:40	23:58:34	2:18:38	4:38:44	4:40:39	477.2 /	91.75	91.42	30.96	330.49	330.16	972.71	4.98	-22
12. Oct.	-736	1:35:26	1:39:45	2:40:41	3:41:36	3:45:55	-895.6 /	188.22	189.62	211.69	233.77	235.17	971.42	4.98	-16
21. Oct.	-730	19:17: 4	19:29:25	19:44:52	20: 0:18	20:12:39	963.7 /	40.44	36.10	30.58	25.07	20.73	973.12	4.98	-23
14. Apr.	-726	14:42:49	14:45:55	18:45:39	22:45:19	22:48:25	-6.8	56.99	56.99	146.59	236.19	236.19	946.27	6.08	-17
14. Oct.	-723	17:43:46	17:45:36	20:12:38	22:39:42	22:41:32	-401.7 /	145.74	146.01	211.45	276.89	277.16	971.90	4.98	-18
17. Oct.	-710	10:57:22	10:59: 2	13:39:38	16:20:17	16:21:57	88.4 /	115.99	115.93	31.16	306.39	306.33	972.36	4.98	-20
20. Oct.	-697	4:54:23	4:56:26	7: 5:43	9:15: 2	9:17: 5	576.7 /	84.69	84.26	30.82	337.37	336.94	972.80	4.98	-22
12. Apr.	-693	15:37: 7	15:43:40	17:33:18	19:22:54	19:29:27	835.7 /	355.23	353.85	326.51	299.18	297.80	946.79	6.06	-15
13. Oct.	-690	5:54: 9	5:57: 3	7:29:19	9: 1:37	9: 4:31	-794.4 /	176.05	176.89	211.60	246.32	247.15	971.44	4.98	-16
15. Apr.	-680	21:33:41	21:36:52	1:30:40	5:24:23	5:27:34	-210.9	69.47	69.64	146.69	223.74	223.91	946.21	6.08	-17
16. Oct.	-677	22:24:16	22:26: 2	0:59:34	3:33:10	3:34:55	-301.2 /	139.31	139.50	211.34	283.18	283.37	971.95	4.98	-18
17. Oct.	-664	15:46: 6	15:47:47	18:25:52	21: 4: 0	21: 5:41	190.3 /	109.82	109.70	31.03	312.36	312.24	972.39	4.98	-20

c

20. Oct.	-651	9:54:49	9:57:8	11:52:8	13:47:5	13:49:23	677.3 /	76.85	76.28	30.67	345.07	344.50	972.81	4.98	-22
13. Apr.	-647	21:16:27	21:20:36	0:17:20	3:14:0	3:18:8	633.0	14.96	14.30	326.59	278.89	278.23	946.73	6.07	-15
13. Oct.	-644	10:20:20	10:22:43	12:15:17	14:7:53	14:10:16	-694.9 /	166.88	167.48	211.51	255.54	256.14	971.49	4.98	-16
16. Apr.	-634	4:45:45	4:49:13	8:24:9	11:59:0	12:2:28	-418.8	82.88	83.24	146.80	210.37	210.73	946.17	6.08	-17
16. Oct.	-631	3:5:43	3:7:25	5:45:26	8:23:30	8:25:12	-200.5 /	133.09	133.21	211.23	289.25	289.37	971.95	4.98	-18
18. Oct.	-618	20:37:22	20:39:7	13:12:54	1:46:44	1:48:28	289.8 /	103.67	103.49	30.90	318.31	318.13	972.42	4.98	-20
21. Oct.	-605	15:3:39	15:3:24	16:39:7	18:14:50	18:17:36	778.0 /	67.81	67.03	30.52	354.00	353.22	972.85	4.98	-22
14. Apr.	-601	3:29:31	3:32:59	7:5:41	10:38:18	10:41:46	429.4 /	29.88	29.51	326.69	263.86	263.49	946.63	6.07	-15
14. Oct.	-598	14:52:26	14:54:32	17:2:21	19:10:12	19:12:18	-593.2 /	158.82	159.27	211.41	263.54	263.99	971.54	4.98	-16
16. Apr.	-588	12:8:21	12:12:30	15:11:56	18:11:20	18:15:28	-624.9	97.93	98.58	146.93	195.27	195.92	946.08	6.08	-17
17. Oct.	-585	7:48:28	7:50:8	10:30:44	13:11:23	13:13:3	-101.3 /	127.07	127.13	211.11	295.08	295.14	972.01	4.98	-18
19. Oct.	-572	1:29:24	1:31:12	3:58:42	6:26:15	6:28:3	389.6 /	97.28	97.02	30.76	324.49	324.23	972.44	4.98	-20
21. Oct.	-559	20:14:21	20:18:11	21:26:3	22:33:55	22:37:45	877.5 /	56.54	55.32	30.36	5.40	4.17	972.84	4.97	-22
14. Apr.	-555	9:57:45	10:0:56	13:53:16	17:45:31	17:48:42	224.6 /	43.14	42.96	326.78	250.61	250.43	946.59	6.07	-15
14. Oct.	-552	19:27:14	19:29:10	21:48:27	0:7:47	0:9:43	-491.9 /	151.55	151.89	211.29	270.69	271.04	971.55	4.98	-16
17. Apr.	-542	20:7:29	20:14:5	22:5:2	23:55:58	0:2:33	-833.8	118.18	119.56	147.06	174.56	175.94	946.02	6.09	-17
C 17. Oct.	-539	12:33:57	12:35:37	15:17:3	17:58:31	18:0:11	-0.1 /	120.98	120.98	31.05	300.97	300.97	972.03	4.98	-18
20. Oct.	-526	6:25:35	6:27:30	8:46:27	11:5:26	11:7:21	489.6 /	90.56	90.22	30.61	330.99	330.65	972.49	4.98	-20
13. Oct.	-519	7:56:8	8:0:12	9:5:2	10:9:51	10:13:56	-885.6 /	186.60	187.91	211.46	235.01	236.32	971.13	4.98	-14
m 23. Oct.	-513	2:1:57	--	2:10:39	--	2:19:21	976.5 /	33.26	--	30.19	--	27.12	972.88	4.97	-22
15. Apr.	-509	16:37:50	16:40:56	20:40:18	0:39:34	0:42:39	20.9	55.62	55.61	326.89	238.18	238.17	946.51	6.07	-15
16. Oct.	-506	0:5:32	0:7:22	2:35:16	5:3:13	5:5:2	-391.4 /	144.81	145.07	211.18	277.28	277.54	971.62	4.98	-16
18. Oct.	-493	17:21:56	17:23:36	20:4:6	22:44:39	22:46:19	101.1 /	114.91	114.85	30.84	306.82	306.76	972.08	4.98	-18
20. Oct.	-480	11:22:47	11:24:52	13:32:24	15:39:58	15:42:3	590.9 /	83.27	82.82	30.45	338.08	337.63	972.48	4.98	-20
12. Apr.	-476	17:43:42	17:51:14	19:25:17	20:59:18	21:6:49	864.7	351.67	350.03	326.79	303.56	301.92	947.06	6.06	-13
14. Oct.	-473	12:13:29	12:16:20	13:50:57	15:25:36	15:28:26	-784.6 /	174.85	175.66	211.36	247.06	247.86	971.20	4.98	-14
16. Apr.	-463	23:29:56	23:33:6	3:28:1	7:22:52	7:26:1	-184.4	68.16	68.30	147.01	225.72	225.87	946.49	6.08	-15
16. Oct.	-460	4:45:43	4:47:28	7:21:41	9:55:58	9:57:42	-290.5 /	138.36	138.55	211.05	283.55	283.73	971.68	4.98	-16
19. Oct.	-447	22:12:33	22:14:15	0:52:3	3:29:53	3:31:35	201.5 /	108.81	108.68	30.69	312.70	312.58	972.12	4.98	-18
21. Oct.	-434	16:23:14	16:25:35	18:18:27	20:11:21	20:13:42	690.1 /	75.39	74.80	30.29	345.77	345.18	972.54	4.98	-20
14. Apr.	-430	23:20:2	23:24:19	2:14:9	5:3:56	5:8:13	660.7	12.99	12.28	326.89	281.50	280.79	946.99	6.06	-13
14. Oct.	-427	16:41:3	16:43:24	18:38:5	20:32:47	20:35:8	-682.8 /	165.63	166.21	211.24	256.27	256.85	971.23	4.98	-14
17. Apr.	-417	6:32:13	6:35:37	10:13:59	13:52:16	13:55:40	-388.1	81.17	81.50	147.14	212.79	213.12	946.41	6.08	-15
17. Oct.	-414	9:28:30	9:30:12	12:8:42	14:47:16	14:48:58	-189.4 /	132.11	132.23	210.92	289.60	289.72	971.75	4.98	-16
20. Oct.	-401	3:2:58	3:4:42	5:37:58	8:11:16	8:13:1	301.4 /	102.59	102.40	30.54	318.68	318.49	972.18	4.98	-18
21. Oct.	-388	21:28:13	21:31:4	23:4:0	0:36:58	0:39:48	790.1 /	66.21	65.39	30.12	354.84	354.02	972.57	4.97	-20
14. Apr.	-384	5:28:54	5:32:25	9:1:9	12:29:48	12:33:19	456.6	28.36	27.96	327.00	266.04	265.64	946.98	6.07	-13
15. Oct.	-381	21:13:34	21:15:39	23:25:4	1:34:32	1:36:37	-581.2 /	157.67	158.11	211.12	264.13	264.57	971.25	4.98	-14
17. Apr.	-371	13:55:45	13:59:45	17:5:7	20:10:27	20:14:27	-596.9	96.07	96.67	147.28	197.89	198.49	946.38	6.08	-15
17. Oct.	-368	14:13:27	14:15:7	16:56:2	19:37:0	19:38:41	-88.0 /	125.96	126.01	210.78	295.54	295.59	971.74	4.98	-16
20. Oct.	-355	7:57:2	7:58:51	10:25:27	12:52:6	12:53:55	402.7 /	96.06	95.79	30.38	324.97	324.70	972.21	4.98	-18
m 13. Oct.	-348	--	--	10:39:39	--	--	-976.2 /	--	--	211.30	--	--	970.77	4.98	-12
23. Oct.	-342	2:41:13	2:45:18	3:48:47	4:52:16	4:56:21	889.2 /	54.50	53.18	29.94	6.70	5.37	972.64	4.97	-20
15. Apr.	-338	11:57:49	12:1:1	15:51:13	19:41:20	19:44:31	251.5	41.80	41.59	327.11	252.64	252.43	946.88	6.07	-13

16. Oct.	-335	1:50:0	1:51:55	4:12:25	6:32:57	6:34:53	-480.6 /	150.49	150.82	210.99	271.16	271.49	971.31	4.98	-14
18. Apr.	-325	21:40:16	21:46:8	23:51:3	1:55:57	2:1:49	-802.9	114.88	116.06	147.43	178.80	179.98	946.35	6.08	-15
18. Oct.	-322	19:0:58	19:2:38	21:44:9	0:25:44	0:27:24	13.2 /	119.87	119.86	30.63	301.40	301.39	971.79	4.98	-16
21. Oct.	-309	12:52:1	12:53:57	15:11:33	17:29:10	17:31:7	503.9 /	89.19	88.83	30.21	331.59	331.24	972.21	4.98	-18
14. Oct.	-302	14:12:47	14:16:39	15:25:29	16:34:20	16:38:12	-874.7 /	184.88	186.10	211.19	236.27	237.49	970.85	4.98	-12
15. Apr.	-292	18:34:25	18:37:30	22:36:17	2:34:57	2:38:3	47.1	54.39	54.35	327.24	240.13	240.09	946.84	6.07	-13
17. Oct.	-289	6:28:27	6:30:16	8:59:8	11:24:58	11:29:51	-379.6 /	143.75	144.00	210.85	277.71	277.96	971.35	4.98	-14
19. Oct.	-276	23:49:38	23:51:19	2:31:40	5:12:4	5:13:45	114.2 /	113.77	113.70	30.47	307.24	307.17	971.80	4.98	-16
21. Oct.	-263	17:49:42	17:51:48	19:57:45	22:3:43	22:5:50	603.5 /	81.92	81.45	30.04	338.63	338.16	972.26	4.98	-18
13. Apr.	-259	20:1:52	20:10:31	21:30:57	22:51:22	23:0:1	885.9	348.80	346.86	327.11	307.36	305.42	947.35	6.06	-11
14. Oct.	-256	18:33:1	18:35:48	20:12:55	21:50:3	21:52:49	-773.8 /	173.53	174.31	211.06	247.82	248.59	970.87	4.98	-12
17. Apr.	-246	1:24:7	1:27:15	5:23:9	9:18:58	9:22:6	-156.7	66.82	66.94	147.38	227.81	227.93	946.74	6.07	-13
17. Oct.	-243	11:10:34	11:12:19	13:47:19	16:22:22	16:24:6	-277.6 /	137.24	137.41	210.71	284.01	284.18	971.40	4.98	-14
20. Oct.	-230	4:37:27	4:39:9	7:16:35	9:54:4	9:55:47	213.9 /	107.68	107.55	30.31	313.07	312.94	971.86	4.98	-16
23. Oct.	-217	22:49:51	22:52:15	0:42:48	2:33:23	2:35:47	703.6 /	73.82	73.20	29.86	346.51	345.90	972.26	4.97	-18
15. Apr.	-213	1:26:23	1:30:50	4:13:56	6:56:58	7:1:25	685.9	11.21	10.44	327.23	284.02	283.25	947.32	6.06	-11
16. Oct.	-210	23:2:16	23:4:35	1:1:13	2:57:52	3:0:11	-671.3 /	164.40	164.96	210.93	256.90	257.46	970.94	4.98	-12
17. Apr.	-200	8:28:58	8:32:19	12:12:56	15:53:28	15:56:49	-365.4 /	80.05	80.36	147.52	214.69	214.99	946.71	6.08	-13
18. Oct.	-197	15:53:34	15:55:16	18:34:17	21:13:22	21:15:4	-177.0 /	131.02	131.13	210.56	289.99	290.10	971.39	4.98	-14
20. Oct.	-184	9:28:21	9:30:6	12:2:41	14:35:18	14:37:3	315.1 /	101.34	101.14	30.14	319.14	318.94	971.87	4.98	-16
23. Oct.	-171	3:55:16	3:58:13	5:28:2	6:57:52	7:0:49	803.0 /	64.44	63.58	29.67	355.76	354.90	972.32	4.97	-18
15. Apr.	-167	7:31:50	7:35:24	11:0:0	14:24:31	14:28:5	482.8	26.91	26.47	327.35	268.23	267.79	947.22	6.06	-11
16. Oct.	-164	3:36:43	3:38:47	5:49:40	8:0:35	8:2:39	-570.2 /	156.55	156.97	210.79	264.61	265.03	971.02	4.98	-12
18. Apr.	-154	15:40:51	15:44:43	18:55:42	22:6:37	22:10:30	-567.9	94.24	94.80	147.68	200.56	201.11	946.66	6.08	-13
18. Oct.	-151	20:38:45	20:40:26	23:21:38	2:2:54	2:4:34	-75.7 /	124.87	124.91	210.40	295.89	295.93	971.49	4.98	-14
21. Oct.	-138	14:20:48	14:22:38	16:48:21	19:14:5	19:15:55	415.3 /	94.82	94.55	29.96	325.38	325.10	971.90	4.98	-16
14. Oct.	-131	16:37:6	16:54:13	17:1:41	17:9:10	17:26:16	-964.5 /	202.39	208.37	211.00	213.64	219.61	970.54	4.98	-10
24. Oct.	-125	9:11:44	9:16:12	10:13:52	11:11:33	11:16:1	903.2 /	51.94	50.47	29.47	8.48	7.01	972.30	4.97	-18
16. Apr.	-121	13:49:53	13:53:6	17:40:41	21:28:10	21:31:23	282.0 /	40.26	40.03	327.48	254.94	254.71	947.20	6.07	-11
17. Oct.	-118	8:12:57	8:14:51	10:36:37	12:58:25	13:0:20	-468.2 /	149.32	149.64	210.64	271.64	271.97	971.05	4.98	-12
19. Apr.	-108	23:24:44	23:30:8	1:45:41	4:1:13	4:6:37	-775.7	112.34	113.39	147.84	182.29	183.34	946.62	6.08	-13
20. Oct.	-105	1:24:54	1:26:34	4:8:9	6:49:48	6:51:28	25.6 /	118.75	118.74	30.23	301.73	301.71	971.53	4.98	-14
21. Oct.	-92	19:16:32	19:18:29	21:34:56	23:51:25	23:53:23	515.7 /	87.93	87.57	29.78	331.99	331.62	971.97	4.98	-16
15. Oct.	-85	20:33:39	20:37:19	21:50:7	23:2:55	23:6:35	-863.2 /	183.11	184.25	210.87	237.48	238.62	970.54	4.98	-10
17. Apr.	-75	20:28:22	20:31:27	0:29:23	4:27:12	4:30:17	76.4	53.01	52.95	327.62	242.30	242.24	947.13	6.07	-11
17. Oct.	-72	12:53:37	12:55:25	15:25:19	17:55:17	17:57:5	-366.2 /	142.54	142.78	210.49	278.20	278.44	971.08	4.98	-12
20. Oct.	-59	6:11:46	6:13:27	8:53:39	11:33:55	11:35:35	126.7 /	112.63	112.55	30.06	307.57	307.49	971.58	4.98	-14
23. Oct.	-46	0:14:39	0:16:48	2:21:2	4:25:18	4:27:27	616.5 /	80.48	80.00	29.58	339.17	338.69	972.00	4.97	-16
14. Apr.	-42	22:19:11	22:30:35	23:28:54	0:27:12	0:38:37	912.8	344.31	341.68	327.47	313.27	310.63	947.69	6.05	-9
16. Oct.	-39	0:56:5	0:58:46	2:38:54	4:19:4	4:21:45	-760.2 /	171.92	172.67	210.72	248.78	249.52	970.60	4.98	-10
18. Apr.	-29	3:21:37	3:24:43	7:21:13	11:17:37	11:20:44	-133.0	65.78	65.89	147.78	229.68	229.78	947.11	6.07	-11
18. Oct.	-26	17:34:52	17:36:36	20:12:20	22:48:8	22:49:52	-264.8 /	136.08	136.25	210.33	284.40	284.57	971.08	4.98	-12
21. Oct.	-13	11:1:53	11:3:35	13:40:35	16:17:39	16:19:21	227.6 /	106.42	106.28	29.88	313.48	313.34	971.57	4.98	-14
23. Oct.	0	5:18:12	5:20:39	7:8:43	8:56:49	8:59:16	717.6 /	72.14	71.50	29.39	347.28	346.63	972.04	4.97	-16

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15. Apr.	4	3:34:53	3:39:29	6:16:3	8:52:33	8:57:10	708.6	9.60	8.77	327.60	286.43	285.61	947.59	6.06	-9
17. Oct.	7	5:25:58	5:28:15	7:26:56	9:25:39	9:27:55	-658.8	163.06	163.60	210.57	257.54	258.09	970.65	4.98	-10
18. Apr.	17	10:20:48	10:24:6	14:7:16	17:50:21	17:53:39	-337.3	78.65	78.93	147.94	216.95	217.24	947.01	6.07	-11
19. Oct.	20	22:17:35	22:19:17	0:58:49	3:38:25	3:40:7	-163.5	129.82	129.92	210.16	290.39	290.49	971.16	4.98	-12
21. Oct.	33	15:53:52	15:55:38	18:27:30	20:59:24	21:1:10	328.9	100.03	99.82	29.69	319.56	319.35	971.60	4.98	-14
24. Oct.	46	10:26:4	10:29:8	11:55:15	13:21:23	13:24:27	817.4	62.40	61.49	29.18	356.86	355.95	972.03	4.97	-16
16. Apr.	50	9:32:34	9:36:12	12:56:18	16:16:19	16:19:57	509.6	25.43	24.96	327.74	270.53	270.06	947.55	6.06	-9
17. Oct.	53	9:58:19	10:0:22	12:12:54	14:25:28	14:27:31	-557.1	155.25	155.66	210.42	265.17	265.58	970.69	4.98	-10
19. Apr.	63	17:35:48	17:39:34	20:54:49	0:9:59	0:13:46	-543.7	92.88	93.40	148.11	202.83	203.35	946.96	6.08	-11
20. Oct.	66	3:1:15	3:2:55	5:44:24	8:25:56	8:27:37	-62.5	123.67	123.71	209.98	296.25	296.29	971.18	4.98	-12
22. Oct.	79	20:47:55	20:49:46	23:14:25	1:39:6	1:40:58	429.4	93.44	93.15	29.50	325.85	325.56	971.65	4.98	-14
15. Oct.	86	22:51:17	23:0:24	23:26:0	23:51:36	0:0:43	-953.2	198.47	201.60	210.66	219.71	222.84	970.20	4.98	-8
24. Oct.	92	15:45:34	15:50:34	16:41:40	17:32:46	17:37:47	917.2	49.14	47.46	28.97	10.47	8.80	972.09	4.97	-16
16. Apr.	96	15:55:41	15:58:55	19:44:22	23:29:42	23:32:56	303.5	39.32	39.07	327.89	256.72	256.47	947.47	6.06	-9
18. Oct.	99	14:35:35	14:37:29	17:0:24	19:23:23	19:25:16	-456.6	148.16	148.48	210.25	272.02	272.34	970.74	4.98	-10
20. Apr.	109	1:9:51	1:14:53	3:40:16	6:5:37	6:10:39	-747.4	109.94	110.88	148.29	185.70	186.65	946.87	6.08	-11
20. Oct.	112	7:47:4	7:48:44	10:30:22	13:12:4	13:13:44	38.6	117.55	117.53	29.80	302.07	302.04	971.22	4.98	-12
23. Oct.	125	1:42:51	1:44:50	3:59:53	6:14:58	6:16:57	529.4	86.50	86.11	29.30	332.48	332.10	971.69	4.97	-14
16. Oct.	132	2:54:7	2:57:37	4:14:34	5:31:32	5:35:2	-850.4	181.19	182.26	210.50	238.74	239.81	970.31	4.98	-8
18. Apr.	142	22:30:23	22:33:28	2:30:28	6:27:21	6:30:26	100.1	52.01	51.93	328.05	244.18	244.10	947.44	6.06	-9
18. Oct.	145	19:14:38	19:16:25	21:47:17	0:18:11	0:19:59	-353.8	141.35	141.58	210.08	278.57	278.80	970.79	4.98	-10
m 21. Apr.	155	--	--	10:31:29	--	--	-958.2	--	--	148.48	--	--	946.83	6.08	-11
21. Oct.	158	12:35:57	12:37:38	15:17:40	17:57:45	17:59:26	138.7	111.46	111.37	29.61	307.84	307.76	971.24	4.98	-12
24. Oct.	171	6:42:54	6:45:5	8:47:26	10:49:49	10:52:0	630.2	78.92	78.42	29.09	339.75	339.25	971.72	4.97	-14
m 16. Apr.	175	0:44:50	1:6:32	1:29:11	1:51:50	2:13:32	937.6	338.51	333.35	327.87	322.39	317.24	948.00	6.05	-7
17. Oct.	178	7:16:57	7:19:35	9:2:26	10:45:18	10:47:56	-747.5	170.39	171.10	210.34	249.58	250.29	970.33	4.98	-8
18. Apr.	188	5:14:52	5:17:57	9:15:2	13:12:0	13:15:5	-103.5	64.43	64.51	148.22	231.93	232.01	947.34	6.07	-9
20. Oct.	191	23:56:28	23:58:11	2:34:38	5:11:8	5:12:52	-252.2	134.89	135.05	209.90	284.75	284.91	970.87	4.98	-10
21. Oct.	204	17:27:27	17:29:10	20:5:42	22:42:16	22:44:0	241.5	105.11	104.96	29.41	313.86	313.71	971.34	4.98	-12
24. Oct.	217	11:45:52	11:48:23	13:34:5	15:19:48	15:22:19	730.3	70.49	69.83	28.87	347.91	347.24	971.75	4.97	-14
16. Apr.	221	5:39:21	5:44:13	8:12:0	10:39:44	10:44:35	737.1	7.42	6.51	328.02	289.52	288.62	947.94	6.05	-7
17. Oct.	224	11:45:58	11:48:13	13:48:57	15:49:43	15:51:58	-646.0	161.66	162.19	210.17	258.16	258.68	970.38	4.98	-8
19. Apr.	234	12:11:56	12:15:12	16:0:44	19:46:10	19:49:25	-308.3	77.24	77.50	148.40	219.31	219.56	947.33	6.07	-9
20. Oct.	237	4:40:1	4:41:43	7:21:45	10:1:52	10:3:33	-149.7	128.55	128.65	209.71	290.78	290.87	970.87	4.98	-10
23. Oct.	250	22:20:41	22:22:28	0:53:34	3:24:43	3:26:30	342.6	98.68	98.46	29.20	319.95	319.72	971.38	4.98	-12
25. Oct.	263	16:55:3	16:58:16	18:20:32	19:42:48	19:46:1	831.6	60.30	59.33	28.65	357.96	356.99	971.83	4.97	-14
17. Apr.	267	11:42:56	11:46:37	15:3:8	18:19:34	18:23:15	529.2	24.46	23.97	328.18	272.39	271.89	947.85	6.06	-7
18. Oct.	270	16:20:21	16:22:22	18:36:26	20:50:33	20:52:35	-544.8	153.96	154.36	210.00	265.63	266.03	970.39	4.98	-8
19. Apr.	280	19:24:38	19:28:18	22:48:20	2:8:18	2:11:58	-514.4	91.22	91.70	148.59	205.48	205.95	947.25	6.07	-9
21. Oct.	283	9:26:20	9:28:0	12:9:45	14:51:33	14:53:13	-48.6	122.39	122.42	209.51	296.61	296.64	970.92	4.98	-10
23. Oct.	296	3:14:14	3:16:6	5:39:38	8:3:12	8:5:5	443.6	91.99	91.69	28.99	326.29	325.99	971.41	4.97	-12
17. Oct.	303	5:5:28	5:12:19	5:49:6	6:25:54	6:32:45	-940.0	194.89	197.21	210.26	223.31	225.64	969.94	4.98	-6
25. Oct.	309	22:17:29	22:23:22	23:6:11	23:48:59	23:54:52	932.2	45.81	43.82	28.41	13.01	11.01	971.84	4.97	-14
17. Apr.	313	18:0:27	18:3:42	21:46:33	1:29:19	1:32:34	328.3	38.19	37.92	328.34	258.77	258.50	947.79	6.06	-7

18. Oct.	316	20:57:14	20:59:7	23:23:27	1:47:51	1:49:44	-441.7 /	146.76	147.06	209.81	272.57	272.87	970.44	4.98	-8
21. Apr.	326	3: 2:52	3: 7:39	5:40:2	8:12:23	8:17:10	-725.1	108.29	109.17	148.79	188.41	189.28	947.20	6.07	-9
21. Oct.	329	14:13:28	14:15:8	16:56:47	19:38:30	19:40:10	52.0 /	116.29	116.25	29.32	302.38	302.35	970.93	4.98	-10
24. Oct.	342	8:11:27	8:13:27	10:26:56	12:40:28	12:42:28	544.0 /	84.93	84.53	28.77	333.01	332.61	971.42	4.97	-12
17. Oct.	349	9:11:43	9:15:3	10:35:58	11:56:54	12: 0:14	-837.3 /	179.28	180.29	210.09	239.90	240.90	969.95	4.98	-6
19. Apr.	359	0:31:39	0:34:44	4:30:36	8:26:21	8:29:26	124.7 /	50.98	50.89	328.52	246.16	246.06	947.69	6.06	-7
20. Oct.	362	1:37:30	1:39:17	4:11:7	6:43:0	6:44:47	-340.6 /	140.08	140.30	209.63	278.95	279.17	970.51	4.98	-8
21. Apr.	372	11:26:32	11:42:14	12:21:47	13: 1:20	13:17:1	-928.1 /	135.80	139.47	148.99	158.51	162.18	947.13	6.08	-9
22. Oct.	375	19: 2:53	19: 4:35	21:44:19	0:24:7	0:25:49	154.5 /	110.03	109.93	29.11	308.29	308.19	971.01	4.98	-10
24. Oct.	388	13:10:24	13:12:37	15:12:51	17:13:6	17:15:19	645.1 /	77.21	76.69	28.54	340.40	339.88	971.43	4.97	-12
m 16. Apr.	392	--	--	3:32:48	--	--	961.1	--	--	328.31	--	--	948.26	6.04	-5
18. Oct.	395	13:35:30	13:38:5	15:23:9	17: 8:16	17:10:51	-736.7 /	169.00	169.69	209.91	250.14	250.82	970.03	4.98	-6
19. Apr.	405	7:13:1	7:16:5	11:13:25	15:10:39	15:13:44	-77.6	63.35	63.41	148.70	234.00	234.07	947.68	6.06	-7
20. Oct.	408	6:19:21	6:21:4	8:58:14	11:35:28	11:37:12	-238.6 /	133.60	133.75	209.43	285.10	285.25	970.53	4.98	-8
23. Oct.	421	23:53:40	23:55:24	2:31:24	5: 7:27	5: 9:11	255.7 /	103.73	103.57	28.89	314.22	314.06	971.03	4.98	-10
25. Oct.	434	18:13:33	18:16:9	19:58:46	21:41:24	21:44:0	746.1 /	68.51	67.80	28.31	348.82	348.11	971.50	4.97	-12
17. Apr.	438	7:53:32	7:58:35	10:19:27	12:40:16	12:45:20	757.6 /	5.91	4.94	328.48	292.02	291.05	948.20	6.05	-5
18. Oct.	441	18: 6:37	18: 8:50	20:11:29	22:14:10	22:16:23	-633.7 /	160.27	160.78	209.73	258.68	259.18	970.08	4.98	-6
20. Apr.	451	14: 8:56	14:12:9	17:59:24	21:46:34	21:49:47	-283.6	76.17	76.40	148.90	221.40	221.63	947.58	6.07	-7
21. Oct.	454	11: 5:18	11: 6:59	13:47:28	16:28:1	16:29:42	-137.4 /	127.34	127.43	209.22	291.02	291.10	970.62	4.98	-8
24. Oct.	467	4:44:55	4:46:43	7:17:2	9:47:23	9:49:10	356.5 /	97.27	97.04	28.67	320.30	320.07	971.07	4.98	-10
26. Oct.	480	23:23:5	23:26:28	0:44:22	2: 2:16	2: 5:39	846.5 /	57.99	56.94	28.07	359.19	358.15	971.50	4.97	-12
17. Apr.	484	13:44:6	13:47:52	16:58:55	20: 9:54	20:13:40	558.2 /	22.83	22.30	328.65	275.00	274.47	948.17	6.05	-5
20. Oct.	487	22:42:26	22:44:26	1: 0:16	3:16:10	3:18:10	-530.0 /	152.47	152.85	209.53	266.21	266.60	970.16	4.98	-6
21. Apr.	497	21:19:47	21:23:23	0:47:1	4:10:35	4:14:10	-490.2 /	90.01	90.45	149.10	207.76	208.20	947.55	6.07	-7
21. Oct.	500	15:51:9	15:52:49	18:34:47	21:16:48	21:18:29	-34.4 /	121.06	121.08	209.01	296.95	296.97	970.65	4.98	-8
24. Oct.	513	9:39:43	9:41:36	12: 4:3	14:26:32	14:28:26	456.9 /	90.55	90.24	28.44	326.64	326.33	971.12	4.97	-10
17. Oct.	520	11:20:11	11:25:53	12:11:22	12:56:51	13: 2:33	-926.3 /	191.72	193.63	209.83	226.02	227.93	969.61	4.98	-4
27. Oct.	526	4:50:57	4:58:22	5:31:1	6: 3:41	6:11:5	946.6 /	42.06	39.51	27.82	16.13	13.58	971.56	4.97	-12
18. Apr.	530	20: 1:55	20: 5:12	23:45:9	3:24:59	3:28:17	354.2 /	37.02	36.73	328.83	260.94	260.65	948.10	6.05	-5
20. Oct.	533	3:21:54	3:23:46	5:49:25	8:15:7	8:16:59	-427.6 /	145.36	145.65	209.34	273.02	273.31	970.19	4.98	-6
22. Apr.	543	4:41:56	4:46:27	7:27:54	10: 9:18	10:13:49	-693.4	105.94	106.73	149.31	191.90	192.69	947.49	6.07	-7
22. Oct.	546	20:38:56	20:40:37	23:22:13	2: 3:53	2: 5:34	67.7 /	114.84	114.80	28.79	302.79	302.75	970.72	4.98	-8
25. Oct.	559	14:36:49	14:38:51	16:50:34	19: 2:18	19: 4:20	560.0 /	83.22	82.80	28.20	333.60	333.18	971.17	4.97	-10
18. Oct.	566	15:31:57	15:35:9	16:59:34	18:24:0	18:27:12	-825.1 /	177.49	178.44	209.64	240.84	241.79	969.69	4.98	-4
19. Apr.	576	2:30:5	2:33:11	6:27:39	10:22:1	10:25:7	151.4	49.87	49.75	329.02	248.30	248.18	948.07	6.06	-5
21. Oct.	579	8: 1:47	8: 3:34	10:36:24	13: 9:18	13:11:5	-326.2 /	138.69	138.90	209.13	279.35	279.56	970.22	4.98	-6
22. Apr.	589	13: 0:15	13:10:21	14:18:38	15:26:55	15:37:1	-902.1 /	130.62	132.92	149.54	166.16	168.46	947.47	6.07	-7
23. Oct.	592	1:27:54	1:29:36	4: 9:2	6:48:31	6:50:13	169.7 /	108.58	108.47	28.57	308.66	308.56	970.71	4.98	-8
25. Oct.	605	19:37:31	19:39:47	21:37:42	23:35:39	23:37:55	660.6 /	75.39	74.85	27.96	341.07	340.52	971.21	4.97	-10
18. Oct.	612	19:57:10	19:59:41	21:47:43	23:35:47	23:38:18	-721.8 /	167.23	167.89	209.44	250.99	251.65	969.72	4.98	-4
20. Apr.	622	9:15:16	9:18:20	13:15:40	17:12:54	17:15:58	-55.6	62.54	62.59	149.23	235.87	235.92	947.96	6.06	-5
21. Oct.	625	12:45:2	12:46:45	15:24:38	18: 2:34	18: 4:17	-224.4 /	132.24	132.38	208.91	285.45	285.59	970.27	4.98	-6
24. Oct.	638	6:17:53	6:19:37	8:55:3	11:30:32	11:32:16	270.2 /	102.28	102.11	28.33	314.56	314.39	970.76	4.98	-8

27. Oct.	651	0:42:27	0:45:8	2:24:30	4:3:53	4:6:34	761.8	/	66.43	65.69	27.71	349.72	348.98	971.21	4.97	-10
18. Apr.	655	10:2:32	10:7:53	12:20:1	14:32:6	14:37:28	781.7	/	3.98	2.92	328.97	295.03	293.96	948.53	6.04	-3
20. Oct.	658	0:29:42	0:31:53	2:36:45	4:41:40	4:43:51	-618.8	/	158.66	159.15	209.24	259.33	259.82	969.79	4.98	-4
20. Apr.	668	16:10:39	16:13:51	20:2:29	23:51:1	23:54:13	-260.8	/	75.27	75.48	149.44	223.40	223.61	947.91	6.06	-5
22. Oct.	671	17:28:40	17:30:21	20:11:19	22:52:22	22:54:3	-121.0	/	125.84	125.92	208.69	291.46	291.54	970.29	4.98	-6
24. Oct.	684	11:10:47	11:12:35	13:41:59	16:11:25	16:13:13	371.5	/	95.74	95.50	28.09	320.69	320.45	970.78	4.97	-8
27. Oct.	697	5:56:10	5:59:46	7:12:41	8:25:36	8:29:13	862.2	/	55.43	54.30	27.45	0.59	359.46	971.24	4.97	-10
18. Apr.	701	15:56:6	15:59:56	19:6:47	22:13:33	22:17:23	578.7	/	21.82	21.26	329.17	277.07	276.51	948.46	6.05	-3
20. Oct.	704	5:5:57	5:7:56	7:25:23	9:42:53	9:44:52	-516.1	/	151.01	151.38	209.03	266.68	267.04	969.82	4.98	-4
22. Apr.	714	23:15:0	23:18:32	2:45:33	6:12:30	6:16:1	-465.4	/	88.83	89.24	149.66	210.07	210.49	947.83	6.06	-5
23. Oct.	717	22:14:37	22:16:18	0:58:28	3:40:41	3:42:22	-19.7	/	119.64	119.65	208.46	297.27	297.28	970.35	4.98	-6
25. Oct.	730	16:6:24	16:8:19	18:29:14	20:50:11	20:52:6	474.5	/	88.77	88.44	27.84	327.25	326.92	970.83	4.97	-8
18. Oct.	737	17:38:23	17:43:25	18:35:50	19:28:15	19:33:17	-913.3	/	188.96	190.61	209.35	228.08	229.74	969.38	4.98	-2
m 28. Oct.	743	11:32:13	11:45:36	11:59:2	12:12:29	12:25:52	962.9	/	36.65	31.96	27.18	22.40	17.71	971.26	4.97	-10
20. Apr.	747	22:5:22	22:8:41	1:45:42	5:22:38	5:25:57	378.2	/	36.00	35.68	329.36	263.05	262.73	948.40	6.05	-3
21. Oct.	750	9:43:26	9:45:18	12:12:6	14:38:58	14:40:49	-414.9	/	144.02	144.30	208.81	273.33	273.60	969.91	4.98	-4
22. Apr.	760	6:41:38	6:45:59	9:33:7	12:20:11	12:24:32	-671.4	/	104.60	105.33	149.89	194.44	195.18	947.81	6.07	-5
24. Oct.	763	3:1:56	3:3:37	5:45:9	8:26:46	8:28:27	82.4	/	113.41	113.36	28.22	303.09	303.04	970.38	4.98	-6
25. Oct.	776	21:5:0	21:7:4	23:17:2	1:27:3	1:29:7	574.9	/	81.52	81.09	27.59	334.09	333.66	970.85	4.97	-8
19. Oct.	783	21:52:32	21:55:36	23:24:9	0:52:43	0:55:47	-809.8	/	175.36	176.26	209.14	242.02	242.92	969.40	4.98	-2
20. Apr.	793	4:35:24	4:38:30	8:31:34	12:24:30	12:27:36	174.2	/	49.03	48.89	329.57	250.26	250.12	948.33	6.05	-3
21. Oct.	796	14:24:21	14:26:7	16:59:57	19:33:50	19:35:37	-311.4	/	137.24	137.44	208.59	279.73	279.93	969.96	4.98	-4
23. Apr.	806	14:41:2	14:49:7	16:16:26	17:43:44	17:51:49	-876.3	/	126.85	128.63	150.12	171.62	173.40	947.72	6.07	-5
24. Oct.	809	7:51:36	7:53:18	10:32:26	13:11:37	13:13:19	183.2	/	107.18	107.07	27.98	308.89	308.78	970.47	4.98	-6
27. Oct.	822	2:5:38	2:7:57	4:3:30	5:59:4	6:1:24	675.7	/	73.53	72.97	27.33	341.69	341.12	970.90	4.97	-8
20. Oct.	829	2:19:34	2:22:1	4:12:57	6:3:56	6:6:23	-706.6	/	165.42	166.04	208.93	251.81	252.44	969.46	4.98	-2
21. Apr.	839	11:15:17	11:18:20	15:15:34	19:12:41	19:15:44	-29.7	/	61.54	61.57	149.79	238.01	238.04	948.32	6.06	-3
22. Oct.	842	19:7:0	19:8:43	21:47:21	0:26:3	0:27:46	-208.1	/	130.70	130.83	208.35	285.87	286.00	969.98	4.98	-4
25. Oct.	855	12:43:45	12:45:30	15:20:14	17:55:1	17:56:46	286.2	/	100.70	100.52	27.73	314.95	314.76	970.48	4.98	-6
27. Oct.	868	7:12:35	7:15:21	8:51:30	10:27:41	10:30:27	776.5	/	64.37	63.59	27.06	350.54	349.75	970.97	4.97	-8
18. Apr.	872	12:20:43	12:26:22	14:30:38	16:34:51	16:40:31	801.7	/	2.41	1.26	329.51	297.77	296.61	948.88	6.04	-1
21. Oct.	875	6:51:33	6:53:42	9:0:43	11:7:46	11:9:55	-603.9	/	157.02	157.49	208.71	259.92	260.39	969.47	4.98	-2
21. Apr.	885	18:8:48	18:11:57	22:1:59	1:51:54	1:55:3	-235.2	/	74.25	74.44	150.02	225.59	225.78	948.23	6.06	-3
23. Oct.	888	23:52:29	23:54:10	2:35:34	5:17:3	5:18:45	-106.1	/	124.38	124.45	208.11	291.78	291.84	970.03	4.98	-4
25. Oct.	901	17:38:53	17:40:42	20:8:57	22:37:14	22:39:3	388.9	/	94.00	93.74	27.47	321.20	320.94	970.53	4.97	-6
28. Oct.	914	12:26:55	12:30:50	13:37:51	14:44:52	14:48:47	879.0	/	52.55	51.30	26.78	2.27	1.02	970.98	4.97	-8
19. Apr.	918	18:5:12	18:9:6	21:11:12	0:13:12	0:17:7	600.8	/	20.70	20.11	329.72	279.33	278.74	948.78	6.04	-1
21. Oct.	921	11:26:16	11:28:14	13:47:14	16:6:19	16:8:17	-502.2	/	149.51	149.87	208.48	267.08	267.44	969.55	4.98	-2
23. Apr.	931	1:15:43	1:19:10	4:49:6	8:18:58	8:22:25	-442.1	/	87.82	88.21	150.25	212.30	212.69	948.19	6.06	-3
C 24. Oct.	934	4:39:5	4:40:46	7:23:5	10:5:29	10:7:10	-4.0	/	118.13	118.13	207.88	297.60	297.60	970.05	4.98	-4
27. Oct.	947	22:35:48	22:37:44	0:57:12	3:16:42	3:18:38	490.4	/	87.05	86.71	27.21	327.71	327.36	970.54	4.97	-6
20. Oct.	954	23:54:35	23:59:6	0:58:11	1:57:17	2:1:48	-898.7	/	186.15	187.61	208.82	230.03	231.49	969.01	4.98	0
m 28. Oct.	960	--	--	18:24:24	--	--	979.3	/	--	--	26.50	--	--	971.04	4.97	-8
20. Apr.	964	0:19:25	0:22:45	3:57:16	7:31:40	7:35:0	397.1	/	35.33	34.99	329.93	264.88	264.54	948.71	6.05	-1

22. Oct.	967	16: 4:57	16: 6:47	18:34:59	21: 3:14	21: 5: 5	-398.7 /	142.41	142.68	208.24	273.81	274.07	969.58	4.98	-2
23. Apr.	977	8:35:53	8:40: 5	11:32:59	14:25:49	14:30: 1	-647.1	103.18	103.86	150.50	197.14	197.83	948.07	6.06	-3
24. Oct.	980	9:28:21	9:30: 2	12:11:27	14:52:57	14:54:38	98.0 /	111.88	111.82	27.61	303.41	303.35	970.11	4.98	-4
27. Oct.	993	3:32:28	3:34:34	5:42:37	7:50:43	7:52:49	590.5 /	79.71	79.26	26.94	334.61	334.16	970.59	4.97	-6
20. Oct.	1000	4:11:27	4:14:24	5:46:33	7:18:42	7:21:40	-795.8 /	173.40	174.24	208.60	242.95	243.80	969.10	4.98	0
21. Apr.	1010	6:43:16	6:46:22	10:37:59	14:29:28	14:32:34	195.1	48.33	48.18	330.16	252.14	251.98	948.67	6.05	-1
22. Oct.	1013	20:46:37	20:48:23	13:23:13	1:58: 7	1:59:53	-295.9 /	135.70	135.89	208.00	280.11	280.30	969.62	4.98	-2
24. Apr.	1023	16:32: 5	16:39:10	18:19:34	19:59:58	20: 7: 2	-854.1 /	124.27	125.79	150.75	175.71	177.24	948.03	6.07	-3
25. Oct.	1026	14:18:12	14:19:55	16:58:35	19:37:18	19:39: 1	200.5 /	105.51	105.39	27.35	309.31	309.19	970.12	4.98	-4
28. Oct.	1039	8:33:47	8:36: 9	10:29: 4	12:22: 0	12:24:22	691.7 /	71.53	70.93	26.66	342.38	341.79	970.64	4.97	-6
21. Oct.	1046	8:38:21	8:40:45	10:34:11	12:27:39	12:30: 4	-692.9 /	163.73	164.33	208.37	252.41	253.01	969.16	4.98	0
c 21. Apr.	1056	13:21:41	13:24:44	17:21:39	21:18:28	21:21:30	-7.3	60.80	60.80	150.39	239.98	239.99	948.57	6.05	-1
24. Oct.	1059	1:31: 7	1:32:49	4:12: 7	6:51:29	6:53:11	-193.7 /	129.24	129.36	207.75	286.14	286.26	969.69	4.98	-2
25. Oct.	1072	19:10:25	19:12:10	21:46:12	0:20:17	0:22: 3	301.6 /	99.10	98.90	27.08	315.27	315.07	970.19	4.97	-4
28. Oct.	1085	13:39:46	13:42:39	15:14:48	16:46:58	16:49:52	793.7 /	61.95	61.12	26.37	351.63	350.79	970.64	4.97	-6
19. Apr.	1089	14:33:56	14:40: 4	16:33:30	18:26:53	18:33: 1	826.7	0.14	358.85	330.09	301.33	300.03	949.16	6.03	1
21. Oct.	1092	13:10:59	13:13: 6	15:22: 9	17:31:14	17:33:21	-589.5 /	155.38	155.83	208.13	260.43	260.88	969.23	4.98	0
23. Apr.	1102	20: 5:49	20: 8:56	0: 0: 8	3:51:14	3:54:21	-209.3 /	73.27	73.43	150.63	227.83	228.00	948.54	6.05	-1
24. Oct.	1105	6:16:16	6:17:57	8:59:45	11:41:38	11:43:19	-91.4 /	122.90	122.96	207.49	292.03	292.08	969.75	4.98	-2
27. Oct.	1118	0: 4:18	0: 6: 9	2:33:22	5: 0:40	5: 2:30	403.7 /	92.39	92.12	26.81	321.50	321.23	970.24	4.97	-4
29. Oct.	1131	18:56: 3	19: 0:18	20: 1:39	21: 3: 1	21: 7:17	893.5 /	49.78	48.39	26.08	3.77	2.39	970.70	4.97	-6
20. Apr.	1135	20:17:26	20:21:27	23:18:35	2:15:39	2:19:39	622.7	19.60	18.97	330.31	281.65	281.02	949.11	6.04	1
22. Oct.	1138	17:48:27	17:50:24	20:11: 7	22:31:54	22:33:51	-486.4 /	147.85	148.19	207.88	267.57	267.91	969.24	4.98	0
23. Apr.	1148	3: 7:14	3:10:37	6:43:55	10:17: 8	10:20:31	-413.1	86.50	86.85	150.89	214.92	215.27	948.46	6.06	-1
25. Oct.	1151	11: 4:39	11: 6:19	13:48:47	16:31:18	16:32:59	12.1 /	116.55	116.54	27.23	297.92	297.91	969.80	4.98	-2
27. Oct.	1164	4:59: 0	5: 0:57	7:19: 5	9:37:15	9:39:12	504.6 /	85.40	85.04	26.53	328.02	327.66	970.32	4.97	-4
21. Oct.	1171	6:11:24	6:15:32	7:20:36	8:25:42	8:29:50	-884.1 /	183.49	184.80	208.25	231.71	233.02	968.74	4.98	2
21. Apr.	1181	2:24:12	2:27:35	5:58:46	9:29:50	9:33:13	421.6 /	34.32	33.96	330.54	267.12	266.76	949.07	6.04	1
23. Oct.	1184	22:29:22	22:31:12	1: 0:45	3:30:21	3:32:11	-382.4 /	140.76	141.02	207.63	274.24	274.50	969.29	4.98	0
24. Apr.	1194	10:28:38	10:32:41	13:31:14	16:29:43	16:33:45	-621.5	101.74	102.38	151.14	199.91	200.55	948.44	6.06	-1
25. Oct.	1197	15:53:11	15:54:53	18:36: 8	21:17:28	21:19: 9	114.4 /	110.25	110.18	26.96	303.74	303.67	969.81	4.98	-2
28. Oct.	1210	9:58:24	10: 0:33	12: 6:26	14:12:22	14:14:31	607.4 /	77.75	77.28	26.24	335.21	334.73	970.32	4.97	-4
21. Oct.	1217	10:29:54	10:32:45	12: 8:33	13:44:23	13:47:14	-780.7 /	171.33	172.13	208.01	243.90	244.70	968.78	4.98	2
22. Apr.	1227	8:51:46	8:54:52	12:44:49	16:34:37	16:37:44	217.2	47.60	47.43	330.78	254.13	253.96	948.97	6.04	1
24. Oct.	1230	3:11:46	3:13:31	5:49:19	8:25:11	8:26:56	-280.2 /	134.11	134.29	207.37	280.45	280.63	969.34	4.98	0
24. Apr.	1240	18:14: 0	18:20:14	20:14:23	22: 8:31	22:14:45	-826.5	121.39	122.70	151.42	180.14	181.44	948.36	6.06	-1
26. Oct.	1243	20:43:25	20:45: 8	23:23:21	2: 1:37	2: 3:20	216.2 /	103.90	103.77	26.68	309.60	309.46	969.88	4.98	-2
28. Oct.	1256	15: 1:26	15: 3:53	16:53:43	18:43:35	18:46: 2	709.3 /	69.31	68.68	25.94	343.21	342.58	970.34	4.97	-4
22. Oct.	1263	14:59: 0	15: 1:21	16:57:31	18:53:44	18:56: 5	-677.4 /	161.86	162.43	207.77	253.10	253.67	968.84	4.98	2
22. Apr.	1273	15:21:28	15:24:30	19:20:57	23:17:17	23:20:19	17.4	59.95	59.94	331.03	242.13	242.11	948.91	6.05	1
24. Oct.	1276	7:53:55	7:55:37	10:35:34	13:15:34	13:17:17	-178.3 /	127.68	127.79	207.11	286.42	286.53	969.41	4.98	0
27. Oct.	1289	1:34:40	1:36:26	4: 9:39	6:42:55	6:44:42	318.0 /	97.39	97.19	26.40	315.61	315.40	969.89	4.97	-2
29. Oct.	1302	20:10:14	20:13:15	21:41:17	23: 9:21	23:12:22	810.2 /	59.50	58.61	25.64	352.68	351.79	970.38	4.97	-4
20. Apr.	1306	16:54:14	17: 0:46	18:46:11	20:31:33	20:38: 6	843.4	358.73	357.32	330.70	304.09	302.68	949.48	6.03	3

22. Oct.	1309	19:32:59	19:35: 5	21:46: 2	23:57: 3	23:59: 8	-575.3 /	153.74	154.17	207.51	260.85	261.28	968.87	4.98	2
24. Apr.	1319	22: 9:55	22:13: 1	2: 5: 4	5:56:59	6: 0: 5	-186.4 /	72.51	72.65	151.29	229.92	230.07	948.82	6.05	1
25. Oct.	1322	12:39:25	12:41: 6	15:23:16	18: 5:31	18: 7:13	-75.6 /	121.31	121.36	206.83	292.31	292.35	969.44	4.98	0
28. Oct.	1335	6:27:46	6:29:37	8:55:43	11:21:51	11:23:42	419.5 /	90.65	90.37	26.11	321.85	321.56	969.96	4.97	-2
m 21. Oct.	1342	--	--	8:53:49	--	--	-973.7 /	--	--	207.90	--	--	968.41	4.98	4
30. Oct.	1348	1:29: 6	1:33:56	2:27:35	3:21:13	3:26: 4	910.9 /	46.31	44.71	25.34	5.96	4.36	970.42	4.97	-4
21. Apr.	1352	22:25:46	22:29:53	1:21: 8	4:12:18	4:16:25	647.3 /	18.27	17.59	330.94	284.29	283.61	949.43	6.03	3
24. Oct.	1355	0:11: 7	0:13: 3	2:35:22	4:57:44	4:59:40	-471.2 /	146.20	146.53	207.25	267.97	268.29	968.98	4.98	2
24. Apr.	1365	5:10:25	5:13:46	8:49:13	12:24:34	12:27:54	-392.1 /	85.76	86.10	151.56	217.02	217.35	948.79	6.05	1
25. Oct.	1368	17:26:25	17:28: 5	20:10:38	22:53:15	22:54:56	26.7 /	115.01	115.00	26.55	298.11	298.09	969.47	4.98	0
28. Oct.	1381	11:24:49	11:26:48	13:43:14	15:59:43	16: 1:42	521.6 /	83.50	83.12	25.81	328.50	328.12	969.96	4.97	-2
21. Oct.	1388	12:28:14	12:32: 4	13:42:49	14:53:34	14:57:24	-868.8 /	180.84	182.04	207.64	233.25	234.45	968.45	4.98	4
22. Apr.	1398	4:32:42	4:36: 6	8: 3:54	11:31:35	11:34:59	444.8 /	33.41	33.03	331.19	269.35	268.96	949.36	6.04	3
24. Oct.	1401	4:50:58	4:52:47	7:23:28	9:54:13	9:56: 3	-368.2 /	139.21	139.46	206.98	274.50	274.74	969.03	4.98	2
25. Apr.	1411	12:23: 4	12:26:59	15:30:58	18:34:52	18:38:47	-594.6 /	100.32	100.91	151.83	202.76	203.35	948.70	6.06	1
27. Oct.	1414	22:15:45	22:17:26	0:58:30	3:39:39	3:41:20	129.6 /	108.66	108.58	26.27	303.95	303.87	969.57	4.98	0
29. Oct.	1427	16:25:42	16:27:52	18:31:36	20:35:22	20:37:32	623.5 /	75.78	75.28	25.50	335.73	335.23	970.03	4.97	-2
22. Oct.	1434	16:50:52	16:53:38	18:32:55	20:12:14	20:15: 0	-765.7 /	169.26	170.02	207.39	244.75	245.51	968.51	4.98	4
22. Apr.	1444	10:50: 4	10:53:12	14:40:52	18:28:25	18:31:32	246.2 /	46.47	46.28	331.43	256.61	256.41	949.30	6.04	3
25. Oct.	1447	9:31:55	9:33:39	12:10:22	14:47: 8	14:48:54	-264.8 /	132.50	132.67	206.70	280.73	280.90	969.08	4.98	2
25. Apr.	1457	20: 3: 3	20: 8:44	22:14: 5	0:19:25	0:25: 6	-800.3 /	119.05	120.20	152.11	184.03	185.18	948.68	6.06	1
27. Oct.	1460	3: 6:22	3: 8: 6	5:45:47	8:23:33	8:25:16	232.4 /	102.21	102.06	25.97	309.88	309.73	969.59	4.98	0
29. Oct.	1473	21:30:37	21:33: 8	23:19:58	1: 6:50	1: 9:21	725.6 /	67.13	66.47	25.19	343.92	343.26	970.09	4.97	-2
22. Oct.	1480	21:19:56	21:22:15	23:20:57	1:19:41	1:22: 0	-662.4 /	160.02	160.57	207.12	253.67	254.22	968.53	4.98	4
23. Apr.	1490	17:28:45	17:31:47	21:27:38	1:23:21	1:26:23	39.8 /	59.28	59.25	331.71	244.16	244.13	949.24	6.04	3
25. Oct.	1493	14:16:13	14:17:56	16:58:30	19:39: 8	19:40:51	-162.4 /	126.05	126.15	206.42	286.69	286.79	969.10	4.98	2
28. Oct.	1506	7:59:48	8: 1:35	10:33:53	13: 6:15	13: 8: 2	335.1 /	95.59	95.38	25.67	315.96	315.75	969.64	4.97	0
31. Oct.	1519	2:39:27	2:42:38	4: 6:15	5:29:53	5:33: 5	826.6 /	56.93	55.97	24.87	353.78	352.82	970.13	4.97	-2
21. Apr.	1523	19:11:57	19:19:17	20:52:10	22:25: 2	22:32:22	866.7 /	356.28	354.66	331.35	308.05	306.43	949.81	6.02	5
24. Oct.	1526	1:53:54	1:55:58	4: 9: 2	6:22: 8	6:24:13	-559.1 /	151.92	152.34	206.85	261.36	261.78	968.62	4.98	4
24. Apr.	1536	0:15:34	0:18:38	4:11:17	8: 3:49	8: 6:53	-164.4 /	71.85	71.98	151.98	231.98	232.11	949.20	6.05	3
26. Oct.	1539	19: 2: 7	19: 3:48	21:46:20	0:28:55	0:30:36	-58.8 /	119.62	119.66	206.13	292.60	292.63	969.13	4.98	2
28. Oct.	1552	12:55:14	12:57: 6	15:21:54	17:46:44	17:48:37	436.4 /	88.79	88.49	25.36	322.23	321.93	969.64	4.97	0
22. Oct.	1559	14:46:37	14:59:16	15:15: 2	15:30:48	15:43:27	-958.6 /	197.38	201.74	207.26	212.78	217.14	968.08	4.98	6
31. Oct.	1565	8: 4:13	8:10: 0	8:54: 8	9:38:17	9:44: 3	928.6 /	42.32	40.38	24.55	8.72	6.78	970.14	4.97	-2
22. Apr.	1569	0:42:15	0:46:28	3:32:51	6:19:10	6:23:23	666.2 /	17.39	16.68	331.61	286.54	285.82	949.75	6.03	5
24. Oct.	1572	6:30:29	6:32:24	8:56:16	11:20:13	11:22: 7	-455.7 /	144.50	144.82	206.57	268.32	268.64	968.64	4.98	4
25. Apr.	1582	7:12:58	7:16:16	10:53:59	14:31:37	14:34:54	-367.9 /	84.88	85.19	152.26	219.34	219.65	949.08	6.05	3
----- (Greg. cal.) -----															
6. Nov.	1585	23:50: 6	23:51:47	2:34:22	5:17: 2	5:18:43	43.5 /	113.31	113.28	25.83	298.38	298.35	969.20	4.98	2
8. Nov.	1598	17:53:40	17:55:41	20:10:15	22:24:52	22:26:53	539.2 /	81.49	81.09	25.05	329.00	328.61	969.70	4.97	0
1. Nov.	1605	18:45:54	18:49:32	20: 4:39	21:19:48	21:23:26	-855.9 /	178.59	179.71	206.99	234.28	235.40	968.15	4.98	6
3. May	1615	6:43: 3	6:46:31	10:10:39	13:34:42	13:38: 9	468.4 /	32.49	32.08	331.87	271.66	271.25	949.67	6.03	5
4. Nov.	1618	11:10: 1	11:11:50	13:43:42	16:15:39	16:17:27	-352.9 /	137.56	137.79	206.28	274.78	275.01	968.70	4.98	4

5. May	1628	14:21:15	14:25:3	17:33:24	20:41:41	20:45:29	-571.0	99.24	99.79	152.55	205.32	205.87	949.05	6.05	3
7. Nov.	1631	4:39:27	4:41:9	7:21:57	10:2:49	10:4:31	146.4 /	106.92	106.83	25.53	304.23	304.14	969.23	4.98	2
9. Nov.	1644	22:54:13	22:56:26	0:57:41	2:58:57	3:1:11	641.1 /	73.63	73.11	24.73	336.34	335.82	969.73	4.97	0
3. Nov.	1651	23:7:47	23:10:28	0:53:3	2:35:39	2:38:20	-750.7 /	167.21	167.94	206.72	245.50	246.22	968.20	4.98	6
3. May	1661	13:5:39	13:8:47	16:54:49	20:40:44	20:43:52	263.2	46.12	45.91	332.14	258.38	258.17	949.61	6.03	5
4. Nov.	1664	15:53:14	15:54:59	18:32:31	21:10:7	21:11:51	-250.4 /	130.92	131.08	205.99	280.90	281.06	968.75	4.98	4
7. May	1674	21:56:35	22:1:51	0:16:37	2:31:21	2:36:37	-775.4 /	117.11	118.15	152.85	187.55	188.59	948.96	6.05	3
7. Nov.	1677	9:32:11	9:33:55	12:11:3	14:48:14	14:49:58	248.7 /	100.46	100.31	25.22	310.13	309.97	969.28	4.98	2
10. Nov.	1690	3:56:54	3:59:30	5:43:9	7:26:49	7:29:25	742.1 /	64.85	64.15	24.40	344.65	343.96	969.77	4.97	0
3. Nov.	1697	3:38:14	3:40:30	5:41:43	7:42:57	7:45:14	-647.1 /	158.13	158.66	206.44	254.21	254.74	968.29	4.98	6
5. May	1707	19:33:49	19:36:50	23:31:53	3:26:48	3:29:50	64.5	58.51	58.46	332.42	246.38	246.33	949.57	6.04	5
6. Nov.	1710	20:38:48	20:40:31	23:21:42	2:2:58	2:4:40	-145.2 /	124.30	124.38	205.69	287.00	287.08	968.83	4.98	4
9. Nov.	1723	14:25:32	14:27:19	16:58:45	19:30:15	19:32:3	350.6 /	93.85	93.62	24.90	316.18	315.96	969.31	4.97	2
11. Nov.	1736	9:7:48	9:11:10	10:30:2	11:48:54	11:52:17	843.0 /	54.23	53.19	24.07	354.94	353.91	969.80	4.97	0
2. May	1740	21:34:19	21:42:47	23:1:47	0:20:46	0:29:13	888.8	353.67	351.75	332.04	312.34	310.42	950.18	6.02	7
5. Nov.	1743	8:12:51	8:14:53	10:30:2	12:45:14	12:47:17	-542.4 /	150.04	150.44	206.15	261.85	262.25	968.30	4.98	6
6. May	1753	2:16:42	2:19:45	6:13:1	10:6:9	10:9:12	-138.6 /	71.01	71.11	152.71	234.30	234.41	949.48	6.04	5
7. Nov.	1756	1:26:14	1:27:55	4:10:45	6:53:38	6:55:19	-42.6 /	117.92	117.95	205.38	292.82	292.84	968.88	4.98	4
9. Nov.	1769	19:21:17	19:23:11	21:46:33	0:9:57	0:11:51	454.0 /	86.84	86.53	24.58	322.63	322.32	969.40	4.97	2
2. Nov.	1776	20:56:14	21:3:57	21:36:22	22:8:46	22:16:29	-943.8 /	192.58	195.20	206.58	217.97	220.59	967.77	4.98	8
12. Nov.	1782	14:35:56	14:43:20	15:16:25	15:49:31	15:56:55	944.6 /	38.05	35.52	23.73	11.94	9.40	969.86	4.97	0
4. May	1786	2:56:41	3:1:2	5:41:18	8:21:31	8:25:51	689.0	16.18	15.42	332.31	289.21	288.44	950.10	6.02	7
5. Nov.	1789	12:51:39	12:53:33	15:18:58	17:44:27	17:46:21	-439.9 /	142.75	143.05	205.85	268.65	268.95	968.36	4.98	6
7. May	1799	9:7:4	9:10:19	12:50:32	16:30:38	16:33:52	-339.5 /	83.78	84.06	153.00	221.95	222.23	949.46	6.04	5
9. Nov.	1802	6:14:20	6:16:1	8:58:36	11:41:15	11:42:57	60.9 /	111.52	111.49	25.07	298.66	298.62	968.90	4.98	4
12. Nov.	1815	0:18:43	0:20:45	2:33:28	4:46:13	4:48:16	556.1 /	79.48	79.07	24.25	329.43	329.01	969.42	4.97	2
5. Nov.	1822	1:0:52	1:4:17	2:24:47	3:45:19	3:48:43	-838.8 /	175.88	176.91	206.30	235.69	236.71	967.82	4.98	8
5. May	1832	9:0:31	9:4:0	12:25:23	15:46:40	15:50:9	484.7 /	32.10	31.66	332.59	273.52	273.09	950.02	6.03	7
7. Nov.	1835	17:32:56	17:34:44	20:7:49	22:40:58	22:42:46	-336.4 /	135.80	136.02	205.55	275.08	275.30	968.38	4.98	6
8. May	1845	16:20:41	16:24:23	19:36:49	22:49:10	22:52:52	-547.2 /	98.21	98.73	153.31	207.89	208.41	949.36	6.05	5
9. Nov.	1848	11:5:28	11:7:10	13:47:39	16:28:13	16:29:56	163.0 /	105.15	105.05	24.75	304.45	304.35	968.93	4.98	4
12. Nov.	1861	5:18:34	5:20:51	7:19:35	9:18:22	9:20:38	657.9 /	71.48	70.93	23.91	336.89	336.35	969.46	4.97	2
5. Nov.	1868	5:25:43	5:28:19	7:14:10	9:0:3	9:2:39	-735.1 /	165.11	165.79	206.01	246.22	246.91	967.89	4.98	8
6. May	1878	15:12:57	15:16:6	18:59:52	22:43:30	22:46:39	287.3	45.35	45.12	332.88	260.64	260.41	949.95	6.03	7
8. Nov.	1881	22:16:59	22:18:44	0:57:13	3:35:47	3:37:31	-231.8 /	129.05	129.19	205.24	281.28	281.43	968.46	4.98	6
10. May	1891	23:54:24	23:59:24	2:21:36	4:43:47	4:48:46	-753.6	115.67	116.62	153.63	190.63	191.59	949.31	6.05	5
10. Nov.	1894	15:56:31	15:58:16	18:34:42	21:11:12	21:12:57	266.2 /	98.60	98.43	24.43	310.42	310.25	968.96	4.97	4
14. Nov.	1907	10:23:56	10:26:38	12:6:51	13:47:7	13:49:48	758.6 /	62.47	61.73	23.57	345.41	344.67	969.47	4.97	2
7. Nov.	1914	9:57:23	9:59:37	12:3:23	14:7:11	14:9:25	-630.7 /	156.14	156.65	205.71	254.76	255.27	967.92	4.98	8
8. May	1924	21:44:9	21:47:10	1:41:22	5:35:25	5:38:26	84.6	58.05	57.99	333.17	248.36	248.29	949.86	6.03	7
10. Nov.	1927	3:2:30	3:4:12	5:45:57	8:27:46	8:29:28	-128.7 /	122.55	122.63	204.92	287.21	287.29	968.48	4.98	6
m 11. May	1937	--	--	8:59:41	--	--	-955.5	--	--	153.95	--	--	949.21	6.05	5
11. Nov.	1940	20:49:22	20:51:11	23:21:32	1:51:56	1:53:45	368.5 /	91.90	91.66	24.09	316.53	316.29	969.05	4.97	4
14. Nov.	1953	15:37:44	15:41:23	16:54:17	18:7:11	18:10:50	861.8 /	51.07	49.93	23.22	356.51	355.37	969.52	4.97	2

6. May 1957	23:59:53	0: 9:54	1:14:46	2:19:36	2:29:37	907.3	351.20	348.87	332.77	316.67	314.34	950.46	6.01	9
7. Nov. 1960	14:34:31	14:36:32	16:53:27	19:10:25	19:12:27	-527.9 /	148.29	148.67	205.40	262.13	262.52	968.02	4.98	8
9. May 1970	4:20:11	4:23:13	8:16:50	12:10:20	12:13:22	-114.1	70.29	70.37	153.47	236.57	236.66	949.81	6.04	7
10. Nov. 1973	7:48:13	7:49:54	10:32:58	13:16: 7	13:17:49	-26.4 /	116.19	116.21	204.60	293.00	293.01	968.55	4.98	6
13. Nov. 1986	1:44: 5	1:46: 0	4: 7:57	6:29:57	6:31:52	470.5 /	84.90	84.58	23.76	322.94	322.61	969.05	4.97	4
6. Nov. 1993	3: 7:14	3:13:10	3:57:31	4:41:53	4:47:49	-926.7 /	188.23	190.20	205.86	221.52	223.50	967.49	4.99	10
15. Nov. 1999	21:16:48	21:32:36	21:41:57	21:51:19	22: 7: 7	963.0 /	31.70	26.17	22.87	22.87	14.03	969.57	4.97	2
7. May 2003	5:14:15	5:18:44	7:53:28	10:28: 9	10:32:37	708.3	15.25	14.44	333.06	291.67	290.86	950.40	6.02	9
8. Nov. 2006	19:13:17	19:15:10	21:42: 9	0: 9:13	0:11: 6	-422.9 /	140.88	141.17	205.09	269.01	269.30	968.05	4.98	8
9. May 2016	11:13:36	11:16:49	14:58:33	18:40:11	18:43:22	-318.5	83.21	83.47	153.78	224.10	224.36	949.72	6.04	7
11. Nov. 2019	12:36:43	12:38:24	15:20:57	18: 3:35	18: 5:16	75.9 /	109.84	109.79	24.27	298.76	298.71	968.62	4.98	6
13. Nov. 2032	6:42:26	6:44:30	8:55:22	11: 6:17	11: 8:22	572.1 /	77.48	77.05	23.41	329.77	329.34	969.13	4.97	4
7. Nov. 2039	7:19:30	7:22:44	8:48: 4	10:13:25	10:16:39	-822.3 /	173.30	174.25	205.56	236.87	237.82	967.54	4.98	10
7. May 2049	11: 5:22	11: 8:54	14:25:43	17:42:26	17:45:58	511.8	30.96	30.49	333.34	276.20	275.73	950.35	6.02	9
9. Nov. 2052	23:55:24	23:57:12	2:31:31	5: 5:55	5: 7:42	-318.7 /	133.92	134.12	204.77	275.42	275.62	968.13	4.98	8
10. May 2062	18:18:36	18:22:13	21:38:53	0:55:27	0:59: 4	-520.5	97.06	97.54	154.10	210.67	211.14	949.69	6.04	7
11. Nov. 2065	17:26:32	17:28:15	20: 8:20	22:48:30	22:50:13	180.7 /	103.28	103.16	23.94	304.71	304.60	968.66	4.98	6
14. Nov. 2078	11:45: 6	11:47:26	13:43:36	15:39:48	15:42: 8	674.3 /	69.29	68.72	23.06	337.40	336.83	969.17	4.97	4
7. Nov. 2085	11:45:39	11:48:12	13:37:22	15:26:34	15:29: 7	-718.5 /	162.90	163.56	205.25	246.95	247.60	967.57	4.98	10
8. May 2095	17:24: 2	17:27:12	21: 8:40	0:49:59	0:53: 9	309.8	44.71	44.46	333.65	262.84	262.59	950.30	6.02	9
10. Nov. 2098	4:38:48	4:40:32	7:19:52	9:59:17	10: 1: 1	-214.7 /	127.22	127.36	204.45	281.53	281.67	968.15	4.98	8
12. May 2108	1:43:45	1:48:26	4:19:33	6:50:38	6:55:18	-724.7	113.71	114.58	154.43	194.28	195.15	949.61	6.05	7
14. Nov. 2111	22:19:23	22:21: 8	0:56:51	3:32:38	3:34:24	283.3 /	96.72	96.54	23.60	310.65	310.47	968.72	4.98	6
15. Nov. 2124	16:54: 5	16:56:54	18:32:40	20: 8:28	20:11:17	778.9 /	59.64	58.85	22.70	346.55	345.76	969.23	4.97	4
9. Nov. 2131	16:18:41	16:20:53	18:27: 7	20:33:24	20:35:36	-614.4 /	154.14	154.62	204.94	255.26	255.74	967.64	4.98	10
10. May 2141	23:51:40	23:54:41	3:47:48	7:40:46	7:43:47	108.1	57.42	57.34	333.95	250.57	250.49	950.22	6.03	9
11. Nov. 2144	9:22:53	9:24:35	12: 6:50	14:49:10	14:50:52	-112.7 /	120.80	120.87	204.12	287.36	287.43	968.21	4.98	8
13. May 2154	10: 9: 4	10:24:30	11: 3:26	11:42:22	11:57:47	-930.6	141.62	145.27	154.77	164.26	167.92	949.60	6.05	7
14. Nov. 2157	3:14: 6	3:15:56	5:45: 5	8:14:17	8:16: 7	386.9 /	89.87	89.62	23.25	316.88	316.62	968.73	4.97	6
16. Nov. 2170	22:11:11	22:15:11	23:21:26	0:27:41	0:31:41	880.4 /	47.70	46.43	22.34	358.25	356.97	969.25	4.97	4
8. May 2174	2:30:42	2:43:27	3:31:41	4:19:56	4:32:40	924.4	348.49	345.47	333.53	321.60	318.58	950.80	6.01	11
9. Nov. 2177	20:54: 2	20:56: 2	23:15: 2	1:34: 7	1:36: 7	-509.8 /	146.25	146.62	204.62	262.62	262.98	967.67	4.98	10
11. May 2187	6:33:51	6:36:52	10:30:32	14:24: 4	14:27: 5	-96.0	69.99	70.07	154.28	238.49	238.56	950.11	6.03	9
12. Nov. 2190	14: 9:54	14:11:35	16:54:52	19:38:14	19:39:56	-9.1 /	114.35	114.36	203.78	293.20	293.21	968.25	4.98	8
16. Nov. 2203	8:11:41	8:13:38	10:33:56	12:54:18	12:56:15	488.6 /	82.81	82.47	22.89	323.32	322.98	968.78	4.97	6
9. Nov. 2210	9:22:18	9:27:23	10:20:18	11:13:13	11:18:17	-911.0 /	184.69	186.35	205.10	223.86	225.52	967.15	4.99	12
9. May 2220	7:31: 2	7:35:39	10: 4:17	12:32:51	12:37:29	728.5	14.21	13.35	333.83	294.31	293.45	950.72	6.01	11
12. May 2223	1:33: 8	1:35: 0	4: 3:29	6:32: 2	6:33:54	-406.5 /	139.02	139.30	204.29	269.29	269.56	967.75	4.98	10
12. May 2233	13:21:34	13:24:43	17: 7:57	20:51: 4	20:54:14	-296.2 /	82.60	82.84	154.60	226.35	226.59	950.07	6.03	9
13. Nov. 2236	18:59: 7	19: 0:48	21:43:13	0:25:42	0:27:24	95.4 /	107.84	107.78	23.43	299.08	299.02	968.29	4.98	8
16. Nov. 2249	13:11: 0	13:13: 7	15:21:35	17:30: 5	17:32:13	591.6 /	75.16	74.70	22.53	330.36	329.91	968.81	4.97	6
9. Nov. 2256	13:36: 4	13:39:10	15: 8:33	16:37:58	16:41: 4	-807.5 /	170.96	171.85	204.79	237.72	238.62	967.24	4.99	12
10. May 2266	13:26:27	13:30: 3	16:43:33	19:56:57	20: 0:32	529.7	30.48	30.00	334.14	278.28	277.79	950.68	6.01	11
12. Nov. 2269	6:14:32	6:16:19	8:51:44	11:27:13	11:29: 1	-302.5 /	132.11	132.30	203.96	275.61	275.81	967.80	4.98	10

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13. May	2279	20:25: 1	20:28:33	23:48:14	3: 7:49	3:11:21	-499.5	96.39	96.84	154.93	213.03	213.48	949.98	6.04	9
15. Nov.	2282	23:51: 4	23:52:47	2:32:27	5:12:12	5:13:55	197.9 /	101.39	101.27	23.08	304.90	304.78	968.35	4.98	8
17. Nov.	2295	18:14:47	18:17:11	20: 9:58	22: 2:47	22: 5:12	694.6 /	66.70	66.10	22.17	338.24	337.63	968.87	4.97	6
11. Nov.	2302	18: 3: 6	18: 5:34	19:57:55	21:50:18	21:52:47	-701.9 /	160.70	161.32	204.46	247.60	248.23	967.31	4.98	12
11. May	2312	19:36: 9	19:39:20	23:18:23	2:57:20	3: 0:30	331.4	44.14	43.87	334.45	265.03	264.76	950.58	6.02	11
14. Nov.	2315	10:58:11	10:59:55	13:39:59	16:20: 9	16:21:53	-199.3 /	125.47	125.60	203.62	281.64	281.76	967.89	4.98	10
15. May	2325	3:43:52	3:48:20	6:25:56	9: 3:29	9: 7:57	-701.5	112.44	113.24	155.27	197.31	198.10	949.96	6.04	9
16. Nov.	2328	4:44:27	4:46:13	7:21: 7	9:56: 4	9:57:50	301.3 /	94.73	94.54	22.72	310.91	310.72	968.40	4.98	8
19. Nov.	2341	23:23:14	23:26:11	0:57:48	2:29:25	2:32:22	796.4 /	56.96	56.11	21.80	347.48	346.63	968.89	4.97	6
12. Nov.	2348	22:36:10	22:38:20	0:47: 6	2:55:56	2:58: 6	-596.7 /	152.02	152.48	204.13	255.78	256.24	967.34	4.98	12
13. May	2358	2: 4:20	2: 7:21	5:59:19	9:51: 8	9:54: 8	129.5	56.95	56.85	334.77	252.70	252.60	950.52	6.02	11
14. Nov.	2361	15:45: 6	15:46:48	18:29:33	21:12:24	21:14: 6	-93.9 /	118.84	118.90	203.27	287.64	287.69	967.92	4.98	10
16. May	2371	11:50:21	12: 0:27	13: 6:24	14:12:20	14:22:26	-906.1	137.03	139.36	155.62	171.88	174.21	949.86	6.04	9
17. Nov.	2374	9:40:55	9:42:47	12:10:43	14:38:43	14:40:34	404.5 /	87.85	87.58	22.36	317.15	316.88	968.48	4.97	8
20. Nov.	2387	4:40:42	4:45:10	5:44:16	6:43:23	6:47:51	898.0 /	44.21	42.76	21.42	0.08	358.63	968.97	4.97	6
m 11. May	2391	5: 7: 6	5:34:22	5:46: 7	5:57:52	6:25: 7	943.9	343.86	337.22	334.33	331.44	324.81	951.15	6.00	13
13. Nov.	2394	3:13:45	3:15:43	5:36:41	7:57:43	7:59:41	-492.3 /	144.24	144.59	203.80	263.00	263.35	967.41	4.98	12
13. May	2404	8:38:54	8:41:54	12:35:38	16:29:14	16:32:14	-71.4	69.34	69.40	155.10	240.81	240.87	950.50	6.03	11
15. Nov.	2407	20:34:47	20:36:29	23:19:55	2: 3:27	2: 5: 8	10.9 /	112.31	112.30	22.91	293.53	293.52	967.97	4.98	10
17. Nov.	2420	14:38:20	14:40:19	16:58:40	19:17: 5	19:19: 4	508.8 /	80.52	80.15	21.99	323.83	323.47	968.49	4.97	8
11. Nov.	2427	15:34:18	15:38:49	16:39:13	17:39:39	17:44: 9	-894.8 /	181.34	182.79	204.31	225.82	227.27	966.88	4.99	14
11. May	2437	9:56:27	10: 1:13	12:24:41	14:48: 6	14:52:51	744.6	13.55	12.64	334.64	296.65	295.74	951.09	6.01	13
13. Nov.	2440	7:53:42	7:55:33	10:25:35	12:55:41	12:57:32	-388.3 /	137.02	137.28	203.45	269.63	269.88	967.43	4.98	12
14. May	2450	15:31:11	15:34:19	19:18:45	23: 3: 4	23: 6:11	-275.3	82.13	82.35	155.45	228.54	228.76	950.42	6.03	11
16. Nov.	2453	1:25:43	1:27:25	4: 9:39	6:51:57	6:53:39	114.4 /	105.84	105.77	22.56	299.34	299.27	968.00	4.98	10
18. Nov.	2466	19:38:53	19:41: 3	21:46:57	23:52:55	23:55: 5	611.2 /	72.77	72.29	21.62	330.95	330.48	968.54	4.97	8
11. Nov.	2473	19:51:35	19:54:33	21:28:30	23: 2:29	23: 5:26	-789.6 /	168.33	169.17	203.97	238.78	239.61	966.91	4.99	14
12. May	2483	15:44:56	15:48:34	18:58:31	22: 8:22	22:12: 0	548.1 /	29.99	29.48	334.97	280.46	279.95	950.97	6.01	13
14. Nov.	2486	12:36:32	12:38:18	15:14:52	17:51:32	17:53:18	-284.1 /	130.12	130.30	203.10	275.90	276.08	967.51	4.98	12
15. May	2496	22:29:21	22:32:49	1:55:27	5:17:58	5:21:26	-477.5	95.70	96.12	155.79	215.46	215.89	950.35	6.03	11
17. Nov.	2499	6:16:18	6:18: 2	8:57: 9	11:36:20	11:38: 4	216.8 /	99.36	99.22	22.19	305.16	305.02	968.05	4.98	10
20. Nov.	2512	0:42:24	0:44:53	2:34:13	4:23:35	4:26: 5	713.9 /	64.11	63.46	21.24	339.02	338.38	968.55	4.97	8
14. Nov.	2519	0:20:27	0:22:51	2:18:24	4:13:59	4:16:24	-684.4 /	158.42	159.01	203.63	248.26	248.85	966.95	4.98	14
14. May	2529	21:57: 8	22: 0:20	1:37:26	5:14:25	5:17:36	347.2	43.98	43.69	335.29	266.90	266.61	950.92	6.01	13
15. Nov.	2532	17:21:41	17:23:24	20: 4:19	22:45:19	22:47: 2	-179.6 /	123.43	123.54	202.75	281.96	282.07	967.52	4.98	12
17. May	2542	5:48:38	5:52:56	8:35:46	11:18:33	11:22:51	-680.9	111.51	112.26	156.15	200.03	200.78	950.24	6.04	11
18. Nov.	2545	11: 9:58	11:11:45	13:45:40	16:19:39	16:21:26	320.7 /	92.62	92.42	21.82	311.23	311.02	968.10	4.98	10
21. Nov.	2558	5:50:45	5:53:52	7:20:40	8:47:29	8:50:36	815.1 /	54.03	53.12	20.86	348.60	347.68	968.61	4.97	8
14. Nov.	2565	4:55:48	4:57:55	7: 9: 3	9:20:15	9:22:23	-579.8 /	149.93	150.37	203.29	256.20	256.64	967.05	4.98	14
15. May	2575	4:16:37	4:19:37	8:10:23	12: 0:59	12: 4: 0	149.2	56.61	56.50	335.63	254.76	254.64	950.87	6.02	13
17. Nov.	2578	22: 9:41	22:11:23	0:54:35	3:37:53	3:39:35	-75.2 /	116.86	116.91	202.39	287.86	287.91	967.61	4.98	12
17. May	2588	13:48:41	13:57: 2	15:18: 8	16:39:14	16:47:35	-886.3	134.43	136.32	156.51	176.69	178.58	950.21	6.04	11
19. Nov.	2591	16: 5: 6	16: 6:59	18:33:27	20:59:58	21: 1:51	424.4 /	85.63	85.34	21.44	317.55	317.26	968.11	4.97	10
22. Nov.	2604	11:13:20	11:18:36	12: 8: 7	12:57:38	13: 2:54	918.0 /	39.95	38.20	20.47	2.73	0.99	968.64	4.97	8

m 13. May 2608	--	9:34:10	--	9:36:7	8: 2:35	--	14:23:52	961.5	--	142.18	--	142.51	335.16	--	263.36	6.00	951.49	15
16. Nov. 2611	--	10:53:55	10:56:54	14:50:28	11:58:59	14:21:55	18:43:53	-474.4 /	69.04	69.04	69.08	155.97	202.93	263.36	263.69	4.98	967.11	14
16. May 2621	--	2:58:34	3: 0:16	5:43:49	8:27:26	8:27:26	8:29:8	-51.9	110.36	110.36	110.34	22.02	293.70	293.68	293.68	6.02	950.79	13
18. Nov. 2624	--	21: 3: 5	21: 5: 6	23:21:39	5:43:49	8:27:26	8:29:8	28.9 /	78.33	77.95	77.95	21.06	293.70	293.68	293.68	4.98	967.67	12
20. Nov. 2637	--	21:48:53	21:52:57	23: 0:41	23:21:39	1:38:15	1:40:15	526.7 /	177.94	179.21	179.21	203.47	324.18	323.79	323.79	4.97	968.19	10
13. Nov. 2644	--	12:15:36	12:20:34	14:36:40	23: 0:41	0: 8:26	0:12:29	-876.6 /	12.29	11.31	11.31	335.49	299.67	298.69	298.69	6.00	966.55	16
14. May 2654	--	14:16:20	14:18:10	16:49:46	14:36:40	16:52:42	16:57:41	766.4 /	134.91	135.15	135.15	202.58	270.00	270.24	270.24	6.00	951.40	15
16. Nov. 2657	--	17:35:32	17:38:38	21:24:18	16:49:46	19:21:26	19:23:17	-368.8 /	81.53	81.73	81.73	156.32	230.92	231.12	231.12	6.02	967.17	14
17. May 2667	--	7:47:29	7:49:12	10:31:11	21:24:18	13:13:15	13:14:58	-251.7	103.86	103.78	103.78	21.65	299.51	299.43	299.43	6.02	950.73	13
19. Nov. 2670	--	2: 3:39	2: 5:52	4: 9:10	10:31:11	6:12:31	6:14:44	132.4 /	70.36	69.86	69.86	20.68	331.49	330.99	330.99	4.98	967.73	12
22. Nov. 2683	--	2:10:27	2:13:17	3:51:56	4: 9:10	5:30:37	5:33:26	630.1 /	165.56	166.34	166.34	203.12	239.89	240.67	240.67	4.97	968.24	10
15. Nov. 2690	--	18: 5:34	18: 9:15	21:15:50	3:51:56	0:22:21	0:26: 1	-770.0 /	29.64	29.10	29.10	335.83	282.54	282.01	282.01	4.99	966.60	16
15. May 2700	--	18:59:35	19: 1:21	21:39: 4	21:15:50	0:16:52	0:18:38	564.8	128.05	128.22	128.22	202.21	276.20	276.37	276.37	6.00	951.36	15
18. Nov. 2703	--	0:36: 0	0:39:25	4: 4:54	21:39: 4	7:30:16	7:33:40	-264.7 /	94.99	95.38	95.38	156.68	217.98	218.38	218.38	4.98	967.18	14
19. May 2713	--	12:39:44	12:41:28	15:19:54	4: 4:54	17:58:25	18: 0:10	-454.3	97.21	97.06	97.06	21.27	305.47	305.32	305.32	6.03	950.66	13
20. Nov. 2716	--	7: 8:39	7:11:13	8:57: 3	15:19:54	10:42:55	10:45:29	236.9 /	61.50	60.82	60.82	20.28	339.75	339.07	339.07	4.98	967.76	12
23. Nov. 2729	--	6:41:14	6:43:35	8:42:20	8:57: 3	10:42:55	10:45:29	732.5 /	156.06	156.62	156.62	202.76	248.91	249.47	249.47	4.97	968.31	10
16. Nov. 2736	--	0:12:28	0:15:41	3:50:21	8:42:20	10:41: 8	10:43:29	-666.0 /	43.58	43.28	43.28	336.16	269.06	268.75	268.75	6.01	951.28	16
17. May 2746	--	23:45: 7	23:46:50	2:28:31	3:50:21	7:24:52	7:28: 4	367.0 /	121.35	121.45	121.45	201.84	282.24	282.33	282.33	4.98	967.25	15
19. Nov. 2749	--	7:53:42	7:57:52	10:45:52	2:28:31	5:10:17	5:12: 0	-159.9 /	110.57	111.27	111.27	157.05	202.83	203.53	203.53	6.01	951.20	14
20. May 2759	--	17:33:43	17:35:31	20: 8:21	10:45:52	13:33:48	13:37:58	-659.3	90.43	90.21	90.21	20.88	311.56	311.34	311.34	4.98	967.78	13
21. Nov. 2762	--	12:21:26	12:24:45	13:45:45	20: 8:21	22:41:15	22:43: 3	340.6 /	50.73	49.72	49.72	19.89	350.05	349.04	349.04	4.98	967.78	12
24. Nov. 2775	--	11:15:35	11:17:40	13:31:21	13:45:45	15: 6:45	15:10: 5	835.8 /	147.67	148.09	148.09	202.40	256.72	257.14	257.14	6.01	966.73	10
17. Nov. 2782	--	6:37:14	6:40:14	10:29:47	13:31:21	15:45: 4	15:47:10	-560.6 /	56.48	56.35	56.35	336.51	256.68	256.55	256.55	4.98	966.73	16
17. May 2792	--	4:31:20	4:33: 2	7:16:37	10:29:47	14:19:11	14:22:12	166.0	114.82	114.85	114.85	201.47	288.08	288.12	288.12	6.01	951.20	15
20. Nov. 2795	--	15:44:15	15:51:24	17:26:52	7:16:37	10: 0:18	10: 2: 0	-56.1 /	131.83	133.41	133.41	157.42	181.44	183.01	183.01	4.98	967.28	14
20. May 2805	--	22:30: 6	22:32: 0	0:56:57	17:26:52	3:21:58	3:23:52	-862.9	83.41	83.10	83.10	20.49	317.89	317.58	317.58	6.03	950.52	13
22. Nov. 2808	--	0:12:42	--	0:31:36	0:56:57	3:21:58	3:23:52	443.6 /	196.44	--	--	202.95	--	209.45	209.45	4.97	967.85	12
m 16. Nov. 2815	--	17:51:36	17:58:27	18:35:13	0:31:36	--	0:50:30	-964.9 /	34.87	32.54	32.54	19.48	6.42	6.42	6.42	4.99	966.16	17
24. Nov. 2821	--	15:54:58	15:56:54	18:21:40	18:35:13	19:11:59	19:18:49	938.5 /	140.05	140.36	140.36	202.04	263.71	264.03	264.03	6.01	966.36	10
17. Nov. 2828	--	13: 6:24	13: 9:22	17: 2:39	18:21:40	20:46:30	20:48:26	-455.9 /	68.68	68.71	68.71	156.87	245.04	245.06	245.06	4.98	968.36	16
18. May 2838	--	9:18:47	9:20:29	12: 4: 5	17: 2:39	20:55:47	20:58:45	-31.1	108.31	108.28	108.28	21.09	293.90	293.87	293.87	6.01	951.11	15
20. Nov. 2841	--	3:28:33	3:30:35	5:44:59	12: 4: 5	14:47:45	14:49:27	47.9 /	75.95	75.55	75.55	20.10	324.65	324.24	324.24	4.98	967.35	14
23. Nov. 2854	--	14:43:55	14:49: 1	17: 0:40	5:44:59	7:59:26	8: 1:28	546.6 /	174.62	175.76	175.76	202.59	229.42	230.56	230.56	4.97	967.89	12
16. Nov. 2861	--	20:35:54	20:37:43	23:10:42	7:59:26	6:37:57	6:41:40	-857.7 /	11.96	10.93	10.93	336.37	301.81	300.78	300.78	4.99	966.27	17
16. May 2871	--	19:53:40	19:56:45	23:43: 6	14:47:45	19:12:16	19:17:22	778.6	132.88	133.11	133.11	201.66	270.22	270.45	270.45	5.99	951.74	18
18. Nov. 2874	--	14: 9:34	14:11:17	16:52:58	17: 0:40	19:12:16	19:17:22	-351.1 /	81.35	81.53	81.53	157.23	232.93	233.12	233.12	6.02	966.81	16
18. May 2884	--	8:31:27	8:33:44	10:34: 8	23:43: 6	3:29:19	3:32:23	-234.2	101.79	101.70	101.70	20.70	299.70	299.61	299.61	4.98	951.04	15
21. Nov. 2887	--	8:28:19	8:31: 3	10:13:40	16:52:58	19:34:44	19:36:27	151.3 /	67.82	67.28	67.28	19.70	332.12	331.58	331.58	6.02	967.38	14
24. Nov. 2900	--	20:25:12	20:28:56	23:31:17	10:34: 8	12:34:34	12:36:51	650.0 /	163.03	163.76	163.76	202.23	240.69	241.42	241.42	4.97	967.94	12
18. Nov. 2907	--	1:19:22	1:21: 7	3:59:53	8:31: 3	11:56:19	11:59: 3	-752.5 /	29.01	28.44	28.44	336.71	284.98	284.42	284.42	4.99	966.33	17
17. May 2917	--	2:46:40	2:50: 1	6:17:44	23:31:17	2:33:32	2:37:16	585.3	125.99	126.15	126.15	201.29	276.42	276.58	276.58	6.00	951.65	18
20. Nov. 2920	--	2:46:40	2:50: 1	6:17:44	6:40:29	6:38:44	6:40:29	-246.1 /	94.54	94.91	94.91	157.60	220.29	220.67	220.67	4.98	966.92	16
21. May 2930	--	2:46:40	2:50: 1	6:17:44	9:45:20	9:48:41	9:48:41	-434.3	94.54	94.91	94.91	157.60	220.29	220.67	220.67	6.02	951.00	15

22. Nov.	2933	19: 2:49	19: 4:35	21:42:20	0:20:10	0:21:55	255.7 /	95.11	94.95	20.31	305.67	305.51	967.46	4.98	14
25. Nov.	2946	13:38: 8	13:40:49	15:22:37	17: 4:26	17: 7: 7	752.4 /	58.67	57.94	19.29	340.65	339.92	967.95	4.97	12
18. Nov.	2953	12:58:21	13: 0:39	15: 2:35	17: 4:34	17: 6:52	-646.7 /	153.63	154.16	201.86	249.55	250.09	966.38	4.99	17
19. May	2963	2:31: 0	2:34:14	6: 6:17	9:38:13	9:41:27	386.9 /	43.20	42.87	337.07	271.26	270.94	951.61	6.00	18
21. Nov.	2966	6: 4:14	6: 5:57	8:48:19	11:30:45	11:32:28	-141.4 /	119.31	119.39	200.91	282.41	282.50	966.96	4.98	16
21. May	2976	9:57:19	10: 1:20	12:54:45	15:48: 6	15:52: 6	-634.7 /	109.48	110.14	157.98	205.82	206.48	950.90	6.02	15
24. Nov.	2979	23:58:20	0: 0: 9	2:31:53	5: 3:40	5: 5:30	359.5 /	88.26	88.03	19.91	311.80	311.56	967.54	4.98	14
25. Nov.	2992	18:52:55	18:56:30	20:11:23	21:26:17	21:29:53	855.5 /	47.36	46.25	18.88	351.52	350.41	968.06	4.97	12
19. Nov.	2999	17:34:26	17:36:30	19:52:29	22: 8:31	22:10:35	-542.5 /	145.46	145.86	201.48	257.10	257.50	966.41	4.98	17
20. May	3009	8:48:36	8:51:37	12:39:28	16:27:11	16:30:12	190.9 /	55.88	55.73	337.43	259.12	258.97	951.53	6.00	18
22. Nov.	3012	10:51:51	10:53:33	13:37:29	16:21:31	16:23:13	-36.8 /	112.73	112.75	200.52	288.28	288.30	967.02	4.98	16
23. May	3022	17:33:33	17:39:50	19:28:51	21:17:50	21:24: 7	-836.4 /	129.26	130.61	158.36	186.12	187.46	950.88	6.03	15
25. Nov.	3025	4:55:32	4:57:27	7:20:44	9:44: 4	9:46: 0	463.5 /	81.09	80.76	19.51	318.26	317.93	967.57	4.97	14
18. Nov.	3032	6:15:14	6:23:43	6:53: 7	7:22:32	7:31: 1	-945.6 /	188.95	191.81	202.05	212.29	215.15	965.88	4.99	19
28. Nov.	3038	0:31: 3	0:43:41	0:59:11	1:14:41	1:27:19	958.8 /	28.31	23.93	18.47	13.01	8.62	968.09	4.97	12
21. Nov.	3045	22:13: 3	22:14:57	0:41:37	3: 8:21	3:10:15	-436.5 /	137.84	138.14	201.11	264.07	264.37	966.45	4.98	17
21. May	3055	15:25:25	15:28:23	19:21:16	23:13:59	23:16:56	-14.3 /	68.60	68.61	157.80	246.98	246.99	951.47	6.01	18
23. Nov.	3058	15:42: 5	15:43:47	18:27:22	21:11: 1	21:12:43	66.7 /	106.23	106.19	20.12	294.06	294.02	967.03	4.98	16
26. Nov.	3071	9:56:42	9:58:47	12:10:45	14:22:47	14:24:52	567.6 /	73.44	73.01	19.10	325.20	324.77	967.61	4.97	14
19. Nov.	3078	10:18:37	10:22: 5	11:42:28	13: 2:52	13: 6:20	-839.5 /	171.54	172.58	201.68	230.77	231.81	965.91	4.99	19
18. May	3088	17:10:47	17:16: 8	19:20:59	21:25:48	21:31: 8	796.5 /	11.01	9.91	337.28	304.64	303.54	952.04	5.99	20
22. Nov.	3091	2:54:52	2:56:41	5:31: 3	8: 5:30	8: 7:19	-332.3 /	130.76	130.97	200.72	270.46	270.68	966.55	4.98	17
23. May	3101	22: 4:47	22: 7:50	1:54:59	5:41:59	5:45: 1	-212.9 /	80.97	81.13	158.17	235.21	235.38	951.40	6.01	18
24. Nov.	3104	20:34:48	20:36:32	23:17:46	1:59: 4	2: 0:48	172.4 /	99.55	99.44	19.72	300.00	299.90	967.10	4.98	16
27. Nov.	3117	14:59:22	15: 1:43	16:58:56	18:56:12	18:58:32	670.4 /	65.15	64.59	18.69	332.79	332.23	967.61	4.97	14
20. Nov.	3124	14:42:24	14:45: 3	16:31:23	18:17:46	18:20:25	-735.1 /	160.54	161.23	201.30	241.38	242.07	965.99	4.99	19
21. May	3134	22:49:57	22:53:44	1:52:34	4:51:19	4:55: 6	601.2 /	28.73	28.14	337.63	287.13	286.54	952.00	5.99	20
23. Nov.	3137	7:38:45	7:40:30	10:20:16	13: 0: 8	13: 1:53	-226.8 /	123.87	124.01	200.33	276.65	276.79	966.57	4.98	17
24. May	3147	4:59: 9	5: 2:27	8:32:13	12: 1:53	12: 5:11	-414.1 /	94.13	94.49	158.55	222.62	222.97	951.30	6.02	18
26. Nov.	3150	1:28:23	1:30: 9	4: 7: 4	6:44: 4	6:45:50	276.0 /	92.87	92.69	19.32	305.95	305.77	967.15	4.98	16
28. Nov.	3163	20: 6:36	20: 9:25	21:46:36	23:23:49	23:26:37	773.6 /	55.62	54.83	18.28	341.72	340.93	967.70	4.97	14
21. Nov.	3170	19:14:30	19:16:46	21:21:19	23:25:55	23:28:11	-630.3 /	151.43	151.94	200.92	249.91	250.42	966.06	4.99	19
21. May	3180	4:52: 1	4:55:16	8:24:42	11:54: 1	11:57:15	405.9 /	42.88	42.54	338.00	273.46	273.12	951.90	5.99	20
24. Nov.	3183	12:26:11	12:27:54	15:10:53	17:53:57	17:55:40	-123.0 /	117.25	117.33	199.94	282.54	282.62	966.64	4.98	17
24. May	3193	12: 2:16	12: 6:10	15: 4: 3	18: 1:52	18: 5:45	-612.6 /	108.68	109.30	158.94	208.58	209.19	951.26	6.02	18
26. Nov.	3196	6:22:28	6:24:19	8:54:45	11:25:16	11:25:16	379.7 /	85.96	85.71	18.91	312.11	311.86	967.19	4.98	16
29. Nov.	3209	1:21:57	1:25:55	2:33:34	3:41:14	3:45:12	876.1 /	43.62	42.36	17.85	353.34	352.09	967.71	4.97	14
22. Nov.	3216	23:51:17	23:53:19	2:11:38	4:30: 2	4:32: 4	-523.2 /	143.16	143.54	200.53	257.52	257.90	966.14	4.99	19
22. May	3226	11:10:54	11:13:55	15: 0:30	18:46:56	18:49:57	205.4 /	55.94	55.78	338.37	260.97	260.81	951.85	6.00	20
24. Nov.	3229	17:14:40	17:16:22	20: 0:34	22:44:52	22:46:34	-18.3 /	110.66	110.67	199.54	288.40	288.41	966.69	4.98	17
25. May	3239	19:39:27	19:45:15	21:43:15	23:41:13	23:47: 1	-815.9 /	127.78	128.99	159.33	189.67	190.89	951.17	6.02	18
27. Nov.	3242	11:20: 7	11:22: 4	13:43:40	16: 5:19	16: 7:16	482.5 /	78.79	78.45	18.50	318.55	318.21	967.25	4.98	16
20. Nov.	3249	12:21: 4	12:27:14	13:10:33	13:53:52	14: 0: 2	-927.1 /	183.92	185.96	201.12	216.28	218.32	965.57	4.99	21
23. Nov.	3262	4:32:28	4:34:21	7: 2:45	9:31:13	9:33: 7	-418.1 /	135.68	135.96	200.14	264.32	264.61	966.20	4.98	19

c	22.	May	3272	17:34: 3	17:37: 0	21:29:21	1:21:32	1:24:29	10.9	68.04	68.03	338.75	249.46	249.46	951.80	6.00	20
	26.	Nov.	3275	22: 5:44	22: 7:26	0:50:54	3:34:27	3:36: 9	87.9 /	103.98	103.93	19.13	294.33	294.27	966.79	4.98	17
	27.	Nov.	3288	16:20: 1	16:22: 9	18:31:46	20:41:26	20:43:34	587.0 /	70.98	70.53	18.08	325.63	325.18	967.30	4.97	16
	21.	Nov.	3295	16:32: 9	16:35:26	18: 0:50	19:26:15	19:29:32	-822.7 /	168.71	169.67	200.74	231.80	232.76	965.64	4.99	21
	21.	May	3305	19:35:13	19:40:53	21:37:36	23:34:17	23:39:57	816.5	9.76	8.57	338.21	307.85	306.66	952.45	5.98	22
	24.	Nov.	3308	9:15:39	9:17:27	11:53:14	14:29: 7	14:30:55	-311.9 /	128.51	128.71	199.74	270.77	270.97	966.23	4.98	19
	25.	Nov.	3318	0:16:15	0:19:16	4: 7: 7	7:54:49	7:57:49	-190.6 /	80.56	80.71	159.13	237.56	237.71	951.74	6.01	20
	27.	Nov.	3321	2:57:35	2:59:19	5:40: 3	8:20:54	8:22:38	192.3 /	97.35	97.23	18.72	300.20	300.08	966.81	4.98	17
	29.	Nov.	3334	21:24:11	21:26:35	23:20:25	1:14:16	1:16:41	690.9 /	62.41	61.81	17.66	333.50	332.90	967.37	4.97	16
	22.	Nov.	3341	20:58:52	21: 1:26	22:51:34	0:41:45	0:44:18	-716.4 /	157.94	158.59	200.35	242.10	242.76	965.68	4.99	21
	23.	May	3351	1:14:25	1:18:15	4:13:18	7: 8:15	7:12: 5	617.8	28.40	27.79	338.58	289.37	288.76	952.34	5.98	22
	25.	Nov.	3354	14: 1:49	14: 3:34	16:44:17	19:25: 5	19:26:50	-207.7 /	121.73	121.86	199.34	276.82	276.95	966.28	4.98	19
	25.	May	3364	7: 6: 1	7: 9:16	10:41:27	14:13:30	14:16:45	-389.5	93.47	93.80	159.52	225.25	225.58	951.68	6.01	20
	28.	Nov.	3367	7:50:13	7:52: 0	10:28: 0	13: 4: 6	13: 5:53	296.2 /	90.60	90.41	18.30	306.19	306.00	966.86	4.98	17
	30.	Nov.	3380	2:33:38	2:36:36	4: 8:51	5:41: 9	5:44: 6	794.4 /	52.48	51.63	17.23	342.83	341.98	967.38	4.97	16
	24.	Nov.	3387	1:33: 3	1:35:15	3:42:57	5:50:42	5:52:55	-609.5 /	148.88	149.36	199.95	250.54	251.02	965.75	4.99	21
	23.	May	3397	7:17:34	7:20:50	10:48: 8	14:15:18	14:18:33	420.0 /	42.92	42.56	338.96	275.36	275.01	952.27	5.99	22
	26.	Nov.	3400	18:47:40	18:49:23	21:32:58	0:16:38	0:18:21	-102.2 /	115.02	115.08	198.93	282.79	282.85	966.32	4.98	19
	27.	May	3410	14:18:43	14:22:32	17:23:32	20:24:27	20:28:15	-595.7 /	108.35	108.93	159.93	210.92	211.50	951.59	6.01	20
	29.	Nov.	3413	12:45:47	12:47:38	15:16:45	17:45:57	17:47:49	399.2 /	83.67	83.41	17.88	312.36	312.09	966.88	4.98	17
	2.	Dec.	3426	7:54:12	7:58:43	8:57:54	9:57: 5	10: 1:35	897.1 /	39.52	38.05	16.80	355.54	354.08	967.43	4.97	16
	25.	Nov.	3433	6:11:13	6:13:13	8:33:45	10:54:22	10:56:23	-504.1 /	140.87	141.23	199.55	257.87	258.23	965.79	4.99	21
	25.	May	3443	13:28:16	13:31:17	17:16:11	21: 0:55	21: 3:56	226.0 /	55.65	55.47	339.34	263.21	263.03	952.18	5.99	22
	C	28.	Nov.	3446	23:35:59	23:37:41	2:22: 6	5: 6:37	2.5 /	108.42	108.42	18.52	288.63	288.62	966.40	4.98	19
	27.	May	3456	21:46:39	21:52: 3	23:58:14	2: 4:22	2: 9:47	-795.3 /	126.45	127.56	160.33	193.10	194.21	951.53	6.02	20
	30.	Nov.	3459	17:43:43	17:45:42	20: 5:12	22:24:45	22:26:44	504.4 /	76.23	75.87	17.46	319.04	318.68	966.93	4.98	17
	23.	Nov.	3466	18:32: 1	18:37:12	19:29:49	20:22:27	20:27:39	-910.6 /	179.97	181.66	200.16	218.66	220.34	965.29	4.99	23
	26.	Nov.	3479	10:51:25	10:53:18	13:23:22	15:53:31	15:55:24	-399.3 /	133.47	133.74	199.15	264.56	264.82	965.87	4.98	21
	25.	May	3489	19:57:27	20: 0:23	23:52: 8	3:43:44	3:46:40	27.0 /	68.06	68.04	339.73	251.42	251.40	952.13	6.00	22
	28.	Nov.	3492	4:25:33	4:27:16	7:10:34	9:53:58	9:55:41	107.2 /	101.82	101.75	18.11	294.46	294.39	966.41	4.98	19
	2.	Dec.	3505	22:45:14	22:47:24	0:54:23	3: 1:24	3: 3:35	607.4 /	68.39	67.91	17.03	326.15	325.67	966.99	4.97	17
	25.	Nov.	3512	22:47:10	22:50:16	0:21: 4	1:51:55	1:55: 1	-803.1 /	165.64	166.53	199.76	232.99	233.88	965.33	4.99	23
	25.	May	3522	22: 5:33	22:11:30	0: 1:52	1:52:12	1:58: 8	830.9	9.08	7.80	339.18	310.55	309.27	952.73	5.97	24
	27.	Nov.	3525	15:34:51	15:36:38	18:13:38	20:50:42	20:52:30	-293.9 /	126.40	126.59	198.74	270.89	271.08	965.95	4.98	21
	28.	May	3535	2:32:15	2:35:15	6:23:35	10:11:45	10:14:44	-169.4 /	80.25	80.38	160.12	239.86	239.99	952.05	6.00	22
	30.	Nov.	3538	9:17:19	9:19: 4	11:59:19	14:39:39	14:41:24	210.7 /	95.21	95.07	17.68	300.29	300.16	966.50	4.98	19
	3.	Dec.	3551	3:50:26	3:52:56	5:43:11	7:33:27	7:35:57	711.1 /	59.62	58.97	16.60	334.22	333.58	967.02	4.97	17
	26.	Nov.	3558	3:16:44	3:19:13	5:13:17	7: 7:24	7: 9:53	-695.9 /	155.20	155.81	199.36	242.90	243.51	965.41	4.99	23
	25.	May	3568	3:39:28	3:43:23	6:34: 3	9:24:36	9:28:31	636.4 /	27.92	27.28	339.56	291.84	291.19	952.69	5.98	24
	28.	Nov.	3571	20:19:35	20:21:19	23: 2:58	1:44:42	1:46:26	-187.0 /	119.47	119.59	198.32	277.06	277.17	965.98	4.98	21
	28.	May	3581	9:23:57	9:27: 9	13: 0:47	16:34:17	16:37:29	-371.8 /	93.31	93.62	160.53	227.44	227.74	951.97	6.00	22
	30.	Nov.	3584	14:12: 2	14:13:50	16:48:54	19:24: 4	19:25:51	315.5 /	88.35	88.15	17.26	306.37	306.16	966.55	4.98	19
	3.	Dec.	3597	9: 2:29	9: 5:37	10:32:56	12: 0:17	12: 3:25	813.6 /	49.37	48.45	16.16	343.87	342.96	967.11	4.97	17
	26.	Nov.	3604	7:51:10	7:53:20	10: 3:53	12:14:29	12:16:40	-589.7 /	146.41	146.86	198.95	251.04	251.49	965.44	4.99	23

26. May	3614	9:36:31	9:39:48	13: 3:59	16:28: 1	16:31:18	441.3	42.48	42.10	339.94	277.78	277.40	952.61	5.98	24
29. Nov.	3617	1: 7:12	1: 8:55	3:53: 0	6:37:12	6:38:55	-82.1 /	112.80	112.85	197.91	282.96	283.01	966.05	4.98	21
29. May	3627	16:21:34	16:25:15	19:31: 8	22:36:55	22:40:36	-568.4	107.28	107.82	160.93	214.04	214.58	951.94	6.01	22
1. Dec.	3630	19: 9:49	19:11:42	21:39:10	0: 6:42	0: 8:35	421.7 /	81.15	80.86	16.83	312.79	312.50	966.61	4.98	19
4. Dec.	3643	14:26:23	14:31:44	15:21: 2	16:10:21	16:15:41	917.4 /	35.05	33.29	15.72	358.16	356.39	967.13	4.97	17
27. Nov.	3650	12:28:10	12:30:10	14:52:48	17:15:30	17:17:29	-485.3 /	138.59	138.93	198.54	258.15	258.50	965.50	4.99	23
26. May	3660	15:53: 9	15:56:11	19:39:27	23:22:34	23:25:36	243.4 /	55.57	55.38	340.33	265.29	265.10	952.57	5.99	24
30. Nov.	3663	5:56:12	5:57:55	8:42:28	11:27: 7	11:28:50	23.3 /	106.15	106.14	17.48	288.82	288.81	966.06	4.98	21
30. May	3673	23:47:35	23:52:37	2: 7:37	4:22:33	4:27:35	-770.6	124.86	125.86	161.34	196.82	197.82	951.86	6.01	22
2. Dec.	3676	0: 9:43	0:11:44	2:29: 9	4:46:38	4:48:39	524.9 /	73.74	73.36	16.39	319.43	319.05	966.65	4.98	19
26. Nov.	3683	0:42:45	0:47:14	1:49:14	2:51:16	2:55:45	-890.4 /	175.81	177.23	199.16	221.09	222.51	964.93	4.99	25
27. Nov.	3696	17: 8:37	17:10:29	19:42:15	22:14: 6	22:15:58	-379.2 /	131.17	131.42	198.13	264.83	265.08	965.55	4.99	23
29. May	3706	22:17:19	22:20:15	2:11:16	6: 2: 8	6: 5: 3	46.0 /	67.92	67.89	340.73	253.57	253.54	952.45	5.99	24
1. Dec.	3709	10:47:23	10:49: 7	13:32:11	16:15:22	16:17: 5	126.8 /	99.60	99.52	17.06	294.59	294.51	966.14	4.98	21
4. Dec.	3722	5:11:23	5:13:37	7:17:42	9:21:50	9:24: 4	628.5 /	65.70	65.19	15.96	326.72	326.22	966.69	4.97	19
27. Nov.	3729	5: 1:44	5: 4:41	6:40:26	8:16:13	8:19:11	-783.8 /	162.68	163.51	198.75	234.00	234.83	965.02	4.99	25
27. May	3739	0:40: 5	0:46:21	2:29:59	4:13:36	4:19:51	845.2 /	8.34	6.97	340.17	313.36	311.99	953.08	5.97	26
30. Nov.	3742	21:52:13	21:54: 0	0:32:17	3:10:40	3:12:27	-272.9 /	124.08	124.25	197.71	271.16	271.33	965.58	4.98	23
29. May	3752	4:53:46	4:56:45	8:45:15	12:33:37	12:36:35	-152.8 /	80.26	80.38	161.14	241.90	242.02	952.37	5.99	24
2. Dec.	3755	15:40:12	15:41:57	18:21:31	21: 1:10	21: 2:56	232.1 /	92.85	92.70	16.63	300.55	300.41	966.17	4.98	21
4. Dec.	3768	10:18: 7	10:20:43	12: 7: 6	13:53:31	13:56: 6	731.5 /	56.72	56.04	15.52	335.00	334.31	966.74	4.97	19
28. Nov.	3775	9:30:47	9:33:12	11:30:35	13:28: 1	13:30:27	-677.7 /	152.69	153.27	198.34	243.41	244.00	965.07	4.99	25
27. May	3785	6: 8:36	6:12:35	8:59:22	11:46: 4	11:50: 2	652.0 /	27.68	27.01	340.56	294.10	293.43	952.99	5.97	26
30. Nov.	3788	2:38:53	2:40:37	5:23: 5	8: 5:38	8: 7:22	-167.9 /	117.29	117.39	197.28	277.17	277.28	965.66	4.98	23
30. May	3798	11:35:17	11:38:27	15:13:53	18:49:11	18:52:21	-349.1	92.85	93.14	161.54	229.95	230.23	952.32	6.00	24
3. Dec.	3801	20:36:22	20:38:11	23:12: 5	1:46: 5	1:47:54	337.2 /	85.92	85.70	16.19	306.68	306.46	966.23	4.98	21
6. Dec.	3814	15:30:40	15:34: 3	16:54:56	18:15:51	18:19:13	836.3 /	45.71	44.70	15.07	345.45	344.43	966.76	4.97	19
29. Nov.	3821	14: 5:11	14: 7:19	16:20:22	18:33:29	18:35:37	-571.6 /	144.06	144.50	197.93	251.35	251.79	965.16	4.99	25
29. May	3831	12: 3: 4	12: 6:23	15:27:51	18:49:10	18:52:29	458.4 /	42.35	41.95	340.95	279.94	279.55	952.95	5.98	26
2. Dec.	3834	7:27: 2	7:28:45	10:13:18	12:57:56	12:59:39	-62.4 /	110.59	110.62	196.85	283.08	283.12	965.73	4.98	23
31. May	3844	18:37:23	18:40:59	21:49:52	0:58:38	1: 2:14	-549.6	106.91	107.42	161.96	216.50	217.01	952.24	6.00	24
5. Dec.	3847	1:34: 4	1:35:59	4: 1:55	6:27:55	6:29:50	441.3 /	78.78	78.47	15.75	313.03	312.73	966.29	4.98	21
6. Dec.	3860	21: 0:45	21: 7:52	21:43:28	22:19: 5	22:26:11	938.8 /	29.60	27.20	14.62	2.05	359.65	966.83	4.97	19
30. Nov.	3867	18:44:31	18:46:29	21:11:18	23:36:13	23:38:10	-464.6 /	136.16	136.48	197.50	258.52	258.85	965.20	4.99	25
29. May	3877	18:12:26	18:15:28	21:56:50	1:38: 3	1:41: 5	263.6 /	55.34	55.13	341.35	267.57	267.36	952.84	5.98	26
2. Dec.	3880	12:17:41	12:19:23	15: 4: 1	17:48:46	17:50:28	42.8 /	103.94	103.91	16.42	288.93	288.90	965.82	4.98	23
2. June	3890	1:52:25	1:57:11	4:19:40	6:42: 6	6:46:51	-747.2 /	123.58	124.49	162.37	200.26	201.17	952.18	6.00	24
5. Dec.	3893	6:32:48	6:34:51	8:50: 6	11: 5:25	11: 7:28	545.0 /	71.22	70.82	15.31	319.80	319.40	966.37	4.98	21
29. Nov.	3900	6:53:45	6:57:46	8: 7:44	9:17:43	9:21:44	-870.4 /	172.01	173.25	198.14	223.03	224.27	964.65	4.99	27
2. Dec.	3913	23:27:38	23:29:29	2: 2:57	4:36:31	4:38:22	-357.9 /	128.76	129.00	197.08	265.15	265.39	965.25	4.99	25
1. June	3923	0:36:20	0:39:15	4:29:26	8:19:27	8:22:22	66.4 /	67.73	67.68	341.76	255.84	255.79	952.80	5.98	26
4. Dec.	3926	17: 9:37	17:11:20	19:54: 4	22:36:53	22:38:36	148.8 /	97.21	97.12	15.98	294.84	294.75	965.84	4.98	23
3. June	3936	10:24:28	--	10:55:57	--	11:27:26	-949.5 /	155.11	--	162.80	--	170.50	952.10	6.01	24
7. Dec.	3939	11:35:57	11:38:14	13:39:12	15:40:13	15:42:31	649.7 /	62.93	62.39	14.87	327.34	326.80	966.42	4.98	21

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30. Nov.	3946	11:14:45	11:17:34	12:57:59	14:38:26	14:41:16	-764.3	/	159.77	160.54	197.72	234.91	235.68	964.68	4.99	27
29. May	3956	3:14:39	3:21:21	4:57:17	6:33:12	6:39:53	860.4	/	7.41	5.91	341.18	316.44	314.94	953.42	5.96	28
3. Dec.	3959	4:12:57	4:14:44	6:54:12	9:33:46	9:35:33	-252.5	/	121.78	121.94	196.65	271.36	271.52	965.31	4.99	25
1. June	3969	7: 7:38	7:10:35	10:59:21	14:47:58	14:50:55	-131.0	/	79.96	80.06	162.17	244.27	244.37	952.75	5.99	26
5. Dec.	3972	22: 4:18	22: 6: 4	0:44:50	3:23:41	3:25:27	254.1	/	90.42	90.26	15.54	300.83	300.67	965.90	4.98	23
7. Dec.	3985	16:43:56	16:46:39	18:28:13	20: 9:50	20:12:33	754.9	/	53.45	52.71	14.41	336.12	335.38	966.44	4.97	21
30. Nov.	3992	15:45:20	15:47:42	17:48:32	19:49:26	19:51:48	-657.7	/	150.04	150.59	197.30	244.01	244.56	964.78	4.99	27
30. May	4002	8:37: 6	8:41: 9	11:24: 0	14: 6:46	14:10:48	667.2	/	27.47	26.77	341.58	296.38	295.68	953.35	5.96	28
3. Dec.	4005	8:59:22	9: 1: 6	11:44:20	14:27:40	14:29:25	-147.2	/	114.98	115.08	196.21	277.35	277.44	965.36	4.98	25
2. June	4015	13:57:47	14: 0:55	17:37:29	21:13:55	21:17: 3	-331.8	/	92.78	93.05	162.59	232.12	232.39	952.67	5.99	26
6. Dec.	4018	2:59:39	3: 1:29	5:34: 6	8: 6:48	8: 8:38	359.0	/	83.45	83.21	15.10	306.99	306.75	965.93	4.98	23
8. Dec.	4031	22: 0:13	22: 3:54	23:17:54	0:31:55	0:35:36	858.0	/	41.95	40.82	13.96	347.11	345.97	966.49	4.97	21
1. Dec.	4038	20:22:11	20:24:17	22:40: 0	0:55:47	0:57:53	-551.5	/	141.56	141.98	196.87	251.77	252.18	964.80	4.99	27
30. May	4048	14:31:15	14:34:35	17:53:28	21:12:13	21:15:33	473.7	/	42.34	41.93	341.98	282.03	281.62	953.23	5.97	28
4. Dec.	4051	13:48:21	13:50: 4	16:35: 1	19:20: 3	19:21:46	-40.8	/	108.24	108.26	195.78	283.29	283.32	965.43	4.98	25
3. June	4061	20:52:17	20:55:49	0: 7:41	3:19:27	3:22:58	-529.6	/	106.49	106.97	163.00	219.04	219.52	952.58	5.99	26
6. Dec.	4064	7:56: 1	7:57:57	10:22: 6	12:46:19	12:48:15	462.6	/	76.25	75.92	14.65	313.38	313.06	966.00	4.98	23
m	30. Nov.	4071	9: 8:44	9:33:24	9:38:39	9:58: 3	-958.8	/	189.09	195.71	197.52	199.33	205.94	964.31	4.99	29
m	9. Dec.	4077	3:43:32	--	4: 6:49	4:30: 7	961.8	/	21.60	--	13.51	--	5.41	966.51	4.97	21
2. Dec.	4084	1: 3:43	1: 5:40	3:32:35	5:59:34	6: 1:31	-444.0	/	133.72	134.03	196.44	258.85	259.16	964.89	4.99	27
1. June	4094	20:42:33	20:45:35	0:25:28	4: 5:11	4: 8:13	277.0	/	55.55	55.33	342.39	269.45	269.23	953.20	5.97	28
4. Dec.	4097	18:38:29	18:40:12	21:24:49	0: 9:32	0:11:16	64.6	/	101.57	101.53	15.33	289.14	289.10	965.44	4.98	25
5. June	4107	4:11:30	4:16: 5	6:43:28	9:10:48	9:15:22	-730.4	/	123.03	123.90	163.43	202.97	203.83	952.50	6.00	26
8. Dec.	4110	12:56:32	12:58:38	15:11:15	17:23:56	17:26: 2	567.7	/	68.47	68.04	14.21	320.37	319.94	966.03	4.98	23
1. Dec.	4117	13: 4:25	13: 8: 6	14:24:54	15:41:44	15:45:25	-851.0	/	168.50	169.62	197.09	224.57	225.68	964.36	4.99	29
4. Dec.	4130	5:46:53	5:48:43	8:23:43	10:58:48	11: 0:38	-338.0	/	126.44	126.67	196.01	265.34	265.56	964.97	4.99	27
2. June	4140	3: 0:45	3: 3:40	6:52:58	10:42: 5	10:45: 0	83.2	/	67.77	67.71	342.80	257.90	257.84	953.12	5.98	28
7. Dec.	4143	23:30:52	23:32:36	2:14:54	4:57:18	4:59: 2	169.9	/	94.86	94.75	14.89	295.03	294.92	965.56	4.98	25
5. June	4153	12:19:29	12:33:19	13:16: 3	13:58:46	14:12:35	-930.3	/	149.91	153.24	163.86	174.49	177.81	952.47	6.00	26
8. Dec.	4156	18: 1:30	18: 3:52	20: 1:16	21:58:44	22: 1: 6	672.3	/	59.98	59.40	13.75	328.10	327.52	966.07	4.98	23
2. Dec.	4163	17:29:52	17:32:35	19:17:40	21: 2:46	21: 5:29	-743.5	/	156.78	157.49	196.66	235.83	236.55	964.44	4.99	29
31. May	4173	5:46:23	5:53:41	7:20:19	8:46:54	8:54:12	877.1	/	6.14	4.46	342.21	319.95	318.28	953.76	5.95	30
4. Dec.	4176	10:31:14	10:33: 1	13:13:38	15:54:20	15:56: 7	-231.4	/	119.41	119.56	195.57	271.58	271.72	965.04	4.99	27
3. June	4186	9:33:24	9:36:20	13:25: 6	17:13:43	17:16:39	-113.6	/	79.96	80.05	163.22	246.39	246.47	953.07	5.98	28
7. Dec.	4189	4:24:28	4:26:15	7: 4: 8	9:42: 7	9:43:54	275.4	/	88.01	87.83	14.44	301.05	300.88	965.60	4.98	25
11. Dec.	4202	23:11:59	23:14:50	0:51:40	2:28:33	2:31:24	776.2	/	50.27	49.47	13.30	337.13	336.33	966.15	4.97	23
4. Dec.	4209	22: 3: 0	22: 5:18	0: 9:34	2:13:53	2:16:12	-636.8	/	147.33	147.85	196.23	244.61	245.13	964.45	4.99	29
2. June	4219	11: 8:29	11:12:37	13:51: 1	16:29:21	16:33:28	683.9	/	27.13	26.39	342.61	298.84	298.10	953.68	5.96	30
6. Dec.	4222	15:18:52	15:20:36	18: 4:35	20:48:41	20:50:25	-124.9	/	112.57	112.64	195.12	277.60	277.68	965.08	4.99	27
4. June	4232	16:12:56	16:16: 1	19:54: 2	23:31:54	23:34:59	-309.5	/	92.41	92.66	163.64	234.62	234.87	952.98	5.98	28
9. Dec.	4235	9:20:45	9:22:36	11:53:50	14:25: 9	14:27: 1	380.7	/	80.95	80.69	13.99	307.29	307.04	965.67	4.98	25
11. Dec.	4248	4:31:22	4:35:30	5:41:15	6:47: 1	6:51: 9	880.7	/	37.78	36.47	12.84	349.20	347.89	966.20	4.97	23
5. Dec.	4255	2:41:14	2:43:18	5: 1:50	7:20:26	7:22:30	-528.9	/	138.89	139.28	195.79	252.31	252.70	964.53	4.99	29
2. June	4265	17: 4:20	17: 7:41	20:24:19	23:40:49	23:44: 9	486.3	/	42.53	42.11	343.03	283.95	283.53	953.65	5.96	30

6. Dec. 4268	20: 8: 9	20: 9:52	22:55: 7	1:40:29	1:42:12	-18.6 /	105.82	105.83	194.68	283.52	283.53	965.10	4.98	27
6. June 4278	23:12:22	23:15:50	2:30:18	5:44:40	5:48: 7	-510.7	106.20	106.66	164.07	221.48	221.94	952.94	5.99	28
9. Dec. 4281	14:20:44	14:22:42	16:44:43	19: 6:48	19: 8:46	486.1 /	73.53	73.19	13.54	313.89	313.54	965.68	4.98	25
2. Dec. 4288	15: 9:27	15:16:55	15:52: 8	16:27:21	16:34:49	-937.3 /	181.79	184.27	196.45	208.64	211.12	963.97	5.00	31
6. Dec. 4301	7:21:13	7:23: 8	9:52: 5	12:21: 7	12:23: 2	-422.7 /	131.24	131.53	195.35	259.18	259.46	964.58	4.99	29
5. June 4311	23:12:54	23:15:56	2:54: 7	6:32: 7	6:35: 9	292.4 /	55.65	55.42	343.44	271.47	271.24	953.53	5.97	30
9. Dec. 4314	0:59:18	1: 1: 2	3:45:33	6:30:10	6:31:53	87.1 /	99.13	99.08	14.23	289.38	289.33	965.18	4.98	27
7. June 4324	6:26:35	6:31: 0	9: 3:26	11:35:48	11:40:12	-711.9	122.40	123.21	164.50	205.80	206.61	952.89	5.99	28
11. Dec. 4327	19:24:27	19:26:36	21:36:15	23:45:57	23:48: 7	591.6 /	65.57	65.11	13.08	321.05	320.59	965.73	4.98	25
4. Dec. 4334	19:18:17	19:21:42	20:44:58	22: 8:16	22:11:41	-830.6 /	165.05	166.05	196.02	225.99	227.00	964.03	4.99	31
7. Dec. 4347	12: 3:18	12: 5: 7	14:41:41	17:18:21	17:20:11	-315.9 /	123.97	124.17	194.91	265.65	265.85	964.65	4.99	29
5. June 4357	5:31:39	5:34:33	9:22:59	13:11:14	13:14: 8	96.9	68.01	67.94	343.86	259.79	259.72	953.47	5.97	30
9. Dec. 4360	5:51:56	5:53:41	8:35:26	11:17:16	11:19: 1	192.7 /	92.37	92.25	13.78	295.31	295.18	965.21	4.98	27
8. June 4370	14:24:56	14:35: 0	15:37:43	16:40:26	16:50:30	-911.3	146.82	149.19	164.94	180.68	183.06	952.78	6.00	28
12. Dec. 4373	0:30:26	0:32:53	2:26:18	4:19:46	4:22:13	695.8 /	56.87	56.26	12.62	328.99	328.37	965.78	4.98	25
5. Dec. 4380	23:44:10	23:46:47	1:36:10	3:25:37	3:28:14	-723.0 /	153.86	154.53	195.58	236.63	237.31	964.09	4.99	31
3. June 4390	8:30:27	8:38:10	9:59:18	11:20:24	11:28: 7	886.0 /	5.88	4.09	343.26	322.43	320.64	954.07	5.95	32
7. Dec. 4393	16:49: 9	16:50:55	19:32:36	22:14:22	22:16: 8	-210.4 /	117.05	117.18	194.47	271.76	271.89	964.69	4.99	29
6. June 4403	11:59:36	12: 2:31	15:51:12	19:39:42	19:42:37	-97.0	80.03	80.11	164.29	248.47	248.54	953.37	5.97	30
10. Dec. 4406	10:47:42	10:49:30	13:26:20	16: 3:16	16: 5: 4	298.4 /	85.46	85.27	13.32	301.38	301.19	965.27	4.98	27
13. Dec. 4419	5:40:18	5:43:20	7:14:33	8:45:47	8:48:49	799.4 /	46.76	45.89	12.16	338.44	337.56	965.84	4.97	25
6. Dec. 4426	4:18: 0	4:20:15	6:27:53	8:35:35	8:37:50	-615.2 /	144.58	145.07	195.14	245.22	245.71	964.20	4.99	31
3. June 4436	13:46:22	13:50:33	16:25:58	19: 1:18	19: 5:29	694.3	27.32	26.56	343.68	300.80	300.04	954.02	5.95	32
9. Dec. 4439	21:37:30	21:39:14	0:23:53	3: 8:38	3:10:22	-102.8 /	110.15	110.21	194.02	277.82	277.88	964.76	4.99	29
6. June 4449	18:41:49	18:44:53	22:23:28	2: 1:55	2: 4:58	-296.2	92.64	92.88	164.72	236.55	236.79	953.32	5.98	30
10. Dec. 4452	15:45:32	15:47:25	18:17: 6	20:46:53	20:48:46	402.9 /	78.38	78.11	12.87	307.63	307.36	965.31	4.98	27
13. Dec. 4465	11: 3: 2	11: 7:51	12: 3:49	12:59:47	13: 4:36	903.5 /	33.20	31.63	11.70	351.77	350.21	965.87	4.97	25
6. Dec. 4472	8:55:39	8:57:41	11:18:45	13:39:54	13:41:57	-507.5 /	136.31	136.68	194.70	252.72	253.09	964.24	4.99	31
4. June 4482	19:35:45	19:39: 8	22:52:50	2: 6:24	2: 9:46	502.9 /	42.45	42.00	344.09	286.18	285.74	953.92	5.95	32
9. Dec. 4485	2:28:25	2:30: 8	5:15:38	8: 1:14	8: 2:57	3.4 /	103.41	103.41	13.56	283.72	283.71	964.85	4.98	29
8. June 4495	1:29:12	1:32:35	4:49:36	8: 6:30	8: 9:53	-491.0	105.88	106.32	165.15	223.98	224.41	953.25	5.98	30
11. Dec. 4498	20:46:26	20:48:27	23: 8:12	1:28: 0	1:30: 1	509.3 /	70.80	70.43	12.41	314.39	314.02	965.41	4.98	27
5. Dec. 4505	21:16:30	21:22:10	22:10:54	22:59:38	23: 5:18	-916.9 /	176.57	178.41	195.37	212.33	214.17	963.67	5.00	33
8. Dec. 4518	13:37:17	13:39:11	16:10: 9	18:41:12	18:43: 6	-400.5 /	128.70	128.97	194.25	259.53	259.80	964.30	4.99	31
6. June 4528	1:38:59	1:42: 2	5:18:15	8:54:18	8:57:20	309.8	55.63	55.38	344.51	273.64	273.40	953.90	5.96	32
11. Dec. 4531	7:21: 1	7:22:44	10: 7: 2	12:51:26	12:53:10	110.6 /	96.61	96.54	13.11	289.67	289.60	964.88	4.98	29
9. June 4541	8:39:37	8:43:50	11:22: 2	14: 0:10	14: 4:23	-689.2	121.47	122.23	165.58	208.94	209.69	953.17	5.99	30
13. Dec. 4544	1:48:54	1:51: 6	3:57:47	6: 4:31	6: 6:44	614.0 /	62.74	62.25	11.95	321.65	321.16	965.46	4.98	27
7. Dec. 4551	1:29:11	1:32:23	3: 2: 5	4:31:49	4:35: 1	-808.3 /	161.50	162.42	194.93	227.43	228.35	963.71	5.00	33
8. Dec. 4564	18:22:22	18:24:10	21: 2:12	23:40:20	23:42: 9	-294.1 /	121.51	121.70	193.80	265.90	266.09	964.31	4.99	31
7. June 4574	7:57:31	8: 0:26	11:47:46	15:34:56	15:37:50	115.5	67.97	67.88	344.94	262.00	261.91	953.80	5.96	32
11. Dec. 4577	12:16: 3	12:17:49	14:58:52	17:40: 2	17:41:47	216.2 /	89.82	89.69	12.65	295.62	295.48	964.94	4.98	29
10. June 4587	16:21:31	16:29:30	17:50:34	19:11:38	19:19:37	-886.8	143.60	145.43	166.02	186.60	188.44	953.13	5.99	30
14. Dec. 4590	6:54:42	6:57:15	8:46:29	10:35:45	10:38:19	718.8 /	53.74	53.08	11.49	329.89	329.23	965.51	4.98	27

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7. Dec. 4597	5:57:33	6: 0: 5	7:53:47	9:47:32	9:50: 4	-701.1 /	150.88	151.51	194.48	237.46	238.09	963.81	4.99	33
6. June 4607	11:12:27	11:20:49	12:34:31	13:48:12	13:56:34	897.3	5.20	3.23	344.34	325.44	323.47	954.43	5.94	34
11. Dec. 4610	23: 9:47	23:11:32	1:54:18	4:37:11	4:38:56	-185.9 /	114.45	114.57	193.35	272.13	272.24	964.38	4.99	31
8. June 4620	14:29:53	14:32:47	18:21:11	22: 9:25	22:12:19	-84.4	80.36	80.42	165.37	250.32	250.38	953.74	5.97	32
13. Dec. 4623	17:11:15	17:13: 4	19:48:46	22:24:33	22:26:22	321.1 /	82.91	82.70	12.19	301.69	301.48	964.95	4.98	29
15. Dec. 4636	12: 8: 4	12:11:19	13:36:14	15: 1:11	15: 4:27	822.8 /	43.08	42.11	11.02	339.93	338.97	965.53	4.98	27
9. Dec. 4643	10:32: 8	10:34:20	12:45:16	14:56:16	14:58:28	-592.7 /	141.79	142.26	194.03	245.81	246.28	963.83	4.99	33
6. June 4653	16:23:36	16:27:50	18:59:39	21:31:22	21:35:36	706.7 /	27.33	26.54	344.75	302.96	302.18	954.32	5.94	34
11. Dec. 4656	3:58:45	4: 0:29	6:45:43	9:31: 3	9:32:47	-80.1 /	107.68	107.73	192.89	278.05	278.10	964.45	4.99	31
10. June 4666	21: 3:40	21: 6:41	0:46:14	4:25:37	4:28:38	-277.0 /	92.52	92.74	165.80	238.86	239.08	953.64	5.97	32
14. Dec. 4669	22: 8:49	22:10:44	0:38:37	3: 6:35	3: 8:30	427.0 /	75.66	75.37	11.73	308.09	307.80	965.05	4.98	29
16. Dec. 4682	17:36:59	17:43: 7	18:25:54	19: 8:40	19:14:49	927.6 /	27.69	25.64	10.56	355.47	353.42	965.57	4.97	27
9. Dec. 4689	15:12:23	15:14:24	17:37:50	20: 1:20	20: 3:21	-486.7 /	133.78	134.13	193.59	253.04	253.39	963.92	4.99	33
8. June 4699	22: 8: 1	22:11:25	1:22:29	4:33:25	4:36:49	517.1	42.54	42.08	345.17	288.26	287.80	954.28	5.95	34
13. Dec. 4702	8:48:41	8:50:25	11:36: 4	14:21:49	14:23:32	26.4 /	100.92	100.91	12.43	283.96	283.95	964.50	4.99	31
11. June 4712	3:55:36	3:58:56	7:17:48	10:36:33	10:39:53	-475.0 /	105.85	106.26	166.24	226.21	226.62	953.57	5.97	32
16. Dec. 4715	3: 8:19	3:10:22	5:27:45	7:45:11	7:47:14	532.0 /	68.06	67.67	11.27	314.87	314.48	965.07	4.98	29
9. Dec. 4722	3:21:50	3:26:32	4:26:25	5:26:18	5:31: 0	-894.8 /	171.80	173.29	194.27	215.24	216.73	963.39	5.00	35
11. Dec. 4735	19:55:10	19:57: 2	22:29:51	1: 2:46	1: 4:39	-378.9 /	126.20	126.45	193.13	259.81	260.07	963.98	4.99	33
9. June 4745	4:12:56	4:15:58	7:50:28	11:24:49	11:27:51	323.6	55.85	55.59	345.60	275.60	275.35	954.17	5.95	34
13. Dec. 4748	13:41:24	13:43: 8	16:27:11	19:11:20	19:13: 4	131.3 /	94.24	94.16	11.98	289.79	289.71	964.58	4.98	31
12. June 4758	10:59:12	11: 3:17	13:45:56	16:28:30	16:32:35	-670.1	120.93	121.64	166.67	211.71	212.42	953.50	5.98	32
16. Dec. 4761	8:11:22	8:13:39	10:17: 5	12:20:35	12:22:52	636.8 /	59.82	59.30	10.81	322.31	321.79	965.14	4.98	29
9. Dec. 4768	7:41:33	7:44:34	9:20: 0	10:55:29	10:58:30	-786.6 /	158.16	159.00	193.82	228.64	229.48	963.46	5.00	35
12. Dec. 4781	0:41:19	0:43: 7	3:22:37	6: 2:13	6: 4: 1	-270.4 /	118.92	119.09	192.67	266.25	266.42	964.07	4.99	33
10. June 4791	10:30: 2	10:32:56	14:19:17	18: 5:28	18: 8:22	128.7	68.27	68.17	346.03	263.89	263.79	954.12	5.96	34
14. Dec. 4794	18:35: 2	18:36:48	21:17: 7	23:57:31	23:59:18	238.5 /	87.33	87.17	11.52	295.86	295.71	964.63	4.98	31
12. June 4804	18:42: 4	18:49:14	20:19:42	21:50: 9	21:57:18	-871.3	142.34	143.96	167.11	190.27	191.89	953.43	5.98	32
17. Dec. 4807	13:19:59	13:22:39	15: 7:30	16:52:24	16:55: 4	741.0 /	50.58	49.87	10.34	330.81	330.10	965.20	4.98	29
10. Dec. 4814	12:12:26	12:14:53	14:12:51	16:10:53	16:13:20	-678.1 /	147.84	148.43	193.36	238.30	238.89	963.48	5.00	35
7. June 4824	13:53:56	14: 3:28	15: 6:34	16: 9:40	16:19:11	911.3	3.84	1.56	345.41	329.27	326.99	954.76	5.93	36
13. Dec. 4827	5:28:35	5:30:20	8:14: 1	10:57:49	10:59:35	-163.7 /	111.99	112.09	192.22	272.34	272.44	964.11	4.99	33
10. June 4837	16:52:29	16:55:22	20:43:36	0:31:39	0:34:31	-62.7	80.14	80.19	166.45	252.72	252.77	954.04	5.96	34
15. Dec. 4840	23:31:44	23:33:34	2: 7:56	4:42:24	4:44:14	344.7 /	80.28	80.05	11.05	302.05	301.83	964.72	4.98	31
17. Dec. 4853	18:37:23	18:40:57	19:58:21	21:15:46	21:19:20	847.8 /	39.00	37.91	9.87	341.83	340.74	965.26	4.98	29
10. Dec. 4860	16:49:36	16:51:45	19: 5:39	21:19:36	21:21:46	-571.7 /	139.13	139.56	192.92	246.26	246.70	963.56	4.99	35
8. June 4870	18:59: 7	19: 3:28	21:30:46	23:58: 0	0: 2:20	722.0	27.07	26.25	345.84	305.42	304.60	954.70	5.94	36
13. Dec. 4873	10:16:46	10:18:30	13: 4:13	15:50: 3	15:51:47	-57.6 /	105.21	105.25	191.76	278.27	278.30	964.16	4.99	33
12. June 4883	23:30:48	23:33:48	3:14: 2	6:54: 7	6:57: 6	-259.7 /	92.53	92.73	166.89	241.05	241.26	954.02	5.96	34
16. Dec. 4886	4:30:26	4:32:23	6:58:19	9:24:20	9:26:16	450.9 /	72.92	72.61	10.59	308.56	308.25	964.73	4.98	31
19. Dec. 4899	0:17: 4	0:27:33	0:49:17	1:11: 0	1:21:29	951.9 /	20.57	16.99	9.40	1.82	358.23	965.32	4.98	29
12. Dec. 4906	21:28:34	21:30:33	23:56:26	2:22:24	2:24:23	-463.7 /	131.10	131.43	192.46	253.49	253.81	963.60	4.99	35
10. June 4916	0:48:13	0:51:38	4: 0:41	7: 9:37	7:13: 1	526.8	42.96	42.49	346.27	290.04	289.57	954.59	5.94	36
15. Dec. 4919	15: 7:37	15: 9:20	17:55: 3	20:40:52	20:42:36	48.3 /	98.49	98.46	11.30	284.13	284.10	964.21	4.99	33

13. June 4929	6:19:11	6:22:28	9:43:31	13: 4:26	13: 7:43	-455.5	105.60	105.99	167.33	228.66	229.06	953.93	5.97	34
17. Dec. 4932	9:32:17	9:34:23	11:49: 6	14: 3:54	14: 6: 0	555.7 /	65.21	64.79	10.12	315.46	315.04	964.80	4.98	31
11. Dec. 4939	9:31:43	9:35:53	10:44:33	11:53:15	11:57:25	-873.7 /	167.67	168.95	193.15	217.35	218.63	963.06	5.00	37
13. Dec. 4952	2:11:56	2:13:48	4:48:27	7:23:12	7:29: 5	-356.1 /	123.61	123.85	192.00	260.15	260.39	963.68	4.99	35
11. June 4962	6:50:37	6:53:40	10:26:32	13:59:14	14: 2:16	335.9	56.17	55.90	346.69	277.49	277.22	954.53	5.94	36
15. Dec. 4965	20: 0: 5	20: 1:49	22:45:26	1:29: 8	1:30:53	156.2 /	91.61	91.52	10.83	290.15	290.05	964.26	4.99	33
14. June 4975	13:27: 5	13:31: 5	16:16:35	19: 2: 0	19: 5:59	-656.7	120.90	121.58	167.77	213.97	214.65	953.84	5.97	34
18. Dec. 4978	14:37:33	14:39:54	16:39:43	18:39:36	18:41:57	660.5 /	56.77	56.21	9.66	323.10	322.55	964.82	4.98	31
11. Dec. 4985	13:53:33	13:56:26	15:36:54	17:17:24	17:20:17	-766.1 /	155.03	155.81	192.70	229.58	230.36	963.14	5.00	37
14. Dec. 4998	6:56:52	6:58:40	9:39:26	12:20:18	12:22: 6	-248.7 /	116.47	116.63	191.54	266.46	266.61	963.72	4.99	35
12. June 5008	13: 2:58	13: 5:51	16:51: 5	20:36: 9	20:39: 2	144.1	68.43	68.33	347.12	265.92	265.81	954.44	5.95	36
18. Dec. 5011	0:55:40	0:57:28	3:36:53	6:16:25	6:18:13	261.8 /	84.75	84.58	10.37	296.16	295.99	964.33	4.98	33
15. June 5021	20:54: 1	21: 0:25	22:41:43	0:23: 0	0:29:24	-850.7	140.60	142.02	168.21	194.41	195.82	953.78	5.98	34
19. Dec. 5024	19:48:57	19:51:46	21:30:57	23:10:10	23:12:59	767.3 /	46.93	46.15	9.19	332.22	331.44	964.89	4.98	31
13. Dec. 5031	18:25:28	18:27:51	20:29:23	22:30:58	22:33:22	-657.9 /	145.08	145.63	192.24	238.85	239.40	963.23	5.00	37
10. June 5041	16:40:33	16:51:39	17:44: 2	18:36:25	18:47:30	923.3	2.59	359.89	346.51	333.12	330.42	955.07	5.92	38
15. Dec. 5044	11:43:51	11:45:36	14:30: 6	17:14:43	17:16:28	-142.7 /	109.60	109.69	191.08	272.47	272.56	963.82	4.99	35
13. June 5054	19:26:27	19:29:19	23:17:10	3: 4:50	3: 7:42	-49.0	80.42	80.46	167.56	254.65	254.69	954.40	5.95	36
18. Dec. 5057	5:53: 6	5:54:58	8:27:54	11: 0:56	11: 2:48	368.2 /	77.63	77.38	9.90	302.43	302.18	964.37	4.98	33
21. Dec. 5070	1: 8:12	1:12:10	2:21:27	3:30:45	3:34:43	871.2 /	34.82	33.57	8.72	343.87	342.62	964.92	4.98	31
14. Dec. 5077	23: 2: 7	23: 4:14	1:21: 9	3:38: 8	3:40:15	-549.0 /	136.36	136.77	191.78	246.79	247.20	963.26	5.00	37
12. June 5087	21:41:32	21:45:57	0:10: 2	2:34: 3	2:38:27	732.1	27.27	26.42	346.93	307.45	306.60	954.99	5.93	38
16. Dec. 5090	16:33:45	16:35:28	19:21:36	22: 7:51	22: 9:35	-35.0 /	102.74	102.76	190.62	278.48	278.50	963.88	4.99	35
15. June 5100	1:58:29	2: 1:27	5:42:17	9:22:57	9:25:55	-242.1	92.54	92.72	167.99	243.26	243.45	954.29	5.96	36
20. Dec. 5103	10:53:40	10:55:38	13:19:38	15:43:43	15:45:41	473.1 /	70.27	69.94	9.44	308.94	308.60	964.46	4.98	33
13. Dec. 5110	11:47:57	--	12: 8:17	--	12:28:38	-960.7 /	185.59	--	192.47	--	199.36	962.72	5.00	39
16. Dec. 5123	3:43:36	3:45:33	6:13:46	8:42: 4	8:44: 1	-440.8 /	128.44	128.75	191.32	253.89	254.20	963.34	4.99	37
13. June 5133	3:22:39	3:26: 6	6:31:54	9:37:33	9:41: 0	544.0 /	42.83	42.34	347.36	292.38	291.89	954.96	5.93	38
18. Dec. 5136	21:26:35	21:28:19	0:13:58	2:59:43	3: 1:27	73.3 /	95.86	95.82	10.15	284.48	284.44	963.93	4.99	35
16. June 5146	8:45:13	8:48:27	12:11: 8	15:33:41	15:36:55	-439.0	105.59	105.96	168.43	230.91	231.28	954.25	5.96	36
20. Dec. 5149	15:56:24	15:58:33	18:10:21	20:22:13	20:24:22	579.9 /	62.28	61.83	8.97	316.11	315.67	964.49	4.98	33
13. Dec. 5156	15:40: 1	15:43:47	17: 0: 4	18:16:23	18:20: 9	-852.9 /	163.84	164.97	192.02	219.07	220.20	962.78	5.00	39
16. Dec. 5169	8:27: 0	8:28:51	11: 5:15	13:41:45	13:43:36	-333.2 /	121.03	121.25	190.86	260.47	260.69	963.36	4.99	37
14. June 5179	9:24:12	9:27:15	12:58: 7	16:28:50	16:31:53	351.5	56.28	56.00	347.79	279.58	279.30	954.87	5.94	38
19. Dec. 5182	2:21:44	2:23:30	5: 6:36	7:49:48	7:51:33	179.6 /	89.06	88.94	9.69	290.43	290.32	963.98	4.99	35
16. June 5192	15:39:47	15:43:38	18:34:18	21:24:52	21:28:43	-632.0	119.98	120.61	168.87	217.12	217.75	954.20	5.97	36
21. Dec. 5195	21: 3:58	21: 6:24	23: 1:59	0:57:36	1: 0: 3	686.2 /	53.49	52.89	8.50	324.12	323.52	964.56	4.98	33
14. Dec. 5202	20: 3:41	20: 6:26	21:51:57	23:37:31	23:40:17	-743.9 /	151.82	152.55	191.56	230.58	231.30	962.84	5.00	39
17. Dec. 5215	13:13: 5	13:14:52	15:56:50	18:38:54	18:40:41	-226.6 /	113.98	114.12	190.40	266.67	266.81	963.45	4.99	37
14. June 5225	15:36:46	15:39:39	19:23:44	23: 7:38	23:10:31	158.9	68.65	68.53	348.23	267.92	267.80	954.83	5.94	38
19. Dec. 5228	7:17:49	7:19:37	9:58: 0	12:36:29	12:38:18	286.0 /	82.11	81.92	9.22	296.52	296.33	964.01	4.98	35
18. June 5238	23:12: 0	23:17:54	1: 7:50	2:57:44	3: 3:37	-832.0	139.34	140.62	169.31	198.01	199.29	954.14	5.97	36
22. Dec. 5241	2:15:33	2:18:32	3:52: 5	5:25:39	5:28:39	791.1 /	43.39	42.54	8.04	333.53	332.68	964.58	4.98	33
15. Dec. 5248	0:36:42	0:39: 1	2:44:21	4:49:44	4:52: 4	-635.0 /	142.14	142.66	191.10	239.54	240.06	962.87	5.00	39

m

12. June 5258	19:31:10	19:43:49	20:27:52	21:11:55	21:24:34	931.2	1.98	358.86	347.61	336.36	333.24	955.39	5.92	40
17. Dec. 5261	18: 1:39	18: 3:24	20:48:42	23:34: 6	23:35:51	-118.5 /	107.01	107.08	189.94	272.78	272.86	963.48	4.99	37
16. June 5271	21:58:53	22: 1:44	1:49: 8	5:36:21	5:39:12	-34.6	80.67	80.69	168.66	256.63	256.66	954.70	5.94	38
20. Dec. 5274	12:16: 7	12:18: 1	14:49:23	17:20:51	17:22:44	391.6 /	74.97	74.70	8.76	302.81	302.54	964.08	4.98	35
23. Dec. 5287	7:36:29	7:41: 5	8:40:44	9:40:25	9:45: 1	894.9 /	30.24	28.76	7.57	346.37	344.90	964.64	4.98	33
16. Dec. 5294	5:15:32	5:17:37	7:37:18	9:57: 4	9:59: 9	-527.0 /	133.67	134.06	190.64	247.22	247.61	962.97	5.00	39
14. June 5304	0:22:23	0:26:53	2:47: 7	5: 7:17	5:11:47	744.2 /	27.27	26.39	348.04	309.68	308.80	955.35	5.92	40
20. Dec. 5307	22:53:44	22:55:28	1:41:56	4:28:30	4:30:14	-10.6 /	100.15	100.15	189.47	278.78	278.79	963.54	4.99	37
17. June 5317	4:31:50	4:34:46	8:15:55	11:56:53	11:59:50	-228.1 /	92.78	92.95	169.10	245.24	245.42	954.64	5.95	38
21. Dec. 5320	17:15:38	17:17:39	19:39:15	22: 0:55	22: 2:56	498.5 /	67.38	67.02	8.29	309.55	309.20	964.11	4.98	35
15. Dec. 5327	17:40:30	17:48:40	18:20:53	18:53: 6	19: 1:17	-939.7 /	177.59	180.30	191.34	202.39	205.09	962.46	5.00	41
17. Dec. 5340	9:57:26	9:59:22	12:29:41	15: 0: 5	15: 2: 2	-419.0 /	125.87	126.16	190.18	254.20	254.49	963.03	5.00	39
15. June 5350	6: 3:56	6: 7:24	9:10:49	12:14: 7	12:17:35	555.2	43.14	42.63	348.47	294.30	293.80	955.25	5.92	40
20. Dec. 5353	3:46:43	3:48:27	6:33:59	9:19:37	9:21:21	95.9 /	93.37	93.31	8.99	284.69	284.63	963.61	4.99	37
18. June 5363	11:10:30	11:13:41	14:38:10	18: 2:30	18: 5:41	-420.2	105.42	105.77	169.53	233.29	233.64	954.57	5.95	38
23. Dec. 5366	22:18:57	22:21: 9	0:29:54	2:38:44	2:40:56	603.4 /	59.36	58.88	7.82	316.76	316.29	964.19	4.98	35
15. Dec. 5373	21:47: 3	21:50:31	23:14: 4	0:37:37	0:41: 6	-830.6 /	160.05	161.06	190.88	220.70	221.71	962.50	5.00	41
18. Dec. 5386	14:43: 1	14:44:51	17:22:52	20: 0:59	20: 2:50	-310.6 /	118.47	118.67	189.72	260.76	260.96	963.12	4.99	39
15. June 5396	11:58:23	12: 1:27	15:30:16	18:58:54	19: 1:58	366.9	56.40	56.11	348.89	281.68	281.39	955.20	5.93	40
21. Dec. 5399	8:40:23	8:42: 9	11:24:40	14: 7:17	14: 9: 3	202.3 /	86.54	86.41	8.54	290.67	290.54	963.69	4.99	37
19. June 5409	18: 9:34	18:13:19	21: 7: 1	0: 0:38	0: 4:23	-615.7	119.79	120.40	169.97	219.55	220.16	954.51	5.96	38
24. Dec. 5412	3:25:15	3:27:47	5:19:21	7:10:56	7:13:28	708.8 /	50.40	49.75	7.35	324.96	324.32	964.24	4.98	35
18. Dec. 5419	2:15: 8	2:17:46	4: 8:15	5:58:46	6: 1:25	-720.6 /	148.59	149.26	190.42	231.58	232.25	962.53	5.00	41
19. Dec. 5432	19:30:41	19:32:28	22:15:37	0:58:53	1: 0:39	-202.5 /	111.37	111.50	189.25	267.00	267.13	963.13	4.99	39
17. June 5442	18: 9: 4	18:11:57	21:54:43	1:37:17	1:40:10	175.7	68.74	68.60	349.33	270.05	269.92	955.10	5.93	40
22. Dec. 5445	13:36:51	13:38:40	16:15:55	18:53:16	18:55: 6	309.5 /	79.49	79.29	8.07	296.86	296.66	963.75	4.99	37
21. June 5455	1:26:39	1:32: 4	3:31:13	5:30:20	5:35:45	-809.4 /	137.81	138.96	170.41	201.86	203.01	954.42	5.96	38
25. Dec. 5458	8:38:11	8:41:23	10: 9: 7	11:36:52	11:40: 4	813.4 /	39.87	38.94	6.89	334.84	333.91	964.33	4.98	35
18. Dec. 5465	6:50:58	6:53:14	9: 2: 6	11:11: 3	11:13:19	-612.4 /	139.26	139.75	189.96	240.17	240.66	962.60	5.00	41
m 15. June 5475	22:20:23	22:38:30	23: 4:24	23:30:18	23:48:25	943.5	359.85	355.32	348.71	342.10	337.58	955.78	5.91	42
21. Dec. 5478	0:21:28	0:23:12	3: 9:12	5:55:19	5:57: 4	-93.9 /	104.40	104.46	188.78	273.11	273.17	963.20	4.99	39
18. June 5488	0:31: 4	0:33:55	4:20:50	8: 7:34	8:10:24	-16.9	80.71	80.72	169.76	258.80	258.82	955.07	5.94	40
23. Dec. 5491	18:35: 8	18:37: 3	21: 6:38	23:36:18	23:38:13	416.3 /	72.20	71.92	7.60	303.29	303.00	963.78	4.98	37
26. Dec. 5504	14: 7:30	14:13:13	15: 0:19	15:47:24	15:53: 7	919.7 /	24.86	22.98	6.42	349.86	347.98	964.36	4.98	35
20. Dec. 5511	11:30:17	11:32:21	13:54:48	16:17:21	16:19:24	-503.7 /	130.91	131.27	189.49	247.72	248.08	962.65	5.00	41
17. June 5521	3: 8:29	3:13: 3	5:29:49	7:46:30	7:51: 4	754.6	27.41	26.50	349.14	311.79	310.88	955.67	5.91	42
22. Dec. 5524	5:11:52	5:13:36	8: 0:17	10:47: 4	10:48:49	12.8 /	97.61	97.61	8.32	279.03	279.02	963.24	4.99	39
20. June 5534	7: 2:32	7: 5:27	10:46:59	14:28:21	14:31:16	-211.1 /	92.83	92.99	170.20	247.41	247.57	954.99	5.94	40
25. Dec. 5537	23:36:38	23:38:41	1:57:53	4:17:10	4:19:13	522.1 /	64.58	64.20	7.14	310.08	309.70	963.85	4.98	37
18. Dec. 5544	23:42:24	23:48:17	0:35:54	1:23:32	1:29:25	-918.0 /	171.87	173.78	190.20	206.62	208.52	962.10	5.00	43
20. Dec. 5557	16:13:27	16:15:22	18:47:51	21:20:26	21:22:21	-395.1 /	123.17	123.44	189.03	254.62	254.89	962.72	5.00	41
18. June 5567	8:43:34	8:47: 4	11:47:49	14:48:26	14:51:56	567.9	43.33	42.80	349.57	296.34	295.82	955.58	5.92	42
23. Dec. 5570	10: 2:59	10: 4:43	12:50: 1	15:35:25	15:37:10	119.1 /	90.84	90.77	7.86	284.94	284.87	963.32	4.99	39
20. June 5580	13:45:14	13:48:23	17:14: 4	20:39:38	20:42:46	-405.2	105.53	105.86	170.64	235.41	235.75	954.92	5.95	40

26. Dec. 5583	4:40:43	4:42:59	6:48:20	8:53:45	8:56:2	627.9 /	56.32	55.81	6.67	317.54	317.03	963.87	4.98	37
19. Dec. 5590	3:57:18	4:0:32	5:30:52	7:1:14	7:4:28	-807.3 /	156.34	157.26	189.74	222.21	223.13	962.18	5.00	43
21. Dec. 5603	20:58:26	21:0:15	23:39:48	2:19:27	2:21:17	-287.7 /	115.91	116.09	188.57	261.04	261.23	962.75	5.00	41
18. June 5613	14:42:6	14:45:10	18:12:18	21:39:16	21:42:20	378.1 /	56.80	56.49	350.00	283.52	283.21	955.49	5.92	42
23. Dec. 5616	14:57:16	14:59:3	17:40:50	20:22:43	20:24:30	226.1 /	83.94	83.80	7.39	290.99	290.84	963.36	4.99	39
21. June 5626	20:36:4	20:39:44	23:36:37	2:33:23	2:37:3	-597.7 /	119.49	120.07	171.07	222.08	222.65	954.81	5.95	40
26. Dec. 5629	9:49:59	9:52:38	11:39:27	13:26:18	13:28:57	733.4 /	47.06	46.36	6.21	326.06	325.36	963.96	4.98	37
19. Dec. 5636	8:27:17	8:29:50	10:24:37	12:19:28	12:22:1	-699.0 /	145.58	146.21	189.27	232.34	232.97	962.27	5.00	43
22. Dec. 5649	1:46:11	1:47:57	4:32:9	7:16:28	7:18:14	-179.2 /	108.83	108.94	188.10	267.27	267.38	962.87	4.99	41
20. June 5659	20:50:35	20:53:27	0:35:5	4:16:32	4:19:24	187.4 /	69.14	69.00	350.43	271.87	271.73	955.45	5.93	42
24. Dec. 5662	19:54:58	19:56:49	22:32:49	1:8:55	1:10:45	333.1 /	76.86	76.64	6.93	297.21	296.99	963.41	4.99	39
22. June 5672	3:54:38	3:59:48	6:4:38	8:9:26	8:14:35	-793.9 /	137.21	138.28	171.51	204.75	205.82	954.76	5.95	40
27. Dec. 5675	15:7:7	15:10:37	16:30:45	17:50:54	17:54:24	839.4 /	35.75	34.70	5.75	336.79	335.74	963.97	4.98	37
20. Dec. 5682	13:2:59	13:5:12	15:17:33	17:29:59	17:32:12	-588.9 /	136.35	136.81	188.81	240.81	241.27	962.33	5.00	43
m 17. June 5692	1:20:5	--	1:48:38	--	2:17:10	954.3 /	357.04	--	349.82	--	342.61	956.06	5.90	44
23. Dec. 5695	6:34:51	6:36:35	9:23:9	12:9:50	12:11:35	-71.9 /	101.95	101.99	187.64	273.28	273.33	962.92	4.99	41
C 21. June 5705	3:8:29	3:11:19	6:57:39	10:43:48	10:46:38	-2.4 /	80.95	80.95	170.86	260.78	260.79	955.35	5.93	42
26. Dec. 5708	0:55:31	0:57:27	3:25:11	5:53:0	5:54:56	439.9 /	69.49	69.19	6.46	303.73	303.43	963.52	4.99	39
28. Dec. 5721	20:45:54	20:54:39	21:23:0	21:51:21	22:0:6	944.9 /	18.10	15.15	5.28	355.42	352.46	964.06	4.98	37
21. Dec. 5728	17:43:35	17:45:36	20:10:41	22:35:51	22:37:52	-480.7 /	128.18	128.53	188.35	248.17	248.51	962.38	5.00	43
19. June 5738	5:49:53	5:54:35	8:6:21	10:18:2	10:22:44	769.4 /	27.09	26.13	350.25	314.36	313.40	955.98	5.90	44
24. Dec. 5741	11:26:30	11:28:15	14:15:3	17:1:58	17:3:43	36.5 /	95.07	95.04	7.17	279.30	279.28	963.00	4.99	41
22. June 5751	9:34:2	9:36:56	13:18:47	17:0:28	17:3:21	-193.5 /	92.85	93.00	171.30	249.60	249.75	955.32	5.93	42
27. Dec. 5754	5:58:36	6:0:42	8:17:9	10:33:42	10:35:48	547.0 /	61.66	61.25	5.99	310.74	310.33	963.57	4.98	39
20. Dec. 5761	5:48:15	5:53:2	6:53:17	7:53:34	7:58:20	-893.5 /	166.62	168.11	189.05	209.99	211.48	961.82	5.01	45
23. Dec. 5774	22:26:38	22:28:31	1:2:59	3:37:33	3:39:27	-371.9 /	120.54	120.79	187.88	254.98	255.23	962.41	5.00	43
19. June 5784	11:29:55	11:33:26	14:31:45	17:29:56	17:33:27	578.9 /	43.63	43.09	350.68	298.26	297.73	955.93	5.91	44
25. Dec. 5787	16:21:10	16:22:55	19:7:51	21:52:53	21:54:39	143.7 /	88.23	88.14	6.71	285.28	285.19	963.02	4.99	41
22. June 5797	16:11:18	16:14:24	19:41:47	23:9:1	23:12:7	-385.1 /	105.29	105.61	171.73	237.86	238.17	955.23	5.94	42
28. Dec. 5800	11:6:4	11:8:25	13:9:51	15:11:21	15:13:43	653.9 /	53.11	52.56	5.53	318.50	317.95	963.63	4.98	39
22. Dec. 5807	10:6:18	10:9:20	11:45:38	13:21:58	13:25:1	-785.0 /	152.90	153.74	188.59	223.44	224.28	961.89	5.01	45
24. Dec. 5820	3:12:37	3:14:26	5:55:28	8:56:37	8:58:26	-263.6 /	113.28	113.45	187.42	261.39	261.56	962.50	5.00	43
21. June 5830	17:25:24	17:28:28	20:53:57	0:19:17	0:22:21	388.5 /	57.23	56.92	351.11	285.30	284.98	955.88	5.91	44
27. Dec. 5833	21:18:47	21:20:35	0:1:24	2:42:20	2:44:8	252.2 /	81.19	81.03	6.24	291.46	291.30	963.07	4.99	41
25. June 5843	23:7:39	23:11:15	2:10:41	5:10:1	5:13:36	-582.0 /	119.39	119.94	172.17	224.40	224.95	955.19	5.94	42
29. Dec. 5846	16:17:12	16:20:0	18:1:16	19:42:34	19:45:23	759.5 /	43.46	42.70	5.07	327.44	326.68	963.63	4.98	39
22. Dec. 5853	14:36:4	14:38:32	16:37:43	18:56:57	18:59:25	-675.5 /	142.48	143.07	188.13	233.19	233.78	961.95	5.00	45
25. Dec. 5866	8:0:21	8:2:7	10:47:17	13:32:35	13:34:22	-155.1 /	106.23	106.33	186.96	267.58	267.68	962.54	5.00	43
22. June 5876	23:32:32	23:35:24	3:15:48	6:56:1	6:58:53	200.1 /	69.47	69.32	351.55	273.75	273.60	955.75	5.92	44
28. Dec. 5879	2:17:19	2:19:11	4:53:40	7:28:14	7:30:7	358.8 /	74.08	73.84	5.78	297.72	297.49	963.15	4.99	41
25. June 5889	6:19:33	6:24:27	8:35:3	10:45:36	10:50:29	-777.0 /	136.51	137.51	172.60	207.69	208.69	955.12	5.95	42
29. Dec. 5892	21:37:44	21:41:40	22:52:54	0:4:9	0:8:5	865.8 /	31.28	30.06	4.61	339.15	337.94	963.71	4.98	39
23. Dec. 5899	19:13:22	19:15:32	21:30:54	23:46:21	23:48:31	-567.6 /	133.65	134.08	187.67	241.25	241.69	962.02	5.00	45
m 21. June 5909	--	--	4:35:11	--	--	963.6 /	--	--	350.93	--	--	956.37	5.89	46

26. Dec. 5912	12:51:41	12:53:26	15:40:30	18:27:42	18:29:27	-46.9 /	99.33	99.35	186.49	273.63	273.66	962.61	4.99	43
c 24. June 5922	5:45:37	5:48:26	9:34:10	13:19:42	13:22:30	10.9	81.26	81.25	351.97	262.68	262.68	955.70	5.92	44
29. Dec. 5925	7:17:42	7:19:41	9:45:9	12:10:43	12:12:42	466.0 /	66.59	66.27	5.32	304.37	304.05	963.19	4.99	41
m 1. Jan. 5939	--	--	3:42:34	--	--	971.1 /	--	--	4.15	--	--	963.74	4.98	39
25. Dec. 5945	23:54:44	23:56:44	2:24:21	4:52:4	4:54:3	-456.9 /	125.44	125.76	187.20	248.65	248.97	962.08	5.00	45
22. June 5955	8:42:23	8:47:8	10:56:52	13:6:31	13:11:15	774.7	27.70	26.72	351.36	315.99	315.02	956.30	5.90	46
27. Dec. 5958	17:45:12	17:46:57	20:33:47	23:20:43	23:22:28	60.3 /	92.51	92.47	6.03	279.59	279.55	962.67	4.99	43
24. June 5968	12:13:24	12:16:16	15:58:11	19:39:55	19:42:47	-180.0 /	93.13	93.27	172.40	251.53	251.67	955.60	5.93	44
30. Dec. 5971	12:21:42	12:23:51	14:37:18	16:50:49	16:52:59	572.4 /	58.66	58.22	4.86	311.50	311.06	963.24	4.99	41
23. Dec. 5978	11:51:3	11:55:14	13:4:57	14:14:42	14:18:53	-871.1 /	162.25	163.53	187.91	212.29	213.57	961.56	5.01	47
26. Dec. 5991	4:40:18	4:42:11	7:18:34	9:55:4	9:56:57	-348.0 /	117.87	118.10	186.74	255.37	255.60	962.18	5.00	45
22. June 6001	14:13:50	14:17:23	17:13:12	20:8:53	20:12:25	590.0 /	43.92	43.36	351.78	300.20	299.65	956.25	5.90	46
28. Dec. 6004	22:41:38	22:43:24	1:27:47	4:12:17	4:14:4	170.2 /	85.49	85.38	5.57	285.75	285.64	962.76	4.99	43
25. June 6014	18:52:28	18:55:32	22:23:29	1:51:16	1:54:21	-374.4 /	105.69	105.99	172.83	239.66	239.96	955.56	5.93	44
30. Dec. 6017	17:28:38	17:31:4	19:28:28	21:25:56	21:28:22	678.7 /	49.94	49.35	4.40	319.45	318.86	963.29	4.98	41
23. Dec. 6024	16:13:50	16:16:43	17:58:46	19:40:52	19:43:45	-761.6 /	149.46	150.23	187.45	224.65	225.43	961.62	5.01	47
26. Dec. 6037	9:28:14	9:30:3	12:12:32	14:55:8	14:56:57	-237.8 /	110.55	110.71	186.28	261.84	262.00	962.21	5.00	45
23. June 6047	20:7:16	20:10:21	23:33:45	2:56:59	3:0:3	402.7 /	57.41	57.08	352.20	287.33	287.00	956.16	5.91	46
29. Dec. 6050	3:38:39	3:40:28	6:20:16	9:0:10	9:1:59	277.2 /	78.51	78.33	5.11	291.88	291.70	962.82	4.99	43
26. June 6060	1:39:5	1:42:36	4:44:42	7:46:40	7:50:10	-564.9	119.19	119.71	173.26	226.80	227.32	955.48	5.93	44
1. Jan. 6064	22:41:53	22:44:52	0:19:59	1:55:8	1:58:8	785.9 /	39.72	38.88	3.94	329.00	328.16	963.40	4.98	41
24. Dec. 6070	20:47:19	20:49:43	22:53:1	0:56:23	0:58:47	-652.0 /	139.44	139.99	186.98	233.98	234.53	961.65	5.01	47
27. Dec. 6083	14:19:11	14:20:57	17:7:2	19:53:14	19:55:0	-129.8 /	103.58	103.66	185.81	267.97	268.05	962.28	5.00	45
24. June 6093	2:10:24	2:13:16	5:52:17	9:31:7	9:33:59	214.9	69.67	69.51	352.63	275.76	275.60	956.13	5.91	46
29. Dec. 6096	8:37:24	8:39:18	11:12:2	13:44:52	13:46:46	385.3 /	71.23	70.97	4.65	298.32	298.06	962.86	4.99	43
28. June 6106	8:47:59	8:52:39	11:9:7	13:25:31	13:30:10	-758.4	135.72	136.66	173.68	210.71	211.64	955.44	5.94	44
2. Jan. 6110	4:5:19	4:9:53	5:10:42	6:11:33	6:16:7	891.9 /	26.44	24.99	3.49	341.98	340.53	963.42	4.98	41
26. Dec. 6116	1:26:24	1:28:32	3:47:24	6:6:21	6:8:29	-541.0 /	130.59	131.00	186.52	242.04	242.45	961.72	5.00	47
m 23. June 6126	--	--	7:28:15	--	--	966.6	--	--	352.04	--	--	956.72	5.88	48
28. Dec. 6129	19:10:36	19:12:21	21:59:49	0:47:25	0:49:10	-21.4 /	96.68	96.69	185.36	274.02	274.03	962.30	5.00	45
26. June 6139	8:31:34	8:34:22	12:19:26	16:4:18	16:7:6	21.7	81.71	81.70	353.06	264.43	264.41	956.04	5.91	46
31. Dec. 6142	13:39:2	13:41:3	16:4:8	18:27:19	18:29:20	491.6 /	63.71	63.36	4.19	305.02	304.67	962.90	4.99	43
m 24. Dec. 6149	14:1:11	--	14:23:36	--	14:46:2	-957.8 /	179.69	--	187.22	--	194.76	961.17	5.01	49
m 28. June 6152	17:0:9	--	17:32:45	--	18:5:20	-951.6	165.95	--	174.11	--	182.27	955.36	5.94	44
27. Dec. 6162	6:9:51	6:11:49	8:41:56	11:12:10	11:14:8	-432.0 /	122.64	122.94	186.06	249.18	249.48	961.80	5.00	47
23. June 6172	11:31:48	11:36:38	13:42:51	15:49:0	15:53:50	784.4	27.85	26.84	352.46	318.08	317.07	956.63	5.89	48
30. Dec. 6175	0:4:27	0:6:12	2:52:53	5:39:42	5:41:27	87.8 /	89.74	89.68	4.89	280.10	280.05	962.39	4.99	45
26. June 6185	14:58:51	15:1:42	18:43:26	22:24:58	22:27:49	-170.8	93.66	93.79	173.49	253.19	253.32	955.97	5.92	46
31. Dec. 6188	18:43:22	18:45:35	20:55:34	23:5:37	23:7:50	599.3 /	55.52	55.05	3.73	312.42	311.94	962.93	4.99	43
25. Dec. 6195	17:57:2	18:0:48	19:18:42	20:36:38	20:40:24	-848.7 /	158.22	159.35	186.77	214.18	215.31	961.28	5.01	49
28. Dec. 6208	10:55:39	10:57:31	13:35:49	16:14:14	16:16:6	-322.1 /	115.11	115.32	185.60	255.88	256.09	961.84	5.00	47
25. June 6218	17:6:16	17:9:49	20:3:54	22:57:51	23:1:24	596.9	44.51	43.95	352.88	301.81	301.25	956.55	5.89	48
31. Dec. 6221	4:59:10	5:0:57	7:44:42	10:28:34	10:30:22	195.6 /	82.82	82.70	4.44	286.17	286.05	962.42	4.99	45
29. June 6231	21:31:11	21:34:13	1:3:9	4:31:55	4:34:57	-359.1	105.78	106.07	173.91	241.76	242.05	955.85	5.92	46

3. Jan.	6235	23:51:46	23:54:19	1:46:57	3:39:38	3:42:11	705.6 /	46.52	45.88	3.28	320.68	320.04	963.02	4.99	43
27. Dec.	6241	22:23:21	22:26:6	0:13:38	2: 1:13	2: 3:58	-737.5 /	146.08	146.79	186.30	225.82	226.53	961.34	5.01	49
29. Dec.	6254	15:44:18	15:46:6	18:29:49	21:13:40	21:15:29	-214.3 /	107.99	108.13	185.14	262.16	262.29	961.93	5.00	47
26. June	6264	22:55:58	22:59:3	2:20:49	5:42:25	5:45:29	412.4 /	57.88	57.54	353.30	289.07	288.73	956.49	5.90	48
1. Jan.	6268	9:55:56	9:57:46	12:36:21	15:15:2	15:16:53	303.0 /	75.78	75.59	3.98	292.38	292.18	962.50	4.99	45
29. June	6277	4:17:29	4:20:57	7:24:55	10:28:46	10:32:12	-551.4 /	119.27	119.77	174.33	228.90	229.40	955.81	5.93	46
3. Jan.	6281	5: 6:51	5:10:4	6:38:23	8: 6:43	8: 9:57	812.1 /	35.84	34.90	2.83	330.75	329.82	963.04	4.98	43
28. Dec.	6287	2:59:43	3: 2:3	5: 9:39	7:17:20	7:19:40	-625.8 /	136.24	136.75	185.84	234.93	235.44	961.41	5.01	49
30. Dec.	6300	20:33:52	20:35:37	23:22:30	2: 9:30	2:11:16	-104.0 /	100.91	100.97	184.68	268.40	268.46	961.97	5.00	47
28. June	6310	5: 1:57	5: 4:48	8:42:49	12:20:37	12:23:29	222.3 /	70.31	70.14	353.72	277.31	277.14	956.39	5.90	48
2. Jan.	6314	14:55:27	14:57:22	17:28:23	19:59:30	20: 1:26	409.5 /	68.54	68.26	3.53	298.80	298.52	962.57	4.99	45
1. July	6323	11:20:55	11:25:24	13:46:35	16: 7:42	16:12:11	-742.0 /	135.22	136.10	174.76	213.42	214.30	955.72	5.93	46
5. Jan.	6327	10:37:27	10:43:9	11:31:0	12:18:52	12:24:34	917.6 /	20.98	19.11	2.38	345.65	343.78	963.13	4.98	43
29. Dec.	6333	7:40:24	7:42:29	10: 4:29	12:26:35	12:28:41	-515.8 /	127.68	128.06	185.38	242.71	243.09	961.46	5.01	49
c	1. Jan.	6347	1:26:35	1:28:20	4:16:5	7: 3:57	5:0 /	93.98	93.98	4.23	274.48	274.47	962.07	5.00	47
28. June	6356	11:14:5	11:16:52	15: 1:13	18:45:22	18:48:10	35.2 /	81.99	81.97	354.14	266.32	266.30	956.35	5.91	48
3. Jan.	6360	19:58:40	20: 0:44	22:21:3	0:41:28	0:43:32	518.8 /	60.70	60.31	3.07	305.83	305.45	962.63	4.99	45
27. Dec.	6366	19:56:0	20: 3:38	20:39:32	21:15:27	21:23:4	-934.2 /	171.37	173.86	186.09	198.31	200.80	960.92	5.01	50
1. July	6369	19:21:22	19:36:30	20:11:35	20:46:40	21: 1:47	-938.3 /	162.52	166.26	175.18	184.10	187.84	955.66	5.94	46
30. Dec.	6379	12:23:40	12:25:37	14:58:8	17:30:47	17:32:44	-406.4 /	119.84	120.11	184.93	249.74	250.02	961.50	5.00	49
26. June	6389	14:26:17	14:31:12	16:34:23	18:37:31	18:42:26	792.3 /	28.15	27.11	353.55	320.00	318.96	956.98	5.88	51
1. Jan.	6393	6:20:20	6:22:5	9: 8:32	11:55:6	11:56:52	113.9 /	87.06	86.99	3.77	280.55	280.48	962.09	5.00	47
29. June	6402	17:35:48	17:38:38	21:20:29	1: 2:8	1: 4:58	-153.0 /	93.65	93.77	174.56	255.36	255.47	956.26	5.91	48
4. Jan.	6406	1: 5:46	1: 8:4	3:14:25	5:20:51	5:23:9	625.4 /	52.40	51.90	2.63	313.35	312.85	962.70	4.99	45
28. Dec.	6412	0: 4:12	0: 7:39	1:33:48	2:59:59	3: 3:26	-822.9 /	154.07	155.06	185.63	216.19	217.18	960.96	5.01	50
30. Dec.	6425	17: 9:29	17:11:20	19:51:22	22:31:30	22:33:21	-297.4 /	112.44	112.63	184.47	256.31	256.51	961.56	5.00	49
27. June	6435	19:57:38	20: 1:13	22:52:53	1:44:26	1:48:0	607.0 /	44.84	44.26	353.97	303.68	303.10	956.89	5.89	51
2. Jan.	6439	11:16:19	11:18:6	14: 1:7	16:44:14	16:46:2	220.9 /	80.17	80.03	3.32	286.61	286.47	962.16	4.99	47
30. June	6448	0: 9:11	0:12:11	3:41:55	7:11:30	7:14:30	-344.6 /	105.91	106.19	174.98	243.78	244.05	956.24	5.92	48
5. Jan.	6452	6:17:26	6:20:7	8: 7:24	9:54:44	9:57:24	733.2 /	42.95	42.25	2.18	322.10	321.40	962.72	4.99	45
29. Dec.	6458	4:34:0	4:36:38	6:29:38	8:22:42	8:25:20	-711.4 /	142.63	143.28	185.17	227.05	227.71	961.03	5.01	50
1. Jan.	6472	21:57:6	21:58:53	0:43:53	3:29:0	3:30:47	-187.1 /	105.23	105.35	184.02	262.69	262.80	961.60	5.00	49
28. June	6481	1:50:3	1:53:8	5:13:45	8:34:11	8:37:16	417.7 /	58.63	58.28	354.39	290.50	290.15	956.78	5.89	51
2. Jan.	6485	16:14:40	16:16:31	18:53:45	21:31:5	21:32:56	328.8 /	73.05	72.83	2.87	292.91	292.70	962.20	4.99	47
1. July	6494	6:56:20	6:59:43	10: 5:36	13:11:21	13:14:45	-537.0 /	119.28	119.77	175.40	231.03	231.52	956.12	5.92	48
5. Jan.	6498	11:36:26	11:39:58	13: 0:23	14:20:50	14:24:23	838.9 /	31.67	30.61	1.73	332.85	331.80	962.78	4.99	45
30. Dec.	6504	9: 9:46	9:12:2	11:23:25	13:34:53	13:37:9	-601.5 /	133.26	133.73	184.71	235.69	236.17	961.08	5.01	50
2. Jan.	6518	2:48:12	2:49:58	5:37:31	8:25:11	8:26:57	-78.7 /	98.29	98.34	183.57	268.79	268.84	961.69	5.00	49
30. June	6527	7:49:19	7:52:10	11:28:55	15: 5:28	15: 8:19	233.6 /	70.70	70.53	354.80	279.08	278.90	956.73	5.89	51
4. Jan.	6531	21:16:48	21:18:45	23:47:30	2:16:21	2:18:19	438.1 /	65.54	65.23	2.42	299.61	299.31	962.26	4.99	47
2. July	6540	14: 0:13	14: 4:35	16:28:46	18:52:51	18:57:13	-730.8 /	135.21	136.06	175.82	215.58	216.42	956.06	5.92	48
7. Jan.	6544	17:15:31	17:24:51	17:51:16	18:17:42	18:27:2	945.7 /	13.57	10.42	1.29	352.15	349.01	962.82	4.98	45
31. Dec.	6550	13:49:41	13:51:44	16:16:30	18:41:23	18:43:26	-492.4 /	124.94	125.30	184.26	243.22	243.58	961.18	5.01	50
3. Jan.	6564	7:40:56	7:42:41	10:30:36	13:18:39	13:20:25	30.2 /	91.38	91.36	3.11	274.87	274.85	961.73	5.00	49

30. June 6573	14: 1:17	14: 4: 4	17:47:41	21:31: 6	21:33:53	45.8	82.44	82.40	355.22	268.03	268.00	956.64	5.90	51
5. Jan. 6577	2:21:23	2:23:30	4:40:58	6:58:31	7: 0:38	544.9 /	57.73	57.33	1.98	306.63	306.22	962.32	4.99	47
30. Dec. 6583	1:54: 1	1:59:32	2:51:47	3:44: 3	3:49:35	-909.2 /	165.28	167.04	184.95	202.87	204.63	960.63	5.02	52
3. July 6586	21:40:29	21:50:53	22:47:14	23:43:35	23:53:59	-920.0 /	159.23	161.76	176.23	190.69	193.22	955.98	5.93	48
31. Dec. 6596	18:33:25	18:35:20	21:10: 2	23:44:51	23:46:47	-382.0 /	117.14	117.40	183.81	250.22	250.48	961.25	5.01	50
29. June 6606	17:20:17	17:25:18	19:25:11	21:25: 1	21:30: 1	800.8 /	28.35	27.28	354.63	321.99	320.91	957.23	5.87	53
4. Jan. 6610	12:36:43	12:38:29	15:24:37	18:10:52	18:12:39	138.0 /	84.51	84.43	2.67	280.91	280.82	961.84	5.00	49
3. July 6619	20:19:44	20:22:33	0: 4:14	3:45:44	3:48:32	-140.9 /	93.99	94.10	175.63	257.16	257.27	956.60	5.90	51
7. Jan. 6623	7:28:28	7:30:50	9:33: 9	11:35:31	11:37:53	652.3 /	49.17	48.63	1.53	314.44	313.89	962.40	4.99	47
31. Dec. 6629	6:10:56	6:14: 7	7:47:37	9:21:10	9:24:21	-797.3 /	150.17	151.06	184.50	217.94	218.83	960.71	5.01	52
3. Jan. 6643	23:21:11	23:23: 2	2: 4:44	4:46:32	4:48:23	-271.3 /	109.71	109.88	183.36	256.83	257.00	961.29	5.00	50
30. June 6652	22:49:26	22:53: 2	1:42:35	4:32: 1	4:35:36	615.5	45.28	44.69	355.05	305.41	304.82	957.18	5.88	53
5. Jan. 6656	17:34:38	17:36:27	20:18:29	23: 0:39	23: 2:28	247.9 /	77.42	77.26	2.22	287.18	287.03	961.88	5.00	49
3. July 6665	2:51:17	2:54:16	6:24:38	9:54:50	9:57:48	-331.1	106.11	106.37	176.04	245.71	245.97	956.49	5.91	51
7. Jan. 6669	12:40:47	12:43:36	14:25:27	16: 7:20	16:10:10	758.8 /	39.47	38.71	1.09	323.48	322.72	962.48	4.99	47
1. Jan. 6676	10:40:54	10:43:26	12:41: 9	14:38:55	14:41:27	-687.4 /	139.46	140.07	184.05	228.02	228.63	960.74	5.01	52
3. Jan. 6689	4:12:12	4:13:59	7: 0: 4	9:46:16	9:48: 3	-161.7 /	102.59	102.69	182.91	263.13	263.23	961.36	5.00	50
1. July 6698	4:34:51	4:37:56	7:56:19	11:14:33	11:17:38	432.0 /	58.75	58.40	355.45	292.51	292.16	957.14	5.88	53
7. Jan. 6702	22:36: 0	22:37:53	1:13:25	3:49: 3	3:50:56	357.2 /	70.14	69.91	1.77	293.64	293.40	961.95	4.99	49
5. July 6711	9:34:54	9:38:14	12:46: 5	15:53:48	15:57: 8	-521.6	119.22	119.68	176.45	233.22	233.68	956.46	5.91	51
9. Jan. 6715	18: 2:32	18: 6:32	19:17:15	20:27:58	20:31:59	867.3 /	26.98	25.74	0.66	335.57	334.33	962.50	4.99	47
2. Jan. 6722	15:17:43	15:19:56	17:34:49	19:49:47	19:52: 1	-577.5 /	130.36	130.81	183.60	236.39	236.84	960.83	5.01	52
5. Jan. 6735	9: 4:25	9: 6:11	11:54:18	14:42:33	14:44:19	-52.4 /	95.62	95.65	182.46	269.27	269.30	961.39	5.00	50
2. July 6744	10:39:47	10:42:38	14:18:11	17:53:33	17:56:24	243.3 /	71.18	70.99	355.87	280.74	280.56	957.07	5.89	53
8. Jan. 6748	3:37:59	3:39:58	6: 6:24	8:32:55	8:34:55	465.1 /	62.63	62.30	1.33	300.37	300.04	961.99	4.99	49
5. July 6757	16:33: 2	16:37:13	19: 6:13	21:35: 9	21:39:20	-712.1	134.54	135.34	176.85	218.37	219.16	956.39	5.92	51
3. Jan. 6768	19:59:35	20: 1:37	22:29:13	0:56:56	0:58:58	-466.8 /	122.10	122.43	183.15	243.88	244.21	960.87	5.01	52
5. Jan. 6781	13:58:38	14: 0:24	16:48:21	19:36:26	19:38:12	56.6 /	88.71	88.68	2.02	275.36	275.33	961.48	5.00	50
3. July 6790	16:49:20	16:52: 6	20:34:57	0:17:36	0:20:22	57.1	82.82	82.78	356.27	269.77	269.72	956.98	5.89	53
8. Jan. 6794	8:41:16	8:43:27	10:57:43	13:12: 3	13:14:14	571.8 /	54.69	54.25	0.90	307.54	307.10	962.05	4.99	49
1. Jan. 6801	7:53:53	7:58:30	9: 2:16	10: 6: 3	10:10:40	-885.6 /	160.40	161.82	183.84	205.85	207.28	960.38	5.02	54
7. July 6803	0:15:46	0:24:38	1:31:56	2:39:13	2:48: 5	-907.0	157.73	159.86	177.26	194.67	196.80	956.36	5.92	51
4. Jan. 6814	0:46:38	0:48:32	3:25:25	6: 2:24	6: 4:19	-355.8 /	114.36	114.60	182.70	250.81	251.05	960.92	5.01	52
1. July 6823	20:19:19	20:24:22	22:22:17	0:20: 8	0:25:10	805.6	28.94	27.85	355.71	323.56	322.47	957.57	5.86	55
6. Jan. 6827	18:53:59	18:55:46	21:41:21	0:27: 3	0:28:50	166.0 /	81.74	81.63	1.58	281.52	281.42	961.51	5.00	50
4. July 6836	23:10:44	23:13:32	2:54:53	6:36: 3	6:38:50	-132.2	94.52	94.62	176.68	258.74	258.84	956.87	5.89	53
9. Jan. 6840	13:49: 0	13:51:28	15:49:20	17:47:16	17:49:44	679.3 /	45.88	45.29	0.47	315.64	315.05	962.10	4.99	49
2. Jan. 6847	12:14:24	12:17:25	13:56:48	15:36:13	15:39:14	-774.8 /	146.79	147.60	183.39	219.18	219.99	960.44	5.02	54
5. Jan. 6860	5:35:31	5:37:21	8:20:32	11: 3:51	11: 5:41	-246.2 /	107.07	107.23	182.26	257.29	257.45	961.02	5.01	52
2. July 6869	1:43: 7	1:46:43	4:34:14	7:21:36	7:25:12	623.6	45.73	45.13	356.11	307.09	306.49	957.50	5.87	55
7. Jan. 6873	23:52:29	23:54:19	2:35:16	5:16:20	5:18:10	274.5 /	74.69	74.51	1.14	287.77	287.59	961.60	5.00	50
5. July 6882	5:40:18	5:43:14	9:14: 0	12:44:36	12:47:32	-319.9	106.44	106.69	177.08	247.48	247.73	956.84	5.90	53
9. Jan. 6886	19: 3:41	19: 6:43	20:41:47	22:16:54	22:19:56	787.4 /	35.56	34.71	0.03	325.35	324.51	962.12	4.99	49
2. Jan. 6893	16:48:24	16:50:52	18:53: 6	20:55:24	20:57:52	-662.8 /	136.33	136.89	182.94	228.99	229.56	960.52	5.01	54

6. Jan. 6906	10:25:46	10:27:33	13:14:35	16: 1:44	16: 3:32	-136.3 /	99.98	100.06	181.82	263.58	263.66	961.10	5.01	52
4. July 6915	7:32:19	7:35:24	10:52:23	14: 9:11	14:12:16	439.2	59.34	58.98	356.52	294.05	293.68	957.43	5.87	55
9. Jan. 6919	4:51:42	4:53:36	7:27:29	10: 1:27	10: 3:22	382.8 /	67.42	67.17	0.71	294.24	293.99	961.65	5.00	50
6. July 6928	12:18:57	12:22:14	15:31:36	18:40:49	18:44: 6	-508.4	119.31	119.75	177.48	235.21	235.65	956.75	5.90	53
12. Jan. 6932	0:30:18	0:35: 0	1:34:58	2:34:57	2:39:39	893.5 /	22.14	20.65	359.61	338.56	337.07	962.22	4.99	49
4. Jan. 6939	21:28:27	21:30:37	23:49: 2	2: 7:32	2: 9:43	-551.9 /	127.40	127.82	182.50	237.18	237.60	960.55	5.01	54
7. Jan. 6952	15:18:37	15:20:23	18: 8:57	20:57:39	20:59:25	-26.0 /	92.97	92.98	181.38	269.78	269.79	961.16	5.00	52
4. July 6961	13:28:40	13:31:31	17: 5:40	20:39:37	20:42:27	255.7	71.47	71.27	356.91	282.55	282.36	957.35	5.88	55
9. Jan. 6965	9:53:49	9:55:51	12:19:53	14:44: 1	14:46: 4	490.7 /	59.82	59.46	0.27	301.08	300.73	961.74	5.00	50
7. July 6974	19:13:32	19:17:36	21:50: 3	0:22:25	0:26:29	-697.5	134.28	135.03	177.88	220.72	221.48	956.71	5.91	53
5. Jan. 6985	2:13:32	2:15:31	4:45:57	7:16:30	7:18:30	-439.5 /	119.17	119.48	182.06	244.63	244.94	960.61	5.01	54
7. Jan. 6998	20:13: 1	20:14:47	23: 2:39	1:50:39	1:52:25	83.5 /	86.03	85.98	0.94	275.90	275.85	961.18	5.00	52

Computed constellations: 426840 ("/" means ascending node)

Tested planet. passages: 31520

Detected transits : 1340

Centr./grazing transits: 14 / 33

CPU-time 0: 0:43.872 -- end of run.

2. Venustransite 3000 BC - 7000 AD

Option 22: Tabelle sämtlicher Venustransite zwischen den Jahren 3000 BC und 7000 AD. Die Bezeichnungen haben dieselben Bedeutungen wie bei Option 21. Für den streifenden Transit wird anstelle von „m“ allerdings „v“ verwendet. Hinweis: Die Schnellstart-Option 22 existiert noch nicht in der aktuellen P4-Version vom Juni 2015. Der Programmlauf lässt sich mit letzterer Version reproduzieren, indem bei Programmstart folgende Parameter nacheinander eingegeben werden: 0, 3, 2, 1, 4, 2, 1, -3000., 7000., 1, 2.

P4 output:

TRANSITS OF VENUS

(geocentric transit phases, terrestrial time TT)

< P4-option 22 > (monitor line width minimal 148 characters)

VSP87C, comb. search, ecliptic of date, all Venus transits
 Period (years) from -3000.00 to 7000.00, Jul./Greg. calendar

co/p	date/	I	II	III	IV	sep["]	a	P1	P2	near.	P3	P4	s-Sun	s-pl.	S
C	18. Nov. -2970	2:38:17	2:53:36	6:41:18	10:29:2	10:44:21	16.6 /	118.55	118.48	29.46	300.42	300.35	976.49	31.76	2
	20. May -2864	16:39:54	16:55:21	20:32:34	0: 9:47	0:25:13	-295.9	79.10	80.28	151.40	222.52	223.69	942.15	29.14	1
	18. May -2856	11:44:27	12:23:10	13:33:27	14:43:43	15:22:26	869.1	357.44	348.77	330.96	313.15	304.47	941.97	29.11	3
	18. Nov. -2727	1:52:40	2: 8: 3	5:55:37	9:43:11	9:58:35	-66.1 /	122.82	123.08	209.03	294.97	295.23	976.52	31.79	2
	21. May -2621	20: 1:30	20:17:30	23:46:50	3:16: 9	3:32: 9	-377.0	84.72	86.28	151.92	217.56	219.11	942.02	29.12	1
	19. May -2613	14:18:49	14:45:40	16:41:34	18:37:28	19: 4:19	788.2	7.17	1.73	331.46	301.18	295.74	941.92	29.09	3
	18. Nov. -2484	0:41: 7	0:56:43	4:40:54	8:25: 7	8:40:43	-171.5 /	128.41	129.07	208.58	288.08	288.74	976.60	31.82	2
	22. May -2378	23:24:38	23:41:22	3: 0:10	6:18:58	6:35:42	-456.2	90.48	92.45	152.50	212.55	214.52	942.03	29.10	1
	19. May -2370	17:14:37	17:36:42	20: 2:16	22:27:49	22:49:54	705.6	15.37	11.36	332.00	292.64	288.63	941.91	29.07	3
	19. Nov. -2241	23:51:34	0: 7:33	3:46:38	7:25:44	7:41:43	-264.3 /	133.33	134.38	208.10	281.81	282.86	976.62	31.84	2
	22. May -2135	2:52: 8	3: 9:58	6:15:27	9:20:55	9:38:45	-538.1	96.71	99.18	153.09	207.00	209.47	941.96	29.08	1
	19. May -2127	20:14:19	20:33:50	23:21:33	2: 9:14	2:28:45	623.6	22.58	19.45	332.56	285.68	282.55	941.89	29.06	3
	19. Nov. -1998	22:35:36	22:52:16	2:21:54	5:51:33	6: 8:13	-374.0 /	139.41	140.96	207.60	274.25	275.80	976.60	31.86	2
	22. May -1892	6:24:53	6:44:15	9:33:16	12:22:17	12:41:39	-617.4	103.17	106.25	153.72	201.19	204.27	941.98	29.06	1
	20. May -1884	23:11: 0	23:28:54	2:32:47	5:36:39	5:54:33	545.4	28.96	26.45	333.17	279.89	277.38	941.93	29.04	3
v	21. Nov. -1763	10:48:59	--	11:58:19	--	13: 7:38	966.7 /	42.93	--	26.37	--	9.82	976.56	31.86	4
	19. Nov. -1755	21:41:55	21:59:33	1:16:52	4:34:11	4:51:49	-474.8 /	145.21	147.29	207.08	266.87	268.95	976.63	31.89	2
	23. May -1649	10: 2:54	10:24:37	12:52:46	15:20:55	15:42:39	-696.9	110.22	114.12	154.39	194.65	198.55	942.00	29.05	1

21. May -1641	2:31:10	2:47:53	6: 6: 4	9:24:13	9:40:56	459.9	35.48	33.51	333.79	274.08	272.11	941.96	29.03	3
21. Nov. -1520	8:50:10	9:24:47	10:52:43	12:20:39	12:55:16	871.9	56.00	48.47	25.82	3.16	355.63	976.48	31.87	4
18. Nov. -1512	20:37:14	20:56:32	23:55:54	2:55:16	3:14:33	-585.4	152.07	154.87	206.54	258.21	261.01	976.51	31.89	2
23. May -1406	13:50: 3	14:16:12	16:15:17	18:14:23	18:40:31	-780.3	118.52	123.78	155.07	186.36	191.62	942.00	29.03	1
21. May -1398	5:33:54	5:49:52	9:17:48	12:45:43	13: 1:41	384.6	41.08	39.51	334.46	269.42	267.84	942.00	29.02	3
22. Nov. -1277	6:52:37	7:17:14	9:32:42	11:48:10	12:12:47	760.3	66.32	61.65	25.22	348.78	344.12	976.50	31.89	4
19. Nov. -1269	19:48:47	20:10:26	22:47:46	1:25: 6	1:46:46	-684.5	158.75	162.44	205.96	249.49	253.18	976.51	31.92	2
23. May -1163	17:45: 2	18:20:51	19:39: 9	20:57:27	21:33:15	-858.1	127.85	135.80	155.80	175.80	183.74	942.11	29.03	1
21. May -1155	9: 3:17	9:18:37	12:55:25	16:32:12	16:47:33	295.9	47.37	46.20	335.15	264.10	262.94	942.10	29.01	3
22. Nov. -1034	5:27: 1	5:48: 9	8:30:18	11:12:28	11:33:35	665.6	73.33	69.83	24.60	339.37	335.87	976.37	31.90	4
19. Nov. -1026	19: 0:58	19:27:47	21:30:42	23:33:37	0: 0:26	-796.4	167.59	172.90	205.38	237.87	243.17	976.32	31.92	2
v 23. May -920	22: 7:55	--	23: 7: 1	--	0: 6: 7	-942.2	142.51	--	156.54	--	170.58	942.11	29.02	1
21. May -912	12:17:20	12:32:19	16:14:43	19:57: 5	20:12: 4	222.1	52.60	51.75	335.86	259.99	259.14	942.15	29.01	3
22. Nov. -791	3:41: 4	3:59:49	7: 5: 3	10:10:16	10:29: 1	553.1	80.75	78.16	23.96	329.77	327.19	976.32	31.92	4
19. Nov. -783	18:26:57	19: 7:28	20:17:16	21:27: 4	22: 7:36	-899.2	177.89	186.98	204.75	222.53	231.62	976.27	31.93	2
22. May -669	15:44:28	15:59:11	19:45:31	23:31:51	23:46:33	137.4	58.45	57.93	336.63	255.33	254.82	942.33	29.01	3
22. Nov. -548	2:20: 5	2:37:31	5:58:19	9:19: 6	9:36:32	451.2	86.77	84.80	23.30	321.80	319.84	976.16	31.92	4
v 19. Nov. -540	--	--	18:54:55	--	--	-1012.3	--	--	204.13	--	--	976.06	31.93	2
22. May -426	19: 7:21	19:21:56	23:10:37	2:59:17	3:13:52	61.5	63.71	63.48	337.39	251.30	251.07	942.39	29.00	3
23. Nov. -305	0:35:45	0:52:13	4:26: 2	7:59:51	8:16:20	335.5	93.25	91.87	22.63	313.40	312.02	976.03	31.92	4
C 23. May -183	22:26:21	22:40:53	2:29:43	6:18:33	6:33: 5	-11.0	68.80	68.84	158.20	247.57	247.61	942.61	29.01	3
23. Nov. -62	23:16:16	23:32:11	3:13:53	6:55:36	7:11:31	229.8	98.81	97.89	21.93	305.96	305.05	975.86	31.92	4
23. May 60	1:51:24	2: 6: 0	5:53:59	9:41:56	9:56:32	-87.4	74.12	74.45	159.02	243.59	243.92	942.72	29.01	3
23. Nov. 181	21:44: 5	21:59:41	1:46:56	5:34:12	5:49:48	114.3	104.77	104.32	21.22	298.11	297.67	975.64	31.91	4
24. May 303	5:13:44	5:28:28	9:13:53	12:59:18	13:14: 3	-157.7	79.15	79.75	159.87	239.98	240.59	942.95	29.02	3
C 23. Nov. 424	20:28:19	20:43:47	0:32:26	4:21: 4	4:36:32	9.6	109.99	109.95	20.47	291.00	290.95	975.45	31.91	4
24. May 546	8:45:12	9: 0:12	12:41:30	16:22:48	16:37:47	-232.3	84.51	85.41	160.74	236.08	236.98	943.13	29.02	3
v 22. May 554	4:52: 1	--	6: 0: 3	--	7: 8: 5	933.6	356.17	--	339.95	--	323.74	943.31	29.02	5
23. Nov. 667	19:15:42	19:31:16	23:19: 2	3: 6:47	3:22:21	-99.2	115.45	115.83	199.73	283.63	284.01	975.18	31.90	4
24. May 789	12:16:13	12:31:36	16: 7: 8	19:42:40	19:58: 3	-307.6	90.01	91.23	161.63	232.03	233.25	943.34	29.03	3
22. May 797	7:23:51	8: 1:13	9:14:15	10:27:18	11: 4:40	866.6	7.79	359.43	340.83	322.22	313.86	943.55	29.04	5
23. Nov. 910	18: 1:45	18:17:35	22: 0:47	1:43:58	1:59:49	-207.9	120.93	121.74	198.94	276.15	276.96	974.92	31.89	4
24. May 1032	15:43:33	15:59:22	19:28: 4	22:56:47	23:12:35	-373.4	95.06	96.58	162.54	228.50	230.03	943.61	29.05	3
22. May 1040	10:26:42	10:53:29	12:48: 1	14:42:32	15: 9:20	791.8	17.20	11.74	341.71	311.69	306.22	943.82	29.05	5
23. Nov. 1153	17: 3:26	17:19:46	20:56:13	0:32:41	0:49: 0	-307.6	126.02	127.27	198.16	269.06	270.30	974.64	31.87	4
25. May 1275	19:12:50	19:29:19	22:49:18	2: 9:16	2:25:46	-444.9	100.62	102.51	163.46	224.41	226.31	943.81	29.05	3
23. May 1283	13:16:39	13:39:47	15:56:29	18:13:13	18:36:21	733.6	23.65	19.28	342.62	305.95	301.58	944.06	29.06	5
23. Nov. 1396	15:50:33	16: 7:45	19:32:14	22:56:44	23:13:56	-424.3	132.36	134.17	197.36	260.54	262.35	974.30	31.85	4
26. May 1518	22:32: 2	22:49:14	1:59:45	5:10:16	5:27:28	-505.3	105.63	107.87	164.40	220.93	223.18	944.14	29.08	3
23. May 1526	16:17:38	16:38: 9	19:14:43	21:51:18	22:11:49	666.7	30.28	26.76	343.55	300.34	296.82	944.41	29.09	5
----- (Greg. cal.) -----														
v 7. Dec. 1631	3:53:17	5: 2:16	5:20:49	5:39:22	6:48:20	939.3	36.55	20.19	15.53	10.87	354.51	974.28	31.84	6
4. Dec. 1639	14:58: 4	15:16:26	18:26:47	21:37: 8	21:55:29	-523.6	137.96	140.34	196.53	252.72	255.11	974.02	31.83	4
6. June 1761	2: 2:20	2:20:35	5:19:30	8:18:25	8:36:40	-570.4	111.17	113.85	165.35	216.85	219.54	944.38	29.09	3

3. June 1769	19:15:49	19:34:52	22:25:36	1:16:20	1:35:23	609.3	35.68	32.69	344.47	296.24	293.26	944.64	29.10	5
9. Dec. 1874	1:49:12	2:18:56	4: 7:22	5:55:49	6:25:33	829.9 /	49.13	42.97	14.70	346.42	340.27	973.91	31.82	6
6. Dec. 1882	13:56:41	14:17:10	17: 5:54	19:54:38	20:15: 7	-637.3 /	145.11	148.35	195.72	243.08	246.33	973.59	31.80	4
8. June 2004	5:14:47	5:34:13	8:20:49	11: 7:24	11:26:51	-626.9	116.33	119.47	166.31	213.15	216.29	944.71	29.11	3
6. June 2012	22:10:56	22:28:53	1:30:43	4:32:33	4:50:30	554.4	40.69	38.13	345.43	292.73	290.17	945.03	29.13	5
11. Dec. 2017	0: 2:31	0:25:39	2:52: 8	5:18:38	5:41:46	723.6 /	57.86	53.68	13.84	334.00	329.82	973.59	31.80	6
8. Dec. 2125	13:19:29	13:43:10	16: 5:49	18:28:28	18:52: 8	-736.4 /	152.01	156.35	194.85	233.36	237.70	973.31	31.78	4
11. June 2247	8:51:10	9:12:31	11:42:27	14:12:24	14:33:45	-691.3	122.44	126.24	167.28	208.32	212.12	945.01	29.13	3
9. June 2255	1:17:39	1:34:41	4:47:36	8: 0:31	8:17:33	491.9	46.00	43.85	346.38	288.90	286.75	945.29	29.15	5
13. Dec. 2360	22:47:17	23: 7:30	1:58:44	4:49:57	5:10:10	625.7 /	64.54	61.39	12.99	324.59	321.43	973.20	31.76	6
10. Dec. 2368	12:44:56	13:15:24	15: 0:28	16:45:33	17:16: 0	-836.4 /	160.42	166.77	194.02	221.26	227.61	972.83	31.74	4
12. June 2490	12: 1:48	12:25:17	14:39:42	16:54: 7	17:17:36	-741.1	127.72	132.21	168.25	204.30	208.79	945.33	29.15	3
10. June 2498	4:12: 4	4:28:32	7:48:35	11: 8:38	11:25: 6	442.7	50.28	48.40	347.34	286.28	284.41	945.70	29.18	5
16. Dec. 2603	21:14:54	21:33: 8	0:44:29	3:55:49	4:14: 3	517.1 /	71.19	68.84	12.11	315.38	313.03	972.83	31.74	6
v 13. Dec. 2611	12:36:50	13:40:18	14: 6: 9	14:31:59	15:35:27	-934.8 /	171.73	186.66	193.14	199.61	214.54	972.52	31.72	4
15. June 2733	15:45: 8	16:13:18	18: 0:59	19:48:39	20:16:49	-808.3	135.21	141.09	169.24	197.40	203.27	945.71	29.18	3
13. June 2741	7:17: 8	7:33: 5	11: 0:24	14:27:43	14:43:40	385.6	54.97	53.39	348.32	283.25	281.67	946.02	29.20	5
17. Dec. 2846	20:24:29	20:41:44	0: 5:13	3:28:41	3:45:55	432.1 /	75.81	73.95	11.23	308.52	306.66	972.43	31.71	6
v 14. Dec. 2854	--	--	13:14:26	--	--	-1026.7 /	--	--	192.26	--	--	972.03	31.68	4
16. June 2976	18:54: 5	19:27:43	20:53: 7	22:18:32	22:52: 9	-850.5	140.87	148.25	170.21	192.17	199.54	946.02	29.21	3
14. June 2984	10:10:33	10:26: 9	13:58:46	17:31:23	17:46:59	336.3	59.06	57.72	349.29	280.86	279.52	946.41	29.23	5
-> 18. Dec. 3089	19: 1:49	19:18:10	22:53:36	2:29: 2	2:45:23	320.6 /	81.80	80.49	10.36	300.24	298.92	972.00	31.67	6
v 20. June 3219	22:31:18	23:28: 6	0: 0: 6	0:32: 6	1:28:55	-908.1	149.74	163.14	171.21	179.27	192.68	946.44	29.24	3
17. June 3227	13: 3:37	13:18:56	16:55:19	20:31:43	20:47: 2	293.4	62.72	61.56	350.27	278.98	277.83	946.79	29.26	5
20. Dec. 3332	18:14:30	18:30:23	22:12: 4	1:53:44	2: 9:38	235.5 /	85.96	85.02	9.46	293.91	292.97	971.61	31.64	6
v 22. June 3462	1:48:43	--	2:46:31	--	3:44:19	-948.1	158.40	--	172.16	--	185.93	946.78	29.27	3
19. June 3470	15:51:28	16: 6:35	19:46:41	23:26:48	23:41:55	247.9	66.46	65.51	351.24	276.98	276.02	947.17	29.29	5
23. Dec. 3575	17: 7:58	17:23:32	21:10:32	0:57:31	1:13: 5	131.5 /	91.13	90.62	8.60	286.58	286.07	971.11	31.59	6
v 24. June 3705	--	--	5:35:18	--	--	-989.3	--	--	173.15	--	--	947.20	29.30	3
21. June 3713	18:30:27	18:45:25	22:27:21	2: 9:18	2:24:17	215.2	69.42	68.60	352.21	275.83	275.00	947.61	29.33	5
c 25. Dec. 3818	16:23: 6	16:38:31	20:27:15	0:15:58	0:31:22	41.1 /	95.42	95.26	7.70	280.13	279.97	970.72	31.56	6
24. June 3956	21:17:37	21:32:30	1:16:53	5: 1:17	5:16:10	175.2	72.78	72.12	353.18	274.24	273.57	947.99	29.36	5
c 26. Dec. 4061	15:44:40	16: 0: 5	19:49: 5	23:38: 4	23:53:28	-44.7 /	99.45	99.62	186.82	274.02	274.19	970.19	31.51	6
26. June 4199	23:51:40	0: 6:26	3:51:59	7:37:32	7:52:19	143.5	75.63	75.09	354.14	273.18	272.64	948.45	29.40	5
29. Dec. 4304	15:12:40	15:28:10	19:14:54	23: 1:37	23:17: 7	-131.3 /	103.54	104.04	185.93	267.82	268.32	969.77	31.47	6
28. June 4442	2:39:38	2:54:22	6:41:17	10:28:14	10:42:57	106.7	78.76	78.36	355.08	271.81	271.41	948.87	29.44	5
31. Dec. 4547	14:53:45	15: 9:28	18:52:57	22:36:25	22:52: 8	-207.8 /	107.10	107.91	185.05	262.18	262.99	969.24	31.42	6
30. June 4685	5: 3:37	5:18:19	9: 5:48	12:53:19	13: 8: 1	84.4	81.01	80.70	356.02	271.35	271.04	949.30	29.48	5
2. Jan. 4791	14:33:22	14:49:25	18:27:33	22: 5:41	22:21:44	-286.0 /	110.86	112.00	184.17	256.34	257.49	968.77	31.37	6
c 2. July 4928	7:41:58	7:56:39	11:44:39	15:32:40	15:47:21	51.5	83.87	83.68	356.95	270.22	270.03	949.79	29.52	5
4. Jan. 5034	14:20:15	14:36:47	18: 7:41	21:38:34	21:55: 6	-365.4 /	114.80	116.31	183.30	250.29	251.80	968.28	31.33	6
c 5. July 5171	9:51: 6	10: 5:48	13:54: 6	17:42:25	17:57: 7	43.2	85.25	85.09	357.85	270.60	270.44	950.20	29.56	5
v 8. Jan. 5269	3:16:36	--	3:59:39	--	4:42:42	984.0 /	11.67	--	1.51	--	351.36	968.28	31.32	7
5. Jan. 5277	14:12: 8	14:29:17	17:52: 7	21:14:57	21:32: 6	-435.8 /	118.37	120.24	182.44	244.65	246.52	967.74	31.27	6

C 7.	July	5414	12:15:36	12:30:17	16:18:32	20: 6:49	20:21:30	18.6	87.60	87.53	358.75	269.97	269.90	950.73	29.61	5
12.	Jan.	5512	2: 0:47	2:45:39	3:43:47	4:41:54	5:26:46	905.8 /	25.65	15.39	0.67	345.94	335.69	967.80	31.27	7
9.	Jan.	5520	14: 6:33	14:24:34	17:36: 9	20:47:44	21: 5:44	-512.2 /	122.51	124.82	181.59	238.37	240.68	967.30	31.23	6
C 8.	July	5657	14:15:18	14:30: 0	18:18:35	22: 7:10	22:21:53	16.3	88.58	88.53	359.60	270.67	270.62	951.14	29.65	5
13.	Jan.	5755	1:24:20	1:55:16	3:36:49	5:18:23	5:49:18	839.1 /	32.72	26.20	359.86	333.52	327.00	967.28	31.22	7
10.	Jan.	5763	14:15:38	14:34:41	17:35: 5	20:35:29	20:54:31	-577.0 /	126.13	128.88	180.75	232.63	235.38	966.70	31.17	6
C 11.	July	5900	16:29:29	16:44:11	20:32:31	0:20:52	0:35:35	3.2	90.22	90.21	0.47	270.73	270.72	951.67	29.70	5
15.	Jan.	5998	0:51:28	1:16:28	3:28:20	5:40:12	6: 5:11	764.8 /	39.07	34.26	359.05	323.85	319.04	966.77	31.17	7
12.	Jan.	6006	14:27: 8	14:47:30	17:34:16	20:21: 1	20:41:23	-640.4 /	129.92	133.19	179.92	226.66	229.93	966.27	31.13	6
C 13.	July	6143	18:31:10	18:45:54	22:34:29	2:23: 5	2:37:49	-3.7	91.44	91.46	181.29	271.12	271.13	952.12	29.74	5
17.	Jan.	6241	0:55:39	1:18:11	3:46:56	6:15:41	6:38:13	711.0 /	42.84	38.81	358.26	317.71	313.68	966.27	31.12	7
14.	Jan.	6249	14:54:43	15:16:46	17:49:16	20:21:45	20:43:48	-697.5 /	133.57	137.42	179.12	220.81	224.67	965.67	31.07	6
C 16.	July	6386	20:32: 6	20:46:51	0:35:18	4:23:47	4:38:32	-5.1	92.34	92.36	182.10	271.84	271.86	952.62	29.79	5
19.	Jan.	6484	0:39:40	1: 0: 8	3:45:53	6:31:39	6:52: 6	644.8 /	47.23	43.92	357.49	311.07	307.75	965.73	31.06	7
16.	Jan.	6492	15:24: 6	15:48:25	18: 4: 6	20:19:47	20:44: 6	-752.3 /	137.39	141.98	178.31	214.64	219.23	965.23	31.02	6
C 18.	July	6629	22:26:42	22:41:28	2:29:57	6:18:27	6:33:13	-5.5	93.15	93.17	182.89	272.60	272.63	953.12	29.84	5
22.	Jan.	6727	1: 0:17	1:19:35	4:16: 5	7:12:34	7:31:52	594.6 /	50.14	47.25	356.73	306.21	303.32	965.26	31.02	7
19.	Jan.	6735	16: 4:46	16:32: 5	18:29:59	20:27:53	20:55:11	-800.4 /	141.08	146.57	177.54	208.51	214.00	964.66	30.96	6
C 19.	July	6872	0: 9:10	0:23:57	4:12:34	8: 1:13	8:16: 1	2.0	93.46	93.46	3.63	273.81	273.81	953.57	29.88	5
23.	Jan.	6970	0:55:37	1:13:50	4:21:55	7:29:58	7:48:12	532.9 /	53.70	51.25	356.00	300.76	298.31	964.68	30.96	7
20.	Jan.	6978	16:43:38	17:17: 9	18:47:24	20:17:40	20:51:10	-857.7 /	146.33	153.58	176.78	199.98	207.22	964.18	30.91	6

=====
 Computed constellations: 44651 ("/" means ascending node)
 Tested planet. passages: 6255
 Detected transits : 126
 Centr./grazing transits: 14 / 11
 CPU-time 0: 0: 2.648 -- end of run.
 =====

3. Vierer-Konjunktionen 13 000 BC - 17 000 AD

Option 14: P4-Programmausgabe für alle Vierer-Konjunktionen, in denen die ekliptikalen Längen von Merkur, Venus, Erde und Mars gleichzeitig innerhalb eines Winkelintervalls von 5° liegen. Einige Bezeichnungen im Tabellenkopf seien erklärt. Es kennzeichnet „co“ die Spalte mit Nummern signifikanter Konstellationen. Im Buch „Pyramiden und Planeten“ werden insgesamt 14 spezielle Konstellationen detailliert beschrieben. In der Spalte „tr“ bedeuten „M“ und „V“ simultaner Transit von Merkur bzw. Venus und „k“ steht für die Nummer des Apheldurchgangs von Merkur. Diese Apheldurchgänge sind fortlaufend nummeriert, wobei der erste Apheldurchgang Merkurs nach Beginn des Jahres 2000 die Nummer $k = 0$ hat. Es ist „dt“ der Zeitabstand zum nächsten Aphelzeitpunkt von Merkur. Lm, Lv, Le und Lma sind die ekliptikalen Längen von Merkur, Venus, Erde und Mars. Das kleinste Winkelintervall, in welchem sich alle vier Planeten während der Konjunktion befinden, ist „dLmin“. Für weitere Details siehe „Planetary Correlation of the Giza Pyramids – P4 Program Description“.

P4 output:

PLANETS IN A LINE (SYZYG)
(angular range of eclipt. longitudes dL minimized, JDE)
< P4-option 14 >

VSOP87C, comb. search, ecliptic of date, linear c. Mercury to Mars
Period (years) -13000.00 to 17000.00 (c1), angular r.: 6.00/ 5.00 deg

co	tr	k	JDE	year	dt[days]	Lm-Lv	Lm-Le	Lm-Lma	dLmin
		-62144	-3015259.12387	-12967.601	-38.133	1.757	0.0	0.105	1.757
		-61116	-2924752.04882	-12719.801	36.451	-2.558	-3.025	0.0	3.025
		-56018	-2476304.86414	-11491.995	15.891	-1.871	-3.100	0.0	3.100
		-55699	-2448270.17542	-11415.238	-11.643	2.577	3.490	0.0	3.490
		-54830	-2371781.88140	-11205.820	31.286	1.469	0.0	0.900	1.469
		-51975	-2120688.28715	-10518.350	-27.612	-1.048	-0.384	0.0	1.048
M		-50946	-2030182.60335	-10270.553	-42.389	-0.500	-0.988	0.0	0.988
		-48544	-1818813.77667	-9691.845	24.059	4.074	0.0	1.955	4.074
		-48225	-1790778.08803	-9615.086	-2.474	3.782	3.234	0.0	3.782
		-44501	-1463199.29860	-8718.206	-21.543	2.831	-0.189	2.831	3.019
V		-40777	-1135613.28929	-7821.306	-33.392	-2.288	-2.121	0.0	2.288
		-39749	-1045106.26361	-7573.506	41.143	-4.656	-3.657	0.0	4.656
		-33463	-492135.45751	-6059.523	36.617	-0.732	-0.497	0.0	0.732
		-29579	-150537.15060	-5124.259	-38.030	-3.780	-2.775	0.0	3.780
		-28046	-15654.33423	-4754.962	-12.227	4.108	3.948	0.0	4.108
		-27177	60834.13961	-4545.544	30.882	1.499	0.0	0.676	1.499
		-24322	311928.64773	-3858.071	-27.103	2.726	3.541	0.0	3.541
		-23293	402434.40305	-3610.274	-41.808	3.463	3.984	0.0	3.984
		-20891	613802.18908	-3031.569	23.600	4.661	0.0	3.870	4.661
		-20572	641837.19908	-2954.812	-3.613	4.509	2.495	0.0	4.509
		-19384	746366.77815	-2668.619	18.379	0.226	4.109	0.0	4.109
		-16848	969416.60704	-2057.930	-22.063	4.094	0.469	0.0	4.094
		-13124	1297003.80471	-1161.026	-32.723	2.174	3.048	0.0	3.048

M	-12096	1387510.46824	-913.228	41.449	-2.172	-0.337	0.0	2.172
	-5810	1940480.90518	600.754	36.554	0.079	0.707	0.0	0.707
	-5650	1954490.74930	639.112	-28.698	4.457	0.0	0.403	4.457
	-4621	2044997.03231	886.909	-42.875	4.093	0.0	1.425	4.093
	-2955	2191576.37670	1288.230	-20.467	-4.154	0.0	-0.771	4.154
	-1926	2282079.86037	1536.020	-37.445	0.453	2.400	0.0	2.400
	476	2493450.15754	2114.732	30.475	1.507	-0.232	1.507	1.739
	795	2521489.41998	2191.501	7.515	-3.907	0.0	-1.484	3.907
12 M	4519	2849066.01327	3088.376	-13.750	-3.397	-2.605	0.0	3.397
	5548	2939566.30702	3336.157	-33.917	3.882	0.0	0.569	3.882
	8243	3176650.26922	3985.271	-27.352	-3.312	0.0	-0.379	3.312
	8269	3178981.57686	3991.654	16.752	-0.800	1.467	-0.800	2.267
	9272	3267156.02956	4233.067	-42.053	-3.820	-0.574	0.0	3.820
	15557	3820126.65275	5747.049	41.208	-2.124	0.0	-1.952	2.124
	15717	3834138.13217	5785.411	-22.408	-2.064	-3.418	0.0	3.419
	15743	3836472.36564	5791.802	24.622	4.659	4.389	0.0	4.659
	16746	3924642.67733	6033.204	-38.324	2.520	0.0	2.339	2.520
	19441	4161725.56802	6682.315	-32.830	-3.781	0.0	-0.412	3.781
	20974	4296612.30826	7051.623	-3.103	-4.188	0.0	-3.368	4.188
M	21843	4373097.00488	7261.031	36.229	-0.135	0.380	-0.135	0.515
	24698	4624193.65495	7948.510	-19.615	-0.632	4.214	-0.632	4.846
	26915	4819212.51626	8482.453	-28.801	-1.437	-3.049	0.0	3.049
	28129	4926065.39990	8775.007	29.292	-0.821	-3.563	0.0	3.563
	28448	4954105.08050	8851.777	6.750	-2.902	0.0	-1.249	2.902
	32172	5281682.80510	9748.654	-13.384	-0.969	0.0	-0.897	0.969
	35922	5611596.79305	10651.928	15.543	-0.971	0.043	-0.971	1.013
	36925	5699772.17611	10893.344	-42.331	-3.639	0.0	-2.630	3.639
	38113	5804287.97146	11179.498	-34.123	-2.641	-3.546	0.0	3.546
	39646	5939173.53429	11548.803	-5.573	-1.199	-3.007	0.0	3.007
	43210	6252743.27610	12407.327	41.406	0.134	2.572	0.0	2.572
M	43370	6266755.55351	12445.692	-21.412	1.706	1.352	0.0	1.706
	43396	6269087.74498	12452.077	23.576	3.799	2.388	0.0	3.799
	44399	6357258.98958	12693.482	-38.437	3.641	1.774	0.0	3.641
	49496	6805712.91680	13921.307	35.715	-0.904	-0.924	0.0	0.924
	50844	6924245.65229	14245.838	-14.233	3.579	-0.162	3.579	3.742
	54568	7251829.78723	15142.733	-27.956	2.517	2.077	0.0	2.517
	56101	7386721.26013	15512.054	6.504	-1.307	1.289	-1.307	2.596

=====
 Computed constellations: 150628

Number of syzygies : 60

CPU-time 0: 0: 7.524 -- end of run.

4. Planetenkonstellation gemäß der Kammeranordnung in der Großen Pyramide von Gizeh im Jahre 3088 AD

Option 381: Tabelle der transformierten Planetenpositionen innerhalb der Cheops-Pyramide für die astronomischen Ereignisse im Jahre 3088. Der Moment des minimalen Winkelintervalls, in welchem sich die ekliptikalen Längen der vier Planeten Merkur, Venus, Erde und Mars im Laufe der Konjunktion befinden, ist mit „date of sysygy“ gekennzeichnet. Dieser Moment ist nicht mit der Mitte des Merkurtransits identisch, sondern beide Zeitpunkte liegen etwa einen Tag auseinander. Die rechts angegebenen geographischen Koordinaten sind zwar korrekt aber kaum von Bedeutung, weil die Positionen nur wenige Meter auseinander liegen und da es innerhalb der Cheops-Pyramide keinen GPS-Empfang gibt (gilt nur für die Optionen 380 – 382). Für weitere Details siehe: „Planetary Correlation of the Giza Pyramids – P4 Program Description“. Hinweis: In der aktuellen P4-Programmversion vom Juni 2015 („2nd edition“) muss anstelle der Schnellstart-Option 381 die Option 380 eingegeben werden.

(Siehe nächste Seite.)

P4 output:

PLANETS IN ALIGNMENT WITH THE CHAMBERS OF THE CHEOPS PYRAMID
 (more positions - coordinate system of chambers)
 < P4-option 381 >

VSOP87A (2005) full ver., standard J2000.0, E-V-M, "Sun" free 3D mid., FITEX
 Ecl. N and S, constellation 12, JDE = 2849035.77863, year = 3088.29 (c2)
 date (Gregor.,TT) = 17. Apr. 3088, 6:41:13, Tuesday

con	k	year	X5	M/10 ⁹	h-Sun	x-Sun	y-Sun	z-Sun	dr	P	F[%]
12	4518	3088.293	-4.23	2.317	33.99	-21.78	-17.38	-8.76	0.20		0.570

Celestial positions in Giza

body	x[m]	y[m]	z[m]	dr[m]	latitude N	longitue E
date of chambers: JDE = 2849035.77863						
Sun	-21.78	-17.38	-8.76	0.20	29 58.7402	31 8.0511
Mercury	-5.38	-28.43	-7.01	0.24	29 58.7491	31 8.0522
Venus	-0.20	23.38	-2.95	0.09	29 58.7519	31 8.0547
Earth	-10.93	46.09	-5.20	0.19	29 58.7461	31 8.0533
Mars	-27.45	86.83	-3.25	0.44	29 58.7371	31 8.0545
date of syzygy: JDE = 2849066.01327						
Mercury	-30.26	9.76	-7.60	0.14	29 58.7356	31 8.0518
Venus	-38.34	26.23	-6.36	0.20	29 58.7312	31 8.0526
Earth	-43.90	43.73	-7.17	0.28	29 58.7282	31 8.0521
Mars	-52.25	80.42	-5.78	0.46	29 58.7237	31 8.0530
date of transit: JDE = 2849067.30624						
Mercury	-32.19	9.41	-7.96	0.16	29 58.7346	31 8.0516
Venus	-39.91	25.62	-6.57	0.21	29 58.7304	31 8.0525
Earth	-45.24	43.26	-7.27	0.28	29 58.7275	31 8.0520
Mars	-53.28	80.00	-5.89	0.47	29 58.7232	31 8.0529
date of pyramids: JDE = 2849079.76330						
Mercury	-46.68	-0.62	-11.41	0.25	29 58.7267	31 8.0495
Venus	-53.47	17.08	-8.65	0.27	29 58.7231	31 8.0512
Earth	-57.48	37.20	-8.24	0.33	29 58.7209	31 8.0514
Mars	-62.95	75.32	-7.00	0.48	29 58.7179	31 8.0522

CPU-time 0: 0: 0.076 -- end of run.

5. Planetenkonstellation gemäß der Pyramidenanordnung in Gizeh im Jahre 3088 AD

Option 384: Tabelle der transformierten Planetenpositionen auf dem Gizeh-Plateau für die astronomischen Ereignisse im Jahre 3088. Die Programmausgabe ist analog zur Option 381. In diesem Fall sind die geographischen Koordinaten jedoch sinnvoll. Für weitere Details siehe: „Planetary Correlation of the Giza Pyramids – P4 Program Description“. Hinweis: In der aktuellen P4-Programmversion vom Juni 2015 muss anstelle der Schnellstart-Option 384 die Option 381 eingegeben werden.

(Siehe nächste Seite.)

P4 output:

PLANETS IN ALIGNMENT WITH THE PYRAMIDS OF GIZA
 (more positions - coordinate system of pyramids)
 < P4-option 384 >

VSOP87A (2005) full ver., standard J2000.0, "Sun" free 3D, C-M, FITEX
 Ecl. N and S, constellation 12, JDE = 2849079.76330, year = 3088.41 (c2)
 date (Gregor.,TT) = 31. May 3088, 6:19: 9, Thursday

con	k	year	X5	M/10 ⁷	h-Sun	x-Sun	y-Sun	z-Sun	dr	P	F[%]
12	4519	3088.413	24.58	9.764	20.98	-667.5	21.3	272.4	0.8		0.069

Celestial positions in Giza

body	x[m]	y[m]	z[m]	dr[m]	latitude N	longitude E
date of chambers: JDE = 2849035.77863						
Sun	-667.49	21.30	272.36	0.77	29 57.9905	31 7.6813
Mercury	-1107.01	35.38	441.03	1.09	29 57.7526	31 7.6726
Venus	-459.18	-1006.75	613.80	0.87	29 58.1033	31 8.3204
Earth	35.24	-1320.33	490.56	0.83	29 58.3709	31 8.5154
Mars	910.94	-1885.15	425.24	1.21	29 58.8449	31 8.8666
date of syzygy: JDE = 2849066.01327						
Mercury	-130.71	-387.90	246.95	0.39	29 58.2810	31 7.9357
Venus	251.70	-595.71	218.68	0.28	29 58.4880	31 8.0649
Earth	589.42	-867.01	167.06	0.45	29 58.6708	31 8.2336
Mars	1257.17	-1460.49	155.25	1.03	29 59.0323	31 8.6026
date of transit: JDE = 2849067.30624						
Mercury	-102.82	-358.64	222.36	0.36	29 58.2961	31 7.9175
Venus	270.45	-565.35	200.49	0.25	29 58.4982	31 8.0461
Earth	606.56	-841.32	153.23	0.44	29 58.6801	31 8.2176
Mars	1269.28	-1439.92	143.75	1.02	29 59.0388	31 8.5898
date of pyramids: JDE = 2849079.76330						
Mercury	-0.12	-0.09	16.24	0.32	29 58.3517	31 7.6946
Venus	385.58	-239.89	33.43	0.11	29 58.5605	31 7.8437
Earth	739.06	-574.51	23.93	0.33	29 58.7518	31 8.0518
Mars	1373.30	-1232.84	34.00	0.96	29 59.0951	31 8.4611

CPU-time 0: 0: 0.076 -- end of run.