Attention, astronomical year style is used: The year -900 in astronomical counting style is the year 901 BCE in historical counting style.

retrograde	-900 Feb 06 j 00:28	12°♎44'59	
opposition	-900 Apr 06 j 20:01	7°♎53'24	1°36'49
min. Earth dist.	-900 Apr 08 j 06:39	7°♎42'22	4.36119 AU
direct	-900 Jun 08 j 09:37	2°♎53'24	
evening set	-900 Oct 12 j 09:08	20°♎50'53	
max. Earth dist.	-900 Oct 23 j 01:13	23°♎14'42	6.30930 AU
conjunction	-900 Oct 24 j 23:45	23°♎40'56	0°54'44
minimum elong	-900 Oct 24 j 23:47	23°♎40'58	0°54'43
morning rise	-900 Nov 06 j 12:59	26°♎30'34	
	-900 Nov 22 j 07:36	0°♏	
retrograde	-899 Mar 10 j 03:04	14°♏22'05	
opposition	-899 May 10 j 02:58	9°♏29'35	0°57'16
min. Earth dist.	-899 May 11 j 09:29	9°♏19'52	4.24940 AU
direct	-899 Jul 10 j 18:52	4°♏32'21	
	-899 Oct 07 j 22:23	15°♏	
evening set	-899 Nov 13 j 02:59	22°♏56'04	
max. Earth dist.	-899 Nov 24 j 07:39	25°♏31'23	6.18498 AU
conjunction	-899 Nov 25 j 18:31	25°♏51'37	0°19'34
minimum elong	-899 Nov 25 j 18:32	25°♏51'38	0°19'33
morning rise	-899 Dec 08 j 10:23	28°♏47'36	
	-899 Dec 13 j 16:26	0°♐	
retrograde	-898 Apr 14 j 11:04	17°♐39'05	
desc. node	-898 May 27 j 01:26	14°♐59'31	
opposition	-898 Jun 14 j 06:59	12°♐44'05	-0°02'58
min. Earth dist.	-898 Jun 15 j 00:37	12°♐38'24	4.12058 AU
direct	-898 Aug 13 j 16:21	7°♐49'23	
evening set	-898 Dec 16 j 11:45	26°♐44'52	
conjunction	-898 Dec 29 j 07:25	29°♐47'22	-0°23'31
minimum elong	-898 Dec 29 j 07:24	29°♐47'21	0°23'33
max. Earth dist.	-898 Dec 28 j 20:25	29°♐40'50	6.06350 AU
	-898 Dec 30 j 04:41	0°♑	
morning rise	-897 Jan 11 j 04:57	2°♑51'03	
retrograde	-897 May 21 j 12:36	22°♑43'25	
opposition	-897 Jul 21 j 01:14	17°♑44'45	-1°05'34
min. Earth dist.	-897 Jul 20 j 21:47	17°♑45'53	4.01757 AU
direct	-897 Sep 18 j 00:39	12°♑51'29	
	-896 Jan 11 j 10:28	0°♒	
evening set	-896 Jan 20 j 19:43	2°♒13'44	
conjunction	-896 Feb 02 j 21:39	5°♒22'18	-0°59'29
minimum elong	-896 Feb 02 j 21:36	5°♒22'17	0°59'30
max. Earth dist.	-896 Feb 03 j 16:10	5°♒33'27	5.98798 AU
morning rise	-896 Feb 16 j 02:44	8°♒32'36	
	-896 Mar 14 j 22:11	15°♒	
retrograde	-896 Jun 27 j 09:00	29°♒01'41	
opposition	-896 Aug 26 j 10:30	23°♒59'03	-1°45'06
min. Earth dist.	-896 Aug 25 j 12:01	24°♒06'36	3.97888 AU
direct	-896 Oct 23 j 12:30	19°♒05'03	
	-895 Jan 18 j 21:35	0°♓	
evening set	-895 Feb 25 j 16:40	8°♓36'46	
conjunction	-895 Mar 11 j 02:31	11°♓48'46	-1°13'11
minimum elong	-895 Mar 11 j 02:32	11°♓48'46	1°13'11
max. Earth dist.	-895 Mar 12 j 23:15	12°♓15'29	5.98865 AU
morning rise	-895 Mar 24 j 15:21	15°♓02'19	
	-895 Jun 04 j 02:53	0°♈	
retrograde	-895 Aug 03 j 10:31	5°♈23'11	
min. Earth dist.	-895 Sep 30 j 18:41	0°♈29'01	4.01997 AU
opposition	-895 Oct 02 j 02:32	0°♈18'10	-1°43'33
	-895 Oct 04 j 07:56	30°℞♓	
direct	-895 Nov 29 j 02:26	25°♓21'40	
	-894 Jan 22 j 12:31	0°♈	
evening set	-894 Apr 03 j 23:41	14°♈40'04	
conjunction	-894 Apr 17 j 16:01	17°♈51'32	-0°58'46
minimum elong	-894 Apr 17 j 16:04	17°♈51'34	0°58'46
max. Earth dist.	-894 Apr 19 j 19:25	18°♈21'32	6.06544 AU
morning rise	-894 May 01 j 10:30	21°♈03'50	
	-894 Jun 11 j 00:16	0°♉	
retrograde	-894 Sep 07 j 12:13	10°♉35'32	
min. Earth dist.	-894 Nov 04 j 18:55	5°♉41'14	4.12366 AU
opposition	-894 Nov 06 j 01:22	5°♉30'51	-1°03'34
direct	-893 Jan 03 j 19:16	0°♉31'12	
	-893 Apr 20 j 20:09	15°♉	
evening set	-893 May 10 j 10:09	19°♉20'37	
conjunction	-893 May 24 j 04:44	22°♉27'40	-0°23'39
minimum elong	-893 May 24 j 04:46	22°♉27'41	0°23'39
max. Earth dist.	-893 May 25 j 20:26	22°♉50'10	6.18760 AU
morning rise	-893 Jun 06 j 23:14	25°♉34'26	
	-893 Jun 27 j 00:48	0°♊	
retrograde	-893 Oct 10 j 12:47	14°♊01'17	
min. Earth dist.	-893 Dec 08 j 08:18	9°♊05'27	4.25132 AU
opposition	-893 Dec 09 j 02:06	8°♊59'26	-0°04'14
asc. node	-892 Jan 05 j 11:55	5°♊38'10	
direct	-892 Feb 07 j 02:51	3°♊57'20	
evening set	-892 Jun 13 j 05:40	22°♊15'04	
conjunction	-892 Jun 26 j 20:28	25°♊15'16	0°17'54
minimum elong	-892 Jun 26 j 20:27	25°♊15'15	0°17'55
max. Earth dist.	-892 Jun 27 j 11:54	25°♊23'47	6.31114 AU
morning rise	-892 Jul 10 j 09:23	28°♊14'20	
	-892 Jul 18 j 11:18	0°♋	
retrograde	-892 Nov 09 j 18:56	15°♋45'40	
opposition	-891 Jan 08 j 15:12	10°♋47'41	0°53'12
min. Earth dist.	-891 Jan 08 j 13:21	10°♋48'18	4.36094 AU
direct	-891 Mar 10 j 22:25	5°♋44'24	
evening set	-891 Jul 16 j 06:43	23°♋37'58	
conjunction	-891 Jul 29 j 13:44	26°♋31'21	0°52'39
minimum elong	-891 Jul 29 j 13:42	26°♋31'19	0°52'40
max. Earth dist.	-891 Jul 29 j 02:35	26°♋25'16	6.39848 AU
morning rise	-891 Aug 11 j 17:45	29°♋23'11	
	-891 Aug 14 j 13:56	0°♌	
	-891 Nov 10 j 16:50	15°♌	
retrograde	-891 Dec 10 j 07:06	16°♌21'45	
	-890 Jan 08 j 20:03	15°℞♌	
opposition	-890 Feb 08 j 11:23	11°♌27'19	1°33'30
min. Earth dist.	-890 Feb 09 j 02:52	11°♌22'17	4.42137 AU
direct	-890 Apr 11 j 18:42	6°♌24'13	
	-890 Jul 03 j 00:38	15°♌	
evening set	-890 Aug 16 j 21:59	24°♌06'04	
max. Earth dist.	-890 Aug 28 j 10:45	26°♌36'25	6.42647 AU
conjunction	-890 Aug 29 j 20:38	26°♌54'54	1°11'58
minimum elong	-890 Aug 29 j 20:37	26°♌54'53	1°11'58
morning rise	-890 Sep 11 j 16:23	29°♌42'17	
	-890 Sep 13 j 01:07	0°♍	
retrograde	-889 Jan 09 j 21:38	16°♍34'57	
opposition	-889 Mar 11 j 10:51	11°♍42'42	1°47'57
min. Earth dist.	-889 Mar 12 j 15:26	11°♍33'33	4.41667 AU
direct	-889 May 13 j 04:10	6°♍40'50	
evening set	-889 Sep 16 j 19:13	24°♍25'13	
max. Earth dist.	-889 Sep 27 j 15:14	26°♍48'18	6.38854 AU
conjunction	-889 Sep 29 j 12:02	27°♍13'03	1°11'27
minimum elong	-889 Sep 29 j 12:03	27°♍13'04	1°11'27

Attention, astronomical year style is used: The year -889 in astronomical counting style is the year 890 BCE in historical counting style.

morning rise	-889 Oct 12 j 02:20	29°♍59'51	
	-889 Oct 12 j 02:36	0°♎	
retrograde	-888 Feb 10 j 12:14	17°♎13'25	
opposition	-888 Apr 11 j 09:22	12°♎21'46	1°32'51
min. Earth dist.	-888 Apr 12 j 19:12	12°♎11'01	4.34799 AU
direct	-888 Jun 12 j 19:57	7°♎22'10	
evening set	-888 Oct 16 j 18:13	25°♎22'29	
max. Earth dist.	-888 Oct 27 j 10:47	27°♎47'09	6.29421 AU
conjunction	-888 Oct 29 j 08:36	28°♎13'05	0°50'39
minimum elong	-888 Oct 29 j 08:38	28°♎13'06	0°50'38
	-888 Nov 06 j 05:35	0°♏	
morning rise	-888 Nov 10 j 22:04	1°♏03'24	
	-887 Jan 21 j 07:42	15°♏	
retrograde	-887 Mar 14 j 23:16	19°♏01'58	
	-887 May 08 j 06:00	15℞♏	
opposition	-887 May 14 j 22:15	14°♏09'09	0°49'44
min. Earth dist.	-887 May 16 j 04:00	13°♏59'39	4.23309 AU
direct	-887 Jul 15 j 11:30	9°♏12'13	
	-887 Sep 17 j 08:13	15°♏	
evening set	-887 Nov 17 j 15:59	27°♏39'28	
	-887 Nov 27 j 18:21	0°♐	
max. Earth dist.	-887 Nov 29 j 00:13	0°♐17'23	6.16887 AU
conjunction	-887 Nov 30 j 08:00	0°♐35'52	0°13'44
minimum elong	-887 Nov 30 j 08:00	0°♐35'53	0°13'44
behind sun begin	-887 Nov 30 j 03:33	0°♐33'18	
behind sun end	-887 Nov 30 j 12:27	0°♐38'27	
morning rise	-887 Dec 13 j 00:24	3°♐32'46	
desc. node	-886 Apr 06 j 03:20	22°♐15'26	
retrograde	-886 Apr 19 j 10:56	22°♐32'08	
opposition	-886 Jun 19 j 07:21	17°♐36'40	-0°12'05
min. Earth dist.	-886 Jun 19 j 21:56	17°♐31'57	4.10589 AU
direct	-886 Aug 18 j 11:28	12°♐42'15	
	-886 Dec 14 j 02:28	0°♑	
evening set	-886 Dec 21 j 06:33	1°♑41'12	
conjunction	-885 Jan 03 j 02:49	4°♑44'29	-0°29'19
minimum elong	-885 Jan 03 j 02:47	4°♑44'28	0°29'19
max. Earth dist.	-885 Jan 02 j 19:06	4°♑39'54	6.05138 AU
morning rise	-885 Jan 16 j 01:18	7°♑49'06	
retrograde	-885 May 26 j 17:36	27°♑47'47	
opposition	-885 Jul 26 j 04:48	22°♑48'30	-1°12'57
min. Earth dist.	-885 Jul 25 j 22:45	22°♑50'30	4.00917 AU
direct	-885 Sep 23 j 01:18	17°♑55'12	
	-885 Dec 25 j 03:10	0°♒	
evening set	-884 Jan 25 j 19:45	7°♒19'28	
conjunction	-884 Feb 07 j 22:50	10°♒28'41	-1°02'57
minimum elong	-884 Feb 07 j 22:48	10°♒28'39	1°02'58
max. Earth dist.	-884 Feb 08 j 22:23	10°♒42'51	5.98407 AU
morning rise	-884 Feb 21 j 04:52	13°♒39'34	
	-884 Feb 26 j 20:08	15°♒	
	-884 May 10 j 21:14	0°♓	
retrograde	-884 Jul 02 j 13:59	4°♓10'06	
	-884 Aug 24 j 23:12	30℞♒	
opposition	-884 Aug 31 j 13:20	29°♒07'03	-1°47'29
min. Earth dist.	-884 Aug 30 j 13:31	29°♒15'04	3.98012 AU
direct	-884 Oct 28 j 13:34	24°♒12'48	
	-884 Dec 28 j 13:31	0°♓	
evening set	-883 Mar 02 j 19:59	13°♓43'58	
conjunction	-883 Mar 16 j 06:43	16°♓56'08	-1°12'48
minimum elong	-883 Mar 16 j 06:43	16°♓56'08	1°12'48
max. Earth dist.	-883 Mar 18 j 03:55	17°♓23'05	5.99461 AU
morning rise	-883 Mar 29 j 20:41	20°♓09'50	
	-883 May 12 j 20:08	0°♈	
retrograde	-883 Aug 08 j 08:38	10°♈26'13	
min. Earth dist.	-883 Oct 05 j 15:49	5°♈32'18	4.03003 AU
opposition	-883 Oct 07 j 00:41	5°♈21'05	-1°39'58
direct	-883 Dec 04 j 01:31	0°♈24'08	
evening set	-882 Apr 09 j 02:06	19°♈39'48	
conjunction	-882 Apr 22 j 19:12	22°♈50'59	-0°54'50
minimum elong	-882 Apr 22 j 19:15	22°♈51'01	0°54'49
max. Earth dist.	-882 Apr 24 j 21:52	23°♈20'28	6.07879 AU
morning rise	-882 May 06 j 13:59	26°♈02'49	
	-882 May 23 j 23:43	0°♉	
	-882 Aug 26 j 19:18	15°♉	
retrograde	-882 Sep 12 j 06:18	15°♉26'42	
	-882 Sep 28 j 12:44	15℞♉	
opposition	-882 Nov 10 j 17:54	10°♉22'18	-0°55'57
min. Earth dist.	-882 Nov 09 j 13:36	10°♉31'56	4.13859 AU
direct	-881 Jan 08 j 16:07	5°♉22'15	
	-881 Apr 02 j 13:27	15°♉	
evening set	-881 May 15 j 08:38	24°♉08'03	
conjunction	-881 May 29 j 03:07	27°♉14'24	-0°17'54
minimum elong	-881 May 29 j 03:09	27°♉14'25	0°17'53
max. Earth dist.	-881 May 30 j 16:30	27°♉35'31	6.20295 AU
	-881 Jun 10 j 08:59	0°♊	
morning rise	-881 Jun 11 j 21:15	0°♊20'20	
retrograde	-881 Oct 14 j 22:56	18°♊39'33	
asc. node	-881 Nov 15 j 09:38	17°♊03'58	
opposition	-881 Dec 13 j 13:36	13°♊38'13	0°04'21
min. Earth dist.	-881 Dec 12 j 20:55	13°♊43'50	4.26578 AU
direct	-880 Feb 11 j 17:15	8°♊35'55	
evening set	-880 Jun 17 j 23:12	26°♊50'41	
conjunction	-880 Jul 01 j 13:05	29°♊50'00	0°23'26
minimum elong	-880 Jul 01 j 13:04	29°♊49'59	0°23'27
max. Earth dist.	-880 Jul 02 j 00:34	29°♊56'19	6.32377 AU
	-880 Jul 02 j 07:15	0°♋	
morning rise	-880 Jul 15 j 00:57	2°♋48'06	
retrograde	-880 Nov 14 j 03:58	20°♋14'12	
opposition	-879 Jan 13 j 00:02	15°♋16'49	1°00'11
min. Earth dist.	-879 Jan 13 j 01:01	15°♋16'30	4.37105 AU
direct	-879 Mar 15 j 11:28	10°♋13'35	
evening set	-879 Jul 20 j 19:35	28°♋05'18	
	-879 Jul 29 j 15:02	0°♌	
max. Earth dist.	-879 Aug 02 j 11:15	0°♌50'13	6.40541 AU
conjunction	-879 Aug 03 j 01:27	0°♌57'56	0°56'27
minimum elong	-879 Aug 03 j 01:24	0°♌57'55	0°56'28
morning rise	-879 Aug 16 j 04:15	3°♌49'01	
	-879 Oct 12 j 00:47	15°♌	
retrograde	-879 Dec 14 j 13:54	20°♌45'20	
opposition	-878 Feb 12 j 19:43	15°♌51'18	1°37'13
min. Earth dist.	-878 Feb 13 j 12:17	15°♌45'55	4.42524 AU
	-878 Feb 19 j 10:43	15℞♌	
direct	-878 Apr 16 j 04:24	10°♌48'23	
	-878 Jun 10 j 11:46	15°♌	
evening set	-878 Aug 21 j 07:10	28°♌29'28	
	-878 Aug 28 j 06:03	0°♍	
max. Earth dist.	-878 Sep 01 j 18:34	0°♍59'09	6.42716 AU
conjunction	-878 Sep 03 j 04:51	1°♍17'51	1°13'08
minimum elong	-878 Sep 03 j 04:50	1°♍17'51	1°13'08
morning rise	-878 Sep 15 j 23:29	4°♍04'49	
retrograde	-877 Jan 14 j 06:06	20°♍58'03	
opposition	-877 Mar 15 j 20:52	16°♍06'02	1°47'35
min. Earth dist.	-877 Mar 17 j 02:13	15°♍56'40	4.41427 AU
direct	-877 May 17 j 14:35	11°♍04'33	
evening set	-877 Sep 21 j 02:32	28°♍49'00	

Attention, astronomical year style is used: The year -877 in astronomical counting style is the year 878 BCE in historical counting style.

	-877 Sep 26 j 11:35	0°♎		
max. Earth dist.	-877 Oct 01 j 20:18	1°♎11'09	6.38315 AU	
conjunction	-877 Oct 03 j 18:35	1°♎36'46	1°09'43	
minimum elong	-877 Oct 03 j 18:36	1°♎36'47	1°09'42	
morning rise	-877 Oct 16 j 08:34	4°♎23'39		
retrograde	-876 Feb 15 j 00:36	21°♎40'28		
opposition	-876 Apr 15 j 22:25	16°♎48'44	1°28'23	
min. Earth dist.	-876 Apr 17 j 08:14	16°♎37'59	4.33984 AU	
direct	-876 Jun 17 j 07:39	11°♎49'29		
evening set	-876 Oct 21 j 01:44	29°♎50'58		
	-876 Oct 21 j 17:48	0°♏		
max. Earth dist.	-876 Oct 31 j 20:38	2°♏17'16	6.28408 AU	
conjunction	-876 Nov 02 j 16:11	2°♏41'59	0°46'22	
minimum elong	-876 Nov 02 j 16:13	2°♏42'00	0°46'22	
morning rise	-876 Nov 15 j 05:35	5°♏32'44		
	-876 Dec 29 j 19:51	15°♏		
retrograde	-875 Mar 19 j 14:46	23°♏36'48		
opposition	-875 May 19 j 15:08	18°♏43'44	0°42'04	
min. Earth dist.	-875 May 20 j 19:19	18°♏34'44	4.22148 AU	
	-875 Jun 21 j 19:28	15°℞♏		
direct	-875 Jul 20 j 00:46	13°♏47'12		
	-875 Aug 17 j 02:56	15°♏		
	-875 Nov 12 j 04:06	0°♐		
evening set	-875 Nov 22 j 02:22	2°♐16'40		
conjunction	-875 Dec 04 j 18:34	5°♐13'41	0°08'00	
minimum elong	-875 Dec 04 j 18:35	5°♐13'41	0°07'59	
behind sun begin	-875 Dec 04 j 11:24	5°♐09'32		
behind sun end	-875 Dec 05 j 01:45	5°♐17'51		
max. Earth dist.	-875 Dec 03 j 12:09	4°♐55'56	6.15670 AU	
morning rise	-875 Dec 17 j 11:40	8°♐11'23		
desc. node	-874 Feb 15 j 23:49	20°♐52'57		
retrograde	-874 Apr 24 j 08:27	27°♐17'39		
opposition	-874 Jun 24 j 04:21	22°♐21'41	-0°20'50	
min. Earth dist.	-874 Jun 24 j 16:57	22°♐17'36	4.09393 AU	
direct	-874 Aug 23 j 05:12	17°♐27'26		
	-874 Nov 27 j 16:01	0°♑		
evening set	-874 Dec 25 j 21:37	6°♑29'15		
conjunction	-873 Jan 07 j 18:46	9°♑33'20	-0°34'42	
minimum elong	-873 Jan 07 j 18:44	9°♑33'19	0°34'42	
max. Earth dist.	-873 Jan 07 j 15:12	9°♑31'13	6.04081 AU	
morning rise	-873 Jan 20 j 18:01	12°♑38'47		
	-873 Apr 19 j 11:40	0°♒		
retrograde	-873 May 31 j 19:27	2°♒43'20		
	-873 Jul 13 j 07:06	30°℞♑		
opposition	-873 Jul 31 j 04:13	27°♑43'35	-1°19'33	
min. Earth dist.	-873 Jul 30 j 20:36	27°♑46'06	4.00123 AU	
direct	-873 Sep 27 j 21:03	22°♑50'17		
	-873 Dec 05 j 18:30	0°♒		
evening set	-872 Jan 30 j 16:41	12°♒16'56		
	-872 Feb 11 j 00:07	15°♒		
conjunction	-872 Feb 12 j 20:36	15°♒26'47	-1°05'51	
minimum elong	-872 Feb 12 j 20:34	15°♒26'45	1°05'51	
max. Earth dist.	-872 Feb 13 j 21:28	15°♒41'45	5.97928 AU	
morning rise	-872 Feb 26 j 03:54	18°♒38'24		
	-872 Apr 17 j 04:38	0°♓		
retrograde	-872 Jul 07 j 13:18	9°♓10'49		
min. Earth dist.	-872 Sep 04 j 10:17	4°♓16'07	3.97928 AU	
opposition	-872 Sep 05 j 12:10	4°♓07'22	-1°49'01	
	-872 Oct 12 j 00:53	30°℞♒		
direct	-872 Nov 02 j 10:19	29°♒12'49		
	-872 Nov 23 j 21:44	0°♓		
evening set	-871 Mar 07 j 20:29	18°♓44'40		
conjunction	-871 Mar 21 j 08:26	21°♓57'13	-1°11'54	
minimum elong	-871 Mar 21 j 08:27	21°♓57'14	1°11'54	
max. Earth dist.	-871 Mar 23 j 07:35	22°♓25'17	5.99788 AU	
morning rise	-871 Apr 03 j 23:16	25°♓11'10		
	-871 Apr 24 j 18:12	0°♈		
retrograde	-871 Aug 13 j 07:06	15°♈24'21		
opposition	-871 Oct 11 j 20:40	10°♈19'08	-1°35'47	
min. Earth dist.	-871 Oct 10 j 12:42	10°♈30'03	4.03697 AU	
direct	-871 Dec 08 j 23:40	5°♈21'45		
evening set	-870 Apr 14 j 02:50	24°♈35'54		
conjunction	-870 Apr 27 j 20:35	27°♈46'56	-0°50'34	
minimum elong	-870 Apr 27 j 20:38	27°♈46'58	0°50'34	
max. Earth dist.	-870 Apr 29 j 23:15	28°♈16'19	6.08894 AU	
	-870 May 07 j 10:19	0°♉		
morning rise	-870 May 11 j 15:48	0°♉58'29		
	-870 Jul 19 j 08:19	15°♉		
retrograde	-870 Sep 16 j 21:20	20°♉15'38		
min. Earth dist.	-870 Nov 14 j 04:54	15°♉21'07	4.15093 AU	
opposition	-870 Nov 15 j 09:09	15°♉11'30	-0°48'06	
	-870 Nov 16 j 18:57	15°℞♉		
direct	-869 Jan 13 j 09:10	10°♉11'05		
	-869 Mar 11 j 07:03	15°♉		
evening set	-869 May 20 j 06:29	28°♉54'04		
	-869 May 25 j 04:02	0°♊		
conjunction	-869 Jun 03 j 00:39	1°♊59'43	-0°12'06	
minimum elong	-869 Jun 03 j 00:40	1°♊59'44	0°12'06	
behind sun begin	-869 Jun 02 j 19:08	1°♊56'38		
behind sun end	-869 Jun 03 j 06:11	2°♊02'49		
max. Earth dist.	-869 Jun 04 j 10:29	2°♊18'47	6.21663 AU	
morning rise	-869 Jun 16 j 18:22	5°♊04'50		
asc. node	-869 Sep 25 j 13:08	22°♊21'48		
retrograde	-869 Oct 19 j 10:09	23°♊16'52		
min. Earth dist.	-869 Dec 17 j 10:35	18°♊20'41	4.27947 AU	
opposition	-869 Dec 18 j 00:41	18°♊15'57	0°12'49	
direct	-868 Feb 16 j 09:32	13°♊13'23		
	-868 Jun 16 j 03:36	0°♋		
evening set	-868 Jun 22 j 15:52	1°♋24'59		
conjunction	-868 Jul 06 j 04:57	4°♋23'24	0°28'47	
minimum elong	-868 Jul 06 j 04:55	4°♋23'23	0°28'48	
max. Earth dist.	-868 Jul 06 j 14:31	4°♋28'39	6.33639 AU	
morning rise	-868 Jul 19 j 15:34	7°♋20'28		
retrograde	-868 Nov 18 j 09:41	24°♋41'06		
opposition	-867 Jan 17 j 08:10	19°♋44'07	1°06'44	
min. Earth dist.	-867 Jan 17 j 10:10	19°♋43'27	4.38165 AU	
direct	-867 Mar 19 j 22:17	14°♋40'48		
	-867 Jul 13 j 14:20	0°♌		
evening set	-867 Jul 25 j 07:01	2°♌30'00		
conjunction	-867 Aug 07 j 11:34	5°♌21'48	0°59'53	
minimum elong	-867 Aug 07 j 11:31	5°♌21'46	0°59'53	
max. Earth dist.	-867 Aug 06 j 18:08	5°♌12'19	6.41288 AU	
morning rise	-867 Aug 20 j 13:09	8°♌12'03		
	-867 Sep 22 j 05:44	15°♌		
retrograde	-867 Dec 18 j 20:33	25°♌05'54		
opposition	-866 Feb 17 j 03:14	20°♌12'10	1°40'21	
min. Earth dist.	-866 Feb 17 j 22:30	20°♌05'56	4.42889 AU	
direct	-866 Apr 20 j 15:25	15°♌09'20		
	-866 Aug 12 j 10:00	0°♍		
evening set	-866 Aug 25 j 14:49	2°♍49'25		
max. Earth dist.	-866 Sep 05 j 22:35	5°♍17'16	6.42626 AU	
conjunction	-866 Sep 07 j 11:32	5°♍37'26	1°13'53	
minimum elong	-866 Sep 07 j 11:32	5°♍37'25	1°13'53	
morning rise	-866 Sep 20 j 05:19	8°♍24'04		

Attention, astronomical year style is used: The year -865 in astronomical counting style is the year 866 BCE in historical counting style.

retrograde	-865 Jan 18 j 13:15	25°♍18'27		
opposition	-865 Mar 20 j 05:56	20°♍26'30	1°46'38	
min. Earth dist.	-865 Mar 21 j 12:04	20°♍16'52	4.40883 AU	
direct	-865 May 21 j 23:08	15°♍25'12		
	-865 Sep 10 j 17:15	0°♎		
evening set	-865 Sep 25 j 09:02	3°♎10'46		
max. Earth dist.	-865 Oct 06 j 03:00	5°♎33'22	6.37349 AU	
conjunction	-865 Oct 08 j 00:42	5°♎58'44	1°07'35	
minimum elong	-865 Oct 08 j 00:43	5°♎58'45	1°07'34	
morning rise	-865 Oct 20 j 14:13	8°♎45'51		
retrograde	-864 Feb 19 j 13:10	26°♎07'28		
opposition	-864 Apr 20 j 11:49	21°♎15'40	1°23'24	
min. Earth dist.	-864 Apr 21 j 21:58	21°♎04'49	4.32629 AU	
direct	-864 Jun 21 j 19:21	16°♎16'47		
	-864 Oct 05 j 17:26	0°♏		
evening set	-864 Oct 25 j 10:14	4°♏21'21		
max. Earth dist.	-864 Nov 05 j 04:32	6°♏47'56	6.26766 AU	
conjunction	-864 Nov 07 j 00:36	7°♏13'01	0°41'44	
minimum elong	-864 Nov 07 j 00:38	7°♏13'02	0°41'44	
morning rise	-864 Nov 19 j 14:27	10°♏04'37		
	-864 Dec 11 j 19:27	15°♏		
retrograde	-863 Mar 24 j 10:16	28°♏16'41		
opposition	-863 May 24 j 10:35	23°♏23'16	0°33'57	
min. Earth dist.	-863 May 25 j 13:11	23°♏14'45	4.20309 AU	
direct	-863 Jul 24 j 16:10	18°♏27'03		
	-863 Oct 26 j 06:33	0°♐		
evening set	-863 Nov 26 j 15:57	7°♐01'12		
max. Earth dist.	-863 Dec 08 j 06:16	9°♐43'42	6.13812 AU	
conjunction	-863 Dec 09 j 08:51	9°♐59'16	0°02'00	
minimum elong	-863 Dec 09 j 08:51	9°♐59'16	0°01'59	
behind sun begin	-863 Dec 09 j 00:50	9°♐54'36		
behind sun end	-863 Dec 09 j 16:52	10°♐03'57		
morning rise	-863 Dec 22 j 02:31	12°♐58'03		
desc. node	-863 Dec 27 j 06:00	14°♐09'40		
	-862 Mar 22 j 04:09	0°♑		
retrograde	-862 Apr 29 j 11:59	2°♑13'31		
	-862 Jun 07 j 01:06	30°℞♐		
opposition	-862 Jun 29 j 05:46	27°♐17'10	-0°29'50	
min. Earth dist.	-862 Jun 29 j 16:25	27°♐13'43	4.07675 AU	
direct	-862 Aug 28 j 01:52	22°♐23'11		
	-862 Nov 08 j 07:11	0°♑		
evening set	-862 Dec 30 j 18:33	11°♑29'53		
conjunction	-861 Jan 12 j 16:24	14°♑34'58	-0°40'06	
minimum elong	-861 Jan 12 j 16:22	14°♑34'57	0°40'07	
max. Earth dist.	-861 Jan 12 j 15:16	14°♑34'17	6.02651 AU	
morning rise	-861 Jan 25 j 16:53	17°♑41'33		
	-861 Mar 23 j 01:17	0°♒		
retrograde	-861 Jun 06 j 01:08	7°♒53'08		
opposition	-861 Aug 05 j 09:16	2°♒52'51	-1°25'56	
min. Earth dist.	-861 Aug 04 j 22:02	2°♒56'35	3.99156 AU	
	-861 Aug 28 j 15:56	30°℞♑		
direct	-861 Oct 02 j 21:28	27°♑59'33		
	-861 Nov 06 j 18:59	0°♒		
	-860 Jan 25 j 08:41	15°♒		
evening set	-860 Feb 04 j 19:57	17°♒29'13		
conjunction	-860 Feb 18 j 01:09	20°♒39'46	-1°08'24	
minimum elong	-860 Feb 18 j 01:07	20°♒39'45	1°08'23	
max. Earth dist.	-860 Feb 19 j 07:05	20°♒57'47	5.97524 AU	
morning rise	-860 Mar 02 j 09:27	23°♒52'03		
	-860 Mar 28 j 18:04	0°♓		
retrograde	-860 Jul 12 j 20:39	14°♓25'29		
opposition	-860 Sep 10 j 16:43	9°♓21'42	-1°49'45	
min. Earth dist.	-860 Sep 09 j 13:49	9°♓30'49	3.98162 AU	
direct	-860 Nov 07 j 15:04	4°♓26'55		
evening set	-859 Mar 13 j 02:45	23°♓57'59		
conjunction	-859 Mar 26 j 15:42	27°♓10'36	-1°10'25	
minimum elong	-859 Mar 26 j 15:44	27°♓10'38	1°10'24	
max. Earth dist.	-859 Mar 28 j 17:27	27°♓40'08	6.00651 AU	
	-859 Apr 07 j 13:47	0°♈		
morning rise	-859 Apr 09 j 07:28	0°♈24'33		
retrograde	-859 Aug 18 j 06:33	20°♈31'28		
min. Earth dist.	-859 Oct 15 j 10:34	15°♈37'39	4.05121 AU	
opposition	-859 Oct 16 j 19:49	15°♈26'18	-1°30'44	
direct	-859 Dec 13 j 23:46	10°♈28'32		
evening set	-858 Apr 19 j 06:46	29°♈38'24		
	-858 Apr 20 j 20:22	0°♉		
conjunction	-858 May 03 j 00:48	2°♉48'45	-0°45'53	
minimum elong	-858 May 03 j 00:51	2°♉48'47	0°45'52	
max. Earth dist.	-858 May 05 j 01:29	3°♉16'52	6.10759 AU	
morning rise	-858 May 16 j 20:12	5°♉59'29		
	-858 Jun 27 j 06:46	15°♉		
retrograde	-858 Sep 21 j 12:44	25°♉06'33		
min. Earth dist.	-858 Nov 18 j 22:44	20°♉11'42	4.17186 AU	
opposition	-858 Nov 20 j 01:08	20°♉02'43	-0°39'53	
direct	-857 Jan 18 j 06:28	15°♉01'56		
	-857 May 08 j 13:23	0°♊		
evening set	-857 May 25 j 03:46	3°♊39'04		
conjunction	-857 Jun 07 j 21:36	6°♊43'36	-0°06'18	
minimum elong	-857 Jun 07 j 21:37	6°♊43'36	0°06'17	
behind sun begin	-857 Jun 07 j 13:46	6°♊39'13		
behind sun end	-857 Jun 08 j 05:29	6°♊47'59		
max. Earth dist.	-857 Jun 09 j 05:57	7°♊01'43	6.23824 AU	
morning rise	-857 Jun 21 j 14:25	9°♊47'25		
asc. node	-857 Aug 06 j 04:09	19°♊18'43		
retrograde	-857 Oct 23 j 17:34	27°♊49'49		
opposition	-857 Dec 22 j 10:00	22°♊49'27	0°21'01	
min. Earth dist.	-857 Dec 21 j 21:21	22°♊53'41	4.29979 AU	
direct	-856 Feb 20 j 22:51	17°♊46'43		
	-856 May 30 j 10:26	0°♋		
evening set	-856 Jun 27 j 05:52	5°♋53'11		
conjunction	-856 Jul 10 j 17:39	8°♋50'22	0°33'49	
minimum elong	-856 Jul 10 j 17:37	8°♋50'21	0°33'50	
max. Earth dist.	-856 Jul 10 j 21:45	8°♋52'37	6.35369 AU	
morning rise	-856 Jul 24 j 03:09	11°♋46'14		
retrograde	-856 Nov 22 j 14:12	29°♋00'30		
opposition	-855 Jan 21 j 13:27	24°♋04'02	1°12'40	
min. Earth dist.	-855 Jan 21 j 19:06	24°♋02'10	4.39479 AU	
direct	-855 Mar 24 j 08:57	19°♋00'38		
	-855 Jun 26 j 22:48	0°♌		
evening set	-855 Jul 29 j 14:48	6°♌46'52		
conjunction	-855 Aug 11 j 18:19	9°♌37'54	1°02'52	
minimum elong	-855 Aug 11 j 18:16	9°♌37'52	1°02'52	
max. Earth dist.	-855 Aug 10 j 22:00	9°♌26'51	6.42064 AU	
morning rise	-855 Aug 24 j 18:33	12°♌27'20		
	-855 Sep 05 j 16:02	15°♌		
retrograde	-855 Dec 22 j 22:03	29°♌19'08		
opposition	-854 Feb 21 j 07:30	24°♌25'43	1°42'51	
min. Earth dist.	-854 Feb 22 j 04:17	24°♌19'00	4.43101 AU	
direct	-854 Apr 24 j 20:37	19°♌22'59		
	-854 Jul 26 j 21:05	0°♍		
evening set	-854 Aug 29 j 19:22	7°♍02'54		
max. Earth dist.	-854 Sep 09 j 23:31	9°♍29'01	6.42235 AU	
conjunction	-854 Sep 11 j 15:08	9°♍50'41	1°14'12	

Attention, astronomical year style is used: The year -854 in astronomical counting style is the year 855 BCE in historical counting style.

minimum elong	-854 Sep 11 j 15:08	9°♍50'41	1°14'13	
morning rise	-854 Sep 24 j 08:09	12°♍37'11		
retrograde	-853 Jan 22 j 20:13	29°♍34'04		
opposition	-853 Mar 24 j 13:10	24°♍42'16	1°45'11	
min. Earth dist.	-853 Mar 25 j 21:40	24°♍31'54	4.39907 AU	
direct	-853 May 26 j 07:10	19°♍41'12		
	-853 Aug 25 j 00:22	0°♎		
evening set	-853 Sep 29 j 13:41	7°♎29'24		
max. Earth dist.	-853 Oct 10 j 05:07	9°♎51'10	6.35844 AU	
conjunction	-853 Oct 12 j 05:00	10°♎17'49	1°05'07	
minimum elong	-853 Oct 12 j 05:02	10°♎17'50	1°05'07	
morning rise	-853 Oct 24 j 18:28	13°♎05'30		
	-852 Feb 04 j 23:12	0°♏		
retrograde	-852 Feb 24 j 01:20	0°♏33'59		
	-852 Mar 14 j 05:17	30°℞♎		
opposition	-852 Apr 25 j 00:45	25°♎42'01	1°18'01	
min. Earth dist.	-852 Apr 26 j 10:15	25°♎31'22	4.30689 AU	
direct	-852 Jun 26 j 04:35	20°♎43'25		
	-852 Sep 18 j 04:49	0°♏		
evening set	-852 Oct 29 j 18:54	8°♏53'11		
max. Earth dist.	-852 Nov 09 j 15:57	11°♏22'02	6.24560 AU	
conjunction	-852 Nov 11 j 09:35	11°♏45'52	0°36'53	
minimum elong	-852 Nov 11 j 09:38	11°♏45'53	0°36'53	
morning rise	-852 Nov 23 j 23:43	14°♏38'32		
	-852 Nov 25 j 13:30	15°♏		
	-851 Feb 12 j 07:48	0°♐		
retrograde	-851 Mar 29 j 08:45	3°♐00'36		
	-851 May 14 j 04:18	30°℞♏		
opposition	-851 May 29 j 07:22	28°♏06'54	0°25'34	
min. Earth dist.	-851 May 30 j 08:55	27°♏58'43	4.17987 AU	
direct	-851 Jul 29 j 08:36	23°♏11'02		
	-851 Oct 06 j 12:17	0°♐		
desc. node	-851 Nov 06 j 10:47	6°♐12'31		
evening set	-851 Dec 01 j 07:41	11°♐51'35		
max. Earth dist.	-851 Dec 13 j 00:30	14°♐36'23	6.11579 AU	
conjunction	-851 Dec 14 j 01:07	14°♐50'52	-0°04'11	
minimum elong	-851 Dec 14 j 01:06	14°♐50'51	0°04'11	
behind sun begin	-851 Dec 13 j 17:12	14°♐46'13		
behind sun end	-851 Dec 14 j 09:01	14°♐55'29		
morning rise	-851 Dec 26 j 19:51	17°♐51'02		
	-850 Feb 21 j 14:11	0°♑		
retrograde	-850 May 04 j 17:03	7°♑17'03		
opposition	-850 Jul 04 j 09:55	2°♑20'07	-0°38'46	
min. Earth dist.	-850 Jul 04 j 16:26	2°♑18'00	4.05745 AU	
	-850 Jul 23 j 02:47	30°℞♐		
direct	-850 Sep 01 j 23:48	27°♐26'20		
	-850 Oct 12 j 03:26	0°♑		
evening set	-849 Jan 04 j 18:23	16°♑38'28		
conjunction	-849 Jan 17 j 17:20	19°♑44'37	-0°45'17	
minimum elong	-849 Jan 17 j 17:17	19°♑44'36	0°45'18	
max. Earth dist.	-849 Jan 17 j 22:23	19°♑47'39	6.01209 AU	
morning rise	-849 Jan 30 j 18:45	22°♑52'17		
	-849 Mar 02 j 16:53	0°♒		
retrograde	-849 Jun 11 j 11:39	13°♒10'26		
opposition	-849 Aug 10 j 17:09	8°♒09'33	-1°31'43	
min. Earth dist.	-849 Aug 10 j 03:33	8°♒14'04	3.98376 AU	
direct	-849 Oct 08 j 02:57	3°♒16'09		
	-848 Jan 07 j 06:52	15°♒		
evening set	-848 Feb 10 j 02:09	22°♒47'38		
conjunction	-848 Feb 23 j 08:24	25°♒58'43	-1°10'25	
minimum elong	-848 Feb 23 j 08:22	25°♒58'42	1°10'25	
max. Earth dist.	-848 Feb 24 j 18:38	26°♒19'18	5.97451 AU	
morning rise	-848 Mar 07 j 17:56	29°♒11'31		
	-848 Mar 11 j 03:24	0°♓		
retrograde	-848 Jul 18 j 02:51	19°♓43'35		
opposition	-848 Sep 15 j 22:07	14°♓39'23	-1°49'34	
min. Earth dist.	-848 Sep 14 j 16:34	14°♓49'24	3.98824 AU	
direct	-848 Nov 12 j 19:18	9°♓44'12		
evening set	-847 Mar 18 j 10:05	29°♓12'42		
	-847 Mar 21 j 18:23	0°♈		
conjunction	-847 Mar 31 j 23:51	2°♈25'07	-1°08'21	
minimum elong	-847 Mar 31 j 23:54	2°♈25'08	1°08'21	
max. Earth dist.	-847 Apr 03 j 02:10	2°♈54'52	6.01935 AU	
morning rise	-847 Apr 14 j 16:26	5°♈38'46		
retrograde	-847 Aug 23 j 05:07	25°♈37'40		
min. Earth dist.	-847 Oct 20 j 10:04	20°♈43'35	4.06846 AU	
opposition	-847 Oct 21 j 18:43	20°♈32'25	-1°24'58	
direct	-847 Dec 19 j 02:11	15°♈34'10		
	-846 Apr 03 j 18:03	0°♉		
evening set	-846 Apr 24 j 09:55	4°♉38'41		
conjunction	-846 May 08 j 04:22	7°♉48'17	-0°40'51	
minimum elong	-846 May 08 j 04:25	7°♉48'18	0°40'50	
max. Earth dist.	-846 May 10 j 04:59	8°♉16'13	6.12776 AU	
morning rise	-846 May 21 j 23:34	10°♉58'03		
	-846 Jun 08 j 23:20	15°♉		
retrograde	-846 Sep 26 j 03:41	29°♉54'46		
opposition	-846 Nov 24 j 16:27	24°♉51'23	-0°31'25	
min. Earth dist.	-846 Nov 23 j 15:29	24°♉59'51	4.19277 AU	
direct	-845 Jan 23 j 01:54	19°♉50'18		
	-845 Apr 20 j 13:36	0°♊		
evening set	-845 May 30 j 00:39	8°♊21'53		
conjunction	-845 Jun 12 j 17:43	11°♊25'17	-0°00'22	
minimum elong	-845 Jun 12 j 17:43	11°♊25'17	0°00'22	
behind sun begin	-845 Jun 12 j 09:25	11°♊20'40		
behind sun end	-845 Jun 13 j 02:02	11°♊29'54		
max. Earth dist.	-845 Jun 13 j 20:58	11°♊40'29	6.25819 AU	
asc. node	-845 Jun 16 j 01:35	12°♊09'51		
morning rise	-845 Jun 26 j 09:51	14°♊27'55		
	-845 Sep 19 j 01:49	0°♋		
retrograde	-845 Oct 28 j 02:00	2°♋21'45		
	-845 Dec 05 j 23:38	30°℞♊		
opposition	-845 Dec 26 j 19:26	27°♊21'56	0°29'07	
min. Earth dist.	-845 Dec 26 j 09:50	27°♊25'09	4.31727 AU	
direct	-844 Feb 25 j 13:47	22°♊19'01		
	-844 May 11 j 12:24	0°♋		
evening set	-844 Jul 01 j 19:57	10°♋21'30		
conjunction	-844 Jul 15 j 06:48	13°♋17'43	0°38'43	
minimum elong	-844 Jul 15 j 06:45	13°♋17'41	0°38'43	
max. Earth dist.	-844 Jul 15 j 08:16	13°♋18'31	6.36750 AU	
morning rise	-844 Jul 28 j 14:52	16°♋12'28		
	-844 Oct 10 j 10:48	0°♌		
retrograde	-844 Nov 26 j 18:45	3°♌21'49		
	-843 Jan 13 j 15:26	30°℞♋		
opposition	-843 Jan 25 j 20:01	28°♋25'54	1°18'20	
min. Earth dist.	-843 Jan 26 j 03:33	28°♋23'26	4.40419 AU	
direct	-843 Mar 28 j 18:11	23°♋22'36		
	-843 Jun 07 j 13:27	0°♌		
evening set	-843 Aug 02 j 24:00	11°♌07'03		
max. Earth dist.	-843 Aug 15 j 01:13	13°♌43'50	6.42481 AU	
conjunction	-843 Aug 16 j 02:10	13°♌57'24	1°05'36	
minimum elong	-843 Aug 16 j 02:08	13°♌57'22	1°05'36	
	-843 Aug 20 j 21:19	15°♌		
morning rise	-843 Aug 29 j 01:25	16°♌46'15		
	-843 Nov 07 j 16:16	0°♍		

Attention, astronomical year style is used: The year -843 in astronomical counting style is the year 844 BCE in historical counting style.

retrograde	-843 Dec 27 j 05:04	3°♍37'21		
	-842 Feb 15 j 16:40	30°℞♌		
opposition	-842 Feb 25 j 14:41	28°♌44'18	1°44'54	
min. Earth dist.	-842 Feb 26 j 14:30	28°♌36'38	4.42990 AU	
direct	-842 Apr 29 j 06:27	23°♌41'45		
	-842 Jul 07 j 08:02	0°♍		
evening set	-842 Sep 03 j 02:10	11°♍22'21		
max. Earth dist.	-842 Sep 14 j 04:03	13°♍47'30	6.41594 AU	
conjunction	-842 Sep 15 j 21:15	14°♍10'04	1°14'09	
minimum elong	-842 Sep 15 j 21:16	14°♍10'04	1°14'09	
morning rise	-842 Sep 28 j 13:28	16°♍56'32		
	-842 Dec 06 j 05:28	0°♎		
retrograde	-841 Jan 27 j 04:42	3°♎56'49		
	-841 Mar 21 j 18:22	30°℞♍		
opposition	-841 Mar 28 j 23:34	29°♍05'07	1°43'07	
min. Earth dist.	-841 Mar 30 j 08:02	28°♍54'46	4.38792 AU	
direct	-841 May 30 j 15:23	24°♍04'24		
	-841 Aug 04 j 23:19	0°♎		
evening set	-841 Oct 03 j 21:25	11°♎55'35		
max. Earth dist.	-841 Oct 14 j 12:56	14°♎17'55	6.34347 AU	
conjunction	-841 Oct 16 j 12:24	14°♎44'28	1°02'13	
minimum elong	-841 Oct 16 j 12:26	14°♎44'29	1°02'13	
morning rise	-841 Oct 29 j 01:43	17°♎32'43		
	-841 Dec 30 j 19:17	0°♏		
retrograde	-840 Feb 28 j 18:49	5°♏08'10		
opposition	-840 Apr 29 j 17:23	0°♏16'09	1°11'58	
min. Earth dist.	-840 May 01 j 03:10	0°♏05'24	4.28892 AU	
	-840 May 01 j 20:09	30°℞♎		
direct	-840 Jun 30 j 18:55	25°♎18'00		
	-840 Aug 27 j 07:13	0°♏		
evening set	-840 Nov 03 j 06:17	13°♏32'17		
	-840 Nov 09 j 15:41	15°♏		
max. Earth dist.	-840 Nov 14 j 04:32	16°♏02'30	6.22633 AU	
conjunction	-840 Nov 15 j 21:10	16°♏25'51	0°31'40	
minimum elong	-840 Nov 15 j 21:12	16°♏25'52	0°31'38	
morning rise	-840 Nov 28 j 11:53	19°♏19'34		
	-839 Jan 17 j 19:51	0°♐		
retrograde	-839 Apr 03 j 08:07	7°♐50'49		
opposition	-839 Jun 03 j 06:50	2°♐56'47	0°16'47	
min. Earth dist.	-839 Jun 04 j 04:59	2°♐49'40	4.16088 AU	
	-839 Jun 27 j 21:59	30°℞♏		
direct	-839 Aug 03 j 01:59	28°♏01'21		
	-839 Sep 07 j 20:33	0°♐		
desc. node	-839 Sep 16 j 00:14	0°♐57'26		
evening set	-839 Dec 06 j 01:17	16°♐46'43		
conjunction	-839 Dec 18 j 19:22	19°♐46'59	-0°10'18	
minimum elong	-839 Dec 18 j 19:22	19°♐46'59	0°10'18	
behind sun begin	-839 Dec 18 j 12:57	19°♐43'13		
behind sun end	-839 Dec 19 j 01:47	19°♐50'46		
max. Earth dist.	-839 Dec 17 j 23:56	19°♐35'31	6.09906 AU	
morning rise	-839 Dec 31 j 14:48	22°♐48'13		
	-838 Feb 01 j 08:58	0°♑		
retrograde	-838 May 09 j 23:55	12°♑22'36		
opposition	-838 Jul 09 j 14:42	7°♑25'11	-0°47'29	
min. Earth dist.	-838 Jul 09 j 18:52	7°♑23'49	4.04463 AU	
direct	-838 Sep 07 j 00:55	2°♑31'38		
evening set	-837 Jan 09 j 18:25	21°♑46'51		
conjunction	-837 Jan 22 j 18:11	24°♑53'43	-0°50'06	
minimum elong	-837 Jan 22 j 18:09	24°♑53'42	0°50'06	
max. Earth dist.	-837 Jan 23 j 03:28	24°♑59'18	6.00436 AU	
morning rise	-837 Feb 04 j 20:44	28°♑02'12		
	-837 Feb 13 j 03:30	0°♒		
	-837 Apr 30 j 09:08	15°♒		
retrograde	-837 Jun 16 j 17:50	18°♒23'52		
	-837 Aug 03 j 12:56	15°℞♒		
opposition	-837 Aug 15 j 22:42	13°♒22'28	-1°36'38	
min. Earth dist.	-837 Aug 15 j 05:26	13°♒28'13	3.98234 AU	
direct	-837 Oct 13 j 05:13	8°♒28'57		
	-837 Dec 17 j 09:49	15°♒		
evening set	-836 Feb 15 j 06:00	28°♒00'12		
	-836 Feb 23 j 14:08	0°♓		
conjunction	-836 Feb 28 j 13:12	1°♓11'29	-1°11'49	
minimum elong	-836 Feb 28 j 13:11	1°♓11'28	1°11'50	
max. Earth dist.	-836 Mar 01 j 02:06	1°♓33'38	5.97917 AU	
morning rise	-836 Mar 12 j 23:45	4°♓24'29		
retrograde	-836 Jul 23 j 04:36	24°♓53'16		
opposition	-836 Sep 20 j 23:39	19°♓48'42	-1°48'28	
min. Earth dist.	-836 Sep 19 j 17:15	19°♓59'02	3.99841 AU	
direct	-836 Nov 17 j 21:57	14°♓53'06		
	-835 Mar 04 j 22:26	0°♈		
evening set	-835 Mar 23 j 13:21	4°♈18'03		
conjunction	-835 Apr 06 j 04:05	7°♈30'11	-1°05'50	
minimum elong	-835 Apr 06 j 04:07	7°♈30'12	1°05'49	
max. Earth dist.	-835 Apr 08 j 08:22	8°♈00'59	6.03405 AU	
morning rise	-835 Apr 19 j 21:07	10°♈43'22		
	-835 Aug 09 j 11:18	0°♉		
retrograde	-835 Aug 28 j 00:15	0°♉33'46		
	-835 Sep 15 j 08:18	30°℞♈		
min. Earth dist.	-835 Oct 25 j 05:20	25°♈39'31	4.08598 AU	
opposition	-835 Oct 26 j 13:08	25°♈28'40	-1°18'47	
direct	-835 Dec 23 j 23:40	20°♈30'00		
	-834 Mar 16 j 10:04	0°♉		
evening set	-834 Apr 29 j 09:12	9°♉29'30		
conjunction	-834 May 13 j 03:38	12°♉38'18	-0°35'43	
minimum elong	-834 May 13 j 03:41	12°♉38'20	0°35'42	
max. Earth dist.	-834 May 15 j 00:34	13°♉04'00	6.14648 AU	
	-834 May 23 j 11:48	15°♉		
morning rise	-834 May 26 j 22:54	15°♉47'13		
	-834 Aug 06 j 07:23	0°♊		
retrograde	-834 Sep 30 j 14:12	4°♊34'35		
	-834 Nov 25 j 16:02	30°℞♉		
min. Earth dist.	-834 Nov 28 j 04:58	29°♉39'23	4.21088 AU	
opposition	-834 Nov 29 j 03:58	29°♉31'35	-0°23'03	
direct	-833 Jan 27 j 17:59	24°♉30'08		
	-833 Mar 30 j 13:28	0°♊		
asc. node	-833 Apr 27 j 03:57	4°♊59'34		
evening set	-833 Jun 03 j 17:55	12°♊57'23		
conjunction	-833 Jun 17 j 10:32	15°♊59'53	0°05'25	
minimum elong	-833 Jun 17 j 10:32	15°♊59'52	0°05'26	
behind sun begin	-833 Jun 17 j 02:32	15°♊55'26		
behind sun end	-833 Jun 17 j 18:31	16°♊04'18		
max. Earth dist.	-833 Jun 18 j 10:48	16°♊13'23	6.27447 AU	
morning rise	-833 Jul 01 j 01:40	19°♊01'26		
	-833 Aug 24 j 02:21	0°♋		
retrograde	-833 Nov 01 j 09:11	6°♋48'17		
opposition	-833 Dec 31 j 02:39	1°♋49'04	0°36'50	
min. Earth dist.	-833 Dec 30 j 19:37	1°♋51'25	4.33050 AU	
	-832 Jan 14 j 02:10	30°℞♊		
direct	-832 Mar 01 j 01:04	26°♊46'02		
	-832 Apr 17 j 07:36	0°♋		
evening set	-832 Jul 06 j 08:03	14°♋45'55		
conjunction	-832 Jul 19 j 17:41	17°♋41'17	0°43'17	
minimum elong	-832 Jul 19 j 17:39	17°♋41'15	0°43'17	
max. Earth dist.	-832 Jul 19 j 14:01	17°♋39'16	6.37658 AU	

Attention, astronomical year style is used: The year -832 in astronomical counting style is the year 833 BCE in historical counting style.

morning rise	-832 Aug 02 j 00:43	20°♋35'12		
	-832 Sep 17 j 09:13	0°♌		
retrograde	-832 Dec 01 j 00:09	7°♌41'19		
opposition	-831 Jan 30 j 01:54	2°♌45'50	1°23'29	
min. Earth dist.	-831 Jan 30 j 12:13	2°♌42'27	4.40897 AU	
	-831 Feb 21 j 12:40	30°℞♋		
direct	-831 Apr 02 j 03:08	27°♋42'30		
	-831 May 12 j 01:50	0°♌		
	-831 Aug 05 j 07:17	15°♌		
evening set	-831 Aug 07 j 08:30	15°♌26'31		
max. Earth dist.	-831 Aug 19 j 07:22	18°♌02'04	6.42495 AU	
conjunction	-831 Aug 20 j 09:46	18°♌16'26	1°07'55	
minimum elong	-831 Aug 20 j 09:44	18°♌16'25	1°07'56	
morning rise	-831 Sep 02 j 07:46	21°♌04'49		
	-831 Oct 16 j 04:50	0°♍		
retrograde	-831 Dec 31 j 10:39	7°♍56'22		
opposition	-830 Mar 01 j 22:03	3°♍03'36	1°46'22	
min. Earth dist.	-830 Mar 02 j 22:38	2°♍55'42	4.42573 AU	
	-830 Mar 27 j 13:35	30°℞♌		
direct	-830 May 03 j 13:38	28°♌01'16		
	-830 Jun 09 j 18:10	0°♍		
evening set	-830 Sep 07 j 09:24	15°♍43'12		
max. Earth dist.	-830 Sep 18 j 08:12	18°♍07'04	6.40767 AU	
conjunction	-830 Sep 20 j 03:37	18°♍30'55	1°13'40	
minimum elong	-830 Sep 20 j 03:37	18°♍30'56	1°13'40	
morning rise	-830 Oct 02 j 19:21	21°♍17'29		
	-830 Nov 14 j 01:20	0°♎		
retrograde	-829 Jan 31 j 16:56	8°♎21'38		
opposition	-829 Apr 02 j 11:21	3°♎29'59	1°40'25	
min. Earth dist.	-829 Apr 03 j 21:04	3°♎19'14	4.37609 AU	
	-829 May 02 j 23:44	30°℞♍		
direct	-829 Jun 04 j 02:48	28°♍29'33		
	-829 Jul 06 j 04:55	0°♎		
evening set	-829 Oct 08 j 05:28	16°♎23'25		
max. Earth dist.	-829 Oct 18 j 21:37	18°♎46'35	6.32906 AU	
conjunction	-829 Oct 20 j 20:20	19°♎12'48	0°58'54	
minimum elong	-829 Oct 20 j 20:23	19°♎12'49	0°58'54	
morning rise	-829 Nov 02 j 09:34	22°♎01'36		
	-829 Dec 09 j 20:27	0°♏		
retrograde	-828 Mar 04 j 10:36	9°♏43'37		
opposition	-828 May 04 j 10:36	4°♏51'22	1°05'24	
min. Earth dist.	-828 May 05 j 18:12	4°♏41'18	4.27284 AU	
	-828 Jun 27 j 00:27	30°℞♎		
direct	-828 Jul 05 j 07:28	29°♎53'36		
	-828 Jul 13 j 15:09	0°♏		
	-828 Oct 24 j 14:40	15°♏		
evening set	-828 Nov 07 j 17:58	18°♏11'27		
max. Earth dist.	-828 Nov 18 j 19:26	20°♏44'04	6.20992 AU	
conjunction	-828 Nov 20 j 09:03	21°♏05'46	0°26'13	
minimum elong	-828 Nov 20 j 09:05	21°♏05'47	0°26'12	
morning rise	-828 Dec 03 j 00:11	24°♏00'22		
	-828 Dec 29 j 21:04	0°♐		
retrograde	-827 Apr 08 j 08:56	12°♐39'36		
opposition	-827 Jun 08 j 05:54	7°♐45'08	0°07'51	
min. Earth dist.	-827 Jun 09 j 02:41	7°♐38'27	4.14505 AU	
desc. node	-827 Jul 27 j 00:01	3°♐03'35		
direct	-827 Aug 07 j 21:47	2°♐49'59		
evening set	-827 Dec 10 j 18:05	21°♐39'01		
conjunction	-827 Dec 23 j 12:49	24°♐40'09	-0°16'19	
minimum elong	-827 Dec 23 j 12:47	24°♐40'08	0°16'20	
max. Earth dist.	-827 Dec 22 j 20:36	24°♐30'34	6.08515 AU	
morning rise	-826 Jan 05 j 09:08	27°♐42'22		
	-826 Jan 15 j 04:49	0°♑		
retrograde	-826 May 15 j 03:01	17°♑23'54		
opposition	-826 Jul 14 j 17:44	12°♑25'56	-0°55'47	
min. Earth dist.	-826 Jul 14 j 18:14	12°♑25'46	4.03405 AU	
direct	-826 Sep 11 j 22:39	7°♑32'32		
evening set	-825 Jan 14 j 17:00	26°♑50'19		
conjunction	-825 Jan 27 j 17:37	29°♑57'51	-0°54'30	
minimum elong	-825 Jan 27 j 17:34	29°♑57'50	0°54'30	
	-825 Jan 27 j 21:11	0°♒		
max. Earth dist.	-825 Jan 28 j 06:32	0°♒05'38	5.99786 AU	
morning rise	-825 Feb 09 j 21:11	3°♒07'03		
	-825 Apr 04 j 16:41	15°♒		
retrograde	-825 Jun 21 j 22:50	23°♒31'59		
min. Earth dist.	-825 Aug 20 j 07:01	18°♒36'28	3.98072 AU	
opposition	-825 Aug 21 j 02:12	18°♒30'02	-1°40'47	
	-825 Sep 19 j 08:42	15°℞♒		
direct	-825 Oct 18 j 07:14	13°♒36'19		
	-825 Nov 16 j 01:59	15°♒		
	-824 Feb 07 j 02:16	0°♓		
evening set	-824 Feb 20 j 08:31	3°♓07'48		
conjunction	-824 Mar 04 j 16:55	6°♓19'27	-1°12'41	
minimum elong	-824 Mar 04 j 16:54	6°♓19'27	1°12'41	
max. Earth dist.	-824 Mar 06 j 09:46	6°♓43'55	5.98254 AU	
morning rise	-824 Mar 18 j 04:23	9°♓32'42		
retrograde	-824 Jul 28 j 06:18	29°♓58'38		
opposition	-824 Sep 25 j 23:29	24°♓53'54	-1°46'38	
min. Earth dist.	-824 Sep 24 j 16:40	25°♓04'23	4.00652 AU	
direct	-824 Nov 22 j 21:48	19°♓57'57		
	-823 Feb 14 j 16:10	0°♈		
evening set	-823 Mar 28 j 16:16	9°♈20'34		
conjunction	-823 Apr 11 j 07:40	12°♈32'31	-1°02'51	
minimum elong	-823 Apr 11 j 07:43	12°♈32'32	1°02'51	
max. Earth dist.	-823 Apr 13 j 10:40	13°♈02'26	6.04592 AU	
morning rise	-823 Apr 25 j 01:33	15°♈45'28		
	-823 Jul 02 j 22:14	0°♉		
retrograde	-823 Sep 01 j 17:49	5°♉28'35		
min. Earth dist.	-823 Oct 29 j 23:41	0°♉34'23	4.10023 AU	
opposition	-823 Oct 31 j 07:08	0°♉23'39	-1°12'08	
	-823 Nov 03 j 04:30	30°℞♈		
direct	-823 Dec 28 j 20:20	25°♈24'33		
	-822 Feb 21 j 18:06	0°♉		
evening set	-822 May 04 j 08:39	14°♉20'28		
	-822 May 07 j 06:21	15°♉		
conjunction	-822 May 18 j 03:21	17°♉28'40	-0°30'19	
minimum elong	-822 May 18 j 03:23	17°♉28'41	0°30'19	
max. Earth dist.	-822 May 19 j 22:25	17°♉53'13	6.16210 AU	
morning rise	-822 May 31 j 22:19	20°♉36'47		
	-822 Jul 14 j 22:06	0°♊		
retrograde	-822 Oct 05 j 04:05	9°♊16'09		
opposition	-822 Dec 03 j 16:37	4°♊13'41	-0°14'29	
min. Earth dist.	-822 Dec 02 j 20:08	4°♊20'36	4.22616 AU	
	-821 Jan 10 j 05:58	30°℞♉		
direct	-821 Feb 01 j 11:14	29°♉11'58		
	-821 Feb 23 j 21:19	0°♊		
asc. node	-821 Mar 07 j 05:36	0°♊58'05		
evening set	-821 Jun 08 j 12:38	17°♊35'54		
conjunction	-821 Jun 22 j 04:32	20°♊37'32	0°11'10	
minimum elong	-821 Jun 22 j 04:31	20°♊37'32	0°11'11	
behind sun begin	-821 Jun 21 j 22:28	20°♊34'11		
behind sun end	-821 Jun 22 j 10:34	20°♊40'52		
max. Earth dist.	-821 Jun 23 j 00:55	20°♊48'51	6.28823 AU	
morning rise	-821 Jul 05 j 18:51	23°♊38'09		

Attention, astronomical year style is used: The year -821 in astronomical counting style is the year 822 BCE in historical counting style.

	-821 Aug 04 j 15:34	0°♋		
retrograde	-821 Nov 05 j 16:53	11°♋18'58		
opposition	-820 Jan 04 j 11:32	6°♋20'18	0°44'29	
min. Earth dist.	-820 Jan 04 j 06:22	6°♋22'01	4.34194 AU	
direct	-820 Mar 05 j 13:09	1°♋17'10		
evening set	-820 Jul 10 j 21:52	19°♋15'03		
conjunction	-820 Jul 24 j 06:28	22°♋09'38	0°47'43	
minimum elong	-820 Jul 24 j 06:25	22°♋09'36	0°47'43	
max. Earth dist.	-820 Jul 24 j 00:21	22°♋06'17	6.38505 AU	
morning rise	-820 Aug 06 j 12:10	25°♋02'42		
	-820 Aug 29 j 21:41	0°♌		
retrograde	-820 Dec 05 j 07:27	12°♌05'46		
opposition	-819 Feb 03 j 09:54	7°♌10'50	1°28'18	
min. Earth dist.	-819 Feb 03 j 22:05	7°♌06'52	4.41424 AU	
direct	-819 Apr 06 j 13:31	2°♌07'42		
	-819 Jul 19 j 18:42	15°♌		
evening set	-819 Aug 11 j 18:30	19°♌50'49		
conjunction	-819 Aug 24 j 18:32	22°♌40'13	1°09'56	
minimum elong	-819 Aug 24 j 18:31	22°♌40'12	1°09'56	
max. Earth dist.	-819 Aug 23 j 12:46	22°♌24'00	6.42666 AU	
morning rise	-819 Sep 06 j 15:37	25°♌28'08		
	-819 Sep 28 j 00:46	0°♍		
retrograde	-818 Jan 04 j 19:33	12°♍19'43		
opposition	-818 Mar 06 j 07:25	7°♍27'13	1°47'18	
min. Earth dist.	-818 Mar 07 j 09:28	7°♍18'51	4.42417 AU	
direct	-818 May 08 j 00:02	2°♍25'08		
evening set	-818 Sep 11 j 17:10	20°♍07'12		
max. Earth dist.	-818 Sep 22 j 16:10	22°♍31'22	6.40312 AU	
conjunction	-818 Sep 24 j 10:47	22°♍54'49	1°12'49	
minimum elong	-818 Sep 24 j 10:48	22°♍54'50	1°12'48	
morning rise	-818 Oct 07 j 01:43	25°♍41'18		
	-818 Oct 27 j 03:42	0°♎		
retrograde	-817 Feb 05 j 02:49	12°♎48'04		
opposition	-817 Apr 06 j 23:24	7°♎56'26	1°37'10	
min. Earth dist.	-817 Apr 08 j 08:26	7°♎45'55	4.36885 AU	
direct	-817 Jun 08 j 12:46	2°♎56'24		
evening set	-817 Oct 12 j 13:15	20°♎51'18		
max. Earth dist.	-817 Oct 23 j 05:19	23°♎14'49	6.31972 AU	
conjunction	-817 Oct 25 j 03:42	23°♎40'55	0°55'19	
minimum elong	-817 Oct 25 j 03:44	23°♎40'56	0°55'18	
morning rise	-817 Nov 06 j 16:58	26°♎30'06		
	-817 Nov 22 j 13:19	0°♏		
retrograde	-816 Mar 09 j 03:17	14°♏17'04		
opposition	-816 May 09 j 02:50	9°♏24'35	0°58'32	
min. Earth dist.	-816 May 10 j 10:12	9°♏14'35	4.26168 AU	
direct	-816 Jul 09 j 21:49	4°♏27'09		
	-816 Oct 07 j 14:19	15°♏		
evening set	-816 Nov 12 j 03:34	22°♏46'51		
max. Earth dist.	-816 Nov 23 j 07:36	25°♏21'20	6.19798 AU	
conjunction	-816 Nov 24 j 18:59	25°♏41'48	0°20'45	
minimum elong	-816 Nov 24 j 19:00	25°♏41'48	0°20'44	
morning rise	-816 Dec 07 j 10:30	28°♏37'04		
	-816 Dec 13 j 11:19	0°♐		
retrograde	-815 Apr 13 j 03:53	17°♐22'46		
desc. node	-815 Jun 07 j 16:32	13°♐09'28		
opposition	-815 Jun 13 j 02:08	12°♐27'52	-0°00'52	
min. Earth dist.	-815 Jun 13 j 20:16	12°♐22'02	4.13317 AU	
direct	-815 Aug 12 j 13:10	7°♐33'01		
evening set	-815 Dec 15 j 08:09	26°♐24'33		
conjunction	-815 Dec 28 j 03:21	29°♐26'22	-0°22'02	
minimum elong	-815 Dec 28 j 03:20	29°♐26'21	0°22'04	
max. Earth dist.	-815 Dec 27 j 13:49	29°♐18'20	6.07431 AU	
	-815 Dec 30 j 12:02	0°♑		
morning rise	-814 Jan 10 j 00:28	2°♑29'23		
retrograde	-814 May 20 j 03:27	22°♑17'03		
opposition	-814 Jul 19 j 16:47	17°♑18'32	-1°03'25	
min. Earth dist.	-814 Jul 19 j 15:29	17°♑18'58	4.02520 AU	
direct	-814 Sep 16 j 19:16	12°♑25'06		
	-813 Jan 12 j 03:16	0°♒		
evening set	-813 Jan 19 j 12:16	1°♒45'13		
conjunction	-813 Feb 01 j 13:56	4°♒53'27	-0°58'22	
minimum elong	-813 Feb 01 j 13:53	4°♒53'25	0°58'22	
max. Earth dist.	-813 Feb 02 j 06:55	5°♒03'40	5.99186 AU	
morning rise	-813 Feb 14 j 18:26	8°♒03'20		
	-813 Mar 16 j 18:58	15°♒		
retrograde	-813 Jun 27 j 00:22	28°♒31'08		
min. Earth dist.	-813 Aug 25 j 05:00	23°♒35'38	3.97853 AU	
opposition	-813 Aug 26 j 01:29	23°♒28'46	-1°44'04	
direct	-813 Oct 23 j 03:56	18°♒34'50		
	-812 Jan 20 j 21:12	0°♓		
evening set	-812 Feb 25 j 08:00	8°♓07'11		
conjunction	-812 Mar 09 j 17:19	11°♓19'12	-1°13'00	
minimum elong	-812 Mar 09 j 17:19	11°♓19'12	1°12'59	
max. Earth dist.	-812 Mar 11 j 10:27	11°♓43'49	5.98412 AU	
morning rise	-812 Mar 23 j 06:02	14°♓32'53		
	-812 Jun 05 j 14:58	0°♈		
retrograde	-812 Aug 02 j 03:05	4°♈56'43		
	-812 Sep 29 j 19:53	30°℞♓		
opposition	-812 Sep 30 j 20:00	29°♓51'47	-1°44'06	
min. Earth dist.	-812 Sep 29 j 12:05	0°♈02'39	4.01184 AU	
direct	-812 Nov 27 j 18:32	24°♓55'24		
	-811 Jan 23 j 21:24	0°♈		
evening set	-811 Apr 02 j 16:46	14°♈16'58		
conjunction	-811 Apr 16 j 09:08	17°♈28'54	-0°59'30	
minimum elong	-811 Apr 16 j 09:11	17°♈28'56	0°59'29	
max. Earth dist.	-811 Apr 18 j 12:22	17°♈58'54	6.05473 AU	
morning rise	-811 Apr 30 j 03:27	20°♈41'41		
	-811 Jun 11 j 09:57	0°♉		
retrograde	-811 Sep 06 j 12:02	10°♉18'45		
opposition	-811 Nov 04 j 23:18	5°♉14'01	-1°05'08	
min. Earth dist.	-811 Nov 03 j 17:31	5°♉24'11	4.11144 AU	
direct	-810 Jan 02 j 16:08	0°♉14'31		
	-810 Apr 20 j 17:46	15°♉		
evening set	-810 May 09 j 07:08	19°♉07'56		
conjunction	-810 May 23 j 01:54	22°♉15'37	-0°24'49	
minimum elong	-810 May 23 j 01:55	22°♉15'39	0°24'49	
max. Earth dist.	-810 May 24 j 19:10	22°♉39'05	6.17495 AU	
morning rise	-810 Jun 05 j 20:43	25°♉23'05		
	-810 Jun 26 j 17:59	0°♊		
retrograde	-810 Oct 09 j 14:34	13°♊55'11		
min. Earth dist.	-810 Dec 07 j 08:21	8°♊59'49	4.23953 AU	
opposition	-810 Dec 08 j 04:08	8°♊53'08	-0°05'58	
asc. node	-809 Jan 15 j 16:46	4°♊35'39		
direct	-809 Feb 06 j 01:33	3°♊51'08		
evening set	-809 Jun 13 j 06:39	22°♊12'13		
conjunction	-809 Jun 26 j 21:47	25°♊12'58	0°16'47	
minimum elong	-809 Jun 26 j 21:45	25°♊12'58	0°16'48	
max. Earth dist.	-809 Jun 27 j 14:50	25°♊22'25	6.30120 AU	
morning rise	-809 Jul 10 j 11:08	28°♊12'38		
	-809 Jul 18 j 15:52	0°♋		
retrograde	-809 Nov 10 j 01:36	15°♋47'30		
opposition	-808 Jan 08 j 20:11	10°♋49'20	0°51'47	
min. Earth dist.	-808 Jan 08 j 17:37	10°♋50'11	4.35342 AU	

Attention, astronomical year style is used: The year -808 in astronomical counting style is the year 809 BCE in historical counting style.

direct	-808 Mar 10 j 02:22	5°♋46'07	
evening set	-808 Jul 15 j 10:40	23°♋41'25	
conjunction	-808 Jul 28 j 18:06	26°♋35'09	0°51'49
minimum elong	-808 Jul 28 j 18:03	26°♋35'08	0°51'50
max. Earth dist.	-808 Jul 28 j 08:53	26°♋30'08	6.39389 AU
morning rise	-808 Aug 10 j 22:34	29°♋27'21	
	-808 Aug 13 j 10:58	0°♌	
	-808 Nov 08 j 23:25	15°♌	
retrograde	-808 Dec 09 j 12:48	16°♌27'08	
	-807 Jan 09 j 01:42	15℞♌	
opposition	-807 Feb 07 j 17:05	11°♌32'31	1°32'34
min. Earth dist.	-807 Feb 08 j 06:42	11°♌28'05	4.41994 AU
direct	-807 Apr 10 j 22:44	6°♌29'24	
	-807 Jul 01 j 18:03	15°♌	
evening set	-807 Aug 16 j 03:09	24°♌11'14	
max. Earth dist.	-807 Aug 27 j 19:07	26°♌43'12	6.42845 AU
conjunction	-807 Aug 29 j 02:09	27°♌00'06	1°11'32
minimum elong	-807 Aug 29 j 02:08	27°♌00'06	1°11'32
morning rise	-807 Sep 10 j 22:03	29°♌47'30	
	-807 Sep 11 j 21:10	0°♍	
retrograde	-806 Jan 09 j 02:17	16°♍39'04	
opposition	-806 Mar 10 j 15:33	11°♍46'46	1°47'38
min. Earth dist.	-806 Mar 11 j 19:06	11°♍37'57	4.42175 AU
direct	-806 May 12 j 09:02	6°♍44'56	
evening set	-806 Sep 15 j 23:43	24°♍27'27	
max. Earth dist.	-806 Sep 26 j 19:22	26°♍50'08	6.39626 AU
conjunction	-806 Sep 28 j 16:33	27°♍15'03	1°11'33
minimum elong	-806 Sep 28 j 16:34	27°♍15'03	1°11'34
morning rise	-806 Oct 11 j 07:09	0°♎01'38	
	-806 Oct 11 j 04:10	0°♎	
retrograde	-805 Feb 09 j 14:20	17°♎12'05	
opposition	-805 Apr 11 j 11:09	12°♎20'24	1°33'23
min. Earth dist.	-805 Apr 12 j 20:58	12°♎09'38	4.35778 AU
direct	-805 Jun 12 j 23:05	7°♎20'40	
evening set	-805 Oct 16 j 20:27	25°♎18'01	
max. Earth dist.	-805 Oct 27 j 14:03	27°♎42'51	6.30531 AU
conjunction	-805 Oct 29 j 10:58	28°♎08'12	0°51'23
minimum elong	-805 Oct 29 j 11:00	28°♎08'14	0°51'22
	-805 Nov 06 j 17:03	0°♏	
morning rise	-805 Nov 11 j 00:10	0°♏58'00	
	-804 Jan 22 j 08:06	15°♏	
retrograde	-804 Mar 13 j 19:34	18°♏51'59	
	-804 May 05 j 19:55	15℞♏	
opposition	-804 May 13 j 19:54	13°♏59'17	0°51'15
min. Earth dist.	-804 May 15 j 01:57	13°♏49'42	4.24474 AU
direct	-804 Jul 14 j 10:40	9°♏02'15	
	-804 Sep 17 j 10:14	15°♏	
evening set	-804 Nov 16 j 15:07	27°♏26'10	
	-804 Nov 27 j 16:53	0°♐	
max. Earth dist.	-804 Nov 27 j 20:39	0°♐02'11	6.17990 AU
conjunction	-804 Nov 29 j 06:45	0°♐21'59	0°15'02
minimum elong	-804 Nov 29 j 06:46	0°♐22'00	0°15'02
behind sun begin	-804 Nov 29 j 03:35	0°♐20'10	
behind sun end	-804 Nov 29 j 09:57	0°♐23'50	
morning rise	-804 Dec 11 j 22:59	3°♐18'19	
retrograde	-803 Apr 18 j 04:22	22°♐13'02	
desc. node	-803 Apr 18 j 02:28	22°♐13'02	
opposition	-803 Jun 18 j 01:19	17°♐17'43	-0°09'53
min. Earth dist.	-803 Jun 18 j 17:33	17°♐12'28	4.11520 AU
direct	-803 Aug 17 j 08:24	12°♐23'07	
	-803 Dec 14 j 10:42	0°♑	
evening set	-803 Dec 20 j 02:01	1°♑19'35	

conjunction	-802 Jan 01 j 22:09	4°♑22'29	-0°27'50
minimum elong	-802 Jan 01 j 22:07	4°♑22'28	0°27'50
max. Earth dist.	-802 Jan 01 j 13:05	4°♑17'06	6.05818 AU
morning rise	-802 Jan 14 j 20:08	7°♑26'37	
retrograde	-802 May 25 j 10:07	27°♑22'23	
opposition	-802 Jul 24 j 20:42	22°♑23'25	-1°10'57
min. Earth dist.	-802 Jul 24 j 16:54	22°♑24'40	4.01272 AU
direct	-802 Sep 21 j 18:29	17°♑30'06	
	-802 Dec 25 j 19:08	0°♒	
evening set	-801 Jan 24 j 13:14	6°♒53'56	
conjunction	-801 Feb 06 j 15:47	10°♒02'58	-1°01'58
minimum elong	-801 Feb 06 j 15:44	10°♒02'56	1°01'59
max. Earth dist.	-801 Feb 07 j 11:24	10°♒14'47	5.98400 AU
morning rise	-801 Feb 19 j 21:36	13°♒13'45	
	-801 Feb 27 j 08:25	15°♒	
	-801 May 13 j 12:17	0°♓	
retrograde	-801 Jul 02 j 05:30	3°♓44'51	
	-801 Aug 21 j 11:51	30℞♒	
min. Earth dist.	-801 Aug 30 j 06:40	28°♒49'55	3.97651 AU
opposition	-801 Aug 31 j 06:06	28°♒42'02	-1°46'43
direct	-801 Oct 28 j 05:48	23°♒47'55	
	-801 Dec 30 j 14:39	0°♓	
evening set	-800 Mar 01 j 13:21	13°♓20'57	
conjunction	-800 Mar 14 j 23:56	16°♓33'20	-1°12'46
minimum elong	-800 Mar 14 j 23:57	16°♓33'20	1°12'45
max. Earth dist.	-800 Mar 16 j 20:59	17°♓00'14	5.98833 AU
morning rise	-800 Mar 28 j 13:30	19°♓47'13	
	-800 May 13 j 07:10	0°♈	
retrograde	-800 Aug 07 j 06:25	10°♈07'14	
opposition	-800 Oct 05 j 20:59	5°♈02'11	-1°40'40
min. Earth dist.	-800 Oct 04 j 13:05	5°♈13'04	4.02199 AU
direct	-800 Dec 02 j 21:46	0°♈05'26	
evening set	-799 Apr 07 j 21:40	19°♈23'51	
conjunction	-799 Apr 21 j 14:40	22°♈35'25	-0°55'37
minimum elong	-799 Apr 21 j 14:43	22°♈35'26	0°55'36
max. Earth dist.	-799 Apr 23 j 18:39	23°♈05'42	6.07009 AU
morning rise	-799 May 05 j 09:29	25°♈47'40	
	-799 May 23 j 21:32	0°♉	
	-799 Aug 29 j 16:41	15°♉	
retrograde	-799 Sep 11 j 05:27	15°♉15'36	
	-799 Sep 23 j 16:35	15℞♉	
min. Earth dist.	-799 Nov 08 j 11:24	10°♉21'22	4.13045 AU
opposition	-799 Nov 09 j 17:34	10°♉11'05	-0°57'33
direct	-798 Jan 07 j 12:51	5°♉11'13	
	-798 Apr 02 j 07:39	15°♉	
evening set	-798 May 14 j 06:46	23°♉59'06	
conjunction	-798 May 28 j 01:13	27°♉05'45	-0°19'07
minimum elong	-798 May 28 j 01:14	27°♉05'46	0°19'06
max. Earth dist.	-798 May 29 j 15:17	27°♉27'17	6.19611 AU
	-798 Jun 09 j 22:06	0°♊	
morning rise	-798 Jun 10 j 19:34	0°♊12'03	
retrograde	-798 Oct 14 j 01:31	18°♊34'06	
asc. node	-798 Nov 26 j 07:52	15°♊40'04	
opposition	-798 Dec 12 j 15:40	13°♊32'29	0°02'31
min. Earth dist.	-798 Dec 11 j 22:38	13°♊38'13	4.26068 AU
direct	-797 Feb 10 j 19:02	8°♊30'12	
evening set	-797 Jun 17 j 22:51	26°♊45'35	
conjunction	-797 Jul 01 j 13:06	29°♊45'08	0°22'13
minimum elong	-797 Jul 01 j 13:05	29°♊45'07	0°22'13
max. Earth dist.	-797 Jul 02 j 03:31	29°♊53'05	6.32066 AU
	-797 Jul 02 j 16:04	0°♋	
morning rise	-797 Jul 15 j 01:11	2°♋43'28	

Attention, astronomical year style is used: The year -797 in astronomical counting style is the year 798 BCE in historical counting style.

retrograde	-797 Nov 14 j 04:53	20°♋10'36		
opposition	-796 Jan 13 j 02:19	15°♋12'54	0°58'33	
min. Earth dist.	-796 Jan 13 j 01:21	15°♋13'14	4.36980 AU	
direct	-796 Mar 14 j 11:50	10°♋09'35		
evening set	-796 Jul 19 j 20:09	28°♋00'53		
	-796 Jul 28 j 23:49	0°♌		
conjunction	-796 Aug 02 j 02:15	0°♌53'35	0°55'30	
minimum elong	-796 Aug 02 j 02:12	0°♌53'34	0°55'31	
max. Earth dist.	-796 Aug 01 j 12:42	0°♌46'13	6.40581 AU	
morning rise	-796 Aug 15 j 05:27	3°♌44'47		
	-796 Oct 11 j 13:12	15°♌		
retrograde	-796 Dec 13 j 16:13	20°♌40'48		
opposition	-795 Feb 11 j 21:19	15°♌46'34	1°36'10	
min. Earth dist.	-795 Feb 12 j 14:17	15°♌41'04	4.42663 AU	
	-795 Feb 17 j 21:25	15℞♌		
direct	-795 Apr 15 j 06:56	10°♌43'30		
	-795 Jun 10 j 02:55	15°♌		
evening set	-795 Aug 20 j 07:51	28°♌23'47		
	-795 Aug 27 j 17:16	0°♍		
max. Earth dist.	-795 Aug 31 j 19:08	0°♍53'17	6.42908 AU	
conjunction	-795 Sep 02 j 05:52	1°♍12'12	1°12'42	
minimum elong	-795 Sep 02 j 05:51	1°♍12'12	1°12'42	
morning rise	-795 Sep 15 j 00:52	3°♍59'13		
retrograde	-794 Jan 13 j 06:03	20°♍51'36		
opposition	-794 Mar 14 j 21:05	15°♍59'25	1°47'24	
min. Earth dist.	-794 Mar 16 j 02:06	15°♍50'07	4.41640 AU	
direct	-794 May 16 j 14:19	10°♍57'42		
evening set	-794 Sep 20 j 03:20	28°♍41'42		
	-794 Sep 26 j 01:46	0°♎		
max. Earth dist.	-794 Sep 30 j 22:11	1°♎04'18	6.38524 AU	
conjunction	-794 Oct 02 j 19:44	1°♎29'30	1°09'56	
minimum elong	-794 Oct 02 j 19:45	1°♎29'31	1°09'56	
morning rise	-794 Oct 15 j 09:47	4°♎16'21		
retrograde	-793 Feb 13 j 23:51	21°♎32'03		
opposition	-793 Apr 15 j 21:16	16°♎40'21	1°29'11	
min. Earth dist.	-793 Apr 17 j 07:56	16°♎29'19	4.34162 AU	
direct	-793 Jun 17 j 07:29	11°♎40'55		
evening set	-793 Oct 21 j 02:50	29°♎42'31		
	-793 Oct 22 j 09:54	0°♏		
max. Earth dist.	-793 Oct 31 j 19:07	2°♏07'21	6.28523 AU	
conjunction	-793 Nov 02 j 17:14	2°♏33'30	0°47'13	
minimum elong	-793 Nov 02 j 17:17	2°♏33'31	0°47'13	
morning rise	-793 Nov 15 j 06:52	5°♏24'16		
	-793 Dec 30 j 15:16	15°♏		
retrograde	-792 Mar 18 j 13:38	23°♏27'23		
opposition	-792 May 18 j 13:21	18°♏34'22	0°43'41	
min. Earth dist.	-792 May 19 j 18:14	18°♏25'08	4.22192 AU	
	-792 Jun 18 j 21:21	15℞♏		
direct	-792 Jul 18 j 23:51	13°♏37'39		
	-792 Aug 17 j 22:04	15°♏		
	-792 Nov 11 j 20:50	0°♐		
evening set	-792 Nov 21 j 03:25	2°♐07'48		
conjunction	-792 Dec 03 j 19:45	5°♐04'51	0°09'14	
minimum elong	-792 Dec 03 j 19:46	5°♐04'52	0°09'13	
behind sun begin	-792 Dec 03 j 12:59	5°♐00'55		
behind sun end	-792 Dec 04 j 02:34	5°♐08'49		
max. Earth dist.	-792 Dec 02 j 13:22	4°♐47'07	6.15650 AU	
morning rise	-792 Dec 16 j 12:36	8°♐02'29		
desc. node	-791 Feb 26 j 17:24	22°♐37'56		
retrograde	-791 Apr 23 j 07:49	27°♐08'09		
opposition	-791 Jun 23 j 02:48	22°♐12'26	-0°18'55	
min. Earth dist.	-791 Jun 23 j 16:38	22°♐07'57	4.09321 AU	
direct	-791 Aug 22 j 04:30	17°♐18'09		
	-791 Nov 27 j 08:47	0°♑		
evening set	-791 Dec 24 j 22:53	6°♑20'54		
conjunction	-790 Jan 06 j 19:43	9°♑24'57	-0°33'30	
minimum elong	-790 Jan 06 j 19:41	9°♑24'56	0°33'30	
max. Earth dist.	-790 Jan 06 j 13:44	9°♑21'23	6.03955 AU	
morning rise	-790 Jan 19 j 18:55	12°♑30'24		
	-790 Apr 19 j 15:14	0°♒		
retrograde	-790 May 30 j 17:35	2°♒34'54		
	-790 Jul 11 j 01:35	30℞♑		
opposition	-790 Jul 30 j 03:24	27°♑35'19	-1°18'02	
min. Earth dist.	-790 Jul 29 j 19:26	27°♑37'57	3.99958 AU	
direct	-790 Sep 26 j 20:18	22°♑42'02		
	-790 Dec 05 j 12:01	0°♒		
evening set	-789 Jan 29 j 17:37	12°♒09'37		
	-789 Feb 10 j 13:08	15°♒		
conjunction	-789 Feb 11 j 21:25	15°♒19'27	-1°05'07	
minimum elong	-789 Feb 11 j 21:23	15°♒19'26	1°05'08	
max. Earth dist.	-789 Feb 12 j 23:14	15°♒35'00	5.97758 AU	
morning rise	-789 Feb 25 j 04:15	18°♒30'59		
	-789 Apr 17 j 19:08	0°♓		
retrograde	-789 Jul 07 j 14:53	9°♓03'58		
min. Earth dist.	-789 Sep 04 j 11:57	4°♓09'06	3.97763 AU	
opposition	-789 Sep 05 j 12:59	4°♓00'39	-1°48'29	
	-789 Oct 10 j 13:52	30℞♒		
direct	-789 Nov 02 j 12:28	29°♒06'15		
	-789 Nov 25 j 09:52	0°♓		
evening set	-788 Mar 06 j 20:58	18°♓38'24		
conjunction	-788 Mar 20 j 08:33	21°♓50'52	-1°11'55	
minimum elong	-788 Mar 20 j 08:34	21°♓50'52	1°11'55	
max. Earth dist.	-788 Mar 22 j 08:27	22°♓19'22	5.99645 AU	
morning rise	-788 Apr 02 j 23:11	25°♓04'47		
	-788 Apr 24 j 05:10	0°♈		
retrograde	-788 Aug 12 j 07:51	15°♈18'44		
opposition	-788 Oct 10 j 22:27	10°♈13'34	-1°36'23	
min. Earth dist.	-788 Oct 09 j 13:02	10°♈24'58	4.03606 AU	
direct	-788 Dec 08 j 00:06	5°♈16'22		
evening set	-787 Apr 13 j 02:58	24°♈30'15		
conjunction	-787 Apr 26 j 20:22	27°♈41'10	-0°51'17	
minimum elong	-787 Apr 26 j 20:25	27°♈41'12	0°51'17	
max. Earth dist.	-787 Apr 28 j 22:40	28°♈10'21	6.08848 AU	
	-787 May 06 j 20:02	0°♉		
morning rise	-787 May 10 j 15:28	0°♉52'40		
	-787 Jul 18 j 21:58	15°♉		
retrograde	-787 Sep 15 j 23:04	20°♉10'37		
min. Earth dist.	-787 Nov 13 j 07:20	15°♉15'58	4.15087 AU	
opposition	-787 Nov 14 j 11:29	15°♉06'22	-0°49'33	
	-787 Nov 15 j 06:10	15℞♉		
direct	-786 Jan 12 j 11:54	10°♉06'05		
	-786 Mar 10 j 21:18	15°♉		
evening set	-786 May 19 j 06:00	28°♉48'21		
	-786 May 24 j 13:46	0°♊		
conjunction	-786 Jun 02 j 00:16	1°♊53'59	-0°13'16	
minimum elong	-786 Jun 02 j 00:17	1°♊54'00	0°13'15	
behind sun begin	-786 Jun 01 j 19:38	1°♊51'23		
behind sun end	-786 Jun 02 j 04:57	1°♊56'36		
max. Earth dist.	-786 Jun 03 j 12:37	2°♊14'27	6.21696 AU	
morning rise	-786 Jun 15 j 17:52	4°♊59'05		
asc. node	-786 Oct 06 j 02:27	22°♊56'35		
retrograde	-786 Oct 18 j 11:04	23°♊11'37		
min. Earth dist.	-786 Dec 16 j 11:15	18°♊15'48	4.28015 AU	
opposition	-786 Dec 17 j 02:45	18°♊10'36	0°11'01	

Attention, astronomical year style is used: The year -785 in astronomical counting style is the year 786 BCE in historical counting style.

direct	-785 Feb 15 j 09:43	13°♊08'09	
	-785 Jun 16 j 14:07	0°♋	
evening set	-785 Jun 22 j 15:18	1°♋18'55	
conjunction	-785 Jul 06 j 04:24	4°♋17'21	0°27'34
minimum elong	-785 Jul 06 j 04:22	4°♋17'20	0°27'35
max. Earth dist.	-785 Jul 06 j 13:16	4°♋22'13	6.33721 AU
morning rise	-785 Jul 19 j 15:26	7°♋14'32	
retrograde	-785 Nov 18 j 11:58	24°♋35'27	
opposition	-784 Jan 17 j 09:44	19°♋38'19	1°05'08
min. Earth dist.	-784 Jan 17 j 12:23	19°♋37'27	4.38243 AU
direct	-784 Mar 19 j 00:29	14°♋34'58	
	-784 Jul 13 j 01:57	0°♌	
evening set	-784 Jul 24 j 06:39	2°♌23'40	
conjunction	-784 Aug 06 j 11:42	5°♌15'37	0°58'59
minimum elong	-784 Aug 06 j 11:39	5°♌15'35	0°58'59
max. Earth dist.	-784 Aug 05 j 19:24	5°♌06'45	6.41350 AU
morning rise	-784 Aug 19 j 13:32	8°♌05'59	
	-784 Sep 21 j 18:49	15°♌	
retrograde	-784 Dec 17 j 20:05	24°♌59'53	
opposition	-783 Feb 16 j 03:49	20°♌06'03	1°39'24
min. Earth dist.	-783 Feb 16 j 22:10	20°♌00'06	4.42927 AU
direct	-783 Apr 19 j 14:27	15°♌03'09	
	-783 Aug 11 j 21:56	0°♍	
evening set	-783 Aug 24 j 15:18	2°♍43'17	
max. Earth dist.	-783 Sep 04 j 23:04	5°♍11'07	6.42638 AU
conjunction	-783 Sep 06 j 12:16	5°♍31'25	1°13'32
minimum elong	-783 Sep 06 j 12:15	5°♍31'25	1°13'32
morning rise	-783 Sep 19 j 06:23	8°♍18'11	
retrograde	-782 Jan 17 j 14:44	25°♍12'32	
opposition	-782 Mar 19 j 06:06	20°♍20'35	1°46'36
min. Earth dist.	-782 Mar 20 j 13:21	20°♍10'36	4.40858 AU
direct	-782 May 21 j 00:25	15°♍19'10	
	-782 Sep 10 j 04:42	0°♎	
evening set	-782 Sep 24 j 10:19	3°♎05'19	
max. Earth dist.	-782 Oct 05 j 02:43	5°♎27'04	6.37279 AU
conjunction	-782 Oct 07 j 02:15	5°♎53'26	1°07'53
minimum elong	-782 Oct 07 j 02:17	5°♎53'27	1°07'53
morning rise	-782 Oct 19 j 16:07	8°♎40'42	
retrograde	-781 Feb 18 j 13:13	26°♎02'16	
opposition	-781 Apr 20 j 11:34	21°♎10'28	1°24'18
min. Earth dist.	-781 Apr 21 j 21:33	20°♎59'39	4.32536 AU
direct	-781 Jun 21 j 18:38	16°♎11'25	
	-781 Oct 06 j 03:44	0°♏	
evening set	-781 Oct 25 j 12:33	4°♏17'08	
max. Earth dist.	-781 Nov 05 j 07:40	6°♏44'09	6.26665 AU
conjunction	-781 Nov 07 j 03:10	7°♏08'55	0°42'37
minimum elong	-781 Nov 07 j 03:12	7°♏08'56	0°42'37
morning rise	-781 Nov 19 j 16:55	10°♏00'33	
	-781 Dec 12 j 05:22	15°♏	
retrograde	-780 Mar 23 j 11:37	28°♏12'22	
opposition	-780 May 23 j 10:35	23°♏19'09	0°35'32
min. Earth dist.	-780 May 24 j 14:16	23°♏10'18	4.20234 AU
direct	-780 Jul 23 j 17:16	18°♏22'53	
	-780 Oct 25 j 15:45	0°♐	
evening set	-780 Nov 25 j 18:57	6°♐58'00	
max. Earth dist.	-780 Dec 07 j 07:16	9°♐39'25	6.13781 AU
conjunction	-780 Dec 08 j 11:40	9°♐56'03	0°03'12
minimum elong	-780 Dec 08 j 11:40	9°♐56'03	0°03'11
behind sun begin	-780 Dec 08 j 03:42	9°♐51'24	
behind sun end	-780 Dec 08 j 19:38	10°♐00'42	
morning rise	-780 Dec 21 j 05:25	12°♐54'51	
desc. node	-779 Jan 06 j 06:31	16°♐36'04	
	-779 Mar 21 j 19:04	0°♑	
retrograde	-779 Apr 28 j 11:46	2°♑09'38	
	-779 Jun 05 j 11:00	30°℞♐	
opposition	-779 Jun 28 j 06:06	27°♐13'24	-0°28'02
min. Earth dist.	-779 Jun 28 j 15:58	27°♐10'11	4.07725 AU
direct	-779 Aug 27 j 02:11	22°♐19'22	
	-779 Nov 07 j 17:17	0°♑	
evening set	-779 Dec 29 j 21:02	11°♑26'10	
conjunction	-778 Jan 11 j 18:50	14°♑31'07	-0°38'58
minimum elong	-778 Jan 11 j 18:48	14°♑31'06	0°38'59
max. Earth dist.	-778 Jan 11 j 18:56	14°♑31'11	6.02799 AU
morning rise	-778 Jan 24 j 18:53	17°♑37'29	
	-778 Mar 22 j 12:31	0°♒	
retrograde	-778 Jun 05 j 02:02	7°♒47'39	
opposition	-778 Aug 04 j 09:42	2°♒47'29	-1°24'30
min. Earth dist.	-778 Aug 03 j 23:28	2°♒50'52	3.99384 AU
	-778 Aug 26 j 20:40	30°℞♑	
direct	-778 Oct 01 j 23:57	27°♑54'10	
	-778 Nov 06 j 16:23	0°♒	
	-777 Jan 24 j 20:35	15°♒	
evening set	-777 Feb 03 j 20:52	17°♒22'41	
conjunction	-777 Feb 17 j 01:36	20°♒32'56	-1°07'44
minimum elong	-777 Feb 17 j 01:34	20°♒32'54	1°07'44
max. Earth dist.	-777 Feb 18 j 07:04	20°♒50'39	5.97794 AU
morning rise	-777 Mar 02 j 09:38	23°♒44'55	
	-777 Mar 29 j 07:20	0°♓	
retrograde	-777 Jul 12 j 18:59	14°♓16'45	
opposition	-777 Sep 10 j 16:36	9°♓13'00	-1°49'18
min. Earth dist.	-777 Sep 09 j 12:52	9°♓22'22	3.98436 AU
direct	-777 Nov 07 j 14:42	4°♓18'16	
evening set	-776 Mar 12 j 01:24	23°♓47'43	
conjunction	-776 Mar 25 j 13:51	27°♓00'01	-1°10'32
minimum elong	-776 Mar 25 j 13:53	27°♓00'02	1°10'31
max. Earth dist.	-776 Mar 27 j 14:31	27°♓28'54	6.00862 AU
	-776 Apr 07 j 06:00	0°♈	
morning rise	-776 Apr 08 j 05:17	0°♈13'41	
retrograde	-776 Aug 17 j 05:01	20°♈20'17	
min. Earth dist.	-776 Oct 14 j 10:53	15°♈26'09	4.05211 AU
opposition	-776 Oct 15 j 19:31	15°♈15'00	-1°31'30
direct	-776 Dec 13 j 00:21	10°♈17'18	
evening set	-775 Apr 18 j 03:57	29°♈26'15	
	-775 Apr 20 j 14:38	0°♉	
conjunction	-775 May 01 j 21:56	2°♉36'34	-0°46'44
minimum elong	-775 May 01 j 21:59	2°♉36'35	0°46'44
max. Earth dist.	-775 May 04 j 00:09	3°♉05'34	6.10709 AU
morning rise	-775 May 15 j 17:03	5°♉47'14	
	-775 Jun 27 j 04:02	15°♉	
retrograde	-775 Sep 20 j 12:40	24°♉55'25	
min. Earth dist.	-775 Nov 17 j 22:29	20°♉00'39	4.17001 AU
opposition	-775 Nov 19 j 01:17	19°♉51'33	-0°41'31
	-774 Jan 07 j 16:42	15°℞♉	
direct	-774 Jan 17 j 05:14	14°♉50'55	
	-774 Jan 26 j 19:40	15°♉	
	-774 May 08 j 07:11	0°♊	
evening set	-774 May 24 j 01:20	3°♊28'12	
conjunction	-774 Jun 06 j 19:03	6°♊32'51	-0°07'32
minimum elong	-774 Jun 06 j 19:04	6°♊32'52	0°07'32
behind sun begin	-774 Jun 06 j 11:31	6°♊28'39	
behind sun end	-774 Jun 07 j 02:37	6°♊37'04	
max. Earth dist.	-774 Jun 08 j 02:15	6°♊50'21	6.23506 AU
morning rise	-774 Jun 20 j 12:12	9°♊36'56	

Attention, astronomical year style is used: The year -774 in astronomical counting style is the year 775 BCE in historical counting style.

asc. node	-774 Aug 17 j 03:23	21°♊18'52		
retrograde	-774 Oct 22 j 18:55	27°♊41'25		
opposition	-774 Dec 21 j 11:11	22°♊40'54	0°19'11	
min. Earth dist.	-774 Dec 20 j 22:47	22°♊45'03	4.29574 AU	
direct	-773 Feb 19 j 23:28	17°♊38'13		
	-773 May 31 j 00:44	0°♋		
evening set	-773 Jun 27 j 04:47	5°♋45'39		
conjunction	-773 Jul 10 j 17:05	8°♋43'12	0°32'38	
minimum elong	-773 Jul 10 j 17:03	8°♋43'11	0°32'39	
max. Earth dist.	-773 Jul 10 j 23:18	8°♋46'36	6.34925 AU	
morning rise	-773 Jul 24 j 02:49	11°♋39'23		
retrograde	-773 Nov 22 j 16:03	28°♋55'43		
opposition	-772 Jan 21 j 15:30	23°♋59'08	1°11'13	
min. Earth dist.	-772 Jan 21 j 19:59	23°♋57'40	4.39036 AU	
direct	-772 Mar 23 j 08:49	18°♋55'49		
	-772 Jun 26 j 07:51	0°♌		
evening set	-772 Jul 28 j 16:06	6°♌43'21		
conjunction	-772 Aug 10 j 19:52	9°♌34'41	1°02'04	
minimum elong	-772 Aug 10 j 19:50	9°♌34'39	1°02'04	
max. Earth dist.	-772 Aug 09 j 22:55	9°♌23'17	6.41667 AU	
morning rise	-772 Aug 23 j 20:44	12°♌24'30		
	-772 Sep 04 j 23:19	15°♌		
retrograde	-772 Dec 22 j 02:55	29°♌17'44		
opposition	-771 Feb 20 j 10:31	24°♌24'16	1°42'04	
min. Earth dist.	-771 Feb 21 j 07:45	24°♌17'24	4.42780 AU	
direct	-771 Apr 23 j 23:51	19°♌21'31		
	-771 Jul 26 j 01:16	0°♍		
evening set	-771 Aug 28 j 22:22	7°♍02'30		
max. Earth dist.	-771 Sep 09 j 04:06	9°♍29'29	6.42033 AU	
conjunction	-771 Sep 10 j 18:39	9°♍50'33	1°13'56	
minimum elong	-771 Sep 10 j 18:39	9°♍50'33	1°13'56	
morning rise	-771 Sep 23 j 11:56	12°♍37'16		
retrograde	-770 Jan 21 j 22:52	29°♍34'37		
opposition	-770 Mar 23 j 16:10	24°♍42'46	1°45'12	
min. Earth dist.	-770 Mar 24 j 23:10	24°♍32'53	4.39857 AU	
direct	-770 May 25 j 08:37	19°♍41'42		
	-770 Aug 24 j 02:20	0°♎		
evening set	-770 Sep 28 j 17:57	7°♎30'21		
max. Earth dist.	-770 Oct 09 j 10:33	9°♎52'42	6.35967 AU	
conjunction	-770 Oct 11 j 09:27	10°♎18'49	1°05'25	
minimum elong	-770 Oct 11 j 09:29	10°♎18'50	1°05'24	
morning rise	-770 Oct 23 j 23:03	13°♎06'31		
	-769 Feb 04 j 01:11	0°♏		
retrograde	-769 Feb 23 j 05:02	0°♏34'03		
	-769 Mar 14 j 08:28	30°℞♎		
opposition	-769 Apr 25 j 03:06	25°♎42'13	1°18'50	
min. Earth dist.	-769 Apr 26 j 13:18	25°♎31'20	4.30981 AU	
direct	-769 Jun 26 j 08:30	20°♎43'34		
	-769 Sep 18 j 08:41	0°♏		
evening set	-769 Oct 29 j 23:02	8°♏52'49		
max. Earth dist.	-769 Nov 09 j 19:03	11°♏20'57	6.25001 AU	
conjunction	-769 Nov 11 j 13:42	11°♏45'19	0°37'42	
minimum elong	-769 Nov 11 j 13:44	11°♏45'20	0°37'42	
morning rise	-769 Nov 24 j 03:54	14°♏37'49		
	-769 Nov 25 j 18:57	15°♏		
	-768 Feb 12 j 18:19	0°♐		
retrograde	-768 Mar 28 j 08:27	2°♐57'31		
	-768 May 12 j 18:47	30°℞♏		
opposition	-768 May 28 j 08:02	28°♏03'55	0°27'06	
min. Earth dist.	-768 May 29 j 08:39	27°♏56'02	4.18567 AU	
direct	-768 Jul 28 j 09:23	23°♏08'01		
	-768 Oct 05 j 22:40	0°♐		

desc. node	-768 Nov 16 j 03:52	8°♐30'03		
evening set	-768 Nov 30 j 10:09	11°♐46'59		
max. Earth dist.	-768 Dec 12 j 03:46	14°♐31'59	6.12256 AU	
conjunction	-768 Dec 13 j 03:29	14°♐45'55	-0°03'00	
minimum elong	-768 Dec 13 j 03:28	14°♐45'55	0°03'00	
behind sun begin	-768 Dec 12 j 19:28	14°♐41'14		
behind sun end	-768 Dec 13 j 11:27	14°♐50'35		
morning rise	-768 Dec 25 j 21:48	17°♐45'39		
	-767 Feb 21 j 06:37	0°♑		
retrograde	-767 May 03 j 16:13	7°♑08'19		
opposition	-767 Jul 03 j 08:36	2°♑11'34	-0°36'54	
min. Earth dist.	-767 Jul 03 j 16:36	2°♑08'58	4.06455 AU	
	-767 Jul 20 j 19:59	30°℞♐		
direct	-767 Sep 01 j 01:04	27°♐17'46		
	-767 Oct 12 j 08:37	0°♑		
evening set	-766 Jan 03 j 18:08	16°♑27'36		
conjunction	-766 Jan 16 j 16:40	19°♑33'18	-0°44'07	
minimum elong	-766 Jan 16 j 16:37	19°♑33'16	0°44'08	
max. Earth dist.	-766 Jan 16 j 20:01	19°♑35'18	6.01882 AU	
morning rise	-766 Jan 29 j 17:48	22°♑40'31		
	-766 Mar 02 j 14:28	0°♒		
retrograde	-766 Jun 10 j 06:09	12°♒55'21		
opposition	-766 Aug 09 j 13:33	7°♒54'41	-1°30'15	
min. Earth dist.	-766 Aug 08 j 23:50	7°♒59'14	3.98947 AU	
direct	-766 Oct 06 j 23:56	3°♒01'20		
	-765 Jan 07 j 09:33	15°♒		
evening set	-765 Feb 08 j 22:46	22°♒30'50		
conjunction	-765 Feb 22 j 04:30	25°♒41'30	-1°09'49	
minimum elong	-765 Feb 22 j 04:28	25°♒41'29	1°09'49	
max. Earth dist.	-765 Feb 23 j 12:47	26°♒00'55	5.97855 AU	
morning rise	-765 Mar 07 j 13:31	28°♒53'54		
	-765 Mar 12 j 04:49	0°♓		
retrograde	-765 Jul 17 j 21:32	19°♓24'43		
opposition	-765 Sep 15 j 17:56	14°♓20'36	-1°49'19	
min. Earth dist.	-765 Sep 14 j 13:28	14°♓30'15	3.98994 AU	
direct	-765 Nov 12 j 16:35	9°♓25'30		
evening set	-764 Mar 17 j 04:28	28°♓53'14		
	-764 Mar 21 j 21:43	0°♈		
conjunction	-764 Mar 30 j 18:01	2°♈05'32	-1°08'39	
minimum elong	-764 Mar 30 j 18:03	2°♈05'33	1°08'39	
max. Earth dist.	-764 Apr 01 j 20:57	2°♈35'40	6.01864 AU	
morning rise	-764 Apr 13 j 10:09	5°♈19'04		
retrograde	-764 Aug 22 j 01:59	25°♈19'16		
min. Earth dist.	-764 Oct 19 j 07:09	20°♈25'06	4.06542 AU	
opposition	-764 Oct 20 j 15:27	20°♈14'05	-1°26'03	
direct	-764 Dec 17 j 22:02	15°♈16'00		
	-763 Apr 03 j 20:54	0°♉		
evening set	-763 Apr 23 j 04:45	4°♉21'22		
conjunction	-763 May 06 j 22:54	7°♉31'07	-0°41'54	
minimum elong	-763 May 06 j 22:57	7°♉31'08	0°41'52	
max. Earth dist.	-763 May 08 j 21:59	7°♉58'12	6.12240 AU	
morning rise	-763 May 20 j 18:17	10°♉41'10		
	-763 Jun 09 j 00:08	15°♉		
retrograde	-763 Sep 25 j 01:52	29°♉41'04		
opposition	-763 Nov 23 j 15:06	24°♉37'33	-0°33'14	
min. Earth dist.	-763 Nov 22 j 14:00	24°♉46'04	4.18573 AU	
direct	-762 Jan 21 j 23:21	19°♉36'31		
	-762 Apr 20 j 11:53	0°♊		
evening set	-762 May 28 j 21:24	8°♊10'13		
conjunction	-762 Jun 11 j 14:50	11°♊14'05	-0°01'42	
minimum elong	-762 Jun 11 j 14:50	11°♊14'05	0°01'42	

Attention, astronomical year style is used: The year -762 in astronomical counting style is the year 763 BCE in historical counting style.

behind sun begin	-762 Jun 11 j 06:29	11°♊09'26		
behind sun end	-762 Jun 11 j 23:11	11°♊18'43		
max. Earth dist.	-762 Jun 12 j 19:43	11°♊30'14	6.25012 AU	
morning rise	-762 Jun 25 j 07:05	14°♊17'10		
asc. node	-762 Jun 27 j 08:43	14°♊44'38		
	-762 Sep 19 j 04:53	0°♋		
retrograde	-762 Oct 27 j 04:30	2°♋14'38		
	-762 Dec 03 j 23:43	30°℞♊		
opposition	-762 Dec 25 j 20:37	27°♊14'43	0°27'19	
min. Earth dist.	-762 Dec 25 j 10:27	27°♊18'07	4.30888 AU	
direct	-761 Feb 24 j 13:01	22°♊11'54		
	-761 May 12 j 01:22	0°♋		
evening set	-761 Jul 01 j 19:53	10°♋16'48		
conjunction	-761 Jul 15 j 07:02	13°♋13'30	0°37'36	
minimum elong	-761 Jul 15 j 07:00	13°♋13'28	0°37'36	
max. Earth dist.	-761 Jul 15 j 08:23	13°♋14'14	6.35939 AU	
morning rise	-761 Jul 28 j 15:46	16°♋08'49		
	-761 Oct 10 j 17:44	0°♌		
retrograde	-761 Nov 26 j 23:25	3°♌21'11		
	-760 Jan 13 j 16:24	30°℞♋		
opposition	-760 Jan 25 j 23:19	28°♋25'06	1°17'02	
min. Earth dist.	-760 Jan 26 j 06:23	28°♋22'47	4.39720 AU	
direct	-760 Mar 27 j 20:07	23°♋21'46		
	-760 Jun 06 j 15:22	0°♌		
evening set	-760 Aug 02 j 02:54	11°♌08'15		
max. Earth dist.	-760 Aug 14 j 07:37	13°♌47'00	6.41981 AU	
conjunction	-760 Aug 15 j 05:42	13°♌59'01	1°04'54	
minimum elong	-760 Aug 15 j 05:40	13°♌59'00	1°04'54	
	-760 Aug 19 j 21:44	15°♌		
morning rise	-760 Aug 28 j 05:12	16°♌48'13		
	-760 Nov 06 j 12:14	0°♍		
retrograde	-760 Dec 26 j 09:17	3°♍40'43		
	-759 Feb 15 j 07:52	30°℞♌		
opposition	-759 Feb 24 j 19:00	28°♌47'35	1°44'16	
min. Earth dist.	-759 Feb 25 j 16:49	28°♌40'34	4.42751 AU	
direct	-759 Apr 28 j 08:50	23°♌45'05		
	-759 Jul 06 j 03:21	0°♍		
evening set	-759 Sep 02 j 07:00	11°♍26'14		
max. Earth dist.	-759 Sep 13 j 09:37	13°♍51'47	6.41669 AU	
conjunction	-759 Sep 15 j 02:14	14°♍14'02	1°13'58	
minimum elong	-759 Sep 15 j 02:14	14°♍14'02	1°13'58	
morning rise	-759 Sep 27 j 18:51	17°♍00'35		
	-759 Dec 05 j 00:32	0°♎		
retrograde	-758 Jan 26 j 10:04	4°♎00'01		
	-758 Mar 21 j 08:13	30°℞♍		
opposition	-758 Mar 28 j 03:29	29°♍08'16	1°43'14	
min. Earth dist.	-758 Mar 29 j 11:49	28°♍57'58	4.39195 AU	
direct	-758 May 29 j 20:32	24°♍07'28		
	-758 Aug 03 j 20:59	0°♎		
evening set	-758 Oct 03 j 01:49	11°♎57'12		
max. Earth dist.	-758 Oct 13 j 18:43	14°♎20'02	6.35065 AU	
conjunction	-758 Oct 15 j 17:02	14°♎45'52	1°02'36	
minimum elong	-758 Oct 15 j 17:04	14°♎45'54	1°02'37	
morning rise	-758 Oct 28 j 06:22	17°♎33'50		
	-758 Dec 30 j 01:02	0°♏		
retrograde	-757 Feb 27 j 18:18	5°♏05'53		
opposition	-757 Apr 29 j 18:24	0°♏13'50	1°12'57	
min. Earth dist.	-757 May 01 j 02:44	0°♏03'33	4.29892 AU	
	-757 May 01 j 13:53	30°℞♎		
direct	-757 Jun 30 j 20:08	25°♎15'33		
	-757 Aug 27 j 18:17	0°♏		
evening set	-757 Nov 03 j 08:29	13°♏26'36		
	-757 Nov 10 j 04:15	15°♏		
max. Earth dist.	-757 Nov 14 j 07:10	15°♏56'40	6.23821 AU	
conjunction	-757 Nov 15 j 23:11	16°♏19'36	0°32'40	
minimum elong	-757 Nov 15 j 23:13	16°♏19'37	0°32'39	
morning rise	-757 Nov 28 j 13:37	19°♏12'43		
	-756 Jan 18 j 16:34	0°♐		
retrograde	-756 Apr 02 j 05:24	7°♐38'38		
opposition	-756 Jun 02 j 03:51	2°♐44'40	0°18'39	
min. Earth dist.	-756 Jun 03 j 03:38	2°♐37'02	4.17349 AU	
	-756 Jun 24 j 20:59	30°℞♏		
direct	-756 Aug 02 j 02:39	27°♏49'03		
	-756 Sep 08 j 18:36	0°♐		
desc. node	-756 Sep 27 j 14:18	2°♐31'42		
evening set	-756 Dec 04 j 23:19	16°♐30'21		
conjunction	-756 Dec 17 j 17:05	19°♐29'57	-0°08'52	
minimum elong	-756 Dec 17 j 17:04	19°♐29'56	0°08'52	
behind sun begin	-756 Dec 17 j 10:08	19°♐25'52		
behind sun end	-756 Dec 18 j 00:01	19°♐34'01		
max. Earth dist.	-756 Dec 16 j 19:37	19°♐17'19	6.11112 AU	
morning rise	-756 Dec 30 j 12:10	22°♐30'29		
	-755 Feb 01 j 17:41	0°♑		
retrograde	-755 May 08 j 14:29	11°♑59'23		
opposition	-755 Jul 08 j 07:25	7°♑02'08	-0°45'15	
min. Earth dist.	-755 Jul 08 j 12:12	7°♑00'34	4.05495 AU	
direct	-755 Sep 05 j 18:49	2°♑08'28		
evening set	-754 Jan 08 j 12:16	21°♑20'33		
conjunction	-754 Jan 21 j 11:35	24°♑26'53	-0°48'47	
minimum elong	-754 Jan 21 j 11:32	24°♑26'51	0°48'47	
max. Earth dist.	-754 Jan 21 j 18:13	24°♑30'52	6.01183 AU	
morning rise	-754 Feb 03 j 13:37	27°♑34'48		
	-754 Feb 13 j 19:26	0°♒		
	-754 May 02 j 19:27	15°♒		
retrograde	-754 Jun 15 j 07:59	17°♒53'31		
	-754 Jul 29 j 01:06	15°℞♒		
opposition	-754 Aug 14 j 13:24	12°♒52'19	-1°35'09	
min. Earth dist.	-754 Aug 13 j 22:20	12°♒57'20	3.98585 AU	
direct	-754 Oct 11 j 22:14	7°♒58'46		
	-754 Dec 18 j 20:25	15°♒		
evening set	-753 Feb 13 j 21:03	27°♒29'18		
	-753 Feb 24 j 08:34	0°♓		
conjunction	-753 Feb 27 j 03:57	0°♓40'27	-1°11'19	
minimum elong	-753 Feb 27 j 03:56	0°♓40'26	1°11'19	
max. Earth dist.	-753 Feb 28 j 15:40	1°♓01'54	5.97865 AU	
morning rise	-753 Mar 12 j 13:59	3°♓53'17		
retrograde	-753 Jul 22 j 21:13	24°♓23'12		
min. Earth dist.	-753 Sep 19 j 10:24	19°♓28'46	3.99397 AU	
opposition	-753 Sep 20 j 15:32	19°♓18'53	-1°48'33	
direct	-753 Nov 17 j 13:01	14°♓23'28		
	-752 Mar 05 j 15:26	0°♈		
evening set	-752 Mar 22 j 04:51	3°♈50'23		
conjunction	-752 Apr 04 j 19:11	7°♈02'45	-1°06'21	
minimum elong	-752 Apr 04 j 19:13	7°♈02'46	1°06'20	
max. Earth dist.	-752 Apr 06 j 20:53	7°♈32'05	6.02613 AU	
morning rise	-752 Apr 18 j 12:16	10°♈16'18		
	-752 Aug 16 j 05:34	0°♉		
retrograde	-752 Aug 26 j 19:05	0°♉11'12		
	-752 Sep 06 j 08:31	30°℞♈		
min. Earth dist.	-752 Oct 24 j 00:23	25°♈17'04	4.07557 AU	
opposition	-752 Oct 25 j 08:29	25°♈06'06	-1°20'12	
direct	-752 Dec 22 j 17:10	20°♈07'35		
	-751 Mar 16 j 21:36	0°♉		
evening set	-751 Apr 28 j 03:37	9°♉10'47		

Attention, astronomical year style is used: The year -751 in astronomical counting style is the year 752 BCE in historical counting style.

conjunction	-751 May 11 j 22:16	12°♉20'11	-0°36'52
minimum elong	-751 May 11 j 22:19	12°♉20'12	0°36'51
max. Earth dist.	-751 May 13 j 20:22	12°♉46'38	6.13472 AU
	-751 May 23 j 13:25	15°♉	
morning rise	-751 May 25 j 17:34	15°♉29'41	
	-751 Aug 06 j 17:11	0°♊	
retrograde	-751 Sep 29 j 16:00	4°♊22'28	
	-751 Nov 23 j 03:33	30°℞♉	
min. Earth dist.	-751 Nov 27 j 04:34	29°♉27'15	4.19886 AU
opposition	-751 Nov 28 j 03:43	29°♉19'25	-0°24'55
direct	-750 Jan 26 j 16:05	24°♉18'07	
	-750 Mar 30 j 14:09	0°♊	
asc. node	-750 May 08 j 02:53	7°♊17'04	
evening set	-750 Jun 02 j 16:24	12°♊49'01	
conjunction	-750 Jun 16 j 09:16	15°♊52'07	0°04'10
minimum elong	-750 Jun 16 j 09:15	15°♊52'07	0°04'11
behind sun begin	-750 Jun 16 j 01:04	15°♊47'34	
behind sun end	-750 Jun 16 j 17:27	15°♊56'39	
max. Earth dist.	-750 Jun 17 j 10:48	16°♊06'21	6.26312 AU
morning rise	-750 Jun 30 j 00:54	18°♊54'21	
	-750 Aug 23 j 13:56	0°♋	
retrograde	-750 Oct 31 j 12:24	6°♋45'36	
opposition	-750 Dec 30 j 05:41	1°♋46'10	0°35'11
min. Earth dist.	-750 Dec 29 j 21:00	1°♋49'03	4.32082 AU
	-749 Jan 12 j 19:34	30°℞♊	
direct	-749 Mar 01 j 01:30	26°♊43'11	
	-749 Apr 17 j 15:52	0°♋	
evening set	-749 Jul 06 j 10:01	14°♋45'39	
conjunction	-749 Jul 19 j 20:10	17°♋41'30	0°42'17
minimum elong	-749 Jul 19 j 20:07	17°♋41'28	0°42'17
max. Earth dist.	-749 Jul 19 j 19:21	17°♋41'03	6.36944 AU
morning rise	-749 Aug 02 j 03:32	20°♋35'53	
	-749 Sep 17 j 08:53	0°♌	
retrograde	-749 Dec 01 j 05:46	7°♌44'15	
opposition	-748 Jan 30 j 06:36	2°♌48'39	1°22'20
min. Earth dist.	-748 Jan 30 j 15:31	2°♌45'44	4.40462 AU
	-748 Feb 22 j 03:11	30°℞♋	
direct	-748 Apr 01 j 06:23	27°♋45'23	
	-748 May 10 j 18:19	0°♌	
	-748 Aug 04 j 04:30	15°♌	
evening set	-748 Aug 06 j 12:41	15°♌30'16	
conjunction	-748 Aug 19 j 14:12	18°♌20'23	1°07'19
minimum elong	-748 Aug 19 j 14:10	18°♌20'22	1°07'20
max. Earth dist.	-748 Aug 18 j 12:14	18°♌06'16	6.42367 AU
morning rise	-748 Sep 01 j 12:43	21°♌08'59	
	-748 Oct 15 j 00:39	0°♍	
retrograde	-748 Dec 30 j 16:25	8°♍00'34	
opposition	-747 Mar 01 j 02:44	3°♍07'41	1°45'50
min. Earth dist.	-747 Mar 02 j 02:35	3°♍00'00	4.42749 AU
	-747 Mar 27 j 10:22	30°℞♌	
direct	-747 May 02 j 18:10	28°♌05'18	
	-747 Jun 08 j 06:36	0°♍	
evening set	-747 Sep 06 j 13:43	15°♍46'22	
max. Earth dist.	-747 Sep 17 j 15:33	18°♍11'39	6.41247 AU
conjunction	-747 Sep 19 j 08:19	18°♍34'01	1°13'36
minimum elong	-747 Sep 19 j 08:19	18°♍34'01	1°13'35
morning rise	-747 Oct 02 j 00:04	21°♍20'26	
	-747 Nov 13 j 01:25	0°♎	
retrograde	-746 Jan 30 j 18:27	8°♎22'25	
opposition	-746 Apr 01 j 13:53	3°♎30'44	1°40'41
min. Earth dist.	-746 Apr 02 j 22:13	3°♎20'26	4.38357 AU
	-746 May 02 j 05:45	30°℞♍	
direct	-746 Jun 03 j 05:02	28°♍30'17	
	-746 Jul 05 j 05:42	0°♎	
evening set	-746 Oct 07 j 08:36	16°♎21'46	
max. Earth dist.	-746 Oct 18 j 00:24	18°♎44'28	6.33856 AU
conjunction	-746 Oct 19 j 23:21	19°♎10'46	0°59'27
minimum elong	-746 Oct 19 j 23:23	19°♎10'47	0°59'26
morning rise	-746 Nov 01 j 12:40	21°♎59'12	
	-746 Dec 09 j 06:44	0°♏	
retrograde	-745 Mar 04 j 10:32	9°♏37'14	
opposition	-745 May 04 j 09:44	4°♏45'02	1°06'37
min. Earth dist.	-745 May 05 j 18:29	4°♏34'36	4.28357 AU
	-745 Jun 23 j 13:30	30°℞♎	
direct	-745 Jul 05 j 09:15	29°♎47'05	
	-745 Jul 17 j 04:45	0°♏	
	-745 Oct 25 j 07:35	15°♏	
evening set	-745 Nov 07 j 18:12	18°♏01'44	
max. Earth dist.	-745 Nov 18 j 18:44	20°♏33'26	6.22094 AU
conjunction	-745 Nov 20 j 09:14	20°♏55'35	0°27'22
minimum elong	-745 Nov 20 j 09:15	20°♏55'36	0°27'22
morning rise	-745 Dec 03 j 00:04	23°♏49'36	
	-745 Dec 30 j 18:52	0°♐	
retrograde	-744 Apr 07 j 02:00	12°♐23'59	
opposition	-744 Jun 07 j 01:00	7°♐29'38	0°09'55
min. Earth dist.	-744 Jun 07 j 22:10	7°♐22'50	4.15555 AU
direct	-744 Aug 06 j 18:03	2°♐34'22	
desc. node	-744 Aug 08 j 01:24	2°♐34'32	
evening set	-744 Dec 09 j 14:51	21°♐20'21	
conjunction	-744 Dec 22 j 09:12	24°♐20'57	-0°14'49
minimum elong	-744 Dec 22 j 09:11	24°♐20'56	0°14'50
behind sun begin	-744 Dec 22 j 05:47	24°♐18'56	
behind sun end	-744 Dec 22 j 12:35	24°♐22'56	
max. Earth dist.	-744 Dec 21 j 14:51	24°♐10'06	6.09404 AU
morning rise	-743 Jan 04 j 05:08	27°♐22'36	
	-743 Jan 15 j 11:34	0°♑	
retrograde	-743 May 13 j 19:06	17°♑00'15	
opposition	-743 Jul 13 j 10:04	12°♑02'27	-0°53'35
min. Earth dist.	-743 Jul 13 j 12:44	12°♑01'35	4.04022 AU
direct	-743 Sep 10 j 18:11	7°♑08'54	
evening set	-742 Jan 13 j 10:45	26°♑25'09	
conjunction	-742 Jan 26 j 11:07	29°♑32'26	-0°53'17
minimum elong	-742 Jan 26 j 11:05	29°♑32'24	0°53'17
max. Earth dist.	-742 Jan 26 j 22:32	29°♑39'17	6.00084 AU
	-742 Jan 28 j 09:01	0°♒	
morning rise	-742 Feb 08 j 14:12	2°♒41'18	
	-742 Apr 05 j 16:12	15°♒	
retrograde	-742 Jun 20 j 15:02	23°♒05'06	
opposition	-742 Aug 19 j 18:04	18°♒03'26	-1°39'33
min. Earth dist.	-742 Aug 19 j 00:33	18°♒09'17	3.98020 AU
	-742 Sep 13 j 12:40	15°℞♒	
direct	-742 Oct 16 j 23:20	13°♒09'48	
	-742 Nov 19 j 04:09	15°♒	
	-741 Feb 07 j 15:22	0°♓	
evening set	-741 Feb 19 j 01:19	2°♓42'04	
conjunction	-741 Mar 04 j 09:11	5°♓53'41	-1°12'20
minimum elong	-741 Mar 04 j 09:11	5°♓53'41	1°12'20
max. Earth dist.	-741 Mar 05 j 22:46	6°♓16'14	5.97865 AU
morning rise	-741 Mar 17 j 20:29	9°♓07'02	
retrograde	-741 Jul 27 j 23:28	29°♓35'26	
min. Earth dist.	-741 Sep 24 j 10:44	24°♓41'23	3.99996 AU
opposition	-741 Sep 25 j 17:47	24°♓30'49	-1°46'55
direct	-741 Nov 22 j 15:17	19°♓35'02	
	-740 Feb 16 j 04:13	0°♈	
evening set	-740 Mar 27 j 10:12	9°♈00'07	

Attention, astronomical year style is used: The year -740 in astronomical counting style is the year 741 BCE in historical counting style.

conjunction	-740 Apr 10 j 01:34	12°♈12'23	-1°03'27
minimum elong	-740 Apr 10 j 01:37	12°♈12'25	1°03'27
max. Earth dist.	-740 Apr 12 j 05:24	12°♈42'53	6.03787 AU
morning rise	-740 Apr 23 j 19:10	15°♈25'39	
	-740 Jul 03 j 11:49	0°♉	
retrograde	-740 Aug 31 j 17:22	5°♉12'57	
min. Earth dist.	-740 Oct 28 j 21:59	0°♉18'38	4.09180 AU
opposition	-740 Oct 30 j 05:14	0°♉07'58	-1°13'34
	-740 Oct 31 j 04:35	30°℞♈	
direct	-740 Dec 27 j 17:48	25°♈09'03	
	-739 Feb 22 j 05:06	0°♉	
evening set	-739 May 03 j 05:19	14°♉07'22	
	-739 May 07 j 01:51	15°♉	
conjunction	-739 May 16 j 23:59	17°♉15'55	-0°31'30
minimum elong	-739 May 17 j 00:01	17°♉15'57	0°31'29
max. Earth dist.	-739 May 18 j 20:49	17°♉41'31	6.15418 AU
morning rise	-739 May 30 j 19:09	20°♉24'27	
	-739 Jul 14 j 18:16	0°♊	
retrograde	-739 Oct 04 j 03:42	9°♊07'10	
opposition	-739 Dec 02 j 17:18	4°♊04'28	-0°16'23
min. Earth dist.	-739 Dec 01 j 18:42	4°♊12'07	4.21973 AU
	-738 Jan 07 j 04:47	30°℞♉	
direct	-738 Jan 31 j 09:23	29°♉02'51	
	-738 Feb 24 j 22:20	0°♊	
asc. node	-738 Mar 18 j 15:56	2°♊15'39	
evening set	-738 Jun 07 j 11:22	17°♊28'00	
conjunction	-738 Jun 21 j 03:26	20°♊29'53	0°09'51
minimum elong	-738 Jun 21 j 03:25	20°♊29'52	0°09'52
behind sun begin	-738 Jun 20 j 20:44	20°♊26'11	
behind sun end	-738 Jun 21 j 10:05	20°♊33'34	
max. Earth dist.	-738 Jun 22 j 01:33	20°♊42'10	6.28382 AU
morning rise	-738 Jul 04 j 17:59	23°♊30'46	
	-738 Aug 04 j 04:46	0°♋	
retrograde	-738 Nov 04 j 19:36	11°♋13'14	
opposition	-737 Jan 03 j 13:30	6°♋14'18	0°42'41
min. Earth dist.	-737 Jan 03 j 07:47	6°♋16'12	4.33958 AU
direct	-737 Mar 05 j 14:49	1°♋11'10	
evening set	-737 Jul 10 j 21:35	19°♋08'49	
conjunction	-737 Jul 24 j 06:30	22°♋03'32	0°46'36
minimum elong	-737 Jul 24 j 06:27	22°♋03'30	0°46'36
max. Earth dist.	-737 Jul 24 j 01:41	22°♋00'54	6.38460 AU
morning rise	-737 Aug 06 j 12:36	24°♋56'45	
	-737 Aug 30 j 10:00	0°♌	
retrograde	-737 Dec 05 j 08:07	11°♌59'52	
opposition	-736 Feb 03 j 11:09	7°♌04'37	1°26'58
min. Earth dist.	-736 Feb 03 j 22:11	7°♌01'01	4.41534 AU
direct	-736 Apr 05 j 13:37	2°♌01'20	
	-736 Jul 19 j 08:26	15°♌	
evening set	-736 Aug 10 j 18:30	19°♌43'36	
conjunction	-736 Aug 23 j 18:56	22°♌33'02	1°09'17
minimum elong	-736 Aug 23 j 18:54	22°♌33'01	1°09'17
max. Earth dist.	-736 Aug 22 j 14:43	22°♌17'41	6.42896 AU
morning rise	-736 Sep 05 j 16:12	25°♌20'58	
	-736 Sep 27 j 15:49	0°♍	
retrograde	-735 Jan 03 j 19:24	12°♍11'34	
opposition	-735 Mar 05 j 07:14	7°♍18'57	1°46'47
min. Earth dist.	-735 Mar 06 j 09:15	7°♍10'36	4.42702 AU
direct	-735 May 07 j 00:00	2°♍16'44	
evening set	-735 Sep 10 j 17:08	19°♍57'59	
max. Earth dist.	-735 Sep 21 j 14:28	22°♍21'09	6.40598 AU
conjunction	-735 Sep 23 j 10:52	22°♍45'34	1°12'49
minimum elong	-735 Sep 23 j 10:53	22°♍45'34	1°12'50
morning rise	-735 Oct 06 j 02:13	25°♍32'03	
	-735 Oct 26 j 22:19	0°♎	
retrograde	-734 Feb 04 j 02:18	12°♎37'36	
opposition	-734 Apr 05 j 21:42	7°♎45'55	1°37'41
min. Earth dist.	-734 Apr 07 j 07:40	7°♎35'06	4.37136 AU
direct	-734 Jun 07 j 11:43	2°♎45'40	
evening set	-734 Oct 11 j 13:00	20°♎40'23	
max. Earth dist.	-734 Oct 22 j 05:20	23°♎03'54	6.32158 AU
conjunction	-734 Oct 24 j 03:49	23°♎30'02	0°56'02
minimum elong	-734 Oct 24 j 03:51	23°♎30'03	0°56'01
morning rise	-734 Nov 05 j 17:02	26°♎19'09	
	-734 Nov 22 j 09:57	0°♏	
retrograde	-733 Mar 09 j 00:19	14°♏05'01	
opposition	-733 May 08 j 23:53	9°♏12'38	1°00'02
min. Earth dist.	-733 May 10 j 07:46	9°♏02'29	4.26278 AU
direct	-733 Jul 09 j 18:52	4°♏15'04	
	-733 Oct 08 j 12:43	15°♏	
evening set	-733 Nov 12 j 03:37	22°♏35'24	
max. Earth dist.	-733 Nov 23 j 05:22	25°♏08'35	6.19806 AU
conjunction	-733 Nov 24 j 18:54	25°♏30'18	0°21'58
minimum elong	-733 Nov 24 j 18:56	25°♏30'19	0°21'58
morning rise	-733 Dec 07 j 10:28	28°♏25'35	
	-733 Dec 14 j 07:30	0°♐	
retrograde	-732 Apr 12 j 02:08	17°♐10'46	
opposition	-732 Jun 11 j 23:16	12°♐16'01	0°01'08
min. Earth dist.	-732 Jun 12 j 18:44	12°♐09'45	4.13215 AU
desc. node	-732 Jun 19 j 00:37	11°♐21'44	
direct	-732 Aug 11 j 11:45	7°♐21'03	
evening set	-732 Dec 14 j 08:11	26°♐13'49	
conjunction	-732 Dec 27 j 03:28	29°♐15'43	-0°20'43
minimum elong	-732 Dec 27 j 03:26	29°♐15'43	0°20'43
max. Earth dist.	-732 Dec 26 j 13:36	29°♐07'30	6.07242 AU
	-732 Dec 30 j 06:03	0°♑	
morning rise	-731 Jan 09 j 00:20	2°♑18'45	
retrograde	-731 May 19 j 02:41	22°♑06'37	
opposition	-731 Jul 18 j 14:58	17°♑08'22	-1°01'38
min. Earth dist.	-731 Jul 18 j 14:27	17°♑08'32	4.02271 AU
direct	-731 Sep 15 j 17:35	12°♑15'00	
	-730 Jan 11 j 18:31	0°♒	
evening set	-730 Jan 18 j 12:45	1°♒36'32	
conjunction	-730 Jan 31 j 14:03	4°♒44'48	-0°57'24
minimum elong	-730 Jan 31 j 14:01	4°♒44'46	0°57'24
max. Earth dist.	-730 Feb 01 j 05:04	4°♒53'50	5.98892 AU
morning rise	-730 Feb 13 j 18:29	7°♒54'46	
	-730 Mar 16 j 09:49	15°♒	
retrograde	-730 Jun 25 j 23:07	28°♒23'32	
min. Earth dist.	-730 Aug 24 j 04:15	23°♒28'22	3.97539 AU
opposition	-730 Aug 25 j 01:20	23°♒21'18	-1°43'10
direct	-730 Oct 22 j 03:23	18°♒27'29	
	-729 Jan 20 j 10:09	0°♓	
evening set	-729 Feb 24 j 08:25	8°♓00'55	
conjunction	-729 Mar 09 j 17:37	11°♓12'59	-1°12'45
minimum elong	-729 Mar 09 j 17:37	11°♓12'59	1°12'44
max. Earth dist.	-729 Mar 11 j 12:23	11°♓38'37	5.98131 AU
morning rise	-729 Mar 23 j 05:51	14°♓26'38	
	-729 Jun 06 j 04:40	0°♈	
retrograde	-729 Aug 02 j 05:41	4°♈51'49	
	-729 Sep 29 j 07:22	30°℞♓	
opposition	-729 Sep 30 j 21:47	29°♓46'55	-1°44'21
min. Earth dist.	-729 Sep 29 j 14:14	29°♓57'40	4.00956 AU
direct	-729 Nov 27 j 21:02	24°♓50'43	
	-728 Jan 24 j 09:55	0°♈	

Attention, astronomical year style is used: The year -728 in astronomical counting style is the year 729 BCE in historical counting style.

evening set	-728 Apr 01 j 17:09	14°♈12'28		
conjunction	-728 Apr 15 j 09:13	17°♈24'21	-1°00'01	
minimum elong	-728 Apr 15 j 09:16	17°♈24'23	1°00'00	
max. Earth dist.	-728 Apr 17 j 13:44	17°♈55'07	6.05312 AU	
morning rise	-728 Apr 29 j 03:27	20°♈37'09		
	-728 Jun 10 j 18:22	0°♉		
retrograde	-728 Sep 05 j 13:10	10°♉15'14		
min. Earth dist.	-728 Nov 02 j 18:15	5°♉21'11	4.11074 AU	
opposition	-728 Nov 04 j 01:51	5°♉10'25	-1°06'20	
direct	-727 Jan 01 j 16:55	0°♉11'04		
	-727 Apr 20 j 01:21	15°♉		
evening set	-727 May 08 j 07:17	19°♉03'55		
conjunction	-727 May 22 j 01:51	22°♉11'32	-0°25'51	
minimum elong	-727 May 22 j 01:53	22°♉11'33	0°25'51	
max. Earth dist.	-727 May 23 j 19:23	22°♉35'08	6.17508 AU	
morning rise	-727 Jun 04 j 20:41	25°♉18'58		
	-727 Jun 26 j 01:35	0°♊		
retrograde	-727 Oct 08 j 17:18	13°♊51'37		
min. Earth dist.	-727 Dec 06 j 11:15	8°♊56'02	4.24033 AU	
opposition	-727 Dec 07 j 06:54	8°♊49'24	-0°07'42	
asc. node	-726 Jan 26 j 04:56	3°♊57'16		
direct	-726 Feb 05 j 04:38	3°♊47'29		
evening set	-726 Jun 12 j 06:09	22°♊07'25		
conjunction	-726 Jun 25 j 21:30	25°♊08'11	0°15'33	
minimum elong	-726 Jun 25 j 21:29	25°♊08'11	0°15'34	
behind sun begin	-726 Jun 25 j 20:07	25°♊07'25		
behind sun end	-726 Jun 25 j 22:51	25°♊08'56		
max. Earth dist.	-726 Jun 26 j 16:36	25°♊18'45	6.30251 AU	
morning rise	-726 Jul 09 j 10:58	28°♊07'51		
	-726 Jul 18 j 00:37	0°♋		
retrograde	-726 Nov 09 j 01:48	15°♋42'47		
opposition	-725 Jan 07 j 22:01	10°♋44'25	0°50'03	
min. Earth dist.	-725 Jan 07 j 18:00	10°♋45'45	4.35511 AU	
direct	-725 Mar 10 j 02:19	5°♋41'13		
evening set	-725 Jul 15 j 10:11	23°♋35'26		
conjunction	-725 Jul 28 j 17:49	26°♋29'11	0°50'46	
minimum elong	-725 Jul 28 j 17:47	26°♋29'09	0°50'47	
max. Earth dist.	-725 Jul 28 j 08:36	26°♋24'09	6.39582 AU	
morning rise	-725 Aug 10 j 22:40	29°♋21'26		
	-725 Aug 13 j 22:06	0°♌		
	-725 Nov 10 j 03:42	15°♌		
retrograde	-725 Dec 09 j 14:28	16°♌20'54		
	-724 Jan 07 j 22:38	15°℞♌		
opposition	-724 Feb 07 j 17:53	11°♌26'09	1°31'20	
min. Earth dist.	-724 Feb 08 j 08:13	11°♌21'29	4.42172 AU	
direct	-724 Apr 10 j 00:17	6°♌22'58		
	-724 Jul 01 j 08:34	15°♌		
evening set	-724 Aug 15 j 02:50	24°♌04'06		
max. Earth dist.	-724 Aug 26 j 18:22	26°♌35'45	6.42984 AU	
conjunction	-724 Aug 28 j 02:12	26°♌53'04	1°10'59	
minimum elong	-724 Aug 28 j 02:11	26°♌53'04	1°10'58	
morning rise	-724 Sep 09 j 22:31	29°♌40'34		
	-724 Sep 11 j 10:28	0°♍		
retrograde	-723 Jan 08 j 01:57	16°♍31'44		
opposition	-723 Mar 09 j 15:17	11°♍39'18	1°47'16	
min. Earth dist.	-723 Mar 10 j 18:42	11°♍30'30	4.42265 AU	
direct	-723 May 11 j 08:01	6°♍37'16		
evening set	-723 Sep 14 j 23:55	24°♍19'51		
max. Earth dist.	-723 Sep 25 j 20:36	26°♍42'59	6.39665 AU	
conjunction	-723 Sep 27 j 17:09	27°♍07'33	1°11'39	
minimum elong	-723 Sep 27 j 17:10	27°♍07'34	1°11'39	
morning rise	-723 Oct 10 j 07:51	29°♍54'11		
	-723 Oct 10 j 18:28	0°♎		
retrograde	-722 Feb 08 j 13:56	17°♎04'17		
opposition	-722 Apr 10 j 10:12	12°♎12'38	1°34'01	
min. Earth dist.	-722 Apr 11 j 20:44	12°♎01'39	4.35761 AU	
direct	-722 Jun 11 j 22:43	7°♎12'45		
evening set	-722 Oct 15 j 21:40	25°♎10'51		
max. Earth dist.	-722 Oct 26 j 12:50	27°♎34'23	6.30447 AU	
conjunction	-722 Oct 28 j 12:13	28°♎01'07	0°52'08	
minimum elong	-722 Oct 28 j 12:15	28°♎01'09	0°52'07	
	-722 Nov 06 j 06:57	0°♏		
morning rise	-722 Nov 10 j 01:43	0°♏51'02		
	-721 Jan 22 j 05:09	15°♏		
retrograde	-721 Mar 13 j 19:31	18°♏44'50		
	-721 May 04 j 20:11	15°℞♏		
opposition	-721 May 13 j 18:51	13°♏52'11	0°52'43	
min. Earth dist.	-721 May 15 j 01:34	13°♏42'23	4.24339 AU	
direct	-721 Jul 14 j 10:17	8°♏54'58		
	-721 Sep 18 j 03:01	15°♏		
evening set	-721 Nov 16 j 17:03	27°♏20'12		
max. Earth dist.	-721 Nov 27 j 23:07	29°♏56'31	6.17838 AU	
	-721 Nov 28 j 05:07	0°♐		
conjunction	-721 Nov 29 j 08:55	0°♐16'08	0°16'12	
minimum elong	-721 Nov 29 j 08:55	0°♐16'09	0°16'11	
behind sun begin	-721 Nov 29 j 07:59	0°♐15'36		
behind sun end	-721 Nov 29 j 09:52	0°♐16'42		
morning rise	-721 Dec 12 j 00:56	3°♐12'29		
retrograde	-720 Apr 17 j 04:50	22°♐07'02		
desc. node	-720 Apr 28 j 11:53	21°♐55'02		
opposition	-720 Jun 17 j 01:00	17°♐11'55	-0°08'01	
min. Earth dist.	-720 Jun 17 j 17:52	17°♐06'29	4.11397 AU	
direct	-720 Aug 16 j 08:38	12°♐17'19		
	-720 Dec 13 j 21:28	0°♑		
evening set	-720 Dec 19 j 04:29	1°♑14'44		
conjunction	-719 Jan 01 j 00:20	4°♑17'35	-0°26'37	
minimum elong	-719 Jan 01 j 00:18	4°♑17'34	0°26'38	
max. Earth dist.	-720 Dec 31 j 13:36	4°♑11'12	6.05746 AU	
morning rise	-719 Jan 13 j 22:18	7°♑21'42		
retrograde	-719 May 24 j 09:15	27°♑16'59		
opposition	-719 Jul 23 j 21:04	22°♑18'05	-1°09'19	
min. Earth dist.	-719 Jul 23 j 16:35	22°♑19'34	4.01272 AU	
direct	-719 Sep 20 j 19:19	17°♑24'46		
	-719 Dec 25 j 06:34	0°♒		
evening set	-718 Jan 23 j 15:00	6°♒48'35		
conjunction	-718 Feb 05 j 17:25	9°♒57'29	-1°01'06	
minimum elong	-718 Feb 05 j 17:23	9°♒57'27	1°01'08	
max. Earth dist.	-718 Feb 06 j 14:32	10°♒10'11	5.98486 AU	
morning rise	-718 Feb 18 j 22:44	13°♒08'02		
	-718 Feb 26 j 19:19	15°♒		
	-718 May 13 j 06:39	0°♓		
retrograde	-718 Jul 01 j 06:35	3°♓38'11		
	-718 Aug 19 j 15:41	30°℞♒		
min. Earth dist.	-718 Aug 29 j 08:14	28°♒43'02	3.97796 AU	
opposition	-718 Aug 30 j 06:50	28°♒35'26	-1°45'55	
direct	-718 Oct 27 j 08:24	23°♒41'22		
	-718 Dec 30 j 07:27	0°♓		
evening set	-717 Mar 01 j 13:32	13°♓13'18		
conjunction	-717 Mar 14 j 23:38	16°♓25'24	-1°12'36	
minimum elong	-717 Mar 14 j 23:38	16°♓25'24	1°12'36	
max. Earth dist.	-717 Mar 16 j 20:37	16°♓52'15	5.98990 AU	
morning rise	-717 Mar 28 j 12:56	19°♓39'03		
	-717 May 13 j 23:03	0°♈		

Attention, astronomical year style is used: The year -717 in astronomical counting style is the year 718 BCE in historical counting style.

retrograde	-717 Aug 07 j 05:14	9°♈58'26		
opposition	-717 Oct 05 j 21:32	4°♈53'22	-1°41'02	
min. Earth dist.	-717 Oct 04 j 12:32	5°♈04'36	4.02334 AU	
	-717 Nov 27 j 06:30	30°℞♓		
direct	-717 Dec 02 j 21:28	29°♓56'42		
	-717 Dec 08 j 12:41	0°♈		
evening set	-716 Apr 06 j 20:11	19°♈14'00		
conjunction	-716 Apr 20 j 12:48	22°♈25'22	-0°56'14	
minimum elong	-716 Apr 20 j 12:51	22°♈25'23	0°56'14	
max. Earth dist.	-716 Apr 22 j 15:52	22°♈55'09	6.07066 AU	
morning rise	-716 May 04 j 07:25	25°♈37'29		
	-716 May 23 j 13:42	0°♉		
	-716 Sep 02 j 11:05	15°♉		
retrograde	-716 Sep 10 j 05:53	15°♉06'05		
	-716 Sep 17 j 23:28	15°℞♉		
opposition	-716 Nov 08 j 18:21	10°♉01'27	-0°58'55	
min. Earth dist.	-716 Nov 07 j 12:55	10°♉11'30	4.12991 AU	
direct	-715 Jan 06 j 14:09	5°♉01'40		
	-715 Apr 02 j 02:09	15°♉		
evening set	-715 May 13 j 04:47	23°♉49'15		
conjunction	-715 May 26 j 23:20	26°♉55'59	-0°20'15	
minimum elong	-715 May 26 j 23:22	26°♉56'00	0°20'14	
max. Earth dist.	-715 May 28 j 15:04	27°♉18'28	6.19439 AU	
morning rise	-715 Jun 09 j 17:37	0°♊02'22		
	-715 Jun 09 j 13:25	0°♊		
retrograde	-715 Oct 13 j 01:59	18°♊25'58		
asc. node	-715 Dec 07 j 01:17	14°♊01'46		
opposition	-715 Dec 11 j 16:51	13°♊24'17	0°00'43	
min. Earth dist.	-715 Dec 10 j 22:48	13°♊30'22	4.25807 AU	
direct	-714 Feb 09 j 17:52	8°♊22'09		
evening set	-714 Jun 16 j 21:52	26°♊38'05		
conjunction	-714 Jun 30 j 12:11	29°♊37'51	0°21'00	
minimum elong	-714 Jun 30 j 12:10	29°♊37'50	0°20'59	
max. Earth dist.	-714 Jul 01 j 01:40	29°♊45'17	6.31731 AU	
	-714 Jul 02 j 04:19	0°♋		
morning rise	-714 Jul 14 j 00:44	2°♋36'29		
retrograde	-714 Nov 13 j 08:23	20°♋05'32		
opposition	-713 Jan 12 j 04:26	15°♋07'44	0°56'57	
min. Earth dist.	-713 Jan 12 j 04:08	15°♋07'50	4.36607 AU	
direct	-713 Mar 14 j 13:50	10°♋04'28		
evening set	-713 Jul 19 j 20:43	27°♋56'48		
	-713 Jul 29 j 07:46	0°♌		
conjunction	-713 Aug 02 j 03:24	0°♌49'53	0°54'34	
minimum elong	-713 Aug 02 j 03:21	0°♌49'52	0°54'34	
max. Earth dist.	-713 Aug 01 j 15:21	0°♌43'20	6.40208 AU	
morning rise	-713 Aug 15 j 06:57	3°♌41'24		
	-713 Oct 11 j 21:39	15°♌		
retrograde	-713 Dec 13 j 18:15	20°♌38'59		
opposition	-712 Feb 11 j 23:54	15°♌44'39	1°35'09	
min. Earth dist.	-712 Feb 12 j 15:34	15°♌39'34	4.42330 AU	
	-712 Feb 17 j 17:59	15°℞♌		
direct	-712 Apr 14 j 07:12	10°♌41'37		
	-712 Jun 09 j 09:00	15°♌		
evening set	-712 Aug 19 j 10:32	28°♌23'06		
	-712 Aug 26 j 21:09	0°♍		
max. Earth dist.	-712 Aug 30 j 22:40	0°♍53'08	6.42659 AU	
conjunction	-712 Sep 01 j 08:52	1°♍11'47	1°12'15	
minimum elong	-712 Sep 01 j 08:51	1°♍11'46	1°12'15	
morning rise	-712 Sep 14 j 04:16	3°♍59'03		
retrograde	-711 Jan 12 j 10:33	20°♍52'11		
opposition	-711 Mar 14 j 00:06	16°♍00'02	1°47'09	
min. Earth dist.	-711 Mar 15 j 05:32	15°♍50'36	4.41494 AU	
direct	-711 May 15 j 17:56	10°♍58'20		
evening set	-711 Sep 19 j 07:19	28°♍43'05		
	-711 Sep 25 j 03:12	0°♎		
max. Earth dist.	-711 Sep 30 j 01:42	1°♎05'27	6.38502 AU	
conjunction	-711 Oct 01 j 23:59	1°♎31'02	1°10'03	
minimum elong	-711 Oct 02 j 00:00	1°♎31'02	1°10'03	
morning rise	-711 Oct 14 j 14:23	4°♎18'00		
retrograde	-710 Feb 13 j 02:44	21°♎33'23		
opposition	-710 Apr 14 j 23:53	16°♎41'41	1°29'45	
min. Earth dist.	-710 Apr 16 j 09:41	16°♎30'56	4.34290 AU	
direct	-710 Jun 16 j 09:44	11°♎42'11		
evening set	-710 Oct 20 j 07:15	29°♎43'52		
	-710 Oct 21 j 11:59	0°♏		
max. Earth dist.	-710 Oct 31 j 01:15	2°♏09'30	6.28804 AU	
conjunction	-710 Nov 01 j 21:54	2°♏34'49	0°47'53	
minimum elong	-710 Nov 01 j 21:56	2°♏34'50	0°47'52	
morning rise	-710 Nov 14 j 11:24	5°♏25'27		
	-710 Dec 29 j 18:17	15°♏		
retrograde	-709 Mar 18 j 15:35	23°♏26'50		
opposition	-709 May 18 j 14:52	18°♏34'00	0°45'00	
min. Earth dist.	-709 May 19 j 20:19	18°♏24'36	4.22620 AU	
	-709 Jun 18 j 21:32	15°℞♏		
direct	-709 Jul 19 j 02:55	13°♏37'15		
	-709 Aug 18 j 02:59	15°♏		
	-709 Nov 12 j 02:37	0°♐		
evening set	-709 Nov 21 j 07:04	2°♐06'25		
conjunction	-709 Dec 03 j 23:09	5°♐03'11	0°10'18	
minimum elong	-709 Dec 03 j 23:10	5°♐03'12	0°10'17	
behind sun begin	-709 Dec 03 j 16:46	4°♐59'29		
behind sun end	-709 Dec 04 j 05:33	5°♐06'54		
max. Earth dist.	-709 Dec 02 j 15:08	4°♐44'31	6.16186 AU	
morning rise	-709 Dec 16 j 15:59	8°♐00'33		
desc. node	-708 Mar 08 j 05:17	24°♐01'22		
retrograde	-708 Apr 22 j 06:38	27°♐03'21		
opposition	-708 Jun 22 j 02:32	22°♐07'44	-0°17'08	
min. Earth dist.	-708 Jun 22 j 15:53	22°♐03'24	4.09931 AU	
direct	-708 Aug 21 j 05:08	17°♐13'22		
	-708 Nov 26 j 21:12	0°♑		
evening set	-708 Dec 24 j 00:11	6°♑14'16		
conjunction	-707 Jan 05 j 20:54	9°♑17'57	-0°32'19	
minimum elong	-707 Jan 05 j 20:52	9°♑17'56	0°32'18	
max. Earth dist.	-707 Jan 05 j 15:40	9°♑14'50	6.04599 AU	
morning rise	-707 Jan 18 j 19:36	12°♑22'56		
	-707 Apr 20 j 00:04	0°♒		
retrograde	-707 May 29 j 15:44	2°♒24'10		
	-707 Jul 08 j 09:36	30°℞♑		
opposition	-707 Jul 29 j 01:23	27°♑24'45	-1°16'24	
min. Earth dist.	-707 Jul 28 j 18:59	27°♑26'52	4.00561 AU	
direct	-707 Sep 25 j 20:31	22°♑31'28		
	-707 Dec 05 j 11:33	0°♒		
evening set	-706 Jan 28 j 16:04	11°♒56'54		
conjunction	-706 Feb 10 j 19:21	15°♒06'18	-1°04'19	
minimum elong	-706 Feb 10 j 19:19	15°♒06'17	1°04'19	
	-706 Feb 10 j 08:53	15°♒		
max. Earth dist.	-706 Feb 11 j 19:13	15°♒20'40	5.98253 AU	
morning rise	-706 Feb 24 j 01:53	18°♒17'27		
	-706 Apr 17 j 21:54	0°♓		
retrograde	-706 Jul 06 j 09:57	8°♓48'12		
min. Earth dist.	-706 Sep 03 j 08:19	3°♓53'33	3.98098 AU	
opposition	-706 Sep 04 j 09:37	3°♓45'02	-1°47'48	
	-706 Oct 06 j 06:31	30°℞♒		
direct	-706 Nov 01 j 09:09	28°♒50'42		

Attention, astronomical year style is used: The year -706 in astronomical counting style is the year 707 BCE in historical counting style.

	-706 Nov 27 j 12:14	0°♓	
evening set	-705 Mar 06 j 16:51	18°♓21'28	
conjunction	-705 Mar 20 j 03:58	21°♓33'39	-1°11'55
minimum elong	-705 Mar 20 j 03:59	21°♓33'39	1°11'55
max. Earth dist.	-705 Mar 22 j 02:13	22°♓01'12	5.99782 AU
morning rise	-705 Apr 02 j 18:09	24°♓47'19	
	-705 Apr 25 j 07:07	0°♈	
retrograde	-705 Aug 12 j 04:09	15°♈01'32	
min. Earth dist.	-705 Oct 09 j 11:08	10°♈07'21	4.03512 AU
opposition	-705 Oct 10 j 19:27	9°♈56'20	-1°37'04
direct	-705 Dec 07 j 21:53	4°♈59'12	
evening set	-704 Apr 11 j 21:57	24°♈13'05	
conjunction	-704 Apr 25 j 15:17	27°♈24'05	-0°52'07
minimum elong	-704 Apr 25 j 15:20	27°♈24'06	0°52'07
max. Earth dist.	-704 Apr 27 j 18:44	27°♈53'57	6.08538 AU
	-704 May 06 j 20:19	0°♉	
morning rise	-704 May 09 j 10:08	0°♉35'38	
	-704 Jul 19 j 09:27	15°♉	
retrograde	-704 Sep 14 j 21:20	19°♉55'49	
min. Earth dist.	-704 Nov 12 j 05:19	15°♉01'13	4.14595 AU
	-704 Nov 12 j 08:53	15°℞♉	
opposition	-704 Nov 13 j 09:50	14°♉51'31	-0°51'12
direct	-703 Jan 11 j 08:30	9°♉51'21	
	-703 Mar 11 j 06:42	15°♉	
evening set	-703 May 18 j 02:27	28°♉34'58	
	-703 May 24 j 09:45	0°♊	
conjunction	-703 May 31 j 20:38	1°♊40'53	-0°14'31
minimum elong	-703 May 31 j 20:39	1°♊40'54	0°14'30
behind sun begin	-703 May 31 j 17:18	1°♊39'01	
behind sun end	-703 May 31 j 24:00	1°♊42'46	
max. Earth dist.	-703 Jun 02 j 07:39	2°♊00'38	6.21043 AU
morning rise	-703 Jun 14 j 14:37	4°♊46'23	
retrograde	-703 Oct 17 j 12:11	23°♊02'12	
asc. node	-703 Oct 17 j 08:23	23°♊02'12	
opposition	-703 Dec 16 j 03:20	18°♊00'59	0°09'09
min. Earth dist.	-703 Dec 15 j 12:07	18°♊06'06	4.27264 AU
direct	-702 Feb 14 j 09:37	12°♊58'33	
	-702 Jun 16 j 02:58	0°♋	
evening set	-702 Jun 21 j 14:03	1°♋11'25	
conjunction	-702 Jul 05 j 03:42	4°♋10'21	0°26'22
minimum elong	-702 Jul 05 j 03:40	4°♋10'20	0°26'23
max. Earth dist.	-702 Jul 05 j 14:53	4°♋16'30	6.32943 AU
morning rise	-702 Jul 18 j 15:00	7°♋08'00	
retrograde	-702 Nov 17 j 14:32	24°♋32'01	
opposition	-701 Jan 16 j 12:17	19°♋34'46	1°03'38
min. Earth dist.	-701 Jan 16 j 13:31	19°♋34'21	4.37503 AU
direct	-701 Mar 19 j 00:29	14°♋31'28	
	-701 Jul 13 j 06:46	0°♌	
evening set	-701 Jul 24 j 08:41	2°♌22'18	
conjunction	-701 Aug 06 j 14:02	5°♌14'39	0°58'08
minimum elong	-701 Aug 06 j 13:59	5°♌14'38	0°58'08
max. Earth dist.	-701 Aug 05 j 21:34	5°♌05'42	6.40717 AU
morning rise	-701 Aug 19 j 16:31	8°♌05'30	
	-701 Sep 21 j 21:48	15°♌	
retrograde	-701 Dec 18 j 02:13	25°♌01'29	
opposition	-700 Feb 16 j 07:59	20°♌07'33	1°38'33
min. Earth dist.	-700 Feb 17 j 02:23	20°♌01'36	4.42461 AU
direct	-700 Apr 18 j 18:36	15°♌04'39	
	-700 Aug 10 j 21:02	0°♍	
evening set	-700 Aug 23 j 19:37	2°♍46'09	
max. Earth dist.	-700 Sep 04 j 05:46	5°♍15'17	6.42409 AU
conjunction	-700 Sep 05 j 17:07	5°♍34'34	1°13'11
minimum elong	-700 Sep 05 j 17:06	5°♍34'33	1°13'11
morning rise	-700 Sep 18 j 11:30	8°♍21'34	
retrograde	-699 Jan 16 j 18:39	25°♍16'14	
opposition	-699 Mar 18 j 10:31	20°♍24'13	1°46'28
min. Earth dist.	-699 Mar 19 j 15:39	20°♍14'54	4.40920 AU
direct	-699 May 20 j 03:21	15°♍22'49	
	-699 Sep 09 j 03:13	0°♎	
evening set	-699 Sep 23 j 15:32	3°♎08'42	
max. Earth dist.	-699 Oct 04 j 09:57	5°♎31'25	6.37660 AU
conjunction	-699 Oct 06 j 07:36	5°♎56'44	1°08'05
minimum elong	-699 Oct 06 j 07:37	5°♎56'45	1°08'04
morning rise	-699 Oct 18 j 21:34	8°♎43'53	
retrograde	-698 Feb 17 j 16:54	26°♎03'26	
opposition	-698 Apr 19 j 14:36	21°♎11'41	1°24'59
min. Earth dist.	-698 Apr 21 j 00:42	21°♎00'50	4.33221 AU
direct	-698 Jun 20 j 23:36	16°♎12'34	
	-698 Oct 05 j 08:36	0°♏	
evening set	-698 Oct 24 j 16:32	4°♏16'04	
max. Earth dist.	-698 Nov 04 j 10:57	6°♏42'25	6.27598 AU
conjunction	-698 Nov 06 j 07:03	7°♏07'28	0°43'24
minimum elong	-698 Nov 06 j 07:05	7°♏07'29	0°43'24
morning rise	-698 Nov 18 j 20:48	9°♏58'42	
	-698 Dec 11 j 13:59	15°♏	
retrograde	-697 Mar 23 j 09:28	28°♏06'11	
opposition	-697 May 23 j 10:01	23°♏13'00	0°37'06
min. Earth dist.	-697 May 24 j 12:51	23°♏04'25	4.21351 AU
direct	-697 Jul 23 j 17:46	18°♏16'35	
	-697 Oct 26 j 08:53	0°♐	
evening set	-697 Nov 25 j 19:36	6°♐48'09	
max. Earth dist.	-697 Dec 07 j 08:20	9°♐29'21	6.14972 AU
conjunction	-697 Dec 08 j 12:08	9°♐45'36	0°04'29
minimum elong	-697 Dec 08 j 12:08	9°♐45'36	0°04'28
behind sun begin	-697 Dec 08 j 04:17	9°♐41'02	
behind sun end	-697 Dec 08 j 19:59	9°♐50'10	
morning rise	-697 Dec 21 j 05:22	12°♐43'41	
desc. node	-696 Jan 18 j 09:43	19°♐05'00	
	-696 Mar 23 j 02:24	0°♑	
retrograde	-696 Apr 27 j 07:21	1°♑53'07	
	-696 Jun 01 j 14:31	30°℞♐	
opposition	-696 Jun 27 j 01:36	26°♐57'02	-0°25'53
min. Earth dist.	-696 Jun 27 j 13:32	26°♐53'10	4.08861 AU
direct	-696 Aug 26 j 01:01	22°♐02'54	
	-696 Nov 08 j 04:23	0°♑	
evening set	-696 Dec 28 j 17:24	11°♑06'04	
conjunction	-695 Jan 10 j 14:42	14°♑10'24	-0°37'36
minimum elong	-695 Jan 10 j 14:39	14°♑10'22	0°37'36
max. Earth dist.	-695 Jan 10 j 11:51	14°♑08'42	6.03756 AU
morning rise	-695 Jan 23 j 14:25	17°♑16'09	
	-695 Mar 23 j 09:37	0°♒	
retrograde	-695 Jun 03 j 16:09	7°♒22'09	
opposition	-695 Aug 03 j 01:57	2°♒22'13	-1°22'42
min. Earth dist.	-695 Aug 02 j 16:18	2°♒25'25	4.00055 AU
	-695 Aug 21 j 19:18	30°℞♑	
direct	-695 Sep 30 j 16:54	27°♑28'55	
	-695 Nov 09 j 00:53	0°♒	
	-694 Jan 25 j 11:17	15°♒	
evening set	-694 Feb 02 j 13:42	16°♒55'33	
conjunction	-694 Feb 15 j 17:59	20°♒05'27	-1°06'56
minimum elong	-694 Feb 15 j 17:57	20°♒05'25	1°06'56
max. Earth dist.	-694 Feb 16 j 20:49	20°♒21'35	5.98114 AU
morning rise	-694 Mar 01 j 01:26	23°♒17'04	

Attention, astronomical year style is used: The year -694 in astronomical counting style is the year 695 BCE in historical counting style.

	-694 Mar 30 j 01:19	0°♓	
retrograde	-694 Jul 11 j 10:41	13°♓48'19	
min. Earth dist.	-694 Sep 08 j 06:48	8°♓53'30	3.98350 AU
opposition	-694 Sep 09 j 08:36	8°♓44'47	-1°48'51
direct	-694 Nov 06 j 08:14	3°♓50'08	
evening set	-693 Mar 11 j 16:58	23°♓20'20	
conjunction	-693 Mar 25 j 05:12	26°♓32'43	-1°10'44
minimum elong	-693 Mar 25 j 05:14	26°♓32'44	1°10'44
max. Earth dist.	-693 Mar 27 j 05:36	27°♓01'28	6.00406 AU
morning rise	-693 Apr 07 j 20:14	29°♓46'29	
	-693 Apr 08 j 19:12	0°♈	
retrograde	-693 Aug 17 j 00:12	19°♈56'14	
min. Earth dist.	-693 Oct 14 j 05:46	15°♈02'07	4.04453 AU
opposition	-693 Oct 15 j 14:05	14°♈51'05	-1°32'34
direct	-693 Dec 12 j 17:02	9°♈53'38	
evening set	-692 Apr 16 j 21:29	29°♈05'23	
	-692 Apr 20 j 20:10	0°♉	
conjunction	-692 Apr 30 j 15:13	2°♉16'05	-0°47'46
minimum elong	-692 Apr 30 j 15:17	2°♉16'07	0°47'46
max. Earth dist.	-692 May 02 j 15:54	2°♉44'16	6.09713 AU
morning rise	-692 May 14 j 10:34	5°♉27'18	
	-692 Jun 27 j 10:41	15°♉	
retrograde	-692 Sep 19 j 11:00	24°♉40'33	
opposition	-692 Nov 17 j 23:36	19°♉36'34	-0°43'21
min. Earth dist.	-692 Nov 16 j 20:31	19°♉45'47	4.15882 AU
	-692 Dec 31 j 15:22	15℞♉	
direct	-691 Jan 16 j 01:51	14°♉36'03	
	-691 Jan 31 j 15:30	15°♉	
	-691 May 08 j 02:03	0°♊	
evening set	-691 May 22 j 22:23	3°♊16'56	
conjunction	-691 Jun 05 j 16:30	6°♊22'13	-0°08'49
minimum elong	-691 Jun 05 j 16:30	6°♊22'14	0°08'49
behind sun begin	-691 Jun 05 j 09:22	6°♊18'14	
behind sun end	-691 Jun 05 j 23:38	6°♊26'13	
max. Earth dist.	-691 Jun 07 j 02:06	6°♊41'07	6.22372 AU
morning rise	-691 Jun 19 j 09:47	9°♊26'54	
asc. node	-691 Aug 28 j 07:40	23°♊09'22	
retrograde	-691 Oct 21 j 22:11	27°♊36'05	
opposition	-691 Dec 20 j 13:08	22°♊35'26	0°17'23
min. Earth dist.	-691 Dec 19 j 23:37	22°♊39'58	4.28522 AU
direct	-690 Feb 18 j 23:18	17°♊32'53	
	-690 May 30 j 07:40	0°♋	
evening set	-690 Jun 26 j 05:39	5°♋43'14	
conjunction	-690 Jul 09 j 18:12	8°♋41'18	0°31'30
minimum elong	-690 Jul 09 j 18:10	8°♋41'17	0°31'31
max. Earth dist.	-690 Jul 10 j 01:02	8°♋45'03	6.34030 AU
morning rise	-690 Jul 23 j 04:33	11°♋38'04	
retrograde	-690 Nov 21 j 21:29	28°♋57'31	
opposition	-689 Jan 20 j 19:49	24°♋00'43	1°09'51
min. Earth dist.	-689 Jan 20 j 23:27	23°♋59'31	4.38361 AU
direct	-689 Mar 23 j 11:59	18°♋57'22	
	-689 Jun 26 j 05:33	0°♌	
evening set	-689 Jul 28 j 19:34	6°♌46'31	
conjunction	-689 Aug 10 j 23:55	9°♌38'11	1°01'19
minimum elong	-689 Aug 10 j 23:52	9°♌38'10	1°01'19
max. Earth dist.	-689 Aug 10 j 06:17	9°♌28'35	6.41272 AU
morning rise	-689 Aug 24 j 01:01	12°♌28'18	
	-689 Sep 04 j 20:23	15°♌	
retrograde	-689 Dec 22 j 07:15	29°♌22'28	
opposition	-688 Feb 20 j 15:19	24°♌28'52	1°41'19
min. Earth dist.	-688 Feb 21 j 10:31	24°♌22'40	4.42676 AU
direct	-688 Apr 23 j 03:02	19°♌26'07	
	-688 Jul 24 j 20:15	0°♍	
evening set	-688 Aug 28 j 03:13	7°♍07'04	
max. Earth dist.	-688 Sep 08 j 09:29	9°♍34'17	6.42228 AU
conjunction	-688 Sep 09 j 23:36	9°♍55'07	1°13'41
minimum elong	-688 Sep 09 j 23:35	9°♍55'07	1°13'41
morning rise	-688 Sep 22 j 17:16	12°♍41'51	
retrograde	-687 Jan 21 j 03:56	29°♍37'59	
opposition	-687 Mar 22 j 20:06	24°♍46'05	1°45'11
min. Earth dist.	-687 Mar 24 j 03:13	24°♍36'09	4.40326 AU
direct	-687 May 24 j 13:57	19°♍44'53	
	-687 Aug 23 j 01:50	0°♎	
evening set	-687 Sep 27 j 22:04	7°♎31'54	
max. Earth dist.	-687 Oct 08 j 15:42	9°♎54'32	6.36675 AU
conjunction	-687 Oct 10 j 13:47	10°♎20'09	1°05'44
minimum elong	-687 Oct 10 j 13:49	10°♎20'10	1°05'44
morning rise	-687 Oct 23 j 03:24	13°♎07'34	
	-686 Feb 03 j 16:46	0°♏	
retrograde	-686 Feb 22 j 04:38	0°♏31'56	
	-686 Mar 12 j 18:41	30℞♎	
opposition	-686 Apr 24 j 04:05	25°♎40'02	1°19'43
min. Earth dist.	-686 Apr 25 j 13:07	25°♎29'32	4.31887 AU
direct	-686 Jun 25 j 09:34	20°♎41'15	
	-686 Sep 17 j 18:38	0°♏	
evening set	-686 Oct 29 j 01:11	8°♏47'44	
max. Earth dist.	-686 Nov 08 j 21:27	11°♏15'38	6.26023 AU
conjunction	-686 Nov 10 j 15:45	11°♏39'46	0°38'39
minimum elong	-686 Nov 10 j 15:47	11°♏39'48	0°38'39
morning rise	-686 Nov 23 j 05:44	14°♏31'46	
	-686 Nov 25 j 07:36	15°♏	
	-685 Feb 13 j 00:16	0°♐	
retrograde	-685 Mar 28 j 06:38	2°♐46'57	
	-685 May 11 j 03:32	30℞♏	
opposition	-685 May 28 j 05:31	27°♏53'27	0°28'53
min. Earth dist.	-685 May 29 j 07:58	27°♏44'59	4.19609 AU
direct	-685 Jul 28 j 10:05	22°♏57'20	
	-685 Oct 07 j 00:32	0°♐	
desc. node	-685 Nov 28 j 21:20	11°♐12'24	
evening set	-685 Nov 30 j 09:04	11°♐33'10	
max. Earth dist.	-685 Dec 12 j 00:06	14°♐16'19	6.13220 AU
conjunction	-685 Dec 13 j 02:07	14°♐31'35	-0°01'35
minimum elong	-685 Dec 13 j 02:05	14°♐31'34	0°01'35
behind sun begin	-685 Dec 12 j 18:04	14°♐26'53	
behind sun end	-685 Dec 13 j 10:07	14°♐36'15	
morning rise	-685 Dec 25 j 20:10	17°♐30'45	
	-684 Feb 22 j 18:11	0°♑	
retrograde	-684 May 02 j 08:11	6°♑48'57	
opposition	-684 Jul 02 j 02:39	1°♑52'21	-0°34'41
min. Earth dist.	-684 Jul 02 j 11:08	1°♑49'35	4.07252 AU
	-684 Jul 16 j 21:31	30℞♐	
direct	-684 Aug 30 j 20:01	26°♐58'25	
	-684 Oct 13 j 18:32	0°♑	
evening set	-683 Jan 02 j 13:46	16°♑05'59	
conjunction	-683 Jan 15 j 11:57	19°♑11'16	-0°42'46
minimum elong	-683 Jan 15 j 11:54	19°♑11'14	0°42'47
max. Earth dist.	-683 Jan 15 j 13:17	19°♑12'04	6.02434 AU
morning rise	-683 Jan 28 j 12:37	22°♑18'02	
	-683 Mar 03 j 03:34	0°♒	
retrograde	-683 Jun 08 j 23:01	12°♒30'33	
opposition	-683 Aug 08 j 06:16	7°♒30'03	-1°28'38
min. Earth dist.	-683 Aug 07 j 18:46	7°♒33'53	3.99163 AU
direct	-683 Oct 05 j 19:01	2°♒36'38	
	-682 Jan 08 j 00:52	15°♒	

Attention, astronomical year style is used: The year -682 in astronomical counting style is the year 683 BCE in historical counting style.

evening set	-682 Feb 07 j 16:21	22°♒05'55		
conjunction	-682 Feb 20 j 21:50	25°♒16'30	-1°09'09	
minimum elong	-682 Feb 20 j 21:48	25°♒16'29	1°09'10	
max. Earth dist.	-682 Feb 22 j 05:01	25°♒35'15	5.97736 AU	
morning rise	-682 Mar 06 j 06:27	28°♒28'48		
	-682 Mar 12 j 16:03	0°♓		
retrograde	-682 Jul 16 j 16:07	19°♓00'40		
min. Earth dist.	-682 Sep 13 j 08:20	14°♓06'10	3.98567 AU	
opposition	-682 Sep 14 j 12:00	13°♓56'48	-1°49'07	
direct	-682 Nov 11 j 09:40	9°♓01'53		
evening set	-681 Mar 16 j 22:31	28°♓31'27		
	-681 Mar 23 j 04:19	0°♈		
conjunction	-681 Mar 30 j 11:37	1°♈43'56	-1°08'58	
minimum elong	-681 Mar 30 j 11:39	1°♈43'57	1°08'57	
max. Earth dist.	-681 Apr 01 j 12:21	2°♈12'48	6.01189 AU	
morning rise	-681 Apr 13 j 03:43	4°♈57'44		
retrograde	-681 Aug 21 j 22:31	25°♈01'44		
min. Earth dist.	-681 Oct 19 j 03:51	20°♈07'48	4.05732 AU	
opposition	-681 Oct 20 j 12:46	19°♈56'33	-1°27'11	
direct	-681 Dec 17 j 18:05	14°♈58'39		
	-680 Apr 03 j 20:44	0°♉		
evening set	-680 Apr 22 j 00:56	4°♉06'39		
conjunction	-680 May 05 j 19:13	7°♉16'48	-0°42'55	
minimum elong	-680 May 05 j 19:16	7°♉16'49	0°42'54	
max. Earth dist.	-680 May 07 j 20:21	7°♉45'08	6.11422 AU	
morning rise	-680 May 19 j 14:29	10°♉27'13		
	-680 Jun 08 j 20:53	15°♉		
retrograde	-680 Sep 24 j 03:45	29°♉30'58		
opposition	-680 Nov 22 j 15:41	24°♉27'21	-0°35'02	
min. Earth dist.	-680 Nov 21 j 13:58	24°♉36'05	4.17844 AU	
direct	-679 Jan 20 j 22:50	19°♉26'31		
	-679 Apr 20 j 04:39	0°♊		
evening set	-679 May 27 j 20:07	8°♊01'55		
conjunction	-679 Jun 10 j 13:36	11°♊06'05	-0°03'01	
minimum elong	-679 Jun 10 j 13:37	11°♊06'05	0°03'00	
behind sun begin	-679 Jun 10 j 05:18	11°♊01'27		
behind sun end	-679 Jun 10 j 21:55	11°♊10'43		
max. Earth dist.	-679 Jun 11 j 19:56	11°♊23'03	6.24435 AU	
morning rise	-679 Jun 24 j 06:14	14°♊09'32		
asc. node	-679 Jul 08 j 17:32	17°♊20'00		
	-679 Sep 19 j 02:22	0°♋		
retrograde	-679 Oct 26 j 06:00	2°♋09'20		
	-679 Dec 02 j 06:04	30°℞♊		
opposition	-679 Dec 24 j 22:52	27°♊09'09	0°25'27	
min. Earth dist.	-679 Dec 24 j 11:00	27°♊13'08	4.30516 AU	
direct	-678 Feb 23 j 13:35	22°♊06'22		
	-678 May 11 j 13:32	0°♋		
evening set	-678 Jun 30 j 19:51	10°♋11'33		
conjunction	-678 Jul 14 j 07:22	13°♋08'26	0°36'23	
minimum elong	-678 Jul 14 j 07:19	13°♋08'24	0°36'24	
max. Earth dist.	-678 Jul 14 j 11:29	13°♋10'41	6.35804 AU	
morning rise	-678 Jul 27 j 16:18	16°♋03'54		
	-678 Oct 10 j 08:54	0°♌		
retrograde	-678 Nov 26 j 01:38	3°♌16'45		
	-677 Jan 12 j 03:46	30°℞♋		
opposition	-677 Jan 25 j 01:28	28°♋20'27	1°15'30	
min. Earth dist.	-677 Jan 25 j 07:26	28°♋18'30	4.39786 AU	
direct	-677 Mar 27 j 21:33	23°♋17'07		
	-677 Jun 07 j 03:57	0°♌		
evening set	-677 Aug 02 j 03:21	11°♌02'42		
max. Earth dist.	-677 Aug 14 j 07:49	13°♌41'14	6.42208 AU	
conjunction	-677 Aug 15 j 06:20	13°♌53'29	1°04'04	
minimum elong	-677 Aug 15 j 06:18	13°♌53'28	1°04'05	
	-677 Aug 20 j 08:43	15°♌		
morning rise	-677 Aug 28 j 06:21	16°♌42'45		
	-677 Nov 07 j 07:14	0°♍		
retrograde	-677 Dec 26 j 10:42	3°♍34'22		
	-676 Feb 14 j 11:38	30°℞♌		
opposition	-676 Feb 24 j 19:42	28°♌41'04	1°43'26	
min. Earth dist.	-676 Feb 25 j 17:43	28°♌33'58	4.43077 AU	
direct	-676 Apr 27 j 09:48	23°♌38'22		
	-676 Jul 05 j 20:37	0°♍		
evening set	-676 Sep 01 j 07:04	11°♍18'25		
max. Earth dist.	-676 Sep 12 j 11:19	13°♍44'37	6.42046 AU	
conjunction	-676 Sep 14 j 02:45	14°♍06'12	1°13'45	
minimum elong	-676 Sep 14 j 02:45	14°♍06'12	1°13'45	
morning rise	-676 Sep 26 j 19:27	16°♍52'40		
	-676 Dec 05 j 02:07	0°♎		
retrograde	-675 Jan 25 j 08:12	3°♎50'39		
	-675 Mar 19 j 01:04	30°℞♍		
opposition	-675 Mar 27 j 02:16	28°♍58'52	1°43'23	
min. Earth dist.	-675 Mar 28 j 10:13	28°♍48'41	4.39568 AU	
direct	-675 May 28 j 18:41	23°♍57'56		
	-675 Aug 03 j 20:22	0°♎		
evening set	-675 Oct 02 j 01:36	11°♎46'57		
max. Earth dist.	-675 Oct 12 j 16:59	14°♎08'50	6.35380 AU	
conjunction	-675 Oct 14 j 16:51	14°♎35'32	1°03'06	
minimum elong	-675 Oct 14 j 16:53	14°♎35'33	1°03'06	
morning rise	-675 Oct 27 j 06:26	17°♎23'27		
	-675 Dec 30 j 05:20	0°♏		
retrograde	-674 Feb 26 j 17:30	4°♏54'09		
opposition	-674 Apr 28 j 15:44	0°♏02'10	1°14'10	
	-674 Apr 28 j 22:33	30°℞♎		
min. Earth dist.	-674 Apr 30 j 01:59	29°♎51'16	4.30106 AU	
direct	-674 Jun 29 j 19:00	25°♎03'40		
	-674 Aug 27 j 23:48	0°♏		
evening set	-674 Nov 02 j 08:02	13°♏14'56		
	-674 Nov 10 j 00:16	15°♏		
max. Earth dist.	-674 Nov 13 j 05:13	15°♏44'04	6.23904 AU	
conjunction	-674 Nov 14 j 22:55	16°♏07'57	0°33'46	
minimum elong	-674 Nov 14 j 22:57	16°♏07'58	0°33'45	
morning rise	-674 Nov 27 j 13:19	19°♏01'01		
	-673 Jan 18 j 18:10	0°♐		
retrograde	-673 Apr 02 j 01:37	7°♐26'08		
opposition	-673 Jun 02 j 00:23	2°♐32'20	0°20'36	
min. Earth dist.	-673 Jun 03 j 00:32	2°♐24'35	4.17305 AU	
	-673 Jun 22 j 19:44	30°℞♏		
direct	-673 Aug 01 j 22:41	27°♏36'36		
	-673 Sep 10 j 11:56	0°♐		
desc. node	-673 Oct 10 j 03:20	4°♐26'11		
evening set	-673 Dec 04 j 23:10	16°♐19'05		
conjunction	-673 Dec 17 j 16:49	19°♐18'44	-0°07'30	
minimum elong	-673 Dec 17 j 16:48	19°♐18'44	0°07'30	
behind sun begin	-673 Dec 17 j 09:29	19°♐14'26		
behind sun end	-673 Dec 18 j 00:08	19°♐23'02		
max. Earth dist.	-673 Dec 16 j 17:54	19°♐05'14	6.10933 AU	
morning rise	-673 Dec 30 j 11:46	22°♐19'18		
	-672 Feb 02 j 13:53	0°♑		
retrograde	-672 May 07 j 13:25	11°♑48'31		
opposition	-672 Jul 07 j 05:06	6°♑51'26	-0°43'17	
min. Earth dist.	-672 Jul 07 j 11:29	6°♑49'21	4.05184 AU	
direct	-672 Sep 04 j 18:16	1°♑57'43		
evening set	-671 Jan 07 j 12:28	21°♑11'35		

Attention, astronomical year style is used: The year -671 in astronomical counting style is the year 672 BCE in historical counting style.

conjunction	-671 Jan 20 j 11:46	24°♑18'05	-0°47'39	
minimum elong	-671 Jan 20 j 11:44	24°♑18'04	0°47'39	
max. Earth dist.	-671 Jan 20 j 18:11	24°♑21'56	6.00783 AU	
morning rise	-671 Feb 02 j 13:37	27°♑26'07		
	-671 Feb 13 j 09:56	0°♒		
	-671 May 02 j 19:21	15°♒		
retrograde	-671 Jun 14 j 08:32	17°♒46'06		
	-671 Jul 27 j 00:33	15°℞♒		
opposition	-671 Aug 13 j 13:05	12°♒45'06	-1°33'54	
min. Earth dist.	-671 Aug 12 j 22:14	12°♒50'02	3.98143 AU	
direct	-671 Oct 10 j 21:20	7°♒51'40		
	-671 Dec 18 j 11:10	15°♒		
evening set	-670 Feb 12 j 22:13	27°♒23'58		
	-670 Feb 23 j 18:11	0°♓		
conjunction	-670 Feb 26 j 04:43	0°♓35'12	-1°10'49	
minimum elong	-670 Feb 26 j 04:42	0°♓35'12	1°10'49	
max. Earth dist.	-670 Feb 27 j 15:06	0°♓55'52	5.97413 AU	
morning rise	-670 Mar 11 j 14:40	3°♓48'11		
retrograde	-670 Jul 21 j 21:43	24°♓19'56		
min. Earth dist.	-670 Sep 18 j 11:24	19°♓25'50	3.98983 AU	
opposition	-670 Sep 19 j 17:32	19°♓15'37	-1°48'25	
direct	-670 Nov 16 j 14:40	14°♓20'18		
	-669 Mar 05 j 21:12	0°♈		
evening set	-669 Mar 22 j 06:20	3°♈48'15		
conjunction	-669 Apr 04 j 20:35	7°♈00'41	-1°06'35	
minimum elong	-669 Apr 04 j 20:37	7°♈00'42	1°06'35	
max. Earth dist.	-669 Apr 07 j 00:28	7°♈31'20	6.02291 AU	
morning rise	-669 Apr 18 j 13:17	10°♈14'15		
	-669 Aug 16 j 14:49	0°♉		
retrograde	-669 Aug 26 j 23:38	0°♉10'41		
	-669 Sep 06 j 06:17	30°℞♈		
min. Earth dist.	-669 Oct 24 j 04:02	25°♈16'32	4.07349 AU	
opposition	-669 Oct 25 j 12:20	25°♈05'30	-1°21'04	
direct	-669 Dec 22 j 21:15	20°♈07'08		
	-668 Mar 16 j 00:54	0°♉		
evening set	-668 Apr 27 j 05:19	9°♉10'07		
conjunction	-668 May 10 j 23:45	12°♉19'29	-0°37'43	
minimum elong	-668 May 10 j 23:48	12°♉19'30	0°37'42	
max. Earth dist.	-668 May 12 j 23:16	12°♉46'44	6.13377 AU	
	-668 May 22 j 16:09	15°♉		
morning rise	-668 May 24 j 19:06	15°♉29'01		
	-668 Aug 05 j 20:07	0°♊		
retrograde	-668 Sep 28 j 18:21	4°♊22'28		
	-668 Nov 22 j 07:10	30°℞♉		
min. Earth dist.	-668 Nov 26 j 06:52	29°♉27'39	4.19915 AU	
opposition	-668 Nov 27 j 07:48	29°♉19'12	-0°26'26	
direct	-667 Jan 25 j 18:35	24°♉17'59		
	-667 Mar 29 j 17:37	0°♊		
asc. node	-667 May 18 j 01:00	9°♊34'38		
evening set	-667 Jun 01 j 17:45	12°♊47'50		
conjunction	-667 Jun 15 j 10:38	15°♊50'52	0°03'01	
minimum elong	-667 Jun 15 j 10:38	15°♊50'51	0°03'02	
behind sun begin	-667 Jun 15 j 02:20	15°♊46'15		
behind sun end	-667 Jun 15 j 18:55	15°♊55'27		
max. Earth dist.	-667 Jun 16 j 13:19	16°♊05'44	6.26454 AU	
morning rise	-667 Jun 29 j 02:19	18°♊53'03		
	-667 Aug 22 j 19:05	0°♋		
retrograde	-667 Oct 30 j 16:15	6°♋44'11		
opposition	-667 Dec 29 j 09:16	1°♋44'33	0°33'28	
min. Earth dist.	-667 Dec 29 j 00:32	1°♋47'28	4.32306 AU	
	-666 Jan 11 j 17:40	30°℞♊		
direct	-666 Feb 28 j 05:16	26°♊41'36		
	-666 Apr 16 j 23:41	0°♋		
evening set	-666 Jul 05 j 10:45	14°♋42'32		
conjunction	-666 Jul 18 j 21:06	17°♋38'20	0°41'10	
minimum elong	-666 Jul 18 j 21:04	17°♋38'19	0°41'10	
max. Earth dist.	-666 Jul 18 j 20:53	17°♋38'13	6.37218 AU	
morning rise	-666 Aug 01 j 04:49	20°♋32'44		
	-666 Sep 16 j 18:19	0°♌		
retrograde	-666 Nov 30 j 07:05	7°♌40'28		
opposition	-665 Jan 29 j 08:42	2°♌44'38	1°20'55	
min. Earth dist.	-665 Jan 29 j 16:56	2°♌41'56	4.40761 AU	
	-665 Feb 20 j 14:19	30°℞♋		
direct	-665 Apr 01 j 07:25	27°♋41'16		
	-665 May 11 j 11:00	0°♌		
	-665 Aug 04 j 14:52	15°♌		
evening set	-665 Aug 06 j 13:06	15°♌24'52		
conjunction	-665 Aug 19 j 15:00	18°♌15'00	1°06'35	
minimum elong	-665 Aug 19 j 14:58	18°♌14'59	1°06'35	
max. Earth dist.	-665 Aug 18 j 14:07	18°♌01'28	6.42670 AU	
morning rise	-665 Sep 01 j 13:44	21°♌03'35		
	-665 Oct 15 j 14:40	0°♍		
retrograde	-665 Dec 30 j 17:04	7°♍54'15		
opposition	-664 Feb 29 j 03:15	3°♍01'16	1°45'09	
min. Earth dist.	-664 Mar 01 j 03:19	2°♍53'32	4.43015 AU	
	-664 Mar 25 j 08:59	30°℞♌		
direct	-664 May 01 j 18:44	27°♌58'47		
	-664 Jun 08 j 09:01	0°♍		
evening set	-664 Sep 05 j 14:16	15°♍39'10		
max. Earth dist.	-664 Sep 16 j 14:09	18°♍03'20	6.41443 AU	
conjunction	-664 Sep 18 j 09:00	18°♍26'50	1°13'28	
minimum elong	-664 Sep 18 j 09:00	18°♍26'50	1°13'27	
morning rise	-664 Oct 01 j 01:12	21°♍13'19		
	-664 Nov 12 j 18:30	0°♎		
retrograde	-663 Jan 29 j 19:12	8°♎14'32		
opposition	-663 Mar 31 j 13:21	3°♎22'48	1°40'59	
min. Earth dist.	-663 Apr 01 j 22:45	3°♎12'08	4.38466 AU	
	-663 Apr 29 j 17:49	30°℞♍		
direct	-663 Jun 02 j 04:58	28°♍22'06		
	-663 Jul 05 j 16:38	0°♎		
evening set	-663 Oct 06 j 09:26	16°♎13'52		
max. Earth dist.	-663 Oct 17 j 01:30	18°♎36'37	6.33872 AU	
conjunction	-663 Oct 19 j 00:35	19°♎02'58	0°59'59	
minimum elong	-663 Oct 19 j 00:38	19°♎03'00	0°59'59	
morning rise	-663 Oct 31 j 13:55	21°♎51'26		
	-663 Dec 09 j 00:05	0°♏		
retrograde	-662 Mar 03 j 09:21	9°♏29'01		
opposition	-662 May 03 j 08:28	4°♏36'54	1°07'52	
min. Earth dist.	-662 May 04 j 17:33	4°♏26'22	4.28287 AU	
	-662 Jun 19 j 03:47	30°℞♎		
direct	-662 Jul 04 j 07:38	29°♎38'49		
	-662 Jul 19 j 12:31	0°♏		
	-662 Oct 24 j 22:06	15°♏		
evening set	-662 Nov 06 j 20:01	17°♏54'41		
max. Earth dist.	-662 Nov 17 j 18:37	20°♏25'20	6.21937 AU	
conjunction	-662 Nov 19 j 11:00	20°♏48'36	0°28'26	
minimum elong	-662 Nov 19 j 11:02	20°♏48'37	0°28'26	
morning rise	-662 Dec 02 j 01:59	23°♏42'42		
	-662 Dec 30 j 09:27	0°♐		
retrograde	-661 Apr 07 j 02:56	12°♐17'11		
opposition	-661 Jun 07 j 00:25	7°♐22'59	0°11'44	
min. Earth dist.	-661 Jun 07 j 22:48	7°♐15'47	4.15329 AU	
direct	-661 Aug 06 j 18:43	2°♐27'37		
desc. node	-661 Aug 19 j 11:02	2°♐43'05		
evening set	-661 Dec 09 j 17:20	21°♐15'14		

Attention, astronomical year style is used: The year -661 in astronomical counting style is the year 662 BCE in historical counting style.

conjunction	-661 Dec 22 j 11:47	24°♐15'57	-0°13'35
minimum elong	-661 Dec 22 j 11:45	24°♐15'57	0°13'36
behind sun begin	-661 Dec 22 j 07:12	24°♐13'16	
behind sun end	-661 Dec 22 j 16:19	24°♐18'38	
max. Earth dist.	-661 Dec 21 j 17:21	24°♐05'04	6.09160 AU
morning rise	-660 Jan 04 j 07:32	27°♐17'40	
	-660 Jan 15 j 22:20	0°♑	
retrograde	-660 May 12 j 20:17	16°♑55'34	
opposition	-660 Jul 12 j 10:45	11°♑58'01	-0°51'51
min. Earth dist.	-660 Jul 12 j 13:35	11°♑57'05	4.03817 AU
direct	-660 Sep 09 j 18:49	7°♑04'31	
evening set	-659 Jan 12 j 13:45	26°♑21'51	
conjunction	-659 Jan 25 j 13:47	29°♑29'06	-0°52'17
minimum elong	-659 Jan 25 j 13:44	29°♑29'04	0°52'17
max. Earth dist.	-659 Jan 25 j 23:52	29°♑35'09	5.99942 AU
	-659 Jan 27 j 17:12	0°♒	
morning rise	-659 Feb 07 j 16:47	2°♒37'58	
	-659 Apr 05 j 01:11	15°♒	
retrograde	-659 Jun 19 j 15:33	23°♒01'46	
opposition	-659 Aug 18 j 19:46	18°♒00'10	-1°38'27
min. Earth dist.	-659 Aug 18 j 01:36	18°♒06'15	3.97949 AU
	-659 Sep 12 j 02:18	15°℞♒	
direct	-659 Oct 16 j 01:25	13°♒06'34	
	-659 Nov 18 j 18:30	15°♒	
	-658 Feb 06 j 23:13	0°♓	
evening set	-658 Feb 18 j 03:31	2°♓38'50	
conjunction	-658 Mar 03 j 11:14	5°♓50'21	-1°11'55
minimum elong	-658 Mar 03 j 11:14	5°♓50'21	1°11'55
max. Earth dist.	-658 Mar 05 j 02:38	6°♓14'00	5.97877 AU
morning rise	-658 Mar 16 j 22:01	9°♓03'30	
retrograde	-658 Jul 27 j 02:16	29°♓31'40	
opposition	-658 Sep 24 j 20:11	24°♓27'04	-1°46'52
min. Earth dist.	-658 Sep 23 j 13:40	24°♓37'26	4.00055 AU
direct	-658 Nov 21 j 18:46	19°♓31'23	
	-657 Feb 15 j 13:47	0°♈	
evening set	-657 Mar 27 j 11:02	8°♈55'34	
conjunction	-657 Apr 10 j 01:58	12°♈07'38	-1°03'47
minimum elong	-657 Apr 10 j 02:01	12°♈07'39	1°03'47
max. Earth dist.	-657 Apr 12 j 06:02	12°♈38'14	6.03841 AU
morning rise	-657 Apr 23 j 19:25	15°♈20'46	
	-657 Jul 04 j 00:19	0°♉	
retrograde	-657 Aug 31 j 18:01	5°♉08'16	
min. Earth dist.	-657 Oct 28 j 23:04	0°♉14'19	4.09202 AU
opposition	-657 Oct 30 j 07:34	0°♉03'13	-1°14'34
	-657 Oct 30 j 17:01	30°℞♈	
direct	-657 Dec 27 j 18:53	25°♈04'25	
	-656 Feb 22 j 18:34	0°♉	
evening set	-656 May 02 j 05:18	14°♉02'05	
	-656 May 06 j 11:06	15°♉	
conjunction	-656 May 15 j 23:48	17°♉10'36	-0°32'26
minimum elong	-656 May 15 j 23:50	17°♉10'37	0°32'25
max. Earth dist.	-656 May 17 j 20:07	17°♉35'55	6.15374 AU
morning rise	-656 May 29 j 18:54	20°♉19'07	
	-656 Jul 14 j 04:45	0°♊	
retrograde	-656 Oct 03 j 06:56	9°♊02'55	
opposition	-656 Dec 01 j 19:59	4°♊00'07	-0°17'59
min. Earth dist.	-656 Nov 30 j 22:08	4°♊07'31	4.21844 AU
	-655 Jan 05 j 09:01	30°℞♉	
direct	-655 Jan 30 j 12:12	28°♉58'36	
	-655 Feb 24 j 21:44	0°♊	
asc. node	-655 Mar 28 j 16:08	3°♊44'22	
evening set	-655 Jun 06 j 11:30	17°♊23'47	

conjunction	-655 Jun 20 j 03:48	20°♊25'50	0°08'42
minimum elong	-655 Jun 20 j 03:46	20°♊25'49	0°08'43
behind sun begin	-655 Jun 19 j 20:38	20°♊21'52	
behind sun end	-655 Jun 20 j 10:55	20°♊29'46	
max. Earth dist.	-655 Jun 21 j 03:06	20°♊38'47	6.28170 AU
morning rise	-655 Jul 03 j 18:31	23°♊26'55	
	-655 Aug 03 j 12:34	0°♋	
retrograde	-655 Nov 03 j 21:42	11°♋10'53	
opposition	-654 Jan 02 j 16:31	6°♋11'50	0°41'03
min. Earth dist.	-654 Jan 02 j 09:38	6°♋14'07	4.33695 AU
direct	-654 Mar 04 j 15:13	1°♋08'47	
evening set	-654 Jul 09 j 22:56	19°♋07'04	
conjunction	-654 Jul 23 j 08:07	22°♋02'02	0°45'36
minimum elong	-654 Jul 23 j 08:04	22°♋02'01	0°45'36
max. Earth dist.	-654 Jul 23 j 03:20	21°♋59'25	6.38177 AU
morning rise	-654 Aug 05 j 14:39	24°♋55'33	
	-654 Aug 29 j 14:04	0°♌	
retrograde	-654 Dec 04 j 13:21	12°♌00'05	
opposition	-653 Feb 02 j 14:47	7°♌04'47	1°25'47
min. Earth dist.	-653 Feb 03 j 02:19	7°♌01'01	4.41250 AU
direct	-653 Apr 05 j 17:09	2°♌01'31	
	-653 Jul 19 j 09:27	15°♌	
evening set	-653 Aug 10 j 21:33	19°♌44'43	
conjunction	-653 Aug 23 j 22:24	22°♌34'26	1°08'41
minimum elong	-653 Aug 23 j 22:22	22°♌34'25	1°08'42
max. Earth dist.	-653 Aug 22 j 17:57	22°♌18'57	6.42636 AU
morning rise	-653 Sep 05 j 20:08	25°♌22'38	
	-653 Sep 27 j 16:20	0°♍	
retrograde	-652 Jan 03 j 23:40	12°♍14'09	
opposition	-652 Mar 04 j 11:02	7°♍21'26	1°46'18
min. Earth dist.	-652 Mar 05 j 12:26	7°♍13'16	4.42502 AU
direct	-652 May 06 j 02:27	2°♍19'09	
evening set	-652 Sep 09 j 21:43	20°♍01'20	
max. Earth dist.	-652 Sep 20 j 21:00	22°♍25'32	6.40494 AU
conjunction	-652 Sep 22 j 15:51	22°♍49'06	1°12'45
minimum elong	-652 Sep 22 j 15:52	22°♍49'06	1°12'45
morning rise	-652 Oct 05 j 07:19	25°♍35'43	
	-652 Oct 25 j 20:24	0°♎	
retrograde	-651 Feb 03 j 06:38	12°♎41'17	
opposition	-651 Apr 05 j 01:31	7°♎49'39	1°37'58
min. Earth dist.	-651 Apr 06 j 11:18	7°♎38'53	4.37149 AU
direct	-651 Jun 06 j 15:41	2°♎49'22	
evening set	-651 Oct 10 j 18:27	20°♎44'25	
max. Earth dist.	-651 Oct 21 j 09:30	23°♎07'13	6.32289 AU
conjunction	-651 Oct 23 j 09:15	23°♎34'04	0°56'29
minimum elong	-651 Oct 23 j 09:18	23°♎34'05	0°56'28
morning rise	-651 Nov 04 j 22:46	26°♎23'13	
	-651 Nov 21 j 08:14	0°♏	
retrograde	-650 Mar 08 j 04:06	14°♏08'01	
opposition	-650 May 08 j 03:00	9°♏15'40	1°01'03
min. Earth dist.	-650 May 09 j 10:55	9°♏05'29	4.26534 AU
direct	-650 Jul 08 j 23:03	4°♏17'58	
	-650 Oct 07 j 12:14	15°♏	
evening set	-650 Nov 11 j 08:43	22°♏37'54	
max. Earth dist.	-650 Nov 22 j 11:32	25°♏11'31	6.20177 AU
conjunction	-650 Nov 24 j 00:08	25°♏32'41	0°22'52
minimum elong	-650 Nov 24 j 00:10	25°♏32'42	0°22'52
morning rise	-650 Dec 06 j 15:27	28°♏27'43	
	-650 Dec 13 j 08:53	0°♐	
retrograde	-649 Apr 12 j 03:34	17°♐10'36	
opposition	-649 Jun 12 j 00:59	12°♐16'01	0°02'43
min. Earth dist.	-649 Jun 12 j 20:46	12°♐09'39	4.13697 AU

Attention, astronomical year style is used: The year -649 in astronomical counting style is the year 650 BCE in historical counting style.

desc. node	-649 Jun 28 j 22:39	10°♐09'40		
direct	-649 Aug 11 j 14:48	7°♐21'00		
evening set	-649 Dec 14 j 11:56	26°♐12'24		
conjunction	-649 Dec 27 j 06:48	29°♐13'57	-0°19'35	
minimum elong	-649 Dec 27 j 06:47	29°♐13'56	0°19'36	
max. Earth dist.	-649 Dec 26 j 15:12	29°♐04'42	6.07782 AU	
	-649 Dec 30 j 12:28	0°♑		
morning rise	-648 Jan 09 j 03:32	2°♑16'38		
retrograde	-648 May 18 j 01:22	22°♑01'34		
opposition	-648 Jul 17 j 15:06	17°♑03'23	-0°59'58	
min. Earth dist.	-648 Jul 17 j 14:31	17°♑03'35	4.02819 AU	
direct	-648 Sep 14 j 19:08	12°♑09'56		
	-647 Jan 11 j 07:11	0°♒		
evening set	-647 Jan 17 j 13:44	1°♒29'33		
conjunction	-647 Jan 30 j 14:51	4°♒37'27	-0°56'29	
minimum elong	-647 Jan 30 j 14:49	4°♒37'25	0°56'29	
max. Earth dist.	-647 Jan 31 j 06:31	4°♒46'52	5.99409 AU	
morning rise	-647 Feb 12 j 18:42	7°♒46'58		
	-647 Mar 16 j 01:00	15°♒		
retrograde	-647 Jun 24 j 22:07	28°♒13'13		
min. Earth dist.	-647 Aug 23 j 04:40	23°♒17'40	3.97959 AU	
opposition	-647 Aug 24 j 00:15	23°♒11'06	-1°42'11	
direct	-647 Oct 21 j 04:24	18°♒17'19		
	-646 Jan 20 j 06:11	0°♓		
evening set	-646 Feb 23 j 06:56	7°♓49'02		
conjunction	-646 Mar 08 j 15:33	11°♓00'44	-1°12'29	
minimum elong	-646 Mar 08 j 15:33	11°♓00'44	1°12'28	
max. Earth dist.	-646 Mar 10 j 08:45	11°♓25'24	5.98397 AU	
morning rise	-646 Mar 22 j 03:30	14°♓14'06		
	-646 Jun 06 j 11:49	0°♈		
retrograde	-646 Aug 01 j 02:26	4°♈38'27		
	-646 Sep 26 j 14:37	30°℞♓		
opposition	-646 Sep 29 j 20:15	29°♓33'37	-1°44'34	
min. Earth dist.	-646 Sep 28 j 12:08	29°♓44'32	4.01049 AU	
direct	-646 Nov 26 j 18:51	24°♓37'31		
	-645 Jan 24 j 16:41	0°♈		
evening set	-645 Apr 01 j 14:03	13°♈58'36		
conjunction	-645 Apr 15 j 05:45	17°♈10'22	-1°00'34	
minimum elong	-645 Apr 15 j 05:48	17°♈10'24	1°00'33	
max. Earth dist.	-645 Apr 17 j 09:07	17°♈40'28	6.05215 AU	
morning rise	-645 Apr 28 j 23:42	20°♈23'05		
	-645 Jun 11 j 18:02	0°♉		
retrograde	-645 Sep 05 j 12:42	10°♉02'35		
min. Earth dist.	-645 Nov 02 j 18:46	5°♉08'06	4.10785 AU	
opposition	-645 Nov 04 j 01:19	4°♉57'40	-1°07'40	
	-645 Dec 28 j 17:37	30°℞♈		
direct	-644 Jan 01 j 16:45	29°♈58'23		
	-644 Jan 05 j 16:00	0°♉		
	-644 Apr 19 j 21:01	15°♉		
evening set	-644 May 07 j 04:25	18°♉51'51		
conjunction	-644 May 20 j 23:07	21°♉59'41	-0°26'58	
minimum elong	-644 May 20 j 23:09	21°♉59'42	0°26'58	
max. Earth dist.	-644 May 22 j 18:01	22°♉24'06	6.17049 AU	
morning rise	-644 Jun 03 j 17:55	25°♉07'21		
	-644 Jun 25 j 19:58	0°♊		
retrograde	-644 Oct 07 j 17:45	13°♊42'38		
min. Earth dist.	-644 Dec 05 j 11:15	8°♊47'15	4.23451 AU	
opposition	-644 Dec 06 j 07:51	8°♊40'18	-0°09'29	
direct	-643 Feb 04 j 03:02	3°♊38'29		
asc. node	-643 Feb 05 j 22:23	3°♊38'48		
evening set	-643 Jun 11 j 05:23	22°♊00'03		
conjunction	-643 Jun 24 j 20:49	25°♊01'09	0°14'20	
minimum elong	-643 Jun 24 j 20:48	25°♊01'09	0°14'20	
behind sun begin	-643 Jun 24 j 17:14	24°♊59'11		
behind sun end	-643 Jun 25 j 00:21	25°♊03'07		
max. Earth dist.	-643 Jun 25 j 15:03	25°♊11'16	6.29584 AU	
morning rise	-643 Jul 08 j 10:45	28°♊01'16		
	-643 Jul 17 j 12:14	0°♋		
retrograde	-643 Nov 08 j 06:22	15°♋39'12		
opposition	-642 Jan 07 j 01:01	10°♋40'41	0°48'27	
min. Earth dist.	-642 Jan 06 j 21:34	10°♋41'49	4.34813 AU	
direct	-642 Mar 09 j 04:54	5°♋37'30		
evening set	-642 Jul 14 j 11:52	23°♋33'43		
conjunction	-642 Jul 27 j 20:06	26°♋27'58	0°49'49	
minimum elong	-642 Jul 27 j 20:03	26°♋27'56	0°49'49	
max. Earth dist.	-642 Jul 27 j 12:44	26°♋23'57	6.38914 AU	
morning rise	-642 Aug 10 j 01:19	29°♋20'40		
	-642 Aug 13 j 02:04	0°♌		
	-642 Nov 09 j 01:57	15°♌		
retrograde	-642 Dec 08 j 18:28	16°♌22'35		
	-641 Jan 07 j 10:58	15°℞♌		
opposition	-641 Feb 06 j 22:16	11°♌27'43	1°30'17	
min. Earth dist.	-641 Feb 07 j 10:58	11°♌23'35	4.41598 AU	
direct	-641 Apr 10 j 02:01	6°♌24'34		
	-641 Jul 01 j 06:39	15°♌		
evening set	-641 Aug 15 j 07:21	24°♌07'33		
max. Earth dist.	-641 Aug 27 j 00:20	26°♌40'06	6.42576 AU	
conjunction	-641 Aug 28 j 07:04	26°♌56'50	1°10'28	
minimum elong	-641 Aug 28 j 07:02	26°♌56'49	1°10'28	
morning rise	-641 Sep 10 j 03:47	29°♌44'40		
	-641 Sep 11 j 08:09	0°♍		
retrograde	-640 Jan 08 j 08:49	16°♍37'00		
opposition	-640 Mar 08 j 20:40	11°♍44'36	1°46'54	
min. Earth dist.	-640 Mar 09 j 23:55	11°♍35'51	4.42066 AU	
direct	-640 May 10 j 13:41	6°♍42'38		
evening set	-640 Sep 14 j 06:00	24°♍25'53		
max. Earth dist.	-640 Sep 25 j 03:03	26°♍49'14	6.39722 AU	
conjunction	-640 Sep 26 j 23:27	27°♍13'42	1°11'40	
minimum elong	-640 Sep 26 j 23:28	27°♍13'42	1°11'40	
morning rise	-640 Oct 09 j 14:28	0°♎00'26		
	-640 Oct 09 j 13:42	0°♎		
retrograde	-639 Feb 07 j 18:51	17°♎09'50		
opposition	-639 Apr 09 j 15:05	12°♎18'10	1°34'24	
min. Earth dist.	-639 Apr 11 j 00:09	12°♎07'38	4.36105 AU	
direct	-639 Jun 11 j 03:20	7°♎18'16		
evening set	-639 Oct 15 j 03:33	25°♎15'22		
max. Earth dist.	-639 Oct 25 j 21:09	27°♎40'00	6.31078 AU	
conjunction	-639 Oct 27 j 18:17	28°♎05'26	0°52'41	
minimum elong	-639 Oct 27 j 18:19	28°♎05'28	0°52'40	
	-639 Nov 05 j 05:33	0°♏		
morning rise	-639 Nov 09 j 07:37	0°♏55'04		
	-638 Jan 21 j 04:07	15°♏		
retrograde	-638 Mar 12 j 21:41	18°♏45'48		
	-638 May 04 j 01:55	15°℞♏		
opposition	-638 May 12 j 21:22	13°♏53'16	0°53'55	
min. Earth dist.	-638 May 14 j 04:11	13°♏43'27	4.25220 AU	
direct	-638 Jul 13 j 14:41	8°♏56'02		
	-638 Sep 17 j 06:45	15°♏		
evening set	-638 Nov 15 j 20:52	27°♏18'29		
max. Earth dist.	-638 Nov 27 j 01:06	29°♏53'27	6.18875 AU	
	-638 Nov 27 j 12:24	0°♐		
conjunction	-638 Nov 28 j 12:23	0°♐13'54	0°17'16	
minimum elong	-638 Nov 28 j 12:24	0°♐13'54	0°17'15	

Attention, astronomical year style is used: The year -638 in astronomical counting style is the year 639 BCE in historical counting style.

morning rise	-638 Dec 11 j 04:20	3°♐09'44	
retrograde	-637 Apr 17 j 02:11	21°♐59'30	
desc. node	-637 May 09 j 19:43	21°♐11'34	
opposition	-637 Jun 16 j 23:51	17°♐04'28	-0°06'08
min. Earth dist.	-637 Jun 17 j 16:36	16°♐59'04	4.12492 AU
direct	-637 Aug 16 j 09:21	12°♐09'44	
	-637 Dec 14 j 15:59	0°♑	
evening set	-637 Dec 19 j 04:16	1°♑03'36	
conjunction	-637 Dec 31 j 23:54	4°♑05'52	-0°25'18
minimum elong	-637 Dec 31 j 23:53	4°♑05'51	0°25'18
max. Earth dist.	-637 Dec 31 j 13:18	3°♑59'35	6.06791 AU
morning rise	-636 Jan 13 j 21:16	7°♑09'18	
retrograde	-636 May 23 j 04:45	26°♑59'56	
opposition	-636 Jul 22 j 16:36	22°♑01'16	-1°07'24
min. Earth dist.	-636 Jul 22 j 14:16	22°♑02'02	4.02141 AU
direct	-636 Sep 19 j 17:20	17°♑07'55	
	-636 Dec 25 j 12:58	0°♒	
evening set	-635 Jan 22 j 10:59	6°♒28'58	
conjunction	-635 Feb 04 j 12:50	9°♒37'22	-1°00'07
minimum elong	-635 Feb 04 j 12:48	9°♒37'21	1°00'07
max. Earth dist.	-635 Feb 05 j 06:33	9°♒48'01	5.99082 AU
morning rise	-635 Feb 17 j 17:51	12°♒47'29	
	-635 Feb 27 j 01:26	15°♒	
	-635 May 14 j 17:59	0°♓	
retrograde	-635 Jun 29 j 22:36	3°♓15'24	
	-635 Aug 15 j 10:22	30°℞♒	
min. Earth dist.	-635 Aug 28 j 02:22	28°♒20'20	3.98050 AU
opposition	-635 Aug 29 j 00:34	28°♒12'53	-1°45'00
direct	-635 Oct 26 j 02:14	23°♒18'54	
	-635 Dec 31 j 04:24	0°♓	
evening set	-634 Feb 28 j 07:11	12°♓50'19	
conjunction	-634 Mar 13 j 16:53	16°♓02'17	-1°12'29
minimum elong	-634 Mar 13 j 16:54	16°♓02'17	1°12'29
max. Earth dist.	-634 Mar 15 j 11:40	16°♓27'50	5.98889 AU
morning rise	-634 Mar 27 j 05:44	19°♓15'49	
	-634 May 14 j 13:10	0°♈	
retrograde	-634 Aug 06 j 00:43	9°♈36'48	
min. Earth dist.	-634 Oct 03 j 09:20	4°♈42'32	4.01883 AU
opposition	-634 Oct 04 j 16:44	4°♈31'50	-1°41'37
	-634 Nov 16 j 06:21	30°℞♓	
direct	-634 Dec 01 j 17:16	29°♓35'19	
	-634 Dec 17 j 04:12	0°♈	
evening set	-633 Apr 06 j 14:07	18°♈54'20	
conjunction	-633 Apr 20 j 06:41	22°♈06'00	-0°57'01
minimum elong	-633 Apr 20 j 06:44	22°♈06'01	0°57'00
max. Earth dist.	-633 Apr 22 j 10:36	22°♈36'19	6.06329 AU
morning rise	-633 May 04 j 01:08	25°♈18'26	
	-633 May 24 j 16:55	0°♉	
retrograde	-633 Sep 10 j 04:18	14°♉51'09	
min. Earth dist.	-633 Nov 07 j 10:33	9°♉56'45	4.12069 AU
opposition	-633 Nov 08 j 16:34	9°♉46'31	-1°00'32
direct	-632 Jan 06 j 09:49	4°♉46'55	
	-632 Apr 02 j 01:10	15°♉	
evening set	-632 May 12 j 01:44	23°♉37'31	
conjunction	-632 May 25 j 20:15	26°♉44'43	-0°21'28
minimum elong	-632 May 25 j 20:17	26°♉44'44	0°21'27
max. Earth dist.	-632 May 27 j 11:06	27°♉06'45	6.18404 AU
morning rise	-632 Jun 08 j 14:57	29°♉51'43	
	-632 Jun 09 j 05:42	0°♊	
retrograde	-632 Oct 12 j 04:30	18°♊19'56	
opposition	-632 Dec 10 j 18:35	13°♊18'04	-0°01'07
min. Earth dist.	-632 Dec 10 j 00:29	13°♊24'10	4.24761 AU
asc. node	-632 Dec 17 j 23:10	12°♊20'15	
direct	-631 Feb 08 j 18:37	8°♊16'00	
evening set	-631 Jun 15 j 22:15	26°♊34'55	
conjunction	-631 Jun 29 j 13:07	29°♊35'16	0°19'48
minimum elong	-631 Jun 29 j 13:05	29°♊35'15	0°19'48
max. Earth dist.	-631 Jun 30 j 05:37	29°♊44'24	6.30771 AU
	-631 Jul 01 j 09:50	0°♋	
morning rise	-631 Jul 13 j 01:54	2°♋34'27	
retrograde	-631 Nov 12 j 12:33	20°♋07'01	
opposition	-630 Jan 11 j 08:49	15°♋09'01	0°55'27
min. Earth dist.	-630 Jan 11 j 06:35	15°♋09'46	4.35805 AU
direct	-630 Mar 13 j 15:43	10°♋05'48	
evening set	-630 Jul 19 j 00:17	28°♋00'08	
	-630 Jul 28 j 04:56	0°♌	
conjunction	-630 Aug 01 j 07:13	0°♌53'35	0°53'42
minimum elong	-630 Aug 01 j 07:10	0°♌53'33	0°53'42
max. Earth dist.	-630 Jul 31 j 19:40	0°♌47'17	6.39624 AU
morning rise	-630 Aug 14 j 11:22	3°♌45'32	
	-630 Oct 10 j 14:17	15°♌	
retrograde	-630 Dec 13 j 01:32	20°♌44'50	
opposition	-629 Feb 11 j 05:41	15°♌50'19	1°34'13
min. Earth dist.	-629 Feb 11 j 21:06	15°♌45'19	4.41990 AU
	-629 Feb 17 j 17:10	15°℞♌	
direct	-629 Apr 14 j 13:18	10°♌47'12	
	-629 Jun 08 j 21:24	15°♌	
evening set	-629 Aug 19 j 15:52	28°♌29'18	
	-629 Aug 26 j 15:08	0°♍	
max. Earth dist.	-629 Aug 31 j 06:32	1°♍00'39	6.42591 AU
conjunction	-629 Sep 01 j 14:41	1°♍18'10	1°11'50
minimum elong	-629 Sep 01 j 14:40	1°♍18'09	1°11'50
morning rise	-629 Sep 14 j 10:19	4°♍05'34	
retrograde	-628 Jan 12 j 14:56	20°♍58'23	
opposition	-628 Mar 13 j 05:23	16°♍06'05	1°46'53
min. Earth dist.	-628 Mar 14 j 08:52	15°♍57'16	4.41700 AU
direct	-628 May 14 j 22:09	11°♍04'17	
evening set	-628 Sep 18 j 13:02	28°♍48'10	
	-628 Sep 23 j 23:53	0°♎	
max. Earth dist.	-628 Sep 29 j 09:03	1°♎11'15	6.38974 AU
conjunction	-628 Oct 01 j 05:49	1°♎35'59	1°10'10
minimum elong	-628 Oct 01 j 05:50	1°♎36'00	1°10'09
morning rise	-628 Oct 13 j 20:18	4°♎22'48	
retrograde	-627 Feb 12 j 06:41	21°♎35'55	
opposition	-627 Apr 14 j 03:28	16°♎44'12	1°30'18
min. Earth dist.	-627 Apr 15 j 13:41	16°♎33'19	4.34986 AU
direct	-627 Jun 15 j 15:16	11°♎44'34	
evening set	-627 Oct 19 j 11:30	29°♎44'00	
	-627 Oct 20 j 16:02	0°♏	
max. Earth dist.	-627 Oct 30 j 04:26	2°♏08'47	6.29657 AU
conjunction	-627 Nov 01 j 02:06	2°♏34'36	0°48'35
minimum elong	-627 Nov 01 j 02:08	2°♏34'37	0°48'35
morning rise	-627 Nov 13 j 15:40	5°♏24'53	
	-627 Dec 29 j 02:24	15°♏	
retrograde	-626 Mar 17 j 14:39	23°♏22'27	
opposition	-626 May 17 j 15:07	18°♏29'35	0°46'25
min. Earth dist.	-626 May 18 j 20:06	18°♏20'20	4.23572 AU
	-626 Jun 17 j 02:01	15°℞♏	
direct	-626 Jul 18 j 04:06	13°♏32'38	
	-626 Aug 18 j 02:13	15°♏	
	-626 Nov 11 j 16:52	0°♐	
evening set	-626 Nov 20 j 08:41	1°♐58'57	
max. Earth dist.	-626 Dec 01 j 17:02	4°♐36'51	6.17147 AU

Attention, astronomical year style is used: The year -626 in astronomical counting style is the year 627 BCE in historical counting style.

conjunction	-626 Dec 03 j 00:41	4°♐55'15	0°11'31	
minimum elong	-626 Dec 03 j 00:42	4°♐55'15	0°11'30	
behind sun begin	-626 Dec 02 j 18:51	4°♐51'53		
behind sun end	-626 Dec 03 j 06:32	4°♐58'38		
morning rise	-626 Dec 15 j 17:05	7°♐52'03		
desc. node	-625 Mar 20 j 05:58	25°♐11'18		
retrograde	-625 Apr 22 j 04:04	26°♐50'27		
opposition	-625 Jun 21 j 23:30	21°♐54'59	-0°15'05	
min. Earth dist.	-625 Jun 22 j 14:59	21°♐49'58	4.10807 AU	
direct	-625 Aug 21 j 05:02	17°♐00'29		
	-625 Nov 27 j 22:34	0°♑		
evening set	-625 Dec 23 j 22:34	5°♑58'47		
conjunction	-624 Jan 05 j 18:51	9°♑01'59	-0°30'57	
minimum elong	-624 Jan 05 j 18:49	9°♑01'58	0°30'57	
max. Earth dist.	-624 Jan 05 j 10:34	8°♑57'04	6.05294 AU	
morning rise	-624 Jan 18 j 17:19	12°♑06'31		
	-624 Apr 21 j 15:14	0°♒		
retrograde	-624 May 28 j 08:37	2°♒04'35		
	-624 Jul 04 j 04:36	30°℞♑		
opposition	-624 Jul 27 j 20:05	27°♑05'21	-1°14'34	
min. Earth dist.	-624 Jul 27 j 14:08	27°♑07'19	4.01001 AU	
direct	-624 Sep 24 j 15:37	22°♑12'01		
	-624 Dec 06 j 01:42	0°♒		
evening set	-623 Jan 27 j 11:51	11°♒36'26		
conjunction	-623 Feb 09 j 14:50	14°♒45'37	-1°03'25	
minimum elong	-623 Feb 09 j 14:48	14°♒45'36	1°03'25	
	-623 Feb 10 j 14:44	15°♒		
max. Earth dist.	-623 Feb 10 j 12:51	14°♒58'52	5.98396 AU	
morning rise	-623 Feb 22 j 20:53	17°♒56'30		
	-623 Apr 18 j 12:05	0°♓		
retrograde	-623 Jul 05 j 05:16	8°♓27'11		
min. Earth dist.	-623 Sep 02 j 05:19	3°♓32'05	3.97904 AU	
opposition	-623 Sep 03 j 04:43	3°♓24'12	-1°47'08	
	-623 Oct 01 j 06:13	30°℞♒		
direct	-623 Oct 31 j 05:41	28°♒29'57		
	-623 Nov 30 j 01:46	0°♓		
evening set	-622 Mar 05 j 12:02	18°♓01'51		
conjunction	-622 Mar 18 j 22:56	21°♓14'09	-1°11'55	
minimum elong	-622 Mar 18 j 22:57	21°♓14'10	1°11'55	
max. Earth dist.	-622 Mar 20 j 21:02	21°♓41'38	5.99298 AU	
morning rise	-622 Apr 01 j 12:50	24°♓27'57		
	-622 Apr 25 j 11:29	0°♈		
retrograde	-622 Aug 11 j 02:28	14°♈45'08		
min. Earth dist.	-622 Oct 08 j 08:40	9°♈51'11	4.02827 AU	
opposition	-622 Oct 09 j 17:11	9°♈40'06	-1°37'47	
direct	-622 Dec 06 j 17:38	4°♈43'15		
evening set	-621 Apr 11 j 18:56	23°♈59'38		
conjunction	-621 Apr 25 j 12:00	27°♈10'55	-0°52'55	
minimum elong	-621 Apr 25 j 12:03	27°♈10'57	0°52'55	
max. Earth dist.	-621 Apr 27 j 14:29	27°♈40'18	6.07739 AU	
	-621 May 07 j 15:19	0°♉		
morning rise	-621 May 09 j 07:00	0°♉22'55		
	-621 Jul 20 j 09:37	15°♉		
retrograde	-621 Sep 14 j 22:06	19°♉47'11		
	-621 Nov 11 j 08:28	15°℞♉		
min. Earth dist.	-621 Nov 12 j 05:42	14°♉52'46	4.13805 AU	
opposition	-621 Nov 13 j 10:54	14°♉42'49	-0°52'46	
direct	-620 Jan 11 j 08:17	9°♉42'50		
	-620 Mar 11 j 01:45	15°♉		
evening set	-620 May 17 j 01:51	28°♉28'41		
	-620 May 23 j 20:07	0°♊		
conjunction	-620 May 30 j 20:20	1°♊35'00	-0°15'43	
minimum elong	-620 May 30 j 20:21	1°♊35'01	0°15'42	
behind sun begin	-620 May 30 j 19:46	1°♊34'41		
behind sun end	-620 May 30 j 20:57	1°♊35'20		
max. Earth dist.	-620 Jun 01 j 10:33	1°♊56'35	6.20373 AU	
morning rise	-620 Jun 13 j 14:20	4°♊40'51		
retrograde	-620 Oct 16 j 15:58	22°♊59'33		
asc. node	-620 Oct 28 j 03:36	22°♊46'26		
opposition	-620 Dec 15 j 06:40	17°♊58'14	0°07'21	
min. Earth dist.	-620 Dec 14 j 13:58	18°♊03'51	4.26778 AU	
direct	-619 Feb 13 j 11:28	12°♊55'59		
	-619 Jun 15 j 07:42	0°♋		
evening set	-619 Jun 20 j 15:24	1°♋09'36		
conjunction	-619 Jul 04 j 05:07	4°♋08'43	0°25'09	
minimum elong	-619 Jul 04 j 05:05	4°♋08'42	0°25'10	
max. Earth dist.	-619 Jul 04 j 17:07	4°♋15'20	6.32675 AU	
morning rise	-619 Jul 17 j 16:54	7°♋06'38		
retrograde	-619 Nov 16 j 18:30	24°♋31'42		
opposition	-618 Jan 15 j 16:08	19°♋34'12	1°02'01	
min. Earth dist.	-618 Jan 15 j 16:34	19°♋34'03	4.37461 AU	
direct	-618 Mar 18 j 04:04	14°♋30'53		
	-618 Jul 12 j 10:43	0°♌		
evening set	-618 Jul 23 j 10:23	2°♌21'04		
conjunction	-618 Aug 05 j 16:12	5°♌13'30	0°57'11	
minimum elong	-618 Aug 05 j 16:10	5°♌13'29	0°57'11	
max. Earth dist.	-618 Aug 05 j 02:39	5°♌06'07	6.40898 AU	
morning rise	-618 Aug 18 j 18:50	8°♌04'23		
	-618 Sep 21 j 03:09	15°♌		
retrograde	-618 Dec 17 j 03:30	24°♌59'37		
opposition	-617 Feb 15 j 10:22	20°♌05'31	1°37'28	
min. Earth dist.	-617 Feb 16 j 03:16	20°♌00'03	4.42808 AU	
direct	-617 Apr 18 j 20:03	15°♌02'33		
	-617 Aug 11 j 04:42	0°♍		
evening set	-617 Aug 23 j 21:07	2°♍42'37		
max. Earth dist.	-617 Sep 04 j 06:34	5°♍11'13	6.42864 AU	
conjunction	-617 Sep 05 j 18:43	5°♍30'56	1°12'44	
minimum elong	-617 Sep 05 j 18:42	5°♍30'55	1°12'44	
morning rise	-617 Sep 18 j 13:31	8°♍17'52		
retrograde	-616 Jan 16 j 20:09	25°♍10'50		
opposition	-616 Mar 17 j 10:58	20°♍18'45	1°46'15	
min. Earth dist.	-616 Mar 18 j 17:17	20°♍09'03	4.41402 AU	
direct	-616 May 19 j 05:23	15°♍17'08		
	-616 Sep 08 j 16:34	0°♎		
evening set	-616 Sep 22 j 16:06	3°♎01'42		
max. Earth dist.	-616 Oct 03 j 10:04	5°♎23'58	6.38107 AU	
conjunction	-616 Oct 05 j 08:28	5°♎49'39	1°08'19	
minimum elong	-616 Oct 05 j 08:30	5°♎49'40	1°08'18	
morning rise	-616 Oct 17 j 22:33	8°♎36'41		
retrograde	-615 Feb 16 j 14:24	25°♎54'25		
opposition	-615 Apr 18 j 12:48	21°♎02'39	1°25'49	
min. Earth dist.	-615 Apr 19 j 22:47	20°♎51'50	4.33588 AU	
direct	-615 Jun 19 j 21:22	16°♎03'19		
	-615 Oct 05 j 02:27	0°♏		
evening set	-615 Oct 23 j 16:41	4°♏06'23		
max. Earth dist.	-615 Nov 03 j 10:21	6°♏32'10	6.27839 AU	
conjunction	-615 Nov 05 j 07:17	6°♏57'42	0°44'18	
minimum elong	-615 Nov 05 j 07:19	6°♏57'43	0°44'18	
morning rise	-615 Nov 17 j 21:01	9°♏48'50		
	-615 Dec 11 j 08:57	15°♏		
retrograde	-614 Mar 22 j 08:36	27°♏55'02		
opposition	-614 May 22 j 07:07	23°♏01'59	0°38'50	
min. Earth dist.	-614 May 23 j 12:24	22°♏52'37	4.21425 AU	
direct	-614 Jul 22 j 16:41	18°♏05'20		

Attention, astronomical year style is used: The year -614 in astronomical counting style is the year 615 BCE in historical counting style.

	-614 Oct 26 j 04:54	0°♐	
evening set	-614 Nov 24 j 19:42	6°♐37'41	
max. Earth dist.	-614 Dec 06 j 05:32	9°♐17'14	6.14862 AU
conjunction	-614 Dec 07 j 12:13	9°♐35'10	0°05'48
minimum elong	-614 Dec 07 j 12:13	9°♐35'10	0°05'47
behind sun begin	-614 Dec 07 j 04:33	9°♐30'42	
behind sun end	-614 Dec 07 j 19:53	9°♐39'37	
morning rise	-614 Dec 20 j 05:29	12°♐33'17	
desc. node	-613 Jan 29 j 18:18	21°♐30'04	
	-613 Mar 24 j 18:29	0°♑	
retrograde	-613 Apr 27 j 04:11	1°♑42'35	
	-613 May 30 j 17:46	30°℞♐	
opposition	-613 Jun 26 j 23:03	26°♐46'40	-0°23'52
min. Earth dist.	-613 Jun 27 j 11:13	26°♐42'43	4.08578 AU
direct	-613 Aug 25 j 21:44	21°♐52'26	
	-613 Nov 09 j 00:27	0°♑	
evening set	-613 Dec 28 j 18:00	10°♑57'28	
conjunction	-612 Jan 10 j 15:15	14°♑01'57	-0°36'21
minimum elong	-612 Jan 10 j 15:13	14°♑01'55	0°36'22
max. Earth dist.	-612 Jan 10 j 11:37	13°♑59'47	6.03329 AU
morning rise	-612 Jan 23 j 14:44	17°♑07'49	
	-612 Mar 23 j 02:12	0°♒	
retrograde	-612 Jun 02 j 17:19	7°♒15'15	
opposition	-612 Aug 02 j 01:43	2°♒15'27	-1°21'12
min. Earth dist.	-612 Aug 01 j 17:29	2°♒18'11	3.99505 AU
	-612 Aug 19 j 19:43	30°℞♑	
direct	-612 Sep 29 j 18:09	27°♑22'07	
	-612 Nov 08 j 22:27	0°♒	
	-611 Jan 24 j 20:59	15°♒	
evening set	-611 Feb 01 j 15:31	16°♒51'07	
conjunction	-611 Feb 14 j 19:43	20°♒01'15	-1°06'13
minimum elong	-611 Feb 14 j 19:41	20°♒01'14	1°06'12
max. Earth dist.	-611 Feb 15 j 22:50	20°♒17'35	5.97509 AU
morning rise	-611 Feb 28 j 03:01	23°♒13'05	
	-611 Mar 29 j 08:52	0°♓	
retrograde	-611 Jul 10 j 13:46	13°♓46'33	
min. Earth dist.	-611 Sep 07 j 08:52	8°♓51'59	3.97761 AU
opposition	-611 Sep 08 j 11:09	8°♓43'07	-1°48'21
direct	-611 Nov 05 j 09:27	3°♓48'36	
evening set	-610 Mar 10 j 20:10	23°♓20'42	
conjunction	-610 Mar 24 j 08:02	26°♓33'12	-1°10'43
minimum elong	-610 Mar 24 j 08:03	26°♓33'13	1°10'43
max. Earth dist.	-610 Mar 26 j 07:40	27°♓01'33	5.99876 AU
morning rise	-610 Apr 06 j 23:01	29°♓47'10	
	-610 Apr 07 j 20:48	0°♈	
retrograde	-610 Aug 16 j 03:52	19°♈59'05	
min. Earth dist.	-610 Oct 13 j 09:42	15°♈05'14	4.04035 AU
opposition	-610 Oct 14 j 19:08	14°♈53'49	-1°33'03
direct	-610 Dec 11 j 21:51	9°♈56'26	
evening set	-609 Apr 17 j 01:10	29°♈08'51	
	-609 Apr 20 j 17:49	0°♉	
conjunction	-609 Apr 30 j 18:55	2°♉19'38	-0°48'21
minimum elong	-609 Apr 30 j 18:59	2°♉19'39	0°48'21
max. Earth dist.	-609 May 02 j 22:23	2°♉49'27	6.09453 AU
morning rise	-609 May 14 j 13:59	5°♉30'52	
	-609 Jun 27 j 06:23	15°♉	
retrograde	-609 Sep 19 j 17:40	24°♉45'17	
min. Earth dist.	-609 Nov 17 j 02:01	19°♉50'37	4.15788 AU
opposition	-609 Nov 18 j 05:52	19°♉41'09	-0°44'32
	-608 Jan 02 j 10:55	15°℞♉	
direct	-608 Jan 16 j 08:01	14°♉40'45	
	-608 Jan 30 j 06:45	15°♉	
	-608 May 06 j 22:29	0°♊	
evening set	-608 May 22 j 02:16	3°♊20'55	
conjunction	-608 Jun 04 j 20:14	6°♊26'08	-0°09'47
minimum elong	-608 Jun 04 j 20:15	6°♊26'08	0°09'47
behind sun begin	-608 Jun 04 j 13:29	6°♊22'22	
behind sun end	-608 Jun 05 j 03:00	6°♊29'55	
max. Earth dist.	-608 Jun 06 j 06:44	6°♊45'31	6.22427 AU
morning rise	-608 Jun 18 j 13:42	9°♊30'49	
asc. node	-608 Sep 06 j 05:07	24°♊34'35	
retrograde	-608 Oct 21 j 02:34	27°♊39'59	
opposition	-608 Dec 19 j 18:56	22°♊39'06	0°15'51
min. Earth dist.	-608 Dec 19 j 04:12	22°♊44'03	4.28716 AU
direct	-607 Feb 18 j 04:22	17°♊36'33	
	-607 May 29 j 06:01	0°♋	
evening set	-607 Jun 25 j 08:48	5°♋45'24	
conjunction	-607 Jul 08 j 21:34	8°♋43'23	0°30'27
minimum elong	-607 Jul 08 j 21:32	8°♋43'22	0°30'27
max. Earth dist.	-607 Jul 09 j 06:25	8°♋48'14	6.34349 AU
morning rise	-607 Jul 22 j 07:57	11°♋40'04	
retrograde	-607 Nov 21 j 01:41	28°♋58'38	
opposition	-606 Jan 20 j 00:20	24°♋01'42	1°08'24
min. Earth dist.	-606 Jan 20 j 03:20	24°♋00'42	4.38759 AU
direct	-606 Mar 22 j 16:12	18°♋58'21	
	-606 Jun 25 j 08:36	0°♌	
evening set	-606 Jul 27 j 21:57	6°♌45'42	
max. Earth dist.	-606 Aug 09 j 07:45	9°♌27'08	6.41702 AU
conjunction	-606 Aug 10 j 02:26	9°♌37'17	1°00'29
minimum elong	-606 Aug 10 j 02:23	9°♌37'16	1°00'29
morning rise	-606 Aug 23 j 03:59	12°♌27'22	
	-606 Sep 04 j 01:22	15°♌	
retrograde	-606 Dec 21 j 10:29	29°♌20'18	
opposition	-605 Feb 19 j 17:59	24°♌26'33	1°40'23
min. Earth dist.	-605 Feb 20 j 13:45	24°♌20'10	4.43097 AU
direct	-605 Apr 23 j 06:03	19°♌23'38	
	-605 Jul 25 j 04:49	0°♍	
evening set	-605 Aug 28 j 05:00	7°♍03'18	
max. Earth dist.	-605 Sep 08 j 12:33	9°♍30'59	6.42608 AU
conjunction	-605 Sep 10 j 01:50	9°♍51'21	1°13'20
minimum elong	-605 Sep 10 j 01:50	9°♍51'20	1°13'20
morning rise	-605 Sep 22 j 19:35	12°♍38'00	
retrograde	-604 Jan 21 j 04:03	29°♍32'52	
opposition	-604 Mar 21 j 20:48	24°♍40'56	1°45'07
min. Earth dist.	-604 Mar 23 j 03:46	24°♍31'03	4.40631 AU
direct	-604 May 23 j 14:01	19°♍39'37	
	-604 Aug 22 j 14:34	0°♎	
evening set	-604 Sep 26 j 23:54	7°♎26'13	
max. Earth dist.	-604 Oct 07 j 15:50	9°♎47'52	6.36872 AU
conjunction	-604 Oct 09 j 15:40	10°♎14'27	1°06'03
minimum elong	-604 Oct 09 j 15:42	10°♎14'28	1°06'03
morning rise	-604 Oct 22 j 05:34	13°♎01'53	
	-603 Feb 04 j 17:41	0°♏	
retrograde	-603 Feb 21 j 06:26	0°♏25'25	
	-603 Mar 09 j 18:10	30°℞♎	
opposition	-603 Apr 23 j 03:55	25°♎33'36	1°20'38
min. Earth dist.	-603 Apr 24 j 14:56	25°♎22'28	4.31953 AU
direct	-603 Jun 24 j 10:44	20°♎34'36	
	-603 Sep 17 j 08:56	0°♏	
evening set	-603 Oct 28 j 03:11	8°♏41'49	
max. Earth dist.	-603 Nov 07 j 22:00	11°♏08'53	6.25946 AU
conjunction	-603 Nov 09 j 18:00	11°♏33'59	0°39'33
minimum elong	-603 Nov 09 j 18:02	11°♏34'00	0°39'32

Attention, astronomical year style is used: The year -603 in astronomical counting style is the year 604 BCE in historical counting style.

morning rise	-603 Nov 22 j 08:02	14°♏26'02	
	-603 Nov 24 j 20:00	15°♏	
	-602 Feb 12 j 20:48	0°♐	
retrograde	-602 Mar 27 j 06:13	2°♐41'06	
	-602 May 09 j 07:30	30°℞♏	
opposition	-602 May 27 j 05:05	27°♏47'46	0°30'31
min. Earth dist.	-602 May 28 j 07:43	27°♏39'14	4.19415 AU
direct	-602 Jul 27 j 08:47	22°♏51'34	
	-602 Oct 06 j 13:34	0°♐	
evening set	-602 Nov 29 j 12:04	11°♐29'12	
desc. node	-602 Dec 08 j 23:27	13°♐42'09	
max. Earth dist.	-602 Dec 11 j 02:04	14°♐11'52	6.12927 AU
conjunction	-602 Dec 12 j 05:04	14°♐27'43	-0°00'22
minimum elong	-602 Dec 12 j 05:03	14°♐27'43	0°00'22
behind sun begin	-602 Dec 11 j 21:04	14°♐23'03	
behind sun end	-602 Dec 12 j 13:03	14°♐32'23	
morning rise	-602 Dec 24 j 23:03	17°♐27'00	
	-601 Feb 22 j 04:04	0°♑	
retrograde	-601 May 02 j 10:55	6°♑45'55	
opposition	-601 Jul 02 j 03:41	1°♑49'32	-0°32'55
min. Earth dist.	-601 Jul 02 j 13:35	1°♑46'19	4.06897 AU
	-601 Jul 16 j 13:04	30°℞♐	
direct	-601 Aug 30 j 22:28	26°♐55'36	
	-601 Oct 14 j 04:14	0°♑	
evening set	-600 Jan 02 j 17:31	16°♑05'07	
conjunction	-600 Jan 15 j 15:40	19°♑10'34	-0°41'42
minimum elong	-600 Jan 15 j 15:37	19°♑10'32	0°41'42
max. Earth dist.	-600 Jan 15 j 17:00	19°♑11'22	6.02079 AU
morning rise	-600 Jan 28 j 16:10	22°♑17'26	
	-600 Mar 02 j 07:17	0°♒	
retrograde	-600 Jun 08 j 02:22	12°♒30'50	
opposition	-600 Aug 07 j 09:06	7°♒30'32	-1°27'21
min. Earth dist.	-600 Aug 06 j 21:16	7°♒34'27	3.98872 AU
direct	-600 Oct 04 j 21:20	2°♒37'14	
	-599 Jan 07 j 02:36	15°♒	
evening set	-599 Feb 06 j 20:37	22°♒07'37	
conjunction	-599 Feb 20 j 01:43	25°♒18'10	-1°08'33
minimum elong	-599 Feb 20 j 01:42	25°♒18'09	1°08'33
max. Earth dist.	-599 Feb 21 j 08:03	25°♒36'25	5.97527 AU
morning rise	-599 Mar 05 j 10:12	28°♒30'29	
	-599 Mar 11 j 16:51	0°♓	
retrograde	-599 Jul 15 j 18:44	19°♓02'55	
min. Earth dist.	-599 Sep 12 j 11:42	14°♓08'39	3.98441 AU
opposition	-599 Sep 13 j 16:09	13°♓59'01	-1°48'42
direct	-599 Nov 10 j 13:57	9°♓04'11	
evening set	-598 Mar 16 j 02:00	28°♓33'37	
	-598 Mar 22 j 04:09	0°♈	
conjunction	-598 Mar 29 j 14:58	1°♈46'00	-1°09'01
minimum elong	-598 Mar 29 j 15:00	1°♈46'01	1°09'00
max. Earth dist.	-598 Mar 31 j 17:45	2°♈16'07	6.01148 AU
morning rise	-598 Apr 12 j 06:35	4°♈59'39	
retrograde	-598 Aug 21 j 03:43	25°♈03'56	
min. Earth dist.	-598 Oct 18 j 08:50	20°♈09'52	4.05737 AU
opposition	-598 Oct 19 j 17:36	19°♈58'42	-1°27'45
direct	-598 Dec 16 j 23:23	15°♈00'55	
	-597 Apr 03 j 20:43	0°♉	
evening set	-597 Apr 22 j 03:33	4°♉08'05	
conjunction	-597 May 05 j 21:32	7°♉18'06	-0°43'35
minimum elong	-597 May 05 j 21:35	7°♉18'08	0°43'34
max. Earth dist.	-597 May 07 j 22:52	7°♉46'32	6.11417 AU
morning rise	-597 May 19 j 16:49	10°♉28'30	
	-597 Jun 08 j 20:51	15°♉	
retrograde	-597 Sep 24 j 06:59	29°♉32'50	
opposition	-597 Nov 22 j 20:26	24°♉29'05	-0°36'19
min. Earth dist.	-597 Nov 21 j 17:36	24°♉38'12	4.17810 AU
direct	-596 Jan 21 j 02:11	19°♉28'18	
	-596 Apr 19 j 04:25	0°♊	
evening set	-596 May 26 j 22:28	8°♊03'16	
conjunction	-596 Jun 09 j 16:00	11°♊07'28	-0°04'01
minimum elong	-596 Jun 09 j 16:01	11°♊07'28	0°04'01
behind sun begin	-596 Jun 09 j 07:47	11°♊02'53	
behind sun end	-596 Jun 10 j 00:14	11°♊12'03	
max. Earth dist.	-596 Jun 10 j 22:42	11°♊24'39	6.24357 AU
morning rise	-596 Jun 23 j 08:41	14°♊10'59	
asc. node	-596 Jul 17 j 15:35	19°♊26'53	
	-596 Sep 17 j 22:12	0°♋	
retrograde	-596 Oct 25 j 12:00	2°♋11'48	
	-596 Dec 01 j 20:00	30°℞♊	
opposition	-596 Dec 24 j 03:57	27°♊11'30	0°23'56
min. Earth dist.	-596 Dec 23 j 16:28	27°♊15'21	4.30383 AU
direct	-595 Feb 22 j 18:19	22°♊08'48	
	-595 May 10 j 11:15	0°♋	
evening set	-595 Jun 29 j 22:43	10°♋14'00	
conjunction	-595 Jul 13 j 10:27	13°♋11'03	0°35'24
minimum elong	-595 Jul 13 j 10:25	13°♋11'02	0°35'24
max. Earth dist.	-595 Jul 13 j 14:40	13°♋13'22	6.35618 AU
morning rise	-595 Jul 26 j 19:46	16°♋06'46	
	-595 Oct 09 j 02:36	0°♌	
retrograde	-595 Nov 25 j 06:43	3°♌20'44	
	-594 Jan 11 j 21:41	30°℞♋	
opposition	-594 Jan 24 j 06:41	28°♋24'17	1°14'15
min. Earth dist.	-594 Jan 24 j 12:03	28°♋22'31	4.39576 AU
direct	-594 Mar 27 j 00:52	23°♋20'55	
	-594 Jun 05 j 22:11	0°♌	
evening set	-594 Aug 01 j 07:27	11°♌07'02	
conjunction	-594 Aug 14 j 10:53	13°♌58'04	1°03'22
minimum elong	-594 Aug 14 j 10:50	13°♌58'02	1°03'22
max. Earth dist.	-594 Aug 13 j 13:41	13°♌46'32	6.42009 AU
	-594 Aug 19 j 04:46	15°♌	
morning rise	-594 Aug 27 j 11:10	16°♌47'32	
	-594 Nov 05 j 21:09	0°♍	
retrograde	-594 Dec 25 j 16:46	3°♍39'57	
	-593 Feb 14 j 10:51	30°℞♌	
opposition	-593 Feb 24 j 00:59	28°♌46'36	1°42'44
min. Earth dist.	-593 Feb 24 j 22:46	28°♌39'34	4.42901 AU
direct	-593 Apr 27 j 14:18	23°♌43'53	
	-593 Jul 05 j 11:35	0°♍	
evening set	-593 Sep 01 j 12:41	11°♍24'36	
max. Earth dist.	-593 Sep 12 j 15:51	13°♍50'17	6.41911 AU
conjunction	-593 Sep 14 j 08:33	14°♍12'33	1°13'31
minimum elong	-593 Sep 14 j 08:33	14°♍12'33	1°13'30
morning rise	-593 Sep 27 j 01:45	16°♍59'14	
	-593 Dec 04 j 13:17	0°♎	
retrograde	-592 Jan 25 j 15:08	3°♎57'28	
	-592 Mar 19 j 04:15	30°℞♍	
opposition	-592 Mar 26 j 07:41	29°♍05'38	1°43'23
min. Earth dist.	-592 Mar 27 j 15:58	28°♍55'19	4.39496 AU
direct	-592 May 28 j 00:06	24°♍04'34	
	-592 Aug 02 j 09:11	0°♎	
evening set	-592 Oct 01 j 08:05	11°♎54'06	
max. Earth dist.	-592 Oct 12 j 00:56	14°♎16'44	6.35396 AU
conjunction	-592 Oct 13 j 23:43	14°♎42'49	1°03'21
minimum elong	-592 Oct 13 j 23:44	14°♎42'50	1°03'21
morning rise	-592 Oct 26 j 13:18	17°♎30'45	

Attention, astronomical year style is used: The year -592 in astronomical counting style is the year 593 BCE in historical counting style.

	-592 Dec 28 j 17:53	0°♏		
retrograde	-591 Feb 25 j 22:05	5°♏00'52		
opposition	-591 Apr 27 j 20:39	0°♏08'55	1°14'53	
min. Earth dist.	-591 Apr 29 j 06:11	29°♎58'15	4.30235 AU	
	-591 Apr 29 j 00:42	30°℞♎		
direct	-591 Jun 28 j 23:28	25°♎10'22		
	-591 Aug 26 j 12:19	0°♏		
evening set	-591 Nov 01 j 15:00	13°♏21'37		
	-591 Nov 08 j 19:38	15°♏		
max. Earth dist.	-591 Nov 12 j 11:24	15°♏50'15	6.24135 AU	
conjunction	-591 Nov 14 j 05:47	16°♏14'32	0°34'29	
minimum elong	-591 Nov 14 j 05:49	16°♏14'33	0°34'27	
morning rise	-591 Nov 26 j 20:16	19°♏07'30		
	-590 Jan 17 j 11:44	0°♐		
retrograde	-590 Apr 01 j 06:29	7°♐31'04		
opposition	-590 Jun 01 j 04:30	2°♐37'19	0°21'54	
min. Earth dist.	-590 Jun 02 j 05:24	2°♐29'20	4.17625 AU	
	-590 Jun 22 j 18:22	30°℞♏		
direct	-590 Aug 01 j 04:46	27°♏41'27		
	-590 Sep 09 j 00:43	0°♐		
desc. node	-590 Oct 18 j 04:43	6°♐09'11		
evening set	-590 Dec 04 j 05:11	16°♐23'13		
conjunction	-590 Dec 16 j 22:49	19°♐22'40	-0°06'31	
minimum elong	-590 Dec 16 j 22:49	19°♐22'40	0°06'31	
behind sun begin	-590 Dec 16 j 15:16	19°♐18'14		
behind sun end	-590 Dec 17 j 06:22	19°♐27'05		
max. Earth dist.	-590 Dec 16 j 00:00	19°♐09'14	6.11329 AU	
morning rise	-590 Dec 29 j 17:31	22°♐22'57		
	-589 Feb 01 j 13:28	0°♑		
retrograde	-589 May 07 j 15:33	11°♑49'44		
opposition	-589 Jul 07 j 08:01	6°♑52'49	-0°41'44	
min. Earth dist.	-589 Jul 07 j 14:25	6°♑50'44	4.05641 AU	
direct	-589 Sep 04 j 21:57	1°♑59'05		
evening set	-588 Jan 07 j 16:41	21°♑11'26		
conjunction	-588 Jan 20 j 15:32	24°♑17'33	-0°46'42	
minimum elong	-588 Jan 20 j 15:29	24°♑17'32	0°46'42	
max. Earth dist.	-588 Jan 20 j 20:16	24°♑20'24	6.01250 AU	
morning rise	-588 Feb 02 j 17:07	27°♑25'14		
	-588 Feb 13 j 15:09	0°♒		
	-588 May 02 j 06:28	15°♒		
retrograde	-588 Jun 13 j 08:33	17°♒42'50		
	-588 Jul 25 j 14:59	15°℞♒		
opposition	-588 Aug 12 j 14:48	12°♒41'54	-1°32'44	
min. Earth dist.	-588 Aug 12 j 00:03	12°♒46'49	3.98562 AU	
direct	-588 Oct 10 j 00:27	7°♒48'27		
	-588 Dec 17 j 21:54	15°♒		
evening set	-587 Feb 11 j 23:54	27°♒19'07		
	-587 Feb 23 j 04:12	0°♓		
conjunction	-587 Feb 25 j 06:11	0°♓30'03	-1°10'19	
minimum elong	-587 Feb 25 j 06:10	0°♓30'02	1°10'20	
max. Earth dist.	-587 Feb 26 j 17:23	0°♓51'11	5.97756 AU	
morning rise	-587 Mar 10 j 15:32	3°♓42'38		
retrograde	-587 Jul 20 j 23:08	24°♓13'04		
opposition	-587 Sep 18 j 18:39	19°♓08'51	-1°48'13	
min. Earth dist.	-587 Sep 17 j 13:44	19°♓18'39	3.99202 AU	
direct	-587 Nov 15 j 17:04	14°♓13'39		
	-586 Mar 05 j 10:31	0°♈		
evening set	-586 Mar 21 j 06:10	3°♈40'29		
conjunction	-586 Apr 03 j 19:54	6°♈52'41	-1°06'50	
minimum elong	-586 Apr 03 j 19:57	6°♈52'43	1°06'51	
max. Earth dist.	-586 Apr 05 j 22:45	7°♈22'43	6.02347 AU	
morning rise	-586 Apr 17 j 12:26	10°♈06'08		
	-586 Aug 20 j 10:22	0°♉		
retrograde	-586 Aug 25 j 23:16	0°♉03'04		
	-586 Aug 31 j 12:00	30°℞♈		
min. Earth dist.	-586 Oct 23 j 04:32	25°♈09'10	4.07250 AU	
opposition	-586 Oct 24 j 13:37	24°♈57'52	-1°21'58	
direct	-586 Dec 21 j 21:20	19°♈59'37		
	-585 Mar 16 j 15:47	0°♉		
evening set	-585 Apr 27 j 04:27	9°♉02'36		
conjunction	-585 May 10 j 22:45	12°♉12'00	-0°38'36	
minimum elong	-585 May 10 j 22:48	12°♉12'01	0°38'35	
max. Earth dist.	-585 May 12 j 21:39	12°♉38'56	6.13123 AU	
	-585 May 23 j 04:02	15°♉		
morning rise	-585 May 24 j 18:00	15°♉21'37		
	-585 Aug 06 j 12:37	0°♊		
retrograde	-585 Sep 28 j 21:45	4°♊17'08		
	-585 Nov 21 j 17:29	30°℞♉		
min. Earth dist.	-585 Nov 26 j 10:17	29°♉21'56	4.19520 AU	
opposition	-585 Nov 27 j 10:18	29°♉13'46	-0°27'59	
direct	-584 Jan 25 j 21:01	24°♉12'39		
	-584 Mar 29 j 06:42	0°♊		
asc. node	-584 May 27 j 20:46	11°♊51'54		
evening set	-584 May 31 j 18:01	12°♊43'31		
conjunction	-584 Jun 14 j 11:07	15°♊46'51	0°01'53	
minimum elong	-584 Jun 14 j 11:07	15°♊46'50	0°01'54	
behind sun begin	-584 Jun 14 j 02:47	15°♊42'12		
behind sun end	-584 Jun 14 j 19:27	15°♊51'28		
max. Earth dist.	-584 Jun 15 j 14:50	16°♊02'18	6.25939 AU	
morning rise	-584 Jun 28 j 03:01	18°♊49'22		
	-584 Aug 22 j 02:18	0°♋		
retrograde	-584 Oct 29 j 19:23	6°♋43'05		
opposition	-584 Dec 28 j 13:02	1°♋43'20	0°31'53	
min. Earth dist.	-584 Dec 28 j 03:10	1°♋46'38	4.31724 AU	
	-583 Jan 10 j 17:37	30°℞♊		
direct	-583 Feb 27 j 06:10	26°♊40'28		
	-583 Apr 16 j 04:24	0°♋		
evening set	-583 Jul 04 j 13:13	14°♋43'07		
conjunction	-583 Jul 17 j 23:51	17°♋39'19	0°40'11	
minimum elong	-583 Jul 17 j 23:49	17°♋39'18	0°40'10	
max. Earth dist.	-583 Jul 17 j 23:48	17°♋39'17	6.36619 AU	
morning rise	-583 Jul 31 j 07:59	20°♋34'07		
	-583 Sep 15 j 16:42	0°♌		
retrograde	-583 Nov 29 j 14:25	7°♌44'20		
opposition	-582 Jan 28 j 14:07	2°♌48'26	1°19'44	
min. Earth dist.	-582 Jan 28 j 22:39	2°♌45'39	4.40187 AU	
	-582 Feb 20 j 09:11	30°℞♋		
direct	-582 Mar 31 j 12:14	27°♋45'08		
	-582 May 09 j 23:55	0°♌		
	-582 Aug 03 j 09:17	15°♌		
evening set	-582 Aug 05 j 17:59	15°♌30'32		
conjunction	-582 Aug 18 j 20:19	18°♌21'04	1°05'57	
minimum elong	-582 Aug 18 j 20:17	18°♌21'02	1°05'58	
max. Earth dist.	-582 Aug 17 j 19:44	18°♌07'41	6.42169 AU	
morning rise	-582 Aug 31 j 19:33	21°♌10'03		
	-582 Oct 14 j 05:14	0°♍		
retrograde	-582 Dec 30 j 00:09	8°♍02'26		
opposition	-581 Feb 28 j 09:40	3°♍09'23	1°44'35	
min. Earth dist.	-581 Mar 01 j 08:43	3°♍01'58	4.42646 AU	
	-581 Mar 26 j 23:18	30°℞♌		
direct	-581 May 01 j 23:22	28°♌06'54		
	-581 Jun 07 j 05:41	0°♍		
evening set	-581 Sep 05 j 21:17	15°♍48'39		
max. Earth dist.	-581 Sep 16 j 23:52	18°♍14'17	6.41273 AU	

Attention, astronomical year style is used: The year -581 in astronomical counting style is the year 582 BCE in historical counting style.

conjunction	-581 Sep 18 j 16:27	18°♍36'33	1°13'18
minimum elong	-581 Sep 18 j 16:27	18°♍36'33	1°13'17
morning rise	-581 Oct 01 j 08:47	21°♍23'12	
	-581 Nov 12 j 04:42	0°♎	
retrograde	-580 Jan 30 j 02:19	8°♎24'38	
opposition	-580 Mar 30 j 19:59	3°♎32'58	1°41'05
min. Earth dist.	-580 Apr 01 j 04:35	3°♎22'34	4.38534 AU
	-580 Apr 30 j 21:11	30°℞♍	
direct	-580 Jun 01 j 11:26	28°♍32'21	
	-580 Jul 03 j 02:50	0°♎	
evening set	-580 Oct 05 j 17:18	16°♎24'03	
max. Earth dist.	-580 Oct 16 j 08:57	18°♎46'31	6.34195 AU
conjunction	-580 Oct 18 j 08:26	19°♎13'05	1°00'19
minimum elong	-580 Oct 18 j 08:28	19°♎13'06	1°00'19
morning rise	-580 Oct 30 j 22:01	22°♎01'29	
	-580 Dec 07 j 12:25	0°♏	
retrograde	-579 Mar 02 j 15:26	9°♏37'19	
opposition	-579 May 02 j 13:58	4°♏45'13	1°08'41
min. Earth dist.	-579 May 03 j 22:37	4°♏34'48	4.28865 AU
	-579 Jun 21 j 18:36	30°℞♎	
direct	-579 Jul 03 j 14:23	29°♎47'03	
	-579 Jul 15 j 10:27	0°♏	
	-579 Oct 23 j 16:34	15°♏	
evening set	-579 Nov 06 j 02:34	18°♏01'08	
max. Earth dist.	-579 Nov 17 j 02:42	20°♏32'21	6.22733 AU
conjunction	-579 Nov 18 j 17:40	20°♏54'44	0°29'15
minimum elong	-579 Nov 18 j 17:42	20°♏54'45	0°29'15
morning rise	-579 Dec 01 j 08:22	23°♏48'26	
	-579 Dec 29 j 06:21	0°♐	
retrograde	-578 Apr 06 j 04:17	12°♐19'00	
opposition	-578 Jun 06 j 02:54	7°♐24'56	0°13'15
min. Earth dist.	-578 Jun 07 j 01:23	7°♐17'44	4.16288 AU
direct	-578 Aug 05 j 22:56	2°♐29'30	
desc. node	-578 Aug 28 j 17:17	3°♐18'33	
evening set	-578 Dec 08 j 21:04	21°♐13'58	
conjunction	-578 Dec 21 j 15:03	24°♐14'06	-0°12'26
minimum elong	-578 Dec 21 j 15:02	24°♐14'06	0°12'26
behind sun begin	-578 Dec 21 j 09:41	24°♐10'57	
behind sun end	-578 Dec 21 j 20:23	24°♐17'14	
max. Earth dist.	-578 Dec 20 j 18:46	24°♐02'08	6.10166 AU
morning rise	-577 Jan 03 j 10:35	27°♐15'14	
	-577 Jan 15 j 06:09	0°♑	
retrograde	-577 May 12 j 18:00	16°♑48'28	
opposition	-577 Jul 12 j 09:48	11°♑50'59	-0°50'01
min. Earth dist.	-577 Jul 12 j 13:13	11°♑49'52	4.04750 AU
direct	-577 Sep 09 j 20:09	6°♑57'22	
evening set	-576 Jan 12 j 13:21	26°♑11'35	
conjunction	-576 Jan 25 j 13:10	29°♑18'19	-0°51'13
minimum elong	-576 Jan 25 j 13:07	29°♑18'17	0°51'12
max. Earth dist.	-576 Jan 25 j 22:58	29°♑24'12	6.00715 AU
	-576 Jan 28 j 10:36	0°♒	
morning rise	-576 Feb 07 j 15:32	2°♒26'36	
	-576 Apr 05 j 02:48	15°♒	
retrograde	-576 Jun 18 j 12:26	22°♒47'07	
opposition	-576 Aug 17 j 16:38	17°♒45'43	-1°37'13
min. Earth dist.	-576 Aug 17 j 00:33	17°♒51'05	3.98462 AU
	-576 Sep 08 j 17:38	15°℞♒	
direct	-576 Oct 15 j 00:03	12°♒52'09	
	-576 Nov 19 j 21:26	15°♒	
	-575 Feb 06 j 23:12	0°♓	
evening set	-575 Feb 17 j 00:16	2°♓22'47	
conjunction	-575 Mar 02 j 07:26	5°♓34'00	-1°11'31
minimum elong	-575 Mar 02 j 07:25	5°♓33'59	1°11'30
max. Earth dist.	-575 Mar 03 j 19:46	5°♓55'48	5.98070 AU
morning rise	-575 Mar 15 j 17:59	8°♓46'55	
retrograde	-575 Jul 25 j 21:44	29°♓14'57	
min. Earth dist.	-575 Sep 22 j 10:27	24°♓20'50	3.99916 AU
opposition	-575 Sep 23 j 16:56	24°♓10'30	-1°46'57
direct	-575 Nov 20 j 14:50	19°♓14'55	
	-574 Feb 15 j 17:13	0°♈	
evening set	-574 Mar 26 j 06:59	8°♈39'45	
conjunction	-574 Apr 08 j 21:40	11°♈51'54	-1°04'15
minimum elong	-574 Apr 08 j 21:43	11°♈51'55	1°04'15
max. Earth dist.	-574 Apr 11 j 00:21	12°♈21'45	6.03400 AU
morning rise	-574 Apr 22 j 14:50	15°♈05'08	
	-574 Jul 04 j 07:38	0°♉	
retrograde	-574 Aug 30 j 18:07	4°♉55'41	
min. Earth dist.	-574 Oct 27 j 23:31	0°♉01'16	4.08510 AU
	-574 Oct 28 j 03:14	30°℞♈	
opposition	-574 Oct 29 j 06:47	29°♈50'36	-1°15'49
direct	-574 Dec 26 j 17:53	24°♈51'54	
	-573 Feb 22 j 22:25	0°♉	
evening set	-573 May 02 j 02:58	13°♉51'50	
	-573 May 07 j 02:29	15°♉	
conjunction	-573 May 15 j 21:37	17°♉00'46	-0°33'29
minimum elong	-573 May 15 j 21:39	17°♉00'48	0°33'29
max. Earth dist.	-573 May 17 j 19:21	17°♉26'57	6.14508 AU
morning rise	-573 May 29 j 16:48	20°♉09'45	
	-573 Jul 14 j 19:37	0°♊	
retrograde	-573 Oct 03 j 08:51	8°♊57'40	
opposition	-573 Dec 01 j 22:07	3°♊54'46	-0°19'42
min. Earth dist.	-573 Nov 30 j 23:02	4°♊02'35	4.20906 AU
	-572 Jan 04 j 08:25	30°℞♉	
direct	-572 Jan 30 j 11:21	28°♉53'21	
	-572 Feb 25 j 23:40	0°♊	
asc. node	-572 Apr 07 j 21:48	5°♊29'01	
evening set	-572 Jun 05 j 12:33	17°♊21'21	
conjunction	-572 Jun 19 j 05:00	20°♊23'53	0°07'32
minimum elong	-572 Jun 19 j 04:59	20°♊23'52	0°07'33
behind sun begin	-572 Jun 18 j 21:28	20°♊19'42	
behind sun end	-572 Jun 19 j 12:29	20°♊28'02	
max. Earth dist.	-572 Jun 20 j 04:07	20°♊36'45	6.27237 AU
morning rise	-572 Jul 02 j 20:13	23°♊25'32	
	-572 Aug 02 j 15:30	0°♋	
retrograde	-572 Nov 03 j 04:27	11°♋13'11	
opposition	-571 Jan 01 j 21:42	6°♋13'56	0°39'31
min. Earth dist.	-571 Jan 01 j 14:55	6°♋16'12	4.32840 AU
direct	-571 Mar 03 j 19:57	1°♋10'54	
evening set	-571 Jul 09 j 02:53	19°♋11'25	
conjunction	-571 Jul 22 j 12:37	22°♋06'51	0°44'39
minimum elong	-571 Jul 22 j 12:34	22°♋06'50	0°44'40
max. Earth dist.	-571 Jul 22 j 10:24	22°♋05'39	6.37472 AU
morning rise	-571 Aug 04 j 19:29	25°♋00'49	
	-571 Aug 28 j 07:57	0°♌	
retrograde	-571 Dec 03 j 19:14	12°♌07'38	
opposition	-570 Feb 01 j 21:29	7°♌12'06	1°24'43
min. Earth dist.	-570 Feb 02 j 06:57	7°♌09'01	4.40746 AU
direct	-570 Apr 04 j 21:29	2°♌08'50	
	-570 Jul 17 j 23:27	15°♌	
evening set	-570 Aug 10 j 03:53	19°♌53'11	
max. Earth dist.	-570 Aug 22 j 02:04	22°♌28'27	6.42381 AU
conjunction	-570 Aug 23 j 05:02	22°♌43'08	1°08'08
minimum elong	-570 Aug 23 j 05:00	22°♌43'07	1°08'08
morning rise	-570 Sep 05 j 03:10	25°♌31'35	

Attention, astronomical year style is used: The year -570 in astronomical counting style is the year 571 BCE in historical counting style.

	-570 Sep 26 j 05:47	0°♍		
retrograde	-569 Jan 03 j 07:41	12°♍23'32		
opposition	-569 Mar 04 j 18:03	7°♍30'44	1°45'49	
min. Earth dist.	-569 Mar 05 j 19:11	7°♍22'39	4.42493 AU	
direct	-569 May 06 j 10:06	2°♍28'25		
evening set	-569 Sep 10 j 04:52	20°♍10'21		
max. Earth dist.	-569 Sep 21 j 04:25	22°♍34'37	6.40730 AU	
conjunction	-569 Sep 22 j 23:15	22°♍58'08	1°12'40	
minimum elong	-569 Sep 22 j 23:15	22°♍58'08	1°12'40	
morning rise	-569 Oct 05 j 15:01	25°♍44'45		
	-569 Oct 25 j 11:13	0°♎		
retrograde	-568 Feb 03 j 12:16	12°♎48'59		
opposition	-568 Apr 04 j 07:20	7°♎57'14	1°38'11	
min. Earth dist.	-568 Apr 05 j 15:58	7°♎46'50	4.37616 AU	
direct	-568 Jun 05 j 21:32	2°♎56'51		
evening set	-568 Oct 10 j 00:50	20°♎50'23		
max. Earth dist.	-568 Oct 20 j 17:54	23°♎14'03	6.32957 AU	
conjunction	-568 Oct 22 j 15:50	23°♎39'49	0°56'56	
minimum elong	-568 Oct 22 j 15:52	23°♎39'51	0°56'55	
morning rise	-568 Nov 04 j 05:12	26°♎28'41		
	-568 Nov 20 j 05:18	0°♏		
retrograde	-567 Mar 07 j 06:59	14°♏10'28		
opposition	-567 May 07 j 06:20	9°♏18'10	1°02'05	
min. Earth dist.	-567 May 08 j 14:36	9°♏07'54	4.27353 AU	
direct	-567 Jul 08 j 04:00	4°♏20'23		
	-567 Oct 06 j 14:57	15°♏		
evening set	-567 Nov 10 j 13:16	22°♏37'52		
max. Earth dist.	-567 Nov 21 j 13:53	25°♏09'59	6.21062 AU	
conjunction	-567 Nov 23 j 04:25	25°♏32'13	0°23'50	
minimum elong	-567 Nov 23 j 04:27	25°♏32'13	0°23'50	
morning rise	-567 Dec 05 j 19:44	28°♏26'50		
	-567 Dec 12 j 14:59	0°♐		
retrograde	-566 Apr 11 j 02:38	17°♐05'43		
opposition	-566 Jun 11 j 01:00	12°♐11'13	0°04'28	
min. Earth dist.	-566 Jun 11 j 21:05	12°♐04'45	4.14564 AU	
desc. node	-566 Jul 09 j 00:29	8°♐54'19		
direct	-566 Aug 10 j 16:34	7°♐16'01		
evening set	-566 Dec 13 j 13:23	26°♐04'55		
conjunction	-566 Dec 26 j 08:10	29°♐06'03	-0°18'20	
minimum elong	-566 Dec 26 j 08:08	29°♐06'02	0°18'21	
max. Earth dist.	-566 Dec 25 j 16:29	28°♐56'47	6.08554 AU	
	-566 Dec 30 j 03:15	0°♑		
morning rise	-565 Jan 08 j 04:22	2°♑08'13		
retrograde	-565 May 17 j 23:27	21°♑49'39		
opposition	-565 Jul 17 j 12:47	16°♑51'41	-0°58'06	
min. Earth dist.	-565 Jul 17 j 14:16	16°♑51'12	4.03407 AU	
direct	-565 Sep 14 j 18:51	11°♑58'12		
	-564 Jan 12 j 04:21	0°♒		
evening set	-564 Jan 17 j 12:29	1°♒16'13		
conjunction	-564 Jan 30 j 13:07	4°♒23'47	-0°55'27	
minimum elong	-564 Jan 30 j 13:04	4°♒23'45	0°55'27	
max. Earth dist.	-564 Jan 31 j 01:24	4°♒31'10	5.99743 AU	
morning rise	-564 Feb 12 j 16:46	7°♒33'02		
	-564 Mar 16 j 00:48	15°♒		
retrograde	-564 Jun 23 j 17:24	27°♒58'04		
opposition	-564 Aug 22 j 21:11	22°♒56'10	-1°41'07	
min. Earth dist.	-564 Aug 22 j 01:48	23°♒02'39	3.97993 AU	
direct	-564 Oct 20 j 01:06	18°♒02'28		
	-563 Jan 20 j 06:52	0°♓		
evening set	-563 Feb 22 j 04:24	7°♓34'35		
conjunction	-563 Mar 07 j 12:46	10°♓46'17	-1°12'11	
minimum elong	-563 Mar 07 j 12:45	10°♓46'17	1°12'10	
max. Earth dist.	-563 Mar 09 j 04:26	11°♓10'04	5.98140 AU	
morning rise	-563 Mar 21 j 00:18	13°♓59'37		
	-563 Jun 06 j 19:33	0°♈		
retrograde	-563 Jul 31 j 02:02	4°♈26'00		
	-563 Sep 24 j 01:03	30°℞♓		
opposition	-563 Sep 28 j 19:05	29°♓21'19	-1°44'50	
min. Earth dist.	-563 Sep 27 j 12:26	29°♓31'45	4.00521 AU	
direct	-563 Nov 25 j 18:22	24°♓25'23		
	-562 Jan 24 j 18:46	0°♈		
evening set	-562 Mar 31 j 12:23	13°♈48'36		
conjunction	-562 Apr 14 j 03:59	17°♈00'40	-1°01'05	
minimum elong	-562 Apr 14 j 04:02	17°♈00'42	1°01'04	
max. Earth dist.	-562 Apr 16 j 08:27	17°♈31'28	6.04500 AU	
morning rise	-562 Apr 27 j 21:48	20°♈13'42		
	-562 Jun 11 j 08:31	0°♉		
retrograde	-562 Sep 04 j 14:45	9°♉57'03		
min. Earth dist.	-562 Nov 01 j 19:38	5°♉02'59	4.10009 AU	
opposition	-562 Nov 03 j 03:17	4°♉52'12	-1°08'54	
	-562 Dec 23 j 12:38	30°℞♈		
direct	-562 Dec 31 j 16:07	29°♈53'12		
	-561 Jan 08 j 21:09	0°♉		
	-561 Apr 20 j 03:32	15°♉		
evening set	-561 May 07 j 05:14	18°♉49'07		
conjunction	-561 May 20 j 23:48	21°♉57'17	-0°27'59	
minimum elong	-561 May 20 j 23:50	21°♉57'18	0°27'58	
max. Earth dist.	-561 May 22 j 18:39	22°♉21'43	6.16305 AU	
morning rise	-561 Jun 03 j 18:54	25°♉05'24		
	-561 Jun 25 j 23:34	0°♊		
retrograde	-561 Oct 07 j 22:46	13°♊44'06		
opposition	-561 Dec 06 j 12:35	8°♊41'37	-0°11'06	
min. Earth dist.	-561 Dec 05 j 15:30	8°♊48'45	4.22838 AU	
direct	-560 Feb 04 j 07:09	3°♊39'57		
asc. node	-560 Feb 16 j 18:53	3°♊55'07		
evening set	-560 Jun 10 j 08:16	22°♊02'51		
conjunction	-560 Jun 24 j 00:05	25°♊04'16	0°13'13	
minimum elong	-560 Jun 24 j 00:04	25°♊04'16	0°13'13	
behind sun begin	-560 Jun 23 j 19:23	25°♊01'41		
behind sun end	-560 Jun 24 j 04:44	25°♊06'50		
max. Earth dist.	-560 Jun 24 j 21:56	25°♊16'23	6.29180 AU	
morning rise	-560 Jul 07 j 14:05	28°♊04'38		
	-560 Jul 16 j 09:16	0°♋		
retrograde	-560 Nov 07 j 10:59	15°♋44'03		
opposition	-559 Jan 06 j 06:41	10°♋45'22	0°46'53	
min. Earth dist.	-559 Jan 06 j 01:04	10°♋47'14	4.34648 AU	
direct	-559 Mar 08 j 08:58	5°♋42'18		
evening set	-559 Jul 13 j 15:49	23°♋38'13		
conjunction	-559 Jul 27 j 00:06	26°♋32'29	0°48'50	
minimum elong	-559 Jul 27 j 00:03	26°♋32'27	0°48'50	
max. Earth dist.	-559 Jul 26 j 17:16	26°♋28'45	6.38997 AU	
morning rise	-559 Aug 09 j 05:45	29°♋25'18		
	-559 Aug 11 j 21:59	0°♌		
	-559 Nov 07 j 12:02	15°♌		
retrograde	-559 Dec 08 j 00:05	16°♌26'48		
	-558 Jan 07 j 10:21	15°℞♌		
opposition	-558 Feb 06 j 03:19	11°♌31'44	1°29'04	
min. Earth dist.	-558 Feb 06 j 15:59	11°♌27'36	4.41893 AU	
direct	-558 Apr 09 j 08:13	6°♌28'29		
	-558 Jun 30 j 03:22	15°♌		
evening set	-558 Aug 14 j 10:45	24°♌09'54		
max. Earth dist.	-558 Aug 26 j 05:32	26°♌43'11	6.43040 AU	
conjunction	-558 Aug 27 j 10:52	26°♌59'08	1°09'52	

Attention, astronomical year style is used: The year -558 in astronomical counting style is the year 559 BCE in historical counting style.

minimum elong	-558 Aug 27 j 10:51	26°♌59'07	1°09'51	
morning rise	-558 Sep 09 j 07:47	29°♌46'52		
	-558 Sep 10 j 08:06	0°♍		
retrograde	-557 Jan 07 j 10:07	16°♍37'24		
opposition	-557 Mar 08 j 23:22	11°♍44'48	1°46'22	
min. Earth dist.	-557 Mar 10 j 01:30	11°♍36'25	4.42631 AU	
direct	-557 May 10 j 15:59	6°♍42'39		
evening set	-557 Sep 14 j 08:35	24°♍24'03		
max. Earth dist.	-557 Sep 25 j 05:49	26°♍47'16	6.40317 AU	
conjunction	-557 Sep 27 j 02:10	27°♍11'41	1°11'38	
minimum elong	-557 Sep 27 j 02:11	27°♍11'41	1°11'38	
morning rise	-557 Oct 09 j 17:18	29°♍58'13		
	-557 Oct 09 j 20:34	0°♎		
retrograde	-556 Feb 07 j 19:37	17°♎05'17		
opposition	-556 Apr 08 j 15:24	12°♎13'35	1°34'49	
min. Earth dist.	-556 Apr 10 j 02:03	12°♎02'34	4.36650 AU	
direct	-556 Jun 10 j 05:42	7°♎13'27		
evening set	-556 Oct 14 j 05:02	25°♎09'15		
max. Earth dist.	-556 Oct 24 j 20:05	27°♎32'19	6.31500 AU	
conjunction	-556 Oct 26 j 19:48	27°♎59'11	0°53'20	
minimum elong	-556 Oct 26 j 19:50	27°♎59'12	0°53'20	
	-556 Nov 04 j 18:31	0°♏		
morning rise	-556 Nov 08 j 09:18	0°♏48'40		
	-555 Jan 21 j 03:08	15°♏		
retrograde	-555 Mar 11 j 19:52	18°♏37'30		
	-555 May 01 j 21:35	15°℞♏		
opposition	-555 May 11 j 19:42	13°♏44'58	0°55'19	
min. Earth dist.	-555 May 13 j 03:06	13°♏34'56	4.25479 AU	
direct	-555 Jul 12 j 13:21	8°♏47'25		
	-555 Sep 17 j 03:07	15°♏		
evening set	-555 Nov 14 j 21:46	27°♏09'56		
max. Earth dist.	-555 Nov 26 j 01:31	29°♏44'32	6.18936 AU	
conjunction	-555 Nov 27 j 13:25	0°♐05'20	0°18'26	
minimum elong	-555 Nov 27 j 13:27	0°♐05'21	0°18'26	
	-555 Nov 27 j 04:12	0°♐		
morning rise	-555 Dec 10 j 05:10	3°♐01'05		
retrograde	-554 Apr 16 j 02:12	21°♐50'07		
desc. node	-554 May 20 j 17:04	20°♐01'41		
opposition	-554 Jun 15 j 21:53	16°♐55'16	-0°04'12	
min. Earth dist.	-554 Jun 16 j 17:07	16°♐49'04	4.12332 AU	
direct	-554 Aug 15 j 08:49	12°♐00'21		
	-554 Dec 14 j 06:45	0°♑		
evening set	-554 Dec 18 j 05:30	0°♑55'44		
max. Earth dist.	-554 Dec 30 j 11:13	3°♑49'57	6.06415 AU	
conjunction	-554 Dec 31 j 00:57	3°♑58'07	-0°24'02	
minimum elong	-554 Dec 31 j 00:55	3°♑58'06	0°24'01	
morning rise	-553 Jan 12 j 22:21	7°♑01'41		
retrograde	-553 May 23 j 03:50	26°♑53'23		
opposition	-553 Jul 22 j 16:13	21°♑54'51	-1°05'43	
min. Earth dist.	-553 Jul 22 j 13:53	21°♑55'37	4.01580 AU	
direct	-553 Sep 19 j 16:05	17°♑01'27		
	-553 Dec 25 j 23:19	0°♒		
evening set	-552 Jan 22 j 13:21	6°♒25'11		
conjunction	-552 Feb 04 j 15:12	9°♒33'52	-0°59'13	
minimum elong	-552 Feb 04 j 15:09	9°♒33'51	0°59'13	
max. Earth dist.	-552 Feb 05 j 08:47	9°♒44'28	5.98405 AU	
morning rise	-552 Feb 17 j 19:57	12°♒44'13		
	-552 Feb 27 j 08:47	15°♒		
	-552 May 13 j 24:00	0°♓		
retrograde	-552 Jun 29 j 02:57	3°♓14'49		
	-552 Aug 14 j 11:30	30°℞♒		
min. Earth dist.	-552 Aug 27 j 06:19	28°♒19'30	3.97302 AU	
opposition	-552 Aug 28 j 03:33	28°♒12'22	-1°44'11	
direct	-552 Oct 25 j 05:58	23°♒18'25		
	-552 Dec 30 j 06:57	0°♓		
evening set	-551 Feb 27 j 11:25	12°♓52'37		
conjunction	-551 Mar 12 j 21:02	16°♓04'53	-1°12'13	
minimum elong	-551 Mar 12 j 21:02	16°♓04'53	1°12'13	
max. Earth dist.	-551 Mar 14 j 16:59	16°♓31'11	5.98155 AU	
morning rise	-551 Mar 26 j 09:46	19°♓18'43		
	-551 May 13 j 09:04	0°♈		
retrograde	-551 Aug 05 j 07:09	9°♈42'35		
opposition	-551 Oct 03 j 22:55	4°♈37'38	-1°41'45	
min. Earth dist.	-551 Oct 02 j 14:16	4°♈48'45	4.01247 AU	
	-551 Nov 17 j 11:37	30°℞♓		
direct	-551 Nov 30 j 21:35	29°♓41'17		
	-551 Dec 14 j 09:39	0°♈		
evening set	-550 Apr 05 j 19:59	19°♈02'00		
conjunction	-550 Apr 19 j 12:15	22°♈13'47	-0°57'21	
minimum elong	-550 Apr 19 j 12:18	22°♈13'49	0°57'20	
max. Earth dist.	-550 Apr 21 j 16:10	22°♈44'09	6.05835 AU	
morning rise	-550 May 03 j 06:44	25°♈26'25		
	-550 May 23 j 07:26	0°♉		
	-550 Sep 06 j 02:03	15°♉		
retrograde	-550 Sep 09 j 11:37	15°♉01'10		
	-550 Sep 12 j 21:12	15°℞♉		
min. Earth dist.	-550 Nov 06 j 17:52	10°♉06'56	4.11755 AU	
opposition	-550 Nov 08 j 00:52	9°♉56'21	-1°01'22	
direct	-549 Jan 05 j 17:56	4°♉56'50		
	-549 Apr 01 j 11:53	15°♉		
evening set	-549 May 12 j 08:07	23°♉47'34		
conjunction	-549 May 26 j 02:46	26°♉54'50	-0°22'13	
minimum elong	-549 May 26 j 02:48	26°♉54'51	0°22'11	
max. Earth dist.	-549 May 27 j 20:57	27°♉18'46	6.18303 AU	
morning rise	-549 Jun 08 j 21:17	0°♊01'49		
	-549 Jun 08 j 18:03	0°♊		
retrograde	-549 Oct 12 j 12:44	18°♊30'31		
min. Earth dist.	-549 Dec 10 j 07:40	13°♊35'04	4.24857 AU	
opposition	-549 Dec 11 j 03:09	13°♊28'31	-0°02'22	
asc. node	-549 Dec 26 j 13:24	11°♊27'27		
direct	-548 Feb 09 j 02:36	8°♊26'33		
evening set	-548 Jun 15 j 04:29	26°♊44'14		
conjunction	-548 Jun 28 j 19:14	29°♊44'27	0°18'53	
minimum elong	-548 Jun 28 j 19:12	29°♊44'27	0°18'53	
max. Earth dist.	-548 Jun 29 j 11:57	29°♊53'41	6.31036 AU	
	-548 Jun 29 j 23:22	0°♋		
morning rise	-548 Jul 12 j 08:19	2°♋43'36		
retrograde	-548 Nov 11 j 19:41	20°♋15'27		
opposition	-547 Jan 10 j 16:24	15°♋17'17	0°54'06	
min. Earth dist.	-547 Jan 10 j 13:48	15°♋18'08	4.36203 AU	
direct	-547 Mar 12 j 23:41	10°♋14'02		
evening set	-547 Jul 18 j 05:15	28°♋06'26		
	-547 Jul 26 j 22:42	0°♌		
conjunction	-547 Jul 31 j 12:31	0°♌59'46	0°52'50	
minimum elong	-547 Jul 31 j 12:28	0°♌59'45	0°52'51	
max. Earth dist.	-547 Jul 31 j 03:14	0°♌54'43	6.40128 AU	
morning rise	-547 Aug 13 j 16:42	3°♌51'34		
	-547 Oct 09 j 07:05	15°♌		
retrograde	-547 Dec 12 j 05:36	20°♌49'25		
opposition	-546 Feb 10 j 11:06	15°♌54'48	1°33'08	
min. Earth dist.	-546 Feb 11 j 01:24	15°♌50'10	4.42546 AU	
	-546 Feb 17 j 12:46	15°℞♌		
direct	-546 Apr 13 j 17:59	10°♌51'41		
	-546 Jun 07 j 14:36	15°♌		

Attention, astronomical year style is used: The year -546 in astronomical counting style is the year 547 BCE in historical counting style.

evening set	-546 Aug 18 j 19:58	28°♌31'51	
	-546 Aug 25 j 14:43	0°♍	
max. Earth dist.	-546 Aug 30 j 09:23	1°♍02'22	6.43149 AU
conjunction	-546 Aug 31 j 18:50	1°♍20'35	1°11'19
minimum elong	-546 Aug 31 j 18:49	1°♍20'34	1°11'19
morning rise	-546 Sep 13 j 14:51	4°♍07'53	
retrograde	-545 Jan 11 j 19:11	20°♍58'59	
opposition	-545 Mar 13 j 08:36	16°♍06'40	1°46'29
min. Earth dist.	-545 Mar 14 j 13:30	15°♍57'24	4.42203 AU
direct	-545 May 15 j 02:54	11°♍04'43	
evening set	-545 Sep 18 j 16:13	28°♍47'24	
	-545 Sep 24 j 04:36	0°♎	
max. Earth dist.	-545 Sep 29 j 11:35	1°♎09'56	6.39375 AU
conjunction	-545 Oct 01 j 09:19	1°♎35'10	1°10'13
minimum elong	-545 Oct 01 j 09:21	1°♎35'10	1°10'13
morning rise	-545 Oct 13 j 23:56	4°♎21'53	
retrograde	-544 Feb 12 j 07:21	21°♎33'37	
opposition	-544 Apr 13 j 04:46	16°♎41'55	1°30'49
min. Earth dist.	-544 Apr 14 j 14:57	16°♎31'02	4.35259 AU
direct	-544 Jun 14 j 15:58	11°♎42'08	
evening set	-544 Oct 18 j 14:30	29°♎41'31	
	-544 Oct 19 j 23:29	0°♏	
max. Earth dist.	-544 Oct 29 j 06:43	2°♏05'49	6.29774 AU
conjunction	-544 Oct 31 j 05:12	2°♏32'06	0°49'15
minimum elong	-544 Oct 31 j 05:15	2°♏32'07	0°49'15
morning rise	-544 Nov 12 j 18:48	5°♏22'22	
	-544 Dec 28 j 11:06	15°♏	
retrograde	-543 Mar 16 j 17:21	23°♏19'21	
opposition	-543 May 16 j 15:51	18°♏26'40	0°47'47
min. Earth dist.	-543 May 17 j 23:07	18°♏16'41	4.23514 AU
	-543 Jun 15 j 13:34	15°℞♏	
direct	-543 Jul 17 j 06:16	13°♏29'33	
	-543 Aug 17 j 16:50	15°♏	
	-543 Nov 10 j 23:41	0°♐	
evening set	-543 Nov 19 j 12:11	1°♐57'09	
max. Earth dist.	-543 Nov 30 j 17:48	4°♐33'34	6.16914 AU
conjunction	-543 Dec 02 j 04:12	4°♐53'35	0°12'35
minimum elong	-543 Dec 02 j 04:13	4°♐53'35	0°12'34
behind sun begin	-543 Dec 01 j 22:58	4°♐50'33	
behind sun end	-543 Dec 02 j 09:28	4°♐56'38	
morning rise	-543 Dec 14 j 20:42	7°♐50'30	
desc. node	-542 Mar 29 j 19:08	26°♐02'25	
retrograde	-542 Apr 21 j 05:12	26°♐49'25	
opposition	-542 Jun 21 j 00:50	21°♐54'08	-0°13'23
min. Earth dist.	-542 Jun 21 j 16:20	21°♐49'07	4.10439 AU
direct	-542 Aug 20 j 05:20	16°♐59'36	
	-542 Nov 27 j 01:24	0°♑	
evening set	-542 Dec 23 j 03:09	6°♑00'11	
conjunction	-541 Jan 04 j 23:26	9°♑03'35	-0°29'51
minimum elong	-541 Jan 04 j 23:24	9°♑03'34	0°29'51
max. Earth dist.	-541 Jan 04 j 15:00	8°♑58'34	6.04845 AU
morning rise	-541 Jan 17 j 21:40	12°♑08'16	
	-541 Apr 21 j 08:26	0°♒	
retrograde	-541 May 28 j 13:49	2°♒07'50	
	-541 Jul 04 j 20:54	30°℞♑	
opposition	-541 Jul 27 j 23:51	27°♑08'46	-1°13'10
min. Earth dist.	-541 Jul 27 j 19:03	27°♑10'21	4.00520 AU
direct	-541 Sep 24 j 20:49	22°♑15'29	
	-541 Dec 05 j 21:44	0°♒	
evening set	-540 Jan 27 j 17:28	11°♒41'54	
conjunction	-540 Feb 09 j 20:20	14°♒51'15	-1°02'41
minimum elong	-540 Feb 09 j 20:18	14°♒51'14	1°02'40
	-540 Feb 10 j 10:52	15°♒	
max. Earth dist.	-540 Feb 10 j 18:53	15°♒04'49	5.97954 AU
morning rise	-540 Feb 23 j 02:16	18°♒02'18	
	-540 Apr 17 j 03:44	0°♓	
retrograde	-540 Jul 04 j 11:20	8°♓34'21	
min. Earth dist.	-540 Sep 01 j 10:21	3°♓39'37	3.97561 AU
opposition	-540 Sep 02 j 10:38	3°♓31'27	-1°46'27
	-540 Oct 01 j 19:15	30°℞♒	
direct	-540 Oct 30 j 10:34	28°♒37'18	
	-540 Nov 28 j 00:51	0°♓	
evening set	-539 Mar 04 j 18:17	18°♓10'03	
conjunction	-539 Mar 18 j 04:47	21°♓22'18	-1°11'44
minimum elong	-539 Mar 18 j 04:48	21°♓22'19	1°11'44
max. Earth dist.	-539 Mar 20 j 02:18	21°♓49'29	5.99060 AU
morning rise	-539 Mar 31 j 18:32	24°♓36'07	
	-539 Apr 24 j 02:11	0°♈	
retrograde	-539 Aug 10 j 07:43	14°♈54'06	
min. Earth dist.	-539 Oct 07 j 15:02	10°♈00'16	4.02689 AU
opposition	-539 Oct 09 j 00:18	9°♈48'55	-1°37'57
direct	-539 Dec 06 j 01:08	4°♈52'06	
evening set	-538 Apr 11 j 00:26	24°♈08'05	
conjunction	-538 Apr 24 j 17:27	27°♈19'19	-0°53'18
minimum elong	-538 Apr 24 j 17:30	27°♈19'20	0°53'19
max. Earth dist.	-538 Apr 26 j 22:11	27°♈50'01	6.07687 AU
	-538 May 06 j 06:05	0°♉	
morning rise	-538 May 08 j 12:04	0°♉31'11	
	-538 Jul 18 j 17:26	15°♉	
retrograde	-538 Sep 14 j 05:48	19°♉55'53	
	-538 Nov 11 j 17:05	15°℞♉	
opposition	-538 Nov 12 j 18:26	14°♉51'23	-0°53'41
min. Earth dist.	-538 Nov 11 j 12:57	15°♉01'25	4.13798 AU
direct	-537 Jan 10 j 15:51	9°♉51'28	
	-537 Mar 10 j 10:58	15°♉	
evening set	-537 May 17 j 06:53	28°♉36'28	
	-537 May 23 j 11:15	0°♊	
conjunction	-537 May 31 j 01:11	1°♊42'44	-0°16'30
minimum elong	-537 May 31 j 01:12	1°♊42'44	0°16'30
max. Earth dist.	-537 Jun 01 j 15:11	2°♊04'11	6.20354 AU
morning rise	-537 Jun 13 j 19:22	4°♊48'37	
retrograde	-537 Oct 16 j 22:17	23°♊07'54	
asc. node	-537 Nov 05 j 18:43	22°♊29'00	
opposition	-537 Dec 15 j 13:59	18°♊06'22	0°06'04
min. Earth dist.	-537 Dec 14 j 20:42	18°♊12'11	4.26736 AU
direct	-536 Feb 13 j 17:54	13°♊04'05	
	-536 Jun 13 j 22:30	0°♋	
evening set	-536 Jun 19 j 20:26	1°♋17'20	
conjunction	-536 Jul 03 j 10:25	4°♋16'32	0°24'15
minimum elong	-536 Jul 03 j 10:23	4°♋16'31	0°24'16
max. Earth dist.	-536 Jul 03 j 23:43	4°♋23'52	6.32607 AU
morning rise	-536 Jul 16 j 22:15	7°♋14'32	
retrograde	-536 Nov 16 j 02:08	24°♋40'17	
opposition	-535 Jan 14 j 23:25	19°♋42'41	1°00'47
min. Earth dist.	-535 Jan 14 j 23:32	19°♋42'39	4.37364 AU
direct	-535 Mar 17 j 10:25	14°♋39'24	
	-535 Jul 11 j 00:21	0°♌	
evening set	-535 Jul 22 j 16:13	2°♌29'36	
conjunction	-535 Aug 04 j 22:12	5°♌22'11	0°56'27
minimum elong	-535 Aug 04 j 22:09	5°♌22'09	0°56'26
max. Earth dist.	-535 Aug 04 j 07:32	5°♌14'12	6.40775 AU
morning rise	-535 Aug 18 j 01:20	8°♌13'16	
	-535 Sep 19 j 15:22	15°♌	

Attention, astronomical year style is used: The year -535 in astronomical counting style is the year 536 BCE in historical counting style.

retrograde	-535 Dec 16 j 11:57	25°♌09'11		
opposition	-534 Feb 14 j 17:41	20°♌14'57	1°36'38	
min. Earth dist.	-534 Feb 15 j 10:59	20°♌09'20	4.42677 AU	
direct	-534 Apr 18 j 02:52	15°♌11'52		
	-534 Aug 09 j 17:07	0°♍		
evening set	-534 Aug 23 j 03:57	2°♍52'23		
max. Earth dist.	-534 Sep 03 j 15:23	5°♍21'59	6.42751 AU	
conjunction	-534 Sep 05 j 02:04	5°♍40'54	1°12'22	
minimum elong	-534 Sep 05 j 02:03	5°♍40'53	1°12'22	
morning rise	-534 Sep 17 j 21:02	8°♍27'59		
retrograde	-533 Jan 16 j 02:58	25°♍21'14		
opposition	-533 Mar 17 j 18:00	20°♍29'07	1°46'01	
min. Earth dist.	-533 Mar 18 j 23:30	20°♍19'40	4.41324 AU	
direct	-533 May 19 j 11:04	15°♍27'27		
	-533 Sep 08 j 04:08	0°♎		
evening set	-533 Sep 23 j 00:15	3°♎12'34		
max. Earth dist.	-533 Oct 03 j 17:40	5°♎34'34	6.38080 AU	
conjunction	-533 Oct 05 j 16:42	6°♎00'36	1°08'23	
minimum elong	-533 Oct 05 j 16:43	6°♎00'37	1°08'22	
morning rise	-533 Oct 18 j 07:05	8°♎47'44		
retrograde	-532 Feb 16 j 23:17	26°♎05'15		
opposition	-532 Apr 17 j 19:52	21°♎13'31	1°26'14	
min. Earth dist.	-532 Apr 19 j 06:53	21°♎02'22	4.33622 AU	
direct	-532 Jun 19 j 05:33	16°♎14'05		
	-532 Oct 03 j 14:18	0°♏		
evening set	-532 Oct 23 j 01:15	4°♏17'26		
max. Earth dist.	-532 Nov 02 j 18:49	6°♏43'07	6.27946 AU	
conjunction	-532 Nov 04 j 16:04	7°♏08'48	0°44'48	
minimum elong	-532 Nov 04 j 16:06	7°♏08'49	0°44'48	
morning rise	-532 Nov 17 j 05:51	9°♏59'54		
	-532 Dec 09 j 21:18	15°♏		
retrograde	-531 Mar 21 j 14:16	28°♏05'07		
opposition	-531 May 21 j 13:27	23°♏12'08	0°39'49	
min. Earth dist.	-531 May 22 j 17:53	23°♏03'03	4.21626 AU	
direct	-531 Jul 21 j 22:27	18°♏15'27		
	-531 Oct 24 j 18:11	0°♐		
evening set	-531 Nov 24 j 04:10	6°♐47'36		
conjunction	-531 Dec 06 j 20:35	9°♐44'56	0°06'36	
minimum elong	-531 Dec 06 j 20:36	9°♐44'56	0°06'35	
behind sun begin	-531 Dec 06 j 13:05	9°♐40'34		
behind sun end	-531 Dec 07 j 04:06	9°♐49'18		
max. Earth dist.	-531 Dec 05 j 14:03	9°♐27'05	6.15140 AU	
morning rise	-531 Dec 19 j 13:42	12°♐42'53		
desc. node	-530 Feb 05 j 19:22	23°♐10'38		
	-530 Mar 22 j 16:55	0°♑		
retrograde	-530 Apr 26 j 10:42	1°♑50'28		
	-530 May 31 j 07:33	30°℞♐		
opposition	-530 Jun 26 j 04:41	26°♐54'40	-0°22'32	
min. Earth dist.	-530 Jun 26 j 18:01	26°♐50'21	4.08910 AU	
direct	-530 Aug 25 j 05:34	22°♐00'24		
	-530 Nov 07 j 15:43	0°♑		
evening set	-530 Dec 28 j 01:06	11°♑04'32		
conjunction	-529 Jan 09 j 22:11	14°♑08'47	-0°35'28	
minimum elong	-529 Jan 09 j 22:08	14°♑08'46	0°35'28	
max. Earth dist.	-529 Jan 09 j 18:11	14°♑06'24	6.03696 AU	
morning rise	-529 Jan 22 j 21:24	17°♑14'22		
	-529 Mar 22 j 19:52	0°♒		
retrograde	-529 Jun 02 j 21:11	7°♒19'41		
opposition	-529 Aug 02 j 06:20	2°♒20'04	-1°19'59	
min. Earth dist.	-529 Aug 01 j 21:58	2°♒22'50	3.99888 AU	
	-529 Aug 20 j 16:33	30°℞♑		
direct	-529 Sep 29 j 23:02	27°♑26'48		
	-529 Nov 08 j 13:54	0°♒		
	-528 Jan 24 j 20:21	15°♒		
evening set	-528 Feb 01 j 20:43	16°♒54'26		
conjunction	-528 Feb 15 j 00:27	20°♒04'13	-1°05'36	
minimum elong	-528 Feb 15 j 00:25	20°♒04'12	1°05'36	
max. Earth dist.	-528 Feb 16 j 01:59	20°♒19'36	5.97863 AU	
morning rise	-528 Feb 28 j 07:28	23°♒15'46		
	-528 Mar 28 j 08:57	0°♓		
retrograde	-528 Jul 09 j 16:06	13°♓47'44		
opposition	-528 Sep 07 j 15:00	8°♓44'22	-1°47'50	
min. Earth dist.	-528 Sep 06 j 12:52	8°♓53'11	3.98032 AU	
direct	-528 Nov 04 j 14:13	3°♓49'54		
evening set	-527 Mar 09 j 23:12	23°♓20'51		
conjunction	-527 Mar 23 j 10:53	26°♓33'09	-1°10'42	
minimum elong	-527 Mar 23 j 10:54	26°♓33'10	1°10'41	
max. Earth dist.	-527 Mar 25 j 11:34	27°♓02'08	6.00051 AU	
morning rise	-527 Apr 06 j 01:22	29°♓46'51		
	-527 Apr 06 j 23:41	0°♈		
retrograde	-527 Aug 15 j 08:13	19°♈58'38		
opposition	-527 Oct 13 j 23:03	14°♈53'26	-1°33'31	
min. Earth dist.	-527 Oct 12 j 14:18	15°♈04'36	4.04086 AU	
direct	-527 Dec 11 j 02:02	9°♈56'13		
evening set	-526 Apr 16 j 03:08	29°♈08'06		
	-526 Apr 19 j 21:01	0°♉		
conjunction	-526 Apr 29 j 20:32	2°♉18'48	-0°48'58	
minimum elong	-526 Apr 29 j 20:35	2°♉18'49	0°48'57	
max. Earth dist.	-526 May 01 j 23:13	2°♉48'09	6.09356 AU	
morning rise	-526 May 13 j 15:37	5°♉30'04		
	-526 Jun 26 j 09:04	15°♉		
retrograde	-526 Sep 18 j 20:46	24°♉45'46		
min. Earth dist.	-526 Nov 16 j 05:37	19°♉51'20	4.15566 AU	
opposition	-526 Nov 17 j 10:15	19°♉41'35	-0°45'46	
	-525 Jan 01 j 20:01	15°℞♉		
direct	-525 Jan 15 j 10:57	14°♉41'17		
	-525 Jan 29 j 04:54	15°♉		
	-525 May 06 j 23:15	0°♊		
evening set	-525 May 22 j 04:32	3°♊21'55		
conjunction	-525 Jun 04 j 22:37	6°♊27'19	-0°10'45	
minimum elong	-525 Jun 04 j 22:38	6°♊27'19	0°10'45	
behind sun begin	-525 Jun 04 j 16:20	6°♊23'47		
behind sun end	-525 Jun 05 j 04:56	6°♊30'51		
max. Earth dist.	-525 Jun 06 j 09:19	6°♊46'51	6.22096 AU	
morning rise	-525 Jun 18 j 16:08	9°♊32'11		
asc. node	-525 Sep 15 j 22:08	25°♊45'09		
retrograde	-525 Oct 21 j 09:31	27°♊43'27		
min. Earth dist.	-525 Dec 19 j 10:13	22°♊47'16	4.28293 AU	
opposition	-525 Dec 20 j 00:27	22°♊42'30	0°14'23	
direct	-524 Feb 18 j 09:14	17°♊40'02		
	-524 May 28 j 01:24	0°♋		
evening set	-524 Jun 24 j 12:39	5°♋50'04		
conjunction	-524 Jul 08 j 01:40	8°♋48'22	0°29'29	
minimum elong	-524 Jul 08 j 01:38	8°♋48'21	0°29'30	
max. Earth dist.	-524 Jul 08 j 10:31	8°♋53'14	6.33854 AU	
morning rise	-524 Jul 21 j 12:29	11°♋45'25		
retrograde	-524 Nov 20 j 08:37	29°♋06'14		
opposition	-523 Jan 19 j 07:02	24°♋09'10	1°07'11	
min. Earth dist.	-523 Jan 19 j 09:24	24°♋08'23	4.38241 AU	
direct	-523 Mar 21 j 20:32	19°♋05'50		
	-523 Jun 23 j 20:44	0°♌		
evening set	-523 Jul 27 j 03:48	6°♌54'46		
conjunction	-523 Aug 09 j 08:45	9°♌46'44	0°59'47	

Attention, astronomical year style is used: The year -523 in astronomical counting style is the year 524 BCE in historical counting style.

minimum elong	-523 Aug 09 j 08:42	9°♌46'42	0°59'47	
max. Earth dist.	-523 Aug 08 j 15:40	9°♌37'26	6.41216 AU	
morning rise	-523 Aug 22 j 10:36	12°♌37'09		
	-523 Sep 02 j 13:22	15°♌		
retrograde	-523 Dec 20 j 19:24	29°♌31'53		
opposition	-522 Feb 19 j 01:46	24°♌38'07	1°39'40	
min. Earth dist.	-522 Feb 19 j 20:59	24°♌31'53	4.42680 AU	
direct	-522 Apr 22 j 12:31	19°♌35'15		
	-522 Jul 23 j 10:36	0°♍		
evening set	-522 Aug 27 j 13:07	7°♍16'20		
max. Earth dist.	-522 Sep 07 j 20:10	9°♍43'53	6.42302 AU	
conjunction	-522 Sep 09 j 10:10	10°♍04'38	1°13'01	
minimum elong	-522 Sep 09 j 10:10	10°♍04'38	1°13'01	
morning rise	-522 Sep 22 j 04:27	12°♍51'36		
retrograde	-521 Jan 20 j 14:08	29°♍47'17		
opposition	-521 Mar 22 j 05:10	24°♍55'21	1°44'59	
min. Earth dist.	-521 Mar 23 j 11:59	24°♍45'29	4.40486 AU	
direct	-521 May 23 j 21:59	19°♍53'59		
	-521 Aug 21 j 17:01	0°♎		
evening set	-521 Sep 27 j 09:13	7°♎41'15		
max. Earth dist.	-521 Oct 08 j 03:24	10°♎04'03	6.36936 AU	
conjunction	-521 Oct 10 j 01:22	10°♎29'35	1°06'10	
minimum elong	-521 Oct 10 j 01:24	10°♎29'36	1°06'10	
morning rise	-521 Oct 22 j 15:17	13°♎17'02		
	-520 Jan 31 j 21:25	0°♏		
retrograde	-520 Feb 21 j 13:50	0°♏39'47		
	-520 Mar 13 j 07:50	30°℞♎		
opposition	-520 Apr 22 j 11:48	25°♎48'00	1°21'07	
min. Earth dist.	-520 Apr 23 j 21:25	25°♎37'18	4.32262 AU	
direct	-520 Jun 23 j 17:59	20°♎49'01		
	-520 Sep 15 j 12:52	0°♏		
evening set	-520 Oct 27 j 12:26	8°♏55'19		
max. Earth dist.	-520 Nov 07 j 07:15	11°♏22'15	6.26486 AU	
conjunction	-520 Nov 09 j 03:06	11°♏47'15	0°40'07	
minimum elong	-520 Nov 09 j 03:08	11°♏47'16	0°40'06	
morning rise	-520 Nov 21 j 17:12	14°♏39'04		
	-520 Nov 23 j 06:12	15°♏		
	-519 Feb 10 j 16:42	0°♐		
retrograde	-519 Mar 26 j 12:38	2°♐51'24		
	-519 May 10 j 01:05	30°℞♏		
opposition	-519 May 26 j 11:11	27°♏58'04	0°31'40	
min. Earth dist.	-519 May 27 j 14:14	27°♏49'24	4.20149 AU	
direct	-519 Jul 26 j 17:14	23°♏01'44		
	-519 Oct 05 j 00:21	0°♐		
evening set	-519 Nov 28 j 19:09	11°♐36'54		
max. Earth dist.	-519 Dec 10 j 09:11	14°♐19'16	6.13788 AU	
conjunction	-519 Dec 11 j 12:04	14°♐35'00	0°00'37	
minimum elong	-519 Dec 11 j 12:04	14°♐35'00	0°00'37	
behind sun begin	-519 Dec 11 j 04:04	14°♐30'20		
behind sun end	-519 Dec 11 j 20:04	14°♐39'40		
desc. node	-519 Dec 17 j 00:47	15°♐52'44		
morning rise	-519 Dec 24 j 05:45	17°♐33'47		
	-518 Feb 20 j 23:12	0°♑		
retrograde	-518 May 01 j 12:06	6°♑48'22		
opposition	-518 Jul 01 j 06:34	1°♑52'05	-0°31'19	
min. Earth dist.	-518 Jul 01 j 16:33	1°♑48'51	4.07810 AU	
	-518 Jul 16 j 00:53	30°℞♐		
direct	-518 Aug 30 j 02:50	26°♐58'04		
	-518 Oct 13 j 03:22	0°♑		
evening set	-517 Jan 01 j 21:19	16°♑04'26		
conjunction	-517 Jan 14 j 18:58	19°♑09'17	-0°40'39	
minimum elong	-517 Jan 14 j 18:55	19°♑09'16	0°40'40	
max. Earth dist.	-517 Jan 14 j 18:08	19°♑08'47	6.02928 AU	
morning rise	-517 Jan 27 j 19:08	22°♑15'36		
	-517 Mar 02 j 15:14	0°♒		
retrograde	-517 Jun 08 j 00:58	12°♒25'09		
opposition	-517 Aug 07 j 09:23	7°♒24'55	-1°25'57	
min. Earth dist.	-517 Aug 06 j 22:29	7°♒28'32	3.99539 AU	
direct	-517 Oct 04 j 23:41	2°♒31'32		
	-516 Jan 07 j 16:34	15°♒		
evening set	-516 Feb 06 j 20:48	21°♒59'36		
conjunction	-516 Feb 20 j 01:41	25°♒09'48	-1°07'56	
minimum elong	-516 Feb 20 j 01:39	25°♒09'47	1°07'56	
max. Earth dist.	-516 Feb 21 j 07:45	25°♒27'53	5.97958 AU	
morning rise	-516 Mar 04 j 09:35	28°♒21'42		
	-516 Mar 11 j 07:14	0°♓		
retrograde	-516 Jul 14 j 18:32	18°♓52'43		
opposition	-516 Sep 12 j 15:36	13°♓48'59	-1°48'20	
min. Earth dist.	-516 Sep 11 j 12:56	13°♓58'00	3.98579 AU	
direct	-516 Nov 09 j 14:33	8°♓54'13		
evening set	-515 Mar 15 j 00:46	28°♓23'18		
	-515 Mar 21 j 20:11	0°♈		
conjunction	-515 Mar 28 j 13:15	1°♈35'34	-1°09'11	
minimum elong	-515 Mar 28 j 13:16	1°♈35'35	1°09'10	
max. Earth dist.	-515 Mar 30 j 13:47	2°♈04'21	6.00974 AU	
morning rise	-515 Apr 11 j 04:45	4°♈49'13		
retrograde	-515 Aug 20 j 03:07	24°♈55'09		
min. Earth dist.	-515 Oct 17 j 09:03	20°♈01'15	4.05294 AU	
opposition	-515 Oct 18 j 18:10	19°♈49'57	-1°28'35	
direct	-515 Dec 15 j 22:36	14°♈52'17		
	-514 Apr 03 j 09:37	0°♉		
evening set	-514 Apr 21 j 02:55	4°♉01'00		
conjunction	-514 May 04 j 20:50	7°♉11'17	-0°44'25	
minimum elong	-514 May 04 j 20:53	7°♉11'19	0°44'24	
max. Earth dist.	-514 May 06 j 21:42	7°♉39'30	6.10764 AU	
morning rise	-514 May 18 j 16:02	10°♉21'58		
	-514 Jun 08 j 07:08	15°♉		
retrograde	-514 Sep 23 j 11:48	29°♉29'55		
opposition	-514 Nov 21 j 23:50	24°♉26'04	-0°37'48	
min. Earth dist.	-514 Nov 20 j 21:48	24°♉34'55	4.17017 AU	
direct	-513 Jan 20 j 04:58	19°♉25'24		
	-513 Apr 19 j 09:12	0°♊		
evening set	-513 May 27 j 00:19	8°♊02'47		
conjunction	-513 Jun 09 j 18:07	11°♊07'28	-0°05'05	
minimum elong	-513 Jun 09 j 18:08	11°♊07'28	0°05'05	
behind sun begin	-513 Jun 09 j 10:02	11°♊02'57		
behind sun end	-513 Jun 10 j 02:13	11°♊11'59		
max. Earth dist.	-513 Jun 11 j 02:10	11°♊25'26	6.23495 AU	
morning rise	-513 Jun 23 j 11:05	14°♊11'30		
asc. node	-513 Jul 27 j 23:05	21°♊33'56		
	-513 Sep 17 j 14:25	0°♋		
retrograde	-513 Oct 25 j 17:26	2°♋15'58		
	-513 Dec 02 j 17:01	30°℞♊		
opposition	-513 Dec 24 j 09:50	27°♊15'31	0°22'26	
min. Earth dist.	-513 Dec 23 j 20:54	27°♊19'51	4.29542 AU	
direct	-512 Feb 22 j 21:15	22°♊12'52		
	-512 May 09 j 04:14	0°♋		
evening set	-512 Jun 29 j 03:44	10°♋20'30		
conjunction	-512 Jul 12 j 15:45	13°♋17'59	0°34'27	
minimum elong	-512 Jul 12 j 15:43	13°♋17'58	0°34'27	
max. Earth dist.	-512 Jul 12 j 20:52	13°♋20'47	6.34873 AU	
morning rise	-512 Jul 26 j 01:28	16°♋14'09		
	-512 Oct 07 j 05:46	0°♌		
retrograde	-512 Nov 24 j 16:27	3°♌30'47		

Attention, astronomical year style is used: The year -511 in astronomical counting style is the year 512 BCE in historical counting style.

	-511 Jan 12 j 13:35	30℞♋	
opposition	-511 Jan 23 j 14:43	28°♋34'13	1°13'06
min. Earth dist.	-511 Jan 23 j 19:54	28°♋32'31	4.38973 AU
direct	-511 Mar 26 j 08:26	23°♋30'54	
	-511 Jun 04 j 03:35	0°♌	
evening set	-511 Jul 31 j 14:49	11°♌18'32	
conjunction	-511 Aug 13 j 18:37	14°♌09'53	1°02'43
minimum elong	-511 Aug 13 j 18:35	14°♌09'52	1°02'44
max. Earth dist.	-511 Aug 12 j 22:27	13°♌58'55	6.41593 AU
	-511 Aug 17 j 14:45	15°♌	
morning rise	-511 Aug 26 j 19:21	16°♌59'42	
	-511 Nov 03 j 16:41	0°♍	
retrograde	-511 Dec 25 j 01:37	3°♍53'16	
	-510 Feb 15 j 13:50	30℞♌	
opposition	-510 Feb 23 j 09:41	28°♌59'46	1°42'05
min. Earth dist.	-510 Feb 24 j 06:09	28°♌53'09	4.42703 AU
direct	-510 Apr 26 j 21:35	23°♌57'01	
	-510 Jul 03 j 10:53	0°♍	
evening set	-510 Aug 31 j 21:25	11°♍38'10	
max. Earth dist.	-510 Sep 12 j 03:22	14°♍05'17	6.41957 AU
conjunction	-510 Sep 13 j 17:40	14°♍26'15	1°13'15
minimum elong	-510 Sep 13 j 17:39	14°♍26'14	1°13'15
morning rise	-510 Sep 26 j 10:58	17°♍12'59	
	-510 Dec 02 j 09:10	0°♎	
retrograde	-509 Jan 24 j 23:15	4°♎10'36	
	-509 Mar 21 j 06:01	30℞♍	
opposition	-509 Mar 26 j 15:44	29°♍18'46	1°43'19
min. Earth dist.	-509 Mar 27 j 23:18	29°♍08'42	4.39772 AU
direct	-509 May 28 j 08:14	24°♍17'43	
	-509 Aug 01 j 09:45	0°♎	
evening set	-509 Oct 01 j 16:53	12°♎06'23	
max. Earth dist.	-509 Oct 12 j 08:54	14°♎28'27	6.35875 AU
conjunction	-509 Oct 14 j 08:27	14°♎54'56	1°03'34
minimum elong	-509 Oct 14 j 08:29	14°♎54'57	1°03'34
morning rise	-509 Oct 26 j 22:16	17°♎42'44	
	-509 Dec 27 j 22:57	0°♏	
retrograde	-508 Feb 26 j 05:03	5°♏10'40	
opposition	-508 Apr 27 j 02:58	0°♏18'43	1°15'32
min. Earth dist.	-508 Apr 28 j 12:31	0°♏08'02	4.30881 AU
	-508 Apr 29 j 13:44	30℞♎	
direct	-508 Jun 28 j 07:08	25°♎20'03	
	-508 Aug 24 j 19:25	0°♏	
evening set	-508 Oct 31 j 22:12	13°♏29'24	
	-508 Nov 07 j 13:33	15°♏	
max. Earth dist.	-508 Nov 11 j 19:36	15°♏58'18	6.24901 AU
conjunction	-508 Nov 13 j 13:07	16°♏22'02	0°35'11
minimum elong	-508 Nov 13 j 13:09	16°♏22'03	0°35'10
morning rise	-508 Nov 26 j 03:21	19°♏14'37	
	-507 Jan 16 j 06:01	0°♐	
retrograde	-507 Mar 31 j 08:49	7°♐34'39	
opposition	-507 May 31 j 07:49	2°♐41'02	0°23'17
min. Earth dist.	-507 Jun 01 j 09:02	2°♐32'57	4.18453 AU
	-507 Jun 22 j 11:42	30℞♏	
direct	-507 Jul 31 j 09:16	27°♏45'07	
	-507 Sep 07 j 18:10	0°♐	
desc. node	-507 Oct 27 j 04:40	8°♐08'36	
evening set	-507 Dec 03 j 10:03	16°♐24'29	
max. Earth dist.	-507 Dec 15 j 02:21	19°♐08'48	6.12122 AU
conjunction	-507 Dec 16 j 03:20	19°♐23'29	-0°05'26
minimum elong	-507 Dec 16 j 03:19	19°♐23'28	0°05'26
behind sun begin	-507 Dec 15 j 19:34	19°♐18'57	
behind sun end	-507 Dec 16 j 11:03	19°♐28'00	
morning rise	-507 Dec 28 j 21:51	22°♐23'19	
	-506 Jan 31 j 18:36	0°♑	
retrograde	-506 May 06 j 15:28	11°♑46'28	
opposition	-506 Jul 06 j 08:36	6°♑49'41	-0°39'59
min. Earth dist.	-506 Jul 06 j 15:56	6°♑47'18	4.06305 AU
direct	-506 Sep 04 j 00:42	1°♑55'50	
evening set	-505 Jan 06 j 18:29	21°♑06'20	
conjunction	-505 Jan 19 j 17:11	24°♑12'08	-0°45'38
minimum elong	-505 Jan 19 j 17:08	24°♑12'06	0°45'38
max. Earth dist.	-505 Jan 19 j 21:28	24°♑14'41	6.01729 AU
morning rise	-505 Feb 01 j 18:14	27°♑19'24	
	-505 Feb 13 j 02:32	0°♒	
	-505 May 03 j 06:46	15°♒	
retrograde	-505 Jun 13 j 08:30	17°♒34'57	
	-505 Jul 24 j 11:35	15℞♒	
opposition	-505 Aug 12 j 14:14	12°♒34'14	-1°31'26
min. Earth dist.	-505 Aug 12 j 01:23	12°♒38'30	3.98789 AU
direct	-505 Oct 10 j 00:53	7°♒40'50	
	-505 Dec 18 j 15:13	15°♒	
evening set	-504 Feb 12 j 00:01	27°♒11'08	
	-504 Feb 23 j 17:23	0°♓	
conjunction	-504 Feb 25 j 05:49	0°♓21'55	-1°09'48
minimum elong	-504 Feb 25 j 05:48	0°♓21'54	1°09'48
max. Earth dist.	-504 Feb 26 j 13:50	0°♓41'09	5.97699 AU
morning rise	-504 Mar 09 j 15:02	3°♓34'26	
retrograde	-504 Jul 19 j 22:15	24°♓05'38	
opposition	-504 Sep 17 j 18:48	19°♓01'36	-1°48'02
min. Earth dist.	-504 Sep 16 j 13:46	19°♓11'26	3.98864 AU
direct	-504 Nov 14 j 16:24	14°♓06'31	
	-503 Mar 04 j 21:06	0°♈	
evening set	-503 Mar 20 j 06:24	3°♈34'56	
conjunction	-503 Apr 02 j 19:59	6°♈47'19	-1°07'05
minimum elong	-503 Apr 02 j 20:01	6°♈47'21	1°07'05
max. Earth dist.	-503 Apr 04 j 22:04	7°♈16'58	6.01782 AU
morning rise	-503 Apr 16 j 12:14	10°♈00'57	
	-503 Aug 21 j 17:09	0°♉	
retrograde	-503 Aug 25 j 03:47	0°♉01'11	
	-503 Aug 28 j 13:58	30℞♈	
min. Earth dist.	-503 Oct 22 j 08:37	25°♈07'02	4.06529 AU
opposition	-503 Oct 23 j 16:46	24°♈56'03	-1°22'50
direct	-503 Dec 21 j 00:20	19°♈58'00	
	-502 Mar 15 j 18:32	0°♉	
evening set	-502 Apr 26 j 06:35	9°♉03'24	
conjunction	-502 May 10 j 00:57	12°♉13'12	-0°39'23
minimum elong	-502 May 10 j 01:00	12°♉13'13	0°39'22
max. Earth dist.	-502 May 12 j 01:49	12°♉41'18	6.12348 AU
	-502 May 22 j 03:35	15°♉	
morning rise	-502 May 23 j 20:14	15°♉23'12	
	-502 Aug 05 j 05:35	0°♊	
retrograde	-502 Sep 28 j 03:12	4°♊22'20	
	-502 Nov 21 j 14:53	30℞♉	
opposition	-502 Nov 26 j 16:19	29°♉18'55	-0°29'21
min. Earth dist.	-502 Nov 25 j 14:28	29°♉27'41	4.18817 AU
direct	-501 Jan 25 j 00:13	24°♉17'59	
	-501 Mar 28 j 20:36	0°♊	
evening set	-501 May 31 j 22:48	12°♊50'42	
asc. node	-501 Jun 06 j 13:48	14°♊05'50	
conjunction	-501 Jun 14 j 15:56	15°♊54'18	0°00'52
minimum elong	-501 Jun 14 j 15:56	15°♊54'19	0°00'53
behind sun begin	-501 Jun 14 j 07:36	15°♊49'41	
behind sun end	-501 Jun 15 j 00:16	15°♊58'57	
max. Earth dist.	-501 Jun 15 j 20:19	16°♊10'10	6.25398 AU

Attention, astronomical year style is used: The year -501 in astronomical counting style is the year 502 BCE in historical counting style.

morning rise	-501 Jun	28 j 08:10	18°♊57'11	
	-501 Aug	21 j 11:47	0°♋	
retrograde	-501 Oct	30 j 04:06	6°♋53'01	
opposition	-501 Dec	28 j 20:53	1°♋53'06	0°30'27
min. Earth dist.	-501 Dec	28 j 10:42	1°♋56'30	4.31398 AU
	-500 Jan	12 j 08:27	30°℞♊	
direct	-500 Feb	27 j 14:13	26°♊50'17	
	-500 Apr	14 j 03:49	0°♋	
evening set	-500 Jul	03 j 19:18	14°♋53'09	
conjunction	-500 Jul	17 j 06:17	17°♋49'30	0°39'14
minimum elong	-500 Jul	17 j 06:15	17°♋49'29	0°39'14
max. Earth dist.	-500 Jul	17 j 09:17	17°♋51'08	6.36547 AU
morning rise	-500 Jul	30 j 14:35	20°♋44'25	
	-500 Sep	14 j 01:00	0°♌	
retrograde	-500 Nov	28 j 20:12	7°♌54'42	
opposition	-499 Jan	27 j 21:44	2°♌58'34	1°18'30
min. Earth dist.	-499 Jan	28 j 04:05	2°♌56'29	4.40369 AU
	-499 Feb	21 j 06:46	30°℞♋	
direct	-499 Mar	30 j 18:31	27°♋55'15	
	-499 May	07 j 17:12	0°♌	
	-499 Aug	01 j 22:55	15°♌	
evening set	-499 Aug	05 j 00:01	15°♌39'17	
max. Earth dist.	-499 Aug	17 j 03:12	18°♌17'02	6.42589 AU
conjunction	-499 Aug	18 j 02:31	18°♌29'42	1°05'15
minimum elong	-499 Aug	18 j 02:29	18°♌29'41	1°05'16
morning rise	-499 Aug	31 j 02:00	21°♌18'37	
	-499 Oct	12 j 18:33	0°♍	
retrograde	-499 Dec	29 j 06:05	8°♍09'19	
opposition	-498 Feb	27 j 15:33	3°♍16'07	1°43'49
min. Earth dist.	-498 Feb	28 j 14:41	3°♍08'39	4.43234 AU
	-498 Mar	27 j 08:17	30°℞♌	
direct	-498 May	01 j 06:45	28°♌13'29	
	-498 Jun	05 j 09:54	0°♍	
evening set	-498 Sep	05 j 02:13	15°♍52'59	
max. Earth dist.	-498 Sep	16 j 04:01	18°♍17'57	6.41951 AU
conjunction	-498 Sep	17 j 21:32	18°♍40'40	1°13'04
minimum elong	-498 Sep	17 j 21:32	18°♍40'40	1°13'03
morning rise	-498 Sep	30 j 14:08	21°♍27'07	
	-498 Nov	11 j 03:38	0°♎	
retrograde	-497 Jan	29 j 04:46	8°♎25'57	
opposition	-497 Mar	30 j 22:56	3°♎34'07	1°41'06
min. Earth dist.	-497 Apr	01 j 07:27	3°♎23'44	4.39226 AU
	-497 May	01 j 04:51	30°℞♍	
direct	-497 Jun	01 j 15:03	28°♍33'13	
	-497 Jul	03 j 03:19	0°♎	
evening set	-497 Oct	05 j 20:43	16°♎22'57	
max. Earth dist.	-497 Oct	16 j 12:48	18°♎45'23	6.34825 AU
conjunction	-497 Oct	18 j 12:03	19°♎11'46	1°00'41
minimum elong	-497 Oct	18 j 12:05	19°♎11'47	1°00'42
morning rise	-497 Oct	31 j 01:31	21°♎59'54	
	-497 Dec	07 j 20:50	0°♏	
retrograde	-496 Mar	01 j 15:40	9°♏33'10	
opposition	-496 May	01 j 14:26	4°♏41'05	1°09'41
min. Earth dist.	-496 May	03 j 00:31	4°♏30'14	4.29364 AU
	-496 Jun	18 j 22:38	30°℞♎	
direct	-496 Jul	02 j 16:13	29°♎42'42	
	-496 Jul	16 j 09:37	0°♏	
	-496 Oct	23 j 04:02	15°♏	
evening set	-496 Nov	05 j 04:51	17°♏55'51	
max. Earth dist.	-496 Nov	16 j 01:34	20°♏25'02	6.23029 AU
conjunction	-496 Nov	17 j 19:49	20°♏49'17	0°30'13
minimum elong	-496 Nov	17 j 19:51	20°♏49'18	0°30'12
morning rise	-496 Nov	30 j 10:39	23°♏42'52	
	-496 Dec	28 j 19:38	0°♐	
retrograde	-495 Apr	05 j 03:50	12°♐12'01	
opposition	-495 Jun	05 j 02:03	7°♐18'00	0°14'58
min. Earth dist.	-495 Jun	06 j 01:46	7°♐10'23	4.16338 AU
direct	-495 Aug	04 j 23:02	2°♐22'18	
desc. node	-495 Sep	07 j 23:15	4°♐09'54	
evening set	-495 Dec	07 j 22:58	21°♐07'38	
conjunction	-495 Dec	20 j 17:05	24°♐07'51	-0°11'12
minimum elong	-495 Dec	20 j 17:04	24°♐07'51	0°11'13
behind sun begin	-495 Dec	20 j 11:04	24°♐04'19	
behind sun end	-495 Dec	20 j 23:05	24°♐11'23	
max. Earth dist.	-495 Dec	19 j 20:01	23°♐55'26	6.09963 AU
morning rise	-494 Jan	02 j 12:20	27°♐08'59	
	-494 Jan	14 j 18:41	0°♑	
retrograde	-494 May	11 j 19:47	16°♑42'41	
opposition	-494 Jul	11 j 09:53	11°♑45'26	-0°48'16
min. Earth dist.	-494 Jul	11 j 15:21	11°♑43'39	4.04302 AU
direct	-494 Sep	08 j 20:48	6°♑51'45	
evening set	-493 Jan	11 j 16:18	26°♑08'26	
conjunction	-493 Jan	24 j 15:52	29°♑15'24	-0°50'12
minimum elong	-493 Jan	24 j 15:50	29°♑15'23	0°50'11
max. Earth dist.	-493 Jan	24 j 22:48	29°♑19'34	6.00057 AU
	-493 Jan	27 j 18:03	0°♒	
morning rise	-493 Feb	06 j 18:19	2°♒23'59	
	-493 Apr	05 j 08:08	15°♒	
retrograde	-493 Jun	18 j 14:56	22°♒47'09	
opposition	-493 Aug	17 j 19:40	17°♒45'52	-1°36'09
min. Earth dist.	-493 Aug	17 j 03:05	17°♒51'24	3.97656 AU
	-493 Sep	08 j 21:22	15°℞♒	
direct	-493 Oct	15 j 01:49	12°♒52'21	
	-493 Nov	19 j 22:40	15°♒	
	-492 Feb	06 j 22:36	0°♓	
evening set	-492 Feb	17 j 05:09	2°♓26'21	
conjunction	-492 Mar	01 j 12:20	5°♓37'57	-1°11'03
minimum elong	-492 Mar	01 j 12:19	5°♓37'56	1°11'03
max. Earth dist.	-492 Mar	03 j 01:07	6°♓00'04	5.97210 AU
morning rise	-492 Mar	14 j 22:40	8°♓51'13	
retrograde	-492 Jul	25 j 06:02	29°♓22'59	
opposition	-492 Sep	22 j 23:58	24°♓18'33	-1°46'47
min. Earth dist.	-492 Sep	21 j 17:58	24°♓28'44	3.99074 AU
direct	-492 Nov	19 j 22:10	19°♓23'05	
	-491 Feb	14 j 05:35	0°♈	
evening set	-491 Mar	25 j 14:13	8°♈50'43	
conjunction	-491 Apr	08 j 04:51	12°♈03'10	-1°04'21
minimum elong	-491 Apr	08 j 04:53	12°♈03'12	1°04'21
max. Earth dist.	-491 Apr	10 j 09:46	12°♈34'23	6.02658 AU
morning rise	-491 Apr	21 j 21:57	15°♈16'45	
	-491 Jul	02 j 05:19	0°♉	
retrograde	-491 Aug	30 j 03:42	5°♉10'16	
min. Earth dist.	-491 Oct	27 j 07:34	0°♉16'26	4.07952 AU
opposition	-491 Oct	28 j 16:43	0°♉05'08	-1°16'20
	-491 Oct	29 j 07:45	30°℞♈	
direct	-491 Dec	26 j 01:46	25°♈06'38	
	-490 Feb	20 j 17:25	0°♉	
evening set	-490 May	01 j 11:45	14°♉07'44	
	-490 May	05 j 07:23	15°♉	
conjunction	-490 May	15 j 06:11	17°♉16'46	-0°33'59
minimum elong	-490 May	15 j 06:14	17°♉16'47	0°33'59
max. Earth dist.	-490 May	17 j 04:35	17°♉43'20	6.14164 AU
morning rise	-490 May	29 j 01:31	20°♉25'55	
	-490 Jul	12 j 17:55	0°♊	

Attention, astronomical year style is used: The year -490 in astronomical counting style is the year 491 BCE in historical counting style.

retrograde	-490 Oct 02 j 19:40	9♊15'15		
min. Earth dist.	-490 Nov 30 j 09:38	4♊20'11	4.20791 AU	
opposition	-490 Dec 01 j 09:21	4♊12'09	-0°20'38	
	-489 Jan 07 j 13:09	30℞♉		
direct	-489 Jan 29 j 22:42	29°♉10'49		
	-489 Feb 21 j 14:07	0°♊		
asc. node	-489 Apr 15 j 03:07	6°♊58'34		
evening set	-489 Jun 05 j 21:24	17°♊38'14		
conjunction	-489 Jun 19 j 14:02	20°♊40'46	0°06'48	
minimum elong	-489 Jun 19 j 14:02	20°♊40'46	0°06'49	
behind sun begin	-489 Jun 19 j 06:19	20°♊36'29		
behind sun end	-489 Jun 19 j 21:45	20°♊45'02		
max. Earth dist.	-489 Jun 20 j 16:39	20°♊55'34	6.27356 AU	
morning rise	-489 Jul 03 j 05:11	23°♊42'22		
	-489 Aug 01 j 15:41	0°♋		
retrograde	-489 Nov 03 j 13:19	11°♋29'42		
opposition	-488 Jan 02 j 08:11	6°♋30'19	0°38'22	
min. Earth dist.	-488 Jan 01 j 23:32	6°♋33'12	4.33161 AU	
direct	-488 Mar 03 j 05:29	1°♋27'24		
evening set	-488 Jul 08 j 11:05	19°♋26'05		
conjunction	-488 Jul 21 j 20:44	22°♋21'20	0°43'52	
minimum elong	-488 Jul 21 j 20:41	22°♋21'18	0°43'52	
max. Earth dist.	-488 Jul 21 j 18:29	22°♋20'06	6.37959 AU	
morning rise	-488 Aug 04 j 03:54	25°♋15'10		
	-488 Aug 26 j 13:04	0°♌		
retrograde	-488 Dec 03 j 04:12	12°♌20'33		
opposition	-487 Feb 01 j 06:17	7°♌24'54	1°23'38	
min. Earth dist.	-487 Feb 01 j 16:06	7°♌21'42	4.41344 AU	
direct	-487 Apr 04 j 07:42	2°♌21'37		
	-487 Jul 16 j 08:31	15°♌		
evening set	-487 Aug 09 j 10:29	20°♌03'37		
max. Earth dist.	-487 Aug 21 j 09:59	22°♌39'18	6.43040 AU	
conjunction	-487 Aug 22 j 11:57	22°♌53'25	1°07'32	
minimum elong	-487 Aug 22 j 11:56	22°♌53'24	1°07'32	
morning rise	-487 Sep 04 j 10:12	25°♌41'41		
	-487 Sep 24 j 18:10	0°♍		
retrograde	-486 Jan 02 j 12:14	12°♍31'36		
opposition	-486 Mar 04 j 00:05	7°♍38'42	1°45'10	
min. Earth dist.	-486 Mar 05 j 00:21	7°♍30'53	4.43159 AU	
direct	-486 May 05 j 15:42	2°♍36'17		
evening set	-486 Sep 09 j 10:19	20°♍16'15		
max. Earth dist.	-486 Sep 20 j 09:43	22°♍40'12	6.41350 AU	
conjunction	-486 Sep 22 j 04:49	23°♍03'51	1°12'31	
minimum elong	-486 Sep 22 j 04:50	23°♍03'52	1°12'31	
morning rise	-486 Oct 04 j 20:44	25°♍50'17		
	-486 Oct 24 j 07:00	0°♎		
retrograde	-485 Feb 02 j 16:26	12°♎52'28		
opposition	-485 Apr 04 j 11:02	8°♎00'46	1°38'20	
min. Earth dist.	-485 Apr 05 j 21:21	7°♎49'50	4.38125 AU	
direct	-485 Jun 06 j 03:06	3°♎00'13		
evening set	-485 Oct 10 j 05:23	20°♎52'42		
max. Earth dist.	-485 Oct 20 j 19:51	23°♎14'48	6.33305 AU	
conjunction	-485 Oct 22 j 20:26	23°♎42'02	0°57'21	
minimum elong	-485 Oct 22 j 20:29	23°♎42'03	0°57'20	
morning rise	-485 Nov 04 j 10:00	26°♎30'48		
	-485 Nov 20 j 06:26	0°♏		
retrograde	-484 Mar 06 j 09:01	14°♏11'15		
opposition	-484 May 06 j 08:27	9°♏19'00	1°03'06	
min. Earth dist.	-484 May 07 j 17:19	9°♏08'31	4.27512 AU	
direct	-484 Jul 07 j 06:18	4°♏21'00		
	-484 Oct 05 j 17:11	15°♏		
evening set	-484 Nov 09 j 17:38	22°♏38'54		
max. Earth dist.	-484 Nov 20 j 17:59	25°♏10'48	6.21021 AU	
conjunction	-484 Nov 22 j 09:00	25°♏33'18	0°24'45	
minimum elong	-484 Nov 22 j 09:01	25°♏33'19	0°24'45	
morning rise	-484 Dec 05 j 00:08	28°♏27'55		
	-484 Dec 11 j 17:32	0°♐		
retrograde	-483 Apr 10 j 06:52	17°♐06'40		
opposition	-483 Jun 10 j 03:11	12°♐12'22	0°06'01	
min. Earth dist.	-483 Jun 11 j 01:29	12°♐05'12	4.14320 AU	
desc. node	-483 Jul 17 j 22:37	8°♐06'22		
direct	-483 Aug 09 j 19:43	7°♐17'04		
evening set	-483 Dec 12 j 18:40	26°♐07'51		
conjunction	-483 Dec 25 j 13:19	29°♐09'08	-0°17'16	
minimum elong	-483 Dec 25 j 13:17	29°♐09'07	0°17'17	
max. Earth dist.	-483 Dec 24 j 18:44	28°♐58'08	6.08132 AU	
	-483 Dec 29 j 03:08	0°♑		
morning rise	-482 Jan 07 j 09:38	2°♑11'30		
retrograde	-482 May 17 j 03:00	21°♑54'15		
opposition	-482 Jul 16 j 16:42	16°♑56'27	-0°56'38	
min. Earth dist.	-482 Jul 16 j 17:56	16°♑56'03	4.02864 AU	
direct	-482 Sep 13 j 21:42	12°♑02'57		
	-481 Jan 10 j 22:45	0°♒		
evening set	-481 Jan 16 j 19:02	1°♒23'32		
conjunction	-481 Jan 29 j 19:42	4°♒31'22	-0°54'37	
minimum elong	-481 Jan 29 j 19:39	4°♒31'20	0°54'37	
max. Earth dist.	-481 Jan 30 j 08:38	4°♒39'09	5.99165 AU	
morning rise	-481 Feb 11 j 23:05	7°♒40'47		
	-481 Mar 15 j 15:44	15°♒		
retrograde	-481 Jun 24 j 01:45	28°♒07'57		
min. Earth dist.	-481 Aug 22 j 09:27	23°♒12'22	3.97438 AU	
opposition	-481 Aug 23 j 04:07	23°♒06'07	-1°40'15	
direct	-481 Oct 20 j 09:06	18°♒12'26		
	-480 Jan 19 j 18:12	0°♓		
evening set	-480 Feb 22 j 12:20	7°♓46'24		
conjunction	-480 Mar 06 j 20:34	10°♓58'16	-1°11'49	
minimum elong	-480 Mar 06 j 20:33	10°♓58'16	1°11'48	
max. Earth dist.	-480 Mar 08 j 13:22	11°♓22'45	5.97673 AU	
morning rise	-480 Mar 20 j 08:00	14°♓11'46		
	-480 Jun 04 j 16:47	0°♈		
retrograde	-480 Jul 30 j 10:40	4°♈39'38		
	-480 Sep 25 j 02:06	30℞♓		
min. Earth dist.	-480 Sep 26 j 20:01	29°♓45'47	4.00190 AU	
opposition	-480 Sep 28 j 04:01	29°♓34'54	-1°44'42	
direct	-480 Nov 25 j 01:50	24°♓39'03		
	-479 Jan 22 j 18:28	0°♈		
evening set	-479 Mar 30 j 20:49	14°♈02'43		
conjunction	-479 Apr 13 j 12:04	17°♈14'44	-1°01'13	
minimum elong	-479 Apr 13 j 12:07	17°♈14'46	1°01'13	
max. Earth dist.	-479 Apr 15 j 16:07	17°♈45'19	6.04296 AU	
morning rise	-479 Apr 27 j 05:49	20°♈27'47		
	-479 Jun 09 j 11:57	0°♉		
retrograde	-479 Sep 03 j 23:19	10°♉11'51		
min. Earth dist.	-479 Nov 01 j 05:05	5°♉17'44	4.09908 AU	
opposition	-479 Nov 02 j 13:12	5°♉06'46	-1°09'27	
direct	-479 Dec 31 j 02:30	0°♉07'45		
	-478 Apr 18 j 10:01	15°♉		
evening set	-478 May 06 j 13:00	19°♉03'04		
conjunction	-478 May 20 j 07:38	22°♉11'12	-0°28'32	
minimum elong	-478 May 20 j 07:41	22°♉11'13	0°28'32	
max. Earth dist.	-478 May 22 j 04:57	22°♉37'02	6.16280 AU	
morning rise	-478 Jun 03 j 02:31	25°♉19'15		
	-478 Jun 24 j 05:33	0°♊		

Attention, astronomical year style is used: The year -478 in astronomical counting style is the year 479 BCE in historical counting style.

retrograde	-478 Oct 07 j 08:19	13°♊58'17		
opposition	-478 Dec 05 j 22:28	8°♊55'39	-0°12'07	
min. Earth dist.	-478 Dec 05 j 00:35	9°♊03'03	4.22849 AU	
direct	-477 Feb 03 j 16:28	3°♊54'01		
asc. node	-477 Feb 23 j 03:22	4°♊30'15		
evening set	-477 Jun 10 j 16:01	22°♊16'12		
conjunction	-477 Jun 24 j 07:44	25°♊17'37	0°12'27	
minimum elong	-477 Jun 24 j 07:42	25°♊17'36	0°12'27	
behind sun begin	-477 Jun 24 j 02:27	25°♊14'42		
behind sun end	-477 Jun 24 j 12:58	25°♊20'30		
max. Earth dist.	-477 Jun 25 j 04:44	25°♊29'15	6.29181 AU	
morning rise	-477 Jul 07 j 22:04	28°♊18'03		
	-477 Jul 15 j 16:28	0°♋		
retrograde	-477 Nov 07 j 20:39	15°♋57'53		
opposition	-476 Jan 06 j 16:16	10°♋59'01	0°45'46	
min. Earth dist.	-476 Jan 06 j 10:54	11°♋00'48	4.34629 AU	
direct	-476 Mar 07 j 18:32	5°♋55'53		
evening set	-476 Jul 12 j 23:40	23°♋51'33		
conjunction	-476 Jul 26 j 08:22	26°♋45'57	0°48'07	
minimum elong	-476 Jul 26 j 08:19	26°♋45'56	0°48'08	
max. Earth dist.	-476 Jul 26 j 03:13	26°♋43'09	6.38961 AU	
morning rise	-476 Aug 08 j 14:06	29°♋38'51		
	-476 Aug 10 j 05:13	0°♌		
	-476 Nov 04 j 10:42	15°♌		
retrograde	-476 Dec 07 j 08:48	16°♌40'48		
	-475 Jan 09 j 07:10	15°℞♌		
opposition	-475 Feb 05 j 12:36	11°♌45'38	1°28'12	
min. Earth dist.	-475 Feb 06 j 00:19	11°♌41'49	4.41844 AU	
direct	-475 Apr 08 j 15:59	6°♌42'24		
	-475 Jun 28 j 04:54	15°♌		
evening set	-475 Aug 13 j 19:25	24°♌23'56		
conjunction	-475 Aug 26 j 19:41	27°♌13'18	1°09'24	
minimum elong	-475 Aug 26 j 19:39	27°♌13'17	1°09'24	
max. Earth dist.	-475 Aug 25 j 13:15	26°♌56'45	6.42984 AU	
morning rise	-475 Sep 08 j 17:03	0°♍01'12		
	-475 Sep 08 j 14:50	0°♍		
retrograde	-474 Jan 06 j 20:55	16°♍52'02		
opposition	-474 Mar 08 j 08:32	11°♍59'25	1°45'57	
min. Earth dist.	-474 Mar 09 j 11:40	11°♍50'42	4.42575 AU	
direct	-474 May 10 j 01:49	6°♍57'11		
evening set	-474 Sep 13 j 18:05	24°♍39'04		
max. Earth dist.	-474 Sep 24 j 15:42	27°♍02'27	6.40274 AU	
conjunction	-474 Sep 26 j 12:04	27°♍26'51	1°11'33	
minimum elong	-474 Sep 26 j 12:05	27°♍26'51	1°11'33	
	-474 Oct 08 j 02:44	0°♎		
morning rise	-474 Oct 09 j 03:24	0°♎13'29		
retrograde	-473 Feb 07 j 03:58	17°♎20'32		
opposition	-473 Apr 09 j 00:08	12°♎28'51	1°34'58	
min. Earth dist.	-473 Apr 10 j 09:55	12°♎18'05	4.36645 AU	
direct	-473 Jun 10 j 13:14	7°♎28'39		
evening set	-473 Oct 14 j 15:23	25°♎25'00		
max. Earth dist.	-473 Oct 25 j 07:06	27°♎48'25	6.31547 AU	
conjunction	-473 Oct 27 j 06:17	28°♎14'58	0°53'38	
minimum elong	-473 Oct 27 j 06:19	28°♎15'00	0°53'37	
	-473 Nov 04 j 00:50	0°♏		
morning rise	-473 Nov 08 j 19:49	1°♏04'29		
	-472 Jan 19 j 16:40	15°♏		
retrograde	-472 Mar 11 j 05:59	18°♏52'47		
	-472 May 03 j 07:46	15°℞♏		
opposition	-472 May 11 j 04:20	14°♏00'23	0°56'00	
min. Earth dist.	-472 May 12 j 12:55	13°♏50'00	4.25585 AU	
direct	-472 Jul 11 j 23:20	9°♏02'48		
	-472 Sep 15 j 00:18	15°♏		
evening set	-472 Nov 14 j 08:10	27°♏25'29		
max. Earth dist.	-472 Nov 25 j 10:29	29°♏59'14	6.19097 AU	
	-472 Nov 25 j 11:49	0°♐		
conjunction	-472 Nov 26 j 23:48	0°♐20'50	0°19'03	
minimum elong	-472 Nov 26 j 23:49	0°♐20'51	0°19'02	
morning rise	-472 Dec 09 j 15:38	3°♐16'32		
retrograde	-471 Apr 15 j 09:13	22°♐04'25		
desc. node	-471 May 26 j 18:02	19°♐33'35		
opposition	-471 Jun 15 j 05:47	17°♐09'40	-0°03'07	
min. Earth dist.	-471 Jun 16 j 00:15	17°♐03'42	4.12559 AU	
direct	-471 Aug 14 j 16:20	12°♐14'43		
	-471 Dec 12 j 16:25	0°♑		
evening set	-471 Dec 17 j 15:17	1°♑09'49		
conjunction	-471 Dec 30 j 10:40	4°♑12'02	-0°23'15	
minimum elong	-471 Dec 30 j 10:38	4°♑12'01	0°23'15	
max. Earth dist.	-471 Dec 29 j 21:30	4°♑04'13	6.06692 AU	
morning rise	-470 Jan 12 j 07:44	7°♑15'22		
retrograde	-470 May 22 j 11:54	27°♑05'28		
opposition	-470 Jul 21 j 23:36	22°♑07'06	-1°04'34	
min. Earth dist.	-470 Jul 21 j 22:32	22°♑07'27	4.01882 AU	
direct	-470 Sep 19 j 01:43	17°♑13'44		
	-470 Dec 24 j 10:51	0°♒		
evening set	-469 Jan 21 j 21:34	6°♒36'30		
conjunction	-469 Feb 03 j 23:08	9°♒44'56	-0°58'34	
minimum elong	-469 Feb 03 j 23:05	9°♒44'55	0°58'34	
max. Earth dist.	-469 Feb 04 j 16:21	9°♒55'18	5.98708 AU	
morning rise	-469 Feb 17 j 03:38	12°♒55'02		
	-469 Feb 25 j 22:08	15°♒		
	-469 May 13 j 01:53	0°♓		
retrograde	-469 Jun 29 j 08:59	3°♓24'04		
	-469 Aug 15 j 23:54	30°℞♒		
opposition	-469 Aug 28 j 10:16	28°♒21'47	-1°43'28	
min. Earth dist.	-469 Aug 27 j 12:39	28°♒29'01	3.97590 AU	
direct	-469 Oct 25 j 12:31	23°♒27'56		
	-469 Dec 29 j 18:05	0°♓		
evening set	-468 Feb 27 j 17:52	13°♓00'58		
conjunction	-468 Mar 12 j 03:03	16°♓12'57	-1°12'00	
minimum elong	-468 Mar 12 j 03:03	16°♓12'57	1°12'00	
max. Earth dist.	-468 Mar 13 j 21:25	16°♓38'19	5.98386 AU	
morning rise	-468 Mar 25 j 15:32	19°♓26'33		
	-468 May 11 j 23:31	0°♈		
retrograde	-468 Aug 04 j 11:49	9°♈49'50		
min. Earth dist.	-468 Oct 01 j 20:53	4°♈55'57	4.01382 AU	
opposition	-468 Oct 03 j 05:20	4°♈44'53	-1°41'51	
	-468 Nov 19 j 18:23	30°℞♓		
direct	-468 Nov 30 j 04:41	29°♓48'37		
	-468 Dec 10 j 16:06	0°♈		
evening set	-467 Apr 05 j 00:51	19°♈08'33		
conjunction	-467 Apr 18 j 17:01	22°♈20'13	-0°57'42	
minimum elong	-467 Apr 18 j 17:04	22°♈20'15	0°57'41	
max. Earth dist.	-467 Apr 20 j 22:13	22°♈51'20	6.05872 AU	
morning rise	-467 May 02 j 11:06	25°♈32'43		
	-467 May 22 j 00:31	0°♉		
	-467 Aug 30 j 18:49	15°♉		
retrograde	-467 Sep 08 j 18:42	15°♉08'03		
	-467 Sep 17 j 17:24	15°℞♉		
min. Earth dist.	-467 Nov 06 j 00:47	10°♉13'46	4.11688 AU	
opposition	-467 Nov 07 j 07:38	10°♉03'15	-1°02'14	
direct	-466 Jan 05 j 00:23	5°♉03'53		
	-466 Mar 31 j 03:04	15°♉		
evening set	-466 May 11 j 12:45	23°♉54'25		

Attention, astronomical year style is used: The year -466 in astronomical counting style is the year 467 BCE in historical counting style.

conjunction	-466 May 25 j 07:12	27°♉01'43	-0°22'59
minimum elong	-466 May 25 j 07:14	27°♉01'44	0°22'58
max. Earth dist.	-466 May 27 j 00:31	27°♉25'10	6.18116 AU
	-466 Jun 07 j 10:12	0°♊	
morning rise	-466 Jun 08 j 01:56	0°♊08'51	
retrograde	-466 Oct 11 j 19:26	18°♊39'03	
opposition	-466 Dec 10 j 10:28	13°♊36'55	-0°03'37
min. Earth dist.	-466 Dec 09 j 14:38	13°♊43'36	4.24575 AU
asc. node	-465 Jan 03 j 03:42	10°♊38'24	
direct	-465 Feb 08 j 08:51	8°♊34'58	
evening set	-465 Jun 15 j 09:54	26°♊53'18	
conjunction	-465 Jun 29 j 00:59	29°♊53'47	0°18'00
minimum elong	-465 Jun 29 j 00:58	29°♊53'46	0°18'00
	-465 Jun 29 j 12:15	0°♋	
max. Earth dist.	-465 Jun 29 j 18:50	0°♋03'39	6.30683 AU
morning rise	-465 Jul 12 j 14:11	2°♋53'09	
retrograde	-465 Nov 12 j 04:46	20°♋26'47	
opposition	-464 Jan 11 j 00:38	15°♋28'32	0°52'55
min. Earth dist.	-464 Jan 10 j 21:48	15°♋29'28	4.35798 AU
direct	-464 Mar 12 j 06:39	10°♋25'21	
evening set	-464 Jul 17 j 12:27	28°♋18'51	
	-464 Jul 25 j 06:50	0°♌	
conjunction	-464 Jul 30 j 19:55	1°♌12'29	0°52'07
minimum elong	-464 Jul 30 j 19:52	1°♌12'28	0°52'07
max. Earth dist.	-464 Jul 30 j 09:36	1°♌06'52	6.39692 AU
morning rise	-464 Aug 13 j 00:37	4°♌04'39	
	-464 Oct 07 j 06:00	15°♌	
retrograde	-464 Dec 11 j 16:15	21°♌04'11	
opposition	-463 Feb 09 j 20:23	16°♌09'28	1°32'19
min. Earth dist.	-463 Feb 10 j 10:55	16°♌04'44	4.42122 AU
	-463 Feb 18 j 19:44	15°℞♌	
direct	-463 Apr 13 j 02:19	11°♌06'16	
	-463 Jun 05 j 03:41	15°♌	
evening set	-463 Aug 18 j 04:58	28°♌47'47	
	-463 Aug 23 j 18:22	0°♍	
max. Earth dist.	-463 Aug 29 j 20:48	1°♍19'38	6.42787 AU
conjunction	-463 Aug 31 j 04:23	1°♍36'50	1°10'55
minimum elong	-463 Aug 31 j 04:22	1°♍36'49	1°10'55
morning rise	-463 Sep 13 j 00:35	4°♍24'24	
retrograde	-462 Jan 11 j 04:59	21°♍16'34	
opposition	-462 Mar 12 j 18:23	16°♍24'13	1°46'10
min. Earth dist.	-462 Mar 13 j 22:05	16°♍15'20	4.41946 AU
direct	-462 May 14 j 10:56	11°♍22'17	
evening set	-462 Sep 18 j 03:05	29°♍05'57	
	-462 Sep 22 j 05:40	0°♎	
max. Earth dist.	-462 Sep 28 j 22:30	1°♎28'35	6.39266 AU
conjunction	-462 Sep 30 j 20:17	1°♎53'51	1°10'11
minimum elong	-462 Sep 30 j 20:18	1°♎53'52	1°10'10
morning rise	-462 Oct 13 j 11:15	4°♎40'44	
retrograde	-461 Feb 11 j 19:15	21°♎52'24	
opposition	-461 Apr 13 j 14:53	17°♎00'45	1°31'02
min. Earth dist.	-461 Apr 15 j 01:30	16°♎49'43	4.35329 AU
direct	-461 Jun 15 j 03:03	12°♎00'54	
evening set	-461 Oct 19 j 01:46	0°♏00'11	
	-461 Oct 19 j 01:27	0°♏	
max. Earth dist.	-461 Oct 29 j 18:41	2°♏24'45	6.30050 AU
conjunction	-461 Oct 31 j 16:39	2°♏50'43	0°49'35
minimum elong	-461 Oct 31 j 16:41	2°♏50'45	0°49'35
morning rise	-461 Nov 13 j 06:15	5°♏40'53	
	-461 Dec 27 j 08:25	15°♏	
retrograde	-460 Mar 16 j 01:12	23°♏36'07	
opposition	-460 May 16 j 00:47	18°♏43'26	0°48'34
min. Earth dist.	-460 May 17 j 06:37	18°♏33'55	4.24012 AU
	-460 Jun 18 j 03:47	15°℞♏	
direct	-460 Jul 16 j 14:53	13°♏46'17	
	-460 Aug 14 j 00:10	15°♏	
	-460 Nov 09 j 06:55	0°♐	
evening set	-460 Nov 18 j 22:29	2°♐12'16	
max. Earth dist.	-460 Nov 30 j 04:40	4°♐48'46	6.17595 AU
conjunction	-460 Dec 01 j 14:21	5°♐08'21	0°13'18
minimum elong	-460 Dec 01 j 14:22	5°♐08'21	0°13'16
behind sun begin	-460 Dec 01 j 09:35	5°♐05'36	
behind sun end	-460 Dec 01 j 19:09	5°♐11'07	
morning rise	-460 Dec 14 j 06:38	8°♐04'53	
desc. node	-459 Apr 05 j 16:23	26°♐39'43	
retrograde	-459 Apr 20 j 12:02	27°♐00'20	
opposition	-459 Jun 20 j 07:27	22°♐05'06	-0°12'05
min. Earth dist.	-459 Jun 21 j 00:04	21°♐59'43	4.11232 AU
direct	-459 Aug 19 j 14:50	17°♐10'26	
	-459 Nov 25 j 17:00	0°♑	
evening set	-459 Dec 22 j 10:39	6°♑08'15	
conjunction	-458 Jan 04 j 06:40	9°♑11'10	-0°28'56
minimum elong	-458 Jan 04 j 06:38	9°♑11'09	0°28'56
max. Earth dist.	-458 Jan 03 j 21:16	9°♑05'35	6.05663 AU
morning rise	-458 Jan 17 j 04:36	12°♑15'19	
	-458 Apr 19 j 23:22	0°♒	
retrograde	-458 May 27 j 15:59	2°♒10'49	
	-458 Jul 04 j 11:45	30°℞♑	
opposition	-458 Jul 27 j 03:36	27°♑11'53	-1°11'47
min. Earth dist.	-458 Jul 26 j 23:00	27°♑13'24	4.01276 AU
direct	-458 Sep 24 j 01:28	22°♑18'34	
	-458 Dec 04 j 22:46	0°♒	
evening set	-457 Jan 26 j 21:33	11°♒42'19	
conjunction	-457 Feb 08 j 23:55	14°♒51'11	-1°01'57
minimum elong	-457 Feb 08 j 23:53	14°♒51'09	1°01'56
	-457 Feb 09 j 14:34	15°♒	
max. Earth dist.	-457 Feb 09 j 20:09	15°♒03'21	5.98550 AU
morning rise	-457 Feb 22 j 05:27	18°♒01'46	
	-457 Apr 17 j 09:47	0°♓	
retrograde	-457 Jul 04 j 12:05	8°♓31'30	
opposition	-457 Sep 02 j 12:48	3°♓28'41	-1°45'45
min. Earth dist.	-457 Sep 01 j 13:32	3°♓36'31	3.97908 AU
	-457 Oct 01 j 10:09	30°℞♒	
direct	-457 Oct 30 j 14:13	28°♒34'33	
	-457 Nov 28 j 16:01	0°♓	
evening set	-456 Mar 03 j 19:54	18°♓06'10	
conjunction	-456 Mar 17 j 06:14	21°♓18'17	-1°11'37
minimum elong	-456 Mar 17 j 06:15	21°♓18'17	1°11'37
max. Earth dist.	-456 Mar 19 j 03:50	21°♓45'30	5.99144 AU
morning rise	-456 Mar 30 j 19:29	24°♓31'53	
	-456 Apr 23 j 10:38	0°♈	
retrograde	-456 Aug 09 j 11:05	14°♈50'19	
min. Earth dist.	-456 Oct 06 j 18:46	9°♈56'13	4.02504 AU
opposition	-456 Oct 08 j 02:52	9°♈45'18	-1°38'21
direct	-456 Dec 05 j 03:37	4°♈48'38	
evening set	-455 Apr 10 j 01:59	24°♈05'22	
conjunction	-455 Apr 23 j 18:38	27°♈16'41	-0°53'52
minimum elong	-455 Apr 23 j 18:42	27°♈16'43	0°53'53
max. Earth dist.	-455 Apr 25 j 21:46	27°♈46'28	6.07246 AU
	-455 May 05 j 11:34	0°♉	
morning rise	-455 May 07 j 13:20	0°♉28'46	
	-455 Jul 17 j 21:24	15°♉	
retrograde	-455 Sep 13 j 09:28	19°♉56'16	
	-455 Nov 10 j 22:39	15°℞♉	

Attention, astronomical year style is used: The year -455 in astronomical counting style is the year 456 BCE in historical counting style.

opposition	-455 Nov 11 j 22:54	14°♉51'44	-0°54'52
min. Earth dist.	-455 Nov 10 j 16:50	15°♉01'59	4.13177 AU
direct	-454 Jan 09 j 18:35	9°♉51'57	
	-454 Mar 09 j 11:25	15°♉	
evening set	-454 May 16 j 09:59	28°♉39'01	
	-454 May 22 j 09:39	0°♊	
conjunction	-454 May 30 j 04:27	1°♊45'40	-0°17'25
minimum elong	-454 May 30 j 04:28	1°♊45'40	0°17'25
max. Earth dist.	-454 May 31 j 19:01	2°♊07'29	6.19624 AU
morning rise	-454 Jun 12 j 22:43	4°♊51'57	
retrograde	-454 Oct 16 j 07:11	23°♊14'46	
asc. node	-454 Nov 14 j 03:12	21°♊53'36	
opposition	-454 Dec 14 j 21:06	18°♊13'10	0°04'41
min. Earth dist.	-454 Dec 14 j 04:01	18°♊18'55	4.25966 AU
direct	-453 Feb 12 j 23:57	13°♊11'01	
	-453 Jun 13 j 11:45	0°♋	
evening set	-453 Jun 20 j 02:25	1°♋26'34	
conjunction	-453 Jul 03 j 16:39	4°♋26'13	0°23'20
minimum elong	-453 Jul 03 j 16:37	4°♋26'12	0°23'21
max. Earth dist.	-453 Jul 04 j 06:35	4°♋33'54	6.31855 AU
morning rise	-453 Jul 17 j 04:56	7°♋24'43	
retrograde	-453 Nov 16 j 11:26	24°♋53'22	
opposition	-452 Jan 15 j 08:29	19°♋55'38	0°59'38
min. Earth dist.	-452 Jan 15 j 07:33	19°♋55'57	4.36701 AU
direct	-452 Mar 16 j 17:09	14°♋52'23	
	-452 Jul 09 j 05:02	0°♌	
evening set	-452 Jul 22 j 00:43	2°♌44'28	
conjunction	-452 Aug 04 j 07:07	5°♌37'25	0°55'46
minimum elong	-452 Aug 04 j 07:04	5°♌37'23	0°55'45
max. Earth dist.	-452 Aug 03 j 18:43	5°♌30'39	6.40268 AU
morning rise	-452 Aug 17 j 10:30	8°♌28'49	
	-452 Sep 17 j 16:11	15°♌	
retrograde	-452 Dec 15 j 23:09	25°♌26'22	
opposition	-451 Feb 14 j 04:00	20°♌32'05	1°35'52
min. Earth dist.	-451 Feb 14 j 20:19	20°♌26'48	4.42353 AU
direct	-451 Apr 17 j 12:05	15°♌29'04	
	-451 Aug 07 j 16:57	0°♍	
evening set	-451 Aug 22 j 14:08	3°♍10'23	
max. Earth dist.	-451 Sep 03 j 01:33	5°♍40'03	6.42630 AU
conjunction	-451 Sep 04 j 12:26	5°♍59'04	1°11'59
minimum elong	-451 Sep 04 j 12:25	5°♍59'03	1°12'00
morning rise	-451 Sep 17 j 07:51	8°♍46'21	
retrograde	-450 Jan 15 j 14:29	25°♍39'43	
opposition	-450 Mar 17 j 04:17	20°♍47'31	1°45'45
min. Earth dist.	-450 Mar 18 j 09:29	20°♍38'10	4.41414 AU
direct	-450 May 18 j 21:18	15°♍45'47	
	-450 Sep 06 j 04:29	0°♎	
evening set	-450 Sep 22 j 10:49	3°♎30'37	
max. Earth dist.	-450 Oct 03 j 06:25	5°♎53'38	6.38380 AU
conjunction	-450 Oct 05 j 03:37	6°♎18'39	1°08'24
minimum elong	-450 Oct 05 j 03:38	6°♎18'39	1°08'24
morning rise	-450 Oct 17 j 17:58	9°♎05'41	
retrograde	-449 Feb 16 j 07:16	26°♎21'38	
opposition	-449 Apr 18 j 04:38	21°♎29'56	1°26'33
min. Earth dist.	-449 Apr 19 j 14:30	21°♎19'09	4.34118 AU
direct	-449 Jun 19 j 13:50	16°♎30'28	
	-449 Oct 02 j 19:30	0°♏	
evening set	-449 Oct 23 j 11:07	4°♏32'23	
max. Earth dist.	-449 Nov 03 j 04:08	6°♏57'34	6.28590 AU
conjunction	-449 Nov 05 j 01:46	7°♏23'27	0°45'16
minimum elong	-449 Nov 05 j 01:48	7°♏23'28	0°45'16
morning rise	-449 Nov 17 j 15:35	10°♏14'17	
	-449 Dec 09 j 04:57	15°♏	
retrograde	-448 Mar 20 j 21:35	28°♏16'37	
opposition	-448 May 20 j 20:06	23°♏23'40	0°40'50
min. Earth dist.	-448 May 22 j 01:26	23°♏14'17	4.22362 AU
direct	-448 Jul 21 j 07:19	18°♏26'50	
	-448 Oct 23 j 06:59	0°♐	
evening set	-448 Nov 23 j 11:46	6°♐56'47	
max. Earth dist.	-448 Dec 04 j 21:05	9°♐35'38	6.15899 AU
conjunction	-448 Dec 06 j 04:10	9°♐53'46	0°07'28
minimum elong	-448 Dec 06 j 04:09	9°♐53'46	0°07'28
behind sun begin	-448 Dec 05 j 20:51	9°♐49'31	
behind sun end	-448 Dec 06 j 11:28	9°♐58'00	
morning rise	-448 Dec 18 j 21:01	12°♐51'17	
desc. node	-447 Feb 13 j 17:47	24°♐53'59	
	-447 Mar 21 j 00:56	0°♑	
retrograde	-447 Apr 25 j 12:53	1°♑55'15	
	-447 May 31 j 06:22	30°℞♐	
opposition	-447 Jun 25 j 08:23	26°♐59'35	-0°21'00
min. Earth dist.	-447 Jun 25 j 22:01	26°♐55'11	4.09630 AU
direct	-447 Aug 24 j 10:18	22°♐05'14	
	-447 Nov 06 j 13:06	0°♑	
evening set	-447 Dec 27 j 06:09	11°♑07'14	
conjunction	-446 Jan 09 j 02:50	14°♑11'04	-0°34'26
minimum elong	-446 Jan 09 j 02:47	14°♑11'03	0°34'27
max. Earth dist.	-446 Jan 08 j 20:34	14°♑07'20	6.04287 AU
morning rise	-446 Jan 22 j 01:46	17°♑16'15	
	-446 Mar 21 j 22:21	0°♒	
retrograde	-446 Jun 01 j 22:24	7°♒18'53	
opposition	-446 Aug 01 j 08:16	2°♒19'23	-1°18'34
min. Earth dist.	-446 Aug 01 j 01:07	2°♒21'45	4.00263 AU
	-446 Aug 19 j 16:39	30°℞♑	
direct	-446 Sep 29 j 02:56	27°♑26'01	
	-446 Nov 07 j 20:07	0°♒	
	-445 Jan 24 j 02:00	15°♒	
evening set	-445 Jan 31 j 23:16	16°♒52'39	
conjunction	-445 Feb 14 j 02:51	20°♒02'15	-1°04'55
minimum elong	-445 Feb 14 j 02:49	20°♒02'14	1°04'54
max. Earth dist.	-445 Feb 15 j 04:03	20°♒17'25	5.97996 AU
morning rise	-445 Feb 27 j 09:24	23°♒13'33	
	-445 Mar 28 j 14:50	0°♓	
retrograde	-445 Jul 09 j 18:50	13°♓45'17	
opposition	-445 Sep 07 j 17:10	8°♓42'04	-1°47'17
min. Earth dist.	-445 Sep 06 j 16:36	8°♓50'21	3.97896 AU
direct	-445 Nov 04 j 16:50	3°♓47'42	
evening set	-444 Mar 09 j 01:24	23°♓19'23	
conjunction	-444 Mar 22 j 12:40	26°♓31'44	-1°10'41
minimum elong	-444 Mar 22 j 12:42	26°♓31'45	1°10'40
max. Earth dist.	-444 Mar 24 j 11:06	26°♓59'23	5.99650 AU
morning rise	-444 Apr 05 j 03:08	29°♓45'34	
	-444 Apr 06 j 03:36	0°♈	
retrograde	-444 Aug 14 j 11:33	19°♈59'45	
min. Earth dist.	-444 Oct 11 j 17:57	15°♈05'57	4.03478 AU
opposition	-444 Oct 13 j 03:11	14°♈54'37	-1°34'01
direct	-444 Dec 10 j 04:52	9°♈57'32	
evening set	-443 Apr 15 j 06:40	29°♈11'36	
	-443 Apr 18 j 18:23	0°♉	
conjunction	-443 Apr 29 j 00:04	2°♉22'36	-0°49'31
minimum elong	-443 Apr 29 j 00:07	2°♉22'38	0°49'31
max. Earth dist.	-443 May 01 j 03:02	2°♉52'13	6.08628 AU
morning rise	-443 May 12 j 19:02	5°♉34'12	
	-443 Jun 25 j 01:59	15°♉	

Attention, astronomical year style is used: The year -443 in astronomical counting style is the year 444 BCE in historical counting style.

retrograde	-443 Sep 18 j 05:39	24°♉53'36		
opposition	-443 Nov 16 j 17:36	19°♉49'22	-0°46'53	
min. Earth dist.	-443 Nov 15 j 13:20	19°♉58'59	4.14815 AU	
	-442 Jan 04 j 09:08	15°℞♉		
direct	-442 Jan 14 j 17:40	14°♉49'14		
	-442 Jan 25 j 02:38	15°♉		
	-442 May 05 j 11:19	0°♊		
evening set	-442 May 21 j 10:31	3°♊32'00		
conjunction	-442 Jun 04 j 04:46	6°♊37'46	-0°11'35	
minimum elong	-442 Jun 04 j 04:46	6°♊37'46	0°11'35	
behind sun begin	-442 Jun 03 j 22:56	6°♊34'30		
behind sun end	-442 Jun 04 j 10:37	6°♊41'03		
max. Earth dist.	-442 Jun 05 j 17:38	6°♊58'32	6.21424 AU	
morning rise	-442 Jun 17 j 22:31	9°♊43'02		
asc. node	-442 Sep 23 j 12:17	26°♊45'45		
retrograde	-442 Oct 20 j 17:56	27°♊57'02		
opposition	-442 Dec 19 j 09:53	22°♊55'55	0°13'07	
min. Earth dist.	-442 Dec 18 j 17:35	23°♊01'24	4.27798 AU	
direct	-441 Feb 17 j 16:09	17°♊53'34		
	-441 May 27 j 05:29	0°♋		
evening set	-441 Jun 24 j 20:43	6°♋04'30		
conjunction	-441 Jul 08 j 09:54	9°♋03'00	0°28'37	
minimum elong	-441 Jul 08 j 09:52	9°♋02'59	0°28'38	
max. Earth dist.	-441 Jul 08 j 20:28	9°♋08'48	6.33610 AU	
morning rise	-441 Jul 21 j 20:59	12°♋00'15		
retrograde	-441 Nov 20 j 19:35	29°♋21'49		
opposition	-440 Jan 19 j 17:15	24°♋24'35	1°06'00	
min. Earth dist.	-440 Jan 19 j 19:01	24°♋24'00	4.38255 AU	
direct	-440 Mar 21 j 07:11	19°♋21'18		
	-440 Jun 21 j 22:44	0°♌		
evening set	-440 Jul 26 j 12:13	7°♌09'19		
conjunction	-440 Aug 08 j 17:22	10°♌01'15	0°59'03	
minimum elong	-440 Aug 08 j 17:20	10°♌01'14	0°59'03	
max. Earth dist.	-440 Aug 08 j 01:41	9°♌52'44	6.41490 AU	
morning rise	-440 Aug 21 j 19:30	12°♌51'40		
	-440 Aug 31 j 19:04	15°♌		
retrograde	-440 Dec 20 j 03:11	29°♌45'15		
opposition	-439 Feb 18 j 10:35	24°♌51'14	1°38'47	
min. Earth dist.	-439 Feb 19 j 04:29	24°♌45'26	4.43183 AU	
direct	-439 Apr 21 j 20:58	19°♌48'16		
	-439 Jul 21 j 17:52	0°♍		
evening set	-439 Aug 26 j 20:36	7°♍27'13		
max. Earth dist.	-439 Sep 07 j 05:51	9°♍55'39	6.42994 AU	
conjunction	-439 Sep 08 j 17:55	10°♍15'19	1°12'38	
minimum elong	-439 Sep 08 j 17:54	10°♍15'19	1°12'37	
morning rise	-439 Sep 21 j 12:13	13°♍02'03		
retrograde	-438 Jan 19 j 19:24	29°♍55'06		
opposition	-438 Mar 21 j 11:11	25°♍03'04	1°44'42	
min. Earth dist.	-438 Mar 22 j 17:52	24°♍53'15	4.41278 AU	
direct	-438 May 23 j 04:55	20°♍01'34		
	-438 Aug 20 j 10:28	0°♎		
evening set	-438 Sep 26 j 15:05	7°♎46'17		
max. Earth dist.	-438 Oct 07 j 07:08	10°♎07'41	6.37732 AU	
conjunction	-438 Oct 09 j 07:11	10°♎34'19	1°06'18	
minimum elong	-438 Oct 09 j 07:13	10°♎34'20	1°06'17	
morning rise	-438 Oct 21 j 21:19	13°♎21'29		
	-437 Jan 30 j 14:57	0°♏		
retrograde	-437 Feb 20 j 17:31	0°♏41'15		
	-437 Mar 13 j 19:31	30°℞♎		
opposition	-437 Apr 22 j 14:51	25°♎49'25	1°21'42	
min. Earth dist.	-437 Apr 24 j 01:39	25°♎38'20	4.32969 AU	
direct	-437 Jun 23 j 22:44	20°♎50'10		
	-437 Sep 15 j 16:30	0°♏		
evening set	-437 Oct 27 j 16:22	8°♏54'42		
max. Earth dist.	-437 Nov 07 j 10:39	11°♏21'05	6.27034 AU	
conjunction	-437 Nov 09 j 07:13	11°♏46'26	0°40'50	
minimum elong	-437 Nov 09 j 07:16	11°♏46'28	0°40'49	
morning rise	-437 Nov 21 j 21:07	14°♏37'59		
	-437 Nov 23 j 12:04	15°♏		
	-436 Feb 11 j 04:22	0°♐		
retrograde	-436 Mar 25 j 12:58	2°♐48'02		
	-436 May 08 j 14:48	30°℞♏		
opposition	-436 May 25 j 11:57	27°♏54'49	0°33'05	
min. Earth dist.	-436 May 26 j 16:15	27°♏45'46	4.20482 AU	
direct	-436 Jul 25 j 18:26	22°♏58'20		
	-436 Oct 04 j 10:57	0°♐		
evening set	-436 Nov 27 j 22:20	11°♐33'21		
max. Earth dist.	-436 Dec 09 j 08:58	14°♐13'45	6.13852 AU	
conjunction	-436 Dec 10 j 15:03	14°♐31'22	0°01'45	
minimum elong	-436 Dec 10 j 15:03	14°♐31'22	0°01'45	
behind sun begin	-436 Dec 10 j 07:02	14°♐26'42		
behind sun end	-436 Dec 10 j 23:04	14°♐36'03		
morning rise	-436 Dec 23 j 08:45	17°♐30'06		
desc. node	-436 Dec 26 j 14:45	18°♐15'25		
	-435 Feb 20 j 10:29	0°♑		
retrograde	-435 Apr 30 j 13:24	6°♑44'17		
opposition	-435 Jun 30 j 07:04	1°♑48'10	-0°29'35	
min. Earth dist.	-435 Jun 30 j 18:43	1°♑44'23	4.07570 AU	
	-435 Jul 14 j 12:21	30°℞♐		
direct	-435 Aug 29 j 04:29	26°♐53'58		
	-435 Oct 12 j 16:43	0°♑		
evening set	-434 Jan 01 j 00:37	16°♑02'17		
conjunction	-434 Jan 13 j 22:23	19°♑07'23	-0°39'35	
minimum elong	-434 Jan 13 j 22:21	19°♑07'22	0°39'36	
max. Earth dist.	-434 Jan 13 j 20:46	19°♑06'25	6.02418 AU	
morning rise	-434 Jan 26 j 22:18	22°♑13'52		
	-434 Mar 01 j 20:17	0°♒		
retrograde	-434 Jun 07 j 05:49	12°♒25'29		
opposition	-434 Aug 06 j 12:21	7°♒25'30	-1°24'41	
min. Earth dist.	-434 Aug 06 j 02:57	7°♒28'37	3.98799 AU	
direct	-434 Oct 04 j 02:13	2°♒32'11		
	-433 Jan 06 j 16:16	15°♒		
evening set	-433 Feb 06 j 02:03	22°♒03'39		
conjunction	-433 Feb 19 j 06:42	25°♒14'13	-1°07'18	
minimum elong	-433 Feb 19 j 06:40	25°♒14'12	1°07'19	
max. Earth dist.	-433 Feb 20 j 10:29	25°♒30'58	5.97057 AU	
morning rise	-433 Mar 04 j 14:43	28°♒26'33		
	-433 Mar 11 j 03:42	0°♓		
retrograde	-433 Jul 15 j 01:02	19°♓01'31		
opposition	-433 Sep 12 j 22:28	13°♓57'53	-1°47'55	
min. Earth dist.	-433 Sep 11 j 18:49	14°♓07'14	3.97611 AU	
direct	-433 Nov 09 j 19:47	9°♓03'13		
evening set	-432 Mar 14 j 08:46	28°♓35'58		
	-432 Mar 20 j 06:33	0°♈		
conjunction	-432 Mar 27 j 21:18	1°♈48'41	-1°09'06	
minimum elong	-432 Mar 27 j 21:20	1°♈48'42	1°09'05	
max. Earth dist.	-432 Mar 29 j 22:55	2°♈18'12	6.00045 AU	
morning rise	-432 Apr 10 j 12:39	5°♈02'45		
retrograde	-432 Aug 19 j 15:33	25°♈12'39		
min. Earth dist.	-432 Oct 16 j 19:57	20°♈18'41	4.04483 AU	
opposition	-432 Oct 18 j 05:00	20°♈07'24	-1°28'50	
direct	-432 Dec 15 j 09:27	15°♈09'52		
	-431 Apr 01 j 08:51	0°♉		
evening set	-431 Apr 20 j 13:18	4°♉20'55		

Attention, astronomical year style is used: The year -431 in astronomical counting style is the year 432 BCE in historical counting style.

conjunction	-431 May 04 j 07:14	7°♉31'30	-0°44'43
minimum elong	-431 May 04 j 07:17	7°♉31'31	0°44'42
max. Earth dist.	-431 May 06 j 10:55	8°♉01'23	6.10141 AU
morning rise	-431 May 18 j 02:27	10°♉42'29	
	-431 Jun 06 j 03:34	15°♉	
retrograde	-431 Sep 22 j 23:44	29°♉52'44	
min. Earth dist.	-431 Nov 20 j 08:31	24°♉58'23	4.16643 AU
opposition	-431 Nov 21 j 12:48	24°♉48'46	-0°38'27
direct	-430 Jan 19 j 15:45	19°♉48'14	
	-430 Apr 16 j 22:16	0°♊	
evening set	-430 May 26 j 11:46	8°♊26'00	
conjunction	-430 Jun 09 j 05:30	11°♊30'43	-0°05'38
minimum elong	-430 Jun 09 j 05:29	11°♊30'43	0°05'37
behind sun begin	-430 Jun 08 j 21:30	11°♊26'15	
behind sun end	-430 Jun 09 j 13:29	11°♊35'11	
max. Earth dist.	-430 Jun 10 j 14:34	11°♊49'17	6.23385 AU
morning rise	-430 Jun 22 j 22:37	14°♊34'50	
asc. node	-430 Aug 01 j 22:35	23°♊02'36	
	-430 Sep 13 j 18:07	0°♋	
retrograde	-430 Oct 25 j 06:59	2°♋39'41	
	-430 Dec 05 j 16:28	30°℞♊	
opposition	-430 Dec 23 j 23:09	27°♊39'03	0°21'32
min. Earth dist.	-430 Dec 23 j 09:54	27°♊43'29	4.29678 AU
direct	-429 Feb 22 j 11:14	22°♊36'27	
	-429 May 07 j 11:51	0°♋	
evening set	-429 Jun 29 j 14:46	10°♋42'44	
conjunction	-429 Jul 13 j 03:00	13°♋40'07	0°33'47
minimum elong	-429 Jul 13 j 02:58	13°♋40'06	0°33'47
max. Earth dist.	-429 Jul 13 j 10:51	13°♋44'25	6.35235 AU
morning rise	-429 Jul 26 j 12:44	16°♋36'10	
	-429 Oct 05 j 04:09	0°♌	
retrograde	-429 Nov 25 j 01:55	3°♌51'32	
	-428 Jan 15 j 18:24	30°℞♋	
opposition	-428 Jan 24 j 02:23	28°♋54'47	1°12'06
min. Earth dist.	-428 Jan 24 j 05:46	28°♋53'41	4.39520 AU
direct	-428 Mar 25 j 19:16	23°♋51'29	
	-428 Jun 01 j 14:06	0°♌	
evening set	-428 Jul 31 j 00:35	11°♌36'46	
max. Earth dist.	-428 Aug 12 j 08:53	14°♌17'15	6.42284 AU
conjunction	-428 Aug 13 j 04:26	14°♌27'52	1°02'07
minimum elong	-428 Aug 13 j 04:23	14°♌27'51	1°02'07
	-428 Aug 15 j 15:34	15°♌	
morning rise	-428 Aug 26 j 05:19	17°♌17'28	
	-428 Nov 01 j 04:53	0°♍	
retrograde	-428 Dec 24 j 10:50	4°♍08'48	
	-427 Feb 16 j 23:36	30°℞♌	
opposition	-427 Feb 22 j 18:58	29°♌15'12	1°41'19
min. Earth dist.	-427 Feb 23 j 15:53	29°♌08'27	4.43468 AU
direct	-427 Apr 26 j 08:27	24°♌12'23	
	-427 Jul 01 j 07:36	0°♍	
evening set	-427 Aug 31 j 05:20	11°♍50'54	
max. Earth dist.	-427 Sep 11 j 10:17	14°♍17'13	6.42724 AU
conjunction	-427 Sep 13 j 01:44	14°♍38'45	1°12'57
minimum elong	-427 Sep 13 j 01:44	14°♍38'44	1°12'56
morning rise	-427 Sep 25 j 19:17	17°♍25'16	
	-427 Nov 30 j 11:57	0°♎	
retrograde	-426 Jan 24 j 05:03	4°♎20'20	
	-426 Mar 21 j 18:53	30°℞♍	
opposition	-426 Mar 25 j 22:02	29°♍28'23	1°43'09
min. Earth dist.	-426 Mar 27 j 05:41	29°♍18'16	4.40485 AU
direct	-426 May 27 j 15:07	24°♍27'07	
	-426 Jul 30 j 18:17	0°♎	
evening set	-426 Sep 30 j 23:21	12°♎13'52	
max. Earth dist.	-426 Oct 11 j 15:41	14°♎35'50	6.36476 AU
conjunction	-426 Oct 13 j 15:09	15°♎02'14	1°03'45
minimum elong	-426 Oct 13 j 15:11	15°♎02'15	1°03'46
morning rise	-426 Oct 26 j 04:53	17°♎49'48	
	-426 Dec 26 j 14:35	0°♏	
retrograde	-425 Feb 25 j 08:40	5°♏15'29	
opposition	-425 Apr 27 j 06:53	0°♏23'36	1°16'11
min. Earth dist.	-425 Apr 28 j 17:53	0°♏12'28	4.31317 AU
	-425 Apr 30 j 09:06	30°℞♎	
direct	-425 Jun 28 j 12:18	25°♎24'44	
	-425 Aug 24 j 12:38	0°♏	
evening set	-425 Nov 01 j 03:53	13°♏33'25	
	-425 Nov 07 j 12:13	15°♏	
max. Earth dist.	-425 Nov 11 j 21:58	16°♏00'23	6.25119 AU
conjunction	-425 Nov 13 j 18:41	16°♏25'56	0°35'54
minimum elong	-425 Nov 13 j 18:43	16°♏25'57	0°35'53
morning rise	-425 Nov 26 j 09:06	19°♏18'28	
	-424 Jan 16 j 03:58	0°♐	
retrograde	-424 Mar 30 j 12:28	7°♐37'31	
opposition	-424 May 30 j 10:53	2°♐43'57	0°24'37
min. Earth dist.	-424 May 31 j 13:20	2°♐35'28	4.18430 AU
	-424 Jun 22 j 01:40	30°℞♏	
direct	-424 Jul 30 j 13:14	27°♏47'47	
	-424 Sep 06 j 12:20	0°♐	
desc. node	-424 Nov 04 j 12:46	10°♐07'07	
evening set	-424 Dec 02 j 15:43	16°♐28'15	
max. Earth dist.	-424 Dec 14 j 07:38	19°♐12'22	6.11869 AU
conjunction	-424 Dec 15 j 09:12	19°♐27'24	-0°04'27
minimum elong	-424 Dec 15 j 09:11	19°♐27'23	0°04'27
behind sun begin	-424 Dec 15 j 01:18	19°♐22'47	
behind sun end	-424 Dec 15 j 17:03	19°♐32'00	
morning rise	-424 Dec 28 j 03:32	22°♐27'18	
	-423 Jan 30 j 16:07	0°♑	
retrograde	-423 May 05 j 21:26	11°♑51'09	
opposition	-423 Jul 05 j 12:44	6°♑54'35	-0°38'31
min. Earth dist.	-423 Jul 05 j 21:51	6°♑51'37	4.05850 AU
direct	-423 Sep 03 j 05:04	2°♑00'41	
evening set	-422 Jan 06 j 01:33	21°♑13'40	
conjunction	-422 Jan 19 j 00:02	24°♑19'42	-0°44'45
minimum elong	-422 Jan 18 j 23:59	24°♑19'40	0°44'44
max. Earth dist.	-422 Jan 19 j 01:49	24°♑20'46	6.01127 AU
morning rise	-422 Feb 01 j 01:12	27°♑27'15	
	-422 Feb 11 j 19:32	0°♒	
	-422 May 01 j 06:01	15°♒	
retrograde	-422 Jun 12 j 14:43	17°♒45'01	
	-422 Jul 25 j 05:27	15°℞♒	
opposition	-422 Aug 11 j 21:04	12°♒44'25	-1°30'24
min. Earth dist.	-422 Aug 11 j 07:31	12°♒48'56	3.98120 AU
direct	-422 Oct 09 j 06:45	7°♒51'03	
	-422 Dec 16 j 23:07	15°♒	
evening set	-421 Feb 11 j 08:42	27°♒24'02	
	-421 Feb 22 j 04:17	0°♓	
conjunction	-421 Feb 24 j 14:33	0°♓35'06	-1°09'17
minimum elong	-421 Feb 24 j 14:31	0°♓35'05	1°09'17
max. Earth dist.	-421 Feb 25 j 23:44	0°♓55'06	5.97062 AU
morning rise	-421 Mar 09 j 23:31	3°♓47'51	
retrograde	-421 Jul 20 j 09:20	24°♓21'31	
min. Earth dist.	-421 Sep 17 j 00:09	19°♓27'10	3.98314 AU
opposition	-421 Sep 18 j 04:49	19°♓17'27	-1°47'41
direct	-421 Nov 15 j 03:08	14°♓22'25	
	-420 Mar 03 j 01:11	0°♈	
evening set	-420 Mar 19 j 16:28	3°♈52'20	

Attention, astronomical year style is used: The year -420 in astronomical counting style is the year 421 BCE in historical counting style.

conjunction	-420 Apr 02 j 05:56	7°♈04'52	-1°07'02	
minimum elong	-420 Apr 02 j 05:58	7°♈04'53	1°07'02	
max. Earth dist.	-420 Apr 04 j 09:51	7°♈35'36	6.01364 AU	
morning rise	-420 Apr 15 j 22:07	10°♈18'38		
	-420 Aug 10 j 06:46	0°♉		
retrograde	-420 Aug 24 j 14:35	0°♉20'17		
	-420 Sep 07 j 19:41	30°℞♈		
min. Earth dist.	-420 Oct 21 j 18:36	25°♈26'34	4.06268 AU	
opposition	-420 Oct 23 j 04:26	25°♈15'01	-1°23'06	
direct	-420 Dec 20 j 10:29	20°♈17'02		
	-419 Mar 13 j 15:10	0°♉		
evening set	-419 Apr 25 j 16:57	9°♉22'29		
conjunction	-419 May 09 j 11:02	12°♉32'13	-0°39'44	
minimum elong	-419 May 09 j 11:05	12°♉32'14	0°39'43	
max. Earth dist.	-419 May 11 j 11:47	13°♉00'16	6.12219 AU	
	-419 May 20 j 04:23	15°♉		
morning rise	-419 May 23 j 06:21	15°♉42'15		
	-419 Aug 02 j 12:51	0°♊		
retrograde	-419 Sep 27 j 14:48	4°♊41'59		
	-419 Nov 23 j 12:40	30°℞♉		
min. Earth dist.	-419 Nov 25 j 02:39	29°♉47'07	4.18778 AU	
opposition	-419 Nov 26 j 04:30	29°♉38'20	-0°30'05	
direct	-418 Jan 24 j 12:54	24°♉37'24		
	-418 Mar 26 j 07:57	0°♊		
evening set	-418 May 31 j 08:40	13°♊09'26		
asc. node	-418 Jun 11 j 19:36	15°♊42'40		
conjunction	-418 Jun 14 j 02:02	16°♊13'05	0°00'15	
minimum elong	-418 Jun 14 j 02:00	16°♊13'04	0°00'16	
behind sun begin	-418 Jun 13 j 17:43	16°♊08'27		
behind sun end	-418 Jun 14 j 10:17	16°♊17'40		
max. Earth dist.	-418 Jun 15 j 08:45	16°♊30'14	6.25416 AU	
morning rise	-418 Jun 27 j 18:09	19°♊15'55		
	-418 Aug 19 j 03:35	0°♋		
retrograde	-418 Oct 29 j 14:37	7°♋12'01		
opposition	-418 Dec 28 j 08:35	2°♋11'57	0°29'30	
min. Earth dist.	-418 Dec 27 j 21:11	2°♋15'45	4.31438 AU	
	-417 Jan 14 j 10:22	30°℞♊		
direct	-417 Feb 27 j 00:40	27°♊09'12		
	-417 Apr 12 j 02:10	0°♋		
evening set	-417 Jul 04 j 05:20	15°♋11'32		
conjunction	-417 Jul 17 j 16:19	18°♋07'54	0°38'35	
minimum elong	-417 Jul 17 j 16:17	18°♋07'53	0°38'35	
max. Earth dist.	-417 Jul 17 j 18:18	18°♋08'59	6.36582 AU	
morning rise	-417 Jul 31 j 01:00	21°♋02'55		
	-417 Sep 12 j 19:09	0°♌		
retrograde	-417 Nov 29 j 08:36	8°♌13'29		
opposition	-416 Jan 28 j 09:13	3°♌17'16	1°17'38	
min. Earth dist.	-416 Jan 28 j 16:20	3°♌14'56	4.40383 AU	
	-416 Feb 24 j 19:47	30°℞♋		
direct	-416 Mar 30 j 06:36	28°♋13'56		
	-416 May 04 j 01:57	0°♌		
	-416 Jul 30 j 22:30	15°♌		
evening set	-416 Aug 04 j 10:11	15°♌57'49		
conjunction	-416 Aug 17 j 13:05	18°♌48'23	1°04'46	
minimum elong	-416 Aug 17 j 13:03	18°♌48'22	1°04'46	
max. Earth dist.	-416 Aug 16 j 14:34	18°♌36'09	6.42584 AU	
morning rise	-416 Aug 30 j 12:45	21°♌37'24		
	-416 Oct 10 j 12:53	0°♍		
retrograde	-416 Dec 28 j 16:20	8°♍28'22		
opposition	-415 Feb 27 j 02:28	3°♍35'06	1°43'17	
min. Earth dist.	-415 Feb 28 j 00:38	3°♍27'57	4.43221 AU	
	-415 Mar 30 j 04:30	30°℞♌		
direct	-415 Apr 30 j 16:11	28°♌32'29		
	-415 Jun 01 j 10:30	0°♍		
evening set	-415 Sep 04 j 13:14	16°♍12'15		
max. Earth dist.	-415 Sep 15 j 15:26	18°♍37'26	6.41944 AU	
conjunction	-415 Sep 17 j 08:45	19°♍00'03	1°12'51	
minimum elong	-415 Sep 17 j 08:45	19°♍00'03	1°12'51	
morning rise	-415 Sep 30 j 01:35	21°♍46'36		
	-415 Nov 08 j 21:40	0°♎		
retrograde	-414 Jan 28 j 16:29	8°♎45'27		
opposition	-414 Mar 30 j 09:33	3°♎53'42	1°41'03	
min. Earth dist.	-414 Mar 31 j 19:02	3°♎43'01	4.39226 AU	
	-414 May 04 j 12:46	30°℞♍		
direct	-414 Jun 01 j 02:35	28°♍52'47		
	-414 Jun 28 j 16:51	0°♎		
evening set	-414 Oct 05 j 08:26	16°♎42'59		
max. Earth dist.	-414 Oct 15 j 23:14	19°♎04'43	6.34835 AU	
conjunction	-414 Oct 17 j 23:54	19°♎31'53	1°00'50	
minimum elong	-414 Oct 17 j 23:56	19°♎31'54	1°00'49	
morning rise	-414 Oct 30 j 13:38	22°♎20'06		
	-414 Dec 05 j 15:45	0°♏		
retrograde	-413 Mar 02 j 01:59	9°♏53'06		
opposition	-413 May 02 j 00:45	5°♏01'04	1°10'08	
min. Earth dist.	-413 May 03 j 10:24	4°♏50'21	4.29406 AU	
direct	-413 Jul 03 j 02:17	0°♏02'38		
	-413 Oct 22 j 03:13	15°♏		
evening set	-413 Nov 05 j 16:51	18°♏16'11		
max. Earth dist.	-413 Nov 16 j 14:51	20°♏46'02	6.23116 AU	
conjunction	-413 Nov 18 j 07:59	21°♏09'39	0°30'39	
minimum elong	-413 Nov 18 j 08:01	21°♏09'40	0°30'39	
morning rise	-413 Nov 30 j 22:39	24°♏03'11		
	-413 Dec 27 j 17:27	0°♐		
retrograde	-412 Apr 04 j 15:00	12°♐31'34		
opposition	-412 Jun 04 j 12:07	7°♐37'44	0°15'50	
min. Earth dist.	-412 Jun 05 j 12:51	7°♐29'48	4.16479 AU	
direct	-412 Aug 04 j 10:14	2°♐42'01		
desc. node	-412 Sep 13 j 03:58	5°♐07'24		
evening set	-412 Dec 07 j 10:55	21°♐27'20		
max. Earth dist.	-412 Dec 19 j 05:59	24°♐13'59	6.10143 AU	
conjunction	-412 Dec 20 j 04:49	24°♐27'27	-0°10'33	
minimum elong	-412 Dec 20 j 04:47	24°♐27'26	0°10'35	
behind sun begin	-412 Dec 19 j 22:29	24°♐23'44		
behind sun end	-412 Dec 20 j 11:05	24°♐31'08		
morning rise	-411 Jan 02 j 00:06	27°♐28'29		
	-411 Jan 12 j 20:30	0°♑		
retrograde	-411 May 11 j 04:00	17°♑00'53		
opposition	-411 Jul 10 j 19:15	12°♑03'45	-0°47'14	
min. Earth dist.	-411 Jul 11 j 00:05	12°♑02'10	4.04520 AU	
direct	-411 Sep 08 j 06:01	7°♑10'03		
evening set	-410 Jan 11 j 03:06	26°♑26'15		
conjunction	-410 Jan 24 j 02:34	29°♑33'02	-0°49'34	
minimum elong	-410 Jan 24 j 02:31	29°♑33'00	0°49'34	
max. Earth dist.	-410 Jan 24 j 10:21	29°♑37'43	6.00305 AU	
	-410 Jan 25 j 23:24	0°♒		
morning rise	-410 Feb 06 j 04:33	2°♒41'21		
	-410 Apr 03 j 06:12	15°♒		
retrograde	-410 Jun 18 j 00:33	23°♒03'08		
opposition	-410 Aug 17 j 04:51	18°♒01'58	-1°35'20	
min. Earth dist.	-410 Aug 16 j 13:23	18°♒07'08	3.97903 AU	
	-410 Sep 10 j 19:24	15°℞♒		
direct	-410 Oct 14 j 13:07	13°♒08'30		
	-410 Nov 16 j 22:57	15°♒		
	-409 Feb 05 j 06:02	0°♓		
evening set	-409 Feb 16 j 14:20	2°♓41'27		

Attention, astronomical year style is used: The year -409 in astronomical counting style is the year 410 BCE in historical counting style.

conjunction	-409 Mar 01 j 21:11	5°♓52'48	-1°10'42
minimum elong	-409 Mar 01 j 21:10	5°♓52'47	1°10'42
max. Earth dist.	-409 Mar 03 j 09:54	6°♓14'52	5.97434 AU
morning rise	-409 Mar 15 j 07:17	9°♓05'51	
retrograde	-409 Jul 25 j 13:57	29°♓36'38	
min. Earth dist.	-409 Sep 22 j 02:02	24°♓42'41	3.99261 AU
opposition	-409 Sep 23 j 08:43	24°♓32'17	-1°46'35
direct	-409 Nov 20 j 06:10	19°♓36'55	
	-408 Feb 13 j 12:29	0°♈	
evening set	-408 Mar 24 j 22:04	9°♈03'33	
conjunction	-408 Apr 07 j 12:16	12°♈15'47	-1°04'29
minimum elong	-408 Apr 07 j 12:19	12°♈15'49	1°04'29
max. Earth dist.	-408 Apr 09 j 15:35	12°♈46'04	6.02774 AU
morning rise	-408 Apr 21 j 05:11	15°♈29'12	
	-408 Jun 30 j 05:54	0°♉	
retrograde	-408 Aug 29 j 11:05	5°♉22'45	
min. Earth dist.	-408 Oct 26 j 16:38	0°♉28'45	4.07978 AU
opposition	-408 Oct 28 j 01:27	0°♉17'32	-1°16'52
	-408 Oct 30 j 04:50	30°℞♈	
direct	-408 Dec 25 j 11:07	25°♈19'05	
	-407 Feb 18 j 18:00	0°♉	
evening set	-407 Apr 30 j 18:35	14°♉19'39	
	-407 May 03 j 17:20	15°♉	
conjunction	-407 May 14 j 13:03	17°♉28'40	-0°34'33
minimum elong	-407 May 14 j 13:05	17°♉28'41	0°34'33
max. Earth dist.	-407 May 16 j 13:02	17°♉56'10	6.14103 AU
morning rise	-407 May 28 j 08:06	20°♉37'47	
	-407 Jul 11 j 00:02	0°♊	
retrograde	-407 Oct 02 j 04:43	9°♊28'00	
opposition	-407 Nov 30 j 18:29	4°♊24'49	-0°21'39
min. Earth dist.	-407 Nov 29 j 18:18	4°♊33'00	4.20650 AU
	-406 Jan 10 j 01:36	30°℞♉	
direct	-406 Jan 29 j 07:03	29°♉23'35	
	-406 Feb 17 j 17:29	0°♊	
asc. node	-406 Apr 21 j 18:08	8°♊32'55	
evening set	-406 Jun 05 j 04:36	17°♊51'02	
conjunction	-406 Jun 18 j 21:10	20°♊53'39	0°06'02
minimum elong	-406 Jun 18 j 21:10	20°♊53'39	0°06'03
behind sun begin	-406 Jun 18 j 13:17	20°♊49'17	
behind sun end	-406 Jun 19 j 05:03	20°♊58'02	
max. Earth dist.	-406 Jun 19 j 22:37	21°♊07'49	6.27124 AU
morning rise	-406 Jul 02 j 12:41	23°♊55'28	
	-406 Jul 30 j 21:14	0°♋	
retrograde	-406 Nov 02 j 23:23	11°♋44'12	
opposition	-405 Jan 01 j 17:55	6°♋44'39	0°37'15
min. Earth dist.	-405 Jan 01 j 09:35	6°♋47'26	4.32860 AU
direct	-405 Mar 03 j 14:53	1°♋41'40	
evening set	-405 Jul 08 j 19:24	19°♋41'06	
conjunction	-405 Jul 22 j 05:29	22°♋36'37	0°43'09
minimum elong	-405 Jul 22 j 05:27	22°♋36'36	0°43'10
max. Earth dist.	-405 Jul 22 j 04:52	22°♋36'17	6.37614 AU
morning rise	-405 Aug 04 j 12:46	25°♋30'42	
	-405 Aug 25 j 15:33	0°♌	
retrograde	-405 Dec 03 j 14:20	12°♌37'29	
opposition	-404 Feb 01 j 16:38	7°♌41'46	1°22'46
min. Earth dist.	-404 Feb 02 j 01:29	7°♌38'52	4.40980 AU
direct	-404 Apr 03 j 16:16	2°♌38'28	
	-404 Jul 14 j 07:33	15°♌	
evening set	-404 Aug 08 j 20:37	20°♌21'35	
conjunction	-404 Aug 21 j 22:14	23°♌11'36	1°07'04
minimum elong	-404 Aug 21 j 22:12	23°♌11'35	1°07'03
max. Earth dist.	-404 Aug 20 j 19:21	22°♌56'59	6.42688 AU
morning rise	-404 Sep 03 j 20:57	26°♌00'10	
	-404 Sep 22 j 16:47	0°♍	
retrograde	-403 Jan 02 j 01:15	12°♍51'16	
opposition	-403 Mar 03 j 11:19	7°♍58'19	1°44'43
min. Earth dist.	-403 Mar 04 j 12:19	7°♍50'16	4.42851 AU
direct	-403 May 05 j 03:13	2°♍55'51	
evening set	-403 Sep 08 j 21:57	20°♍36'55	
max. Earth dist.	-403 Sep 19 j 22:27	23°♍01'29	6.41125 AU
conjunction	-403 Sep 21 j 16:53	23°♍24'46	1°12'21
minimum elong	-403 Sep 21 j 16:53	23°♍24'46	1°12'21
morning rise	-403 Oct 04 j 09:00	26°♍11'23	
	-403 Oct 22 j 02:55	0°♎	
retrograde	-402 Feb 02 j 03:30	13°♎14'02	
opposition	-402 Apr 03 j 22:28	8°♎22'20	1°38'20
min. Earth dist.	-402 Apr 05 j 07:26	8°♎11'49	4.38034 AU
direct	-402 Jun 05 j 13:05	3°♎21'46	
evening set	-402 Oct 09 j 18:15	21°♎14'49	
max. Earth dist.	-402 Oct 20 j 10:06	23°♎37'40	6.33385 AU
conjunction	-402 Oct 22 j 09:25	24°♎04'11	0°57'32
minimum elong	-402 Oct 22 j 09:28	24°♎04'12	0°57'31
morning rise	-402 Nov 03 j 23:01	26°♎52'57	
	-402 Nov 18 j 02:40	0°♏	
retrograde	-401 Mar 06 j 21:24	14°♏32'34	
opposition	-401 May 06 j 19:43	9°♏40'24	1°03'36
min. Earth dist.	-401 May 08 j 05:08	9°♏29'46	4.27785 AU
direct	-401 Jul 07 j 19:05	4°♏42'23	
	-401 Oct 04 j 12:06	15°♏	
evening set	-401 Nov 10 j 06:11	22°♏59'31	
max. Earth dist.	-401 Nov 21 j 05:48	25°♏30'53	6.21478 AU
conjunction	-401 Nov 22 j 21:28	25°♏53'44	0°25'15
minimum elong	-401 Nov 22 j 21:29	25°♏53'45	0°25'16
morning rise	-401 Dec 05 j 12:39	28°♏48'09	
	-401 Dec 10 j 18:30	0°♐	
retrograde	-400 Apr 09 j 14:56	17°♐24'24	
opposition	-400 Jun 09 j 12:42	12°♐30'08	0°07'01
min. Earth dist.	-400 Jun 10 j 09:52	12°♐23'19	4.14950 AU
desc. node	-400 Jul 23 j 20:14	8°♐00'27	
direct	-400 Aug 09 j 05:29	7°♐34'45	
evening set	-400 Dec 12 j 05:16	26°♐23'27	
conjunction	-400 Dec 24 j 23:47	29°♐24'20	-0°16'30
minimum elong	-400 Dec 24 j 23:45	29°♐24'20	0°16'30
max. Earth dist.	-400 Dec 24 j 06:02	29°♐13'51	6.08870 AU
	-400 Dec 27 j 12:00	0°♑	
morning rise	-399 Jan 06 j 19:42	2°♑26'14	
retrograde	-399 May 16 j 10:20	22°♑05'21	
opposition	-399 Jul 15 j 23:50	17°♑07'39	-0°55'22
min. Earth dist.	-399 Jul 16 j 02:36	17°♑06'45	4.03615 AU
direct	-399 Sep 13 j 07:40	12°♑14'07	
	-398 Jan 09 j 15:42	0°♒	