

Planetary Phenomena of Neptune from -1400 through -898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 1

Attention, astronomical year style is used: The year -1400 in astronomical counting style is the year 1401 BCE in historical counting style.

direct	-1400 Jan 20 j 01:19	27° Υ 27'41		conjunction	-1394 May 18 j 11:11	13° \mathcal{B} 25'28	-1°34'03
evening set	-1400 Apr 17 j 15:33	29° Υ 22'28		minimum elong	-1394 May 18 j 11:12	13° \mathcal{B} 25'28	1°34'02
				max. Earth dist.	-1394 May 18 j 14:10	13° \mathcal{B} 25'45	30.89664 AU
conjunction	-1400 May 03 j 21:20	29° Υ 58'29	-1°48'57	morning rise	-1394 Jun 03 j 18:54	14° \mathcal{B} 01'36	
minimum elong	-1400 May 03 j 21:20	29° Υ 58'29	1°48'56		-1394 Jul 02 j 23:21	15° \mathcal{B}	
max. Earth dist.	-1400 May 04 j 05:02	29° Υ 59'12	30.85255 AU	retrograde	-1394 Sep 01 j 09:09	15° \mathcal{B} 57'40	
	-1400 May 04 j 13:34	0° \mathcal{B}			-1394 Nov 02 j 10:26	15° $\mathcal{R}\mathcal{B}$	
morning rise	-1400 May 20 j 04:13	0° \mathcal{B} 34'38		opposition	-1394 Nov 18 j 07:44	14° \mathcal{B} 33'22	-1°38'58
retrograde	-1400 Aug 18 j 07:20	2° \mathcal{B} 31'40		min. Earth dist.	-1394 Nov 18 j 04:37	14° \mathcal{B} 33'35	28.90279 AU
opposition	-1400 Nov 04 j 16:58	1° \mathcal{B} 06'56	-1°55'23	direct	-1393 Feb 04 j 13:14	13° \mathcal{B} 08'40	
min. Earth dist.	-1400 Nov 04 j 10:41	1° \mathcal{B} 07'23	28.85562 AU		-1393 May 02 j 23:43	15° \mathcal{B}	
	-1400 Dec 19 j 23:16	30° $\mathcal{R}\Upsilon$		evening set	-1393 May 04 j 17:58	15° \mathcal{B} 03'48	
direct	-1399 Jan 21 j 12:40	29° Υ 42'25					
	-1399 Feb 22 j 20:55	0° \mathcal{B}		conjunction	-1393 May 21 j 01:40	15° \mathcal{B} 39'55	-1°31'02
evening set	-1399 Apr 20 j 05:24	1° \mathcal{B} 37'14		minimum elong	-1393 May 21 j 01:40	15° \mathcal{B} 39'55	1°31'01
				max. Earth dist.	-1393 May 21 j 04:18	15° \mathcal{B} 40'09	30.90734 AU
conjunction	-1399 May 06 j 11:37	2° \mathcal{B} 13'16	-1°46'52	morning rise	-1393 Jun 06 j 09:16	16° \mathcal{B} 16'02	
minimum elong	-1399 May 06 j 11:37	2° \mathcal{B} 13'16	1°46'50	retrograde	-1393 Sep 03 j 19:20	18° \mathcal{B} 11'58	
max. Earth dist.	-1399 May 06 j 19:05	2° \mathcal{B} 13'57	30.85674 AU	opposition	-1393 Nov 20 j 18:12	16° \mathcal{B} 47'46	-1°35'40
morning rise	-1399 May 22 j 18:38	2° \mathcal{B} 49'24		min. Earth dist.	-1393 Nov 20 j 16:58	16° \mathcal{B} 47'52	28.91335 AU
retrograde	-1399 Aug 20 j 20:46	4° \mathcal{B} 46'15		direct	-1392 Feb 07 j 00:33	15° \mathcal{B} 23'04	
opposition	-1399 Nov 07 j 03:28	3° \mathcal{B} 21'34	-1°53'04	evening set	-1392 May 06 j 08:13	17° \mathcal{B} 18'17	
min. Earth dist.	-1399 Nov 06 j 21:02	3° \mathcal{B} 22'01	28.86017 AU				
direct	-1398 Jan 24 j 02:59	1° \mathcal{B} 56'59		conjunction	-1392 May 22 j 16:04	17° \mathcal{B} 54'23	-1°27'53
evening set	-1398 Apr 22 j 19:34	3° \mathcal{B} 51'49		minimum elong	-1392 May 22 j 16:04	17° \mathcal{B} 54'23	1°27'52
				max. Earth dist.	-1392 May 22 j 17:02	17° \mathcal{B} 54'28	30.91778 AU
conjunction	-1398 May 09 j 01:57	4° \mathcal{B} 27'52	-1°44'36	morning rise	-1392 Jun 07 j 23:47	18° \mathcal{B} 30'30	
minimum elong	-1398 May 09 j 01:57	4° \mathcal{B} 27'52	1°44'35	retrograde	-1392 Sep 05 j 08:16	20° \mathcal{B} 26'17	
max. Earth dist.	-1398 May 09 j 07:53	4° \mathcal{B} 28'25	30.86189 AU	opposition	-1392 Nov 22 j 04:39	19° \mathcal{B} 02'11	-1°32'14
morning rise	-1398 May 25 j 09:14	5° \mathcal{B} 04'00		min. Earth dist.	-1392 Nov 22 j 03:27	19° \mathcal{B} 02'16	28.92336 AU
retrograde	-1398 Aug 23 j 09:15	7° \mathcal{B} 00'42		direct	-1391 Feb 08 j 12:39	17° \mathcal{B} 37'28	
opposition	-1398 Nov 09 j 13:57	5° \mathcal{B} 36'02	-1°50'35	evening set	-1391 May 08 j 22:21	19° \mathcal{B} 32'43	
min. Earth dist.	-1398 Nov 09 j 08:46	5° \mathcal{B} 36'24	28.86604 AU				
direct	-1397 Jan 26 j 14:42	4° \mathcal{B} 11'23		conjunction	-1391 May 25 j 06:22	20° \mathcal{B} 08'50	-1°24'37
evening set	-1397 Apr 25 j 09:35	6° \mathcal{B} 06'17		minimum elong	-1391 May 25 j 06:22	20° \mathcal{B} 08'50	1°24'36
				max. Earth dist.	-1391 May 25 j 06:08	20° \mathcal{B} 08'49	30.92731 AU
conjunction	-1397 May 11 j 16:25	6° \mathcal{B} 42'20	-1°42'12	morning rise	-1391 Jun 10 j 14:04	20° \mathcal{B} 44'57	
minimum elong	-1397 May 11 j 16:25	6° \mathcal{B} 42'20	1°42'11	retrograde	-1391 Sep 07 j 19:08	22° \mathcal{B} 40'34	
max. Earth dist.	-1397 May 11 j 22:36	6° \mathcal{B} 42'55	30.86849 AU	opposition	-1391 Nov 24 j 15:14	21° \mathcal{B} 16'33	-1°28'39
morning rise	-1397 May 27 j 23:40	7° \mathcal{B} 18'28		min. Earth dist.	-1391 Nov 24 j 16:08	21° \mathcal{B} 16'29	28.93241 AU
retrograde	-1397 Aug 25 j 20:50	9° \mathcal{B} 14'59		direct	-1390 Feb 11 j 00:03	19° \mathcal{B} 51'47	
opposition	-1397 Nov 12 j 00:27	7° \mathcal{B} 50'24	-1°47'55	evening set	-1390 May 11 j 12:35	21° \mathcal{B} 47'06	
min. Earth dist.	-1397 Nov 11 j 19:27	7° \mathcal{B} 50'45	28.87326 AU				
direct	-1396 Jan 29 j 03:40	6° \mathcal{B} 25'43		conjunction	-1390 May 27 j 20:50	22° \mathcal{B} 23'13	-1°21'12
evening set	-1396 Apr 26 j 23:38	8° \mathcal{B} 20'39		minimum elong	-1390 May 27 j 20:50	22° \mathcal{B} 23'13	1°21'11
				max. Earth dist.	-1390 May 27 j 19:39	22° \mathcal{B} 23'06	30.93599 AU
conjunction	-1396 May 13 j 06:31	8° \mathcal{B} 56'43	-1°39'38	morning rise	-1390 Jun 13 j 04:30	22° \mathcal{B} 59'19	
minimum elong	-1396 May 13 j 06:32	8° \mathcal{B} 56'43	1°39'37	retrograde	-1390 Sep 10 j 07:38	24° \mathcal{B} 54'45	
max. Earth dist.	-1396 May 13 j 10:55	8° \mathcal{B} 57'08	30.87657 AU	opposition	-1390 Nov 27 j 01:32	23° \mathcal{B} 30'48	-1°24'57
morning rise	-1396 May 29 j 14:02	9° \mathcal{B} 32'51		min. Earth dist.	-1390 Nov 27 j 02:43	23° \mathcal{B} 30'43	28.94049 AU
retrograde	-1396 Aug 27 j 10:04	11° \mathcal{B} 29'13		direct	-1389 Feb 13 j 14:23	22° \mathcal{B} 06'00	
opposition	-1396 Nov 13 j 10:56	10° \mathcal{B} 04'42	-1°45'05	evening set	-1389 May 14 j 02:55	24° \mathcal{B} 01'21	
min. Earth dist.	-1396 Nov 13 j 06:28	10° \mathcal{B} 05'01	28.88209 AU				
direct	-1395 Jan 30 j 14:38	8° \mathcal{B} 40'00		conjunction	-1389 May 30 j 11:09	24° \mathcal{B} 37'28	-1°17'41
evening set	-1395 Apr 29 j 13:35	10° \mathcal{B} 35'00		minimum elong	-1389 May 30 j 11:09	24° \mathcal{B} 37'28	1°17'41
				max. Earth dist.	-1389 May 30 j 08:05	24° \mathcal{B} 37'10	30.94374 AU
conjunction	-1395 May 15 j 20:54	11° \mathcal{B} 11'05	-1°36'55	morning rise	-1389 Jun 15 j 18:52	25° \mathcal{B} 13'33	
minimum elong	-1395 May 15 j 20:54	11° \mathcal{B} 11'05	1°36'55	retrograde	-1389 Sep 12 j 19:34	27° \mathcal{B} 08'49	
max. Earth dist.	-1395 May 16 j 01:44	11° \mathcal{B} 11'32	30.88609 AU	opposition	-1389 Nov 29 j 11:59	25° \mathcal{B} 44'54	-1°21'08
morning rise	-1395 Jun 01 j 04:21	11° \mathcal{B} 47'13		min. Earth dist.	-1389 Nov 29 j 14:47	25° \mathcal{B} 44'43	28.94801 AU
retrograde	-1395 Aug 29 j 20:56	13° \mathcal{B} 43'25		direct	-1388 Feb 16 j 02:24	24° \mathcal{B} 20'03	
opposition	-1395 Nov 15 j 21:20	12° \mathcal{B} 19'01	-1°42'06	evening set	-1388 May 15 j 16:48	26° \mathcal{B} 15'26	
min. Earth dist.	-1395 Nov 15 j 18:00	12° \mathcal{B} 19'15	28.89207 AU				
direct	-1394 Feb 02 j 01:55	10° \mathcal{B} 54'19		conjunction	-1388 Jun 01 j 01:17	26° \mathcal{B} 51'32	-1°14'03
evening set	-1394 May 02 j 03:45	12° \mathcal{B} 49'23		minimum elong	-1388 Jun 01 j 01:18	26° \mathcal{B} 51'32	1°14'02

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Attention, astronomical year style is used: The year -1388 in astronomical counting style is the year 1389 BCE in historical counting style.

max. Earth dist.	-1388 May 31 j 22:06	26° 8 51'15	30.95113 AU	min. Earth dist.	-1382 Dec 14 j 19:23	11° II 19'14	29.01425 AU
morning rise	-1388 Jun 17 j 08:50	27° 8 27'36		direct	-1381 Mar 03 j 12:30	9° II 54'45	
retrograde	-1388 Sep 14 j 06:56	29° 8 22'41		evening set	-1381 Jun 01 j 17:54	11° II 50'28	
opposition	-1388 Nov 30 j 22:17	27° 8 58'50	-1°17'11				
min. Earth dist.	-1388 Dec 01 j 01:37	27° 8 58'36	28.95520 AU	conjunction	-1381 Jun 18 j 02:19	12° II 26'32	-0°45'56
direct	-1387 Feb 17 j 15:52	26° 8 33'55		minimum elong	-1381 Jun 18 j 02:19	12° II 26'32	0°45'55
evening set	-1387 May 18 j 06:55	28° 8 29'20		max. Earth dist.	-1381 Jun 17 j 17:14	12° II 25'41	31.02029 AU
				morning rise	-1381 Jul 04 j 08:53	13° II 02'28	
conjunction	-1387 Jun 03 j 15:18	29° 8 05'26	-1°10'19	retrograde	-1381 Sep 30 j 12:16	14° II 56'29	
minimum elong	-1387 Jun 03 j 15:19	29° 8 05'26	1°10'18	opposition	-1381 Dec 16 j 21:39	13° II 33'14	-0°46'48
max. Earth dist.	-1387 Jun 03 j 10:02	29° 8 04'57	30.95847 AU	min. Earth dist.	-1381 Dec 17 j 05:42	13° II 32'40	29.02660 AU
morning rise	-1387 Jun 19 j 22:56	29° 8 41'30		direct	-1380 Mar 05 j 02:03	12° II 08'12	
	-1387 Jun 28 j 15:14	0° II		evening set	-1380 Jun 03 j 07:39	14° II 03'59	
retrograde	-1387 Sep 16 j 19:53	1° II 36'23					
opposition	-1387 Dec 03 j 08:26	0° II 12'35	-1°13'08	conjunction	-1380 Jun 19 j 15:51	14° II 40'03	-0°41'36
min. Earth dist.	-1387 Dec 03 j 12:34	0° II 12'18	28.96275 AU	minimum elong	-1380 Jun 19 j 15:51	14° II 40'03	0°41'34
	-1387 Dec 10 j 18:48	30° 8 8		max. Earth dist.	-1380 Jun 19 j 05:13	14° II 39'04	31.03243 AU
direct	-1386 Feb 20 j 03:41	28° 8 47'37		morning rise	-1380 Jul 05 j 22:12	15° II 15'58	
	-1386 Apr 29 j 21:11	0° II		retrograde	-1380 Oct 01 j 23:49	17° II 09'52	
evening set	-1386 May 20 j 20:47	0° II 43'03		opposition	-1380 Dec 18 j 08:00	15° II 46'42	-0°42'08
				min. Earth dist.	-1380 Dec 18 j 17:33	15° II 46'02	29.03850 AU
conjunction	-1386 Jun 06 j 05:25	1° II 19'10	-1°06'29	direct	-1379 Mar 07 j 13:22	14° II 21'40	
minimum elong	-1386 Jun 06 j 05:26	1° II 19'10	1°06'27	evening set	-1379 Jun 05 j 21:24	16° II 17'30	
max. Earth dist.	-1386 Jun 06 j 00:26	1° II 18'42	30.96627 AU				
morning rise	-1386 Jun 22 j 12:48	1° II 55'12		conjunction	-1379 Jun 22 j 05:36	16° II 53'33	-0°37'12
retrograde	-1386 Sep 19 j 06:02	3° II 49'55		minimum elong	-1379 Jun 22 j 05:36	16° II 53'33	0°37'11
opposition	-1386 Dec 05 j 18:42	2° II 26'11	-1°08'59	max. Earth dist.	-1379 Jun 21 j 18:41	16° II 52'32	31.04385 AU
min. Earth dist.	-1386 Dec 05 j 23:58	2° II 25'48	28.97083 AU	morning rise	-1379 Jul 08 j 11:36	17° II 29'26	
direct	-1385 Feb 22 j 15:57	1° II 01'10		retrograde	-1379 Oct 04 j 11:10	19° II 23'11	
evening set	-1385 May 23 j 10:45	2° II 56'38		opposition	-1379 Dec 20 j 18:12	18° II 00'07	-0°37'24
				min. Earth dist.	-1379 Dec 21 j 04:31	17° II 59'24	29.04928 AU
conjunction	-1385 Jun 08 j 19:14	3° II 32'44	-1°02'33	direct	-1378 Mar 10 j 02:44	16° II 35'04	
minimum elong	-1385 Jun 08 j 19:14	3° II 32'44	1°02'31	evening set	-1378 Jun 08 j 11:20	18° II 30'57	
max. Earth dist.	-1385 Jun 08 j 12:30	3° II 32'07	30.97489 AU				
morning rise	-1385 Jun 25 j 02:37	4° II 08'45		conjunction	-1378 Jun 24 j 19:12	19° II 06'58	-0°32'45
retrograde	-1385 Sep 21 j 17:23	6° II 03'18		minimum elong	-1378 Jun 24 j 19:13	19° II 06'58	0°32'43
opposition	-1385 Dec 08 j 04:50	4° II 39'38	-1°04'44	max. Earth dist.	-1378 Jun 24 j 05:58	19° II 05'45	31.05410 AU
min. Earth dist.	-1385 Dec 08 j 10:00	4° II 39'16	28.98000 AU	morning rise	-1378 Jul 11 j 01:02	19° II 42'49	
direct	-1384 Feb 25 j 03:38	3° II 14'35		retrograde	-1378 Oct 07 j 00:15	21° II 36'26	
evening set	-1384 May 25 j 00:31	5° II 10'06		opposition	-1378 Dec 23 j 04:31	20° II 13'25	-0°32'37
				min. Earth dist.	-1378 Dec 23 j 15:43	20° II 12'38	29.05900 AU
conjunction	-1384 Jun 10 j 09:06	5° II 46'12	-0°58'31	direct	-1377 Mar 12 j 15:39	18° II 48'20	
minimum elong	-1384 Jun 10 j 09:06	5° II 46'12	0°58'29	evening set	-1377 Jun 11 j 00:57	20° II 44'14	
max. Earth dist.	-1384 Jun 10 j 02:32	5° II 45'36	30.98465 AU				
morning rise	-1384 Jun 26 j 16:11	6° II 22'12		conjunction	-1377 Jun 27 j 08:47	21° II 20'14	-0°28'16
retrograde	-1384 Sep 23 j 02:52	8° II 16'36		minimum elong	-1377 Jun 27 j 08:47	21° II 20'14	0°28'15
opposition	-1384 Dec 09 j 15:07	6° II 53'01	-1°00'22	max. Earth dist.	-1377 Jun 26 j 19:35	21° II 19'01	31.06322 AU
min. Earth dist.	-1384 Dec 09 j 21:39	6° II 52'34	28.99040 AU	morning rise	-1377 Jul 13 j 14:06	21° II 56'03	
direct	-1383 Feb 26 j 14:26	5° II 27'58		retrograde	-1377 Oct 09 j 09:48	23° II 49'30	
evening set	-1383 May 27 j 14:12	7° II 23'32		opposition	-1377 Dec 25 j 14:51	22° II 26'32	-0°27'48
				min. Earth dist.	-1377 Dec 26 j 03:28	22° II 25'39	29.06756 AU
conjunction	-1383 Jun 12 j 22:43	7° II 59'37	-0°54'24	direct	-1376 Mar 14 j 04:52	21° II 01'24	
minimum elong	-1383 Jun 12 j 22:44	7° II 59'37	0°54'23	evening set	-1376 Jun 12 j 14:36	22° II 57'19	
max. Earth dist.	-1383 Jun 12 j 14:54	7° II 58'54	30.99580 AU				
morning rise	-1383 Jun 29 j 05:47	8° II 35'36		conjunction	-1376 Jun 28 j 22:03	23° II 33'17	-0°23'44
retrograde	-1383 Sep 25 j 14:58	10° II 29'52		minimum elong	-1376 Jun 28 j 22:03	23° II 33'17	0°23'42
opposition	-1383 Dec 12 j 01:15	9° II 06'24	-0°55'56	max. Earth dist.	-1376 Jun 28 j 06:51	23° II 31'53	31.07148 AU
min. Earth dist.	-1383 Dec 12 j 07:25	9° II 05'57	29.00196 AU	morning rise	-1376 Jul 15 j 03:13	24° II 09'04	
direct	-1382 Mar 01 j 01:31	7° II 41'20		retrograde	-1376 Oct 10 j 21:21	26° II 02'21	
evening set	-1382 May 30 j 04:04	9° II 36'58		opposition	-1376 Dec 27 j 00:58	24° II 39'26	-0°22'57
				min. Earth dist.	-1376 Dec 27 j 13:42	24° II 38'32	29.07554 AU
conjunction	-1382 Jun 15 j 12:32	10° II 13'03	-0°50'12	direct	-1375 Mar 16 j 17:06	23° II 14'14	
minimum elong	-1382 Jun 15 j 12:32	10° II 13'03	0°50'11	evening set	-1375 Jun 15 j 03:55	25° II 10'08	
max. Earth dist.	-1382 Jun 15 j 04:05	10° II 12'16	31.00778 AU				
morning rise	-1382 Jul 01 j 19:20	10° II 49'01		conjunction	-1375 Jul 01 j 11:18	25° II 46'06	-0°19'11
retrograde	-1382 Sep 28 j 00:38	12° II 43'09		minimum elong	-1375 Jul 01 j 11:18	25° II 46'06	0°19'10
opposition	-1382 Dec 14 j 11:27	11° II 19'48	-0°51'24	max. Earth dist.	-1375 Jun 30 j 20:10	25° II 44'42	31.07919 AU

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Attention, astronomical year style is used: The year -1375 in astronomical counting style is the year 1376 BCE in historical counting style.

morning rise	-1375 Jul 17 j 15:59	26° Π 21'50		retrograde	-1370 Oct 24 j 09:28	9° Θ 14'58	
retrograde	-1375 Oct 13 j 06:39	28° Π 14'57		opposition	-1369 Jan 09 j 14:05	7° Θ 52'22	0°06'30
opposition	-1375 Dec 29 j 11:16	26° Π 52'04	-0°18'04	min. Earth dist.	-1369 Jan 10 j 06:06	7° Θ 51'15	29.13155 AU
min. Earth dist.	-1375 Dec 30 j 01:37	26° Π 51'03	29.08312 AU	direct	-1369 Mar 30 j 15:53	6° Θ 27'02	
direct	-1374 Mar 19 j 04:46	25° Π 26'48		evening set	-1369 Jun 29 j 10:41	8° Θ 23'07	
evening set	-1374 Jun 17 j 17:21	27° Π 22'42					
max. Earth dist.	-1374 Jul 03 j 07:51	27° Π 57'07	31.08686 AU	conjunction	-1369 Jul 15 j 15:50	8° Θ 58'53	0°08'28
				minimum elong	-1369 Jul 15 j 15:50	8° Θ 58'53	0°08'29
conjunction	-1374 Jul 04 j 00:21	27° Π 58'38	-0°14'37	behind sun begin	-1369 Jul 15 j 10:07	8° Θ 58'23	
minimum elong	-1374 Jul 04 j 00:21	27° Π 58'38	0°14'35	behind sun end	-1369 Jul 15 j 21:34	8° Θ 59'23	
behind sun begin	-1374 Jul 03 j 21:44	27° Π 58'24		max. Earth dist.	-1369 Jul 14 j 20:48	8° Θ 57'08	31.13754 AU
behind sun end	-1374 Jul 04 j 02:59	27° Π 58'52		morning rise	-1369 Jul 31 j 17:59	9° Θ 34'24	
morning rise	-1374 Jul 20 j 04:46	28° Π 34'21		retrograde	-1369 Oct 26 j 22:09	11° Θ 26'50	
	-1374 Sep 05 j 08:37	0° Θ		opposition	-1368 Jan 12 j 00:19	10° Θ 04'20	0°11'25
retrograde	-1374 Oct 15 j 17:34	0° Θ 27'18		min. Earth dist.	-1368 Jan 12 j 16:40	10° Θ 03'12	29.14387 AU
	-1374 Nov 25 j 18:08	30° κ Π		direct	-1368 Apr 01 j 04:00	8° Θ 39'03	
opposition	-1374 Dec 31 j 21:17	29° Π 04'26	-0°13'11	evening set	-1368 Jun 30 j 23:33	10° Θ 35'12	
min. Earth dist.	-1373 Jan 01 j 11:15	29° Π 03'27	29.09090 AU	max. Earth dist.	-1368 Jul 16 j 09:56	11° Θ 09'13	31.14979 AU
direct	-1373 Mar 21 j 16:42	27° Π 39'07					
evening set	-1373 Jun 20 j 06:36	29° Π 35'02		conjunction	-1368 Jul 17 j 04:27	11° Θ 10'56	0°13'03
	-1373 Jul 01 j 15:25	0° Θ		minimum elong	-1368 Jul 17 j 04:26	11° Θ 10'56	0°13'05
				behind sun begin	-1368 Jul 17 j 00:36	11° Θ 10'36	
conjunction	-1373 Jul 06 j 13:20	0° Θ 10'56	-0°10'02	behind sun end	-1368 Jul 17 j 08:17	11° Θ 11'16	
minimum elong	-1373 Jul 06 j 13:20	0° Θ 10'56	0°10'01	morning rise	-1368 Aug 02 j 05:55	11° Θ 46'24	
behind sun begin	-1373 Jul 06 j 08:04	0° Θ 10'28		retrograde	-1368 Oct 28 j 07:49	13° Θ 38'47	
behind sun end	-1373 Jul 06 j 18:36	0° Θ 11'24		opposition	-1367 Jan 13 j 10:37	12° Θ 16'23	0°16'18
max. Earth dist.	-1373 Jul 05 j 20:30	0° Θ 09'23	31.09486 AU	min. Earth dist.	-1367 Jan 14 j 04:13	12° Θ 15'09	29.15594 AU
morning rise	-1373 Jul 22 j 17:14	0° Θ 46'36		direct	-1367 Apr 03 j 16:36	10° Θ 51'08	
retrograde	-1373 Oct 18 j 02:07	2° Θ 39'25		evening set	-1367 Jul 03 j 12:33	12° Θ 47'20	
opposition	-1372 Jan 03 j 07:36	1° Θ 16'35	-0°08'16				
min. Earth dist.	-1372 Jan 03 j 22:57	1° Θ 15'30	29.09941 AU	conjunction	-1367 Jul 19 j 16:50	13° Θ 23'02	0°17'36
	-1372 Feb 28 j 20:38	30° κ Π		minimum elong	-1367 Jul 19 j 16:50	13° Θ 23'02	0°17'38
direct	-1372 Mar 23 j 03:45	29° Π 51'14		max. Earth dist.	-1367 Jul 18 j 20:33	13° Θ 21'10	31.16156 AU
	-1372 Apr 15 j 09:28	0° Θ		morning rise	-1367 Aug 04 j 17:59	13° Θ 58'28	
evening set	-1372 Jun 21 j 19:34	1° Θ 47'09		retrograde	-1367 Oct 30 j 19:46	15° Θ 50'47	
max. Earth dist.	-1372 Jul 07 j 08:57	2° Θ 21'27	31.10391 AU	opposition	-1366 Jan 15 j 20:57	14° Θ 28'29	0°21'10
				min. Earth dist.	-1366 Jan 16 j 14:29	14° Θ 27'15	29.16730 AU
conjunction	-1372 Jul 08 j 01:59	2° Θ 23'01	-0°05'28	direct	-1366 Apr 06 j 04:45	13° Θ 03'15	
minimum elong	-1372 Jul 08 j 01:58	2° Θ 23'01	0°05'26	evening set	-1366 Jul 06 j 01:27	14° Θ 59'30	
behind sun begin	-1372 Jul 07 j 19:38	2° Θ 22'27		max. Earth dist.	-1366 Jul 21 j 09:13	15° Θ 33'19	31.17225 AU
behind sun end	-1372 Jul 08 j 08:18	2° Θ 23'35					
morning rise	-1372 Jul 24 j 05:28	2° Θ 58'39		conjunction	-1366 Jul 22 j 05:23	15° Θ 35'10	0°22'09
retrograde	-1372 Oct 19 j 12:15	4° Θ 51'20		minimum elong	-1366 Jul 22 j 05:23	15° Θ 35'10	0°22'11
opposition	-1371 Jan 04 j 17:45	3° Θ 28'34	-0°03'21	morning rise	-1366 Aug 07 j 05:47	16° Θ 10'33	
min. Earth dist.	-1371 Jan 05 j 08:40	3° Θ 27'31	29.10896 AU	retrograde	-1366 Nov 02 j 05:34	18° Θ 02'48	
direct	-1371 Mar 25 j 16:30	2° Θ 03'11		opposition	-1365 Jan 18 j 07:27	16° Θ 40'34	0°26'00
evening set	-1371 Jun 24 j 08:40	3° Θ 59'09		min. Earth dist.	-1365 Jan 19 j 02:39	16° Θ 39'14	29.17747 AU
				direct	-1365 Apr 08 j 16:32	15° Θ 15'21	
conjunction	-1371 Jul 10 j 14:40	4° Θ 34'59	-0°00'49	evening set	-1365 Jul 08 j 14:22	17° Θ 11'38	
minimum elong	-1371 Jul 10 j 14:40	4° Θ 34'59	0°00'49				
behind sun begin	-1371 Jul 10 j 08:06	4° Θ 34'24		conjunction	-1365 Jul 24 j 17:42	17° Θ 47'16	0°26'39
behind sun end	-1371 Jul 10 j 21:14	4° Θ 35'34		minimum elong	-1365 Jul 24 j 17:42	17° Θ 47'16	0°26'39
max. Earth dist.	-1371 Jul 09 j 20:45	4° Θ 33'20	31.11406 AU	max. Earth dist.	-1365 Jul 23 j 20:08	17° Θ 45'16	31.18187 AU
morning rise	-1371 Jul 26 j 17:45	5° Θ 10'35		morning rise	-1365 Aug 09 j 17:40	18° Θ 22'36	
asc. node	-1371 Sep 11 j 06:58	6° Θ 35'21		retrograde	-1365 Nov 04 j 16:34	20° Θ 14'46	
retrograde	-1371 Oct 21 j 22:53	7° Θ 03'10		opposition	-1364 Jan 20 j 17:54	18° Θ 52'35	0°30'47
opposition	-1370 Jan 07 j 03:51	5° Θ 40'28	0°01'35	min. Earth dist.	-1364 Jan 21 j 12:42	18° Θ 51'17	29.18651 AU
min. Earth dist.	-1370 Jan 07 j 19:39	5° Θ 39'22	29.11981 AU	direct	-1364 Apr 10 j 04:36	17° Θ 27'22	
direct	-1370 Mar 28 j 02:51	4° Θ 15'06		evening set	-1364 Jul 10 j 02:57	19° Θ 23'39	
evening set	-1370 Jun 26 j 21:40	6° Θ 11'07		max. Earth dist.	-1364 Jul 25 j 07:49	19° Θ 57'12	31.19027 AU
max. Earth dist.	-1370 Jul 12 j 09:53	6° Θ 45'18	31.12547 AU				
				conjunction	-1364 Jul 26 j 05:50	19° Θ 59'15	0°31'06
conjunction	-1370 Jul 13 j 03:26	6° Θ 46'55	0°03'54	minimum elong	-1364 Jul 26 j 05:50	19° Θ 59'15	0°31'08
minimum elong	-1370 Jul 13 j 03:25	6° Θ 46'55	0°03'55	morning rise	-1364 Aug 11 j 05:09	20° Θ 34'32	
behind sun begin	-1370 Jul 12 j 20:56	6° Θ 46'20		retrograde	-1364 Nov 06 j 00:39	22° Θ 26'37	
behind sun end	-1370 Jul 13 j 09:54	6° Θ 47'29		opposition	-1363 Jan 22 j 04:25	21° Θ 04'29	0°35'32
morning rise	-1370 Jul 29 j 05:57	7° Θ 22'28		min. Earth dist.	-1363 Jan 23 j 00:48	21° Θ 03'04	29.19451 AU

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Attention, astronomical year style is used: The year -1363 in astronomical counting style is the year 1364 BCE in historical counting style.

direct	-1363 Apr 12 j 15:40	19° $\overline{0}$ 39'14		minimum elong	-1357 Aug 11 j 15:24	5° Ω 18'13	1°00'36
evening set	-1363 Jul 12 j 15:34	21° $\overline{0}$ 35'31		max. Earth dist.	-1357 Aug 10 j 16:30	5° Ω 16'05	31.24756 AU
				morning rise	-1357 Aug 27 j 10:23	5° Ω 53'09	
conjunction	-1363 Jul 28 j 17:56	22° $\overline{0}$ 11'04	0°35'30	retrograde	-1357 Nov 21 j 23:51	7° Ω 44'49	
minimum elong	-1363 Jul 28 j 17:56	22° $\overline{0}$ 11'04	0°35'31	opposition	-1356 Feb 07 j 05:51	6° Ω 22'53	1°06'46
max. Earth dist.	-1363 Jul 27 j 19:29	22° $\overline{0}$ 08'59	31.19787 AU	min. Earth dist.	-1356 Feb 08 j 03:38	6° Ω 21'23	29.25356 AU
morning rise	-1363 Aug 13 j 16:43	22° $\overline{0}$ 46'19		direct	-1356 Apr 28 j 04:00	4° Ω 57'39	
retrograde	-1363 Nov 08 j 09:58	24° $\overline{0}$ 38'18		evening set	-1356 Jul 28 j 04:18	6° Ω 53'58	
opposition	-1362 Jan 24 j 14:41	23° $\overline{0}$ 16'12	0°40'13	max. Earth dist.	-1356 Aug 12 j 02:56	7° Ω 27'00	31.25837 AU
min. Earth dist.	-1362 Jan 25 j 10:57	23° $\overline{0}$ 14'47	29.20170 AU				
direct	-1362 Apr 15 j 03:54	21° $\overline{0}$ 50'55		conjunction	-1356 Aug 13 j 02:30	7° Ω 29'11	1°04'30
evening set	-1362 Jul 15 j 04:08	23° $\overline{0}$ 47'12		minimum elong	-1356 Aug 13 j 02:30	7° Ω 29'11	1°04'31
max. Earth dist.	-1362 Jul 30 j 06:32	24° $\overline{0}$ 20'32	31.20481 AU	morning rise	-1356 Aug 28 j 21:00	8° Ω 04'05	
				retrograde	-1356 Nov 23 j 10:39	9° Ω 55'44	
conjunction	-1362 Jul 31 j 05:54	24° $\overline{0}$ 22'42	0°39'51	opposition	-1355 Feb 08 j 16:29	8° Ω 33'53	1°10'54
minimum elong	-1362 Jul 31 j 05:54	24° $\overline{0}$ 22'42	0°39'53	min. Earth dist.	-1355 Feb 09 j 13:29	8° Ω 32'26	29.26426 AU
morning rise	-1362 Aug 16 j 04:07	24° $\overline{0}$ 57'54		direct	-1355 Apr 30 j 16:25	7° Ω 08'41	
retrograde	-1362 Nov 10 j 20:04	26° $\overline{0}$ 49'48		evening set	-1355 Jul 30 j 16:13	9° Ω 05'03	
opposition	-1361 Jan 27 j 01:11	25° $\overline{0}$ 27'42	0°44'50				
min. Earth dist.	-1361 Jan 27 j 22:16	25° $\overline{0}$ 26'14	29.20870 AU	conjunction	-1355 Aug 15 j 13:49	9° Ω 40'13	1°08'18
direct	-1361 Apr 17 j 13:51	24° $\overline{0}$ 02'23		minimum elong	-1355 Aug 15 j 13:48	9° Ω 40'13	1°08'19
evening set	-1361 Jul 17 j 16:18	25° $\overline{0}$ 58'39		max. Earth dist.	-1355 Aug 14 j 14:08	9° Ω 38'01	31.26871 AU
				morning rise	-1355 Aug 31 j 07:34	10° Ω 15'04	
conjunction	-1361 Aug 02 j 17:36	26° $\overline{0}$ 34'06	0°44'09	retrograde	-1355 Nov 25 j 19:26	12° Ω 06'43	
minimum elong	-1361 Aug 02 j 17:35	26° $\overline{0}$ 34'06	0°44'10	opposition	-1354 Feb 11 j 03:15	10° Ω 44'56	1°14'55
max. Earth dist.	-1361 Aug 01 j 18:51	26° $\overline{0}$ 31'59	31.21179 AU	min. Earth dist.	-1354 Feb 12 j 01:34	10° Ω 43'23	29.27435 AU
morning rise	-1361 Aug 18 j 15:06	27° $\overline{0}$ 09'15		direct	-1354 May 03 j 02:57	9° Ω 19'48	
retrograde	-1361 Nov 13 j 05:22	29° $\overline{0}$ 01'05		evening set	-1354 Aug 02 j 04:07	11° Ω 16'10	
opposition	-1360 Jan 29 j 11:41	27° $\overline{0}$ 38'59	0°49'23	max. Earth dist.	-1354 Aug 17 j 01:16	11° Ω 49'05	31.27826 AU
min. Earth dist.	-1360 Jan 30 j 08:47	27° $\overline{0}$ 37'31	29.21582 AU				
direct	-1360 Apr 19 j 03:25	26° $\overline{0}$ 13'38		conjunction	-1354 Aug 18 j 01:04	11° Ω 51'17	1°12'01
evening set	-1360 Jul 19 j 04:32	28° $\overline{0}$ 09'54		minimum elong	-1354 Aug 18 j 01:03	11° Ω 51'17	1°12'02
max. Earth dist.	-1360 Aug 03 j 05:14	28° $\overline{0}$ 43'05	31.21923 AU	morning rise	-1354 Sep 02 j 18:11	12° Ω 26'05	
				retrograde	-1354 Nov 28 j 05:01	14° Ω 17'44	
conjunction	-1360 Aug 04 j 05:07	28° $\overline{0}$ 45'18	0°48'22	opposition	-1353 Feb 13 j 14:10	12° Ω 56'00	1°18'50
minimum elong	-1360 Aug 04 j 05:06	28° $\overline{0}$ 45'18	0°48'24	min. Earth dist.	-1353 Feb 14 j 12:11	12° Ω 54'29	29.28326 AU
morning rise	-1360 Aug 20 j 02:08	29° $\overline{0}$ 20'24		direct	-1353 May 05 j 15:02	11° Ω 30'55	
	-1360 Sep 08 j 06:03	0° Ω		evening set	-1353 Aug 04 j 15:53	13° Ω 27'17	
retrograde	-1360 Nov 14 j 17:03	1° Ω 12'09		max. Earth dist.	-1353 Aug 19 j 11:28	14° Ω 00'05	31.28642 AU
	-1359 Jan 24 j 22:29	30° \overline{R} $\overline{0}$					
opposition	-1359 Jan 30 j 22:02	29° $\overline{0}$ 50'04	0°53'51	conjunction	-1353 Aug 20 j 12:05	14° Ω 02'22	1°15'38
min. Earth dist.	-1359 Jan 31 j 18:58	29° $\overline{0}$ 48'37	29.22386 AU	minimum elong	-1353 Aug 20 j 12:05	14° Ω 02'22	1°15'38
direct	-1359 Apr 21 j 15:14	28° $\overline{0}$ 24'43		morning rise	-1353 Sep 05 j 04:35	14° Ω 37'08	
	-1359 Jul 11 j 19:14	0° Ω			-1353 Sep 15 j 23:00	15° Ω	
evening set	-1359 Jul 21 j 16:31	0° Ω 20'59		retrograde	-1353 Nov 30 j 15:22	16° Ω 28'47	
				opposition	-1352 Feb 16 j 01:12	15° Ω 07'05	1°22'37
conjunction	-1359 Aug 06 j 16:41	0° Ω 56'20	0°52'31	min. Earth dist.	-1352 Feb 16 j 23:54	15° Ω 05'31	29.29089 AU
minimum elong	-1359 Aug 06 j 16:41	0° Ω 56'20	0°52'32		-1352 Feb 20 j 08:13	15° \overline{R} $\overline{0}$	
max. Earth dist.	-1359 Aug 05 j 17:51	0° Ω 54'13	31.22767 AU	direct	-1352 May 07 j 00:50	13° Ω 42'01	
morning rise	-1359 Aug 22 j 12:56	1° Ω 31'23			-1352 Jul 18 j 15:22	15° Ω	
retrograde	-1359 Nov 17 j 01:59	3° Ω 23'05		evening set	-1352 Aug 06 j 03:32	15° Ω 38'24	
opposition	-1358 Feb 02 j 08:37	2° Ω 01'02	0°58'15				
min. Earth dist.	-1358 Feb 03 j 06:11	1° Ω 59'32	29.23281 AU	conjunction	-1352 Aug 21 j 23:14	16° Ω 13'25	1°19'07
direct	-1358 Apr 24 j 03:30	0° Ω 35'42		minimum elong	-1352 Aug 21 j 23:13	16° Ω 13'25	1°19'08
evening set	-1358 Jul 24 j 04:37	2° Ω 31'59		max. Earth dist.	-1352 Aug 20 j 23:07	16° Ω 11'10	31.29325 AU
max. Earth dist.	-1358 Aug 08 j 04:10	3° Ω 05'04	31.23719 AU	morning rise	-1352 Sep 06 j 15:00	16° Ω 48'08	
				retrograde	-1352 Dec 02 j 00:32	18° Ω 39'47	
conjunction	-1358 Aug 09 j 03:59	3° Ω 07'17	0°56'36	opposition	-1351 Feb 17 j 12:05	17° Ω 18'06	1°26'18
minimum elong	-1358 Aug 09 j 03:59	3° Ω 07'17	0°56'37	min. Earth dist.	-1351 Feb 18 j 11:06	17° Ω 16'31	29.29697 AU
morning rise	-1358 Aug 24 j 23:46	3° Ω 42'16		direct	-1351 May 09 j 13:53	15° Ω 53'03	
retrograde	-1358 Nov 19 j 13:48	5° Ω 33'57		evening set	-1351 Aug 08 j 15:16	17° Ω 49'25	
opposition	-1357 Feb 04 j 19:07	4° Ω 11'57	1°02'33	max. Earth dist.	-1351 Aug 23 j 08:40	18° Ω 22'01	31.29863 AU
min. Earth dist.	-1357 Feb 05 j 15:51	4° Ω 10'31	29.24286 AU				
direct	-1357 Apr 26 j 15:54	2° Ω 46'39		conjunction	-1351 Aug 24 j 10:10	18° Ω 24'24	1°22'30
evening set	-1357 Jul 26 j 16:30	4° Ω 42'57		minimum elong	-1351 Aug 24 j 10:10	18° Ω 24'24	1°22'31
				morning rise	-1351 Sep 09 j 01:27	18° Ω 59'04	
conjunction	-1357 Aug 11 j 15:24	5° Ω 18'13	1°00'35	retrograde	-1351 Dec 04 j 12:11	20° Ω 50'42	

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Attention, astronomical year style is used: The year -1350 in astronomical counting style is the year 1351 BCE in historical counting style.

opposition	-1350 Feb 19 j 23:04	19°Ω29'01	1°29'51	max. Earth dist.	-1344 Sep 07 j 11:33	3°♊35'58	31.32915 AU
min. Earth dist.	-1350 Feb 20 j 22:01	19°Ω27'27	29.30182 AU				
direct	-1350 May 12 j 01:12	18°Ω03'58		conjunction	-1344 Sep 08 j 11:06	3°♊38'10	1°42'34
evening set	-1350 Aug 11 j 02:39	20°Ω00'20		minimum elong	-1344 Sep 08 j 11:06	3°♊38'10	1°42'34
				morning rise	-1344 Sep 23 j 22:06	4°♊12'32	
conjunction	-1350 Aug 26 j 21:04	20°Ω35'15	1°25'46	retrograde	-1344 Dec 19 j 09:10	6°♊04'20	
minimum elong	-1350 Aug 26 j 21:03	20°Ω35'15	1°25'47	opposition	-1343 Mar 07 j 04:56	4°♊42'41	1°50'46
max. Earth dist.	-1350 Aug 25 j 20:31	20°Ω32'58	31.30282 AU	min. Earth dist.	-1343 Mar 08 j 02:51	4°♊41'11	29.33336 AU
morning rise	-1350 Sep 11 j 11:32	21°Ω09'52		direct	-1343 May 27 j 11:56	3°♊17'51	
retrograde	-1350 Dec 06 j 21:04	23°Ω01'31		evening set	-1343 Aug 26 j 07:23	5°♊14'05	
opposition	-1349 Feb 22 j 10:12	21°Ω39'49	1°33'16				
min. Earth dist.	-1349 Feb 23 j 09:58	21°Ω38'12	29.30558 AU	conjunction	-1343 Sep 10 j 21:20	5°♊48'42	1°44'52
direct	-1349 May 14 j 13:21	20°Ω14'47		minimum elong	-1343 Sep 10 j 21:20	5°♊48'42	1°44'52
evening set	-1349 Aug 13 j 14:04	22°Ω11'06		max. Earth dist.	-1343 Sep 09 j 22:55	5°♊46'36	31.33496 AU
max. Earth dist.	-1349 Aug 28 j 06:12	22°Ω43'36	31.30634 AU	morning rise	-1343 Sep 26 j 07:40	6°♊23'02	
				retrograde	-1343 Dec 21 j 17:56	8°♊14'53	
conjunction	-1349 Aug 29 j 07:39	22°Ω45'58	1°28'54	opposition	-1342 Mar 09 j 16:24	6°♊53'17	1°53'09
minimum elong	-1349 Aug 29 j 07:39	22°Ω45'58	1°28'54	min. Earth dist.	-1342 Mar 10 j 14:11	6°♊51'48	29.33884 AU
morning rise	-1349 Sep 13 j 21:41	23°Ω20'32		direct	-1342 May 30 j 00:20	5°♊28'31	
retrograde	-1349 Dec 09 j 08:45	25°Ω12'10		evening set	-1342 Aug 28 j 18:08	7°♊24'44	
opposition	-1348 Feb 24 j 21:11	23°Ω50'28	1°36'33	max. Earth dist.	-1342 Sep 12 j 08:00	7°♊57'08	31.34003 AU
min. Earth dist.	-1348 Feb 25 j 20:00	23°Ω48'54	29.30903 AU				
direct	-1348 May 16 j 02:08	22°Ω25'25		conjunction	-1342 Sep 13 j 07:18	7°♊59'19	1°47'01
evening set	-1348 Aug 15 j 01:02	24°Ω21'42		minimum elong	-1342 Sep 13 j 07:18	7°♊59'19	1°47'02
				morning rise	-1342 Sep 28 j 17:13	8°♊33'36	
conjunction	-1348 Aug 30 j 18:09	24°Ω56'32	1°31'54	retrograde	-1342 Dec 24 j 05:27	10°♊25'32	
minimum elong	-1348 Aug 30 j 18:09	24°Ω56'32	1°31'55	opposition	-1341 Mar 12 j 03:54	9°♊03'56	1°55'22
max. Earth dist.	-1348 Aug 29 j 17:46	24°Ω54'16	31.30965 AU	min. Earth dist.	-1341 Mar 13 j 01:11	9°♊02'29	29.34353 AU
morning rise	-1348 Sep 15 j 07:25	25°Ω31'03		direct	-1341 Jun 01 j 10:16	7°♊39'14	
retrograde	-1348 Dec 10 j 18:44	27°Ω22'42		evening set	-1341 Aug 31 j 04:45	9°♊35'25	
opposition	-1347 Feb 26 j 08:20	26°Ω00'58	1°39'41				
min. Earth dist.	-1347 Feb 27 j 07:57	25°Ω59'21	29.31255 AU	conjunction	-1341 Sep 15 j 17:28	10°♊09'58	1°49'01
direct	-1347 May 18 j 14:54	24°Ω35'56		minimum elong	-1341 Sep 15 j 17:28	10°♊09'58	1°49'01
evening set	-1347 Aug 17 j 12:09	26°Ω32'12		max. Earth dist.	-1341 Sep 14 j 19:21	10°♊07'54	31.34403 AU
max. Earth dist.	-1347 Sep 01 j 03:55	27°Ω04'41	31.31342 AU	morning rise	-1341 Oct 01 j 02:41	10°♊44'13	
				retrograde	-1341 Dec 26 j 14:44	12°♊36'13	
conjunction	-1347 Sep 02 j 04:30	27°Ω06'59	1°34'47	opposition	-1340 Mar 13 j 15:33	11°♊14'37	1°57'26
minimum elong	-1347 Sep 02 j 04:30	27°Ω06'59	1°34'46	min. Earth dist.	-1340 Mar 14 j 13:31	11°♊13'08	29.34691 AU
morning rise	-1347 Sep 17 j 17:16	27°Ω41'27		direct	-1340 Jun 02 j 21:32	9°♊49'58	
retrograde	-1347 Dec 13 j 04:58	29°Ω33'06		evening set	-1340 Sep 01 j 15:23	11°♊46'07	
opposition	-1346 Feb 28 j 19:18	28°Ω11'23	1°42'41	max. Earth dist.	-1340 Sep 16 j 04:26	12°♊18'28	31.34671 AU
min. Earth dist.	-1346 Mar 01 j 17:33	28°Ω09'51	29.31667 AU				
direct	-1346 May 21 j 03:46	26°Ω46'22		conjunction	-1340 Sep 17 j 03:24	12°♊20'37	1°50'52
evening set	-1346 Aug 19 j 23:07	28°Ω42'37		minimum elong	-1340 Sep 17 j 03:23	12°♊20'37	1°50'53
				morning rise	-1340 Oct 02 j 12:16	12°♊54'50	
conjunction	-1346 Sep 04 j 14:51	29°Ω17'21	1°37'31	retrograde	-1340 Dec 28 j 02:48	14°♊46'53	
minimum elong	-1346 Sep 04 j 14:51	29°Ω17'21	1°37'31	opposition	-1339 Mar 16 j 03:07	13°♊25'16	1°59'19
max. Earth dist.	-1346 Sep 03 j 14:46	29°Ω15'06	31.31789 AU	min. Earth dist.	-1339 Mar 17 j 00:07	13°♊23'50	29.34883 AU
morning rise	-1346 Sep 20 j 02:56	29°Ω51'47		direct	-1339 Jun 05 j 10:16	12°♊00'38	
	-1346 Sep 23 j 22:04	0°♊		evening set	-1339 Sep 04 j 01:53	13°♊56'44	
retrograde	-1346 Dec 15 j 13:36	1°♊43'28					
opposition	-1345 Mar 03 j 06:36	0°♊21'46	1°45'32	conjunction	-1339 Sep 19 j 13:27	14°♊31'12	1°52'33
min. Earth dist.	-1345 Mar 04 j 05:19	0°♊20'12	29.32171 AU	minimum elong	-1339 Sep 19 j 13:27	14°♊31'12	1°52'33
	-1345 Mar 16 j 16:01	30°♊		max. Earth dist.	-1339 Sep 18 j 15:18	14°♊29'08	31.34774 AU
direct	-1345 May 23 j 14:28	28°Ω56'48		morning rise	-1339 Oct 04 j 21:40	15°♊05'23	
	-1345 Jul 27 j 04:33	0°♊		retrograde	-1339 Dec 30 j 13:13	16°♊57'29	
evening set	-1345 Aug 22 j 09:50	0°♊53'02		opposition	-1338 Mar 18 j 14:51	15°♊35'50	2°01'02
max. Earth dist.	-1345 Sep 06 j 01:39	1°♊25'33	31.32333 AU	min. Earth dist.	-1338 Mar 19 j 12:46	15°♊34'20	29.34919 AU
				direct	-1338 Jun 07 j 22:48	14°♊11'12	
conjunction	-1345 Sep 07 j 00:58	1°♊27'44	1°40'06	evening set	-1338 Sep 06 j 12:23	16°♊07'15	
minimum elong	-1345 Sep 07 j 00:58	1°♊27'44	1°40'06				
morning rise	-1345 Sep 22 j 12:29	2°♊02'07		conjunction	-1338 Sep 21 j 23:19	16°♊41'40	1°54'05
retrograde	-1345 Dec 17 j 22:48	3°♊53'51		minimum elong	-1338 Sep 21 j 23:19	16°♊41'40	1°54'05
opposition	-1344 Mar 04 j 17:48	2°♊32'11	1°48'14	max. Earth dist.	-1338 Sep 21 j 00:58	16°♊39'35	31.34750 AU
min. Earth dist.	-1344 Mar 05 j 15:33	2°♊30'42	29.32737 AU	morning rise	-1338 Oct 07 j 07:09	17°♊15'50	
direct	-1344 May 25 j 02:29	1°♊07'17		retrograde	-1337 Jan 01 j 23:40	19°♊07'58	
evening set	-1344 Aug 23 j 20:40	3°♊03'31		opposition	-1337 Mar 21 j 02:33	17°♊46'15	2°02'35

Planetary Phenomena of Neptune from -1400 through -898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 6

Attention, astronomical year style is used: The year -1337 in astronomical counting style is the year 1338 BCE in historical counting style.

min. Earth dist.	-1337 Mar 21 j 23:11	17° $\overline{00}$ 44'51	29.34831 AU	conjunction	-1331 Oct 06 j 17:23	1° $\underline{05}$ 51'48	2°00'09
direct	-1337 Jun 10 j 11:53	16° $\overline{00}$ 21'38		minimum elong	-1331 Oct 06 j 17:22	1° $\underline{05}$ 51'48	2°00'08
evening set	-1337 Sep 08 j 22:32	18° $\overline{00}$ 17'36		max. Earth dist.	-1331 Oct 05 j 23:31	1° $\underline{05}$ 50'08	31.34291 AU
max. Earth dist.	-1337 Sep 23 j 10:58	18° $\overline{00}$ 49'56	31.34609 AU	morning rise	-1331 Oct 21 j 22:32	2° $\underline{05}$ 25'49	
				retrograde	-1330 Jan 16 j 21:32	4° $\underline{05}$ 18'29	
conjunction	-1337 Sep 24 j 08:58	18° $\overline{00}$ 51'59	1°55'27	opposition	-1330 Apr 05 j 13:15	2° $\underline{05}$ 56'34	2°08'27
minimum elong	-1337 Sep 24 j 08:58	18° $\overline{00}$ 51'59	1°55'26	min. Earth dist.	-1330 Apr 06 j 05:26	2° $\underline{05}$ 55'28	29.34484 AU
morning rise	-1337 Oct 09 j 16:20	19° $\overline{00}$ 26'07		direct	-1330 Jun 25 j 19:01	1° $\underline{05}$ 32'15	
retrograde	-1336 Jan 04 j 08:59	21° $\overline{00}$ 18'17		evening set	-1330 Sep 23 j 19:31	3° $\underline{05}$ 27'51	
opposition	-1336 Mar 22 j 14:21	19° $\overline{00}$ 56'30	2°03'57	max. Earth dist.	-1330 Oct 08 j 10:09	4° $\underline{05}$ 00'29	31.34376 AU
min. Earth dist.	-1336 Mar 23 j 11:32	19° $\overline{00}$ 55'04	29.34665 AU				
direct	-1336 Jun 11 j 23:33	18° $\overline{00}$ 31'53		conjunction	-1330 Oct 09 j 02:45	4° $\underline{05}$ 02'02	2°00'20
evening set	-1336 Sep 10 j 08:38	20° $\overline{00}$ 27'46		minimum elong	-1330 Oct 09 j 02:45	4° $\underline{05}$ 02'02	2°00'20
				morning rise	-1330 Oct 24 j 07:29	4° $\underline{05}$ 36'02	
conjunction	-1336 Sep 25 j 18:36	21° $\overline{00}$ 02'07	1°56'39	retrograde	-1329 Jan 19 j 08:55	6° $\underline{05}$ 28'50	
minimum elong	-1336 Sep 25 j 18:36	21° $\overline{00}$ 02'07	1°56'39	opposition	-1329 Apr 08 j 01:30	5° $\underline{05}$ 06'55	2°08'33
max. Earth dist.	-1336 Sep 24 j 21:32	21° $\overline{00}$ 00'09	31.34425 AU	min. Earth dist.	-1329 Apr 08 j 18:08	5° $\underline{05}$ 05'47	29.34549 AU
morning rise	-1336 Oct 11 j 01:31	21° $\overline{00}$ 36'13		direct	-1329 Jun 28 j 06:20	3° $\underline{05}$ 42'41	
retrograde	-1335 Jan 05 j 18:01	23° $\overline{00}$ 28'25		evening set	-1329 Sep 26 j 05:06	5° $\underline{05}$ 38'15	
opposition	-1335 Mar 25 j 01:55	22° $\overline{00}$ 06'35	2°05'09				
min. Earth dist.	-1335 Mar 25 j 22:02	22° $\overline{00}$ 05'13	29.34470 AU	conjunction	-1329 Oct 11 j 11:55	6° $\underline{05}$ 12'26	2°00'21
direct	-1335 Jun 14 j 12:45	20° $\overline{00}$ 41'58		minimum elong	-1329 Oct 11 j 11:55	6° $\underline{05}$ 12'26	2°00'20
evening set	-1335 Sep 12 j 18:44	22° $\overline{00}$ 37'46		max. Earth dist.	-1329 Oct 10 j 19:39	6° $\underline{05}$ 10'54	31.34410 AU
max. Earth dist.	-1335 Sep 27 j 07:01	23° $\overline{00}$ 10'07	31.34241 AU	morning rise	-1329 Oct 26 j 16:28	6° $\underline{05}$ 46'25	
				retrograde	-1328 Jan 21 j 19:59	8° $\underline{05}$ 39'20	
conjunction	-1335 Sep 28 j 04:05	23° $\overline{00}$ 12'05	1°57'41	opposition	-1328 Apr 09 j 13:37	7° $\underline{05}$ 17'25	2°08'29
minimum elong	-1335 Sep 28 j 04:05	23° $\overline{00}$ 12'05	1°57'41	min. Earth dist.	-1328 Apr 10 j 04:44	7° $\underline{05}$ 16'23	29.34527 AU
morning rise	-1335 Oct 13 j 10:40	23° $\overline{00}$ 46'10		direct	-1328 Jun 29 j 18:38	5° $\underline{05}$ 53'16	
retrograde	-1334 Jan 08 j 04:12	25° $\overline{00}$ 38'25		evening set	-1328 Sep 27 j 14:50	7° $\underline{05}$ 48'47	
opposition	-1334 Mar 27 j 13:44	24° $\overline{00}$ 16'32	2°06'11				
min. Earth dist.	-1334 Mar 28 j 09:26	24° $\overline{00}$ 15'12	29.34327 AU	conjunction	-1328 Oct 12 j 21:17	8° $\underline{05}$ 22'57	2°00'12
direct	-1334 Jun 16 j 23:04	22° $\overline{00}$ 51'56		minimum elong	-1328 Oct 12 j 21:17	8° $\underline{05}$ 22'57	2°00'11
evening set	-1334 Sep 15 j 04:30	24° $\overline{00}$ 47'40		max. Earth dist.	-1328 Oct 12 j 05:14	8° $\underline{05}$ 21'26	31.34325 AU
				morning rise	-1328 Oct 28 j 01:34	8° $\underline{05}$ 56'56	
conjunction	-1334 Sep 30 j 13:30	25° $\overline{00}$ 21'57	1°58'33	retrograde	-1327 Jan 23 j 06:29	10° $\underline{05}$ 49'58	
minimum elong	-1334 Sep 30 j 13:30	25° $\overline{00}$ 21'57	1°58'34	opposition	-1327 Apr 12 j 01:49	9° $\underline{05}$ 28'01	2°08'14
max. Earth dist.	-1334 Sep 29 j 18:13	25° $\overline{00}$ 20'09	31.34132 AU	min. Earth dist.	-1327 Apr 12 j 17:26	9° $\underline{05}$ 26'58	29.34386 AU
morning rise	-1334 Oct 15 j 19:32	25° $\overline{00}$ 56'00		direct	-1327 Jul 02 j 06:13	8° $\underline{05}$ 03'56	
retrograde	-1333 Jan 10 j 12:29	27° $\overline{00}$ 48'21		evening set	-1327 Sep 30 j 00:30	9° $\underline{05}$ 59'24	
opposition	-1333 Mar 30 j 01:39	26° $\overline{00}$ 26'25	2°07'01				
min. Earth dist.	-1333 Mar 30 j 20:31	26° $\overline{00}$ 25'08	29.34258 AU	conjunction	-1327 Oct 15 j 06:40	10° $\underline{05}$ 33'33	1°59'52
direct	-1333 Jun 19 j 11:20	25° $\overline{00}$ 01'52		minimum elong	-1327 Oct 15 j 06:40	10° $\underline{05}$ 33'33	1°59'51
evening set	-1333 Sep 17 j 14:26	26° $\overline{00}$ 57'33		max. Earth dist.	-1327 Oct 14 j 15:36	10° $\underline{05}$ 32'08	31.34118 AU
				morning rise	-1327 Oct 30 j 10:40	11° $\underline{05}$ 07'32	
conjunction	-1333 Oct 02 j 22:48	27° $\overline{00}$ 31'49	1°59'15	retrograde	-1326 Jan 25 j 16:42	13° $\underline{05}$ 00'39	
minimum elong	-1333 Oct 02 j 22:48	27° $\overline{00}$ 31'49	1°59'15	opposition	-1326 Apr 14 j 14:10	11° $\underline{05}$ 38'40	2°07'47
max. Earth dist.	-1333 Oct 02 j 03:15	27° $\overline{00}$ 29'58	31.34118 AU	min. Earth dist.	-1326 Apr 15 j 04:45	11° $\underline{05}$ 37'41	29.34096 AU
morning rise	-1333 Oct 18 j 04:38	28° $\overline{00}$ 05'50		direct	-1326 Jul 04 j 19:54	10° $\underline{05}$ 14'38	
retrograde	-1332 Jan 12 j 23:49	29° $\overline{00}$ 58'17		evening set	-1326 Oct 02 j 10:05	12° $\underline{05}$ 10'02	
opposition	-1332 Mar 31 j 13:22	28° $\overline{00}$ 36'20	2°07'41				
min. Earth dist.	-1332 Apr 01 j 07:01	28° $\overline{00}$ 35'09	29.34296 AU	conjunction	-1326 Oct 17 j 15:49	12° $\underline{05}$ 44'10	1°59'22
direct	-1332 Jun 20 j 20:37	27° $\overline{00}$ 11'51		minimum elong	-1326 Oct 17 j 15:49	12° $\underline{05}$ 44'10	1°59'22
evening set	-1332 Sep 19 j 00:03	29° $\overline{00}$ 07'30		max. Earth dist.	-1326 Oct 17 j 00:28	12° $\underline{05}$ 42'43	31.33762 AU
				morning rise	-1326 Nov 01 j 19:44	13° $\underline{05}$ 18'08	
conjunction	-1332 Oct 04 j 08:11	29° $\overline{00}$ 41'44	1°59'47	retrograde	-1325 Jan 28 j 03:28	15° $\underline{05}$ 11'22	
minimum elong	-1332 Oct 04 j 08:11	29° $\overline{00}$ 41'44	1°59'48	opposition	-1325 Apr 17 j 02:39	13° $\underline{05}$ 49'19	2°07'10
max. Earth dist.	-1332 Oct 03 j 14:26	29° $\overline{00}$ 40'04	31.34186 AU	min. Earth dist.	-1325 Apr 17 j 16:58	13° $\underline{05}$ 48'21	29.33680 AU
	-1332 Oct 12 j 11:03	0° $\underline{05}$		direct	-1325 Jul 07 j 06:37	12° $\underline{05}$ 25'19	
morning rise	-1332 Oct 19 j 13:32	0° $\underline{05}$ 15'46		evening set	-1325 Oct 04 j 19:31	14° $\underline{05}$ 20'36	
retrograde	-1331 Jan 14 j 09:14	2° $\underline{05}$ 08'19		max. Earth dist.	-1325 Oct 19 j 11:21	14° $\underline{05}$ 53'25	31.33286 AU
opposition	-1331 Apr 03 j 01:21	0° $\underline{05}$ 46'23	2°08'09				
min. Earth dist.	-1331 Apr 03 j 19:04	0° $\underline{05}$ 45'11	29.34381 AU	conjunction	-1325 Oct 20 j 01:09	14° $\underline{05}$ 54'43	1°58'42
	-1331 May 03 j 05:42	30° $\overline{00}$ 11'58		minimum elong	-1325 Oct 20 j 01:09	14° $\underline{05}$ 54'43	1°58'42
direct	-1331 Jun 23 j 07:20	29° $\overline{00}$ 21'58		morning rise	-1325 Nov 04 j 04:46	15° $\underline{05}$ 28'42	
	-1331 Aug 11 j 13:19	0° $\underline{05}$		retrograde	-1324 Jan 30 j 11:31	17° $\underline{05}$ 22'00	
evening set	-1331 Sep 21 j 09:50	1° $\underline{05}$ 17'36		opposition	-1324 Apr 18 j 14:56	15° $\underline{05}$ 59'53	2°06'23
				min. Earth dist.	-1324 Apr 19 j 04:47	15° $\underline{05}$ 58'57	29.33145 AU

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Attention, astronomical year style is used: The year -1324 in astronomical counting style is the year 1325 BCE in historical counting style.

direct	-1324 Jul 08 j 19:18	14° <u>♂</u> 35'53		minimum elong	-1318 Nov 03 j 16:00	0° <u>♂</u> 06'52	1°49'25
evening set	-1324 Oct 06 j 04:57	16° <u>♂</u> 31'05		max. Earth dist.	-1318 Nov 03 j 08:43	0° <u>♂</u> 06'11	31.30137 AU
				morning rise	-1318 Nov 18 j 19:11	0° <u>♂</u> 40'53	
conjunction	-1324 Oct 21 j 10:12	17° <u>♂</u> 05'11	1°57'53	retrograde	-1317 Feb 14 j 16:46	2° <u>♂</u> 34'56	
minimum elong	-1324 Oct 21 j 10:12	17° <u>♂</u> 05'11	1°57'53	opposition	-1317 May 05 j 06:33	1° <u>♂</u> 12'26	1°55'52
max. Earth dist.	-1324 Oct 20 j 19:59	17° <u>♂</u> 03'51	31.32725 AU	min. Earth dist.	-1317 May 05 j 13:23	1° <u>♂</u> 11'58	29.30081 AU
morning rise	-1324 Nov 05 j 13:52	17° <u>♂</u> 39'09			-1317 Jun 28 j 06:58	30° <u>♀</u> <u>♂</u>	
retrograde	-1323 Jan 31 j 22:34	19° <u>♂</u> 32'32		direct	-1317 Jul 25 j 02:40	29° <u>♂</u> 48'46	
opposition	-1323 Apr 21 j 03:18	18° <u>♂</u> 10'20	2°05'24		-1317 Aug 20 j 06:30	0° <u>♂</u>	
min. Earth dist.	-1323 Apr 21 j 15:56	18° <u>♂</u> 09'29	29.32563 AU	evening set	-1317 Oct 21 j 20:58	1° <u>♂</u> 43'23	
direct	-1323 Jul 11 j 05:18	16° <u>♂</u> 46'20					
evening set	-1323 Oct 08 j 14:07	18° <u>♂</u> 41'25		conjunction	-1317 Nov 06 j 01:01	2° <u>♂</u> 17'28	1°47'27
				minimum elong	-1317 Nov 06 j 01:01	2° <u>♂</u> 17'28	1°47'26
conjunction	-1323 Oct 23 j 19:15	19° <u>♂</u> 15'31	1°56'53	max. Earth dist.	-1317 Nov 05 j 17:40	2° <u>♂</u> 16'47	31.29803 AU
minimum elong	-1323 Oct 23 j 19:15	19° <u>♂</u> 15'31	1°56'52	morning rise	-1317 Nov 21 j 04:23	2° <u>♂</u> 51'31	
max. Earth dist.	-1323 Oct 23 j 06:55	19° <u>♂</u> 14'21	31.32132 AU	retrograde	-1316 Feb 17 j 04:24	4° <u>♂</u> 45'42	
morning rise	-1323 Nov 07 j 22:38	19° <u>♂</u> 49'29		opposition	-1316 May 06 j 19:12	3° <u>♂</u> 23'10	1°53'40
retrograde	-1322 Feb 03 j 07:44	21° <u>♂</u> 42'57		min. Earth dist.	-1316 May 07 j 01:37	3° <u>♂</u> 22'44	29.29720 AU
opposition	-1322 Apr 23 j 15:49	20° <u>♂</u> 20'40	2°04'15	direct	-1316 Jul 26 j 12:53	1° <u>♂</u> 59'35	
min. Earth dist.	-1322 Apr 24 j 04:17	20° <u>♂</u> 19'49	29.31979 AU	evening set	-1316 Oct 23 j 06:06	3° <u>♂</u> 54'09	
direct	-1322 Jul 13 j 16:51	18° <u>♂</u> 56'41					
evening set	-1322 Oct 10 j 23:24	20° <u>♂</u> 51'40		conjunction	-1316 Nov 07 j 10:15	4° <u>♂</u> 28'14	1°45'19
				minimum elong	-1316 Nov 07 j 10:15	4° <u>♂</u> 28'14	1°45'19
conjunction	-1322 Oct 26 j 04:11	21° <u>♂</u> 25'44	1°55'43	max. Earth dist.	-1316 Nov 07 j 04:34	4° <u>♂</u> 27'42	31.29392 AU
minimum elong	-1322 Oct 26 j 04:11	21° <u>♂</u> 25'44	1°55'43	morning rise	-1316 Nov 22 j 13:30	5° <u>♂</u> 02'18	
max. Earth dist.	-1322 Oct 25 j 16:10	21° <u>♂</u> 24'36	31.31588 AU	retrograde	-1315 Feb 18 j 13:42	6° <u>♂</u> 56'37	
morning rise	-1322 Nov 10 j 07:35	21° <u>♂</u> 59'43		opposition	-1315 May 09 j 08:03	5° <u>♂</u> 34'04	1°51'18
retrograde	-1321 Feb 05 j 19:34	23° <u>♂</u> 53'16		min. Earth dist.	-1315 May 09 j 13:55	5° <u>♂</u> 33'40	29.29240 AU
opposition	-1321 Apr 26 j 04:13	22° <u>♂</u> 30'54	2°02'56	direct	-1315 Jul 29 j 01:38	4° <u>♂</u> 10'33	
min. Earth dist.	-1321 Apr 26 j 14:39	22° <u>♂</u> 30'12	29.31473 AU	evening set	-1315 Oct 25 j 15:23	6° <u>♂</u> 05'03	
direct	-1321 Jul 16 j 03:56	21° <u>♂</u> 06'57					
evening set	-1321 Oct 13 j 08:26	23° <u>♂</u> 01'50		conjunction	-1315 Nov 09 j 19:17	6° <u>♂</u> 39'09	1°43'02
				minimum elong	-1315 Nov 09 j 19:17	6° <u>♂</u> 39'09	1°43'00
conjunction	-1321 Oct 28 j 13:07	23° <u>♂</u> 35'55	1°54'24	max. Earth dist.	-1315 Nov 09 j 13:10	6° <u>♂</u> 38'34	31.28856 AU
minimum elong	-1321 Oct 28 j 13:07	23° <u>♂</u> 35'55	1°54'23	morning rise	-1315 Nov 24 j 22:45	7° <u>♂</u> 13'14	
max. Earth dist.	-1321 Oct 28 j 02:37	23° <u>♂</u> 34'56	31.31121 AU	retrograde	-1314 Feb 21 j 01:46	9° <u>♂</u> 07'41	
morning rise	-1321 Nov 12 j 16:23	24° <u>♂</u> 09'54		opposition	-1314 May 11 j 20:58	7° <u>♂</u> 45'05	1°48'47
retrograde	-1320 Feb 08 j 06:39	26° <u>♂</u> 03'34		min. Earth dist.	-1314 May 12 j 01:41	7° <u>♂</u> 44'46	29.28633 AU
opposition	-1320 Apr 27 j 16:47	24° <u>♂</u> 41'08	2°01'26	direct	-1314 Jul 31 j 11:57	6° <u>♂</u> 21'38	
min. Earth dist.	-1320 Apr 28 j 03:09	24° <u>♂</u> 40'26	29.31050 AU	evening set	-1314 Oct 28 j 00:35	8° <u>♂</u> 16'03	
direct	-1320 Jul 17 j 14:16	23° <u>♂</u> 17'15					
evening set	-1320 Oct 14 j 17:34	25° <u>♂</u> 12'03		conjunction	-1314 Nov 12 j 04:36	8° <u>♂</u> 50'10	1°40'36
				minimum elong	-1314 Nov 12 j 04:36	8° <u>♂</u> 50'10	1°40'35
conjunction	-1320 Oct 29 j 22:05	25° <u>♂</u> 46'07	1°52'54	max. Earth dist.	-1314 Nov 11 j 23:56	8° <u>♂</u> 49'43	31.28172 AU
minimum elong	-1320 Oct 29 j 22:05	25° <u>♂</u> 46'07	1°52'54	morning rise	-1314 Nov 27 j 08:02	9° <u>♂</u> 24'16	
max. Earth dist.	-1320 Oct 29 j 12:30	25° <u>♂</u> 45'13	31.30750 AU	retrograde	-1313 Feb 23 j 11:46	11° <u>♂</u> 18'52	
morning rise	-1320 Nov 14 j 01:20	26° <u>♂</u> 20'07		opposition	-1313 May 14 j 09:58	9° <u>♂</u> 56'12	1°46'06
retrograde	-1319 Feb 09 j 17:53	28° <u>♂</u> 13'54		min. Earth dist.	-1313 May 14 j 14:52	9° <u>♂</u> 55'52	29.27868 AU
opposition	-1319 Apr 30 j 05:06	26° <u>♂</u> 51'26	1°59'45	direct	-1313 Aug 02 j 23:32	8° <u>♂</u> 32'47	
min. Earth dist.	-1319 Apr 30 j 13:26	26° <u>♂</u> 50'52	29.30700 AU	evening set	-1313 Oct 30 j 09:48	10° <u>♂</u> 27'06	
direct	-1319 Jul 20 j 02:04	25° <u>♂</u> 27'36					
evening set	-1319 Oct 17 j 02:44	27° <u>♂</u> 22'21		conjunction	-1313 Nov 14 j 13:45	11° <u>♂</u> 01'13	1°38'01
				minimum elong	-1313 Nov 14 j 13:45	11° <u>♂</u> 01'13	1°38'00
conjunction	-1319 Nov 01 j 07:03	27° <u>♂</u> 56'25	1°51'15	max. Earth dist.	-1313 Nov 14 j 09:06	11° <u>♂</u> 00'47	31.27347 AU
minimum elong	-1319 Nov 01 j 07:03	27° <u>♂</u> 56'26	1°51'14	morning rise	-1313 Nov 29 j 17:27	11° <u>♂</u> 35'21	
max. Earth dist.	-1319 Oct 31 j 22:06	27° <u>♂</u> 55'35	31.30429 AU	retrograde	-1312 Feb 25 j 23:55	13° <u>♂</u> 30'03	
morning rise	-1319 Nov 16 j 10:19	28° <u>♂</u> 30'26		opposition	-1312 May 15 j 22:48	12° <u>♂</u> 07'19	1°43'17
	-1318 Jan 04 j 19:58	0° <u>♂</u>		min. Earth dist.	-1312 May 16 j 02:07	12° <u>♂</u> 07'06	29.26965 AU
retrograde	-1318 Feb 12 j 05:39	0° <u>♂</u> 24'21		direct	-1312 Aug 04 j 10:34	10° <u>♂</u> 43'55	
	-1318 Mar 23 j 21:39	30° <u>♀</u> <u>♂</u>		evening set	-1312 Oct 31 j 18:55	12° <u>♂</u> 38'09	
opposition	-1318 May 02 j 17:50	29° <u>♂</u> 01'51	1°57'53				
min. Earth dist.	-1318 May 03 j 02:05	29° <u>♂</u> 01'18	29.30398 AU	conjunction	-1312 Nov 15 j 22:55	13° <u>♂</u> 12'17	1°35'18
direct	-1318 Jul 22 j 13:25	27° <u>♂</u> 38'07		minimum elong	-1312 Nov 15 j 22:56	13° <u>♂</u> 12'17	1°35'17
evening set	-1318 Oct 19 j 11:42	29° <u>♂</u> 32'47		max. Earth dist.	-1312 Nov 15 j 19:15	13° <u>♂</u> 11'56	31.26383 AU
	-1318 Oct 31 j 15:13	0° <u>♂</u>		morning rise	-1312 Dec 01 j 02:43	13° <u>♂</u> 46'25	
					-1311 Jan 07 j 23:07	15° <u>♂</u>	
conjunction	-1318 Nov 03 j 16:00	0° <u>♂</u> 06'52	1°49'26	retrograde	-1311 Feb 27 j 11:12	15° <u>♂</u> 41'15	

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Attention, astronomical year style is used: The year -1311 in astronomical counting style is the year 1312 BCE in historical counting style.

	-1311 Apr 21 j 13:04	15° \mathbb{M}		conjunction	-1305 Dec 01 j 14:46	28° \mathbb{M} 29'53	1°12'41
opposition	-1311 May 18 j 11:44	14° \mathbb{M} 18'24	1°40'18	minimum elong	-1305 Dec 01 j 14:46	28° \mathbb{M} 29'53	1°12'40
min. Earth dist.	-1311 May 18 j 15:21	14° \mathbb{M} 18'10	29.25955 AU	max. Earth dist.	-1305 Dec 01 j 18:39	28° \mathbb{M} 30'15	31.20248 AU
direct	-1311 Aug 06 j 20:42	12° \mathbb{M} 55'01		morning rise	-1305 Dec 16 j 20:09	29° \mathbb{M} 04'15	
evening set	-1311 Nov 03 j 03:59	14° \mathbb{M} 49'09			-1304 Jan 13 j 02:13	0° \mathbb{A}	
	-1311 Nov 08 j 01:01	15° \mathbb{M}		retrograde	-1304 Mar 14 j 19:53	0° \mathbb{A} 59'57	
					-1304 May 19 j 15:45	30° \mathbb{R} \mathbb{M}	
conjunction	-1311 Nov 18 j 08:03	15° \mathbb{M} 23'17	1°32'27	opposition	-1304 Jun 03 j 06:27	29° \mathbb{M} 36'39	1°15'41
minimum elong	-1311 Nov 18 j 08:03	15° \mathbb{M} 23'17	1°32'25	min. Earth dist.	-1304 Jun 03 j 02:36	29° \mathbb{M} 36'55	29.19925 AU
max. Earth dist.	-1311 Nov 18 j 05:22	15° \mathbb{M} 23'02	31.25364 AU	direct	-1304 Aug 22 j 06:49	28° \mathbb{M} 13'33	
morning rise	-1311 Dec 03 j 12:01	15° \mathbb{M} 57'27			-1304 Nov 14 j 12:57	0° \mathbb{A}	
retrograde	-1310 Mar 01 j 22:51	17° \mathbb{M} 52'22		evening set	-1304 Nov 17 j 19:16	0° \mathbb{A} 07'10	
opposition	-1310 May 21 j 00:38	16° \mathbb{M} 29'26	1°37'11				
min. Earth dist.	-1310 May 21 j 02:12	16° \mathbb{M} 29'20	29.24917 AU	conjunction	-1304 Dec 03 j 00:04	0° \mathbb{A} 41'27	1°08'59
direct	-1310 Aug 09 j 08:41	15° \mathbb{M} 06'03		minimum elong	-1304 Dec 03 j 00:04	0° \mathbb{A} 41'27	1°08'57
evening set	-1310 Nov 05 j 12:57	17° \mathbb{M} 00'05		max. Earth dist.	-1304 Dec 03 j 04:18	0° \mathbb{A} 41'51	31.19500 AU
				morning rise	-1304 Dec 18 j 05:48	1° \mathbb{A} 15'51	
conjunction	-1310 Nov 20 j 16:59	17° \mathbb{M} 34'14	1°29'28	retrograde	-1303 Mar 17 j 07:48	3° \mathbb{A} 11'42	
minimum elong	-1310 Nov 20 j 17:00	17° \mathbb{M} 34'14	1°29'27	opposition	-1303 Jun 05 j 19:27	1° \mathbb{A} 48'22	1°11'39
max. Earth dist.	-1310 Nov 20 j 14:54	17° \mathbb{M} 34'02	31.24335 AU	min. Earth dist.	-1303 Jun 05 j 13:57	1° \mathbb{A} 48'44	29.19137 AU
morning rise	-1310 Dec 05 j 21:13	18° \mathbb{M} 08'26		direct	-1303 Aug 24 j 17:24	0° \mathbb{A} 25'18	
retrograde	-1309 Mar 04 j 11:17	20° \mathbb{M} 03'28		evening set	-1303 Nov 20 j 04:36	2° \mathbb{A} 18'52	
opposition	-1309 May 23 j 13:40	18° \mathbb{M} 40'26	1°33'56				
min. Earth dist.	-1309 May 23 j 14:59	18° \mathbb{M} 40'20	29.23918 AU	conjunction	-1303 Dec 05 j 09:34	2° \mathbb{A} 53'11	1°05'10
direct	-1309 Aug 11 j 20:12	17° \mathbb{M} 17'04		minimum elong	-1303 Dec 05 j 09:34	2° \mathbb{A} 53'11	1°05'08
evening set	-1309 Nov 07 j 21:56	19° \mathbb{M} 11'00		max. Earth dist.	-1303 Dec 05 j 14:39	2° \mathbb{A} 53'40	31.18666 AU
				morning rise	-1303 Dec 20 j 15:34	3° \mathbb{A} 27'37	
conjunction	-1309 Nov 23 j 02:10	19° \mathbb{M} 45'11	1°26'22	retrograde	-1302 Mar 19 j 19:27	5° \mathbb{A} 23'36	
minimum elong	-1309 Nov 23 j 02:11	19° \mathbb{M} 45'11	1°26'20	opposition	-1302 Jun 08 j 08:46	4° \mathbb{A} 00'13	1°07'32
max. Earth dist.	-1309 Nov 23 j 01:59	19° \mathbb{M} 45'10	31.23374 AU	min. Earth dist.	-1302 Jun 08 j 03:37	4° \mathbb{A} 00'34	29.18255 AU
morning rise	-1309 Dec 08 j 06:30	20° \mathbb{M} 19'24		direct	-1302 Aug 27 j 03:03	2° \mathbb{A} 37'11	
retrograde	-1308 Mar 05 j 23:03	22° \mathbb{M} 14'32		evening set	-1302 Nov 22 j 13:53	4° \mathbb{A} 30'41	
opposition	-1308 May 25 j 02:23	20° \mathbb{M} 51'26	1°30'33				
min. Earth dist.	-1308 May 25 j 02:00	20° \mathbb{M} 51'28	29.22987 AU	conjunction	-1302 Dec 07 j 19:06	5° \mathbb{A} 05'01	1°01'16
direct	-1308 Aug 13 j 09:18	19° \mathbb{M} 28'05		minimum elong	-1302 Dec 07 j 19:06	5° \mathbb{A} 05'01	1°01'15
evening set	-1308 Nov 09 j 07:03	21° \mathbb{M} 21'58		max. Earth dist.	-1302 Dec 08 j 01:03	5° \mathbb{A} 05'35	31.17734 AU
				morning rise	-1302 Dec 23 j 01:25	5° \mathbb{A} 39'29	
conjunction	-1308 Nov 24 j 11:14	21° \mathbb{M} 56'10	1°23'07	retrograde	-1301 Mar 22 j 07:58	7° \mathbb{A} 35'36	
minimum elong	-1308 Nov 24 j 11:14	21° \mathbb{M} 56'10	1°23'07	opposition	-1301 Jun 10 j 21:55	6° \mathbb{A} 12'08	1°03'19
max. Earth dist.	-1308 Nov 24 j 11:11	21° \mathbb{M} 56'09	31.22496 AU	min. Earth dist.	-1301 Jun 10 j 15:05	6° \mathbb{A} 12'36	29.17245 AU
morning rise	-1308 Dec 09 j 15:56	22° \mathbb{M} 30'25		direct	-1301 Aug 29 j 15:01	4° \mathbb{A} 49'08	
retrograde	-1307 Mar 08 j 10:56	24° \mathbb{M} 25'41		evening set	-1301 Nov 24 j 23:25	6° \mathbb{A} 42'33	
opposition	-1307 May 27 j 15:21	23° \mathbb{M} 02'31	1°27'01				
min. Earth dist.	-1307 May 27 j 14:07	23° \mathbb{M} 02'36	29.22154 AU	conjunction	-1301 Dec 10 j 04:46	7° \mathbb{A} 16'54	0°57'16
direct	-1307 Aug 15 j 19:25	21° \mathbb{M} 39'14		minimum elong	-1301 Dec 10 j 04:46	7° \mathbb{A} 16'54	0°57'15
evening set	-1307 Nov 11 j 15:53	23° \mathbb{M} 33'02		max. Earth dist.	-1301 Dec 10 j 10:36	7° \mathbb{A} 17'27	31.16655 AU
				morning rise	-1301 Dec 25 j 11:31	7° \mathbb{A} 51'25	
conjunction	-1307 Nov 26 j 20:20	24° \mathbb{M} 07'15	1°19'46	retrograde	-1300 Mar 23 j 21:04	9° \mathbb{A} 47'38	
minimum elong	-1307 Nov 26 j 20:21	24° \mathbb{M} 07'15	1°19'44	opposition	-1300 Jun 12 j 11:02	8° \mathbb{A} 24'05	0°59'00
max. Earth dist.	-1307 Nov 26 j 22:28	24° \mathbb{M} 07'27	31.21702 AU	min. Earth dist.	-1300 Jun 12 j 04:31	8° \mathbb{A} 24'31	29.16103 AU
morning rise	-1307 Dec 12 j 01:07	24° \mathbb{M} 41'32		direct	-1300 Aug 31 j 01:49	7° \mathbb{A} 01'03	
retrograde	-1306 Mar 10 j 20:47	26° \mathbb{M} 36'57		evening set	-1300 Nov 26 j 08:47	8° \mathbb{A} 54'24	
opposition	-1306 May 30 j 04:24	25° \mathbb{M} 13'44	1°23'22				
min. Earth dist.	-1306 May 30 j 02:04	25° \mathbb{M} 13'53	29.21382 AU	conjunction	-1300 Dec 11 j 14:31	9° \mathbb{A} 28'47	0°53'12
direct	-1306 Aug 18 j 08:37	23° \mathbb{M} 50'30		minimum elong	-1300 Dec 11 j 14:31	9° \mathbb{A} 28'47	0°53'11
evening set	-1306 Nov 14 j 01:01	25° \mathbb{M} 44'15		max. Earth dist.	-1300 Dec 11 j 21:53	9° \mathbb{A} 29'29	31.15460 AU
				morning rise	-1300 Dec 26 j 21:28	10° \mathbb{A} 03'19	
conjunction	-1306 Nov 29 j 05:28	26° \mathbb{M} 18'29	1°16'17	retrograde	-1299 Mar 26 j 09:16	11° \mathbb{A} 59'38	
minimum elong	-1306 Nov 29 j 05:28	26° \mathbb{M} 18'29	1°16'16	opposition	-1299 Jun 15 j 00:10	10° \mathbb{A} 35'58	0°54'36
max. Earth dist.	-1306 Nov 29 j 07:38	26° \mathbb{M} 18'41	31.20970 AU	min. Earth dist.	-1299 Jun 14 j 16:20	10° \mathbb{A} 36'30	29.14846 AU
morning rise	-1306 Dec 14 j 10:41	26° \mathbb{M} 52'48		direct	-1299 Sep 02 j 14:38	9° \mathbb{A} 12'56	
retrograde	-1305 Mar 13 j 09:44	28° \mathbb{M} 48'21		evening set	-1299 Nov 28 j 18:09	11° \mathbb{A} 06'11	
opposition	-1305 Jun 01 j 17:20	27° \mathbb{M} 25'06	1°19'35				
min. Earth dist.	-1305 Jun 01 j 13:34	27° \mathbb{M} 25'22	29.20663 AU	conjunction	-1299 Dec 13 j 23:56	11° \mathbb{A} 40'35	0°49'03
direct	-1305 Aug 20 j 19:16	26° \mathbb{M} 01'56		minimum elong	-1299 Dec 13 j 23:57	11° \mathbb{A} 40'35	0°49'01
evening set	-1305 Nov 16 j 10:02	27° \mathbb{M} 55'37		max. Earth dist.	-1299 Dec 14 j 07:10	11° \mathbb{A} 41'16	31.14180 AU
				morning rise	-1299 Dec 29 j 07:27	12° \mathbb{A} 15'09	

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Attention, astronomical year style is used: The year -1298 in astronomical counting style is the year 1299 BCE in historical counting style.

retrograde	-1298 Mar 28 j 21:55	14°♄11'34		minimum elong	-1292 Dec 28 j 20:25	27°♄04'02	0°18'17
opposition	-1298 Jun 17 j 13:23	12°♄47'47	0°50'08	max. Earth dist.	-1292 Dec 29 j 10:33	27°♄05'22	31.06998 AU
min. Earth dist.	-1298 Jun 17 j 05:03	12°♄48'21	29.13555 AU	morning rise	-1291 Jan 13 j 06:42	27°♄38'54	
direct	-1298 Sep 05 j 01:16	11°♄24'43		retrograde	-1291 Apr 13 j 11:06	29°♄36'12	
evening set	-1298 Dec 01 j 03:28	13°♄17'53		opposition	-1291 Jul 03 j 08:26	28°♄12'01	0°17'03
				min. Earth dist.	-1291 Jul 02 j 17:46	28°♄13'01	29.06620 AU
conjunction	-1298 Dec 16 j 09:40	13°♄52'19	0°44'49	direct	-1291 Sep 20 j 06:28	26°♄49'09	
minimum elong	-1298 Dec 16 j 09:40	13°♄52'19	0°44'49	evening set	-1291 Dec 15 j 22:22	28°♄42'04	
max. Earth dist.	-1298 Dec 16 j 18:52	13°♄53'11	31.12888 AU				
morning rise	-1298 Dec 31 j 17:23	14°♄26'55		conjunction	-1291 Dec 31 j 06:36	29°♄16'43	0°13'44
retrograde	-1297 Mar 31 j 08:51	16°♄23'25		minimum elong	-1291 Dec 31 j 06:36	29°♄16'43	0°13'43
opposition	-1297 Jun 20 j 02:20	14°♄59'31	0°45'35	behind sun begin	-1291 Dec 31 j 03:03	29°♄16'24	
min. Earth dist.	-1297 Jun 19 j 17:05	15°♄00'09	29.12281 AU	behind sun end	-1291 Dec 31 j 10:09	29°♄17'02	
direct	-1297 Sep 07 j 14:41	13°♄36'27		max. Earth dist.	-1291 Dec 31 j 22:25	29°♄18'12	31.06205 AU
evening set	-1297 Dec 03 j 12:53	15°♄29'32		morning rise	-1290 Jan 15 j 17:09	29°♄51'36	
					-1290 Jan 19 j 12:37	0°♄	
conjunction	-1297 Dec 18 j 19:13	16°♄03'59	0°40'32	retrograde	-1290 Apr 16 j 00:12	1°♄349'04	
minimum elong	-1297 Dec 18 j 19:13	16°♄03'59	0°40'31	opposition	-1290 Jul 05 j 21:33	0°♄24'52	0°12'09
max. Earth dist.	-1297 Dec 19 j 04:28	16°♄04'52	31.11658 AU	min. Earth dist.	-1290 Jul 05 j 05:40	0°♄25'56	29.05796 AU
morning rise	-1296 Jan 03 j 03:29	16°♄38'38			-1290 Jul 21 j 08:13	30°♄	
retrograde	-1296 Apr 01 j 22:18	18°♄35'14		direct	-1290 Sep 22 j 18:08	29°♄02'02	
opposition	-1296 Jun 21 j 15:18	17°♄11'15	0°40'58		-1290 Nov 21 j 11:39	0°♄	
min. Earth dist.	-1296 Jun 21 j 04:33	17°♄11'59	29.11098 AU	evening set	-1290 Dec 18 j 08:33	0°♄54'57	
direct	-1296 Sep 09 j 01:49	15°♄48'10					
evening set	-1296 Dec 04 j 22:15	17°♄41'12		conjunction	-1289 Jan 02 j 16:55	1°♄29'37	0°09'09
				minimum elong	-1289 Jan 02 j 16:56	1°♄29'37	0°09'08
conjunction	-1296 Dec 20 j 04:55	18°♄15'41	0°36'12	behind sun begin	-1289 Jan 02 j 11:28	1°♄29'07	
minimum elong	-1296 Dec 20 j 04:55	18°♄15'41	0°36'10	behind sun end	-1289 Jan 02 j 22:24	1°♄30'07	
max. Earth dist.	-1296 Dec 20 j 15:57	18°♄16'43	31.10519 AU	max. Earth dist.	-1289 Jan 03 j 08:15	1°♄31'04	31.05347 AU
morning rise	-1295 Jan 04 j 13:25	18°♄50'22		morning rise	-1289 Jan 18 j 04:05	2°♄04'34	
retrograde	-1295 Apr 04 j 08:29	20°♄47'05		retrograde	-1289 Apr 18 j 14:13	4°♄02'09	
opposition	-1295 Jun 24 j 04:20	19°♄23'02	0°36'17	opposition	-1289 Jul 08 j 10:38	2°♄37'54	0°07'13
min. Earth dist.	-1295 Jun 23 j 17:11	19°♄23'48	29.10017 AU	min. Earth dist.	-1289 Jul 07 j 18:44	2°♄38'59	29.04900 AU
direct	-1295 Sep 11 j 13:29	17°♄59'59		direct	-1289 Sep 25 j 04:10	1°♄15'05	
evening set	-1295 Dec 07 j 07:43	19°♄52'58		evening set	-1289 Dec 20 j 18:40	3°♄07'59	
conjunction	-1295 Dec 22 j 14:38	20°♄27'28	0°31'47	conjunction	-1288 Jan 05 j 03:34	3°♄42'42	0°04'34
minimum elong	-1295 Dec 22 j 14:38	20°♄27'28	0°31'46	minimum elong	-1288 Jan 05 j 03:33	3°♄42'42	0°04'32
max. Earth dist.	-1295 Dec 23 j 02:24	20°♄28'35	31.09513 AU	behind sun begin	-1288 Jan 04 j 21:15	3°♄42'08	
morning rise	-1294 Jan 06 j 23:36	21°♄02'12		behind sun end	-1288 Jan 05 j 09:51	3°♄43'16	
retrograde	-1294 Apr 06 j 20:44	22°♄59'03		max. Earth dist.	-1288 Jan 05 j 20:15	3°♄44'16	31.04387 AU
opposition	-1294 Jun 26 j 17:17	21°♄34'57	0°31'33	morning rise	-1288 Jan 20 j 14:58	4°♄17'41	
min. Earth dist.	-1294 Jun 26 j 04:10	21°♄35'51	29.09065 AU	retrograde	-1288 Apr 20 j 03:13	6°♄15'22	
direct	-1294 Sep 14 j 00:06	20°♄11'56		opposition	-1288 Jul 09 j 23:46	4°♄51'04	0°02'17
evening set	-1294 Dec 09 j 17:12	22°♄04'53		min. Earth dist.	-1288 Jul 09 j 07:28	4°♄52'11	29.03876 AU
				direct	-1288 Sep 26 j 17:47	3°♄28'16	
conjunction	-1294 Dec 25 j 00:24	22°♄39'26	0°27'20	evening set	-1288 Dec 22 j 04:54	5°♄21'07	
minimum elong	-1294 Dec 25 j 00:24	22°♄39'26	0°27'19	desc. node	-1288 Dec 26 j 20:48	5°♄31'32	
max. Earth dist.	-1294 Dec 25 j 13:14	22°♄40'38	31.08607 AU				
morning rise	-1293 Jan 09 j 09:49	23°♄14'12		conjunction	-1287 Jan 06 j 13:59	5°♄55'52	-0°00'09
retrograde	-1293 Apr 09 j 08:33	25°♄11'13		minimum elong	-1287 Jan 06 j 13:59	5°♄55'52	0°00'10
opposition	-1293 Jun 29 j 06:25	23°♄47'04	0°26'46	behind sun begin	-1287 Jan 06 j 07:39	5°♄55'17	
min. Earth dist.	-1293 Jun 28 j 17:25	23°♄47'57	29.08206 AU	behind sun end	-1287 Jan 06 j 20:19	5°♄56'26	
direct	-1293 Sep 16 j 09:26	22°♄24'06		max. Earth dist.	-1287 Jan 07 j 06:09	5°♄57'23	31.03312 AU
evening set	-1293 Dec 12 j 02:49	24°♄17'02		morning rise	-1287 Jan 22 j 01:58	6°♄30'53	
				retrograde	-1287 Apr 22 j 17:51	8°♄28'40	
conjunction	-1293 Dec 27 j 10:25	24°♄51'37	0°22'50	opposition	-1287 Jul 12 j 12:54	7°♄04'17	-0°02'40
minimum elong	-1293 Dec 27 j 10:25	24°♄51'37	0°22'49	min. Earth dist.	-1287 Jul 11 j 19:46	7°♄05'27	29.02750 AU
max. Earth dist.	-1293 Dec 28 j 00:27	24°♄52'56	31.07789 AU	direct	-1287 Sep 29 j 05:26	5°♄41'27	
morning rise	-1292 Jan 11 j 20:10	25°♄26'25		evening set	-1287 Dec 24 j 15:08	7°♄34'16	
retrograde	-1292 Apr 10 j 21:20	27°♄23'34					
opposition	-1292 Jun 30 j 19:14	25°♄59'25	0°21'56	conjunction	-1286 Jan 09 j 00:40	8°♄09'02	-0°04'50
min. Earth dist.	-1292 Jun 30 j 04:23	26°♄00'26	29.07403 AU	minimum elong	-1286 Jan 09 j 00:39	8°♄09'02	0°04'51
direct	-1292 Sep 17 j 20:44	24°♄36'30		behind sun begin	-1286 Jan 08 j 18:23	8°♄08'28	
evening set	-1292 Dec 13 j 12:39	26°♄29'25		behind sun end	-1286 Jan 09 j 06:55	8°♄09'36	
				max. Earth dist.	-1286 Jan 09 j 17:59	8°♄10'40	31.02138 AU
conjunction	-1292 Dec 28 j 20:25	27°♄04'02	0°18'18	morning rise	-1286 Jan 24 j 13:00	8°♄44'05	

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Attention, astronomical year style is used: The year -1286 in astronomical counting style is the year 1287 BCE in historical counting style.

retrograde	-1286 Apr 25 j 04:42	10° $\overline{3}$ 41'58		direct	-1280 Oct 14 j 10:28	21° $\overline{3}$ 13'24	
min. Earth dist.	-1286 Jul 14 j 09:03	9° $\overline{3}$ 18'37	29.01550 AU	evening set	-1279 Jan 08 j 16:25	23° $\overline{3}$ 06'04	
opposition	-1286 Jul 15 j 02:00	9° $\overline{3}$ 17'28	-0°07'36				
direct	-1286 Oct 01 j 17:34	7° $\overline{3}$ 54'36		conjunction	-1279 Jan 24 j 04:31	23° $\overline{3}$ 41'02	-0°36'35
evening set	-1286 Dec 27 j 01:23	9° $\overline{3}$ 47'21		minimum elong	-1279 Jan 24 j 04:31	23° $\overline{3}$ 41'02	0°36'36
				max. Earth dist.	-1279 Jan 25 j 03:09	23° $\overline{3}$ 43'11	30.95370 AU
conjunction	-1285 Jan 11 j 11:16	10° $\overline{3}$ 22'09	-0°09'25	morning rise	-1279 Feb 08 j 19:54	24° $\overline{3}$ 16'20	
minimum elong	-1285 Jan 11 j 11:16	10° $\overline{3}$ 22'09	0°09'26	retrograde	-1279 May 10 j 22:21	26° $\overline{3}$ 14'49	
behind sun begin	-1285 Jan 11 j 05:52	10° $\overline{3}$ 21'40		opposition	-1279 Jul 30 j 19:52	24° $\overline{3}$ 49'55	-0°41'31
behind sun end	-1285 Jan 11 j 16:39	10° $\overline{3}$ 22'38		min. Earth dist.	-1279 Jul 29 j 22:10	24° $\overline{3}$ 51'24	28.95083 AU
max. Earth dist.	-1285 Jan 12 j 04:57	10° $\overline{3}$ 23'49	31.00937 AU	direct	-1279 Oct 16 j 23:01	23° $\overline{3}$ 27'00	
morning rise	-1285 Jan 27 j 00:07	10° $\overline{3}$ 57'15		evening set	-1278 Jan 11 j 03:28	25° $\overline{3}$ 19'42	
retrograde	-1285 Apr 27 j 17:31	12° $\overline{3}$ 55'11					
opposition	-1285 Jul 17 j 14:55	11° $\overline{3}$ 30'35	-0°12'32	conjunction	-1278 Jan 26 j 15:50	25° $\overline{3}$ 54'42	-0°40'59
min. Earth dist.	-1285 Jul 16 j 20:32	11° $\overline{3}$ 31'51	29.00351 AU	minimum elong	-1278 Jan 26 j 15:49	25° $\overline{3}$ 54'42	0°41'01
direct	-1285 Oct 04 j 05:38	10° $\overline{3}$ 07'41		max. Earth dist.	-1278 Jan 27 j 13:58	25° $\overline{3}$ 56'47	30.94733 AU
evening set	-1285 Dec 29 j 11:47	12° $\overline{3}$ 00'23		morning rise	-1278 Feb 11 j 07:47	26° $\overline{3}$ 30'01	
				retrograde	-1278 May 13 j 13:34	28° $\overline{3}$ 28'38	
conjunction	-1284 Jan 13 j 21:56	12° $\overline{3}$ 35'12	-0°14'00	min. Earth dist.	-1278 Aug 01 j 10:22	27° $\overline{3}$ 05'14	28.94451 AU
minimum elong	-1284 Jan 13 j 21:57	12° $\overline{3}$ 35'12	0°14'02	opposition	-1278 Aug 02 j 08:39	27° $\overline{3}$ 03'42	-0°46'11
behind sun begin	-1284 Jan 13 j 18:38	12° $\overline{3}$ 34'54		direct	-1278 Oct 19 j 09:50	25° $\overline{3}$ 40'48	
behind sun end	-1284 Jan 14 j 01:15	12° $\overline{3}$ 35'30		evening set	-1277 Jan 13 j 14:36	27° $\overline{3}$ 33'33	
max. Earth dist.	-1284 Jan 14 j 16:17	12° $\overline{3}$ 36'56	30.99745 AU				
morning rise	-1284 Jan 29 j 11:15	13° $\overline{3}$ 10'20		conjunction	-1277 Jan 29 j 03:25	28° $\overline{3}$ 08'35	-0°45'20
retrograde	-1284 Apr 29 j 05:25	15° $\overline{3}$ 08'20		minimum elong	-1277 Jan 29 j 03:25	28° $\overline{3}$ 08'35	0°45'21
min. Earth dist.	-1284 Jul 18 j 09:47	13° $\overline{3}$ 44'53	28.99203 AU	max. Earth dist.	-1277 Jan 30 j 02:26	28° $\overline{3}$ 10'45	30.94068 AU
opposition	-1284 Jul 19 j 03:47	13° $\overline{3}$ 43'39	-0°17'26	morning rise	-1277 Feb 13 j 19:44	28° $\overline{3}$ 43'57	
direct	-1284 Oct 05 j 16:12	12° $\overline{3}$ 20'43			-1277 Mar 24 j 23:00	0° \approx	
evening set	-1284 Dec 30 j 22:07	14° $\overline{3}$ 13'22		retrograde	-1277 May 16 j 02:11	0° \approx 42'39	
					-1277 Jul 09 j 02:58	30° \overline{R} $\overline{3}$	
conjunction	-1283 Jan 15 j 08:44	14° $\overline{3}$ 48'13	-0°18'35	opposition	-1277 Aug 04 j 21:31	29° $\overline{3}$ 17'43	-0°50'48
minimum elong	-1283 Jan 15 j 08:44	14° $\overline{3}$ 48'13	0°18'36	min. Earth dist.	-1277 Aug 03 j 23:47	29° $\overline{3}$ 19'13	28.93758 AU
max. Earth dist.	-1283 Jan 16 j 04:16	14° $\overline{3}$ 50'04	30.98649 AU	direct	-1277 Oct 21 j 21:43	27° $\overline{3}$ 54'51	
morning rise	-1283 Jan 30 j 22:23	15° $\overline{3}$ 23'23		evening set	-1276 Jan 16 j 01:58	29° $\overline{3}$ 47'37	
retrograde	-1283 May 01 j 17:24	17° $\overline{3}$ 21'28			-1276 Jan 21 j 15:07	0° \approx	
opposition	-1283 Jul 21 j 16:37	15° $\overline{3}$ 56'42	-0°22'19				
min. Earth dist.	-1283 Jul 20 j 20:44	15° $\overline{3}$ 58'04	28.98162 AU	conjunction	-1276 Jan 31 j 15:08	0° \approx 22'41	-0°49'36
direct	-1283 Oct 08 j 04:00	14° $\overline{3}$ 33'44		minimum elong	-1276 Jan 31 j 15:08	0° \approx 22'40	0°49'37
evening set	-1282 Jan 02 j 08:33	16° $\overline{3}$ 26'23		max. Earth dist.	-1276 Feb 01 j 13:56	0° \approx 24'50	30.93333 AU
				morning rise	-1276 Feb 16 j 07:53	0° \approx 58'05	
conjunction	-1282 Jan 17 j 19:23	17° $\overline{3}$ 01'15	-0°23'08	retrograde	-1276 May 17 j 16:54	2° \approx 56'52	
minimum elong	-1282 Jan 17 j 19:23	17° $\overline{3}$ 01'15	0°23'09	min. Earth dist.	-1276 Aug 05 j 11:39	1° \approx 33'29	28.92974 AU
max. Earth dist.	-1282 Jan 18 j 14:59	17° $\overline{3}$ 03'06	30.97661 AU	opposition	-1276 Aug 06 j 10:13	1° \approx 31'55	-0°55'20
morning rise	-1282 Feb 02 j 09:37	17° $\overline{3}$ 36'27		direct	-1276 Oct 23 j 09:54	0° \approx 09'02	
retrograde	-1282 May 04 j 05:59	19° $\overline{3}$ 34'38		evening set	-1275 Jan 17 j 13:28	2° \approx 01'50	
min. Earth dist.	-1282 Jul 23 j 09:50	18° $\overline{3}$ 11'09	28.97247 AU				
opposition	-1282 Jul 24 j 05:34	18° $\overline{3}$ 09'48	-0°27'11	conjunction	-1275 Feb 02 j 02:58	2° \approx 36'56	-0°53'48
direct	-1282 Oct 10 j 13:29	16° $\overline{3}$ 46'50		minimum elong	-1275 Feb 02 j 02:58	2° \approx 36'56	0°53'49
evening set	-1281 Jan 04 j 19:02	18° $\overline{3}$ 39'28		max. Earth dist.	-1275 Feb 03 j 01:43	2° \approx 39'05	30.92481 AU
				morning rise	-1275 Feb 17 j 20:11	3° \approx 12'22	
conjunction	-1281 Jan 20 j 06:26	19° $\overline{3}$ 14'22	-0°27'39	retrograde	-1275 May 20 j 05:57	5° \approx 11'14	
minimum elong	-1281 Jan 20 j 06:26	19° $\overline{3}$ 14'22	0°27'40	opposition	-1275 Aug 08 j 23:10	3° \approx 46'14	-0°59'47
max. Earth dist.	-1281 Jan 21 j 03:46	19° $\overline{3}$ 16'23	30.96803 AU	min. Earth dist.	-1275 Aug 08 j 01:36	3° \approx 47'44	28.92075 AU
morning rise	-1281 Feb 04 j 20:57	19° $\overline{3}$ 49'35		direct	-1275 Oct 25 j 20:53	2° \approx 23'20	
retrograde	-1281 May 06 j 18:33	21° $\overline{3}$ 47'52		evening set	-1274 Jan 20 j 00:48	4° \approx 16'08	
opposition	-1281 Jul 26 j 18:12	20° $\overline{3}$ 23'00	-0°32'00				
min. Earth dist.	-1281 Jul 25 j 21:08	20° $\overline{3}$ 24'27	28.96442 AU	conjunction	-1274 Feb 04 j 14:51	4° \approx 51'15	-0°57'55
direct	-1281 Oct 13 j 00:37	19° $\overline{3}$ 00'02		minimum elong	-1274 Feb 04 j 14:51	4° \approx 51'15	0°57'56
evening set	-1280 Jan 07 j 05:49	20° $\overline{3}$ 52'41		max. Earth dist.	-1274 Feb 05 j 14:04	4° \approx 53'27	30.91535 AU
				morning rise	-1274 Feb 20 j 08:27	5° \approx 26'44	
conjunction	-1280 Jan 22 j 17:25	21° $\overline{3}$ 27'36	-0°32'09	retrograde	-1274 May 22 j 18:23	7° \approx 25'39	
minimum elong	-1280 Jan 22 j 17:24	21° $\overline{3}$ 27'36	0°32'10	opposition	-1274 Aug 11 j 11:52	6° \approx 00'35	-1°04'08
max. Earth dist.	-1280 Jan 23 j 14:22	21° $\overline{3}$ 29'35	30.96049 AU	min. Earth dist.	-1274 Aug 10 j 13:15	6° \approx 02'09	28.91081 AU
morning rise	-1280 Feb 07 j 08:32	22° $\overline{3}$ 02'52		direct	-1274 Oct 28 j 09:15	4° \approx 37'39	
retrograde	-1280 May 08 j 08:58	24° $\overline{3}$ 01'15		evening set	-1273 Jan 22 j 12:29	6° \approx 30'27	
min. Earth dist.	-1280 Jul 27 j 09:51	22° $\overline{3}$ 37'49	28.95740 AU				
opposition	-1280 Jul 28 j 07:02	22° $\overline{3}$ 36'21	-0°36'47	conjunction	-1273 Feb 07 j 02:47	7° \approx 05'35	-1°01'57

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Attention, astronomical year style is used: The year -1273 in astronomical counting style is the year 1274 BCE in historical counting style.

minimum elong	-1273 Feb 07 j 02:47	7°05'35	1°01'58	min. Earth dist.	-1267 Aug 26 j 02:38	21°42'47	28.85575 AU
max. Earth dist.	-1273 Feb 08 j 01:20	7°07'43	30.90505 AU	opposition	-1267 Aug 27 j 02:45	21°41'06	-1°31'37
morning rise	-1273 Feb 22 j 20:57	7°41'06		direct	-1267 Nov 12 j 15:55	20°17'54	
retrograde	-1273 May 25 j 06:41	9°40'03		evening set	-1266 Feb 06 j 23:01	22°10'54	
min. Earth dist.	-1273 Aug 13 j 02:42	8°16'26	28.90048 AU				
opposition	-1273 Aug 14 j 00:27	8°14'55	-1°08'24	conjunction	-1266 Feb 22 j 16:10	22°46'14	-1°27'16
direct	-1273 Oct 30 j 19:01	6°51'55		minimum elong	-1266 Feb 22 j 16:10	22°46'14	1°27'16
evening set	-1272 Jan 24 j 24:00	8°44'43		max. Earth dist.	-1266 Feb 23 j 17:14	22°48'36	30.85275 AU
				morning rise	-1266 Mar 10 j 13:12	23°21'56	
conjunction	-1272 Feb 09 j 14:52	9°19'54	-1°05'54	retrograde	-1266 Jun 10 j 06:01	25°21'11	
minimum elong	-1272 Feb 09 j 14:51	9°19'54	1°05'55	opposition	-1266 Aug 29 j 15:08	23°55'49	-1°35'02
max. Earth dist.	-1272 Feb 10 j 14:38	9°22'09	30.89470 AU	min. Earth dist.	-1266 Aug 28 j 16:06	23°57'25	28.85185 AU
morning rise	-1272 Feb 25 j 09:17	9°55'25		direct	-1266 Nov 15 j 03:11	22°32'37	
retrograde	-1272 May 26 j 19:06	11°54'25		evening set	-1265 Feb 09 j 11:20	24°25'41	
opposition	-1272 Aug 15 j 12:55	10°29'13	-1°12'34				
min. Earth dist.	-1272 Aug 14 j 14:14	10°30'48	28.89030 AU	conjunction	-1265 Feb 25 j 05:00	25°01'03	-1°30'24
direct	-1272 Nov 01 j 06:19	9°06'10		minimum elong	-1265 Feb 25 j 05:00	25°01'02	1°30'24
evening set	-1271 Jan 26 j 11:35	10°58'59		max. Earth dist.	-1265 Feb 26 j 06:21	25°03'26	30.84898 AU
				morning rise	-1265 Mar 13 j 02:20	25°36'46	
conjunction	-1271 Feb 11 j 02:40	11°34'10	-1°09'44	retrograde	-1265 Jun 12 j 19:34	27°36'02	
minimum elong	-1271 Feb 11 j 02:39	11°34'10	1°09'45	min. Earth dist.	-1265 Aug 31 j 03:22	26°12'21	28.84806 AU
max. Earth dist.	-1271 Feb 12 j 01:48	11°36'21	30.88482 AU	opposition	-1265 Sep 01 j 03:09	26°10'41	-1°38'19
morning rise	-1271 Feb 26 j 21:40	12°09'43		direct	-1265 Nov 17 j 15:22	24°47'29	
retrograde	-1271 May 29 j 08:45	14°08'46		evening set	-1264 Feb 11 j 23:56	26°40'37	
min. Earth dist.	-1271 Aug 17 j 02:58	12°45'04	28.88101 AU				
opposition	-1271 Aug 18 j 01:30	12°43'30	-1°16'37	conjunction	-1264 Feb 27 j 17:50	27°16'00	-1°33'23
direct	-1271 Nov 03 j 16:40	11°20'23		minimum elong	-1264 Feb 27 j 17:50	27°15'59	1°33'24
evening set	-1270 Jan 28 j 23:14	13°13'13		max. Earth dist.	-1264 Feb 28 j 18:11	27°18'17	30.84492 AU
				morning rise	-1264 Mar 14 j 15:40	27°51'44	
conjunction	-1270 Feb 13 j 14:52	13°48'26	-1°13'28	retrograde	-1264 Jun 14 j 09:05	29°51'03	
minimum elong	-1270 Feb 13 j 14:52	13°48'26	1°13'29	opposition	-1264 Sep 02 j 15:30	28°25'41	-1°41'26
max. Earth dist.	-1270 Feb 14 j 15:27	13°50'46	30.87595 AU	min. Earth dist.	-1264 Sep 01 j 16:56	28°27'16	28.84384 AU
morning rise	-1270 Mar 01 j 10:08	14°24'01		direct	-1264 Nov 19 j 01:36	27°02'28	
	-1270 Mar 18 j 09:20	15°		evening set	-1263 Feb 13 j 12:22	28°55'38	
retrograde	-1270 May 31 j 21:35	16°23'06					
	-1270 Aug 19 j 05:56	15°		conjunction	-1263 Mar 01 j 06:52	29°31'03	-1°36'15
opposition	-1270 Aug 20 j 13:50	14°57'47	-1°20'33	minimum elong	-1263 Mar 01 j 06:51	29°31'03	1°36'15
min. Earth dist.	-1270 Aug 19 j 14:54	14°59'23	28.87278 AU	max. Earth dist.	-1263 Mar 02 j 07:49	29°33'24	30.84027 AU
direct	-1270 Nov 06 j 04:55	13°34'37			-1263 Mar 14 j 03:12	0°	
	-1269 Jan 18 j 15:08	15°		morning rise	-1263 Mar 17 j 04:55	0°06'49	
evening set	-1269 Jan 31 j 11:05	15°27'30		retrograde	-1263 Jun 16 j 21:55	2°06'08	
				min. Earth dist.	-1263 Sep 04 j 04:46	0°42'22	28.83872 AU
conjunction	-1269 Feb 16 j 03:02	16°02'44	-1°17'06	opposition	-1263 Sep 05 j 03:42	0°40'45	-1°44'25
minimum elong	-1269 Feb 16 j 03:01	16°02'44	1°17'07		-1263 Sep 30 j 11:12	30°	
max. Earth dist.	-1269 Feb 17 j 02:59	16°05'00	30.86839 AU	direct	-1263 Nov 21 j 13:36	29°17'29	
morning rise	-1269 Mar 03 j 22:52	16°38'20			-1262 Jan 10 j 20:25	0°	
retrograde	-1269 Jun 03 j 12:11	18°37'28		evening set	-1262 Feb 16 j 01:12	1°10'42	
min. Earth dist.	-1269 Aug 22 j 02:41	17°13'45	28.86595 AU				
opposition	-1269 Aug 23 j 02:11	17°12'07	-1°24'22	conjunction	-1262 Mar 03 j 19:57	1°46'08	-1°38'57
direct	-1269 Nov 08 j 15:23	15°48'55		minimum elong	-1262 Mar 03 j 19:57	1°46'08	1°38'57
evening set	-1268 Feb 02 j 22:56	17°41'50		max. Earth dist.	-1262 Mar 04 j 19:27	1°48'21	30.83471 AU
				morning rise	-1262 Mar 19 j 18:36	2°21'55	
conjunction	-1268 Feb 18 j 15:19	18°17'07	-1°20'36	retrograde	-1262 Jun 19 j 10:50	4°21'14	
minimum elong	-1268 Feb 18 j 15:18	18°17'07	1°20'37	opposition	-1262 Sep 07 j 15:51	2°55'49	-1°47'14
max. Earth dist.	-1268 Feb 19 j 16:16	18°19'28	30.86202 AU	min. Earth dist.	-1262 Sep 06 j 17:52	2°57'21	28.83285 AU
morning rise	-1268 Mar 05 j 11:26	18°52'45		direct	-1262 Nov 24 j 00:05	1°32'29	
retrograde	-1268 Jun 05 j 01:10	20°51'55		evening set	-1261 Feb 18 j 13:56	3°25'43	
opposition	-1268 Aug 24 j 14:30	19°26'32	-1°28'03				
min. Earth dist.	-1268 Aug 23 j 15:19	19°28'09	28.86025 AU	conjunction	-1261 Mar 06 j 09:17	4°01'11	-1°41'31
direct	-1268 Nov 10 j 03:17	18°03'21		minimum elong	-1261 Mar 06 j 09:17	4°01'11	1°41'32
evening set	-1267 Feb 04 j 10:54	19°56'18		max. Earth dist.	-1261 Mar 07 j 09:28	4°03'27	30.82844 AU
				morning rise	-1261 Mar 22 j 08:10	4°36'59	
conjunction	-1267 Feb 20 j 03:42	20°31'36	-1°24'00	retrograde	-1261 Jun 21 j 22:43	6°36'16	
minimum elong	-1267 Feb 20 j 03:41	20°31'36	1°24'01	min. Earth dist.	-1261 Sep 09 j 06:10	5°12'20	28.82635 AU
max. Earth dist.	-1267 Feb 21 j 04:35	20°33'57	30.85699 AU	opposition	-1261 Sep 10 j 03:53	5°10'48	-1°49'53
morning rise	-1267 Mar 08 j 00:16	21°07'16		direct	-1261 Nov 26 j 12:10	3°47'24	
retrograde	-1267 Jun 07 j 16:56	23°06'28		evening set	-1260 Feb 21 j 02:43	5°40'40	

Planetary Phenomena of Neptune from -1400 through -898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 12

Attention, astronomical year style is used: The year -1260 in astronomical counting style is the year 1261 BCE in historical counting style.

conjunction	-1260 Mar 07 j 22:21	6° ✕ 16'08	-1°43'55	direct	-1254 Dec 11 j 22:01	19° ✕ 31'18	
minimum elong	-1260 Mar 07 j 22:21	6° ✕ 16'08	1°43'55	evening set	-1253 Mar 08 j 21:50	21° ✕ 25'00	
max. Earth dist.	-1260 Mar 08 j 21:17	6° ✕ 18'18	30.82193 AU				
morning rise	-1260 Mar 23 j 21:44	6° ✕ 51'58		conjunction	-1253 Mar 24 j 20:27	22° ✕ 00'39	-1°56'08
retrograde	-1260 Jun 23 j 12:54	8° ✕ 51'12		minimum elong	-1253 Mar 24 j 20:27	22° ✕ 00'39	1°56'09
opposition	-1260 Sep 11 j 15:49	7° ✕ 25'42	-1°52'22	max. Earth dist.	-1253 Mar 25 j 18:10	22° ✕ 02'42	30.80507 AU
min. Earth dist.	-1260 Sep 10 j 18:06	7° ✕ 27'14	28.82003 AU	morning rise	-1253 Apr 09 j 22:27	22° ✕ 36'38	
direct	-1260 Nov 27 j 22:46	6° ✕ 02'12		retrograde	-1253 Jul 10 j 11:01	24° ✕ 35'40	
evening set	-1259 Feb 22 j 15:30	7° ✕ 55'31		min. Earth dist.	-1253 Sep 27 j 05:46	23° ✕ 11'40	28.80738 AU
				opposition	-1253 Sep 28 j 01:35	23° ✕ 10'16	-2°04'48
				direct	-1253 Dec 14 j 08:09	21° ✕ 46'37	
				evening set	-1252 Mar 10 j 11:09	23° ✕ 40'24	
conjunction	-1259 Mar 10 j 11:38	8° ✕ 31'01	-1°46'10				
minimum elong	-1259 Mar 10 j 11:38	8° ✕ 31'01	1°46'11				
max. Earth dist.	-1259 Mar 11 j 11:10	8° ✕ 33'14	30.81575 AU				
morning rise	-1259 Mar 26 j 11:18	9° ✕ 06'51		conjunction	-1252 Mar 26 j 10:19	24° ✕ 16'05	-1°57'12
retrograde	-1259 Jun 26 j 01:19	11° ✕ 06'04		minimum elong	-1252 Mar 26 j 10:19	24° ✕ 16'05	1°57'11
min. Earth dist.	-1259 Sep 13 j 06:39	9° ✕ 42'00	28.81430 AU	max. Earth dist.	-1252 Mar 27 j 08:40	24° ✕ 18'11	30.80673 AU
opposition	-1259 Sep 14 j 03:41	9° ✕ 40'31	-1°54'41	morning rise	-1252 Apr 11 j 12:28	24° ✕ 52'04	
direct	-1259 Nov 30 j 10:57	8° ✕ 16'57		retrograde	-1252 Jul 11 j 22:59	26° ✕ 51'06	
evening set	-1258 Feb 25 j 04:20	10° ✕ 10'18		opposition	-1252 Sep 29 j 13:09	25° ✕ 25'45	-2°05'49
				min. Earth dist.	-1252 Sep 28 j 17:50	25° ✕ 27'07	28.80893 AU
				direct	-1252 Dec 15 j 19:28	24° ✕ 02'05	
				evening set	-1251 Mar 13 j 00:50	25° ✕ 55'58	
conjunction	-1258 Mar 13 j 00:54	10° ✕ 45'49	-1°48'15				
minimum elong	-1258 Mar 13 j 00:54	10° ✕ 45'49	1°48'15				
max. Earth dist.	-1258 Mar 13 j 23:55	10° ✕ 47'59	30.81059 AU				
morning rise	-1258 Mar 29 j 01:01	11° ✕ 21'41		conjunction	-1251 Mar 29 j 00:19	26° ✕ 31'41	-1°58'04
retrograde	-1258 Jun 28 j 16:29	13° ✕ 20'51		minimum elong	-1251 Mar 29 j 00:18	26° ✕ 31'40	1°58'04
opposition	-1258 Sep 16 j 15:25	11° ✕ 55'17	-1°56'50	max. Earth dist.	-1251 Mar 29 j 20:49	26° ✕ 33'36	30.80813 AU
min. Earth dist.	-1258 Sep 15 j 17:44	11° ✕ 56'48	28.80976 AU	morning rise	-1251 Apr 14 j 02:57	27° ✕ 07'41	
direct	-1258 Dec 02 j 23:45	10° ✕ 31'40		retrograde	-1251 Jul 14 j 13:20	29° ✕ 06'39	
evening set	-1257 Feb 27 j 17:20	12° ✕ 25'04		min. Earth dist.	-1251 Oct 01 j 05:57	27° ✕ 42'41	28.81008 AU
				opposition	-1251 Oct 02 j 00:43	27° ✕ 41'22	-2°06'39
				direct	-1251 Dec 18 j 05:27	26° ✕ 17'39	
				evening set	-1250 Mar 15 j 14:31	28° ✕ 11'37	
conjunction	-1257 Mar 15 j 14:17	13° ✕ 00'37	-1°50'10				
minimum elong	-1257 Mar 15 j 14:16	13° ✕ 00'37	1°50'10				
max. Earth dist.	-1257 Mar 16 j 13:17	13° ✕ 02'47	30.80656 AU				
morning rise	-1257 Mar 31 j 14:45	13° ✕ 36'29		conjunction	-1250 Mar 31 j 14:32	28° ✕ 47'20	-1°58'45
retrograde	-1257 Jul 01 j 04:56	15° ✕ 35'38		minimum elong	-1250 Mar 31 j 14:32	28° ✕ 47'20	1°58'45
min. Earth dist.	-1257 Sep 18 j 06:32	14° ✕ 11'30	28.80654 AU	max. Earth dist.	-1250 Apr 01 j 10:57	28° ✕ 49'15	30.80876 AU
opposition	-1257 Sep 19 j 03:06	14° ✕ 10'03	-1°58'47	morning rise	-1250 Apr 16 j 17:24	29° ✕ 23'22	
direct	-1257 Dec 05 j 11:07	12° ✕ 46'24			-1250 May 04 j 03:08	0° ∇	
evening set	-1256 Mar 01 j 06:15	14° ✕ 39'52		retrograde	-1250 Jul 17 j 00:56	1° ∇ 22'16	
					-1250 Oct 02 j 17:48	30° ℞ ✕	
conjunction	-1256 Mar 17 j 03:43	15° ✕ 15'26	-1°51'55	opposition	-1250 Oct 04 j 12:19	29° ✕ 56'59	-2°07'18
minimum elong	-1256 Mar 17 j 03:43	15° ✕ 15'26	1°51'55	min. Earth dist.	-1250 Oct 03 j 18:50	29° ✕ 58'14	28.81024 AU
max. Earth dist.	-1256 Mar 18 j 02:56	15° ✕ 17'37	30.80417 AU	direct	-1250 Dec 20 j 17:53	28° ✕ 33'14	
morning rise	-1256 Apr 02 j 04:29	15° ✕ 51'20			-1249 Mar 05 j 09:06	0° ∇	
retrograde	-1256 Jul 02 j 19:14	17° ✕ 50'26		evening set	-1249 Mar 18 j 04:20	0° ∇ 27'15	
opposition	-1256 Sep 20 j 14:43	16° ✕ 24'53	-2°00'34				
min. Earth dist.	-1256 Sep 19 j 17:12	16° ✕ 26'24	28.80491 AU	conjunction	-1249 Apr 03 j 04:43	1° ∇ 03'00	-1°59'16
direct	-1256 Dec 06 j 23:35	15° ✕ 01'13		minimum elong	-1249 Apr 03 j 04:43	1° ∇ 03'00	1°59'16
evening set	-1255 Mar 03 j 19:14	16° ✕ 54'45		max. Earth dist.	-1249 Apr 03 j 23:40	1° ∇ 04'46	30.80862 AU
				morning rise	-1249 Apr 19 j 07:59	1° ∇ 39'01	
conjunction	-1255 Mar 19 j 17:00	17° ✕ 30'21	-1°53'30	retrograde	-1249 Jul 19 j 15:12	3° ∇ 37'50	
minimum elong	-1255 Mar 19 j 17:00	17° ✕ 30'21	1°53'30	opposition	-1249 Oct 06 j 23:39	2° ∇ 12'33	-2°07'44
max. Earth dist.	-1255 Mar 20 j 15:29	17° ✕ 32'28	30.80323 AU	min. Earth dist.	-1249 Oct 06 j 06:12	2° ∇ 13'47	28.80974 AU
morning rise	-1255 Apr 04 j 18:16	18° ✕ 06'16		direct	-1249 Dec 23 j 06:47	0° ∇ 48'44	
retrograde	-1255 Jul 05 j 09:16	20° ✕ 05'22		evening set	-1248 Mar 19 j 18:06	2° ∇ 42'47	
min. Earth dist.	-1255 Sep 22 j 06:02	18° ✕ 41'17	28.80477 AU				
opposition	-1255 Sep 23 j 02:29	18° ✕ 39'50	-2°02'10	conjunction	-1248 Apr 04 j 18:54	3° ∇ 18'33	-1°59'36
direct	-1255 Dec 09 j 10:06	17° ✕ 16'10		minimum elong	-1248 Apr 04 j 18:54	3° ∇ 18'33	1°59'35
evening set	-1254 Mar 06 j 08:22	19° ✕ 09'47		max. Earth dist.	-1248 Apr 05 j 13:20	3° ∇ 20'17	30.80785 AU
				morning rise	-1248 Apr 20 j 22:28	3° ∇ 54'36	
conjunction	-1254 Mar 22 j 06:44	19° ✕ 45'25	-1°54'55	retrograde	-1248 Jul 21 j 03:13	5° ∇ 53'17	
minimum elong	-1254 Mar 22 j 06:44	19° ✕ 45'25	1°54'54	opposition	-1248 Oct 08 j 11:05	4° ∇ 28'00	-2°08'00
max. Earth dist.	-1254 Mar 23 j 05:53	19° ✕ 47'36	30.80373 AU	min. Earth dist.	-1248 Oct 07 j 19:16	4° ∇ 29'08	28.80892 AU
morning rise	-1254 Apr 07 j 08:14	20° ✕ 21'21		direct	-1248 Dec 24 j 18:16	3° ∇ 04'06	
retrograde	-1254 Jul 07 j 22:10	22° ✕ 20'25		evening set	-1247 Mar 22 j 07:40	4° ∇ 58'11	
opposition	-1254 Sep 25 j 13:55	20° ✕ 54'58	-2°03'35				
min. Earth dist.	-1254 Sep 24 j 17:05	20° ✕ 56'26	28.80571 AU	conjunction	-1247 Apr 07 j 09:00	5° ∇ 33'58	-1°59'45

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Attention, astronomical year style is used: The year -1247 in astronomical counting style is the year 1248 BCE in historical counting style.

minimum elong	-1247 Apr 07 j 09:00	5°♈33'58	1°59'45	evening set	-1240 Apr 07 j 08:54	20°♈43'31	
max. Earth dist.	-1247 Apr 08 j 02:57	5°♈35'39	30.80718 AU				
morning rise	-1247 Apr 23 j 12:52	6°♈10'01		conjunction	-1240 Apr 23 j 12:57	21°♈19'27	-1°55'40
retrograde	-1247 Jul 23 j 17:38	8°♈08'35		minimum elong	-1240 Apr 23 j 12:57	21°♈19'27	1°55'39
opposition	-1247 Oct 10 j 22:16	6°♈43'18	-2°08'03	max. Earth dist.	-1240 Apr 24 j 02:10	21°♈20'41	30.82990 AU
min. Earth dist.	-1247 Oct 10 j 06:06	6°♈44'26	28.80833 AU	morning rise	-1240 May 09 j 18:50	21°♈55'35	
direct	-1247 Dec 27 j 07:57	5°♈19'18		retrograde	-1240 Aug 08 j 10:25	23°♈53'21	
evening set	-1246 Mar 24 j 21:35	7°♈13'25		opposition	-1240 Oct 26 j 03:27	22°♈28'25	-2°03'00
				min. Earth dist.	-1240 Oct 25 j 15:19	22°♈29'16	28.83444 AU
conjunction	-1246 Apr 09 j 23:12	7°♈49'14	-1°59'43	direct	-1239 Jan 11 j 17:07	21°♈04'12	
minimum elong	-1246 Apr 09 j 23:12	7°♈49'14	1°59'42	evening set	-1239 Apr 09 j 23:01	22°♈58'47	
max. Earth dist.	-1246 Apr 10 j 15:59	7°♈50'48	30.80683 AU				
morning rise	-1246 Apr 26 j 03:29	8°♈25'17		conjunction	-1239 Apr 26 j 03:28	23°♈34'45	-1°54'21
retrograde	-1246 Jul 26 j 07:02	10°♈23'43		minimum elong	-1239 Apr 26 j 03:28	23°♈34'45	1°54'21
opposition	-1246 Oct 13 j 09:25	8°♈58'26	-2°07'55	max. Earth dist.	-1239 Apr 26 j 16:05	23°♈35'55	30.83630 AU
min. Earth dist.	-1246 Oct 12 j 18:44	8°♈59'28	28.80846 AU	morning rise	-1239 May 12 j 09:33	24°♈10'53	
direct	-1246 Dec 29 j 19:49	7°♈34'22		retrograde	-1239 Aug 10 j 22:16	26°♈08'33	
evening set	-1245 Mar 27 j 11:20	9°♈28'31		opposition	-1239 Oct 28 j 14:32	24°♈43'42	-2°01'30
				min. Earth dist.	-1239 Oct 28 j 04:23	24°♈44'25	28.84055 AU
conjunction	-1245 Apr 12 j 13:31	10°♈04'21	-1°59'29	direct	-1238 Jan 14 j 04:06	23°♈19'29	
minimum elong	-1245 Apr 12 j 13:31	10°♈04'21	1°59'30	evening set	-1238 Apr 12 j 13:20	25°♈14'08	
max. Earth dist.	-1245 Apr 13 j 06:32	10°♈05'56	30.80749 AU				
morning rise	-1245 Apr 28 j 17:57	10°♈40'25		conjunction	-1238 Apr 28 j 18:12	25°♈50'07	-1°52'52
retrograde	-1245 Jul 28 j 19:33	12°♈38'43		minimum elong	-1238 Apr 28 j 18:12	25°♈50'07	1°52'51
opposition	-1245 Oct 15 j 20:29	11°♈13'26	-2°07'35	max. Earth dist.	-1238 Apr 29 j 05:35	25°♈51'11	30.84210 AU
min. Earth dist.	-1245 Oct 15 j 05:29	11°♈14'30	28.80963 AU	morning rise	-1238 May 15 j 00:30	26°♈26'16	
direct	-1244 Jan 01 j 08:59	9°♈49'19		retrograde	-1238 Aug 13 j 12:25	28°♈23'49	
evening set	-1244 Mar 29 j 01:06	11°♈43'30		opposition	-1238 Oct 31 j 01:20	26°♈59'02	-1°59'49
				min. Earth dist.	-1238 Oct 30 j 15:19	26°♈59'45	28.84579 AU
conjunction	-1244 Apr 14 j 03:30	12°♈19'21	-1°59'06	direct	-1237 Jan 16 j 17:51	25°♈34'46	
minimum elong	-1244 Apr 14 j 03:30	12°♈19'21	1°59'05	evening set	-1237 Apr 15 j 03:45	27°♈29'31	
max. Earth dist.	-1244 Apr 14 j 19:05	12°♈20'48	30.80934 AU				
morning rise	-1244 Apr 30 j 08:22	12°♈55'26		conjunction	-1237 May 01 j 08:52	28°♈05'31	-1°51'13
retrograde	-1244 Jul 30 j 08:26	14°♈53'37		minimum elong	-1237 May 01 j 08:52	28°♈05'31	1°51'13
opposition	-1244 Oct 17 j 07:39	13°♈28'21	-2°07'04	max. Earth dist.	-1237 May 01 j 18:36	28°♈06'25	30.84683 AU
min. Earth dist.	-1244 Oct 16 j 17:33	13°♈29'21	28.81227 AU	morning rise	-1237 May 17 j 15:26	28°♈41'40	
direct	-1243 Jan 02 j 19:37	12°♈04'11			-1237 Jun 27 j 19:08	0°♈	
evening set	-1243 Mar 31 j 14:52	13°♈58'25		retrograde	-1237 Aug 16 j 01:24	0°♈39'05	
					-1237 Oct 05 j 04:55	30°♈	
conjunction	-1243 Apr 16 j 17:51	14°♈34'18	-1°58'31	opposition	-1237 Nov 02 j 12:23	29°♈14'20	-1°57'57
minimum elong	-1243 Apr 16 j 17:51	14°♈34'18	1°58'31	min. Earth dist.	-1237 Nov 02 j 04:17	29°♈14'55	28.85006 AU
max. Earth dist.	-1243 Apr 17 j 10:05	14°♈35'49	30.81269 AU	direct	-1236 Jan 19 j 06:06	27°♈50'02	
morning rise	-1243 May 02 j 22:50	15°♈10'23		evening set	-1236 Apr 16 j 17:48	29°♈44'49	
retrograde	-1243 Aug 01 j 20:26	17°♈08'27			-1236 Apr 23 j 15:32	0°♈	
opposition	-1243 Oct 19 j 18:36	15°♈43'15	-2°06'20				
min. Earth dist.	-1243 Oct 19 j 04:51	15°♈44'14	28.81628 AU	conjunction	-1236 May 02 j 23:24	0°♈20'50	-1°49'24
direct	-1242 Jan 05 j 07:23	14°♈19'04		minimum elong	-1236 May 02 j 23:24	0°♈20'50	1°49'22
evening set	-1242 Apr 03 j 04:51	16°♈13'22		max. Earth dist.	-1236 May 03 j 08:42	0°♈21'42	30.85078 AU
				morning rise	-1236 May 19 j 06:04	0°♈56'59	
conjunction	-1242 Apr 19 j 08:07	16°♈49'16	-1°57'45	retrograde	-1236 Aug 17 j 14:02	2°♈54'15	
minimum elong	-1242 Apr 19 j 08:07	16°♈49'16	1°57'44	opposition	-1236 Nov 03 j 23:12	1°♈29'33	-1°55'55
max. Earth dist.	-1242 Apr 19 j 22:38	16°♈50'37	30.81750 AU	min. Earth dist.	-1236 Nov 03 j 15:16	1°♈30'07	28.85355 AU
morning rise	-1242 May 05 j 13:34	17°♈25'22		direct	-1235 Jan 20 j 19:52	0°♈05'11	
retrograde	-1242 Aug 04 j 09:41	19°♈23'20		evening set	-1235 Apr 19 j 08:08	2°♈00'00	
opposition	-1242 Oct 22 j 05:37	17°♈58'12	-2°05'25				
min. Earth dist.	-1242 Oct 21 j 16:13	17°♈59'09	28.82169 AU	conjunction	-1235 May 05 j 13:55	2°♈36'02	-1°47'24
direct	-1241 Jan 07 j 17:41	16°♈33'59		minimum elong	-1235 May 05 j 13:55	2°♈36'02	1°47'25
evening set	-1241 Apr 05 j 18:48	18°♈28'23		max. Earth dist.	-1235 May 05 j 21:11	2°♈36'43	30.85413 AU
				morning rise	-1235 May 21 j 20:55	3°♈12'12	
conjunction	-1241 Apr 21 j 22:33	19°♈04'18	-1°56'48	retrograde	-1235 Aug 20 j 03:12	5°♈09'17	
minimum elong	-1241 Apr 21 j 22:33	19°♈04'18	1°56'48	opposition	-1235 Nov 06 j 09:54	3°♈44'37	-1°53'43
max. Earth dist.	-1241 Apr 22 j 13:19	19°♈05'40	30.82334 AU	min. Earth dist.	-1235 Nov 06 j 03:26	3°♈45'04	28.85685 AU
morning rise	-1241 May 08 j 04:05	19°♈40'25		direct	-1234 Jan 23 j 07:14	2°♈20'10	
retrograde	-1241 Aug 06 j 20:30	21°♈38'16		evening set	-1234 Apr 21 j 22:17	4°♈15'01	
opposition	-1241 Oct 24 j 16:33	20°♈13'14	-2°04'18				
min. Earth dist.	-1241 Oct 24 j 04:21	20°♈14'07	28.82785 AU	conjunction	-1234 May 08 j 04:34	4°♈51'05	-1°45'16
direct	-1240 Jan 10 j 05:20	18°♈49'02		minimum elong	-1234 May 08 j 04:35	4°♈51'05	1°45'15

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Attention, astronomical year style is used: The year -1234 in astronomical counting style is the year 1235 BCE in historical counting style.

max. Earth dist.	-1234 May 08 j 12:00	4° 8 51'46	30.85747 AU	min. Earth dist.	-1228 Nov 21 j 10:03	19° 8 26'20	28.90367 AU
morning rise	-1234 May 24 j 11:36	5° 8 27'14		direct	-1227 Feb 07 j 17:39	18° 8 01'29	
retrograde	-1234 Aug 22 j 15:18	7° 8 24'08		evening set	-1227 May 08 j 00:52	19° 8 56'42	
opposition	-1234 Nov 08 j 20:33	5° 8 59'30	-1°51'20				
min. Earth dist.	-1234 Nov 08 j 14:47	5° 8 59'55	28.86021 AU	conjunction	-1227 May 24 j 08:51	20° 8 32'49	-1°26'02
direct	-1233 Jan 25 j 20:05	4° 8 34'59		minimum elong	-1227 May 24 j 08:51	20° 8 32'49	1°26'02
evening set	-1233 Apr 24 j 12:28	6° 8 29'52		max. Earth dist.	-1227 May 24 j 10:27	20° 8 32'58	30.90812 AU
				morning rise	-1227 Jun 09 j 16:33	21° 8 08'57	
conjunction	-1233 May 10 j 18:52	7° 8 05'56	-1°42'58	retrograde	-1227 Sep 07 j 00:37	23° 8 04'45	
minimum elong	-1233 May 10 j 18:52	7° 8 05'56	1°42'57	opposition	-1227 Nov 23 j 21:44	21° 8 40'37	-1°30'14
max. Earth dist.	-1233 May 11 j 00:20	7° 8 06'26	30.86120 AU	min. Earth dist.	-1227 Nov 23 j 20:39	21° 8 40'42	28.91373 AU
morning rise	-1233 May 27 j 02:10	7° 8 42'05		direct	-1226 Feb 10 j 06:57	20° 8 15'52	
retrograde	-1233 Aug 25 j 03:08	9° 8 38'49		evening set	-1226 May 10 j 15:16	22° 8 11'09	
opposition	-1233 Nov 11 j 07:05	8° 8 14'13	-1°48'48				
min. Earth dist.	-1233 Nov 11 j 01:48	8° 8 14'35	28.86437 AU	conjunction	-1226 May 26 j 23:16	22° 8 47'16	-1°22'44
direct	-1232 Jan 28 j 07:12	6° 8 49'37		minimum elong	-1226 May 26 j 23:16	22° 8 47'16	1°22'42
evening set	-1232 Apr 26 j 02:28	8° 8 44'32		max. Earth dist.	-1226 May 26 j 22:45	22° 8 47'13	30.91799 AU
				morning rise	-1226 Jun 12 j 07:05	23° 8 23'24	
conjunction	-1232 May 12 j 09:16	9° 8 20'37	-1°40'31	retrograde	-1226 Sep 09 j 13:52	25° 8 19'03	
minimum elong	-1232 May 12 j 09:16	9° 8 20'37	1°40'29	opposition	-1226 Nov 26 j 08:17	23° 8 54'59	-1°26'38
max. Earth dist.	-1232 May 12 j 15:00	9° 8 21'09	30.86583 AU	min. Earth dist.	-1226 Nov 26 j 08:43	23° 8 54'58	28.92332 AU
morning rise	-1232 May 28 j 16:33	9° 8 56'46		direct	-1225 Feb 12 j 18:45	22° 8 30'13	
retrograde	-1232 Aug 26 j 12:51	11° 8 53'19		evening set	-1225 May 13 j 05:23	24° 8 25'33	
opposition	-1232 Nov 12 j 17:37	10° 8 28'46	-1°46'05				
min. Earth dist.	-1232 Nov 12 j 13:25	10° 8 29'03	28.86957 AU	conjunction	-1225 May 29 j 13:39	25° 8 01'41	-1°19'18
direct	-1231 Jan 29 j 19:00	9° 8 04'07		minimum elong	-1225 May 29 j 13:40	25° 8 01'41	1°19'17
evening set	-1231 Apr 28 j 16:30	10° 8 59'04		max. Earth dist.	-1225 May 29 j 12:59	25° 8 01'37	30.92712 AU
				morning rise	-1225 Jun 14 j 21:17	25° 8 37'47	
conjunction	-1231 May 14 j 23:30	11° 8 35'09	-1°37'54	retrograde	-1225 Sep 12 j 01:38	27° 8 33'16	
minimum elong	-1231 May 14 j 23:31	11° 8 35'09	1°37'54	opposition	-1225 Nov 28 j 18:46	26° 8 09'18	-1°22'54
max. Earth dist.	-1231 May 15 j 03:40	11° 8 35'32	30.87185 AU	min. Earth dist.	-1225 Nov 28 j 20:10	26° 8 09'12	28.93188 AU
morning rise	-1231 May 31 j 07:04	12° 8 11'18		direct	-1224 Feb 15 j 08:24	24° 8 44'29	
retrograde	-1231 Aug 29 j 01:47	14° 8 07'41		evening set	-1224 May 14 j 19:40	26° 8 39'51	
opposition	-1231 Nov 15 j 04:03	12° 8 43'11	-1°43'13				
min. Earth dist.	-1231 Nov 14 j 23:39	12° 8 43'30	28.87622 AU	conjunction	-1224 May 31 j 03:54	27° 8 15'59	-1°15'45
direct	-1230 Feb 01 j 06:14	11° 8 18'29		minimum elong	-1224 May 31 j 03:54	27° 8 15'59	1°15'44
evening set	-1230 May 01 j 06:37	13° 8 13'29		max. Earth dist.	-1224 May 31 j 00:52	27° 8 15'42	30.93536 AU
				morning rise	-1224 Jun 16 j 11:40	27° 8 52'05	
conjunction	-1230 May 17 j 13:54	13° 8 49'35	-1°35'09	retrograde	-1224 Sep 13 j 13:42	29° 8 47'23	
minimum elong	-1230 May 17 j 13:55	13° 8 49'35	1°35'07	opposition	-1224 Nov 30 j 05:06	28° 8 23'28	-1°19'03
max. Earth dist.	-1230 May 17 j 17:53	13° 8 49'57	30.87919 AU	min. Earth dist.	-1224 Nov 30 j 07:19	28° 8 23'19	28.93974 AU
morning rise	-1230 Jun 02 j 21:27	14° 8 25'44		direct	-1223 Feb 16 j 20:06	26° 8 58'36	
	-1230 Jun 19 j 06:19	15° 8		evening set	-1223 May 17 j 09:43	28° 8 54'00	
retrograde	-1230 Aug 31 j 11:50	16° 8 21'58					
	-1230 Nov 16 j 03:53	15° 8		conjunction	-1223 Jun 02 j 18:14	29° 8 30'08	-1°12'06
opposition	-1230 Nov 17 j 14:31	14° 8 57'32	-1°40'12	minimum elong	-1223 Jun 02 j 18:15	29° 8 30'08	1°12'06
min. Earth dist.	-1230 Nov 17 j 11:43	14° 8 57'44	28.88426 AU	max. Earth dist.	-1223 Jun 02 j 15:04	29° 8 29'50	30.94286 AU
direct	-1229 Feb 03 j 16:31	13° 8 32'48			-1223 Jun 16 j 05:21	0° 8 II	
	-1229 Apr 20 j 15:13	15° 8		morning rise	-1223 Jun 19 j 01:49	0° 8 II06'13	
evening set	-1229 May 03 j 20:43	15° 8 27'53		retrograde	-1223 Sep 15 j 23:49	2° 8 II01'20	
				opposition	-1223 Dec 02 j 15:30	0° 8 II37'28	-1°15'06
conjunction	-1229 May 20 j 04:14	16° 8 03'59	-1°32'15	min. Earth dist.	-1223 Dec 02 j 19:15	0° 8 II37'12	28.94686 AU
minimum elong	-1229 May 20 j 04:15	16° 8 03'59	1°32'15		-1223 Dec 25 j 10:47	30° 8 R	
max. Earth dist.	-1229 May 20 j 07:21	16° 8 04'16	30.88806 AU	direct	-1222 Feb 19 j 08:24	29° 8 12'32	
morning rise	-1229 Jun 05 j 11:54	16° 8 40'07			-1222 Apr 14 j 23:50	0° 8 II	
retrograde	-1229 Sep 03 j 00:18	18° 8 36'12		evening set	-1222 May 19 j 23:53	1° 8 II07'57	
opposition	-1229 Nov 20 j 00:55	17° 8 11'52	-1°37'01				
min. Earth dist.	-1229 Nov 19 j 21:48	17° 8 12'05	28.89358 AU	conjunction	-1222 Jun 05 j 08:21	1° 8 II44'05	-1°08'21
direct	-1228 Feb 06 j 06:10	15° 8 47'08		minimum elong	-1222 Jun 05 j 08:21	1° 8 II44'05	1°08'19
evening set	-1228 May 05 j 10:43	17° 8 42'16		max. Earth dist.	-1222 Jun 05 j 03:08	1° 8 II43'36	30.94994 AU
				morning rise	-1222 Jun 21 j 16:00	2° 8 II20'10	
conjunction	-1228 May 21 j 18:23	18° 8 18'23	-1°29'13	retrograde	-1222 Sep 18 j 12:11	4° 8 II15'05	
minimum elong	-1228 May 21 j 18:23	18° 8 18'23	1°29'11	opposition	-1222 Dec 05 j 01:40	2° 8 II51'16	-1°11'02
max. Earth dist.	-1228 May 21 j 20:30	18° 8 18'35	30.89784 AU	min. Earth dist.	-1222 Dec 05 j 05:31	2° 8 II50'59	28.95384 AU
morning rise	-1228 Jun 07 j 02:07	18° 8 54'31		direct	-1221 Feb 21 j 19:57	1° 8 II26'16	
retrograde	-1228 Sep 04 j 12:01	20° 8 50'28		evening set	-1221 May 22 j 13:52	3° 8 II21'43	
opposition	-1228 Nov 21 j 11:27	19° 8 26'14	-1°33'42				

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Attention, astronomical year style is used: The year -1221 in astronomical counting style is the year 1222 BCE in historical counting style.

conjunction	-1221 Jun 07 j 22:27	3°II57'50	-1°04'30	direct	-1214 Mar 09 j 08:41	16°II59'22	
minimum elong	-1221 Jun 07 j 22:27	3°II57'50	1°04'29	evening set	-1214 Jun 07 j 14:00	18°II55'13	
max. Earth dist.	-1221 Jun 07 j 16:57	3°II57'20	30.95698 AU				
morning rise	-1221 Jun 24 j 05:52	4°II33'54		conjunction	-1214 Jun 23 j 22:13	19°II31'16	-0°35'15
retrograde	-1221 Sep 20 j 21:19	6°II28'38		minimum elong	-1214 Jun 23 j 22:13	19°II31'16	0°35'13
opposition	-1221 Dec 07 j 12:01	5°II04'52	-1°06'52	max. Earth dist.	-1214 Jun 23 j 11:54	19°II30'19	31.03287 AU
min. Earth dist.	-1221 Dec 07 j 17:35	5°II04'28	28.96108 AU	morning rise	-1214 Jul 10 j 04:12	20°II07'10	
direct	-1220 Feb 24 j 06:36	3°II39'49		retrograde	-1214 Oct 06 j 05:09	22°II00'56	
evening set	-1220 May 24 j 03:35	5°II35'17		opposition	-1214 Dec 22 j 11:16	20°II37'49	-0°35'20
				min. Earth dist.	-1214 Dec 22 j 21:26	20°II37'06	29.03933 AU
conjunction	-1220 Jun 09 j 12:11	6°II11'24	-1°00'33	direct	-1213 Mar 11 j 21:06	19°II12'45	
minimum elong	-1220 Jun 09 j 12:11	6°II11'24	1°00'32	evening set	-1213 Jun 10 j 03:51	21°II08'38	
max. Earth dist.	-1220 Jun 09 j 05:42	6°II10'48	30.96465 AU				
morning rise	-1220 Jun 25 j 19:35	6°II47'26		conjunction	-1213 Jun 26 j 11:44	21°II44'41	-0°30'49
retrograde	-1220 Sep 22 j 08:29	8°II42'00		minimum elong	-1213 Jun 26 j 11:44	21°II44'41	0°30'48
opposition	-1220 Dec 08 j 22:09	7°II18'17	-1°02'36	max. Earth dist.	-1213 Jun 25 j 23:19	21°II43'32	31.04530 AU
min. Earth dist.	-1220 Dec 09 j 03:25	7°II17'55	28.96907 AU	morning rise	-1213 Jul 12 j 17:34	22°II20'33	
direct	-1219 Feb 25 j 20:03	5°II53'10		retrograde	-1213 Oct 08 j 17:53	24°II14'11	
evening set	-1219 May 26 j 17:27	7°II48'41		opposition	-1213 Dec 24 j 21:31	22°II51'10	-0°30'34
				min. Earth dist.	-1213 Dec 25 j 07:46	22°II50'27	29.05131 AU
conjunction	-1219 Jun 12 j 02:01	8°II24'48	-0°56'32	direct	-1212 Mar 13 j 08:43	21°II26'05	
minimum elong	-1219 Jun 12 j 02:02	8°II24'48	0°56'31	evening set	-1212 Jun 11 j 17:25	23°II22'01	
max. Earth dist.	-1219 Jun 11 j 18:44	8°II24'07	30.97313 AU				
morning rise	-1219 Jun 28 j 09:15	9°II00'48		conjunction	-1212 Jun 28 j 01:14	23°II58'02	-0°26'20
retrograde	-1219 Sep 24 j 18:56	10°II55'13		minimum elong	-1212 Jun 28 j 01:14	23°II58'02	0°26'19
opposition	-1219 Dec 11 j 08:19	9°II31'34	-0°58'15	max. Earth dist.	-1212 Jun 27 j 12:26	23°II56'51	31.05668 AU
min. Earth dist.	-1219 Dec 11 j 15:03	9°II31'05	28.97822 AU	morning rise	-1212 Jul 14 j 06:37	24°II33'53	
direct	-1218 Feb 28 j 07:01	8°II06'25		retrograde	-1212 Oct 10 j 02:33	26°II27'22	
evening set	-1218 May 29 j 07:12	10°II01'59		opposition	-1212 Dec 26 j 07:57	25°II04'26	-0°25'45
				min. Earth dist.	-1212 Dec 26 j 20:10	25°II03'34	29.06214 AU
conjunction	-1218 Jun 14 j 15:49	10°II38'04	-0°52'25	direct	-1211 Mar 15 j 19:46	23°II39'20	
minimum elong	-1218 Jun 14 j 15:49	10°II38'04	0°52'24	evening set	-1211 Jun 14 j 07:09	25°II35'17	
max. Earth dist.	-1218 Jun 14 j 08:18	10°II37'23	30.98301 AU				
morning rise	-1218 Jun 30 j 22:50	11°II14'04		conjunction	-1211 Jun 30 j 14:42	26°II11'17	-0°21'50
retrograde	-1218 Sep 27 j 06:28	13°II08'19		minimum elong	-1211 Jun 30 j 14:42	26°II11'17	0°21'49
opposition	-1218 Dec 13 j 18:28	11°II44'45	-0°53'49	max. Earth dist.	-1211 Jun 30 j 00:26	26°II09'58	31.06705 AU
min. Earth dist.	-1218 Dec 14 j 00:59	11°II44'18	28.98867 AU	morning rise	-1211 Jul 16 j 19:51	26°II47'05	
direct	-1217 Mar 02 j 19:58	10°II19'36		retrograde	-1211 Oct 12 j 13:00	28°II40'25	
evening set	-1217 May 31 j 20:53	12°II15'13		opposition	-1211 Dec 28 j 18:05	27°II17'33	-0°20'55
				min. Earth dist.	-1211 Dec 29 j 06:20	27°II16'41	29.07191 AU
conjunction	-1217 Jun 17 j 05:17	12°II51'18	-0°48'14	direct	-1210 Mar 18 j 08:45	25°II52'24	
minimum elong	-1217 Jun 17 j 05:18	12°II51'18	0°48'13	evening set	-1210 Jun 16 j 20:49	27°II48'22	
max. Earth dist.	-1217 Jun 16 j 20:23	12°II50'29	30.99420 AU				
morning rise	-1217 Jul 03 j 12:10	13°II27'16		conjunction	-1210 Jul 03 j 04:06	28°II24'20	-0°17'18
retrograde	-1217 Sep 29 j 19:00	15°II21'25		minimum elong	-1210 Jul 03 j 04:06	28°II24'20	0°17'17
opposition	-1217 Dec 16 j 04:42	13°II57'56	-0°49'18	max. Earth dist.	-1210 Jul 02 j 12:51	28°II22'56	31.07635 AU
min. Earth dist.	-1217 Dec 16 j 12:08	13°II57'25	29.00058 AU	morning rise	-1210 Jul 19 j 08:50	29°II00'06	
direct	-1216 Mar 04 j 07:43	12°II32'48			-1210 Aug 18 j 14:17	0°☾	
evening set	-1216 Jun 02 j 10:28	14°II28'29		retrograde	-1210 Oct 14 j 22:54	0°☾53'18	
					-1210 Dec 13 j 06:29	30°☾II	
conjunction	-1216 Jun 18 j 18:57	15°II04'34	-0°43'58	opposition	-1210 Dec 31 j 04:29	29°II30'28	-0°16'03
minimum elong	-1216 Jun 18 j 18:58	15°II04'34	0°43'57	min. Earth dist.	-1210 Dec 31 j 18:25	29°II29'29	29.08094 AU
max. Earth dist.	-1216 Jun 18 j 10:26	15°II03'46	31.00671 AU	direct	-1209 Mar 20 j 19:01	28°II05'15	
morning rise	-1216 Jul 05 j 01:30	15°II40'30			-1209 Jun 18 j 20:25	0°☾	
retrograde	-1216 Oct 01 j 06:21	17°II34'31		evening set	-1209 Jun 19 j 10:07	0°☾01'14	
opposition	-1216 Dec 17 j 14:46	16°II11'10	-0°44'42				
min. Earth dist.	-1216 Dec 17 j 22:54	16°II10'35	29.01338 AU	conjunction	-1209 Jul 05 j 17:10	0°☾37'10	-0°12'45
direct	-1215 Mar 06 j 21:15	14°II46'03		minimum elong	-1209 Jul 05 j 17:10	0°☾37'10	0°12'44
evening set	-1215 Jun 05 j 00:17	16°II41'49		behind sun begin	-1209 Jul 05 j 13:08	0°☾36'49	
				behind sun end	-1209 Jul 05 j 21:13	0°☾37'32	
conjunction	-1215 Jun 21 j 08:30	17°II17'53	-0°39'38	max. Earth dist.	-1209 Jul 05 j 01:30	0°☾35'44	31.08514 AU
minimum elong	-1215 Jun 21 j 08:30	17°II17'53	0°39'38	morning rise	-1209 Jul 21 j 21:30	1°☾12'54	
max. Earth dist.	-1215 Jun 20 j 22:04	17°II16'55	31.01985 AU	retrograde	-1209 Oct 17 j 09:03	3°☾05'56	
morning rise	-1215 Jul 07 j 14:58	17°II53'48		opposition	-1208 Jan 02 j 14:41	1°☾43'08	-0°11'11
retrograde	-1215 Oct 03 j 18:31	19°II47'42		min. Earth dist.	-1208 Jan 03 j 04:39	1°☾42'09	29.08949 AU
opposition	-1215 Dec 20 j 00:57	18°II24'28	-0°40'03	direct	-1208 Mar 22 j 08:25	0°☾17'53	
min. Earth dist.	-1215 Dec 20 j 09:37	18°II23'51	29.02660 AU	evening set	-1208 Jun 20 j 23:30	2°☾13'51	

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Attention, astronomical year style is used: The year -1208 in astronomical counting style is the year 1209 BCE in historical counting style.

conjunction	-1208 Jul 07 j 06:10	2° $\overline{49}$ '46	-0°08'11	retrograde	-1203 Oct 30 j 00:56	16° $\overline{17}$ '59	
minimum elong	-1208 Jul 07 j 06:09	2° $\overline{49}$ '46	0°08'10	opposition	-1202 Jan 15 j 04:07	14° $\overline{55}$ '34	0°18'07
behind sun begin	-1208 Jul 07 j 00:20	2° $\overline{49}$ '15		min. Earth dist.	-1202 Jan 15 j 21:38	14° $\overline{54}$ '21	29.15323 AU
behind sun end	-1208 Jul 07 j 11:58	2° $\overline{50}$ '17		direct	-1202 Apr 05 j 09:27	13° $\overline{30}$ '17	
max. Earth dist.	-1208 Jul 06 j 13:01	2° $\overline{48}$ '11	31.09366 AU	evening set	-1202 Jul 05 j 05:44	15° $\overline{26}$ '28	
morning rise	-1208 Jul 23 j 10:09	3° $\overline{25}$ '27					
retrograde	-1208 Oct 18 j 20:08	5° $\overline{18}$ '20		conjunction	-1202 Jul 21 j 10:04	16° $\overline{02}$ '11	0°19'17
opposition	-1207 Jan 04 j 00:49	3° $\overline{55}$ '33	-0°06'17	minimum elong	-1202 Jul 21 j 10:04	16° $\overline{02}$ '11	0°19'18
min. Earth dist.	-1207 Jan 04 j 15:46	3° $\overline{54}$ '30	29.09820 AU	max. Earth dist.	-1202 Jul 20 j 14:26	16° $\overline{00}$ '22	31.15927 AU
direct	-1207 Mar 24 j 20:17	2° $\overline{30}$ '15		morning rise	-1202 Aug 06 j 11:09	16° $\overline{37}$ '37	
evening set	-1207 Jun 23 j 12:40	4° $\overline{26}$ '14		retrograde	-1202 Nov 01 j 11:33	18° $\overline{29}$ '55	
				opposition	-1201 Jan 17 j 14:30	17° $\overline{07}$ '36	0°22'56
conjunction	-1207 Jul 09 j 19:08	5° $\overline{02}$ '06	-0°03'38	min. Earth dist.	-1201 Jan 18 j 07:41	17° $\overline{06}$ '24	29.16546 AU
minimum elong	-1207 Jul 09 j 19:09	5° $\overline{02}$ '06	0°03'37	direct	-1201 Apr 07 j 21:34	15° $\overline{42}$ '22	
behind sun begin	-1207 Jul 09 j 12:38	5° $\overline{01}$ '32		evening set	-1201 Jul 07 j 18:30	17° $\overline{38}$ '36	
behind sun end	-1207 Jul 10 j 01:40	5° $\overline{02}$ '41					
max. Earth dist.	-1207 Jul 09 j 02:24	5° $\overline{00}$ '34	31.10254 AU	conjunction	-1201 Jul 23 j 22:21	18° $\overline{14}$ '17	0°23'46
morning rise	-1207 Jul 25 j 22:36	5° $\overline{37}$ '45		minimum elong	-1201 Jul 23 j 22:21	18° $\overline{14}$ '17	0°23'47
retrograde	-1207 Oct 21 j 06:11	7° $\overline{30}$ '30		max. Earth dist.	-1201 Jul 23 j 02:09	18° $\overline{12}$ '24	31.17104 AU
opposition	-1206 Jan 06 j 11:04	6° $\overline{07}$ '45	-0°01'24	morning rise	-1201 Aug 08 j 22:50	18° $\overline{49}$ '40	
min. Earth dist.	-1206 Jan 07 j 02:34	6° $\overline{06}$ '40	29.10731 AU	retrograde	-1201 Nov 03 j 21:30	20° $\overline{41}$ '56	
direct	-1206 Mar 27 j 10:05	4° $\overline{42}$ '24		opposition	-1200 Jan 20 j 01:02	19° $\overline{19}$ '42	0°27'44
asc. node	-1206 Apr 21 j 01:46	4° $\overline{52}$ '19		min. Earth dist.	-1200 Jan 20 j 19:43	19° $\overline{18}$ '24	29.17691 AU
evening set	-1206 Jun 26 j 01:53	6° $\overline{38}$ '25		direct	-1200 Apr 09 j 06:59	17° $\overline{54}$ '29	
				evening set	-1200 Jul 09 j 07:20	19° $\overline{50}$ '46	
conjunction	-1206 Jul 12 j 07:48	7° $\overline{14}$ '15	0°01'04				
minimum elong	-1206 Jul 12 j 07:48	7° $\overline{14}$ '15	0°01'05	conjunction	-1200 Jul 25 j 10:44	20° $\overline{26}$ '24	0°28'14
behind sun begin	-1206 Jul 12 j 01:14	7° $\overline{13}$ '40		minimum elong	-1200 Jul 25 j 10:44	20° $\overline{26}$ '24	0°28'15
behind sun end	-1206 Jul 12 j 14:22	7° $\overline{14}$ '49		max. Earth dist.	-1200 Jul 24 j 14:06	20° $\overline{24}$ '29	31.18189 AU
max. Earth dist.	-1206 Jul 11 j 13:34	7° $\overline{12}$ '34	31.11207 AU	morning rise	-1200 Aug 10 j 10:40	21° $\overline{01}$ '45	
morning rise	-1206 Jul 28 j 10:55	7° $\overline{49}$ '50		retrograde	-1200 Nov 05 j 07:23	22° $\overline{53}$ '56	
retrograde	-1206 Oct 23 j 17:48	9° $\overline{42}$ '28		opposition	-1199 Jan 21 j 11:24	21° $\overline{31}$ '47	0°32'28
opposition	-1205 Jan 08 j 21:17	8° $\overline{19}$ '46	0°03'30	min. Earth dist.	-1199 Jan 22 j 06:13	21° $\overline{30}$ '29	29.18705 AU
min. Earth dist.	-1205 Jan 09 j 12:44	8° $\overline{18}$ '41	29.11743 AU	direct	-1199 Apr 11 j 19:57	20° $\overline{06}$ '35	
direct	-1205 Mar 29 j 21:39	6° $\overline{54}$ '24		evening set	-1199 Jul 11 j 20:15	22° $\overline{02}$ '54	
evening set	-1205 Jun 28 j 14:49	8° $\overline{50}$ '26					
				conjunction	-1199 Jul 27 j 23:03	22° $\overline{38}$ '29	0°32'39
conjunction	-1205 Jul 14 j 20:32	9° $\overline{26}$ '14	0°05'40	minimum elong	-1199 Jul 27 j 23:03	22° $\overline{38}$ '29	0°32'40
minimum elong	-1205 Jul 14 j 20:32	9° $\overline{26}$ '14	0°05'41	max. Earth dist.	-1199 Jul 27 j 00:52	22° $\overline{36}$ '26	31.19133 AU
behind sun begin	-1205 Jul 14 j 14:14	9° $\overline{25}$ '41		morning rise	-1199 Aug 12 j 22:27	23° $\overline{13}$ '48	
behind sun end	-1205 Jul 15 j 02:50	9° $\overline{26}$ '48		retrograde	-1199 Nov 07 j 18:29	25° $\overline{05}$ '55	
max. Earth dist.	-1205 Jul 14 j 03:03	9° $\overline{24}$ '38	31.12269 AU	opposition	-1198 Jan 23 j 21:59	23° $\overline{43}$ '49	0°37'10
morning rise	-1205 Jul 30 j 23:01	10° $\overline{01}$ '47		min. Earth dist.	-1198 Jan 24 j 17:46	23° $\overline{42}$ '26	29.19597 AU
retrograde	-1205 Oct 26 j 03:58	11° $\overline{54}$ '19		direct	-1198 Apr 14 j 07:18	22° $\overline{18}$ '36	
opposition	-1204 Jan 11 j 07:36	10° $\overline{31}$ '42	0°08'23	evening set	-1198 Jul 14 j 08:51	24° $\overline{14}$ '56	
min. Earth dist.	-1204 Jan 11 j 23:59	10° $\overline{30}$ '33	29.12861 AU				
direct	-1204 Mar 31 j 10:33	9° $\overline{06}$ '21		conjunction	-1198 Jul 30 j 11:15	24° $\overline{50}$ '30	0°37'01
evening set	-1204 Jun 30 j 03:46	11° $\overline{02}$ '25		minimum elong	-1198 Jul 30 j 11:14	24° $\overline{50}$ '30	0°37'01
				max. Earth dist.	-1198 Jul 29 j 13:20	24° $\overline{48}$ '28	31.19954 AU
conjunction	-1204 Jul 16 j 08:58	11° $\overline{38}$ '11	0°10'13	morning rise	-1198 Aug 15 j 09:55	25° $\overline{25}$ '45	
minimum elong	-1204 Jul 16 j 08:58	11° $\overline{38}$ '11	0°10'14	retrograde	-1198 Nov 10 j 04:07	27° $\overline{17}$ '48	
behind sun begin	-1204 Jul 16 j 03:47	11° $\overline{37}$ '43		opposition	-1197 Jan 26 j 08:34	25° $\overline{55}$ '44	0°41'48
behind sun end	-1204 Jul 16 j 14:09	11° $\overline{38}$ '38		min. Earth dist.	-1197 Jan 27 j 05:05	25° $\overline{54}$ '18	29.20354 AU
max. Earth dist.	-1204 Jul 15 j 14:05	11° $\overline{36}$ '26	31.13446 AU	direct	-1197 Apr 16 j 20:38	24° $\overline{30}$ '31	
morning rise	-1204 Aug 01 j 11:09	12° $\overline{13}$ '42		evening set	-1197 Jul 16 j 21:32	26° $\overline{26}$ '51	
retrograde	-1204 Oct 27 j 16:06	14° $\overline{06}$ '08					
opposition	-1203 Jan 12 j 17:48	12° $\overline{43}$ '36	0°13'16	conjunction	-1197 Aug 01 j 23:12	27° $\overline{02}$ '21	0°41'19
min. Earth dist.	-1203 Jan 13 j 09:42	12° $\overline{42}$ '29	29.14075 AU	minimum elong	-1197 Aug 01 j 23:12	27° $\overline{02}$ '21	0°41'20
direct	-1203 Apr 02 j 22:33	11° $\overline{18}$ '17		max. Earth dist.	-1197 Jul 31 j 23:42	27° $\overline{00}$ '10	31.20665 AU
evening set	-1203 Jul 02 j 16:43	13° $\overline{14}$ '24		morning rise	-1197 Aug 17 j 21:26	27° $\overline{37}$ '34	
				retrograde	-1197 Nov 12 j 15:40	29° $\overline{29}$ '33	
conjunction	-1203 Jul 18 j 21:35	13° $\overline{50}$ '09	0°14'45	opposition	-1196 Jan 28 j 19:00	28° $\overline{07}$ '29	0°46'22
minimum elong	-1203 Jul 18 j 21:36	13° $\overline{50}$ '09	0°14'46	min. Earth dist.	-1196 Jan 29 j 15:36	28° $\overline{06}$ '03	29.21038 AU
behind sun begin	-1203 Jul 18 j 19:08	13° $\overline{49}$ '56		direct	-1196 Apr 18 j 08:05	26° $\overline{42}$ '14	
behind sun end	-1203 Jul 19 j 00:03	13° $\overline{50}$ '22		evening set	-1196 Jul 18 j 09:48	28° $\overline{38}$ '34	
max. Earth dist.	-1203 Jul 18 j 02:56	13° $\overline{48}$ '26	31.14679 AU				
morning rise	-1203 Aug 03 j 23:07	14° $\overline{25}$ '37		conjunction	-1196 Aug 03 j 11:08	29° $\overline{14}$ '01	0°45'33

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Attention, astronomical year style is used: The year -1196 in astronomical counting style is the year 1197 BCE in historical counting style.

minimum elong	-1196 Aug 03 j 11:08	29° Ω 14'01	0°45'34	opposition	-1189 Feb 12 j 21:11	13° Ω 25'15	1°15'59
max. Earth dist.	-1196 Aug 02 j 12:18	29° Ω 11'54	31.21308 AU	min. Earth dist.	-1189 Feb 13 j 18:57	13° Ω 23'44	29.26623 AU
morning rise	-1196 Aug 19 j 08:38	29° Ω 49'10		direct	-1189 May 04 j 19:25	12° Ω 00'03	
	-1196 Aug 24 j 09:30	0° Ω		evening set	-1189 Aug 03 j 21:35	13° Ω 56'24	
retrograde	-1196 Nov 14 j 01:46	1° Ω 41'05					
opposition	-1195 Jan 30 j 05:35	0° Ω 19'02	0°50'51	conjunction	-1189 Aug 19 j 18:34	14° Ω 31'32	1°12'59
min. Earth dist.	-1195 Jan 31 j 03:17	0° Ω 17'31	29.21660 AU	minimum elong	-1189 Aug 19 j 18:34	14° Ω 31'32	1°13'00
	-1195 Feb 10 j 17:53	30° Ω 5		max. Earth dist.	-1189 Aug 18 j 19:18	14° Ω 29'22	31.27022 AU
direct	-1195 Apr 20 j 22:10	28° Ω 53'45			-1189 Sep 01 j 14:01	15° Ω	
	-1195 Jun 26 j 04:59	0° Ω		morning rise	-1189 Sep 04 j 11:38	15° Ω 06'21	
evening set	-1195 Jul 20 j 22:12	0° Ω 50'04		retrograde	-1189 Nov 29 j 21:39	16° Ω 58'00	
				opposition	-1188 Feb 15 j 07:57	15° Ω 36'13	1°19'49
conjunction	-1195 Aug 05 j 22:47	1° Ω 25'29	0°49'43	min. Earth dist.	-1188 Feb 16 j 06:13	15° Ω 34'41	29.27550 AU
minimum elong	-1195 Aug 05 j 22:46	1° Ω 25'29	0°49'45		-1188 Mar 08 j 22:34	15° Ω	
max. Earth dist.	-1195 Aug 04 j 22:40	1° Ω 23'15	31.21927 AU	direct	-1188 May 06 j 07:18	14° Ω 11'04	
morning rise	-1195 Aug 21 j 19:49	2° Ω 00'35			-1188 Jul 01 j 18:11	15° Ω	
retrograde	-1195 Nov 16 j 13:14	3° Ω 52'24		evening set	-1188 Aug 05 j 09:23	16° Ω 07'26	
opposition	-1194 Feb 01 j 16:00	2° Ω 30'21	0°55'16	max. Earth dist.	-1188 Aug 20 j 04:59	16° Ω 40'14	31.27903 AU
min. Earth dist.	-1194 Feb 02 j 13:00	2° Ω 28'54	29.22293 AU				
direct	-1194 Apr 23 j 11:10	1° Ω 05'03		conjunction	-1188 Aug 21 j 05:35	16° Ω 42'31	1°16'31
evening set	-1194 Jul 23 j 10:19	3° Ω 01'22		minimum elong	-1188 Aug 21 j 05:35	16° Ω 42'31	1°16'31
max. Earth dist.	-1194 Aug 07 j 10:56	3° Ω 34'33	31.22573 AU	morning rise	-1188 Sep 05 j 22:10	17° Ω 17'17	
				retrograde	-1188 Dec 01 j 09:22	19° Ω 08'57	
conjunction	-1194 Aug 08 j 10:25	3° Ω 36'43	0°53'49	opposition	-1187 Feb 16 j 18:49	17° Ω 47'11	1°23'32
minimum elong	-1194 Aug 08 j 10:24	3° Ω 36'43	0°53'50	min. Earth dist.	-1187 Feb 17 j 16:54	17° Ω 45'40	29.28388 AU
morning rise	-1194 Aug 24 j 06:40	4° Ω 11'46		direct	-1187 May 08 j 18:28	16° Ω 22'05	
retrograde	-1194 Nov 18 j 21:34	6° Ω 03'32		evening set	-1187 Aug 07 j 21:01	18° Ω 18'28	
opposition	-1193 Feb 04 j 02:42	4° Ω 41'29	0°59'36				
min. Earth dist.	-1193 Feb 05 j 00:46	4° Ω 39'58	29.22988 AU	conjunction	-1187 Aug 23 j 16:43	18° Ω 53'29	1°19'56
direct	-1193 Apr 25 j 22:46	3° Ω 16'10		minimum elong	-1187 Aug 23 j 16:43	18° Ω 53'29	1°19'57
evening set	-1193 Jul 25 j 22:14	5° Ω 12'28		max. Earth dist.	-1187 Aug 22 j 16:54	18° Ω 51'16	31.28665 AU
				morning rise	-1187 Sep 08 j 08:28	19° Ω 28'12	
conjunction	-1193 Aug 10 j 21:38	5° Ω 47'47	0°57'50	retrograde	-1187 Dec 03 j 19:26	21° Ω 19'52	
minimum elong	-1193 Aug 10 j 21:38	5° Ω 47'47	0°57'50	opposition	-1186 Feb 19 j 05:52	19° Ω 58'08	1°27'08
max. Earth dist.	-1193 Aug 09 j 21:52	5° Ω 45'35	31.23315 AU	min. Earth dist.	-1186 Feb 20 j 05:00	19° Ω 56'33	29.29088 AU
morning rise	-1193 Aug 26 j 17:23	6° Ω 22'46		direct	-1186 May 11 j 07:53	18° Ω 33'03	
retrograde	-1193 Nov 21 j 07:30	8° Ω 14'29		evening set	-1186 Aug 10 j 08:43	20° Ω 29'26	
opposition	-1192 Feb 06 j 13:13	6° Ω 52'29	1°03'50	max. Earth dist.	-1186 Aug 25 j 02:34	21° Ω 02'05	31.29302 AU
min. Earth dist.	-1192 Feb 07 j 10:17	6° Ω 51'01	29.23779 AU				
direct	-1192 Apr 27 j 11:16	5° Ω 27'10		conjunction	-1186 Aug 26 j 03:36	21° Ω 04'24	1°23'15
evening set	-1192 Jul 27 j 10:11	7° Ω 23'28		minimum elong	-1186 Aug 26 j 03:36	21° Ω 04'24	1°23'15
max. Earth dist.	-1192 Aug 11 j 09:18	7° Ω 56'32	31.24153 AU	morning rise	-1186 Sep 10 j 18:52	21° Ω 39'04	
				retrograde	-1186 Dec 06 j 07:04	23° Ω 30'44	
conjunction	-1192 Aug 12 j 09:01	7° Ω 58'44	1°01'45	opposition	-1185 Feb 21 j 16:51	22° Ω 09'01	1°30'36
minimum elong	-1192 Aug 12 j 09:00	7° Ω 58'44	1°01'45	min. Earth dist.	-1185 Feb 22 j 15:13	22° Ω 07'29	29.29666 AU
morning rise	-1192 Aug 28 j 04:03	8° Ω 33'41		direct	-1185 May 13 j 20:33	20° Ω 43'57	
retrograde	-1192 Nov 22 j 17:02	10° Ω 25'21		evening set	-1185 Aug 12 j 20:00	22° Ω 40'18	
opposition	-1191 Feb 07 j 23:45	9° Ω 03'24	1°07'59				
min. Earth dist.	-1191 Feb 08 j 21:38	9° Ω 01'53	29.24679 AU	conjunction	-1185 Aug 28 j 14:23	23° Ω 15'14	1°26'26
direct	-1191 Apr 29 j 20:46	7° Ω 38'06		minimum elong	-1185 Aug 28 j 14:23	23° Ω 15'14	1°26'26
evening set	-1191 Jul 29 j 22:05	9° Ω 34'26		max. Earth dist.	-1185 Aug 27 j 13:49	23° Ω 12'57	31.29806 AU
				morning rise	-1185 Sep 13 j 04:55	23° Ω 49'51	
conjunction	-1191 Aug 14 j 20:19	10° Ω 09'39	1°05'36	retrograde	-1185 Dec 08 j 16:00	25° Ω 41'31	
minimum elong	-1191 Aug 14 j 20:19	10° Ω 09'39	1°05'36	opposition	-1184 Feb 24 j 03:59	24° Ω 19'48	1°33'56
max. Earth dist.	-1191 Aug 13 j 20:59	10° Ω 07'29	31.25093 AU	min. Earth dist.	-1184 Feb 25 j 03:36	24° Ω 18'10	29.30122 AU
morning rise	-1191 Aug 30 j 14:44	10° Ω 44'33		direct	-1184 May 15 j 08:27	22° Ω 54'44	
retrograde	-1191 Nov 25 j 01:54	12° Ω 36'12		evening set	-1184 Aug 14 j 07:24	24° Ω 51'03	
opposition	-1190 Feb 10 j 10:24	11° Ω 14'18	1°12'02	max. Earth dist.	-1184 Aug 29 j 00:06	25° Ω 23'37	31.30214 AU
min. Earth dist.	-1190 Feb 11 j 07:48	11° Ω 12'49	29.25639 AU				
direct	-1190 May 02 j 09:32	9° Ω 49'04		conjunction	-1184 Aug 30 j 01:04	25° Ω 25'56	1°29'29
evening set	-1190 Aug 01 j 09:53	11° Ω 45'24		minimum elong	-1184 Aug 30 j 01:04	25° Ω 25'56	1°29'29
max. Earth dist.	-1190 Aug 16 j 07:17	12° Ω 18'20	31.26063 AU	morning rise	-1184 Sep 14 j 15:05	26° Ω 00'30	
				retrograde	-1184 Dec 10 j 01:57	27° Ω 52'09	
conjunction	-1190 Aug 17 j 07:22	12° Ω 20'34	1°09'20	opposition	-1183 Feb 25 j 14:49	26° Ω 30'26	1°37'08
minimum elong	-1190 Aug 17 j 07:22	12° Ω 20'34	1°09'21	min. Earth dist.	-1183 Feb 26 j 13:39	26° Ω 28'51	29.30486 AU
morning rise	-1190 Sep 02 j 01:11	12° Ω 55'26		direct	-1183 May 17 j 21:34	25° Ω 05'21	
retrograde	-1190 Nov 27 j 12:17	14° Ω 47'05		evening set	-1183 Aug 16 j 18:38	27° Ω 01'39	

Attention, astronomical year style is used: The year -1183 in astronomical counting style is the year 1184 BCE in historical counting style.

max. Earth dist.	-1183 Aug 31 j 10:44	27°Ω34'10	31.30546 AU	conjunction	-1177 Sep 15 j 00:32	10°♊38'23	1°47'05
				minimum elong	-1177 Sep 15 j 00:31	10°♊38'23	1°47'06
conjunction	-1183 Sep 01 j 11:40	27°Ω36'29	1°32'25	morning rise	-1177 Sep 30 j 10:31	11°♊12'40	
minimum elong	-1183 Sep 01 j 11:40	27°Ω36'29	1°32'26	retrograde	-1177 Dec 26 j 00:34	13°♊04'36	
morning rise	-1183 Sep 17 j 01:01	28°Ω11'01		opposition	-1176 Mar 12 j 21:22	11°♊42'57	1°55'24
	-1183 Nov 30 j 01:25	0°♊		min. Earth dist.	-1176 Mar 13 j 17:55	11°♊41'33	29.34015 AU
retrograde	-1183 Dec 12 j 11:29	0°♊02'39		direct	-1176 Jun 02 j 04:25	10°♊18'13	
	-1183 Dec 24 j 23:04	30°♊Ω		evening set	-1176 Aug 31 j 21:52	12°♊14'24	
opposition	-1182 Feb 28 j 02:00	28°Ω40'55	1°40'12				
min. Earth dist.	-1182 Mar 01 j 01:30	28°Ω39'18	29.30820 AU	conjunction	-1176 Sep 16 j 10:37	12°♊48'56	1°49'01
direct	-1182 May 20 j 07:56	27°Ω15'51		minimum elong	-1176 Sep 16 j 10:37	12°♊48'56	1°49'00
evening set	-1182 Aug 19 j 05:32	29°Ω12'06		max. Earth dist.	-1176 Sep 15 j 12:41	12°♊46'53	31.34165 AU
				morning rise	-1176 Oct 01 j 19:56	13°♊23'12	
conjunction	-1182 Sep 03 j 21:58	29°Ω46'53	1°35'13	retrograde	-1176 Dec 27 j 10:14	15°♊15'12	
minimum elong	-1182 Sep 03 j 21:58	29°Ω46'53	1°35'13	opposition	-1175 Mar 15 j 08:53	13°♊53'34	1°57'23
max. Earth dist.	-1182 Sep 02 j 21:50	29°Ω44'38	31.30880 AU	min. Earth dist.	-1175 Mar 16 j 06:26	13°♊52'06	29.34559 AU
	-1182 Sep 09 j 18:44	0°♊		direct	-1175 Jun 04 j 16:07	12°♊28'55	
morning rise	-1182 Sep 19 j 10:42	0°♊21'22		evening set	-1175 Sep 03 j 08:32	14°♊25'05	
retrograde	-1182 Dec 14 j 19:47	2°♊13'01					
opposition	-1181 Mar 02 j 13:08	0°♊51'15	1°43'07	conjunction	-1175 Sep 18 j 20:38	14°♊59'34	1°50'47
min. Earth dist.	-1181 Mar 03 j 11:47	0°♊49'42	29.31169 AU	minimum elong	-1175 Sep 18 j 20:38	14°♊59'34	1°50'47
	-1181 Apr 04 j 23:48	30°♊Ω		max. Earth dist.	-1175 Sep 17 j 22:40	14°♊57'31	31.34654 AU
direct	-1181 May 22 j 20:59	29°Ω26'12		morning rise	-1175 Oct 04 j 05:29	15°♊33'48	
	-1181 Jul 08 j 07:11	0°♊		retrograde	-1175 Dec 29 j 21:18	17°♊25'51	
evening set	-1181 Aug 21 j 16:30	1°♊22'25		opposition	-1174 Mar 17 j 20:31	16°♊04'15	1°59'11
max. Earth dist.	-1181 Sep 05 j 07:40	1°♊54'52	31.31258 AU	min. Earth dist.	-1174 Mar 18 j 17:02	16°♊02'51	29.34978 AU
				direct	-1174 Jun 07 j 05:46	14°♊39'39	
conjunction	-1181 Sep 06 j 08:12	1°♊57'10	1°37'53	evening set	-1174 Sep 05 j 19:00	16°♊35'46	
minimum elong	-1181 Sep 06 j 08:11	1°♊57'10	1°37'53	max. Earth dist.	-1174 Sep 20 j 08:33	17°♊08'11	31.34995 AU
morning rise	-1181 Sep 21 j 20:24	2°♊31'36					
retrograde	-1181 Dec 17 j 05:45	4°♊23'16		conjunction	-1174 Sep 21 j 06:31	17°♊10'14	1°52'24
opposition	-1180 Mar 04 j 00:09	3°♊01'30	1°45'53	minimum elong	-1174 Sep 21 j 06:31	17°♊10'14	1°52'23
min. Earth dist.	-1180 Mar 04 j 22:35	2°♊59'58	29.31607 AU	morning rise	-1174 Oct 06 j 14:51	17°♊44'26	
direct	-1180 May 24 j 06:25	1°♊36'29		retrograde	-1173 Jan 01 j 07:38	19°♊36'33	
evening set	-1180 Aug 23 j 03:15	3°♊32'40		opposition	-1173 Mar 20 j 08:19	18°♊14'56	2°00'49
				min. Earth dist.	-1173 Mar 21 j 05:27	18°♊13'30	29.35258 AU
conjunction	-1180 Sep 07 j 18:29	4°♊07'23	1°40'24	direct	-1173 Jun 09 j 16:55	16°♊50'22	
minimum elong	-1180 Sep 07 j 18:29	4°♊07'23	1°40'24	evening set	-1173 Sep 08 j 05:27	18°♊46'27	
max. Earth dist.	-1180 Sep 06 j 19:23	4°♊05'13	31.31736 AU				
morning rise	-1180 Sep 23 j 05:59	4°♊41'46		conjunction	-1173 Sep 23 j 16:30	19°♊20'52	1°53'51
retrograde	-1180 Dec 18 j 14:40	6°♊33'30		minimum elong	-1173 Sep 23 j 16:30	19°♊20'52	1°53'51
opposition	-1179 Mar 06 j 11:24	5°♊11'44	1°48'30	max. Earth dist.	-1173 Sep 22 j 19:11	19°♊18'52	31.35195 AU
min. Earth dist.	-1179 Mar 07 j 09:39	5°♊10'13	29.32127 AU	morning rise	-1173 Oct 09 j 00:19	19°♊55'02	
direct	-1179 May 26 j 17:39	3°♊46'46		retrograde	-1172 Jan 03 j 15:53	21°♊47'12	
evening set	-1179 Aug 25 j 14:05	5°♊42'57		opposition	-1172 Mar 21 j 19:54	20°♊25'33	2°02'17
max. Earth dist.	-1179 Sep 09 j 04:51	6°♊15'24	31.32304 AU	min. Earth dist.	-1172 Mar 22 j 16:29	20°♊24'09	29.35373 AU
				direct	-1172 Jun 11 j 05:55	19°♊01'00	
conjunction	-1179 Sep 10 j 04:30	6°♊17'37	1°42'46	evening set	-1172 Sep 09 j 15:55	20°♊57'01	
minimum elong	-1179 Sep 10 j 04:30	6°♊17'37	1°42'47	max. Earth dist.	-1172 Sep 24 j 04:16	21°♊29'20	31.35238 AU
morning rise	-1179 Sep 25 j 15:34	6°♊51'59					
retrograde	-1179 Dec 21 j 02:15	8°♊43'45		conjunction	-1172 Sep 25 j 02:21	21°♊31'24	1°55'08
opposition	-1178 Mar 08 j 22:36	7°♊22'02	1°50'58	minimum elong	-1172 Sep 25 j 02:21	21°♊31'24	1°55'08
min. Earth dist.	-1178 Mar 09 j 19:52	7°♊20'35	29.32740 AU	morning rise	-1172 Oct 10 j 09:50	22°♊05'33	
direct	-1178 May 29 j 04:14	5°♊57'08		retrograde	-1171 Jan 05 j 01:50	23°♊57'45	
evening set	-1178 Aug 28 j 00:41	7°♊53'19		opposition	-1171 Mar 24 j 07:40	22°♊36'03	2°03'35
				min. Earth dist.	-1171 Mar 25 j 04:10	22°♊34'40	29.35359 AU
conjunction	-1178 Sep 12 j 14:40	8°♊27'56	1°45'00	direct	-1171 Jun 13 j 16:10	21°♊11'31	
minimum elong	-1178 Sep 12 j 14:40	8°♊27'56	1°45'01	evening set	-1171 Sep 12 j 02:02	23°♊07'26	
max. Earth dist.	-1178 Sep 11 j 16:32	8°♊25'52	31.32937 AU				
morning rise	-1178 Sep 28 j 01:00	9°♊02'16		conjunction	-1171 Sep 27 j 12:05	23°♊41'48	1°56'16
retrograde	-1178 Dec 23 j 12:43	10°♊54'07		minimum elong	-1171 Sep 27 j 12:05	23°♊41'48	1°56'16
opposition	-1177 Mar 11 j 10:02	9°♊32'26	1°53'16	max. Earth dist.	-1171 Sep 26 j 15:23	23°♊39'52	31.35162 AU
min. Earth dist.	-1177 Mar 12 j 07:47	9°♊30'57	29.33388 AU	morning rise	-1171 Oct 12 j 18:59	24°♊15'54	
direct	-1177 May 31 j 16:44	8°♊07'37		retrograde	-1170 Jan 07 j 10:30	26°♊08'09	
evening set	-1177 Aug 30 j 11:17	10°♊03'48		opposition	-1170 Mar 26 j 19:33	24°♊46'24	2°04'42
max. Earth dist.	-1177 Sep 14 j 01:52	10°♊36'16	31.33585 AU	min. Earth dist.	-1170 Mar 27 j 16:00	24°♊45'01	29.35234 AU
				direct	-1170 Jun 16 j 04:13	23°♊21'52	

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Attention, astronomical year style is used: The year -1170 in astronomical counting style is the year 1171 BCE in historical counting style.

evening set	-1170 Sep 14 j 12:12	25° <u>17</u> 42		conjunction	-1164 Oct 12 j 05:35	8° <u>52</u> '13	1°59'28
				minimum elong	-1164 Oct 12 j 05:35	8° <u>52</u> '13	1°59'27
conjunction	-1170 Sep 29 j 21:35	25° <u>17</u> 52'01	1°57'13	max. Earth dist.	-1164 Oct 11 j 13:48	8° <u>50</u> '44	31.34917 AU
minimum elong	-1170 Sep 29 j 21:35	25° <u>17</u> 52'01	1°57'13	morning rise	-1164 Oct 27 j 10:10	9° <u>26</u> '12	
max. Earth dist.	-1170 Sep 29 j 00:25	25° <u>17</u> 50'02	31.35017 AU	retrograde	-1163 Jan 22 j 11:49	11° <u>19</u> '04	
morning rise	-1170 Oct 15 j 04:16	26° <u>17</u> 26'06		opposition	-1163 Apr 11 j 07:08	9° <u>57</u> '08	2°07'30
retrograde	-1169 Jan 09 j 21:31	28° <u>18</u> '23		min. Earth dist.	-1163 Apr 11 j 22:32	9° <u>56</u> '06	29.35055 AU
opposition	-1169 Mar 29 j 07:18	26° <u>17</u> 56'34	2°05'39	direct	-1163 Jul 01 j 14:10	8° <u>33</u> '00	
min. Earth dist.	-1169 Mar 30 j 02:37	26° <u>17</u> 55'15	29.35086 AU	evening set	-1163 Sep 29 j 08:16	10° <u>28</u> '28	
direct	-1169 Jun 18 j 15:02	25° <u>17</u> 32'02					
evening set	-1169 Sep 16 j 21:57	27° <u>17</u> 27'47		conjunction	-1163 Oct 14 j 14:45	11° <u>02</u> '38	1°59'14
max. Earth dist.	-1169 Oct 01 j 11:33	28° <u>17</u> 00'14	31.34863 AU	minimum elong	-1163 Oct 14 j 14:45	11° <u>02</u> '37	1°59'14
				max. Earth dist.	-1163 Oct 13 j 22:35	11° <u>01</u> '06	31.34894 AU
conjunction	-1169 Oct 02 j 07:03	28° <u>17</u> 02'04	1°58'01	morning rise	-1163 Oct 29 j 19:11	11° <u>36</u> '37	
minimum elong	-1169 Oct 02 j 07:03	28° <u>17</u> 02'04	1°58'02	retrograde	-1162 Jan 24 j 22:34	13° <u>29</u> '36	
morning rise	-1169 Oct 17 j 13:12	28° <u>17</u> 36'07		opposition	-1162 Apr 13 j 19:29	12° <u>07</u> '40	2°07'10
	-1169 Dec 02 j 01:02	0° <u>28</u> '		min. Earth dist.	-1162 Apr 14 j 10:26	12° <u>06</u> '39	29.34988 AU
retrograde	-1168 Jan 12 j 07:09	0° <u>28</u> '28		direct	-1162 Jul 04 j 00:18	10° <u>43</u> '36	
	-1168 Feb 24 j 02:16	30° <u>18</u> '		evening set	-1162 Oct 01 j 17:51	12° <u>39</u> '01	
opposition	-1168 Mar 30 j 19:12	29° <u>17</u> 06'35	2°06'25	max. Earth dist.	-1162 Oct 16 j 09:32	13° <u>11</u> '48	31.34762 AU
min. Earth dist.	-1168 Mar 31 j 14:40	29° <u>17</u> 05'16	29.34950 AU				
direct	-1168 Jun 20 j 02:52	27° <u>17</u> 42'04		conjunction	-1162 Oct 17 j 00:10	13° <u>13</u> '10	1°58'51
evening set	-1168 Sep 18 j 07:52	29° <u>17</u> 37'45		minimum elong	-1162 Oct 17 j 00:10	13° <u>13</u> '10	1°58'50
	-1168 Sep 28 j 08:19	0° <u>28</u> '		morning rise	-1162 Nov 01 j 04:14	13° <u>47</u> '09	
				retrograde	-1161 Jan 27 j 08:02	15° <u>40</u> '16	
conjunction	-1168 Oct 03 j 16:21	0° <u>28</u> '12'00	1°58'39	opposition	-1161 Apr 16 j 07:50	14° <u>18</u> '18	2°06'40
minimum elong	-1168 Oct 03 j 16:21	0° <u>28</u> '12'00	1°58'38	min. Earth dist.	-1161 Apr 16 j 22:42	14° <u>17</u> '18	29.34783 AU
max. Earth dist.	-1168 Oct 02 j 20:50	0° <u>28</u> '10'10	31.34761 AU	direct	-1161 Jul 06 j 11:59	12° <u>54</u> '18	
morning rise	-1168 Oct 18 j 22:15	0° <u>28</u> '46'02		evening set	-1161 Oct 04 j 03:31	14° <u>49</u> '40	
retrograde	-1167 Jan 13 j 18:31	2° <u>28</u> '38'27					
opposition	-1167 Apr 02 j 06:56	1° <u>28</u> '16'32	2°07'00	conjunction	-1161 Oct 19 j 09:22	15° <u>23</u> '48	1°58'17
min. Earth dist.	-1167 Apr 03 j 00:34	1° <u>28</u> '15'20	29.34884 AU	minimum elong	-1161 Oct 19 j 09:22	15° <u>23</u> '48	1°58'17
	-1167 May 31 j 02:19	30° <u>18</u> '		max. Earth dist.	-1161 Oct 18 j 18:09	15° <u>22</u> '22	31.34489 AU
direct	-1167 Jun 22 j 14:06	29° <u>17</u> 52'03		morning rise	-1161 Nov 03 j 13:26	15° <u>57</u> '47	
	-1167 Jul 14 j 20:09	0° <u>28</u> '		retrograde	-1160 Jan 29 j 19:30	17° <u>51</u> '00	
evening set	-1167 Sep 20 j 17:38	1° <u>28</u> '47'41		opposition	-1160 Apr 17 j 20:10	16° <u>29</u> '00	2°05'58
max. Earth dist.	-1167 Oct 05 j 07:28	2° <u>28</u> '20'11	31.34732 AU	min. Earth dist.	-1160 Apr 18 j 09:58	16° <u>28</u> '04	29.34432 AU
				direct	-1160 Jul 07 j 22:36	15° <u>05</u> '03	
conjunction	-1167 Oct 06 j 01:46	2° <u>28</u> '21'54	1°59'07	evening set	-1160 Oct 05 j 13:01	17° <u>00</u> '20	
minimum elong	-1167 Oct 06 j 01:45	2° <u>28</u> '21'54	1°59'07				
morning rise	-1167 Oct 21 j 07:13	2° <u>28</u> '55'55		conjunction	-1160 Oct 20 j 18:44	17° <u>34</u> '27	1°57'33
retrograde	-1166 Jan 16 j 04:40	4° <u>28</u> '48'27		minimum elong	-1160 Oct 20 j 18:44	17° <u>34</u> '27	1°57'32
opposition	-1166 Apr 04 j 19:01	3° <u>26</u> '30	2°07'24	max. Earth dist.	-1160 Oct 20 j 04:50	17° <u>33</u> '09	31.34052 AU
min. Earth dist.	-1166 Apr 05 j 12:53	3° <u>25</u> '17	29.34899 AU	morning rise	-1160 Nov 04 j 22:26	18° <u>08</u> '26	
direct	-1166 Jun 25 j 01:38	2° <u>28</u> '02'05		retrograde	-1159 Jan 31 j 05:35	20° <u>01</u> '46	
evening set	-1166 Sep 23 j 03:14	3° <u>28</u> '57'40		opposition	-1159 Apr 20 j 08:39	18° <u>39</u> '42	2°05'06
				min. Earth dist.	-1159 Apr 20 j 22:50	18° <u>38</u> '44	29.33917 AU
conjunction	-1166 Oct 08 j 10:56	4° <u>28</u> '31'52	1°59'24	direct	-1159 Jul 10 j 09:52	17° <u>15</u> '46	
minimum elong	-1166 Oct 08 j 10:56	4° <u>28</u> '31'52	1°59'23	evening set	-1159 Oct 07 j 22:34	19° <u>10</u> '58	
max. Earth dist.	-1166 Oct 07 j 17:29	4° <u>28</u> '30'14	31.34787 AU				
morning rise	-1166 Oct 23 j 16:07	5° <u>28</u> '05'52		conjunction	-1159 Oct 23 j 03:55	19° <u>45</u> '04	1°56'39
retrograde	-1165 Jan 18 j 15:52	6° <u>28</u> '58'30		minimum elong	-1159 Oct 23 j 03:55	19° <u>45</u> '04	1°56'39
opposition	-1165 Apr 07 j 06:59	5° <u>28</u> '36'33	2°07'37	max. Earth dist.	-1159 Oct 22 j 13:54	19° <u>43</u> '45	31.33485 AU
min. Earth dist.	-1165 Apr 07 j 23:12	5° <u>28</u> '35'27	29.34963 AU	morning rise	-1159 Nov 07 j 07:37	20° <u>19</u> '03	
direct	-1165 Jun 27 j 14:48	4° <u>28</u> '12'14		retrograde	-1158 Feb 02 j 17:14	22° <u>12</u> '28	
evening set	-1165 Sep 25 j 12:56	6° <u>28</u> '07'46		opposition	-1158 Apr 22 j 21:03	20° <u>50</u> '19	2°04'04
				min. Earth dist.	-1158 Apr 23 j 09:35	20° <u>49</u> '29	29.33286 AU
conjunction	-1165 Oct 10 j 20:13	6° <u>28</u> '41'58	1°59'31	direct	-1158 Jul 12 j 20:35	19° <u>26</u> '24	
minimum elong	-1165 Oct 10 j 20:13	6° <u>28</u> '41'58	1°59'31	evening set	-1158 Oct 10 j 07:47	21° <u>21</u> '30	
max. Earth dist.	-1165 Oct 10 j 03:10	6° <u>28</u> '40'22	31.34859 AU				
morning rise	-1165 Oct 26 j 01:09	7° <u>28</u> '15'58		conjunction	-1158 Oct 25 j 12:59	21° <u>55</u> '35	1°55'35
retrograde	-1164 Jan 21 j 02:49	9° <u>28</u> '08'42		minimum elong	-1158 Oct 25 j 12:59	21° <u>55</u> '36	1°55'35
opposition	-1164 Apr 08 j 18:57	7° <u>28</u> '46'46	2°07'39	max. Earth dist.	-1158 Oct 24 j 23:57	21° <u>54</u> '22	31.32809 AU
min. Earth dist.	-1164 Apr 09 j 11:20	7° <u>28</u> '45'39	29.35039 AU	morning rise	-1158 Nov 09 j 16:32	22° <u>29</u> '35	
direct	-1164 Jun 29 j 01:29	6° <u>28</u> '22'32		retrograde	-1157 Feb 05 j 03:52	24° <u>23</u> '04	
evening set	-1164 Sep 26 j 22:35	8° <u>28</u> '18'03		opposition	-1157 Apr 25 j 09:36	23° <u>00</u> '50	2°02'51
				min. Earth dist.	-1157 Apr 25 j 22:29	22° <u>59</u> '58	29.32585 AU

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Attention, astronomical year style is used: The year -1157 in astronomical counting style is the year 1158 BCE in historical counting style.

direct	-1157 Jul 15 j 08:42	21° <u>♂</u> 36'55		minimum elong	-1151 Nov 09 j 03:39	7° <u>♂</u> 07'51	1°43'40
evening set	-1157 Oct 12 j 17:02	23° <u>♂</u> 31'54		max. Earth dist.	-1151 Nov 08 j 21:51	7° <u>♂</u> 07'18	31.29099 AU
				morning rise	-1151 Nov 24 j 07:03	7° <u>♂</u> 41'55	
conjunction	-1157 Oct 27 j 22:02	24° <u>♂</u> 05'59	1°54'22	retrograde	-1150 Feb 20 j 06:01	9° <u>♂</u> 36'11	
minimum elong	-1157 Oct 27 j 22:02	24° <u>♂</u> 05'59	1°54'22	opposition	-1150 May 11 j 01:23	8° <u>♂</u> 13'34	1°49'32
max. Earth dist.	-1157 Oct 27 j 10:00	24° <u>♂</u> 04'51	31.32105 AU	min. Earth dist.	-1150 May 11 j 07:26	8° <u>♂</u> 13'09	29.28976 AU
morning rise	-1157 Nov 12 j 01:30	24° <u>♂</u> 39'58		direct	-1150 Jul 30 j 17:41	6° <u>♂</u> 50'00	
retrograde	-1156 Feb 07 j 15:29	26° <u>♂</u> 33'31		evening set	-1150 Oct 27 j 08:30	8° <u>♂</u> 44'25	
opposition	-1156 Apr 26 j 21:49	25° <u>♂</u> 11'12	2°01'27				
min. Earth dist.	-1156 Apr 27 j 08:56	25° <u>♂</u> 10'27	29.31877 AU	conjunction	-1150 Nov 11 j 12:36	9° <u>♂</u> 18'31	1°41'21
direct	-1156 Jul 16 j 22:04	23° <u>♂</u> 47'17		minimum elong	-1150 Nov 11 j 12:37	9° <u>♂</u> 18'32	1°41'20
evening set	-1156 Oct 14 j 02:16	25° <u>♂</u> 42'10		max. Earth dist.	-1150 Nov 11 j 07:04	9° <u>♂</u> 18'00	31.28641 AU
				morning rise	-1150 Nov 26 j 16:11	9° <u>♂</u> 52'36	
conjunction	-1156 Oct 29 j 07:00	26° <u>♂</u> 16'15	1°52'59	retrograde	-1149 Feb 22 j 18:13	11° <u>♂</u> 47'01	
minimum elong	-1156 Oct 29 j 07:00	26° <u>♂</u> 16'15	1°52'58	opposition	-1149 May 13 j 14:07	10° <u>♂</u> 24'22	1°46'58
max. Earth dist.	-1156 Oct 28 j 19:30	26° <u>♂</u> 15'10	31.31421 AU	min. Earth dist.	-1149 May 13 j 18:24	10° <u>♂</u> 24'04	29.28463 AU
morning rise	-1156 Nov 13 j 10:26	26° <u>♂</u> 50'14		direct	-1149 Aug 02 j 04:05	9° <u>♂</u> 00'51	
retrograde	-1155 Feb 09 j 02:34	28° <u>♂</u> 43'54		evening set	-1149 Oct 29 j 17:42	10° <u>♂</u> 55'13	
opposition	-1155 Apr 29 j 10:22	27° <u>♂</u> 21'28	1°59'54				
min. Earth dist.	-1155 Apr 29 j 21:08	27° <u>♂</u> 20'45	29.31236 AU	conjunction	-1149 Nov 13 j 21:47	11° <u>♂</u> 29'20	1°38'53
direct	-1155 Jul 19 j 09:02	25° <u>♂</u> 57'35		minimum elong	-1149 Nov 13 j 21:47	11° <u>♂</u> 29'20	1°38'52
evening set	-1155 Oct 16 j 11:15	27° <u>♂</u> 52'23		max. Earth dist.	-1149 Nov 13 j 16:56	11° <u>♂</u> 28'52	31.28068 AU
				morning rise	-1149 Nov 29 j 01:25	12° <u>♂</u> 03'26	
conjunction	-1155 Oct 31 j 15:55	28° <u>♂</u> 26'27	1°51'27	retrograde	-1148 Feb 25 j 05:47	13° <u>♂</u> 57'59	
minimum elong	-1155 Oct 31 j 15:55	28° <u>♂</u> 26'27	1°51'26	opposition	-1148 May 15 j 02:57	12° <u>♂</u> 35'17	1°44'15
max. Earth dist.	-1155 Oct 31 j 06:18	28° <u>♂</u> 25'33	31.30827 AU	min. Earth dist.	-1148 May 15 j 07:42	12° <u>♂</u> 34'57	29.27829 AU
morning rise	-1155 Nov 15 j 19:12	29° <u>♂</u> 00'27		direct	-1148 Aug 03 j 15:15	11° <u>♂</u> 11'49	
	-1155 Dec 15 j 08:30	0° <u>♂</u>		evening set	-1148 Oct 31 j 02:55	13° <u>♂</u> 06'07	
retrograde	-1154 Feb 11 j 11:38	0° <u>♂</u> 54'12					
	-1154 Apr 14 j 03:02	30° <u>♂</u>		conjunction	-1148 Nov 15 j 07:02	13° <u>♂</u> 40'14	1°36'16
opposition	-1154 May 01 j 22:53	29° <u>♂</u> 31'43	1°58'10	minimum elong	-1148 Nov 15 j 07:02	13° <u>♂</u> 40'14	1°36'15
min. Earth dist.	-1154 May 02 j 08:02	29° <u>♂</u> 31'06	29.30678 AU	max. Earth dist.	-1148 Nov 15 j 03:06	13° <u>♂</u> 39'52	31.27377 AU
direct	-1154 Jul 21 j 22:04	28° <u>♂</u> 07'52		morning rise	-1148 Nov 30 j 10:45	14° <u>♂</u> 14'21	
	-1154 Oct 17 j 16:12	0° <u>♂</u>			-1148 Dec 22 j 08:16	15° <u>♂</u>	
evening set	-1154 Oct 18 j 20:24	0° <u>♂</u> 02'35		retrograde	-1147 Feb 26 j 18:17	16° <u>♂</u> 09'01	
					-1147 May 09 j 03:04	15° <u>♂</u>	
conjunction	-1154 Nov 03 j 00:47	0° <u>♂</u> 36'40	1°49'44	opposition	-1147 May 17 j 15:51	14° <u>♂</u> 46'16	1°41'23
minimum elong	-1154 Nov 03 j 00:47	0° <u>♂</u> 36'40	1°49'44	min. Earth dist.	-1147 May 17 j 19:01	14° <u>♂</u> 46'03	29.27055 AU
max. Earth dist.	-1154 Nov 02 j 15:13	0° <u>♂</u> 35'46	31.30325 AU	direct	-1147 Aug 06 j 03:54	13° <u>♂</u> 22'50	
morning rise	-1154 Nov 18 j 04:12	1° <u>♂</u> 10'40			-1147 Oct 25 j 15:32	15° <u>♂</u>	
retrograde	-1153 Feb 13 j 22:47	3° <u>♂</u> 04'32		evening set	-1147 Nov 02 j 12:04	15° <u>♂</u> 17'03	
opposition	-1153 May 04 j 11:18	1° <u>♂</u> 42'00	1°56'15				
min. Earth dist.	-1153 May 04 j 19:26	1° <u>♂</u> 41'27	29.30222 AU	conjunction	-1147 Nov 17 j 16:06	15° <u>♂</u> 51'11	1°33'31
direct	-1153 Jul 24 j 08:53	0° <u>♂</u> 18'13		minimum elong	-1147 Nov 17 j 16:06	15° <u>♂</u> 51'11	1°33'31
evening set	-1153 Oct 21 j 05:19	2° <u>♂</u> 12'51		max. Earth dist.	-1147 Nov 17 j 12:14	15° <u>♂</u> 50'49	31.26541 AU
				morning rise	-1147 Dec 02 j 20:04	16° <u>♂</u> 25'20	
conjunction	-1153 Nov 05 j 09:47	2° <u>♂</u> 46'56	1°47'52	retrograde	-1146 Mar 01 j 06:21	18° <u>♂</u> 20'07	
minimum elong	-1153 Nov 05 j 09:47	2° <u>♂</u> 46'56	1°47'52	opposition	-1146 May 20 j 04:55	16° <u>♂</u> 57'17	1°38'23
max. Earth dist.	-1153 Nov 05 j 02:17	2° <u>♂</u> 46'14	31.29902 AU	min. Earth dist.	-1146 May 20 j 08:07	16° <u>♂</u> 57'04	29.26160 AU
morning rise	-1153 Nov 20 j 13:05	3° <u>♂</u> 20'58		direct	-1146 Aug 08 j 14:39	15° <u>♂</u> 33'53	
retrograde	-1152 Feb 16 j 08:29	5° <u>♂</u> 14'57		evening set	-1146 Nov 04 j 21:07	17° <u>♂</u> 28'00	
opposition	-1152 May 05 j 23:54	3° <u>♂</u> 52'23	1°54'11				
min. Earth dist.	-1152 May 06 j 07:26	3° <u>♂</u> 51'53	29.29807 AU	conjunction	-1146 Nov 20 j 01:22	18° <u>♂</u> 02'09	1°30'38
direct	-1152 Jul 25 j 20:56	2° <u>♂</u> 28'40		minimum elong	-1146 Nov 20 j 01:22	18° <u>♂</u> 02'09	1°30'37
evening set	-1152 Oct 22 j 14:24	4° <u>♂</u> 23'14		max. Earth dist.	-1146 Nov 19 j 23:06	18° <u>♂</u> 01'56	31.25599 AU
				morning rise	-1146 Dec 05 j 05:23	18° <u>♂</u> 36'19	
conjunction	-1152 Nov 06 j 18:35	4° <u>♂</u> 57'19	1°45'51	retrograde	-1145 Mar 03 j 16:29	20° <u>♂</u> 31'12	
minimum elong	-1152 Nov 06 j 18:35	4° <u>♂</u> 57'19	1°45'50	opposition	-1145 May 22 j 17:41	19° <u>♂</u> 08'16	1°35'14
max. Earth dist.	-1152 Nov 06 j 11:07	4° <u>♂</u> 56'37	31.29509 AU	min. Earth dist.	-1145 May 22 j 19:40	19° <u>♂</u> 08'08	29.25165 AU
morning rise	-1152 Nov 21 j 22:04	5° <u>♂</u> 31'22		direct	-1145 Aug 11 j 03:57	17° <u>♂</u> 44'52	
retrograde	-1151 Feb 17 j 19:44	7° <u>♂</u> 25'29		evening set	-1145 Nov 07 j 06:14	19° <u>♂</u> 38'54	
opposition	-1151 May 08 j 12:30	6° <u>♂</u> 02'54	1°51'56				
min. Earth dist.	-1151 May 08 j 18:30	6° <u>♂</u> 02'30	29.29411 AU	conjunction	-1145 Nov 22 j 10:23	20° <u>♂</u> 13'03	1°27'37
direct	-1151 Jul 28 j 07:08	4° <u>♂</u> 39'15		minimum elong	-1145 Nov 22 j 10:23	20° <u>♂</u> 13'03	1°27'37
evening set	-1151 Oct 24 j 23:25	6° <u>♂</u> 33'45		max. Earth dist.	-1145 Nov 22 j 07:55	20° <u>♂</u> 12'49	31.24590 AU
				morning rise	-1145 Dec 07 j 14:47	20° <u>♂</u> 47'15	
conjunction	-1151 Nov 09 j 03:39	7° <u>♂</u> 07'51	1°43'41	retrograde	-1144 Mar 05 j 04:30	22° <u>♂</u> 42'14	

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Attention, astronomical year style is used: The year -1144 in astronomical counting style is the year 1145 BCE in historical counting style.

opposition	-1144 May 24 j 06:34	21° $\overline{\text{M}}$.19'12	1°31'57	conjunction	-1138 Dec 07 j 02:31	5° $\overline{\text{A}}$.31'03	1°03'13
min. Earth dist.	-1144 May 24 j 07:40	21° $\overline{\text{M}}$.19'08	29.24150 AU	minimum elong	-1138 Dec 07 j 02:31	5° $\overline{\text{A}}$.31'04	1°03'12
direct	-1144 Aug 12 j 15:25	19° $\overline{\text{M}}$.55'49		max. Earth dist.	-1138 Dec 07 j 07:32	5° $\overline{\text{A}}$.31'32	31.19031 AU
evening set	-1144 Nov 08 j 15:05	21° $\overline{\text{M}}$.49'45		morning rise	-1138 Dec 22 j 08:42	6° $\overline{\text{A}}$.05'29	
				retrograde	-1137 Mar 21 j 14:13	8° $\overline{\text{A}}$.01'26	
conjunction	-1144 Nov 23 j 19:27	22° $\overline{\text{M}}$.23'56	1°24'29	opposition	-1137 Jun 10 j 01:15	6° $\overline{\text{A}}$.38'04	1°05'27
minimum elong	-1144 Nov 23 j 19:27	22° $\overline{\text{M}}$.23'56	1°24'28	min. Earth dist.	-1137 Jun 09 j 19:36	6° $\overline{\text{A}}$.38'26	29.18709 AU
max. Earth dist.	-1144 Nov 23 j 19:07	22° $\overline{\text{M}}$.23'54	31.23581 AU	direct	-1137 Aug 28 j 18:25	5° $\overline{\text{A}}$.15'02	
morning rise	-1144 Dec 08 j 23:51	22° $\overline{\text{M}}$.58'09		evening set	-1137 Nov 24 j 06:46	7° $\overline{\text{A}}$.08'32	
retrograde	-1143 Mar 07 j 14:27	24° $\overline{\text{M}}$.53'15					
opposition	-1143 May 26 j 19:31	23° $\overline{\text{M}}$.30'08	1°28'32	conjunction	-1137 Dec 09 j 12:07	7° $\overline{\text{A}}$.42'52	0°59'18
min. Earth dist.	-1143 May 26 j 19:48	23° $\overline{\text{M}}$.30'07	29.23161 AU	minimum elong	-1137 Dec 09 j 12:07	7° $\overline{\text{A}}$.42'52	0°59'18
direct	-1143 Aug 15 j 03:58	22° $\overline{\text{M}}$.06'46		max. Earth dist.	-1137 Dec 09 j 18:43	7° $\overline{\text{A}}$.43'30	31.18285 AU
evening set	-1143 Nov 11 j 00:10	24° $\overline{\text{M}}$.00'36		morning rise	-1137 Dec 24 j 18:27	8° $\overline{\text{A}}$.17'20	
				retrograde	-1136 Mar 23 j 02:08	10° $\overline{\text{A}}$.13'25	
conjunction	-1143 Nov 26 j 04:27	24° $\overline{\text{M}}$.34'47	1°21'14	opposition	-1136 Jun 11 j 14:21	8° $\overline{\text{A}}$.50'00	1°01'13
minimum elong	-1143 Nov 26 j 04:28	24° $\overline{\text{M}}$.34'47	1°21'13	min. Earth dist.	-1136 Jun 11 j 07:35	8° $\overline{\text{A}}$.50'27	29.17899 AU
max. Earth dist.	-1143 Nov 26 j 04:24	24° $\overline{\text{M}}$.34'47	31.22644 AU	direct	-1136 Aug 30 j 07:43	7° $\overline{\text{A}}$.27'01	
morning rise	-1143 Dec 11 j 09:14	25° $\overline{\text{M}}$.09'03		evening set	-1136 Nov 25 j 16:12	9° $\overline{\text{A}}$.20'28	
retrograde	-1142 Mar 10 j 01:42	27° $\overline{\text{M}}$.04'16					
opposition	-1142 May 29 j 08:23	25° $\overline{\text{M}}$.41'05	1°24'59	conjunction	-1136 Dec 10 j 21:34	9° $\overline{\text{A}}$.54'49	0°55'18
min. Earth dist.	-1142 May 29 j 06:51	25° $\overline{\text{M}}$.41'11	29.22271 AU	minimum elong	-1136 Dec 10 j 21:34	9° $\overline{\text{A}}$.54'49	0°55'17
direct	-1142 Aug 17 j 14:26	24° $\overline{\text{M}}$.17'45		max. Earth dist.	-1136 Dec 11 j 03:43	9° $\overline{\text{A}}$.55'24	31.17422 AU
evening set	-1142 Nov 13 j 09:02	26° $\overline{\text{M}}$.11'30		morning rise	-1136 Dec 26 j 04:23	10° $\overline{\text{A}}$.29'19	
				retrograde	-1135 Mar 25 j 16:09	12° $\overline{\text{A}}$.25'32	
conjunction	-1142 Nov 28 j 13:34	26° $\overline{\text{M}}$.45'43	1°17'51	opposition	-1135 Jun 14 j 03:37	11° $\overline{\text{A}}$.02'03	0°56'54
minimum elong	-1142 Nov 28 j 13:34	26° $\overline{\text{M}}$.45'43	1°17'50	min. Earth dist.	-1135 Jun 13 j 20:17	11° $\overline{\text{A}}$.02'32	29.16973 AU
max. Earth dist.	-1142 Nov 28 j 15:20	26° $\overline{\text{M}}$.45'53	31.21799 AU	direct	-1135 Sep 01 j 19:22	9° $\overline{\text{A}}$.39'05	
morning rise	-1142 Dec 13 j 18:30	27° $\overline{\text{M}}$.20'01		evening set	-1135 Nov 28 j 01:37	11° $\overline{\text{A}}$.32'28	
retrograde	-1141 Mar 12 j 11:51	29° $\overline{\text{M}}$.15'22					
opposition	-1141 May 31 j 21:21	27° $\overline{\text{M}}$.52'07	1°21'19	conjunction	-1135 Dec 13 j 07:23	12° $\overline{\text{A}}$.06'51	0°51'13
min. Earth dist.	-1141 May 31 j 19:31	27° $\overline{\text{M}}$.52'15	29.21469 AU	minimum elong	-1135 Dec 13 j 07:23	12° $\overline{\text{A}}$.06'51	0°51'13
direct	-1141 Aug 20 j 00:55	26° $\overline{\text{M}}$.28'51		max. Earth dist.	-1135 Dec 13 j 15:06	12° $\overline{\text{A}}$.07'35	31.16423 AU
evening set	-1141 Nov 15 j 18:05	28° $\overline{\text{M}}$.22'32		morning rise	-1135 Dec 28 j 14:24	12° $\overline{\text{A}}$.41'23	
				retrograde	-1134 Mar 28 j 02:55	14° $\overline{\text{A}}$.37'43	
conjunction	-1141 Nov 30 j 22:41	28° $\overline{\text{M}}$.56'47	1°14'22	opposition	-1134 Jun 16 j 16:50	13° $\overline{\text{A}}$.14'08	0°52'30
minimum elong	-1141 Nov 30 j 22:41	28° $\overline{\text{M}}$.56'47	1°14'21	min. Earth dist.	-1134 Jun 16 j 09:13	13° $\overline{\text{A}}$.14'39	29.15898 AU
max. Earth dist.	-1141 Dec 01 j 01:09	28° $\overline{\text{M}}$.57'01	31.21053 AU	direct	-1134 Sep 04 j 07:55	11° $\overline{\text{A}}$.51'11	
morning rise	-1141 Dec 16 j 03:55	29° $\overline{\text{M}}$.31'06		evening set	-1134 Nov 30 j 11:08	13° $\overline{\text{A}}$.44'28	
	-1141 Dec 29 j 15:06	0° $\overline{\text{A}}$					
retrograde	-1140 Mar 14 j 00:08	1° $\overline{\text{A}}$.26'35		conjunction	-1134 Dec 15 j 17:02	14° $\overline{\text{A}}$.18'53	0°47'04
opposition	-1140 Jun 02 j 10:06	0° $\overline{\text{A}}$.03'19	1°17'31	minimum elong	-1134 Dec 15 j 17:03	14° $\overline{\text{A}}$.18'53	0°47'03
min. Earth dist.	-1140 Jun 02 j 06:08	0° $\overline{\text{A}}$.03'35	29.20750 AU	max. Earth dist.	-1134 Dec 16 j 00:32	14° $\overline{\text{A}}$.19'35	31.15296 AU
	-1140 Jun 04 j 11:13	30° $\overline{\text{R}}$. $\overline{\text{M}}$		morning rise	-1134 Dec 31 j 00:35	14° $\overline{\text{A}}$.53'28	
direct	-1140 Aug 21 j 10:57	28° $\overline{\text{M}}$.40'06		retrograde	-1133 Mar 30 j 15:00	16° $\overline{\text{A}}$.49'52	
	-1140 Nov 01 j 06:00	0° $\overline{\text{A}}$		opposition	-1133 Jun 19 j 05:58	15° $\overline{\text{A}}$.26'12	0°48'01
evening set	-1140 Nov 17 j 03:11	0° $\overline{\text{A}}$.33'45		min. Earth dist.	-1133 Jun 18 j 21:10	15° $\overline{\text{A}}$.26'48	29.14709 AU
				direct	-1133 Sep 06 j 19:29	14° $\overline{\text{A}}$.03'14	
conjunction	-1140 Dec 02 j 07:54	1° $\overline{\text{A}}$.08'00	1°10'45	evening set	-1133 Dec 02 j 20:34	15° $\overline{\text{A}}$.56'25	
minimum elong	-1140 Dec 02 j 07:54	1° $\overline{\text{A}}$.08'00	1°10'44				
max. Earth dist.	-1140 Dec 02 j 11:21	1° $\overline{\text{A}}$.08'20	31.20363 AU	conjunction	-1133 Dec 18 j 02:47	16° $\overline{\text{A}}$.30'52	0°42'51
morning rise	-1140 Dec 17 j 13:25	1° $\overline{\text{A}}$.42'22		minimum elong	-1133 Dec 18 j 02:47	16° $\overline{\text{A}}$.30'52	0°42'50
retrograde	-1139 Mar 16 j 12:13	3° $\overline{\text{A}}$.38'01		max. Earth dist.	-1133 Dec 18 j 11:32	16° $\overline{\text{A}}$.31'41	31.14056 AU
opposition	-1139 Jun 04 j 23:13	2° $\overline{\text{A}}$.14'42	1°13'37	morning rise	-1132 Jan 02 j 10:35	17° $\overline{\text{A}}$.05'28	
min. Earth dist.	-1139 Jun 04 j 19:17	2° $\overline{\text{A}}$.14'58	29.20081 AU	retrograde	-1132 Apr 01 j 01:24	19° $\overline{\text{A}}$.01'58	
direct	-1139 Aug 23 j 21:28	0° $\overline{\text{A}}$.51'34		opposition	-1132 Jun 20 j 19:06	17° $\overline{\text{A}}$.38'11	0°43'28
evening set	-1139 Nov 19 j 12:09	2° $\overline{\text{A}}$.45'09		min. Earth dist.	-1132 Jun 20 j 10:25	17° $\overline{\text{A}}$.38'47	29.13440 AU
				direct	-1132 Sep 08 j 07:13	16° $\overline{\text{A}}$.15'12	
conjunction	-1139 Dec 04 j 17:07	3° $\overline{\text{A}}$.19'26	1°07'02	evening set	-1132 Dec 04 j 06:02	18° $\overline{\text{A}}$.08'18	
minimum elong	-1139 Dec 04 j 17:07	3° $\overline{\text{A}}$.19'26	1°07'02				
max. Earth dist.	-1139 Dec 04 j 22:02	3° $\overline{\text{A}}$.19'54	31.19713 AU	conjunction	-1132 Dec 19 j 12:29	18° $\overline{\text{A}}$.42'45	0°38'34
morning rise	-1139 Dec 19 j 22:52	3° $\overline{\text{A}}$.53'49		minimum elong	-1132 Dec 19 j 12:29	18° $\overline{\text{A}}$.42'45	0°38'32
retrograde	-1138 Mar 19 j 01:22	5° $\overline{\text{A}}$.49'37		max. Earth dist.	-1132 Dec 19 j 21:54	18° $\overline{\text{A}}$.43'39	31.12795 AU
opposition	-1138 Jun 07 j 12:14	4° $\overline{\text{A}}$.26'17	1°09'35	morning rise	-1131 Jan 03 j 20:42	19° $\overline{\text{A}}$.17'24	
min. Earth dist.	-1138 Jun 07 j 06:31	4° $\overline{\text{A}}$.26'40	29.19413 AU	retrograde	-1131 Apr 03 j 13:46	21° $\overline{\text{A}}$.14'00	
direct	-1138 Aug 26 j 08:49	3° $\overline{\text{A}}$.03'12		opposition	-1131 Jun 23 j 08:10	19° $\overline{\text{A}}$.50'06	0°38'51
evening set	-1138 Nov 21 j 21:30	4° $\overline{\text{A}}$.56'45		min. Earth dist.	-1131 Jun 22 j 21:29	19° $\overline{\text{A}}$.50'50	29.12184 AU

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Attention, astronomical year style is used: The year -1131 in astronomical counting style is the year 1132 BCE in historical counting style.

direct	-1131 Sep 10 j 18:28	18° \nearrow 27'05		direct	-1125 Sep 24 j 12:37	1° \searrow 40'25	
evening set	-1131 Dec 06 j 15:27	20° \nearrow 20'06		evening set	-1125 Dec 20 j 01:39	3° \searrow 33'17	
conjunction	-1131 Dec 21 j 22:07	20° \nearrow 54'35	0°34'13	conjunction	-1124 Jan 04 j 10:06	4° \searrow 07'58	0°07'18
minimum elong	-1131 Dec 21 j 22:07	20° \nearrow 54'35	0°34'12	minimum elong	-1124 Jan 04 j 10:05	4° \searrow 07'58	0°07'17
max. Earth dist.	-1131 Dec 22 j 08:22	20° \nearrow 55'33	31.11557 AU	behind sun begin	-1124 Jan 04 j 04:12	4° \searrow 07'25	
morning rise	-1130 Jan 06 j 06:46	21° \nearrow 29'17		behind sun end	-1124 Jan 04 j 15:59	4° \searrow 08'30	
retrograde	-1130 Apr 06 j 01:10	23° \nearrow 25'59		max. Earth dist.	-1124 Jan 05 j 01:32	4° \searrow 09'25	31.05797 AU
opposition	-1130 Jun 25 j 21:21	22° \nearrow 01'59	0°34'11	morning rise	-1124 Jan 19 j 21:12	4° \searrow 42'54	
min. Earth dist.	-1130 Jun 25 j 10:42	22° \nearrow 02'43	29.10988 AU	retrograde	-1124 Apr 19 j 07:45	6° \searrow 40'25	
direct	-1130 Sep 13 j 04:54	20° \nearrow 38'58		min. Earth dist.	-1124 Jul 08 j 11:06	5° \searrow 17'17	29.05353 AU
evening set	-1130 Dec 09 j 00:58	22° \nearrow 31'56		opposition	-1124 Jul 09 j 03:26	5° \searrow 16'10	0°05'15
conjunction	-1130 Dec 24 j 08:01	23° \nearrow 06'26	0°29'50	direct	-1124 Sep 26 j 00:04	3° \searrow 53'21	
minimum elong	-1130 Dec 24 j 08:01	23° \nearrow 06'26	0°29'48	evening set	-1124 Dec 21 j 11:47	5° \searrow 46'14	
max. Earth dist.	-1130 Dec 24 j 19:50	23° \nearrow 07'33	31.10410 AU	conjunction	-1123 Jan 05 j 20:34	6° \searrow 20'57	0°02'44
morning rise	-1129 Jan 08 j 16:58	23° \nearrow 41'09		minimum elong	-1123 Jan 05 j 20:35	6° \searrow 20'57	0°02'42
retrograde	-1129 Apr 08 j 13:38	25° \nearrow 37'58		behind sun begin	-1123 Jan 05 j 14:11	6° \searrow 20'22	
opposition	-1129 Jun 28 j 10:09	24° \nearrow 13'54	0°29'28	behind sun end	-1123 Jan 06 j 02:59	6° \searrow 21'31	
min. Earth dist.	-1129 Jun 27 j 21:35	24° \nearrow 14'45	29.09884 AU	max. Earth dist.	-1123 Jan 06 j 13:01	6° \searrow 22'30	31.04858 AU
direct	-1129 Sep 15 j 15:56	22° \nearrow 50'53		morning rise	-1123 Jan 21 j 08:03	6° \searrow 55'55	
evening set	-1129 Dec 11 j 10:37	24° \nearrow 43'49		retrograde	-1123 Apr 21 j 19:54	8° \searrow 53'35	
conjunction	-1129 Dec 26 j 17:49	25° \nearrow 18'21	0°25'23	opposition	-1123 Jul 11 j 16:39	7° \searrow 29'17	0°00'21
minimum elong	-1129 Dec 26 j 17:49	25° \nearrow 18'21	0°25'23	min. Earth dist.	-1123 Jul 11 j 00:44	7° \searrow 30'22	29.04372 AU
max. Earth dist.	-1129 Dec 27 j 05:48	25° \nearrow 19'29	31.09356 AU	desc. node	-1123 Aug 06 j 21:09	6° \searrow 48'16	
morning rise	-1128 Jan 11 j 03:18	25° \nearrow 53'07		direct	-1123 Sep 28 j 11:48	6° \searrow 06'30	
retrograde	-1128 Apr 10 j 02:48	27° \nearrow 50'04		evening set	-1123 Dec 23 j 22:00	7° \searrow 59'21	
opposition	-1128 Jun 29 j 23:15	26° \nearrow 25'56	0°24'42	conjunction	-1122 Jan 08 j 07:11	8° \searrow 34'06	-0°01'59
min. Earth dist.	-1128 Jun 29 j 10:29	26° \nearrow 26'48	29.08886 AU	minimum elong	-1122 Jan 08 j 07:10	8° \searrow 34'06	0°02'00
direct	-1128 Sep 17 j 01:18	25° \nearrow 02'57		behind sun begin	-1122 Jan 08 j 00:45	8° \searrow 33'31	
evening set	-1128 Dec 12 j 20:03	26° \nearrow 55'51		behind sun end	-1122 Jan 08 j 13:35	8° \searrow 34'41	
conjunction	-1128 Dec 28 j 03:42	27° \nearrow 30'25	0°20'55	max. Earth dist.	-1122 Jan 08 j 23:50	8° \searrow 35'40	31.03829 AU
minimum elong	-1128 Dec 28 j 03:42	27° \nearrow 30'25	0°20'54	morning rise	-1122 Jan 23 j 19:04	9° \searrow 09'07	
max. Earth dist.	-1128 Dec 28 j 17:41	27° \nearrow 31'44	31.08403 AU	retrograde	-1122 Apr 24 j 09:05	11° \searrow 06'53	
morning rise	-1127 Jan 12 j 13:26	28° \nearrow 05'13		opposition	-1122 Jul 14 j 05:43	9° \searrow 42'33	-0°04'34
	-1127 Mar 31 j 17:31	0° \searrow		min. Earth dist.	-1122 Jul 13 j 12:25	9° \searrow 43'44	29.03279 AU
retrograde	-1127 Apr 12 j 15:29	0° \searrow 02'19		direct	-1122 Sep 30 j 23:24	8° \searrow 19'45	
	-1127 Apr 24 j 15:53	30° \nwarrow		evening set	-1122 Dec 26 j 08:26	10° \searrow 12'35	
opposition	-1127 Jul 02 j 12:19	28° \nearrow 38'09	0°19'53	conjunction	-1121 Jan 10 j 17:52	10° \searrow 47'21	-0°06'35
min. Earth dist.	-1127 Jul 01 j 22:04	28° \nearrow 39'07	29.07964 AU	minimum elong	-1121 Jan 10 j 17:52	10° \searrow 47'21	0°06'36
direct	-1127 Sep 19 j 14:00	27° \nearrow 15'12		behind sun begin	-1121 Jan 10 j 11:50	10° \searrow 46'48	
evening set	-1127 Dec 15 j 05:52	29° \nearrow 08'06		behind sun end	-1121 Jan 10 j 23:54	10° \searrow 47'54	
conjunction	-1127 Dec 30 j 13:39	29° \nearrow 42'42	0°16'24	max. Earth dist.	-1121 Jan 11 j 10:33	10° \searrow 48'55	31.02667 AU
minimum elong	-1127 Dec 30 j 13:39	29° \nearrow 42'42	0°16'24	morning rise	-1121 Jan 26 j 06:16	11° \searrow 22'25	
max. Earth dist.	-1127 Dec 31 j 03:27	29° \nearrow 44'00	31.07520 AU	retrograde	-1121 Apr 26 j 20:10	13° \searrow 20'17	
	-1126 Jan 07 j 04:20	0° \searrow		opposition	-1121 Jul 16 j 18:44	11° \searrow 55'51	-0°09'28
morning rise	-1126 Jan 14 j 23:59	0° \searrow 17'32		min. Earth dist.	-1121 Jul 16 j 02:09	11° \searrow 56'59	29.02067 AU
retrograde	-1126 Apr 15 j 06:30	2° \searrow 14'46		direct	-1121 Oct 03 j 09:51	10° \searrow 33'02	
min. Earth dist.	-1126 Jul 04 j 10:26	0° \searrow 51'35	29.07108 AU	evening set	-1121 Dec 28 j 18:45	12° \searrow 25'49	
opposition	-1126 Jul 05 j 01:20	0° \searrow 50'35	0°15'02	conjunction	-1120 Jan 13 j 04:40	13° \searrow 00'37	-0°11'08
	-1126 Aug 07 j 07:05	30° \nwarrow		minimum elong	-1120 Jan 13 j 04:40	13° \searrow 00'37	0°11'09
direct	-1126 Sep 22 j 00:46	29° \nearrow 27'41		behind sun begin	-1120 Jan 12 j 23:51	13° \searrow 00'11	
	-1126 Nov 05 j 00:08	0° \searrow		behind sun end	-1120 Jan 13 j 09:29	13° \searrow 01'03	
evening set	-1126 Dec 17 j 15:38	1° \searrow 20'34		max. Earth dist.	-1120 Jan 13 j 22:25	13° \searrow 02'18	31.01416 AU
conjunction	-1125 Jan 01 j 23:54	1° \searrow 55'12	0°11'52	morning rise	-1120 Jan 28 j 17:24	13° \searrow 35'42	
minimum elong	-1125 Jan 01 j 23:54	1° \searrow 55'12	0°11'50	retrograde	-1120 Apr 28 j 08:26	15° \searrow 33'40	
behind sun begin	-1125 Jan 01 j 19:21	1° \searrow 54'48		opposition	-1120 Jul 18 j 07:41	14° \searrow 09'08	-0°14'21
behind sun end	-1125 Jan 02 j 04:26	1° \searrow 55'37		min. Earth dist.	-1120 Jul 17 j 13:43	14° \searrow 10'22	29.00778 AU
max. Earth dist.	-1125 Jan 02 j 15:27	1° \searrow 56'40	31.06667 AU	direct	-1120 Oct 04 j 20:58	12° \searrow 46'16	
morning rise	-1125 Jan 17 j 10:30	2° \searrow 30'06		evening set	-1120 Dec 30 j 05:04	14° \searrow 39'01	
retrograde	-1125 Apr 17 j 18:10	4° \searrow 27'28		conjunction	-1119 Jan 14 j 15:11	15° \searrow 13'50	-0°15'41
opposition	-1125 Jul 07 j 14:24	3° \searrow 03'15	0°10'09	minimum elong	-1119 Jan 14 j 15:11	15° \searrow 13'50	0°15'43
min. Earth dist.	-1125 Jul 06 j 23:07	3° \searrow 04'18	29.06247 AU	behind sun begin	-1119 Jan 14 j 13:37	15° \searrow 13'42	

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Attention, astronomical year style is used: The year -1119 in astronomical counting style is the year 1120 BCE in historical counting style.

behind sun end	-1119 Jan 14 j 16:45	15° $\overline{3}$ 13'59		opposition	-1113 Aug 04 j 01:12	29° $\overline{3}$ 41'53	-0°47'36
max. Earth dist.	-1119 Jan 15 j 08:44	15° $\overline{3}$ 15'30	31.00112 AU	direct	-1113 Oct 21 j 04:43	28° $\overline{3}$ 18'54	
morning rise	-1119 Jan 30 j 04:31	15° $\overline{3}$ 48'57			-1112 Jan 10 j 00:17	0° \approx	
retrograde	-1119 Apr 30 j 21:31	17° $\overline{3}$ 47'00		evening set	-1112 Jan 15 j 07:39	0° \approx 11'37	
opposition	-1119 Jul 20 j 20:45	16° $\overline{3}$ 22'21	-0°19'13				
min. Earth dist.	-1119 Jul 20 j 03:01	16° $\overline{3}$ 23'34	28.99488 AU	conjunction	-1112 Jan 30 j 20:21	0° \approx 46'38	-0°46'37
direct	-1119 Oct 07 j 06:44	14° $\overline{3}$ 59'26		minimum elong	-1112 Jan 30 j 20:21	0° \approx 46'38	0°46'38
evening set	-1118 Jan 01 j 15:25	16° $\overline{3}$ 52'08		max. Earth dist.	-1112 Jan 31 j 18:51	0° \approx 48'46	30.93455 AU
				morning rise	-1112 Feb 15 j 12:42	1° \approx 22'00	
conjunction	-1118 Jan 17 j 02:03	17° $\overline{3}$ 26'59	-0°20'13	retrograde	-1112 May 16 j 17:53	3° \approx 20'39	
minimum elong	-1118 Jan 17 j 02:03	17° $\overline{3}$ 26'59	0°20'13	opposition	-1112 Aug 05 j 14:04	1° \approx 55'39	-0°52'09
max. Earth dist.	-1118 Jan 17 j 21:20	17° $\overline{3}$ 28'48	30.98838 AU	min. Earth dist.	-1112 Aug 04 j 16:20	1° \approx 57'09	28.93179 AU
morning rise	-1118 Feb 01 j 15:40	18° $\overline{3}$ 02'08		direct	-1112 Oct 22 j 14:59	0° \approx 32'42	
retrograde	-1118 May 03 j 10:02	20° $\overline{3}$ 00'14		evening set	-1111 Jan 16 j 18:40	2° \approx 25'25	
opposition	-1118 Jul 23 j 09:29	18° $\overline{3}$ 35'30	-0°24'03				
min. Earth dist.	-1118 Jul 22 j 14:33	18° $\overline{3}$ 36'48	28.98249 AU	conjunction	-1111 Feb 01 j 07:53	3° \approx 00'29	-0°50'50
direct	-1118 Oct 09 j 19:28	17° $\overline{3}$ 12'32		minimum elong	-1111 Feb 01 j 07:53	3° \approx 00'29	0°50'51
evening set	-1117 Jan 04 j 01:58	19° $\overline{3}$ 05'13		max. Earth dist.	-1111 Feb 02 j 07:23	3° \approx 02'42	30.92804 AU
				morning rise	-1111 Feb 17 j 00:32	3° \approx 35'53	
conjunction	-1117 Jan 19 j 12:49	19° $\overline{3}$ 40'05	-0°24'43	retrograde	-1111 May 19 j 07:11	5° \approx 34'37	
minimum elong	-1117 Jan 19 j 12:49	19° $\overline{3}$ 40'05	0°24'45	min. Earth dist.	-1111 Aug 07 j 03:59	4° \approx 11'12	28.92507 AU
max. Earth dist.	-1117 Jan 20 j 07:43	19° $\overline{3}$ 41'52	30.97647 AU	opposition	-1111 Aug 08 j 02:47	4° \approx 09'37	-0°56'37
morning rise	-1117 Feb 04 j 03:02	20° $\overline{3}$ 15'16		direct	-1111 Oct 25 j 02:16	2° \approx 46'40	
retrograde	-1117 May 06 j 00:44	22° $\overline{3}$ 13'27		evening set	-1110 Jan 19 j 06:11	4° \approx 39'27	
opposition	-1117 Jul 25 j 22:18	20° $\overline{3}$ 48'37	-0°28'51				
min. Earth dist.	-1117 Jul 25 j 02:48	20° $\overline{3}$ 49'57	28.97125 AU	conjunction	-1110 Feb 03 j 19:38	5° \approx 14'32	-0°54'58
direct	-1117 Oct 12 j 05:52	19° $\overline{3}$ 25'37		minimum elong	-1110 Feb 03 j 19:37	5° \approx 14'32	0°54'58
evening set	-1116 Jan 06 j 12:23	21° $\overline{3}$ 18'17		max. Earth dist.	-1110 Feb 04 j 18:21	5° \approx 16'41	30.92092 AU
				morning rise	-1110 Feb 19 j 12:52	5° \approx 49'58	
conjunction	-1116 Jan 21 j 23:42	21° $\overline{3}$ 53'11	-0°29'12	retrograde	-1110 May 21 j 20:32	7° \approx 48'48	
minimum elong	-1116 Jan 21 j 23:41	21° $\overline{3}$ 53'11	0°29'12	opposition	-1110 Aug 10 j 15:32	6° \approx 23'46	-1°01'00
max. Earth dist.	-1116 Jan 22 j 20:23	21° $\overline{3}$ 55'08	30.96572 AU	min. Earth dist.	-1110 Aug 09 j 17:36	6° \approx 25'17	28.91766 AU
morning rise	-1116 Feb 06 j 14:10	22° $\overline{3}$ 28'24		direct	-1110 Oct 27 j 11:52	5° \approx 00'49	
retrograde	-1116 May 07 j 12:25	24° $\overline{3}$ 26'39		evening set	-1109 Jan 21 j 17:39	6° \approx 53'37	
opposition	-1116 Jul 27 j 11:05	23° $\overline{3}$ 01'46	-0°33'37				
min. Earth dist.	-1116 Jul 26 j 14:59	23° $\overline{3}$ 03'09	28.96117 AU	conjunction	-1109 Feb 06 j 07:39	7° \approx 28'44	-0°59'02
direct	-1116 Oct 13 j 17:33	21° $\overline{3}$ 38'45		minimum elong	-1109 Feb 06 j 07:39	7° \approx 28'44	0°59'03
evening set	-1115 Jan 07 j 23:02	23° $\overline{3}$ 31'24		max. Earth dist.	-1109 Feb 07 j 07:22	7° \approx 30'59	30.91293 AU
				morning rise	-1109 Feb 22 j 01:09	8° \approx 04'12	
conjunction	-1115 Jan 23 j 10:38	24° $\overline{3}$ 06'20	-0°33'37	retrograde	-1109 May 24 j 09:11	10° \approx 03'06	
minimum elong	-1115 Jan 23 j 10:38	24° $\overline{3}$ 06'20	0°33'39	min. Earth dist.	-1109 Aug 12 j 05:45	8° \approx 39'36	28.90912 AU
max. Earth dist.	-1115 Jan 24 j 07:23	24° $\overline{3}$ 08'17	30.95642 AU	opposition	-1109 Aug 13 j 04:13	8° \approx 38'02	-1°05'17
morning rise	-1115 Feb 08 j 01:40	24° $\overline{3}$ 41'35		direct	-1109 Oct 30 j 00:13	7° \approx 15'04	
retrograde	-1115 May 10 j 03:21	26° $\overline{3}$ 39'56		evening set	-1108 Jan 24 j 05:12	9° \approx 07'53	
opposition	-1115 Jul 29 j 23:50	25° $\overline{3}$ 14'59	-0°38'20				
min. Earth dist.	-1115 Jul 29 j 02:34	25° $\overline{3}$ 16'27	28.95259 AU	conjunction	-1108 Feb 08 j 19:26	9° \approx 43'01	-1°03'00
direct	-1115 Oct 16 j 05:20	23° $\overline{3}$ 51'58		minimum elong	-1108 Feb 08 j 19:26	9° \approx 43'01	1°03'00
evening set	-1114 Jan 10 j 09:42	25° $\overline{3}$ 44'37		max. Earth dist.	-1108 Feb 09 j 18:04	9° \approx 45'10	30.90394 AU
				morning rise	-1108 Feb 24 j 13:31	10° \approx 18'31	
conjunction	-1114 Jan 25 j 21:44	26° $\overline{3}$ 19'35	-0°38'01	retrograde	-1108 May 25 j 23:45	12° \approx 17'29	
minimum elong	-1114 Jan 25 j 21:44	26° $\overline{3}$ 19'35	0°38'01	opposition	-1108 Aug 14 j 16:58	10° \approx 52'21	-1°09'29
max. Earth dist.	-1114 Jan 26 j 19:39	26° $\overline{3}$ 21'40	30.94829 AU	min. Earth dist.	-1108 Aug 13 j 18:40	10° \approx 53'54	28.89983 AU
morning rise	-1114 Feb 10 j 13:10	26° $\overline{3}$ 54'53		direct	-1108 Oct 31 j 10:31	9° \approx 29'20	
retrograde	-1114 May 12 j 16:14	28° $\overline{3}$ 53'19		evening set	-1107 Jan 25 j 16:46	11° \approx 22'10	
opposition	-1114 Aug 01 j 12:39	27° $\overline{3}$ 28'21	-0°43'00				
min. Earth dist.	-1114 Jul 31 j 15:37	27° $\overline{3}$ 29'48	28.94502 AU	conjunction	-1107 Feb 10 j 07:32	11° \approx 57'20	-1°06'52
direct	-1114 Oct 18 j 17:11	26° $\overline{3}$ 05'21		minimum elong	-1107 Feb 10 j 07:31	11° \approx 57'20	1°06'54
evening set	-1113 Jan 12 j 20:35	27° $\overline{3}$ 58'01		max. Earth dist.	-1107 Feb 11 j 07:17	11° \approx 59'35	30.89430 AU
				morning rise	-1107 Feb 26 j 01:54	12° \approx 32'51	
conjunction	-1113 Jan 28 j 09:01	28° $\overline{3}$ 33'01	-0°42'21	retrograde	-1107 May 28 j 12:04	14° \approx 31'52	
minimum elong	-1113 Jan 28 j 09:00	28° $\overline{3}$ 33'01	0°42'22	min. Earth dist.	-1107 Aug 16 j 07:15	13° \approx 08'13	28.89012 AU
max. Earth dist.	-1113 Jan 29 j 07:21	28° $\overline{3}$ 35'08	30.94120 AU	opposition	-1107 Aug 17 j 05:30	13° \approx 06'40	-1°13'34
morning rise	-1113 Feb 13 j 00:52	29° $\overline{3}$ 08'20		direct	-1107 Nov 02 j 22:15	11° \approx 43'36	
	-1113 Mar 10 j 00:51	0° \approx		evening set	-1106 Jan 28 j 04:27	13° \approx 36'27	
retrograde	-1113 May 15 j 05:49	1° \approx 06'52					
	-1113 Jul 24 j 00:28	30° \overline{R} $\overline{3}$		conjunction	-1106 Feb 12 j 19:33	14° \approx 11'38	-1°10'39
min. Earth dist.	-1113 Aug 03 j 02:46	29° $\overline{3}$ 43'26	28.93826 AU	minimum elong	-1106 Feb 12 j 19:32	14° \approx 11'38	1°10'40

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Attention, astronomical year style is used: The year -1106 in astronomical counting style is the year 1107 BCE in historical counting style.

max. Earth dist.	-1106 Feb 13 j 18:47	14° \approx 13'50	30.88471 AU		-1100 Jul 12 j 10:56	30° \approx	
morning rise	-1106 Feb 28 j 14:28	14° \approx 47'11		opposition	-1100 Sep 01 j 19:40	28° \approx 47'56	-1°38'48
	-1106 Mar 06 j 11:22	15° \approx		min. Earth dist.	-1100 Aug 31 j 19:53	28° \approx 49'36	28.84774 AU
retrograde	-1106 May 31 j 03:32	16° \approx 46'13		direct	-1100 Nov 18 j 06:53	27° \approx 24'44	
opposition	-1106 Aug 19 j 17:58	15° \approx 20'57	-1°17'33	evening set	-1099 Feb 12 j 16:30	29° \approx 17'52	
min. Earth dist.	-1106 Aug 18 j 19:08	15° \approx 22'32	28.88078 AU				
	-1106 Sep 01 j 10:43	15° \approx		conjunction	-1099 Feb 28 j 10:23	29° \approx 53'15	-1°33'49
direct	-1106 Nov 05 j 10:36	13° \approx 57'50		minimum elong	-1099 Feb 28 j 10:22	29° \approx 53'14	1°33'50
	-1105 Jan 06 j 01:29	15° \approx		max. Earth dist.	-1099 Mar 01 j 10:59	29° \approx 55'34	30.84538 AU
evening set	-1105 Jan 30 j 16:13	15° \approx 50'41			-1099 Mar 03 j 09:55	0° \approx	
				morning rise	-1099 Mar 16 j 08:10	0° \approx 28'59	
conjunction	-1105 Feb 15 j 07:43	16° \approx 25'55	-1°14'19	retrograde	-1099 Jun 15 j 23:59	2° \approx 28'18	
minimum elong	-1105 Feb 15 j 07:43	16° \approx 25'55	1°14'20	min. Earth dist.	-1099 Sep 03 j 08:37	1° \approx 04'35	28.84514 AU
max. Earth dist.	-1105 Feb 16 j 07:44	16° \approx 28'11	30.87551 AU	opposition	-1099 Sep 04 j 07:54	1° \approx 02'58	-1°41'51
morning rise	-1105 Mar 03 j 02:58	17° \approx 01'29			-1099 Oct 16 j 18:17	30° \approx	
retrograde	-1105 Jun 02 j 16:25	19° \approx 00'33		direct	-1099 Nov 20 j 16:11	29° \approx 39'45	
min. Earth dist.	-1105 Aug 21 j 08:01	17° \approx 36'47	28.87214 AU		-1099 Dec 24 j 23:37	0° \approx	
opposition	-1105 Aug 22 j 06:18	17° \approx 35'14	-1°21'25	evening set	-1098 Feb 15 j 05:06	1° \approx 32'57	
direct	-1105 Nov 07 j 22:48	16° \approx 12'04					
evening set	-1104 Feb 02 j 03:58	18° \approx 04'57		conjunction	-1098 Mar 02 j 23:31	2° \approx 08'22	-1°36'36
				minimum elong	-1098 Mar 02 j 23:31	2° \approx 08'22	1°36'36
conjunction	-1104 Feb 17 j 19:54	18° \approx 40'12	-1°17'52	max. Earth dist.	-1098 Mar 04 j 00:50	2° \approx 10'45	30.84248 AU
minimum elong	-1104 Feb 17 j 19:54	18° \approx 40'12	1°17'52	morning rise	-1098 Mar 18 j 21:34	2° \approx 44'07	
max. Earth dist.	-1104 Feb 18 j 20:07	18° \approx 42'29	30.86750 AU	retrograde	-1098 Jun 18 j 12:36	4° \approx 43'28	
morning rise	-1104 Mar 04 j 15:33	19° \approx 15'48		opposition	-1098 Sep 06 j 20:08	3° \approx 18'08	-1°44'45
retrograde	-1104 Jun 04 j 06:26	21° \approx 14'54		min. Earth dist.	-1098 Sep 05 j 21:20	3° \approx 19'44	28.84193 AU
opposition	-1104 Aug 23 j 18:36	19° \approx 49'33	-1°25'10	direct	-1098 Nov 23 j 03:52	1° \approx 54'55	
min. Earth dist.	-1104 Aug 22 j 19:00	19° \approx 51'11	28.86482 AU	evening set	-1097 Feb 17 j 17:55	3° \approx 48'11	
direct	-1104 Nov 09 j 10:48	18° \approx 26'21					
evening set	-1103 Feb 03 j 15:48	20° \approx 19'16		conjunction	-1097 Mar 05 j 12:39	4° \approx 23'36	-1°39'14
				minimum elong	-1097 Mar 05 j 12:39	4° \approx 23'36	1°39'15
conjunction	-1103 Feb 19 j 08:03	20° \approx 54'32	-1°21'19	max. Earth dist.	-1097 Mar 06 j 12:42	4° \approx 25'52	30.83886 AU
minimum elong	-1103 Feb 19 j 08:02	20° \approx 54'32	1°21'20	morning rise	-1097 Mar 21 j 11:10	4° \approx 59'23	
max. Earth dist.	-1103 Feb 20 j 08:22	20° \approx 56'50	30.86072 AU	retrograde	-1097 Jun 21 j 03:44	6° \approx 58'44	
morning rise	-1103 Mar 07 j 04:11	21° \approx 30'10		min. Earth dist.	-1097 Sep 08 j 09:34	5° \approx 34'59	28.83788 AU
retrograde	-1103 Jun 06 j 19:03	23° \approx 29'19		opposition	-1097 Sep 09 j 08:17	5° \approx 33'24	-1°47'29
min. Earth dist.	-1103 Aug 25 j 08:09	22° \approx 05'32	28.85883 AU	direct	-1097 Nov 25 j 15:56	4° \approx 10'07	
opposition	-1103 Aug 26 j 07:02	22° \approx 03'56	-1°28'47	evening set	-1096 Feb 20 j 06:45	6° \approx 03'26	
direct	-1103 Nov 11 j 21:42	20° \approx 40'44					
evening set	-1102 Feb 06 j 03:44	22° \approx 33'41		conjunction	-1096 Mar 07 j 01:57	6° \approx 38'53	-1°41'43
				minimum elong	-1096 Mar 07 j 01:57	6° \approx 38'53	1°41'43
conjunction	-1102 Feb 21 j 20:33	23° \approx 08'59	-1°24'38	max. Earth dist.	-1096 Mar 08 j 02:04	6° \approx 41'10	30.83417 AU
minimum elong	-1102 Feb 21 j 20:33	23° \approx 08'59	1°24'38	morning rise	-1096 Mar 23 j 00:48	7° \approx 14'41	
max. Earth dist.	-1102 Feb 22 j 21:47	23° \approx 11'22	30.85541 AU	retrograde	-1096 Jun 22 j 16:21	9° \approx 14'02	
morning rise	-1102 Mar 09 j 17:00	23° \approx 44'38		opposition	-1096 Sep 10 j 20:32	7° \approx 48'39	-1°50'04
retrograde	-1102 Jun 09 j 09:10	25° \approx 43'49		min. Earth dist.	-1096 Sep 09 j 22:59	7° \approx 50'10	28.83276 AU
opposition	-1102 Aug 28 j 19:06	24° \approx 18'26	-1°32'16	direct	-1096 Nov 27 j 04:00	6° \approx 25'20	
min. Earth dist.	-1102 Aug 27 j 19:05	24° \approx 20'06	28.85415 AU	evening set	-1095 Feb 21 j 19:32	8° \approx 18'40	
direct	-1102 Nov 14 j 09:23	22° \approx 55'13					
evening set	-1101 Feb 08 j 15:57	24° \approx 48'14		conjunction	-1095 Mar 09 j 15:13	8° \approx 54'08	-1°44'03
				minimum elong	-1095 Mar 09 j 15:13	8° \approx 54'08	1°44'04
conjunction	-1101 Feb 24 j 09:00	25° \approx 23'33	-1°27'50	max. Earth dist.	-1095 Mar 10 j 14:41	8° \approx 56'21	30.82874 AU
minimum elong	-1101 Feb 24 j 09:00	25° \approx 23'33	1°27'51	morning rise	-1095 Mar 25 j 14:30	9° \approx 29'58	
max. Earth dist.	-1101 Feb 25 j 09:36	25° \approx 25'53	30.85127 AU	retrograde	-1095 Jun 25 j 07:14	11° \approx 29'16	
morning rise	-1101 Mar 12 j 06:01	25° \approx 59'14		min. Earth dist.	-1095 Sep 12 j 10:33	10° \approx 05'23	28.82698 AU
retrograde	-1101 Jun 11 j 21:28	27° \approx 58'28		opposition	-1095 Sep 13 j 08:34	10° \approx 03'51	-1°52'28
min. Earth dist.	-1101 Aug 30 j 08:13	26° \approx 34'43	28.85063 AU	direct	-1095 Nov 29 j 16:43	8° \approx 40'26	
opposition	-1101 Aug 31 j 07:27	26° \approx 33'06	-1°35'36	evening set	-1094 Feb 24 j 08:33	10° \approx 33'48	
direct	-1101 Nov 16 j 19:08	25° \approx 09'53					
evening set	-1100 Feb 11 j 03:59	27° \approx 02'57		conjunction	-1094 Mar 12 j 04:36	11° \approx 09'18	-1°46'13
				minimum elong	-1094 Mar 12 j 04:35	11° \approx 09'18	1°46'13
conjunction	-1100 Feb 26 j 21:36	27° \approx 38'18	-1°30'53	max. Earth dist.	-1094 Mar 13 j 03:27	11° \approx 11'27	30.82269 AU
minimum elong	-1100 Feb 26 j 21:36	27° \approx 38'18	1°30'54	morning rise	-1094 Mar 28 j 04:18	11° \approx 45'08	
max. Earth dist.	-1100 Feb 27 j 23:24	27° \approx 40'44	30.84810 AU	retrograde	-1094 Jun 27 j 20:28	13° \approx 44'23	
morning rise	-1100 Mar 13 j 18:50	28° \approx 14'01		opposition	-1094 Sep 15 j 20:29	12° \approx 18'55	-1°54'42
	-1100 May 15 j 19:31	0° \approx		min. Earth dist.	-1094 Sep 14 j 23:50	12° \approx 20'22	28.82099 AU
retrograde	-1100 Jun 13 j 09:34	0° \approx 13'18		direct	-1094 Dec 02 j 04:37	10° \approx 55'26	

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Attention, astronomical year style is used: The year -1093 in astronomical counting style is the year 1094 BCE in historical counting style.

evening set	-1093 Feb 26 j 21:27	12° ✕ 48'49		min. Earth dist.	-1087 Sep 30 j 11:17	28° ✕ 05'23	28.80623 AU
				opposition	-1087 Oct 01 j 06:10	28° ✕ 04'03	-2°05'16
conjunction	-1093 Mar 14 j 18:03	13° ✕ 24'21	-1°48'14	direct	-1087 Dec 17 j 11:40	26° ✕ 40'20	
minimum elong	-1093 Mar 14 j 18:03	13° ✕ 24'21	1°48'14	evening set	-1086 Mar 14 j 17:51	28° ✕ 34'12	
max. Earth dist.	-1093 Mar 15 j 17:12	13° ✕ 26'32	30.81685 AU				
morning rise	-1093 Mar 30 j 18:02	14° ✕ 00'12		conjunction	-1086 Mar 30 j 17:24	29° ✕ 09'54	-1°57'31
retrograde	-1093 Jun 30 j 10:36	15° ✕ 59'24		minimum elong	-1086 Mar 30 j 17:24	29° ✕ 09'54	1°57'30
min. Earth dist.	-1093 Sep 17 j 10:53	14° ✕ 35'24	28.81540 AU	max. Earth dist.	-1086 Mar 31 j 14:18	29° ✕ 11'52	30.80546 AU
opposition	-1093 Sep 18 j 08:16	14° ✕ 33'54	-1°56'46	morning rise	-1086 Apr 15 j 19:58	29° ✕ 45'54	
direct	-1093 Dec 04 j 17:36	13° ✕ 10'21			-1086 Apr 22 j 08:03	0° ∇	
evening set	-1092 Feb 29 j 10:22	15° ✕ 03'45		retrograde	-1086 Jul 16 j 05:57	1° ∇ 44'52	
				opposition	-1086 Oct 03 j 17:31	0° ∇ 19'32	-2°06'01
conjunction	-1092 Mar 16 j 07:13	15° ✕ 39'18	-1°50'05	min. Earth dist.	-1086 Oct 02 j 22:29	0° ∇ 20'53	28.80744 AU
minimum elong	-1092 Mar 16 j 07:13	15° ✕ 39'18	1°50'04		-1086 Oct 15 j 08:14	30° ✕ 8	
max. Earth dist.	-1092 Mar 17 j 05:29	15° ✕ 41'24	30.81159 AU	direct	-1086 Dec 19 j 23:58	28° ✕ 55'48	
morning rise	-1092 Apr 01 j 07:42	16° ✕ 15'11			-1085 Feb 21 j 01:13	0° ∇	
retrograde	-1092 Jul 01 j 22:42	18° ✕ 14'20		evening set	-1085 Mar 17 j 07:37	0° ∇ 49'46	
opposition	-1092 Sep 19 j 20:10	16° ✕ 48'48	-1°58'39				
min. Earth dist.	-1092 Sep 18 j 23:48	16° ✕ 50'14	28.81077 AU	conjunction	-1085 Apr 02 j 07:30	1° ∇ 25'30	-1°58'08
direct	-1092 Dec 06 j 04:06	15° ✕ 25'11		minimum elong	-1085 Apr 02 j 07:30	1° ∇ 25'30	1°58'08
evening set	-1091 Mar 02 j 23:20	17° ✕ 18'39		max. Earth dist.	-1085 Apr 03 j 03:32	1° ∇ 27'23	30.80637 AU
				morning rise	-1085 Apr 18 j 10:24	2° ∇ 01'31	
conjunction	-1091 Mar 18 j 20:47	17° ✕ 54'13	-1°51'45	retrograde	-1085 Jul 18 j 19:44	4° ∇ 00'26	
minimum elong	-1091 Mar 18 j 20:47	17° ✕ 54'13	1°51'46	min. Earth dist.	-1085 Oct 05 j 11:49	2° ∇ 36'22	28.80811 AU
max. Earth dist.	-1091 Mar 19 j 19:57	17° ✕ 56'23	30.80750 AU	opposition	-1085 Oct 06 j 05:10	2° ∇ 35'08	-2°06'35
morning rise	-1091 Apr 03 j 21:29	18° ✕ 30'07		direct	-1085 Dec 22 j 12:10	1° ∇ 11'24	
retrograde	-1091 Jul 04 j 10:54	20° ✕ 29'13		evening set	-1084 Mar 18 j 21:11	3° ∇ 05'25	
min. Earth dist.	-1091 Sep 21 j 10:59	19° ✕ 05'08	28.80730 AU				
opposition	-1091 Sep 22 j 07:45	19° ✕ 03'40	-2°00'21	conjunction	-1084 Apr 03 j 21:37	3° ∇ 41'11	-1°58'34
direct	-1091 Dec 08 j 16:12	17° ✕ 40'01		minimum elong	-1084 Apr 03 j 21:37	3° ∇ 41'11	1°58'33
evening set	-1090 Mar 05 j 12:33	19° ✕ 33'32		max. Earth dist.	-1084 Apr 04 j 17:12	3° ∇ 43'01	30.80670 AU
				morning rise	-1084 Apr 20 j 00:48	4° ∇ 17'12	
conjunction	-1090 Mar 21 j 10:17	20° ✕ 09'07	-1°53'15	retrograde	-1084 Jul 20 j 10:06	6° ∇ 16'02	
minimum elong	-1090 Mar 21 j 10:17	20° ✕ 09'07	1°53'15	opposition	-1084 Oct 07 j 16:39	4° ∇ 50'47	-2°06'57
max. Earth dist.	-1090 Mar 22 j 08:07	20° ✕ 11'11	30.80472 AU	min. Earth dist.	-1084 Oct 06 j 23:06	4° ∇ 52'01	28.80794 AU
morning rise	-1090 Apr 06 j 11:32	20° ✕ 45'02		direct	-1084 Dec 24 j 01:55	3° ∇ 26'59	
retrograde	-1090 Jul 07 j 00:38	22° ✕ 44'07		evening set	-1083 Mar 21 j 11:07	5° ∇ 21'03	
opposition	-1090 Sep 24 j 19:26	21° ✕ 18'35	-2°01'52				
min. Earth dist.	-1090 Sep 23 j 23:07	21° ✕ 20'01	28.80531 AU	conjunction	-1083 Apr 06 j 11:52	5° ∇ 56'50	-1°58'49
direct	-1090 Dec 11 j 01:41	19° ✕ 54'53		minimum elong	-1083 Apr 06 j 11:52	5° ∇ 56'50	1°58'49
evening set	-1089 Mar 08 j 01:37	21° ✕ 48'29		max. Earth dist.	-1083 Apr 07 j 05:49	5° ∇ 58'31	30.80613 AU
				morning rise	-1083 Apr 22 j 15:30	6° ∇ 32'54	
conjunction	-1089 Mar 23 j 23:54	22° ✕ 24'06	-1°54'35	retrograde	-1083 Jul 22 j 22:48	8° ∇ 31'37	
minimum elong	-1089 Mar 23 j 23:54	22° ✕ 24'06	1°54'36	opposition	-1083 Oct 10 j 04:04	7° ∇ 06'22	-2°07'07
max. Earth dist.	-1089 Mar 24 j 22:36	22° ✕ 26'14	30.80332 AU	min. Earth dist.	-1083 Oct 09 j 12:15	7° ∇ 07'29	28.80709 AU
morning rise	-1089 Apr 09 j 01:18	23° ✕ 00'02		direct	-1083 Dec 26 j 12:53	5° ∇ 42'30	
retrograde	-1089 Jul 09 j 12:11	24° ✕ 59'05		evening set	-1082 Mar 24 j 00:54	7° ∇ 36'36	
min. Earth dist.	-1089 Sep 26 j 10:55	23° ✕ 35'00	28.80456 AU				
opposition	-1089 Sep 27 j 07:00	23° ✕ 33'35	-2°03'11	conjunction	-1082 Apr 09 j 02:16	8° ∇ 12'25	-1°58'53
direct	-1089 Dec 13 j 13:13	22° ✕ 09'53		minimum elong	-1082 Apr 09 j 02:16	8° ∇ 12'25	1°58'53
evening set	-1088 Mar 09 j 14:55	24° ✕ 03'33		max. Earth dist.	-1082 Apr 09 j 20:21	8° ∇ 14'07	30.80506 AU
				morning rise	-1082 Apr 25 j 06:04	8° ∇ 48'29	
conjunction	-1088 Mar 25 j 13:32	24° ✕ 39'12	-1°55'45	retrograde	-1082 Jul 25 j 12:08	10° ∇ 47'05	
minimum elong	-1088 Mar 25 j 13:32	24° ✕ 39'12	1°55'44	opposition	-1082 Oct 12 j 15:21	9° ∇ 21'49	-2°07'06
max. Earth dist.	-1088 Mar 26 j 11:05	24° ✕ 41'13	30.80331 AU	min. Earth dist.	-1082 Oct 11 j 23:40	9° ∇ 22'56	28.80580 AU
morning rise	-1088 Apr 10 j 15:27	25° ✕ 15'09		direct	-1082 Dec 29 j 02:04	7° ∇ 57'53	
retrograde	-1088 Jul 11 j 02:31	27° ✕ 14'10		evening set	-1081 Mar 26 j 14:43	9° ∇ 52'01	
opposition	-1088 Sep 28 j 18:33	25° ✕ 48'44	-2°04'20				
min. Earth dist.	-1088 Sep 27 j 22:25	25° ✕ 50'09	28.80512 AU	conjunction	-1081 Apr 11 j 16:18	10° ∇ 27'51	-1°58'47
direct	-1088 Dec 15 j 00:29	24° ✕ 25'01		minimum elong	-1081 Apr 11 j 16:19	10° ∇ 27'51	1°58'47
evening set	-1087 Mar 12 j 04:14	26° ✕ 18'47		max. Earth dist.	-1081 Apr 12 j 08:35	10° ∇ 29'22	30.80383 AU
				morning rise	-1081 Apr 27 j 20:35	11° ∇ 03'55	
conjunction	-1087 Mar 28 j 03:22	26° ✕ 54'28	-1°56'43	retrograde	-1081 Jul 28 j 01:02	13° ∇ 02'24	
minimum elong	-1087 Mar 28 j 03:22	26° ✕ 54'28	1°56'44	min. Earth dist.	-1081 Oct 14 j 11:49	11° ∇ 38'10	28.80479 AU
max. Earth dist.	-1087 Mar 29 j 01:14	26° ✕ 56'31	30.80417 AU	opposition	-1081 Oct 15 j 02:36	11° ∇ 37'07	-2°06'54
morning rise	-1087 Apr 13 j 05:34	27° ✕ 30'26		direct	-1081 Dec 31 j 12:32	10° ∇ 13'05	
retrograde	-1087 Jul 13 j 14:50	29° ✕ 29'26		evening set	-1080 Mar 28 j 04:26	12° ∇ 07'16	

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Attention, astronomical year style is used: The year -1080 in astronomical counting style is the year 1081 BCE in historical counting style.

conjunction	-1080 Apr 13 j 06:36	12° Υ 43'06	-1°58'30	direct	-1073 Jan 15 j 22:58	25° Υ 57'25	
minimum elong	-1080 Apr 13 j 06:36	12° Υ 43'06	1°58'29	evening set	-1073 Apr 14 j 05:47	27° Υ 52'02	
max. Earth dist.	-1080 Apr 13 j 23:21	12° Υ 44'40	30.80309 AU				
morning rise	-1080 Apr 29 j 11:01	13° Υ 19'12		conjunction	-1073 Apr 30 j 10:41	28° Υ 28'01	-1°51'28
retrograde	-1080 Jul 29 j 11:32	15° Υ 17'32		minimum elong	-1073 Apr 30 j 10:42	28° Υ 28'01	1°51'28
opposition	-1080 Oct 16 j 13:40	13° Υ 52'15	-2°06'30	max. Earth dist.	-1073 Apr 30 j 22:59	28° Υ 29'10	30.83220 AU
min. Earth dist.	-1080 Oct 15 j 23:26	13° Υ 53'16	28.80443 AU	morning rise	-1073 May 16 j 16:56	29° Υ 04'10	
direct	-1079 Jan 02 j 00:55	12° Υ 28'09			-1073 Jun 13 j 07:29	0° \mathcal{B}	
evening set	-1079 Mar 30 j 18:15	14° Υ 22'21		retrograde	-1073 Aug 15 j 05:54	1° \mathcal{B} 01'42	
					-1073 Oct 19 j 00:08	30° $\mathcal{R}\Upsilon$	
conjunction	-1079 Apr 15 j 20:44	14° Υ 58'12	-1°58'02	opposition	-1073 Nov 01 j 18:12	29° Υ 36'50	-1°58'18
minimum elong	-1079 Apr 15 j 20:44	14° Υ 58'12	1°58'02	min. Earth dist.	-1073 Nov 01 j 08:00	29° Υ 37'34	28.83667 AU
max. Earth dist.	-1079 Apr 16 j 11:57	14° Υ 59'38	30.80335 AU	direct	-1072 Jan 18 j 12:22	28° Υ 12'32	
morning rise	-1079 May 02 j 01:38	15° Υ 34'18			-1072 Apr 12 j 12:02	0° \mathcal{B}	
retrograde	-1079 Aug 01 j 00:20	17° Υ 32'31		evening set	-1072 Apr 15 j 20:08	0° \mathcal{B} 07'14	
min. Earth dist.	-1079 Oct 18 j 10:36	16° Υ 08'15	28.80530 AU				
opposition	-1079 Oct 19 j 00:42	16° Υ 07'15	-2°05'54	conjunction	-1072 May 02 j 01:13	0° \mathcal{B} 43'14	-1°49'46
direct	-1078 Jan 04 j 11:55	14° Υ 43'03		minimum elong	-1072 May 02 j 01:13	0° \mathcal{B} 43'14	1°49'45
evening set	-1078 Apr 02 j 08:06	16° Υ 37'18		max. Earth dist.	-1072 May 02 j 11:17	0° \mathcal{B} 44'11	30.83869 AU
				morning rise	-1072 May 18 j 07:51	1° \mathcal{B} 19'24	
conjunction	-1078 Apr 18 j 11:02	17° Υ 13'11	-1°57'23	retrograde	-1072 Aug 16 j 19:00	3° \mathcal{B} 16'48	
minimum elong	-1078 Apr 18 j 11:02	17° Υ 13'11	1°57'22	opposition	-1072 Nov 03 j 05:05	1° \mathcal{B} 52'01	-1°56'23
max. Earth dist.	-1078 Apr 19 j 02:32	17° Υ 14'38	30.80479 AU	min. Earth dist.	-1072 Nov 02 j 20:11	1° \mathcal{B} 52'39	28.84284 AU
morning rise	-1078 May 04 j 16:04	17° Υ 49'17		direct	-1071 Jan 19 j 23:13	0° \mathcal{B} 27'41	
retrograde	-1078 Aug 03 j 11:33	19° Υ 47'22		evening set	-1071 Apr 18 j 10:22	2° \mathcal{B} 22'27	
opposition	-1078 Oct 21 j 11:40	18° Υ 22'07	-2°05'06				
min. Earth dist.	-1078 Oct 20 j 22:44	18° Υ 23'03	28.80748 AU	conjunction	-1071 May 04 j 16:00	2° \mathcal{B} 58'29	-1°47'54
direct	-1077 Jan 06 j 22:38	16° Υ 57'53		minimum elong	-1071 May 04 j 16:00	2° \mathcal{B} 58'29	1°47'53
evening set	-1077 Apr 04 j 21:54	18° Υ 52'11		max. Earth dist.	-1071 May 05 j 01:54	2° \mathcal{B} 59'24	30.84441 AU
				morning rise	-1071 May 20 j 22:40	3° \mathcal{B} 34'39	
conjunction	-1077 Apr 21 j 01:14	19° Υ 28'05	-1°56'34	retrograde	-1071 Aug 19 j 06:12	5° \mathcal{B} 31'54	
minimum elong	-1077 Apr 21 j 01:14	19° Υ 28'05	1°56'33	opposition	-1071 Nov 05 j 15:58	4° \mathcal{B} 07'11	-1°54'18
max. Earth dist.	-1077 Apr 21 j 15:46	19° Υ 29'26	30.80789 AU	min. Earth dist.	-1071 Nov 05 j 08:08	4° \mathcal{B} 07'45	28.84801 AU
morning rise	-1077 May 07 j 06:36	20° Υ 04'11		direct	-1070 Jan 22 j 11:58	2° \mathcal{B} 42'49	
retrograde	-1077 Aug 06 j 00:55	22° Υ 02'09		evening set	-1070 Apr 21 j 00:45	4° \mathcal{B} 37'38	
opposition	-1077 Oct 23 j 22:35	20° Υ 36'57	-2°04'08				
min. Earth dist.	-1077 Oct 23 j 09:09	20° Υ 37'54	28.81133 AU	conjunction	-1070 May 07 j 06:33	5° \mathcal{B} 13'41	-1°45'52
direct	-1076 Jan 09 j 11:01	19° Υ 12'40		minimum elong	-1070 May 07 j 06:33	5° \mathcal{B} 13'41	1°45'51
evening set	-1076 Apr 06 j 11:39	21° Υ 07'02		max. Earth dist.	-1070 May 07 j 14:09	5° \mathcal{B} 14'23	30.84932 AU
				morning rise	-1070 May 23 j 13:33	5° \mathcal{B} 49'51	
conjunction	-1076 Apr 22 j 15:21	21° Υ 42'57	-1°55'33	retrograde	-1070 Aug 21 j 19:02	7° \mathcal{B} 46'57	
minimum elong	-1076 Apr 22 j 15:21	21° Υ 42'57	1°55'33	opposition	-1070 Nov 08 j 02:40	6° \mathcal{B} 22'17	-1°52'02
max. Earth dist.	-1076 Apr 23 j 05:29	21° Υ 44'16	30.81248 AU	min. Earth dist.	-1070 Nov 07 j 19:28	6° \mathcal{B} 22'48	28.85260 AU
morning rise	-1076 May 08 j 21:00	22° Υ 19'04		direct	-1069 Jan 24 j 23:02	4° \mathcal{B} 57'51	
retrograde	-1076 Aug 07 j 13:09	24° Υ 16'55		evening set	-1069 Apr 23 j 14:57	6° \mathcal{B} 52'42	
opposition	-1076 Oct 25 j 09:39	22° Υ 51'47	-2°02'57				
min. Earth dist.	-1076 Oct 24 j 21:39	22° Υ 52'38	28.81663 AU	conjunction	-1069 May 09 j 21:10	7° \mathcal{B} 28'46	-1°43'40
direct	-1075 Jan 10 j 22:52	21° Υ 27'29		minimum elong	-1069 May 09 j 21:11	7° \mathcal{B} 28'46	1°43'40
evening set	-1075 Apr 09 j 01:35	23° Υ 21'55		max. Earth dist.	-1069 May 10 j 04:39	7° \mathcal{B} 29'28	30.85372 AU
				morning rise	-1069 May 26 j 04:12	8° \mathcal{B} 04'57	
conjunction	-1075 Apr 25 j 05:46	23° Υ 57'52	-1°54'22	retrograde	-1069 Aug 24 j 05:48	10° \mathcal{B} 01'53	
minimum elong	-1075 Apr 25 j 05:46	23° Υ 57'52	1°54'22	opposition	-1069 Nov 10 j 13:26	8° \mathcal{B} 37'15	-1°49'36
max. Earth dist.	-1075 Apr 25 j 19:30	23° Υ 59'09	30.81851 AU	min. Earth dist.	-1069 Nov 10 j 07:49	8° \mathcal{B} 37'39	28.85687 AU
morning rise	-1075 May 11 j 11:39	24° Υ 34'00		direct	-1068 Jan 27 j 09:41	7° \mathcal{B} 12'45	
retrograde	-1075 Aug 10 j 02:56	26° Υ 31'44		evening set	-1068 Apr 25 j 05:02	9° \mathcal{B} 07'39	
opposition	-1075 Oct 27 j 20:21	25° Υ 06'41	-2°01'35				
min. Earth dist.	-1075 Oct 27 j 08:05	25° Υ 07'34	28.82303 AU	conjunction	-1068 May 11 j 11:32	9° \mathcal{B} 43'43	-1°41'19
direct	-1074 Jan 13 j 12:09	23° Υ 42'23		minimum elong	-1068 May 11 j 11:33	9° \mathcal{B} 43'43	1°41'18
evening set	-1074 Apr 11 j 15:47	25° Υ 36'55		max. Earth dist.	-1068 May 11 j 17:29	9° \mathcal{B} 44'17	30.85818 AU
				morning rise	-1068 May 27 j 18:52	10° \mathcal{B} 19'54	
conjunction	-1074 Apr 27 j 20:11	26° Υ 12'53	-1°53'01	retrograde	-1068 Aug 25 j 17:53	12° \mathcal{B} 16'40	
minimum elong	-1074 Apr 27 j 20:12	26° Υ 12'53	1°53'00	opposition	-1068 Nov 12 j 00:00	10° \mathcal{B} 52'05	-1°47'01
max. Earth dist.	-1074 Apr 28 j 08:31	26° Υ 14'02	30.82525 AU	min. Earth dist.	-1068 Nov 11 j 18:21	10° \mathcal{B} 52'29	28.86139 AU
morning rise	-1074 May 14 j 02:23	26° Υ 49'02		direct	-1067 Jan 28 j 22:32	9° \mathcal{B} 27'30	
retrograde	-1074 Aug 12 j 16:08	28° Υ 46'40		evening set	-1067 Apr 27 j 19:16	11° \mathcal{B} 22'27	
opposition	-1074 Oct 30 j 07:21	27° Υ 21'43	-2°00'02				
min. Earth dist.	-1074 Oct 29 j 20:47	27° Υ 22'28	28.82997 AU	conjunction	-1067 May 14 j 02:04	11° \mathcal{B} 58'32	-1°38'50

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Attention, astronomical year style is used: The year -1067 in astronomical counting style is the year 1068 BCE in historical counting style.

minimum elong	-1067 May 14 j 02:04	11° 8 58'32	1°38'48	opposition	-1061 Nov 28 j 01:19	26° 8 33'22	-1°24'37
max. Earth dist.	-1067 May 14 j 07:22	11° 8 59'01	30.86292 AU	min. Earth dist.	-1061 Nov 28 j 00:54	26° 8 33'24	28.92072 AU
morning rise	-1067 May 30 j 09:28	12° 8 34'42		direct	-1060 Feb 14 j 12:19	25° 8 08'37	
retrograde	-1067 Aug 28 j 04:41	14° 8 31'18		evening set	-1060 May 13 j 22:03	27° 8 03'59	
opposition	-1067 Nov 14 j 10:33	13° 8 06'45	-1°44'16				
min. Earth dist.	-1067 Nov 14 j 06:37	13° 8 07'02	28.86650 AU	conjunction	-1060 May 30 j 06:22	27° 8 40'08	-1°17'24
direct	-1066 Jan 31 j 10:26	11° 8 42'07		minimum elong	-1060 May 30 j 06:22	27° 8 40'08	1°17'23
evening set	-1066 Apr 30 j 09:24	13° 8 37'06		max. Earth dist.	-1060 May 30 j 06:02	27° 8 40'06	30.92530 AU
				morning rise	-1060 Jun 15 j 14:05	28° 8 16'16	
conjunction	-1066 May 16 j 16:30	14° 8 13'11	-1°36'11		-1060 Aug 17 j 08:20	0° II	
minimum elong	-1066 May 16 j 16:30	14° 8 13'11	1°36'10	retrograde	-1060 Sep 12 j 18:34	0° II 11'47	
max. Earth dist.	-1066 May 16 j 21:05	14° 8 13'37	30.86861 AU		-1060 Oct 09 j 08:37	30° R 8	
morning rise	-1066 Jun 02 j 00:01	14° 8 49'21		opposition	-1060 Nov 29 j 11:53	28° 8 47'51	-1°20'51
	-1066 Jun 06 j 22:27	15° 8		min. Earth dist.	-1060 Nov 29 j 13:19	28° 8 47'44	28.93079 AU
retrograde	-1066 Aug 30 j 17:22	16° 8 45'47		direct	-1059 Feb 15 j 23:27	27° 8 23'05	
opposition	-1066 Nov 16 j 21:02	15° 8 21'17	-1°41'22	evening set	-1059 May 16 j 12:25	29° 8 18'29	
min. Earth dist.	-1066 Nov 16 j 16:45	15° 8 21'35	28.87265 AU				
	-1066 Nov 29 j 11:28	15° R 8		conjunction	-1059 Jun 01 j 20:45	29° 8 54'38	-1°13'50
direct	-1065 Feb 02 j 23:42	13° 8 56'35		minimum elong	-1059 Jun 01 j 20:46	29° 8 54'38	1°13'48
	-1065 Apr 07 j 11:39	15° 8		max. Earth dist.	-1059 Jun 01 j 18:23	29° 8 54'25	30.93500 AU
evening set	-1065 May 02 j 23:25	15° 8 51'38			-1059 Jun 04 j 06:27	0° II	
				morning rise	-1059 Jun 18 j 04:34	0° II 30'45	
conjunction	-1065 May 19 j 06:38	16° 8 27'43	-1°33'24	retrograde	-1059 Sep 15 j 06:10	2° II 26'06	
minimum elong	-1065 May 19 j 06:39	16° 8 27'43	1°33'23	opposition	-1059 Dec 01 j 22:16	1° II 02'15	-1°16'59
max. Earth dist.	-1065 May 19 j 10:06	16° 8 28'03	30.87540 AU	min. Earth dist.	-1059 Dec 01 j 23:56	1° II 02'08	28.93988 AU
morning rise	-1065 Jun 04 j 14:17	17° 8 03'53			-1058 Jan 12 j 01:21	30° R 8	
retrograde	-1065 Sep 02 j 05:36	19° 8 00'09		direct	-1058 Feb 18 j 12:05	29° 8 37'26	
opposition	-1065 Nov 19 j 07:38	17° 8 35'43	-1°38'18		-1058 Mar 27 j 13:15	0° II	
min. Earth dist.	-1065 Nov 19 j 04:44	17° 8 35'55	28.88018 AU	evening set	-1058 May 19 j 02:42	1° II 32'53	
direct	-1064 Feb 05 j 10:56	16° 8 10'59					
evening set	-1064 May 04 j 13:24	18° 8 06'05		conjunction	-1058 Jun 04 j 11:10	2° II 09'02	-1°10'09
				minimum elong	-1058 Jun 04 j 11:10	2° II 09'02	1°10'08
conjunction	-1064 May 20 j 21:01	18° 8 42'11	-1°30'28	max. Earth dist.	-1058 Jun 04 j 07:54	2° II 08'44	30.94352 AU
minimum elong	-1064 May 20 j 21:02	18° 8 42'11	1°30'27	morning rise	-1058 Jun 20 j 18:49	2° II 45'08	
max. Earth dist.	-1064 May 21 j 00:36	18° 8 42'31	30.88371 AU	retrograde	-1058 Sep 17 j 16:24	4° II 40'19	
morning rise	-1064 Jun 06 j 04:39	19° 8 18'20		opposition	-1058 Dec 04 j 08:52	3° II 16'31	-1°12'59
retrograde	-1064 Sep 03 j 18:48	21° 8 14'27		min. Earth dist.	-1058 Dec 04 j 12:32	3° II 16'15	28.94791 AU
opposition	-1064 Nov 20 j 17:59	19° 8 50'06	-1°35'06	direct	-1057 Feb 20 j 23:17	1° II 51'39	
min. Earth dist.	-1064 Nov 20 j 15:09	19° 8 50'18	28.88905 AU	evening set	-1057 May 21 j 16:42	3° II 47'07	
direct	-1063 Feb 07 j 01:07	18° 8 25'21					
evening set	-1063 May 07 j 03:38	20° 8 20'30		conjunction	-1057 Jun 07 j 01:15	4° II 23'16	-1°06'22
				minimum elong	-1057 Jun 07 j 01:16	4° II 23'16	1°06'21
conjunction	-1063 May 23 j 11:19	20° 8 56'38	-1°27'24	max. Earth dist.	-1057 Jun 06 j 20:46	4° II 22'51	30.95122 AU
minimum elong	-1063 May 23 j 11:19	20° 8 56'38	1°27'23	morning rise	-1057 Jun 23 j 08:52	4° II 59'21	
max. Earth dist.	-1063 May 23 j 13:06	20° 8 56'47	30.89330 AU	retrograde	-1057 Sep 20 j 04:09	6° II 54'21	
morning rise	-1063 Jun 08 j 19:10	21° 8 32'47		opposition	-1057 Dec 06 j 19:12	5° II 30'36	-1°08'54
retrograde	-1063 Sep 06 j 07:12	23° 8 28'44		min. Earth dist.	-1057 Dec 06 j 22:54	5° II 30'20	28.95512 AU
opposition	-1063 Nov 23 j 04:29	22° 8 04'29	-1°31'44	direct	-1056 Feb 23 j 12:19	4° II 05'40	
min. Earth dist.	-1063 Nov 23 j 02:36	22° 8 04'37	28.89919 AU	evening set	-1056 May 23 j 06:53	6° II 01'10	
direct	-1062 Feb 09 j 12:30	20° 8 39'44					
evening set	-1062 May 09 j 17:41	22° 8 34'57		conjunction	-1056 Jun 08 j 15:25	6° II 37'18	-1°02'30
				minimum elong	-1056 Jun 08 j 15:25	6° II 37'18	1°02'30
conjunction	-1062 May 26 j 01:42	23° 8 11'05	-1°24'11	max. Earth dist.	-1056 Jun 08 j 09:27	6° II 36'44	30.95820 AU
minimum elong	-1062 May 26 j 01:42	23° 8 11'05	1°24'11	morning rise	-1056 Jun 24 j 22:58	7° II 13'22	
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morning rise	-1062 Jun 11 j 09:23	23° 8 47'14		opposition	-1056 Dec 08 j 05:30	7° II 44'27	-1°04'43
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opposition	-1062 Nov 25 j 14:54	24° 8 18'54	-1°28'15	direct	-1055 Feb 25 j 00:02	6° II 19'27	
min. Earth dist.	-1062 Nov 25 j 13:56	24° 8 18'58	28.90987 AU	evening set	-1055 May 25 j 20:53	8° II 14'59	
direct	-1061 Feb 12 j 01:10	22° 8 54'10					
evening set	-1061 May 12 j 07:57	24° 8 49'27		conjunction	-1055 Jun 11 j 05:34	8° II 51'06	-0°58'33
				minimum elong	-1055 Jun 11 j 05:35	8° II 51'06	0°58'31
conjunction	-1061 May 28 j 15:57	25° 8 25'36	-1°20'51	max. Earth dist.	-1055 Jun 10 j 23:19	8° II 50'31	30.96508 AU
minimum elong	-1061 May 28 j 15:58	25° 8 25'36	1°20'50	morning rise	-1055 Jun 27 j 12:55	9° II 27'09	
max. Earth dist.	-1061 May 28 j 15:49	25° 8 25'35	30.91476 AU	retrograde	-1055 Sep 24 j 02:50	11° II 21'46	
morning rise	-1061 Jun 13 j 23:50	26° 8 01'44		opposition	-1055 Dec 10 j 15:45	9° II 58'06	-1°00'26
retrograde	-1061 Sep 11 j 08:14	27° 8 57'24		min. Earth dist.	-1055 Dec 10 j 21:34	9° II 57'41	28.96882 AU
























































































































Planetary Phenomena of Neptune from -1400 through -898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 28

Attention, astronomical year style is used: The year -1054 in astronomical counting style is the year 1055 BCE in historical counting style.

direct	-1054 Feb 27 j 14:29	8°II33'01		retrograde	-1048 Oct 09 j 08:24	26°II53'49	
evening set	-1054 May 28 j 10:51	10°II28'35		opposition	-1048 Dec 25 j 15:11	25°II30'46	-0°28'26
				min. Earth dist.	-1048 Dec 26 j 01:22	25°II30'03	29.04199 AU
conjunction	-1054 Jun 13 j 19:21	11°II04'41	-0°54'30	direct	-1047 Mar 15 j 00:14	24°II05'38	
minimum elong	-1054 Jun 13 j 19:21	11°II04'41	0°54'29	evening set	-1047 Jun 13 j 10:55	26°II01'35	
max. Earth dist.	-1054 Jun 13 j 11:22	11°II03'57	30.97215 AU				
morning rise	-1054 Jun 30 j 02:39	11°II40'43		conjunction	-1047 Jun 29 j 18:40	26°II37'37	-0°24'22
retrograde	-1054 Sep 26 j 14:26	13°II35'10		minimum elong	-1047 Jun 29 j 18:40	26°II37'37	0°24'20
opposition	-1054 Dec 13 j 02:00	12°II11'32	-0°56'05	max. Earth dist.	-1047 Jun 29 j 05:32	26°II36'24	31.04761 AU
min. Earth dist.	-1054 Dec 13 j 08:41	12°II11'03	28.97631 AU	morning rise	-1047 Jul 16 j 00:09	27°II13'28	
direct	-1053 Mar 02 j 02:13	10°II46'24		retrograde	-1047 Oct 11 j 18:49	29°II07'00	
evening set	-1053 May 31 j 00:34	12°II41'59		opposition	-1047 Dec 28 j 01:37	27°II44'02	-0°23'39
				min. Earth dist.	-1047 Dec 28 j 13:32	27°II43'12	29.05330 AU
conjunction	-1053 Jun 16 j 09:12	13°II18'05	-0°50'23	direct	-1046 Mar 17 j 11:47	26°II18'54	
minimum elong	-1053 Jun 16 j 09:12	13°II18'05	0°50'22	evening set	-1046 Jun 16 j 00:28	28°II14'54	
max. Earth dist.	-1053 Jun 16 j 01:36	13°II17'23	30.98008 AU				
morning rise	-1053 Jul 02 j 16:10	13°II54'05		conjunction	-1046 Jul 02 j 08:04	28°II50'54	-0°19'52
retrograde	-1053 Sep 29 j 01:24	15°II48'22		minimum elong	-1046 Jul 02 j 08:04	28°II50'54	0°19'52
opposition	-1053 Dec 15 j 12:11	14°II24'48	-0°51'38	max. Earth dist.	-1046 Jul 01 j 18:31	28°II49'39	31.05840 AU
min. Earth dist.	-1053 Dec 15 j 19:32	14°II24'16	28.98472 AU	morning rise	-1046 Jul 18 j 13:08	29°II26'43	
direct	-1052 Mar 03 j 15:23	12°II59'38			-1046 Aug 03 j 11:33	0°00'00	
evening set	-1052 Jun 01 j 14:21	14°II55'15		retrograde	-1046 Oct 14 j 05:45	1°00'20'08	
					-1046 Dec 28 j 20:39	30°00'00'00	
conjunction	-1052 Jun 17 j 22:47	15°II31'21	-0°46'12	opposition	-1046 Dec 30 j 11:57	29°II57'14	-0°18'50
minimum elong	-1052 Jun 17 j 22:48	15°II31'21	0°46'11	min. Earth dist.	-1046 Dec 31 j 00:18	29°II56'22	29.06347 AU
max. Earth dist.	-1052 Jun 17 j 13:22	15°II30'29	30.98920 AU	direct	-1045 Mar 20 j 01:41	28°II32'05	
morning rise	-1052 Jul 04 j 05:45	16°II07'19			-1045 Jun 05 j 04:45	0°00'00	
retrograde	-1052 Sep 30 j 14:14	18°II01'27		evening set	-1045 Jun 18 j 14:08	0°00'28'06	
opposition	-1052 Dec 16 j 22:22	16°II37'57	-0°47'08				
min. Earth dist.	-1052 Dec 17 j 05:46	16°II37'26	28.99449 AU	conjunction	-1045 Jul 04 j 21:20	1°00'04'05	-0°15'21
direct	-1051 Mar 06 j 03:10	15°II12'46		minimum elong	-1045 Jul 04 j 21:20	1°00'04'05	0°15'20
evening set	-1051 Jun 04 j 04:04	17°II08'27		behind sun begin	-1045 Jul 04 j 19:43	1°00'03'57	
				behind sun end	-1045 Jul 04 j 22:57	1°00'04'14	
conjunction	-1051 Jun 20 j 12:33	17°II44'32	-0°41'56	max. Earth dist.	-1045 Jul 04 j 05:54	1°00'02'40	31.06808 AU
minimum elong	-1051 Jun 20 j 12:33	17°II44'32	0°41'55	morning rise	-1045 Jul 21 j 02:08	1°00'39'52	
max. Earth dist.	-1051 Jun 20 j 03:31	17°II43'42	30.99959 AU	retrograde	-1045 Oct 16 j 17:11	3°00'33'09	
morning rise	-1051 Jul 06 j 19:06	18°II20'29		opposition	-1044 Jan 01 j 22:10	2°00'10'18	-0°13'59
retrograde	-1051 Oct 02 j 23:52	20°II14'29		min. Earth dist.	-1044 Jan 02 j 11:35	2°00'09'21	29.07278 AU
opposition	-1051 Dec 19 j 08:36	18°II51'05	-0°42'33	direct	-1044 Mar 21 j 12:57	0°00'45'05	
min. Earth dist.	-1051 Dec 19 j 17:20	18°II50'28	29.00544 AU	evening set	-1044 Jun 20 j 03:32	2°00'41'09	
direct	-1050 Mar 08 j 14:31	17°II25'55					
evening set	-1050 Jun 06 j 17:50	19°II21'39		conjunction	-1044 Jul 06 j 10:40	3°00'17'06	-0°10'50
				minimum elong	-1044 Jul 06 j 10:40	3°00'17'06	0°10'49
conjunction	-1050 Jun 23 j 02:05	19°II57'44	-0°37'37	behind sun begin	-1044 Jul 06 j 05:42	3°00'16'39	
minimum elong	-1050 Jun 23 j 02:05	19°II57'44	0°37'37	behind sun end	-1044 Jul 06 j 15:38	3°00'17'32	
max. Earth dist.	-1050 Jun 22 j 15:38	19°II56'46	31.01125 AU	max. Earth dist.	-1044 Jul 05 j 19:19	3°00'15'41	31.07693 AU
morning rise	-1050 Jul 09 j 08:32	20°II33'40		morning rise	-1044 Jul 22 j 14:58	3°00'52'50	
retrograde	-1050 Oct 05 j 11:07	22°II27'32		retrograde	-1044 Oct 18 j 04:01	5°00'45'57	
opposition	-1050 Dec 21 j 18:45	21°II04'15	-0°37'54	opposition	-1043 Jan 03 j 08:30	4°00'23'09	-0°09'08
min. Earth dist.	-1050 Dec 22 j 03:11	21°II03'39	29.01749 AU	min. Earth dist.	-1043 Jan 03 j 22:54	4°00'22'08	29.08117 AU
direct	-1049 Mar 11 j 02:24	19°II39'06		direct	-1043 Mar 24 j 02:59	2°00'57'54	
evening set	-1049 Jun 09 j 07:21	21°II34'54		evening set	-1043 Jun 22 j 17:03	4°00'53'57	
conjunction	-1049 Jun 25 j 15:32	22°II10'58	-0°33'15	conjunction	-1043 Jul 08 j 23:40	5°00'29'52	-0°06'18
minimum elong	-1049 Jun 25 j 15:32	22°II10'58	0°33'13	minimum elong	-1043 Jul 08 j 23:40	5°00'29'52	0°06'16
max. Earth dist.	-1049 Jun 25 j 04:54	22°II10'00	31.02353 AU	behind sun begin	-1043 Jul 08 j 17:28	5°00'29'19	
morning rise	-1049 Jul 11 j 21:37	22°II46'53		behind sun end	-1043 Jul 09 j 05:53	5°00'30'25	
retrograde	-1049 Oct 07 j 21:11	24°II40'39		max. Earth dist.	-1043 Jul 08 j 06:19	5°00'28'17	31.08512 AU
opposition	-1049 Dec 24 j 05:05	23°II17'29	-0°33'11	morning rise	-1043 Jul 25 j 03:42	6°00'05'34	
min. Earth dist.	-1049 Dec 24 j 15:16	23°II16'46	29.02991 AU	retrograde	-1043 Oct 20 j 16:21	7°00'58'32	
direct	-1048 Mar 12 j 12:26	21°II52'21		opposition	-1042 Jan 05 j 18:39	6°00'35'46	-0°04'17
evening set	-1048 Jun 10 j 21:06	23°II48'14		min. Earth dist.	-1042 Jan 06 j 09:15	6°00'34'44	29.08927 AU
				direct	-1042 Mar 26 j 16:01	5°00'10'27	
conjunction	-1048 Jun 27 j 05:06	24°II24'17	-0°28'49	evening set	-1042 Jun 25 j 06:13	7°00'06'31	
minimum elong	-1048 Jun 27 j 05:06	24°II24'17	0°28'49				
max. Earth dist.	-1048 Jun 26 j 17:19	24°II23'12	31.03594 AU	conjunction	-1042 Jul 11 j 12:41	7°00'42'24	-0°01'45
morning rise	-1048 Jul 13 j 10:56	25°II00'10		minimum elong	-1042 Jul 11 j 12:41	7°00'42'24	0°01'44

Planetary Phenomena of Neptune from -1400 through -898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 29

Attention, astronomical year style is used: The year -1042 in astronomical counting style is the year 1043 BCE in historical counting style.

behind sun begin	-1042 Jul	11 j 06:06	7°  41'49		conjunction	-1036 Jul	24 j 15:38	20°  54'03	0°25'23
behind sun end	-1042 Jul	11 j 19:16	7°  42'59		minimum elong	-1036 Jul	24 j 15:38	20°  54'03	0°25'23
max. Earth dist.	-1042 Jul	10 j 19:44	7°  40'51	31.09315 AU	max. Earth dist.	-1036 Jul	23 j 19:25	20°  52'11	31.15843 AU
morning rise	-1042 Jul	27 j 16:06	8°  18'03		morning rise	-1036 Aug	09 j 16:12	21°  29'27	
retrograde	-1042 Oct	23 j 01:19	10°  10'53		retrograde	-1036 Nov	04 j 14:48	23°  21'42	
asc. node	-1042 Nov	25 j 03:29	9°  52'45		opposition	-1035 Jan	20 j 18:33	21°  59'22	0°29'25
opposition	-1041 Jan	08 j 05:00	8°  48'07	0°00'35	min. Earth dist.	-1035 Jan	21 j 12:23	21°  58'08	29.16505 AU
min. Earth dist.	-1041 Jan	08 j 20:56	8°  47'00	29.09743 AU	direct	-1035 Apr	11 j 00:52	20°  34'04	
direct	-1041 Mar	29 j 04:28	7°  22'46		evening set	-1035 Jul	11 j 00:35	22°  30'21	
evening set	-1041 Jun	27 j 19:16	9°  18'49		max. Earth dist.	-1035 Jul	26 j 08:14	23°  04'09	31.17093 AU
max. Earth dist.	-1041 Jul	13 j 07:02	9°  52'59	31.10162 AU					
					conjunction	-1035 Jul	27 j 04:01	23°  05'59	0°29'47
conjunction	-1041 Jul	14 j 01:16	9°  54'40	0°02'55	minimum elong	-1035 Jul	27 j 04:01	23°  05'59	0°29'49
minimum elong	-1041 Jul	14 j 01:14	9°  54'40	0°02'57	morning rise	-1035 Aug	12 j 03:52	23°  41'20	
behind sun begin	-1041 Jul	13 j 18:41	9°  54'05		retrograde	-1035 Nov	07 j 01:24	25°  33'32	
behind sun end	-1041 Jul	14 j 07:47	9°  55'15		opposition	-1034 Jan	23 j 05:05	24°  11'18	0°34'06
morning rise	-1041 Jul	30 j 04:24	10°  30'17		min. Earth dist.	-1034 Jan	23 j 23:48	24°  10'00	29.17713 AU
retrograde	-1041 Oct	25 j 12:11	12°  22'57		direct	-1034 Apr	13 j 14:22	22°  46'03	
opposition	-1040 Jan	10 j 15:09	11°  00'14	0°05'26	evening set	-1034 Jul	13 j 13:29	24°  42'22	
min. Earth dist.	-1040 Jan	11 j 06:35	10°  59'09	29.10625 AU					
direct	-1040 Mar	30 j 16:55	9°  34'50		conjunction	-1034 Jul	29 j 16:13	25°  17'57	0°34'09
evening set	-1040 Jun	29 j 08:17	11°  30'54		minimum elong	-1034 Jul	29 j 16:13	25°  17'57	0°34'10
					max. Earth dist.	-1034 Jul	28 j 18:36	25°  15'57	31.18254 AU
conjunction	-1040 Jul	15 j 13:58	12°  06'43	0°07'27	morning rise	-1034 Aug	14 j 15:38	25°  53'15	
minimum elong	-1040 Jul	15 j 13:58	12°  06'43	0°07'27	retrograde	-1034 Nov	09 j 13:57	27°  45'25	
behind sun begin	-1040 Jul	15 j 07:59	12°  06'11		opposition	-1033 Jan	25 j 15:35	26°  23'15	0°38'45
behind sun end	-1040 Jul	15 j 19:57	12°  07'15		min. Earth dist.	-1033 Jan	26 j 10:20	26°  21'57	29.18830 AU
max. Earth dist.	-1040 Jul	14 j 19:55	12°  05'03	31.11080 AU	direct	-1033 Apr	16 j 02:55	24°  58'01	
morning rise	-1040 Jul	31 j 16:31	12°  42'16		evening set	-1033 Jul	16 j 02:02	26°  54'22	
retrograde	-1040 Oct	26 j 21:38	14°  34'50		max. Earth dist.	-1033 Jul	31 j 07:08	27°  27'57	31.19297 AU
opposition	-1039 Jan	12 j 01:23	13°  12'09	0°10'17					
min. Earth dist.	-1039 Jan	12 j 18:07	13°  10'59	29.11606 AU	conjunction	-1033 Aug	01 j 04:25	27°  29'55	0°38'28
direct	-1039 Apr	02 j 03:31	11°  46'44		minimum elong	-1033 Aug	01 j 04:25	27°  29'55	0°38'30
evening set	-1039 Jul	01 j 21:18	13°  42'48		morning rise	-1033 Aug	17 j 03:06	28°  05'11	
max. Earth dist.	-1039 Jul	17 j 07:56	14°  16'52	31.12127 AU	retrograde	-1033 Nov	11 j 23:18	29°  57'17	
					opposition	-1032 Jan	28 j 02:14	28°  35'11	0°43'20
conjunction	-1039 Jul	18 j 02:32	14°  18'35	0°11'57	min. Earth dist.	-1032 Jan	28 j 22:32	28°  33'46	29.19810 AU
minimum elong	-1039 Jul	18 j 02:32	14°  18'35	0°11'58	direct	-1032 Apr	17 j 15:22	27°  09'57	
behind sun begin	-1039 Jul	17 j 22:05	14°  18'12		evening set	-1032 Jul	17 j 14:48	29°  06'20	
behind sun end	-1039 Jul	18 j 06:59	14°  18'59						
morning rise	-1039 Aug	03 j 04:39	14°  54'06		conjunction	-1032 Aug	02 j 16:30	29°  41'50	0°42'43
retrograde	-1039 Oct	29 j 07:41	16°  46'33		minimum elong	-1032 Aug	02 j 16:29	29°  41'50	0°42'43
opposition	-1038 Jan	14 j 11:38	15°  23'57	0°15'06	max. Earth dist.	-1032 Aug	01 j 17:40	29°  39'43	31.20217 AU
min. Earth dist.	-1038 Jan	15 j 03:40	15°  22'49	29.12710 AU					
direct	-1038 Apr	04 j 15:35	13°  58'32		morning rise	-1032 Aug	18 j 14:43	0°  17'03	
evening set	-1038 Jul	04 j 10:06	15°  54'38		retrograde	-1032 Nov	13 j 10:25	2°  09'04	
					opposition	-1031 Jan	29 j 12:40	0°  47'01	0°47'50
conjunction	-1038 Jul	20 j 14:52	16°  30'23	0°16'27	min. Earth dist.	-1031 Jan	30 j 08:38	0°  45'38	29.20671 AU
minimum elong	-1038 Jul	20 j 14:52	16°  30'23	0°16'27					
max. Earth dist.	-1038 Jul	19 j 19:47	16°  28'37	31.13288 AU	direct	-1031 Apr	20 j 04:10	29°  21'47	
morning rise	-1038 Aug	05 j 16:26	17°  05'52						
retrograde	-1038 Oct	31 j 17:12	18°  58'14		evening set	-1031 Jul	20 j 03:20	1°  18'10	
opposition	-1037 Jan	16 j 21:59	17°  35'43	0°19'54	max. Earth dist.	-1031 Aug	04 j 05:46	1°  51'32	31.21016 AU
min. Earth dist.	-1037 Jan	17 j 15:03	17°  34'31	29.13934 AU					
direct	-1037 Apr	07 j 02:07	16°  10'20		conjunction	-1031 Aug	05 j 04:34	1°  53'39	0°46'55
evening set	-1037 Jul	06 j 22:53	18°  06'28		minimum elong	-1031 Aug	05 j 04:34	1°  53'39	0°46'56
max. Earth dist.	-1037 Jul	22 j 08:25	18°  40'26	31.14555 AU	morning rise	-1031 Aug	21 j 02:04	2°  02'48	
					retrograde	-1031 Nov	15 j 20:17	4°  02'45	
conjunction	-1037 Jul	23 j 03:17	18°  42'11	0°20'56	opposition	-1030 Jan	31 j 23:23	2°  58'44	0°52'17
minimum elong	-1037 Jul	23 j 03:17	18°  42'11	0°20'57	min. Earth dist.	-1030 Feb	01 j 20:49	2°  57'15	29.21436 AU
morning rise	-1037 Aug	08 j 04:18	19°  17'37		direct	-1030 Apr	22 j 15:19	1°  03'30	
retrograde	-1037 Nov	03 j 03:19	21°  09'55		evening set	-1030 Jul	22 j 15:36	3°  02'52	
opposition	-1036 Jan	19 j 08:09	19°  47'30	0°24'41					
min. Earth dist.	-1036 Jan	20 j 01:20	19°  46'18	29.15217 AU	conjunction	-1030 Aug	07 j 16:12	4°  05'17	0°51'02
direct	-1036 Apr	08 j 14:29	18°  22'10		minimum elong	-1030 Aug	07 j 16:12	4°  05'17	0°51'02
evening set	-1036 Jul	08 j 11:50	20°  18'22		max. Earth dist.	-1030 Aug	06 j 16:50	4°  03'07	31.21748 AU
					morning rise	-1030 Aug	23 j 13:10	4°  04'23	

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Attention, astronomical year style is used: The year -1030 in astronomical counting style is the year 1031 BCE in historical counting style.

retrograde	-1030 Nov 18 j 05:33	6°Ω32'16		min. Earth dist.	-1023 Feb 17 j 00:17	18°Ω15'20	29.27304 AU
opposition	-1029 Feb 03 j 09:55	5°Ω10'17	0°56'38	direct	-1023 May 08 j 01:17	16°Ω51'45	
min. Earth dist.	-1029 Feb 04 j 06:47	5°Ω08'50	29.22139 AU	evening set	-1023 Aug 07 j 03:05	18°Ω48'09	
direct	-1029 Apr 25 j 03:57	3°Ω45'01					
evening set	-1029 Jul 25 j 03:50	5°Ω41'22		conjunction	-1023 Aug 22 j 23:17	19°Ω23'13	1°17'23
max. Earth dist.	-1029 Aug 09 j 03:59	6°Ω14'32	31.22433 AU	minimum elong	-1023 Aug 22 j 23:17	19°Ω23'13	1°17'24
				max. Earth dist.	-1023 Aug 21 j 23:13	19°Ω20'59	31.27707 AU
conjunction	-1029 Aug 10 j 03:51	6°Ω16'45	0°55'04	morning rise	-1023 Sep 07 j 15:51	19°Ω57'59	
minimum elong	-1029 Aug 10 j 03:51	6°Ω16'45	0°55'05	retrograde	-1023 Dec 03 j 04:50	21°Ω49'41	
morning rise	-1029 Aug 26 j 00:11	6°Ω51'48		opposition	-1022 Feb 18 j 12:54	20°Ω27'57	1°24'26
retrograde	-1029 Nov 20 j 14:14	8°Ω43'37		min. Earth dist.	-1022 Feb 19 j 10:25	20°Ω26'28	29.28242 AU
opposition	-1028 Feb 05 j 20:25	7°Ω21'38	1°00'54	direct	-1022 May 10 j 14:25	19°Ω02'52	
min. Earth dist.	-1028 Feb 06 j 18:16	7°Ω20'07	29.22843 AU	evening set	-1022 Aug 09 j 14:37	20°Ω59'16	
direct	-1028 Apr 26 j 14:30	5°Ω56'21		max. Earth dist.	-1022 Aug 24 j 10:33	21°Ω32'06	31.28584 AU
evening set	-1028 Jul 26 j 15:54	7°Ω52'42					
				conjunction	-1022 Aug 25 j 10:16	21°Ω34'18	1°20'45
conjunction	-1028 Aug 11 j 15:23	8°Ω28'01	0°59'01	minimum elong	-1022 Aug 25 j 10:15	21°Ω34'18	1°20'44
minimum elong	-1028 Aug 11 j 15:23	8°Ω28'01	0°59'01	morning rise	-1022 Sep 10 j 02:04	22°Ω09'01	
max. Earth dist.	-1028 Aug 10 j 15:59	8°Ω25'51	31.23147 AU	retrograde	-1022 Dec 05 j 15:12	24°Ω00'45	
morning rise	-1028 Aug 27 j 11:04	9°Ω03'01		opposition	-1021 Feb 21 j 00:00	22°Ω39'02	1°27'57
retrograde	-1028 Nov 21 j 23:13	10°Ω54'47		min. Earth dist.	-1021 Feb 21 j 22:47	22°Ω37'28	29.29076 AU
opposition	-1027 Feb 07 j 07:03	9°Ω32'48	1°05'05	direct	-1021 May 13 j 02:10	21°Ω14'00	
min. Earth dist.	-1027 Feb 08 j 04:38	9°Ω31'19	29.23579 AU	evening set	-1021 Aug 12 j 02:17	23°Ω10'24	
direct	-1027 Apr 29 j 02:25	8°Ω07'31					
evening set	-1027 Jul 29 j 03:55	10°Ω03'52		conjunction	-1021 Aug 27 j 21:14	23°Ω45'23	1°23'59
max. Earth dist.	-1027 Aug 13 j 02:27	10°Ω36'53	31.23916 AU	minimum elong	-1021 Aug 27 j 21:14	23°Ω45'23	1°24'00
				max. Earth dist.	-1021 Aug 26 j 21:05	23°Ω43'08	31.29350 AU
conjunction	-1027 Aug 14 j 02:38	10°Ω39'08	1°02'53	morning rise	-1021 Sep 12 j 12:29	24°Ω20'03	
minimum elong	-1027 Aug 14 j 02:38	10°Ω39'08	1°02'55	retrograde	-1021 Dec 08 j 00:36	26°Ω11'45	
morning rise	-1027 Aug 29 j 21:44	11°Ω14'05		opposition	-1020 Feb 23 j 10:53	24°Ω50'05	1°31'21
retrograde	-1027 Nov 24 j 09:56	13°Ω05'49		min. Earth dist.	-1020 Feb 24 j 09:06	24°Ω48'33	29.29767 AU
opposition	-1026 Feb 09 j 17:45	11°Ω43'52	1°09'10	direct	-1020 May 14 j 15:05	23°Ω25'04	
min. Earth dist.	-1026 Feb 10 j 15:16	11°Ω42'22	29.24410 AU	evening set	-1020 Aug 13 j 13:56	25°Ω21'28	
direct	-1026 May 01 j 12:30	10°Ω18'35		max. Earth dist.	-1020 Aug 28 j 07:26	25°Ω54'05	31.29959 AU
evening set	-1026 Jul 31 j 15:43	12°Ω14'56					
				conjunction	-1020 Aug 29 j 08:13	25°Ω56'24	1°27'06
conjunction	-1026 Aug 16 j 13:58	12°Ω50'09	1°06'40	minimum elong	-1020 Aug 29 j 08:13	25°Ω56'24	1°27'06
minimum elong	-1026 Aug 16 j 13:58	12°Ω50'09	1°06'40	morning rise	-1020 Sep 13 j 22:49	26°Ω31'01	
max. Earth dist.	-1026 Aug 15 j 14:56	12°Ω48'00	31.24790 AU	retrograde	-1020 Dec 09 j 09:53	28°Ω22'44	
morning rise	-1026 Sep 01 j 08:18	13°Ω25'03		opposition	-1019 Feb 24 j 22:05	27°Ω01'03	1°34'37
	-1026 Oct 26 j 12:55	15°Ω		min. Earth dist.	-1019 Feb 25 j 21:14	26°Ω59'28	29.30318 AU
retrograde	-1026 Nov 26 j 19:42	15°Ω16'46		direct	-1019 May 17 j 01:41	25°Ω36'03	
	-1026 Dec 28 j 18:49	15°Ω		evening set	-1019 Aug 16 j 01:18	27°Ω32'25	
opposition	-1025 Feb 12 j 04:28	13°Ω54'51	1°13'09				
min. Earth dist.	-1025 Feb 13 j 02:14	13°Ω53'21	29.25329 AU	conjunction	-1019 Aug 31 j 19:01	28°Ω07'18	1°30'05
direct	-1025 May 04 j 01:38	12°Ω29'37		minimum elong	-1019 Aug 31 j 19:00	28°Ω07'18	1°30'06
evening set	-1025 Aug 03 j 03:31	14°Ω25'58		max. Earth dist.	-1019 Aug 30 j 18:41	28°Ω05'02	31.30434 AU
max. Earth dist.	-1025 Aug 18 j 00:54	14°Ω58'54	31.25750 AU	morning rise	-1019 Sep 16 j 08:55	28°Ω41'53	
	-1025 Aug 18 j 12:44	15°Ω			-1019 Oct 28 j 00:14	0°Ω	
				retrograde	-1019 Dec 11 j 18:40	0°Ω33'35	
conjunction	-1025 Aug 19 j 01:00	15°Ω01'08	1°10'21		-1018 Jan 27 j 03:56	30°Ω	
minimum elong	-1025 Aug 19 j 01:00	15°Ω01'08	1°10'22	opposition	-1018 Feb 27 j 09:16	29°Ω11'55	1°37'44
morning rise	-1025 Sep 03 j 18:54	15°Ω36'00		min. Earth dist.	-1018 Feb 28 j 08:18	29°Ω10'20	29.30721 AU
retrograde	-1025 Nov 29 j 07:43	17°Ω27'42		direct	-1018 May 19 j 13:53	27°Ω46'55	
opposition	-1024 Feb 14 j 15:08	16°Ω05'50	1°17'01	evening set	-1018 Aug 18 j 12:42	29°Ω43'14	
min. Earth dist.	-1024 Feb 15 j 12:18	16°Ω04'23	29.26318 AU		-1018 Aug 26 j 03:24	0°Ω	
	-1024 Mar 31 j 02:58	15°Ω		max. Earth dist.	-1018 Sep 02 j 04:23	0°Ω15'43	31.30780 AU
direct	-1024 May 05 j 13:32	14°Ω40'39					
	-1024 Jun 09 j 11:17	15°Ω		conjunction	-1018 Sep 03 j 05:39	0°Ω18'04	1°32'57
evening set	-1024 Aug 04 j 15:15	16°Ω37'02		minimum elong	-1018 Sep 03 j 05:39	0°Ω18'04	1°32'57
				morning rise	-1018 Sep 18 j 19:03	0°Ω52'36	
conjunction	-1024 Aug 20 j 12:15	17°Ω12'10	1°13'55	retrograde	-1018 Dec 14 j 05:13	2°Ω44'19	
minimum elong	-1024 Aug 20 j 12:15	17°Ω12'10	1°13'55	opposition	-1017 Mar 01 j 20:19	1°Ω22'37	1°40'43
max. Earth dist.	-1024 Aug 19 j 13:05	17°Ω10'00	31.26738 AU	min. Earth dist.	-1017 Mar 02 j 19:24	1°Ω21'02	29.31036 AU
morning rise	-1024 Sep 05 j 05:19	17°Ω46'58			-1017 May 09 j 18:32	30°Ω	
retrograde	-1024 Nov 30 j 17:07	19°Ω38'41		direct	-1017 May 22 j 00:12	29°Ω57'36	
opposition	-1023 Feb 16 j 02:00	18°Ω16'52	1°20'47		-1017 Jun 03 j 06:58	0°Ω	

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Attention, astronomical year style is used: The year -1017 in astronomical counting style is the year 1018 BCE in historical counting style.

evening set	-1017 Aug 20 j 23:43	1° \mathring{N} 53'53		opposition	-1010 Mar 17 j 03:17	16° \mathring{N} 34'59	1°57'19
				min. Earth dist.	-1010 Mar 18 j 00:25	16° \mathring{N} 33'32	29.33783 AU
conjunction	-1017 Sep 05 j 16:14	2° \mathring{N} 28'40	1°35'40	direct	-1010 Jun 06 j 11:51	15° \mathring{N} 10'16	
minimum elong	-1017 Sep 05 j 16:14	2° \mathring{N} 28'40	1°35'41	evening set	-1010 Sep 05 j 02:29	17° \mathring{N} 06'24	
max. Earth dist.	-1017 Sep 04 j 16:05	2° \mathring{N} 26'25	31.31050 AU				
morning rise	-1017 Sep 21 j 04:56	3° \mathring{N} 03'09		conjunction	-1010 Sep 20 j 14:43	17° \mathring{N} 40'55	1°50'41
retrograde	-1017 Dec 16 j 14:18	4° \mathring{N} 54'52		minimum elong	-1010 Sep 20 j 14:42	17° \mathring{N} 40'55	1°50'41
opposition	-1016 Mar 03 j 07:31	3° \mathring{N} 33'08	1°43'33	max. Earth dist.	-1010 Sep 19 j 17:19	17° \mathring{N} 38'55	31.33888 AU
min. Earth dist.	-1016 Mar 04 j 06:56	3° \mathring{N} 31'32	29.31278 AU	morning rise	-1010 Oct 05 j 23:34	18° \mathring{N} 15'08	
direct	-1016 May 23 j 13:06	2° \mathring{N} 08'07		retrograde	-1010 Dec 31 j 12:43	20° \mathring{N} 07'12	
evening set	-1016 Aug 22 j 10:49	4° \mathring{N} 04'21		opposition	-1009 Mar 19 j 14:46	18° \mathring{N} 45'32	1°59'02
max. Earth dist.	-1016 Sep 06 j 01:30	4° \mathring{N} 36'46	31.31284 AU	min. Earth dist.	-1009 Mar 20 j 11:31	18° \mathring{N} 44'07	29.34234 AU
				direct	-1009 Jun 08 j 23:33	17° \mathring{N} 20'53	
conjunction	-1016 Sep 07 j 02:30	4° \mathring{N} 39'06	1°38'15	evening set	-1009 Sep 07 j 13:01	19° \mathring{N} 17'00	
minimum elong	-1016 Sep 07 j 02:30	4° \mathring{N} 39'06	1°38'15	max. Earth dist.	-1009 Sep 22 j 02:27	19° \mathring{N} 49'24	31.34287 AU
morning rise	-1016 Sep 22 j 14:46	5° \mathring{N} 13'32					
retrograde	-1016 Dec 18 j 01:41	7° \mathring{N} 05'15		conjunction	-1009 Sep 23 j 00:34	19° \mathring{N} 51'28	1°52'13
opposition	-1015 Mar 05 j 18:37	5° \mathring{N} 43'29	1°46'15	minimum elong	-1009 Sep 23 j 00:34	19° \mathring{N} 51'28	1°52'13
min. Earth dist.	-1015 Mar 06 j 17:03	5° \mathring{N} 41'57	29.31530 AU	morning rise	-1009 Oct 08 j 09:04	20° \mathring{N} 25'41	
direct	-1015 May 26 j 00:35	4° \mathring{N} 18'28		retrograde	-1008 Jan 02 j 23:39	22° \mathring{N} 17'49	
evening set	-1015 Aug 24 j 21:37	6° \mathring{N} 14'41		opposition	-1008 Mar 21 j 02:24	20° \mathring{N} 56'09	2°00'36
				min. Earth dist.	-1008 Mar 21 j 22:55	20° \mathring{N} 54'46	29.34585 AU
conjunction	-1015 Sep 09 j 12:50	6° \mathring{N} 49'23	1°40'42	direct	-1008 Jun 10 j 09:49	19° \mathring{N} 31'34	
minimum elong	-1015 Sep 09 j 12:50	6° \mathring{N} 49'23	1°40'42	evening set	-1008 Sep 08 j 23:22	21° \mathring{N} 27'38	
max. Earth dist.	-1015 Sep 08 j 13:12	6° \mathring{N} 47'11	31.31551 AU				
morning rise	-1015 Sep 25 j 00:19	7° \mathring{N} 23'47		conjunction	-1008 Sep 24 j 10:31	22° \mathring{N} 02'04	1°53'35
retrograde	-1015 Dec 20 j 10:53	9° \mathring{N} 15'31		minimum elong	-1008 Sep 24 j 10:30	22° \mathring{N} 02'04	1°53'34
opposition	-1014 Mar 08 j 05:59	7° \mathring{N} 53'44	1°48'47	max. Earth dist.	-1008 Sep 23 j 13:38	22° \mathring{N} 00'07	31.34562 AU
min. Earth dist.	-1014 Mar 09 j 04:55	7° \mathring{N} 52'10	29.31840 AU	morning rise	-1008 Oct 09 j 18:21	22° \mathring{N} 36'15	
direct	-1014 May 28 j 12:10	6° \mathring{N} 28'45		retrograde	-1007 Jan 04 j 08:32	24° \mathring{N} 28'27	
evening set	-1014 Aug 27 j 08:18	8° \mathring{N} 24'56		opposition	-1007 Mar 23 j 14:13	23° \mathring{N} 06'47	2°01'58
				min. Earth dist.	-1007 Mar 24 j 10:59	23° \mathring{N} 05'22	29.34788 AU
conjunction	-1014 Sep 11 j 22:47	8° \mathring{N} 59'35	1°43'00	direct	-1007 Jun 12 j 21:52	21° \mathring{N} 42'14	
minimum elong	-1014 Sep 11 j 22:47	8° \mathring{N} 59'34	1°42'59	evening set	-1007 Sep 11 j 09:51	23° \mathring{N} 38'15	
max. Earth dist.	-1014 Sep 10 j 23:00	8° \mathring{N} 57'21	31.31909 AU				
morning rise	-1014 Sep 27 j 09:52	9° \mathring{N} 33'56		conjunction	-1007 Sep 26 j 20:17	24° \mathring{N} 12'39	1°54'48
retrograde	-1014 Dec 22 j 22:15	11° \mathring{N} 25'43		minimum elong	-1007 Sep 26 j 20:17	24° \mathring{N} 12'39	1°54'48
opposition	-1013 Mar 10 j 17:09	10° \mathring{N} 03'56	1°51'09	max. Earth dist.	-1007 Sep 25 j 22:31	24° \mathring{N} 10'37	31.34701 AU
min. Earth dist.	-1013 Mar 11 j 14:35	10° \mathring{N} 02'29	29.32245 AU	morning rise	-1007 Oct 12 j 03:50	24° \mathring{N} 46'48	
direct	-1013 May 31 j 01:19	8° \mathring{N} 39'00		retrograde	-1006 Jan 06 j 20:05	26° \mathring{N} 39'04	
evening set	-1013 Aug 29 j 18:56	10° \mathring{N} 35'10		opposition	-1006 Mar 26 j 01:58	25° \mathring{N} 17'21	2°03'11
max. Earth dist.	-1013 Sep 13 j 10:01	11° \mathring{N} 07'39	31.32350 AU	min. Earth dist.	-1006 Mar 26 j 21:45	25° \mathring{N} 16'01	29.34864 AU
				direct	-1006 Jun 15 j 08:19	23° \mathring{N} 52'49	
conjunction	-1013 Sep 14 j 08:54	11° \mathring{N} 09'47	1°45'09	evening set	-1006 Sep 13 j 19:55	25° \mathring{N} 48'47	
minimum elong	-1013 Sep 14 j 08:54	11° \mathring{N} 09'47	1°45'09	max. Earth dist.	-1006 Sep 28 j 09:24	26° \mathring{N} 21'13	31.34702 AU
morning rise	-1013 Sep 29 j 19:20	11° \mathring{N} 44'06					
retrograde	-1013 Dec 25 j 08:51	13° \mathring{N} 35'56		conjunction	-1006 Sep 29 j 06:02	26° \mathring{N} 23'08	1°55'51
opposition	-1012 Mar 12 j 04:22	12° \mathring{N} 14'11	1°53'22	minimum elong	-1006 Sep 29 j 06:02	26° \mathring{N} 23'08	1°55'50
min. Earth dist.	-1012 Mar 13 j 02:24	12° \mathring{N} 12'41	29.32732 AU	morning rise	-1006 Oct 14 j 13:01	26° \mathring{N} 57'16	
direct	-1012 Jun 01 j 12:55	10° \mathring{N} 49'19		retrograde	-1005 Jan 09 j 05:35	28° \mathring{N} 49'35	
evening set	-1012 Aug 31 j 05:34	12° \mathring{N} 45'28		opposition	-1005 Mar 28 j 13:50	27° \mathring{N} 27'49	2°04'13
				min. Earth dist.	-1005 Mar 29 j 10:22	27° \mathring{N} 26'26	29.34804 AU
conjunction	-1012 Sep 15 j 18:55	13° \mathring{N} 20'03	1°47'09	direct	-1005 Jun 17 j 19:52	26° \mathring{N} 03'18	
minimum elong	-1012 Sep 15 j 18:55	13° \mathring{N} 20'03	1°47'08	evening set	-1005 Sep 16 j 06:07	27° \mathring{N} 59'10	
max. Earth dist.	-1012 Sep 14 j 20:28	13° \mathring{N} 17'57	31.32870 AU				
morning rise	-1012 Oct 01 j 04:52	13° \mathring{N} 54'20		conjunction	-1005 Oct 01 j 15:38	28° \mathring{N} 33'30	1°56'44
retrograde	-1012 Dec 26 j 18:11	15° \mathring{N} 46'14		minimum elong	-1005 Oct 01 j 15:38	28° \mathring{N} 33'30	1°56'44
opposition	-1011 Mar 14 j 15:44	14° \mathring{N} 24'31	1°55'26	max. Earth dist.	-1005 Sep 30 j 18:44	28° \mathring{N} 31'33	31.34599 AU
min. Earth dist.	-1011 Mar 15 j 12:32	14° \mathring{N} 23'06	29.33259 AU	morning rise	-1005 Oct 16 j 22:21	29° \mathring{N} 07'36	
direct	-1011 Jun 04 j 01:32	12° \mathring{N} 59'44			-1005 Nov 11 j 16:21	0° \mathring{N}	
evening set	-1011 Sep 02 j 16:02	14° \mathring{N} 55'53		retrograde	-1004 Jan 11 j 17:05	0° \mathring{N} 59'56	
max. Earth dist.	-1011 Sep 17 j 06:20	15° \mathring{N} 28'20	31.33393 AU		-1004 Mar 16 j 11:10	30° \mathring{N}	
				opposition	-1004 Mar 30 j 01:26	29° \mathring{N} 38'07	2°05'05
conjunction	-1011 Sep 18 j 04:45	15° \mathring{N} 30'25	1°48'59	min. Earth dist.	-1004 Mar 30 j 20:38	29° \mathring{N} 36'49	29.34656 AU
minimum elong	-1011 Sep 18 j 04:45	15° \mathring{N} 30'25	1°49'00	direct	-1004 Jun 19 j 09:21	28° \mathring{N} 13'36	
morning rise	-1011 Oct 03 j 14:10	16° \mathring{N} 04'41			-1004 Sep 13 j 08:14	0° \mathring{N}	
retrograde	-1011 Dec 29 j 03:45	17° \mathring{N} 56'40		evening set	-1004 Sep 17 j 16:06	0° \mathring{N} 09'23	

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Attention, astronomical year style is used: The year -1004 in astronomical counting style is the year 1005 BCE in historical counting style.

max. Earth dist.	-1004 Oct 02 j 05:09	0° <u>0</u> 41'49	31.34421 AU	min. Earth dist.	-997 Apr 16 j 03:25	14° <u>0</u> 47'25	29.34603 AU
				direct	-997 Jul 05 j 16:41	13° <u>0</u> 24'15	
conjunction	-1004 Oct 03 j 01:12	0° <u>0</u> 43'41	1°57'27	evening set	-997 Oct 03 j 11:32	15° <u>0</u> 19'37	
minimum elong	-1004 Oct 03 j 01:12	0° <u>0</u> 43'41	1°57'26				
morning rise	-1004 Oct 18 j 07:28	1° <u>0</u> 17'45		conjunction	-997 Oct 18 j 17:57	15° <u>0</u> 53'46	1°57'48
retrograde	-1003 Jan 13 j 03:49	3° <u>0</u> 10'09		minimum elong	-997 Oct 18 j 17:57	15° <u>0</u> 53'46	1°57'47
opposition	-1003 Apr 01 j 13:25	1° <u>0</u> 48'15	2°05'46	max. Earth dist.	-997 Oct 18 j 03:31	15° <u>0</u> 52'24	31.34476 AU
min. Earth dist.	-1003 Apr 02 j 09:01	1° <u>0</u> 46'55	29.34479 AU	morning rise	-997 Nov 02 j 22:09	16° <u>0</u> 27'45	
direct	-1003 Jun 21 j 21:12	0° <u>0</u> 23'44		retrograde	-996 Jan 29 j 02:06	18° <u>0</u> 20'49	
evening set	-1003 Sep 20 j 01:50	2° <u>0</u> 19'26		opposition	-996 Apr 17 j 01:35	16° <u>0</u> 58'49	2°05'30
				min. Earth dist.	-996 Apr 17 j 16:14	16° <u>0</u> 57'50	29.34601 AU
conjunction	-1003 Oct 05 j 10:29	2° <u>0</u> 53'42	1°58'00	direct	-996 Jul 07 j 03:30	15° <u>0</u> 34'47	
minimum elong	-1003 Oct 05 j 10:28	2° <u>0</u> 53'42	1°58'01	evening set	-996 Oct 04 j 21:11	17° <u>0</u> 30'06	
max. Earth dist.	-1003 Oct 04 j 15:20	2° <u>0</u> 51'54	31.34257 AU				
morning rise	-1003 Oct 20 j 16:24	3° <u>0</u> 27'44		conjunction	-996 Oct 20 j 03:10	18° <u>0</u> 04'14	1°57'10
retrograde	-1002 Jan 15 j 13:01	5° <u>0</u> 20'11		minimum elong	-996 Oct 20 j 03:10	18° <u>0</u> 04'14	1°57'09
opposition	-1002 Apr 04 j 01:17	3° <u>0</u> 58'14	2°06'16	max. Earth dist.	-996 Oct 19 j 12:48	18° <u>0</u> 02'53	31.34425 AU
min. Earth dist.	-1002 Apr 04 j 19:13	3° <u>0</u> 57'01	29.34332 AU	morning rise	-996 Nov 04 j 07:16	18° <u>0</u> 38'14	
direct	-1002 Jun 24 j 10:18	2° <u>0</u> 33'44		retrograde	-995 Jan 30 j 14:31	20° <u>0</u> 31'25	
evening set	-1002 Sep 22 j 11:38	4° <u>0</u> 29'21		opposition	-995 Apr 19 j 13:56	19° <u>0</u> 09'24	2°04'45
				min. Earth dist.	-995 Apr 20 j 03:04	19° <u>0</u> 08'31	29.34479 AU
conjunction	-1002 Oct 07 j 19:47	5° <u>0</u> 03'35	1°58'24	direct	-995 Jul 09 j 16:05	17° <u>0</u> 45'26	
minimum elong	-1002 Oct 07 j 19:47	5° <u>0</u> 03'35	1°58'23	evening set	-995 Oct 07 j 06:38	19° <u>0</u> 40'42	
max. Earth dist.	-1002 Oct 07 j 00:56	5° <u>0</u> 01'49	31.34143 AU				
morning rise	-1002 Oct 23 j 01:24	5° <u>0</u> 37'36		conjunction	-995 Oct 22 j 12:23	20° <u>0</u> 14'50	1°56'22
retrograde	-1001 Jan 17 j 23:00	7° <u>0</u> 30'06		minimum elong	-995 Oct 22 j 12:23	20° <u>0</u> 14'50	1°56'22
opposition	-1001 Apr 06 j 13:05	6° <u>0</u> 08'07	2°06'36	max. Earth dist.	-995 Oct 21 j 22:38	20° <u>0</u> 13'33	31.34227 AU
min. Earth dist.	-1001 Apr 07 j 06:48	6° <u>0</u> 06'55	29.34275 AU	morning rise	-995 Nov 06 j 16:17	20° <u>0</u> 48'49	
direct	-1001 Jun 26 j 21:17	4° <u>0</u> 43'39		retrograde	-994 Feb 02 j 02:25	22° <u>0</u> 42'08	
evening set	-1001 Sep 24 j 21:16	6° <u>0</u> 39'12		opposition	-994 Apr 22 j 02:31	21° <u>0</u> 20'05	2°03'48
max. Earth dist.	-1001 Oct 09 j 11:55	7° <u>0</u> 11'48	31.34132 AU	min. Earth dist.	-994 Apr 22 j 16:10	21° <u>0</u> 19'09	29.34210 AU
				direct	-994 Jul 12 j 03:16	19° <u>0</u> 56'11	
conjunction	-1001 Oct 10 j 05:08	7° <u>0</u> 13'25	1°58'37	evening set	-994 Oct 09 j 16:10	21° <u>0</u> 51'23	
minimum elong	-1001 Oct 10 j 05:08	7° <u>0</u> 13'25	1°58'37				
morning rise	-1001 Oct 25 j 10:21	7° <u>0</u> 47'25		conjunction	-994 Oct 24 j 21:42	22° <u>0</u> 25'30	1°55'24
retrograde	-1000 Jan 20 j 07:58	9° <u>0</u> 40'01		minimum elong	-994 Oct 24 j 21:42	22° <u>0</u> 25'30	1°55'24
opposition	-1000 Apr 08 j 01:02	8° <u>0</u> 18'00	2°06'45	max. Earth dist.	-994 Oct 24 j 08:39	22° <u>0</u> 24'16	31.33886 AU
min. Earth dist.	-1000 Apr 08 j 17:42	8° <u>0</u> 16'52	29.34296 AU	morning rise	-994 Nov 09 j 01:27	22° <u>0</u> 59'29	
direct	-1000 Jun 28 j 09:45	6° <u>0</u> 53'36		retrograde	-993 Feb 04 j 12:21	24° <u>0</u> 52'53	
evening set	-1000 Sep 26 j 06:56	8° <u>0</u> 49'06		opposition	-993 Apr 24 j 14:46	23° <u>0</u> 30'47	2°02'42
				min. Earth dist.	-993 Apr 25 j 03:08	23° <u>0</u> 29'57	29.33779 AU
conjunction	-1000 Oct 11 j 14:14	9° <u>0</u> 23'17	1°58'40	direct	-993 Jul 14 j 16:14	22° <u>0</u> 06'55	
minimum elong	-1000 Oct 11 j 14:14	9° <u>0</u> 23'17	1°58'39	evening set	-993 Oct 12 j 01:41	24° <u>0</u> 02'02	
max. Earth dist.	-1000 Oct 10 j 20:57	9° <u>0</u> 21'40	31.34197 AU				
morning rise	-1000 Oct 26 j 19:18	9° <u>0</u> 57'18		conjunction	-993 Oct 27 j 06:55	24° <u>0</u> 36'09	1°54'17
retrograde	-999 Jan 21 j 18:55	11° <u>0</u> 49'59		minimum elong	-993 Oct 27 j 06:55	24° <u>0</u> 36'09	1°54'17
opposition	-999 Apr 10 j 13:04	10° <u>0</u> 27'58	2°06'42	max. Earth dist.	-993 Oct 26 j 17:39	24° <u>0</u> 34'54	31.33386 AU
min. Earth dist.	-999 Apr 11 j 04:46	10° <u>0</u> 26'54	29.34396 AU	morning rise	-993 Nov 11 j 10:39	25° <u>0</u> 10'08	
direct	-999 Jun 30 j 19:47	9° <u>0</u> 03'40		retrograde	-992 Feb 06 j 23:25	27° <u>0</u> 03'38	
evening set	-999 Sep 28 j 16:27	10° <u>0</u> 59'07		opposition	-992 Apr 26 j 03:20	25° <u>0</u> 41'28	2°01'25
				min. Earth dist.	-992 Apr 26 j 15:43	25° <u>0</u> 40'38	29.33220 AU
conjunction	-999 Oct 13 j 23:33	11° <u>0</u> 33'17	1°58'33	direct	-992 Jul 16 j 04:03	24° <u>0</u> 17'37	
minimum elong	-999 Oct 13 j 23:33	11° <u>0</u> 33'17	1°58'34	evening set	-992 Oct 13 j 10:53	26° <u>0</u> 12'38	
max. Earth dist.	-999 Oct 13 j 08:08	11° <u>0</u> 31'50	31.34314 AU				
morning rise	-999 Oct 29 j 04:11	12° <u>0</u> 07'17		conjunction	-992 Oct 28 j 16:03	26° <u>0</u> 46'44	1°53'00
retrograde	-998 Jan 24 j 04:00	14° <u>0</u> 00'06		minimum elong	-992 Oct 28 j 16:03	26° <u>0</u> 46'44	1°52'59
opposition	-998 Apr 13 j 01:12	12° <u>0</u> 38'05	2°06'29	max. Earth dist.	-992 Oct 28 j 04:25	26° <u>0</u> 45'39	31.32779 AU
min. Earth dist.	-998 Apr 13 j 16:41	12° <u>0</u> 37'02	29.34513 AU	morning rise	-992 Nov 12 j 19:33	27° <u>0</u> 20'44	
direct	-998 Jul 03 j 07:01	11° <u>0</u> 13'52		retrograde	-991 Feb 08 j 08:53	29° <u>0</u> 14'18	
evening set	-998 Oct 01 j 02:00	13° <u>0</u> 09'16		opposition	-991 Apr 28 j 15:54	27° <u>0</u> 52'03	1°59'58
				min. Earth dist.	-991 Apr 29 j 03:21	27° <u>0</u> 51'17	29.32564 AU
conjunction	-998 Oct 16 j 08:37	13° <u>0</u> 43'26	1°58'15	direct	-991 Jul 18 j 17:34	26° <u>0</u> 28'13	
minimum elong	-998 Oct 16 j 08:37	13° <u>0</u> 43'26	1°58'15	evening set	-991 Oct 15 j 20:12	28° <u>0</u> 23'08	
max. Earth dist.	-998 Oct 15 j 16:52	13° <u>0</u> 41'57	31.34431 AU				
morning rise	-998 Oct 31 j 13:12	14° <u>0</u> 17'26		conjunction	-991 Oct 31 j 01:00	28° <u>0</u> 57'13	1°51'34
retrograde	-997 Jan 26 j 15:54	16° <u>0</u> 10'22		minimum elong	-991 Oct 31 j 01:01	28° <u>0</u> 57'13	1°51'34
opposition	-997 Apr 15 j 13:18	14° <u>0</u> 48'22	2°06'05	max. Earth dist.	-991 Oct 30 j 13:15	28° <u>0</u> 56'07	31.32114 AU

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Attention, astronomical year style is used: The year -991 in astronomical counting style is the year 992 BCE in historical counting style.

morning rise	-991 Nov 15 j 04:37	29° <u>♌</u> 31'13		direct	-984 Aug 02 j 22:33	11° <u>♌</u> 42'17	
	-991 Nov 28 j 15:52	0° <u>♌</u>		evening set	-984 Oct 30 j 11:42	13° <u>♌</u> 36'38	
retrograde	-990 Feb 10 j 19:38	1° <u>♌</u> 24'53					
opposition	-990 May 01 j 04:23	0° <u>♌</u> 02'32	1°58'20	conjunction	-984 Nov 14 j 15:50	14° <u>♌</u> 10'45	1°37'07
min. Earth dist.	-990 May 01 j 14:47	0° <u>♌</u> 01'50	29.31906 AU	minimum elong	-984 Nov 14 j 15:50	14° <u>♌</u> 10'45	1°37'06
	-990 May 02 j 18:02	30° <u>♋</u>		max. Earth dist.	-984 Nov 14 j 10:45	14° <u>♌</u> 10'16	31.28592 AU
direct	-990 Jul 21 j 04:08	28° <u>♌</u> 38'43		morning rise	-984 Nov 29 j 19:39	14° <u>♌</u> 44'52	
	-990 Oct 02 j 09:15	0° <u>♌</u>			-984 Dec 06 j 18:21	15° <u>♌</u>	
evening set	-990 Oct 18 j 05:12	0° <u>♌</u> 33'31		retrograde	-983 Feb 26 j 01:47	16° <u>♌</u> 39'23	
				opposition	-983 May 16 j 21:03	15° <u>♌</u> 16'42	1°42'20
conjunction	-990 Nov 02 j 10:02	1° <u>♌</u> 07'36	1°49'58	min. Earth dist.	-983 May 17 j 01:16	15° <u>♌</u> 16'25	29.28390 AU
minimum elong	-990 Nov 02 j 10:02	1° <u>♌</u> 07'36	1°49'56		-983 May 27 j 06:42	15° <u>♋</u>	
max. Earth dist.	-990 Nov 02 j 00:18	1° <u>♌</u> 06'41	31.31465 AU	direct	-983 Aug 05 j 09:55	13° <u>♌</u> 53'17	
morning rise	-990 Nov 17 j 13:27	1° <u>♌</u> 41'37			-983 Oct 09 j 21:12	15° <u>♌</u>	
retrograde	-989 Feb 13 j 03:56	3° <u>♌</u> 35'22		evening set	-983 Nov 01 j 20:50	15° <u>♌</u> 47'34	
opposition	-989 May 03 j 16:56	2° <u>♌</u> 12'57	1°56'33				
min. Earth dist.	-989 May 04 j 02:46	2° <u>♌</u> 12'17	29.31275 AU	conjunction	-983 Nov 17 j 01:06	16° <u>♌</u> 21'41	1°34'27
direct	-989 Jul 23 j 16:03	0° <u>♌</u> 49'09		minimum elong	-983 Nov 17 j 01:07	16° <u>♌</u> 21'42	1°34'27
evening set	-989 Oct 20 j 14:22	2° <u>♌</u> 43'51		max. Earth dist.	-983 Nov 16 j 21:40	16° <u>♌</u> 21'22	31.27983 AU
				morning rise	-983 Dec 02 j 04:54	16° <u>♌</u> 55'49	
conjunction	-989 Nov 04 j 18:53	3° <u>♌</u> 17'56	1°48'12	retrograde	-982 Feb 28 j 12:25	18° <u>♌</u> 50'27	
minimum elong	-989 Nov 04 j 18:54	3° <u>♌</u> 17'56	1°48'12	opposition	-982 May 19 j 09:53	17° <u>♌</u> 27'44	1°39'26
max. Earth dist.	-989 Nov 04 j 09:15	3° <u>♌</u> 17'02	31.30880 AU	min. Earth dist.	-982 May 19 j 13:19	17° <u>♌</u> 27'30	29.27705 AU
morning rise	-989 Nov 19 j 22:25	3° <u>♌</u> 51'57		direct	-982 Aug 07 j 23:07	16° <u>♌</u> 04'21	
retrograde	-988 Feb 15 j 15:29	5° <u>♌</u> 45'49		evening set	-982 Nov 04 j 06:07	17° <u>♌</u> 58'34	
opposition	-988 May 05 j 05:21	4° <u>♌</u> 23'20	1°54'35				
min. Earth dist.	-988 May 05 j 13:17	4° <u>♌</u> 22'48	29.30728 AU	conjunction	-982 Nov 19 j 10:15	18° <u>♌</u> 32'42	1°31'40
direct	-988 Jul 25 j 01:54	2° <u>♌</u> 59'34		minimum elong	-982 Nov 19 j 10:16	18° <u>♌</u> 32'42	1°31'39
evening set	-988 Oct 21 j 23:24	4° <u>♌</u> 54'12		max. Earth dist.	-982 Nov 19 j 06:21	18° <u>♌</u> 32'20	31.27233 AU
				morning rise	-982 Dec 04 j 14:22	19° <u>♌</u> 06'52	
conjunction	-988 Nov 06 j 03:55	5° <u>♌</u> 28'17	1°46'17	retrograde	-981 Mar 03 j 00:10	21° <u>♌</u> 01'37	
minimum elong	-988 Nov 06 j 03:55	5° <u>♌</u> 28'17	1°46'16	opposition	-981 May 21 j 22:48	19° <u>♌</u> 38'50	1°36'23
max. Earth dist.	-988 Nov 05 j 19:59	5° <u>♌</u> 27'32	31.30373 AU	min. Earth dist.	-981 May 22 j 01:30	19° <u>♌</u> 38'39	29.26878 AU
morning rise	-988 Nov 21 j 07:20	6° <u>♌</u> 02'19		direct	-981 Aug 10 j 09:48	18° <u>♌</u> 15'29	
retrograde	-987 Feb 17 j 01:40	7° <u>♌</u> 56'18		evening set	-981 Nov 06 j 15:12	20° <u>♌</u> 09'36	
opposition	-987 May 07 j 18:06	6° <u>♌</u> 33'46	1°52'28				
min. Earth dist.	-987 May 08 j 01:55	6° <u>♌</u> 33'15	29.30255 AU	conjunction	-981 Nov 21 j 19:31	20° <u>♌</u> 43'45	1°28'44
direct	-987 Jul 27 j 12:41	5° <u>♌</u> 10'05		minimum elong	-981 Nov 21 j 19:32	20° <u>♌</u> 43'45	1°28'44
evening set	-987 Oct 24 j 08:23	7° <u>♌</u> 04'37		max. Earth dist.	-981 Nov 21 j 17:12	20° <u>♌</u> 43'32	31.26326 AU
				morning rise	-981 Dec 06 j 23:37	21° <u>♌</u> 17'56	
conjunction	-987 Nov 08 j 12:45	7° <u>♌</u> 38'42	1°44'13	retrograde	-980 Mar 04 j 09:18	23° <u>♌</u> 12'48	
minimum elong	-987 Nov 08 j 12:46	7° <u>♌</u> 38'42	1°44'13	opposition	-980 May 23 j 11:47	21° <u>♌</u> 49'56	1°33'11
max. Earth dist.	-987 Nov 08 j 05:36	7° <u>♌</u> 38'02	31.29944 AU	min. Earth dist.	-980 May 23 j 14:17	21° <u>♌</u> 49'46	29.25892 AU
morning rise	-987 Nov 23 j 16:18	8° <u>♌</u> 12'45		direct	-980 Aug 11 j 22:23	20° <u>♌</u> 26'36	
retrograde	-986 Feb 19 j 14:00	10° <u>♌</u> 06'52		evening set	-980 Nov 08 j 00:25	22° <u>♌</u> 20'36	
opposition	-986 May 10 j 06:41	8° <u>♌</u> 44'18	1°50'10				
min. Earth dist.	-986 May 10 j 12:31	8° <u>♌</u> 43'55	29.29832 AU	conjunction	-980 Nov 23 j 04:41	22° <u>♌</u> 54'47	1°25'42
direct	-986 Jul 30 j 00:04	7° <u>♌</u> 20'40		minimum elong	-980 Nov 23 j 04:41	22° <u>♌</u> 54'47	1°25'41
evening set	-986 Oct 26 j 17:28	9° <u>♌</u> 15'09		max. Earth dist.	-980 Nov 23 j 02:12	22° <u>♌</u> 54'33	31.25299 AU
				morning rise	-980 Dec 08 j 09:07	23° <u>♌</u> 28'59	
conjunction	-986 Nov 10 j 21:46	9° <u>♌</u> 49'15	1°42'00	retrograde	-979 Mar 06 j 21:26	25° <u>♌</u> 23'57	
minimum elong	-986 Nov 10 j 21:47	9° <u>♌</u> 49'15	1°41'59	opposition	-979 May 26 j 00:42	24° <u>♌</u> 00'59	1°29'52
max. Earth dist.	-986 Nov 10 j 15:28	9° <u>♌</u> 48'40	31.29527 AU	min. Earth dist.	-979 May 26 j 01:37	24° <u>♌</u> 00'56	29.24812 AU
morning rise	-986 Nov 26 j 01:23	10° <u>♌</u> 23'19		direct	-979 Aug 14 j 09:02	22° <u>♌</u> 37'39	
retrograde	-985 Feb 22 j 02:02	12° <u>♌</u> 17'34		evening set	-979 Nov 10 j 09:21	24° <u>♌</u> 31'33	
opposition	-985 May 12 j 19:18	10° <u>♌</u> 54'58	1°47'43				
min. Earth dist.	-985 May 13 j 01:21	10° <u>♌</u> 54'34	29.29413 AU	conjunction	-979 Nov 25 j 13:47	25° <u>♌</u> 05'44	1°22'31
direct	-985 Aug 01 j 09:47	9° <u>♌</u> 31'25		minimum elong	-979 Nov 25 j 13:48	25° <u>♌</u> 05'44	1°22'31
evening set	-985 Oct 29 j 02:34	11° <u>♌</u> 25'50		max. Earth dist.	-979 Nov 25 j 12:43	25° <u>♌</u> 05'38	31.24186 AU
				morning rise	-979 Dec 10 j 18:22	25° <u>♌</u> 39'59	
conjunction	-985 Nov 13 j 06:52	11° <u>♌</u> 59'56	1°39'38	retrograde	-978 Mar 09 j 07:31	27° <u>♌</u> 35'03	
minimum elong	-985 Nov 13 j 06:53	11° <u>♌</u> 59'56	1°39'38	opposition	-978 May 28 j 13:42	26° <u>♌</u> 11'59	1°26'25
max. Earth dist.	-985 Nov 13 j 01:49	11° <u>♌</u> 59'27	31.29099 AU	min. Earth dist.	-978 May 28 j 14:43	26° <u>♌</u> 11'55	29.23682 AU
morning rise	-985 Nov 28 j 10:30	12° <u>♌</u> 34'01		direct	-978 Aug 16 j 20:13	24° <u>♌</u> 48'38	
retrograde	-984 Feb 24 j 13:07	14° <u>♌</u> 28'24		evening set	-978 Nov 12 j 18:24	26° <u>♌</u> 42'26	
opposition	-984 May 14 j 08:04	13° <u>♌</u> 05'46	1°45'06				
min. Earth dist.	-984 May 14 j 12:28	13° <u>♌</u> 05'28	29.28942 AU	conjunction	-978 Nov 27 j 22:54	27° <u>♌</u> 16'38	1°19'14

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Attention, astronomical year style is used: The year -978 in astronomical counting style is the year 979 BCE in historical counting style.

minimum elong	-978 Nov 27 j 22:55	27° M 16'38	1°19'13	opposition	-971 Jun 13 j 08:15	11° 7 30'37	0°59'02
max. Earth dist.	-978 Nov 27 j 22:43	27° M 16'37	31.23071 AU	min. Earth dist.	-971 Jun 13 j 01:47	11° 7 31'03	29.17549 AU
morning rise	-978 Dec 13 j 03:44	27° M 50'54		direct	-971 Sep 01 j 03:42	10° 7 07'36	
retrograde	-977 Mar 11 j 19:32	29° M 46'05		evening set	-971 Nov 27 j 09:58	12° 7 01'00	
opposition	-977 May 31 j 02:23	28° M 22'54	1°22'51				
min. Earth dist.	-977 May 31 j 01:20	28° M 22'59	29.22580 AU	conjunction	-971 Dec 12 j 15:30	12° 7 35'22	0°53'16
direct	-977 Aug 19 j 07:24	26° M 59'34		minimum elong	-971 Dec 12 j 15:30	12° 7 35'22	0°53'15
evening set	-977 Nov 15 j 03:28	28° M 53'18		max. Earth dist.	-971 Dec 12 j 22:06	12° 7 36'00	31.17122 AU
				morning rise	-971 Dec 27 j 22:23	13° 7 09'53	
conjunction	-977 Nov 30 j 08:01	29° M 27'31	1°15'51	retrograde	-970 Mar 27 j 08:35	15° 7 06'02	
minimum elong	-977 Nov 30 j 08:01	29° M 27'31	1°15'50	opposition	-970 Jun 15 j 21:18	13° 7 42'32	0°54'43
max. Earth dist.	-977 Nov 30 j 08:43	29° M 27'35	31.22001 AU	min. Earth dist.	-970 Jun 15 j 13:22	13° 7 43'04	29.16721 AU
	-977 Dec 14 j 17:38	0° 7		direct	-970 Sep 03 j 14:40	12° 7 19'33	
morning rise	-977 Dec 15 j 13:06	0° 7 01'48		evening set	-970 Nov 29 j 19:25	14° 7 12'54	
retrograde	-976 Mar 13 j 07:39	1° 7 57'07					
opposition	-976 Jun 01 j 15:24	0° 7 33'51	1°19'10	conjunction	-970 Dec 15 j 01:12	14° 7 47'18	0°49'11
min. Earth dist.	-976 Jun 01 j 14:11	0° 7 33'56	29.21560 AU	minimum elong	-970 Dec 15 j 01:12	14° 7 47'18	0°49'09
	-976 Jun 23 j 03:08	30° 8 M		max. Earth dist.	-970 Dec 15 j 08:46	14° 7 48'01	31.16233 AU
direct	-976 Aug 20 j 16:43	29° M 10'32		morning rise	-970 Dec 30 j 08:20	15° 7 21'51	
	-976 Oct 15 j 06:49	0° 7		retrograde	-969 Mar 29 j 18:38	17° 7 18'09	
evening set	-976 Nov 16 j 12:19	1° 7 04'11		opposition	-969 Jun 18 j 10:24	15° 7 54'34	0°50'19
				min. Earth dist.	-969 Jun 18 j 02:52	15° 7 55'05	29.15774 AU
conjunction	-976 Dec 01 j 17:05	1° 7 38'25	1°12'20	direct	-969 Sep 06 j 01:43	14° 7 31'37	
minimum elong	-976 Dec 01 j 17:05	1° 7 38'26	1°12'19	evening set	-969 Dec 02 j 04:56	16° 7 24'54	
max. Earth dist.	-976 Dec 01 j 19:32	1° 7 38'39	31.21040 AU				
morning rise	-976 Dec 16 j 22:21	2° 7 12'45		conjunction	-969 Dec 17 j 10:57	16° 7 59'19	0°45'02
retrograde	-975 Mar 15 j 19:10	4° 7 08'11		minimum elong	-969 Dec 17 j 10:57	16° 7 59'19	0°45'01
opposition	-975 Jun 04 j 04:19	2° 7 44'52	1°15'21	max. Earth dist.	-969 Dec 17 j 19:06	17° 7 00'06	31.15236 AU
min. Earth dist.	-975 Jun 04 j 00:58	2° 7 45'05	29.20638 AU	morning rise	-968 Jan 01 j 18:26	17° 7 33'55	
direct	-975 Aug 23 j 05:16	1° 7 21'36		retrograde	-968 Mar 31 j 06:46	19° 7 30'19	
evening set	-975 Nov 18 j 21:25	3° 7 15'11		opposition	-968 Jun 19 j 23:32	18° 7 06'40	0°45'50
				min. Earth dist.	-968 Jun 19 j 14:22	18° 7 07'18	29.14706 AU
conjunction	-975 Dec 04 j 02:12	3° 7 49'27	1°08'43	direct	-968 Sep 07 j 12:50	16° 7 43'43	
minimum elong	-975 Dec 04 j 02:13	3° 7 49'27	1°08'43	evening set	-968 Dec 03 j 14:24	18° 7 36'56	
max. Earth dist.	-975 Dec 04 j 04:54	3° 7 49'42	31.20173 AU				
morning rise	-975 Dec 19 j 07:53	4° 7 23'48		conjunction	-968 Dec 18 j 20:36	19° 7 11'23	0°40'49
retrograde	-974 Mar 18 j 08:51	6° 7 19'23		minimum elong	-968 Dec 18 j 20:36	19° 7 11'23	0°40'48
opposition	-974 Jun 06 j 17:11	4° 7 56'01	1°11'26	max. Earth dist.	-968 Dec 19 j 05:01	19° 7 12'10	31.14108 AU
min. Earth dist.	-974 Jun 06 j 13:19	4° 7 56'16	29.19820 AU	morning rise	-967 Jan 03 j 04:32	19° 7 46'00	
direct	-974 Aug 25 j 16:00	3° 7 32'48		retrograde	-967 Apr 02 j 18:55	21° 7 42'31	
evening set	-974 Nov 21 j 06:22	5° 7 26'21		opposition	-967 Jun 22 j 12:49	20° 7 18'46	0°41'18
				min. Earth dist.	-967 Jun 22 j 04:02	20° 7 19'22	29.13528 AU
conjunction	-974 Dec 06 j 11:30	6° 7 00'38	1°05'00	direct	-967 Sep 09 j 22:15	18° 7 55'48	
minimum elong	-974 Dec 06 j 11:30	6° 7 00'38	1°04'59	evening set	-967 Dec 05 j 23:52	20° 7 48'55	
max. Earth dist.	-974 Dec 06 j 16:16	6° 7 01'05	31.19392 AU				
morning rise	-974 Dec 21 j 17:19	6° 7 35'02		conjunction	-967 Dec 21 j 06:27	21° 7 23'23	0°36'32
retrograde	-973 Mar 20 j 20:19	8° 7 30'45		minimum elong	-967 Dec 21 j 06:27	21° 7 23'23	0°36'32
opposition	-973 Jun 09 j 06:06	7° 7 07'21	1°07'24	max. Earth dist.	-967 Dec 21 j 16:15	21° 7 24'18	31.12898 AU
min. Earth dist.	-973 Jun 09 j 01:01	7° 7 07'41	29.19051 AU	morning rise	-966 Jan 05 j 14:40	21° 7 58'02	
direct	-973 Aug 28 j 04:40	5° 7 44'11		retrograde	-966 Apr 05 j 06:56	23° 7 54'39	
evening set	-973 Nov 23 j 15:31	7° 7 37'42		opposition	-966 Jun 25 j 01:41	22° 7 30'47	0°36'42
				min. Earth dist.	-966 Jun 24 j 15:19	22° 7 31'29	29.12285 AU
conjunction	-973 Dec 08 j 20:37	8° 7 12'01	1°01'11	direct	-966 Sep 12 j 11:05	21° 7 07'47	
minimum elong	-973 Dec 08 j 20:37	8° 7 12'01	1°01'10	evening set	-966 Dec 08 j 09:25	23° 7 00'50	
max. Earth dist.	-973 Dec 09 j 01:24	8° 7 12'28	31.18649 AU				
morning rise	-973 Dec 24 j 02:53	8° 7 46'27		conjunction	-966 Dec 23 j 16:07	23° 7 35'19	0°32'13
retrograde	-972 Mar 22 j 08:48	10° 7 42'19		minimum elong	-966 Dec 23 j 16:07	23° 7 35'19	0°32'11
opposition	-972 Jun 10 j 19:08	9° 7 18'53	1°03'16	max. Earth dist.	-966 Dec 24 j 01:47	23° 7 36'13	31.11651 AU
min. Earth dist.	-972 Jun 10 j 13:00	9° 7 19'17	29.18315 AU	morning rise	-965 Jan 08 j 00:52	24° 7 10'00	
direct	-972 Aug 29 j 14:58	7° 7 55'47		retrograde	-965 Apr 07 j 20:45	26° 7 06'42	
evening set	-972 Nov 25 j 00:40	9° 7 49'15		opposition	-965 Jun 27 j 14:46	24° 7 42'43	0°32'03
				min. Earth dist.	-965 Jun 27 j 04:06	24° 7 43'26	29.11054 AU
conjunction	-972 Dec 10 j 06:05	10° 7 23'36	0°57'16	direct	-965 Sep 14 j 21:29	23° 7 19'41	
minimum elong	-972 Dec 10 j 06:05	10° 7 23'36	0°57'15	evening set	-965 Dec 10 j 18:47	25° 7 12'40	
max. Earth dist.	-972 Dec 10 j 12:41	10° 7 24'13	31.17904 AU				
morning rise	-972 Dec 25 j 12:31	10° 7 58'04		conjunction	-965 Dec 26 j 01:53	25° 7 47'11	0°27'50
retrograde	-971 Mar 24 j 19:05	12° 7 54'05		minimum elong	-965 Dec 26 j 01:53	25° 7 47'11	0°27'49

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Attention, astronomical year style is used: The year -965 in astronomical counting style is the year 966 BCE in historical counting style.

max. Earth dist.	-965 Dec 26 j 13:38	25° 2 48'17	31.10442 AU	evening set	-959 Dec 23 j 05:21	8° 3 25'47	
morning rise	-964 Jan 10 j 10:50	26° 2 21'54					
retrograde	-964 Apr 09 j 08:11	28° 2 18'41		conjunction	-958 Jan 07 j 14:07	9° 3 00'29	0°00'52
opposition	-964 Jun 29 j 03:45	26° 2 54'37	0°27'21	minimum elong	-958 Jan 07 j 14:08	9° 3 00'29	0°00'52
min. Earth dist.	-964 Jun 28 j 15:48	26° 2 55'26	29.09880 AU	behind sun begin	-958 Jan 07 j 07:43	8° 3 59'54	
direct	-964 Sep 16 j 09:59	25° 2 31'34		behind sun end	-958 Jan 07 j 20:32	9° 3 01'04	
evening set	-964 Dec 12 j 04:24	27° 2 24'30		max. Earth dist.	-958 Jan 08 j 06:25	9° 3 02'01	31.05052 AU
				morning rise	-958 Jan 23 j 01:42	9° 3 35'27	
conjunction	-964 Dec 27 j 11:37	27° 2 59'02	0°23'25	desc. node	-958 Mar 15 j 19:31	11° 3 08'57	
minimum elong	-964 Dec 27 j 11:37	27° 2 59'02	0°23'24	retrograde	-958 Apr 23 j 11:20	11° 3 33'03	
max. Earth dist.	-964 Dec 27 j 23:25	28° 2 00'08	31.09325 AU	opposition	-958 Jul 13 j 09:44	10° 3 08'45	-0°01'35
morning rise	-963 Jan 11 j 21:08	28° 2 33'47		min. Earth dist.	-958 Jul 12 j 17:32	10° 3 09'51	29.04664 AU
	-963 Feb 27 j 02:29	0° 3		direct	-958 Sep 30 j 02:38	8° 3 45'56	
retrograde	-963 Apr 11 j 21:39	0° 3 30'41		evening set	-958 Dec 25 j 15:31	10° 3 38'46	
	-963 May 27 j 04:09	30° 2 4'21					
opposition	-963 Jul 01 j 16:43	29° 2 06'32	0°22'36	conjunction	-957 Jan 10 j 00:46	11° 3 13'29	-0°03'48
min. Earth dist.	-963 Jul 01 j 03:40	29° 2 07'25	29.08826 AU	minimum elong	-957 Jan 10 j 00:45	11° 3 13'29	0°03'49
direct	-963 Sep 18 j 20:30	27° 2 43'30		behind sun begin	-957 Jan 09 j 18:24	11° 3 12'55	
evening set	-963 Dec 14 j 13:54	29° 2 36'22		behind sun end	-957 Jan 10 j 07:07	11° 3 14'04	
	-963 Dec 25 j 02:12	0° 3		max. Earth dist.	-957 Jan 10 j 18:13	11° 3 15'08	31.04224 AU
				morning rise	-957 Jan 25 j 12:36	11° 3 48'30	
conjunction	-963 Dec 29 j 21:34	0° 3 10'57	0°18'58	retrograde	-957 Apr 26 j 00:15	13° 3 46'14	
minimum elong	-963 Dec 29 j 21:34	0° 3 10'57	0°18'57	opposition	-957 Jul 15 j 22:45	12° 3 21'54	-0°06'28
max. Earth dist.	-963 Dec 30 j 11:16	0° 3 12'14	31.08319 AU	min. Earth dist.	-957 Jul 15 j 05:15	12° 3 23'06	29.03784 AU
morning rise	-962 Jan 14 j 07:22	0° 3 45'44		direct	-957 Oct 02 j 15:01	10° 3 59'07	
retrograde	-962 Apr 14 j 09:06	2° 3 42'45		evening set	-957 Dec 28 j 01:52	12° 3 51'57	
opposition	-962 Jul 04 j 05:43	1° 3 18'33	0°17'49				
min. Earth dist.	-962 Jul 03 j 16:07	1° 3 19'28	29.07870 AU	conjunction	-956 Jan 12 j 11:15	13° 3 26'42	-0°08'20
	-962 Sep 04 j 23:13	30° 2 4'21		minimum elong	-956 Jan 12 j 11:15	13° 3 26'42	0°08'20
direct	-962 Sep 21 j 09:14	29° 2 55'33		behind sun begin	-956 Jan 12 j 05:34	13° 3 26'12	
	-962 Oct 07 j 12:12	0° 3		behind sun end	-956 Jan 12 j 16:56	13° 3 27'13	
evening set	-962 Dec 16 j 23:37	1° 3 48'23		max. Earth dist.	-956 Jan 13 j 04:06	13° 3 28'18	31.03287 AU
				morning rise	-956 Jan 27 j 23:40	14° 3 01'45	
conjunction	-961 Jan 01 j 07:30	2° 3 23'00	0°14'29	retrograde	-956 Apr 27 j 14:51	15° 3 59'37	
minimum elong	-961 Jan 01 j 07:30	2° 3 23'00	0°14'28	opposition	-956 Jul 17 j 12:00	14° 3 35'14	-0°11'20
behind sun begin	-961 Jan 01 j 04:29	2° 3 22'43		min. Earth dist.	-956 Jul 16 j 18:44	14° 3 36'25	29.02796 AU
behind sun end	-961 Jan 01 j 10:30	2° 3 23'16		direct	-956 Oct 04 j 00:52	13° 3 12'27	
max. Earth dist.	-961 Jan 01 j 21:27	2° 3 24'18	31.07422 AU	evening set	-956 Dec 29 j 12:14	15° 3 05'16	
morning rise	-961 Jan 16 j 17:46	2° 3 57'50					
retrograde	-961 Apr 16 j 23:01	4° 3 54'59		conjunction	-955 Jan 13 j 22:09	15° 3 40'04	-0°12'52
opposition	-961 Jul 06 j 18:33	3° 3 30'44	0°13'00	minimum elong	-955 Jan 13 j 22:09	15° 3 40'04	0°12'53
min. Earth dist.	-961 Jul 06 j 03:17	3° 3 31'46	29.07016 AU	behind sun begin	-955 Jan 13 j 18:07	15° 3 39'42	
direct	-961 Sep 23 j 20:11	2° 3 07'46		behind sun end	-955 Jan 14 j 02:11	15° 3 40'26	
evening set	-961 Dec 19 j 09:24	4° 3 00'36		max. Earth dist.	-955 Jan 14 j 16:24	15° 3 41'47	31.02233 AU
				morning rise	-955 Jan 29 j 10:50	16° 3 15'09	
conjunction	-960 Jan 03 j 17:35	4° 3 35'14	0°09'58	retrograde	-955 Apr 30 j 03:07	18° 3 13'07	
minimum elong	-960 Jan 03 j 17:35	4° 3 35'14	0°09'58	min. Earth dist.	-955 Jul 19 j 07:09	16° 3 49'53	29.01678 AU
behind sun begin	-960 Jan 03 j 12:22	4° 3 34'46		opposition	-955 Jul 20 j 01:01	16° 3 48'40	-0°16'11
behind sun end	-960 Jan 03 j 22:49	4° 3 35'43		direct	-955 Oct 06 j 12:54	15° 3 25'52	
max. Earth dist.	-960 Jan 04 j 08:45	4° 3 36'40	31.06599 AU	evening set	-955 Dec 31 j 22:47	17° 3 18'39	
morning rise	-960 Jan 19 j 04:15	5° 3 10'07					
retrograde	-960 Apr 18 j 09:48	7° 3 07'25		conjunction	-954 Jan 16 j 08:56	17° 3 53'29	-0°17'23
opposition	-960 Jul 08 j 07:42	5° 3 43'09	0°08'09	minimum elong	-954 Jan 16 j 08:55	17° 3 53'29	0°17'23
min. Earth dist.	-960 Jul 07 j 16:33	5° 3 44'11	29.06224 AU	max. Earth dist.	-954 Jan 17 j 02:32	17° 3 55'08	31.01070 AU
direct	-960 Sep 25 j 07:00	4° 3 20'15		morning rise	-954 Jan 31 j 22:14	18° 3 28'36	
evening set	-960 Dec 20 j 19:11	6° 3 13'04		retrograde	-954 May 02 j 17:43	20° 3 26'39	
				opposition	-954 Jul 22 j 14:03	19° 3 02'06	-0°21'00
conjunction	-959 Jan 05 j 03:46	6° 3 47'44	0°05'27	min. Earth dist.	-954 Jul 21 j 19:51	19° 3 03'21	29.00477 AU
minimum elong	-959 Jan 05 j 03:45	6° 3 47'44	0°05'26	direct	-954 Oct 08 j 23:59	17° 3 39'16	
behind sun begin	-959 Jan 04 j 21:33	6° 3 47'10		evening set	-953 Jan 03 j 09:12	19° 3 32'01	
behind sun end	-959 Jan 05 j 09:56	6° 3 48'17					
max. Earth dist.	-959 Jan 05 j 19:51	6° 3 49'15	31.05834 AU	conjunction	-953 Jan 18 j 19:47	20° 3 06'52	-0°21'52
morning rise	-959 Jan 20 j 14:49	7° 3 22'39		minimum elong	-953 Jan 18 j 19:47	20° 3 06'52	0°21'54
retrograde	-959 Apr 20 j 22:36	9° 3 20'06		max. Earth dist.	-953 Jan 19 j 14:46	20° 3 08'40	30.99830 AU
opposition	-959 Jul 10 j 20:43	7° 3 55'49	0°03'17	morning rise	-953 Feb 03 j 09:24	20° 3 42'01	
min. Earth dist.	-959 Jul 10 j 03:54	7° 3 56'58	29.05458 AU	retrograde	-953 May 05 j 06:21	22° 3 40'08	
direct	-959 Sep 27 j 17:52	6° 3 32'57		min. Earth dist.	-953 Jul 24 j 08:40	21° 3 16'45	28.99229 AU

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Attention, astronomical year style is used: The year -953 in astronomical counting style is the year 954 BCE in historical counting style.

opposition	-953 Jul 25 j 02:57	21° $\overline{3}$ 15'30 -0°25'48	conjunction	-946 Feb 03 j 01:49	5° \approx 41'06 -0°52'08
direct	-953 Oct 11 j 13:29	19° $\overline{3}$ 52'37	minimum elong	-946 Feb 03 j 01:49	5° \approx 41'06 0°52'09
evening set	-952 Jan 05 j 19:46	21° $\overline{3}$ 45'20	max. Earth dist.	-946 Feb 04 j 01:16	5° \approx 43'19 30.93126 AU
			morning rise	-946 Feb 18 j 18:26	6° \approx 16'29
conjunction	-952 Jan 21 j 06:39	22° $\overline{3}$ 20'13 -0°26'20	retrograde	-946 May 20 j 23:34	8° \approx 15'13
minimum elong	-952 Jan 21 j 06:39	22° $\overline{3}$ 20'13 0°26'21	opposition	-946 Aug 09 j 20:12	6° \approx 50'12 -0°57'58
max. Earth dist.	-952 Jan 22 j 01:38	22° $\overline{3}$ 22'01 30.98602 AU	min. Earth dist.	-946 Aug 08 j 21:51	6° \approx 51'45 28.92825 AU
morning rise	-952 Feb 05 j 20:45	22° $\overline{3}$ 55'24	direct	-946 Oct 26 j 18:35	5° \approx 27'15
retrograde	-952 May 06 j 20:35	24° $\overline{3}$ 53'35	evening set	-945 Jan 20 j 23:58	7° \approx 20'02
opposition	-952 Jul 26 j 15:50	23° $\overline{3}$ 28'51 -0°30'34			
min. Earth dist.	-952 Jul 25 j 20:11	23° $\overline{3}$ 30'12 28.98033 AU	conjunction	-945 Feb 05 j 13:23	7° \approx 55'06 -0°56'13
direct	-952 Oct 13 j 01:05	22° $\overline{3}$ 05'56	minimum elong	-945 Feb 05 j 13:23	7° \approx 55'06 0°56'14
evening set	-951 Jan 07 j 06:18	23° $\overline{3}$ 58'37	max. Earth dist.	-945 Feb 06 j 12:05	7° \approx 57'15 30.92420 AU
			morning rise	-945 Feb 21 j 06:32	8° \approx 30'31
conjunction	-951 Jan 22 j 17:32	24° $\overline{3}$ 33'32 -0°30'46	retrograde	-945 May 23 j 14:38	10° \approx 29'20
minimum elong	-951 Jan 22 j 17:32	24° $\overline{3}$ 33'32 0°30'47	min. Earth dist.	-945 Aug 11 j 10:33	9° \approx 05'51 28.92109 AU
max. Earth dist.	-951 Jan 23 j 13:30	24° $\overline{3}$ 35'25 30.97429 AU	opposition	-945 Aug 12 j 08:57	9° \approx 04'18 -1°02'17
morning rise	-951 Feb 07 j 08:05	25° $\overline{3}$ 08'45	direct	-945 Oct 29 j 05:12	7° \approx 41'21
retrograde	-951 May 09 j 07:34	27° $\overline{3}$ 07'01	evening set	-944 Jan 23 j 11:27	9° \approx 34'10
min. Earth dist.	-951 Jul 28 j 09:20	25° $\overline{3}$ 43'32 28.96914 AU			
opposition	-951 Jul 29 j 04:44	25° $\overline{3}$ 42'12 -0°35'16	conjunction	-944 Feb 08 j 01:20	10° \approx 09'16 -1°00'12
direct	-951 Oct 15 j 12:44	24° $\overline{3}$ 19'14	minimum elong	-944 Feb 08 j 01:19	10° \approx 09'16 1°00'13
evening set	-950 Jan 09 j 17:00	26° $\overline{3}$ 11'55	max. Earth dist.	-944 Feb 09 j 00:59	10° \approx 11'30 30.91659 AU
			morning rise	-944 Feb 23 j 18:46	10° \approx 44'43
conjunction	-950 Jan 25 j 04:40	26° $\overline{3}$ 46'51 -0°35'09	retrograde	-944 May 25 j 04:04	12° \approx 43'37
minimum elong	-950 Jan 25 j 04:39	26° $\overline{3}$ 46'50 0°35'09	opposition	-944 Aug 13 j 21:44	11° \approx 18'34 -1°06'30
max. Earth dist.	-950 Jan 26 j 01:27	26° $\overline{3}$ 48'49 30.96367 AU	min. Earth dist.	-944 Aug 12 j 23:41	11° \approx 20'05 28.91311 AU
morning rise	-950 Feb 09 j 19:35	27° $\overline{3}$ 22'06	direct	-944 Oct 30 j 17:50	9° \approx 55'36
retrograde	-950 May 11 j 20:47	29° $\overline{3}$ 20'26	evening set	-943 Jan 24 j 23:03	11° \approx 48'26
opposition	-950 Jul 31 j 17:17	27° $\overline{3}$ 55'33 -0°39'56			
min. Earth dist.	-950 Jul 30 j 20:17	27° $\overline{3}$ 57'00 28.95909 AU	conjunction	-943 Feb 09 j 13:18	12° \approx 23'34 -1°04'07
direct	-950 Oct 18 j 00:29	26° $\overline{3}$ 32'35	minimum elong	-943 Feb 09 j 13:18	12° \approx 23'34 1°04'07
evening set	-949 Jan 12 j 03:50	28° $\overline{3}$ 25'15	max. Earth dist.	-943 Feb 10 j 12:17	12° \approx 25'45 30.90816 AU
			morning rise	-943 Feb 25 j 07:16	12° \approx 59'03
conjunction	-949 Jan 27 j 15:44	29° $\overline{3}$ 00'13 -0°39'29	retrograde	-943 May 27 j 18:59	14° \approx 58'01
minimum elong	-949 Jan 27 j 15:44	29° $\overline{3}$ 00'13 0°39'30	min. Earth dist.	-943 Aug 15 j 11:47	13° \approx 34'29 28.90418 AU
max. Earth dist.	-949 Jan 28 j 12:44	29° $\overline{3}$ 02'12 30.95410 AU	opposition	-943 Aug 16 j 10:26	13° \approx 32'55 -1°10'38
morning rise	-949 Feb 12 j 07:10	29° $\overline{3}$ 35'30	direct	-943 Nov 02 j 05:28	12° \approx 09'55
	-949 Feb 23 j 15:28	0° \approx	evening set	-942 Jan 27 j 10:50	14° \approx 02'46
retrograde	-949 May 14 j 09:10	1° \approx 33'56			
min. Earth dist.	-949 Aug 02 j 09:32	0° \approx 10'25 28.95021 AU	conjunction	-942 Feb 12 j 01:28	14° \approx 37'56 -1°07'55
opposition	-949 Aug 03 j 06:07	0° \approx 09'00 -0°44'33	minimum elong	-942 Feb 12 j 01:28	14° \approx 37'56 1°07'55
	-949 Aug 08 j 17:00	30° \overline{R} $\overline{3}$	max. Earth dist.	-942 Feb 13 j 00:36	14° \approx 40'07 30.89857 AU
direct	-949 Oct 20 j 10:05	28° $\overline{3}$ 46'01		-942 Feb 21 j 19:21	15° \approx
	-949 Dec 27 j 06:13	0° \approx	morning rise	-942 Feb 27 j 19:51	15° \approx 13'27
evening set	-948 Jan 14 j 14:27	0° \approx 38'42	retrograde	-942 May 30 j 07:29	17° \approx 12'27
			opposition	-942 Aug 18 j 23:01	15° \approx 47'17 -1°14'39
conjunction	-948 Jan 30 j 02:53	1° \approx 13'41 -0°43'46	min. Earth dist.	-942 Aug 18 j 01:20	15° \approx 48'48 28.89421 AU
minimum elong	-948 Jan 30 j 02:53	1° \approx 13'41 0°43'46		-942 Sep 18 j 02:58	15° \approx
max. Earth dist.	-948 Jan 31 j 01:19	1° \approx 15'48 30.94576 AU	direct	-942 Nov 04 j 17:29	14° \approx 24'15
morning rise	-948 Feb 14 j 18:37	1° \approx 49'00		-942 Dec 20 j 15:51	15° \approx
retrograde	-948 May 15 j 21:12	3° \approx 47'32	evening set	-941 Jan 29 j 22:31	16° \approx 17'06
opposition	-948 Aug 04 j 18:49	2° \approx 22'34 -0°49'06			
min. Earth dist.	-948 Aug 03 j 20:45	2° \approx 24'05 28.94232 AU	conjunction	-941 Feb 14 j 13:38	16° \approx 52'18 -1°11'37
direct	-948 Oct 21 j 22:08	0° \approx 59'36	minimum elong	-941 Feb 14 j 13:38	16° \approx 52'18 1°11'38
evening set	-947 Jan 16 j 01:33	2° \approx 52'17	max. Earth dist.	-941 Feb 15 j 12:58	16° \approx 54'30 30.88839 AU
			morning rise	-941 Mar 02 j 08:23	17° \approx 27'50
conjunction	-947 Jan 31 j 14:12	3° \approx 27'18 -0°47'59	retrograde	-941 Jun 01 j 21:59	19° \approx 26'52
minimum elong	-947 Jan 31 j 14:11	3° \approx 27'18 0°48'00	opposition	-941 Aug 21 j 11:30	18° \approx 01'38 -1°18'33
max. Earth dist.	-947 Feb 01 j 12:10	3° \approx 29'23 30.93825 AU	min. Earth dist.	-941 Aug 20 j 12:47	18° \approx 03'13 28.88389 AU
morning rise	-947 Feb 16 j 06:32	4° \approx 02'39	direct	-941 Nov 07 j 06:04	16° \approx 38'32
retrograde	-947 May 18 j 10:51	6° \approx 01'17	evening set	-940 Feb 01 j 10:13	18° \approx 31'24
min. Earth dist.	-947 Aug 06 j 09:45	4° \approx 37'48 28.93522 AU			
opposition	-947 Aug 07 j 07:32	4° \approx 36'17 -0°53'34	conjunction	-940 Feb 17 j 01:37	19° \approx 06'37 -1°15'13
direct	-947 Oct 24 j 07:07	3° \approx 13'20	minimum elong	-940 Feb 17 j 01:36	19° \approx 06'37 1°15'13
evening set	-946 Jan 18 j 12:37	5° \approx 06'04	max. Earth dist.	-940 Feb 18 j 00:44	19° \approx 08'48 30.87800 AU
			morning rise	-940 Mar 03 j 20:53	19° \approx 42'11

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Attention, astronomical year style is used: The year -940 in astronomical counting style is the year 941 BCE in historical counting style.

retrograde	-940 Jun 03 j 10:14	21° \approx 41'15		evening set	-933 Feb 16 j 22:45	4° \approx 12'42	
min. Earth dist.	-940 Aug 22 j 02:16	20° \approx 17'28	28.87380 AU				
opposition	-940 Aug 23 j 00:05	20° \approx 15'57	-1°22'20	conjunction	-933 Mar 04 j 17:02	4° \approx 48'06	-1°36'57
direct	-940 Nov 08 j 16:32	18° \approx 52'47		minimum elong	-933 Mar 04 j 17:02	4° \approx 48'06	1°36'58
evening set	-939 Feb 02 j 21:59	20° \approx 45'40		max. Earth dist.	-933 Mar 05 j 18:01	4° \approx 50'27	30.83533 AU
				morning rise	-933 Mar 20 j 15:05	5° \approx 23'51	
conjunction	-939 Feb 18 j 13:56	21° \approx 20'54	-1°18'42	retrograde	-933 Jun 20 j 07:12	7° \approx 23'11	
minimum elong	-939 Feb 18 j 13:56	21° \approx 20'54	1°18'43	opposition	-933 Sep 08 j 13:28	5° \approx 57'47	-1°45'05
max. Earth dist.	-939 Feb 19 j 14:06	21° \approx 23'11	30.86822 AU	min. Earth dist.	-933 Sep 07 j 14:48	5° \approx 59'22	28.83520 AU
morning rise	-939 Mar 06 j 09:30	21° \approx 56'30		direct	-933 Nov 24 j 22:25	4° \approx 34'30	
retrograde	-939 Jun 05 j 22:09	23° \approx 55'35		evening set	-932 Feb 19 j 11:15	6° \approx 27'46	
opposition	-939 Aug 25 j 12:15	22° \approx 30'14	-1°26'00				
min. Earth dist.	-939 Aug 24 j 13:20	22° \approx 31'50	28.86450 AU	conjunction	-932 Mar 06 j 06:02	7° \approx 03'12	-1°39'31
direct	-939 Nov 11 j 04:52	21° \approx 07'01		minimum elong	-932 Mar 06 j 06:01	7° \approx 03'12	1°39'30
evening set	-938 Feb 05 j 09:58	22° \approx 59'56		max. Earth dist.	-932 Mar 07 j 06:51	7° \approx 05'32	30.83272 AU
				morning rise	-932 Mar 22 j 04:26	7° \approx 38'58	
conjunction	-938 Feb 21 j 02:10	23° \approx 35'11	-1°22'04	retrograde	-932 Jun 21 j 22:56	9° \approx 38'19	
minimum elong	-938 Feb 21 j 02:10	23° \approx 35'11	1°22'04	min. Earth dist.	-932 Sep 09 j 02:18	8° \approx 14'34	28.83240 AU
max. Earth dist.	-938 Feb 22 j 01:35	23° \approx 37'24	30.85941 AU	opposition	-932 Sep 10 j 01:33	8° \approx 12'56	-1°47'44
morning rise	-938 Mar 08 j 22:18	24° \approx 10'49		direct	-932 Nov 26 j 11:28	6° \approx 49'38	
retrograde	-938 Jun 08 j 11:07	26° \approx 09'56		evening set	-931 Feb 21 j 00:10	8° \approx 42'58	
min. Earth dist.	-938 Aug 27 j 02:06	24° \approx 46'06	28.85648 AU				
opposition	-938 Aug 28 j 00:37	24° \approx 44'32	-1°29'32	conjunction	-931 Mar 08 j 19:16	9° \approx 18'25	-1°41'55
direct	-938 Nov 13 j 13:57	23° \approx 21'17		minimum elong	-931 Mar 08 j 19:16	9° \approx 18'25	1°41'55
evening set	-937 Feb 07 j 21:46	25° \approx 14'13		max. Earth dist.	-931 Mar 09 j 19:15	9° \approx 20'41	30.82948 AU
				morning rise	-931 Mar 24 j 18:08	9° \approx 54'14	
conjunction	-937 Feb 23 j 14:30	25° \approx 49'31	-1°25'19	retrograde	-931 Jun 24 j 11:39	11° \approx 53'35	
minimum elong	-937 Feb 23 j 14:30	25° \approx 49'31	1°25'19	opposition	-931 Sep 12 j 13:39	10° \approx 28'12	-1°50'14
max. Earth dist.	-937 Feb 24 j 15:22	25° \approx 51'52	30.85197 AU	min. Earth dist.	-931 Sep 11 j 15:58	10° \approx 29'43	28.82886 AU
morning rise	-937 Mar 11 j 10:51	26° \approx 25'09		direct	-931 Nov 28 j 22:27	9° \approx 04'52	
retrograde	-937 Jun 10 j 23:24	28° \approx 24'20		evening set	-930 Feb 23 j 13:03	10° \approx 58'14	
opposition	-937 Aug 30 j 12:49	26° \approx 58'54	-1°32'56				
min. Earth dist.	-937 Aug 29 j 13:36	27° \approx 00'31	28.84978 AU	conjunction	-930 Mar 11 j 08:44	11° \approx 33'43	-1°44'10
direct	-937 Nov 16 j 01:16	25° \approx 35'37		minimum elong	-930 Mar 11 j 08:44	11° \approx 33'43	1°44'10
evening set	-936 Feb 10 j 09:51	27° \approx 28'37		max. Earth dist.	-930 Mar 12 j 08:53	11° \approx 36'00	30.82550 AU
				morning rise	-930 Mar 27 j 07:52	12° \approx 09'33	
conjunction	-936 Feb 26 j 02:52	28° \approx 03'55	-1°28'25	retrograde	-930 Jun 27 j 00:58	14° \approx 08'52	
minimum elong	-936 Feb 26 j 02:52	28° \approx 03'55	1°28'26	min. Earth dist.	-930 Sep 14 j 03:34	12° \approx 45'01	28.82440 AU
max. Earth dist.	-936 Feb 27 j 03:02	28° \approx 06'12	30.84606 AU	opposition	-930 Sep 15 j 01:40	12° \approx 43'27	-1°52'33
morning rise	-936 Mar 12 j 23:47	28° \approx 39'36		direct	-930 Dec 01 j 11:18	11° \approx 20'05	
	-936 Apr 24 j 00:16	0° \approx		evening set	-929 Feb 26 j 01:58	13° \approx 13'28	
retrograde	-936 Jun 12 j 13:41	0° \approx 38'49					
	-936 Aug 02 j 13:44	30° \approx		conjunction	-929 Mar 13 j 21:54	13° \approx 48'59	-1°46'15
min. Earth dist.	-936 Aug 31 j 01:41	29° \approx 15'00	28.84471 AU	minimum elong	-929 Mar 13 j 21:54	13° \approx 48'59	1°46'16
opposition	-936 Sep 01 j 01:03	29° \approx 13'22	-1°36'12	max. Earth dist.	-929 Mar 14 j 20:37	13° \approx 51'07	30.82064 AU
direct	-936 Nov 17 j 11:38	27° \approx 50'04		morning rise	-929 Mar 29 j 21:34	14° \approx 24'49	
evening set	-935 Feb 11 j 21:56	29° \approx 43'08		retrograde	-929 Jun 29 j 14:30	16° \approx 24'07	
	-935 Feb 19 j 11:32	0° \approx		opposition	-929 Sep 17 j 13:47	14° \approx 58'40	-1°54'42
				min. Earth dist.	-929 Sep 16 j 16:45	15° \approx 00'08	28.81937 AU
conjunction	-935 Feb 27 j 15:30	0° \approx 18'28	-1°31'24	direct	-929 Dec 03 j 21:34	13° \approx 35'13	
minimum elong	-935 Feb 27 j 15:30	0° \approx 18'28	1°31'25	evening set	-928 Feb 28 j 14:52	15° \approx 28'38	
max. Earth dist.	-935 Feb 28 j 16:49	0° \approx 20'52	30.84153 AU				
morning rise	-935 Mar 15 j 12:43	0° \approx 54'10		conjunction	-928 Mar 15 j 11:25	16° \approx 04'09	-1°48'11
retrograde	-935 Jun 15 j 02:38	2° \approx 53'25		minimum elong	-928 Mar 15 j 11:25	16° \approx 04'09	1°48'12
opposition	-935 Sep 03 j 13:15	1° \approx 27'59	-1°39'19	max. Earth dist.	-928 Mar 16 j 10:51	16° \approx 06'22	30.81547 AU
min. Earth dist.	-935 Sep 02 j 14:08	1° \approx 29'36	28.84077 AU	morning rise	-928 Mar 31 j 11:19	16° \approx 40'01	
direct	-935 Nov 19 j 23:35	0° \approx 04'42		retrograde	-928 Jul 01 j 02:10	18° \approx 39'15	
evening set	-934 Feb 14 j 10:17	1° \approx 57'49		min. Earth dist.	-928 Sep 18 j 04:30	17° \approx 15'15	28.81419 AU
				opposition	-928 Sep 19 j 01:34	17° \approx 13'46	-1°56'41
conjunction	-934 Mar 02 j 04:11	2° \approx 33'11	-1°34'15	direct	-928 Dec 05 j 09:52	15° \approx 50'14	
minimum elong	-934 Mar 02 j 04:11	2° \approx 33'11	1°34'15	evening set	-927 Mar 02 j 03:58	17° \approx 43'40	
max. Earth dist.	-934 Mar 03 j 04:53	2° \approx 35'31	30.83815 AU				
morning rise	-934 Mar 18 j 01:52	3° \approx 08'55		conjunction	-927 Mar 18 j 00:49	18° \approx 19'13	-1°49'57
retrograde	-934 Jun 17 j 17:30	5° \approx 08'12		minimum elong	-927 Mar 18 j 00:49	18° \approx 19'13	1°49'58
min. Earth dist.	-934 Sep 05 j 01:34	3° \approx 44'27	28.83782 AU	max. Earth dist.	-927 Mar 18 j 22:55	18° \approx 21'18	30.81048 AU
opposition	-934 Sep 06 j 01:15	3° \approx 42'47	-1°42'17	morning rise	-927 Apr 03 j 01:17	18° \approx 55'06	
direct	-934 Nov 22 j 10:17	2° \approx 19'30		retrograde	-927 Jul 03 j 15:10	20° \approx 54'16	

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Attention, astronomical year style is used: The year -927 in astronomical counting style is the year 928 BCE in historical counting style.

opposition	-927 Sep 21 j 13:24	19° H 28'45	-1°58'29	conjunction	-920 Apr 03 j 00:36	4° Y 04'39	-1°57'29
min. Earth dist.	-927 Sep 20 j 16:45	19° H 30'12	28.80956 AU	minimum elong	-920 Apr 03 j 00:36	4° Y 04'39	1°57'30
direct	-927 Dec 07 j 20:30	18° H 05'08		max. Earth dist.	-920 Apr 03 j 20:44	4° Y 06'33	30.80658 AU
evening set	-926 Mar 04 j 16:59	19° H 58'37		morning rise	-920 Apr 19 j 03:34	4° Y 40'40	
				retrograde	-920 Jul 19 j 14:38	6° Y 39'33	
conjunction	-926 Mar 20 j 14:22	20° H 34'11	-1°51'33	opposition	-920 Oct 06 j 22:23	5° Y 14'14	-2°05'52
minimum elong	-926 Mar 20 j 14:21	20° H 34'11	1°51'33	min. Earth dist.	-920 Oct 06 j 04:26	5° Y 15'31	28.80926 AU
max. Earth dist.	-926 Mar 21 j 13:15	20° H 36'20	30.80611 AU	direct	-920 Dec 23 j 05:58	3° Y 50'30	
morning rise	-926 Apr 05 j 15:02	21° H 10'04		evening set	-919 Mar 20 j 14:28	5° Y 44'30	
retrograde	-926 Jul 06 j 02:45	23° H 09'11					
min. Earth dist.	-926 Sep 23 j 04:53	21° H 45'04	28.80573 AU	conjunction	-919 Apr 05 j 14:56	6° Y 20'16	-1°57'51
opposition	-926 Sep 24 j 01:02	21° H 43'39	-2°00'06	minimum elong	-919 Apr 05 j 14:56	6° Y 20'16	1°57'51
direct	-926 Dec 10 j 08:08	20° H 19'58		max. Earth dist.	-919 Apr 06 j 11:16	6° Y 22'10	30.80884 AU
evening set	-925 Mar 07 j 06:05	22° H 13'30		morning rise	-919 Apr 21 j 18:04	6° Y 56'18	
				retrograde	-919 Jul 22 j 02:40	8° Y 55'07	
conjunction	-925 Mar 23 j 03:49	22° H 49'05	-1°52'59	opposition	-919 Oct 09 j 09:52	7° Y 29'53	-2°06'09
minimum elong	-925 Mar 23 j 03:49	22° H 49'05	1°52'59	min. Earth dist.	-919 Oct 08 j 16:17	7° Y 31'08	28.81109 AU
max. Earth dist.	-925 Mar 24 j 01:47	22° H 51'09	30.80299 AU	direct	-919 Dec 25 j 18:28	6° Y 06'08	
morning rise	-925 Apr 08 j 04:57	23° H 24'59		evening set	-918 Mar 23 j 04:24	8° Y 00'12	
retrograde	-925 Jul 08 j 17:06	25° H 24'03					
opposition	-925 Sep 26 j 12:40	23° H 58'30	-2°01'32	conjunction	-918 Apr 08 j 05:07	8° Y 35'59	-1°58'02
min. Earth dist.	-925 Sep 25 j 16:02	23° H 59'57	28.80335 AU	minimum elong	-918 Apr 08 j 05:06	8° Y 35'59	1°58'02
direct	-925 Dec 12 j 19:00	22° H 34'47		max. Earth dist.	-918 Apr 08 j 23:22	8° Y 37'42	30.81026 AU
evening set	-924 Mar 08 j 19:08	24° H 28'21		morning rise	-918 Apr 24 j 08:43	9° Y 12'03	
				retrograde	-918 Jul 24 j 15:41	11° Y 10'47	
conjunction	-924 Mar 24 j 17:20	25° H 03'58	-1°54'14	opposition	-918 Oct 11 j 21:22	9° Y 45'35	-2°06'14
minimum elong	-924 Mar 24 j 17:20	25° H 03'58	1°54'14	min. Earth dist.	-918 Oct 11 j 04:46	9° Y 46'46	28.81207 AU
max. Earth dist.	-924 Mar 25 j 15:34	25° H 06'03	30.80120 AU	direct	-918 Dec 28 j 05:04	8° Y 21'48	
morning rise	-924 Apr 09 j 18:48	25° H 39'54		evening set	-917 Mar 25 j 18:13	10° Y 15'56	
retrograde	-924 Jul 10 j 05:52	27° H 38'55					
min. Earth dist.	-924 Sep 27 j 04:42	26° H 14'46	28.80233 AU	conjunction	-917 Apr 10 j 19:29	10° Y 51'44	-1°58'02
opposition	-924 Sep 28 j 00:21	26° H 13'23	-2°02'47	minimum elong	-917 Apr 10 j 19:30	10° Y 51'44	1°58'01
direct	-924 Dec 14 j 07:11	24° H 49'38		max. Earth dist.	-917 Apr 11 j 13:53	10° Y 53'28	30.81071 AU
evening set	-923 Mar 11 j 08:23	26° H 43'17		morning rise	-917 Apr 26 j 23:16	11° Y 27'48	
				retrograde	-917 Jul 27 j 03:21	13° Y 26'27	
conjunction	-923 Mar 27 j 07:04	27° H 18'55	-1°55'19	opposition	-917 Oct 14 j 08:46	12° Y 01'16	-2°06'09
minimum elong	-923 Mar 27 j 07:04	27° H 18'55	1°55'19	min. Earth dist.	-917 Oct 13 j 17:16	12° Y 02'22	28.81206 AU
max. Earth dist.	-923 Mar 28 j 05:00	27° H 20'59	30.80099 AU	direct	-917 Dec 30 j 16:26	10° Y 37'25	
morning rise	-923 Apr 12 j 08:54	27° H 54'52		evening set	-916 Mar 27 j 08:03	12° Y 31'36	
retrograde	-923 Jul 12 j 20:50	29° H 53'51					
opposition	-923 Sep 30 j 11:44	28° H 28'21	-2°03'50	conjunction	-916 Apr 12 j 09:42	13° Y 07'25	-1°57'51
min. Earth dist.	-923 Sep 29 j 15:24	28° H 29'47	28.80278 AU	minimum elong	-916 Apr 12 j 09:42	13° Y 07'25	1°57'51
direct	-923 Dec 16 j 20:03	27° H 04'35		max. Earth dist.	-916 Apr 13 j 02:19	13° Y 08'59	30.81050 AU
evening set	-922 Mar 13 j 21:48	28° H 58'19		morning rise	-916 Apr 28 j 13:58	13° Y 43'30	
				retrograde	-916 Jul 28 j 16:48	15° Y 42'02	
conjunction	-922 Mar 29 j 20:49	29° H 33'59	-1°56'13	opposition	-916 Oct 15 j 20:03	14° Y 16'52	-2°05'51
minimum elong	-922 Mar 29 j 20:49	29° H 33'59	1°56'14	min. Earth dist.	-916 Oct 15 j 04:49	14° Y 17'56	28.81155 AU
max. Earth dist.	-922 Mar 30 j 18:12	29° H 36'00	30.80201 AU	direct	-915 Jan 01 j 03:32	12° Y 52'55	
	-922 Apr 10 j 10:58	0° Y		evening set	-915 Mar 29 j 22:01	14° Y 47'08	
morning rise	-922 Apr 14 j 23:04	0° Y 09'58					
retrograde	-922 Jul 15 j 09:49	2° Y 08'54		conjunction	-915 Apr 15 j 00:08	15° Y 22'59	-1°57'30
opposition	-922 Oct 02 j 23:23	0° Y 43'28	-2°04'42	minimum elong	-915 Apr 15 j 00:08	15° Y 22'59	1°57'29
min. Earth dist.	-922 Oct 02 j 04:26	0° Y 44'48	28.80441 AU	max. Earth dist.	-915 Apr 15 j 16:26	15° Y 24'31	30.80980 AU
	-922 Oct 29 j 20:59	30° H		morning rise	-915 May 01 j 04:37	15° Y 59'05	
direct	-922 Dec 19 j 06:54	29° H 19'42		retrograde	-915 Jul 31 j 03:59	17° Y 57'29	
	-921 Feb 06 j 08:41	0° Y		opposition	-915 Oct 18 j 07:13	16° Y 32'18	-2°05'23
evening set	-921 Mar 16 j 11:01	1° Y 13'31		min. Earth dist.	-915 Oct 17 j 17:30	16° Y 33'16	28.81087 AU
				direct	-914 Jan 03 j 16:16	15° Y 08'17	
conjunction	-921 Apr 01 j 10:37	1° Y 49'13	-1°56'57	evening set	-914 Apr 01 j 11:55	17° Y 02'32	
minimum elong	-921 Apr 01 j 10:37	1° Y 49'13	1°56'57				
max. Earth dist.	-921 Apr 02 j 08:18	1° Y 51'15	30.80412 AU	conjunction	-914 Apr 17 j 14:27	17° Y 38'24	-1°56'57
morning rise	-921 Apr 17 j 13:06	2° Y 25'13		minimum elong	-914 Apr 17 j 14:27	17° Y 38'24	1°56'57
retrograde	-921 Jul 18 j 00:11	4° Y 24'07		max. Earth dist.	-914 Apr 18 j 05:49	17° Y 39'50	30.80940 AU
opposition	-921 Oct 05 j 10:52	2° Y 58'45	-2°05'23	morning rise	-914 May 03 j 19:15	18° Y 14'30	
min. Earth dist.	-921 Oct 04 j 15:30	3° Y 00'07	28.80674 AU	retrograde	-914 Aug 02 j 17:39	20° Y 12'46	
direct	-921 Dec 21 j 19:43	1° Y 35'01		opposition	-914 Oct 20 j 18:17	18° Y 47'35	-2°04'42
evening set	-920 Mar 18 j 00:45	3° Y 28'55		min. Earth dist.	-914 Oct 20 j 04:12	18° Y 48'35	28.81071 AU

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Attention, astronomical year style is used: The year -913 in astronomical counting style is the year 914 BCE in historical counting style.

direct	-913 Jan 06 j 05:22	17° Υ 23'28		minimum elong	-907 May 03 j 18:57	3° B 23'51	1°48'14
evening set	-913 Apr 04 j 01:42	19° Υ 17'46		max. Earth dist.	-907 May 04 j 05:11	3° B 24'48	30.83615 AU
				morning rise	-907 May 20 j 01:36	4° B 00'01	
conjunction	-913 Apr 20 j 04:34	19° Υ 53'39	-1°56'15	retrograde	-907 Aug 18 j 11:19	5° B 57'24	
minimum elong	-913 Apr 20 j 04:34	19° Υ 53'39	1°56'14	opposition	-907 Nov 04 j 22:42	4° B 32'36	-1°54'45
max. Earth dist.	-913 Apr 20 j 19:16	19° Υ 55'01	30.80959 AU	min. Earth dist.	-907 Nov 04 j 13:22	4° B 33'16	28.84036 AU
morning rise	-913 May 06 j 09:42	20° Υ 29'45		direct	-906 Jan 21 j 15:58	3° B 08'15	
retrograde	-913 Aug 05 j 05:52	22° Υ 27'53		evening set	-906 Apr 20 j 04:02	5° B 03'00	
opposition	-913 Oct 23 j 05:27	21° Υ 02'42	-2°03'51				
min. Earth dist.	-913 Oct 22 j 16:55	21° Υ 03'36	28.81146 AU	conjunction	-906 May 06 j 09:37	5° B 39'02	-1°46'20
direct	-912 Jan 08 j 16:43	19° Υ 38'31		minimum elong	-906 May 06 j 09:37	5° B 39'02	1°46'20
evening set	-912 Apr 05 j 15:33	21° Υ 32'51		max. Earth dist.	-906 May 06 j 19:23	5° B 39'56	30.84217 AU
				morning rise	-906 May 22 j 16:20	6° B 15'12	
conjunction	-912 Apr 21 j 18:57	22° Υ 08'46	-1°55'21	retrograde	-906 Aug 20 j 22:06	8° B 12'27	
minimum elong	-912 Apr 21 j 18:57	22° Υ 08'46	1°55'21	opposition	-906 Nov 07 j 09:42	6° B 47'44	-1°52'36
max. Earth dist.	-912 Apr 22 j 09:37	22° Υ 10'08	30.81100 AU	min. Earth dist.	-906 Nov 07 j 02:06	6° B 48'16	28.84600 AU
morning rise	-912 May 08 j 00:17	22° Υ 44'52		direct	-905 Jan 24 j 03:49	5° B 23'21	
retrograde	-912 Aug 06 j 19:53	24° Υ 42'52		evening set	-905 Apr 22 j 18:11	7° B 18'09	
opposition	-912 Oct 24 j 16:17	23° Υ 17'42	-2°02'48				
min. Earth dist.	-912 Oct 24 j 03:23	23° Υ 18'37	28.81343 AU	conjunction	-905 May 09 j 00:06	7° B 54'12	-1°44'15
direct	-911 Jan 10 j 06:33	21° Υ 53'28		minimum elong	-905 May 09 j 00:06	7° B 54'12	1°44'14
evening set	-911 Apr 08 j 05:36	23° Υ 47'51		max. Earth dist.	-905 May 09 j 08:17	7° B 54'58	30.84752 AU
				morning rise	-905 May 25 j 07:06	8° B 30'23	
conjunction	-911 Apr 24 j 09:16	24° Υ 23'46	-1°54'17	retrograde	-905 Aug 23 j 11:29	10° B 27'30	
minimum elong	-911 Apr 24 j 09:16	24° Υ 23'46	1°54'16	opposition	-905 Nov 09 j 20:30	9° B 02'50	-1°50'17
max. Earth dist.	-911 Apr 24 j 22:28	24° Υ 25'00	30.81367 AU	min. Earth dist.	-905 Nov 09 j 12:59	9° B 03'22	28.85082 AU
morning rise	-911 May 10 j 14:59	24° Υ 59'54		direct	-904 Jan 26 j 16:28	7° B 38'23	
retrograde	-911 Aug 09 j 09:19	26° Υ 57'45		evening set	-904 Apr 24 j 08:33	9° B 33'15	
opposition	-911 Oct 27 j 03:20	25° Υ 32'38	-2°01'34				
min. Earth dist.	-911 Oct 26 j 15:36	25° Υ 33'28	28.81688 AU	conjunction	-904 May 10 j 14:45	10° B 09'19	-1°42'00
direct	-910 Jan 12 j 18:05	24° Υ 08'20		minimum elong	-904 May 10 j 14:46	10° B 09'19	1°42'00
evening set	-910 Apr 10 j 19:24	26° Υ 02'47		max. Earth dist.	-904 May 10 j 21:45	10° B 09'58	30.85194 AU
				morning rise	-904 May 26 j 21:55	10° B 45'30	
conjunction	-910 Apr 26 j 23:36	26° Υ 38'44	-1°53'02	retrograde	-904 Aug 24 j 22:57	12° B 42'28	
minimum elong	-910 Apr 26 j 23:36	26° Υ 38'44	1°53'03	opposition	-904 Nov 11 j 07:16	11° B 17'50	-1°47'48
max. Earth dist.	-910 Apr 27 j 13:15	26° Υ 40'00	30.81784 AU	min. Earth dist.	-904 Nov 11 j 01:49	11° B 18'13	28.85492 AU
morning rise	-910 May 13 j 05:24	27° Υ 14'52		direct	-903 Jan 28 j 03:48	9° B 53'20	
retrograde	-910 Aug 11 j 21:11	29° Υ 12'36		evening set	-903 Apr 26 j 22:49	11° B 48'15	
opposition	-910 Oct 29 j 14:12	27° Υ 47'32	-2°00'08				
min. Earth dist.	-910 Oct 29 j 02:31	27° Υ 48'22	28.82161 AU	conjunction	-903 May 13 j 05:25	12° B 24'19	-1°39'37
direct	-909 Jan 15 j 06:55	26° Υ 23'14		minimum elong	-903 May 13 j 05:26	12° B 24'19	1°39'36
evening set	-909 Apr 13 j 09:28	28° Υ 17'44		max. Earth dist.	-903 May 13 j 11:41	12° B 24'54	30.85592 AU
				morning rise	-903 May 29 j 12:42	13° B 00'30	
conjunction	-909 Apr 29 j 13:52	28° Υ 53'42	-1°51'37	retrograde	-903 Aug 27 j 12:16	14° B 57'17	
minimum elong	-909 Apr 29 j 13:53	28° Υ 53'42	1°51'37	opposition	-903 Nov 13 j 17:54	13° B 32'42	-1°45'10
max. Earth dist.	-909 Apr 30 j 01:46	28° Υ 54'49	30.82330 AU	min. Earth dist.	-903 Nov 13 j 12:30	13° B 33'05	28.85864 AU
morning rise	-909 May 15 j 20:06	29° Υ 29'51		direct	-902 Jan 30 j 18:08	12° B 08'08	
	-909 May 30 j 02:17	0° B		evening set	-902 Apr 29 j 12:59	14° B 03'05	
retrograde	-909 Aug 14 j 10:41	1° B 27'28					
opposition	-909 Nov 01 j 01:04	0° B 02'29	-1°58'31	conjunction	-902 May 15 j 19:43	14° B 39'10	-1°37'04
min. Earth dist.	-909 Oct 31 j 14:09	0° B 03'15	28.82760 AU	minimum elong	-902 May 15 j 19:43	14° B 39'10	1°37'04
	-909 Nov 02 j 11:54	30° B		max. Earth dist.	-902 May 16 j 00:20	14° B 39'36	30.85967 AU
direct	-908 Jan 17 j 17:31	28° Υ 38'09			-902 May 25 j 03:46	15° B	
	-908 Mar 30 j 09:26	0° B		morning rise	-902 Jun 01 j 03:13	15° B 15'21	
evening set	-908 Apr 14 j 23:27	0° B 32'44		retrograde	-902 Aug 30 j 00:42	17° B 11'58	
				opposition	-902 Nov 16 j 04:33	15° B 47'24	-1°42'22
conjunction	-908 May 01 j 04:24	1° B 08'44	-1°50'02	min. Earth dist.	-902 Nov 16 j 00:38	15° B 47'41	28.86257 AU
minimum elong	-908 May 01 j 04:24	1° B 08'44	1°50'02		-902 Dec 15 j 16:03	15° B	
max. Earth dist.	-908 May 01 j 16:39	1° B 09'53	30.82964 AU	direct	-901 Feb 02 j 06:15	14° B 22'46	
morning rise	-908 May 17 j 10:43	1° B 44'54			-901 Mar 21 j 23:19	15° B	
retrograde	-908 Aug 15 j 22:23	3° B 42'23		evening set	-901 May 02 j 03:00	16° B 17'45	
opposition	-908 Nov 02 j 11:57	2° B 17'30	-1°56'43				
min. Earth dist.	-908 Nov 02 j 02:11	2° B 18'12	28.83400 AU	conjunction	-901 May 18 j 10:10	16° B 53'51	-1°34'23
direct	-907 Jan 19 j 04:54	0° B 53'10		minimum elong	-901 May 18 j 10:10	16° B 53'51	1°34'22
evening set	-907 Apr 17 j 13:46	2° B 47'50		max. Earth dist.	-901 May 18 j 14:51	16° B 54'18	30.86391 AU
				morning rise	-901 Jun 03 j 17:39	17° B 30'02	
conjunction	-907 May 03 j 18:56	3° B 23'51	-1°48'16	retrograde	-901 Sep 01 j 12:24	19° B 26'28	

Attention, astronomical year style is used: The year -901 in astronomical counting style is the year 902 BCE in historical counting style.

opposition	-901 Nov 18 j 14:58	18° 8 01'57	-1°39'25
min. Earth dist.	-901 Nov 18 j 11:20	18° 8 02'12	28.86707 AU
direct	-900 Feb 04 j 19:31	16° 8 37'15	
evening set	-900 May 03 j 17:10	18° 8 32'16	
conjunction	-900 May 20 j 00:26	19° 8 08'23	-1°31'34
minimum elong	-900 May 20 j 00:26	19° 8 08'23	1°31'33
max. Earth dist.	-900 May 20 j 03:12	19° 8 08'39	30.86897 AU
morning rise	-900 Jun 05 j 08:12	19° 8 44'33	
retrograde	-900 Sep 03 j 01:48	21° 8 40'49	
opposition	-900 Nov 20 j 01:26	20° 8 16'21	-1°36'20
min. Earth dist.	-900 Nov 19 j 22:33	20° 8 16'33	28.87272 AU
direct	-899 Feb 06 j 07:04	18° 8 51'35	
evening set	-899 May 06 j 07:10	20° 8 46'39	
conjunction	-899 May 22 j 14:49	21° 8 22'47	-1°28'36
minimum elong	-899 May 22 j 14:49	21° 8 22'47	1°28'35
max. Earth dist.	-899 May 22 j 18:01	21° 8 23'05	30.87522 AU
morning rise	-899 Jun 07 j 22:27	21° 8 58'57	
retrograde	-899 Sep 05 j 12:41	23° 8 55'03	
opposition	-899 Nov 22 j 11:51	22° 8 30'38	-1°33'06
min. Earth dist.	-899 Nov 22 j 09:50	22° 8 30'47	28.87960 AU