

Planetary Phenomena of Pluto from -2400 through -1900 (UT), Astrodienst AG 14-Nov-2015 16:07, page 1

Attention, astronomical year style is used: The year -2400 in astronomical counting style is the year 2401 BCE in historical counting style.

conjunction	-2400 Jan 11 j 11:29	2°♁19'27	-11°-12'-46	minimum elong	-2392 Jan 21 j 21:05	12°♁46'16	13°18'40
minimum elong	-2400 Jan 11 j 11:16	2°♁19'26	11°12'51	max. Earth dist.	-2392 Jan 25 j 01:47	12°♁51'26	43.14223 AU
max. Earth dist.	-2400 Jan 14 j 16:41	2°♁24'53	41.29635 AU	retrograde	-2392 May 04 j 13:54	14°♁32'27	
retrograde	-2400 Apr 24 j 05:57	4°♁10'09		min. Earth dist.	-2392 Jul 24 j 04:23	13°♁29'35	41.31000 AU
min. Earth dist.	-2400 Jul 13 j 09:57	3°♁05'45	39.45603 AU	opposition	-2392 Jul 27 j 06:44	13°♁25'41	-14°-4'-8
opposition	-2400 Jul 16 j 15:30	3°♁01'35	-11°-56'-12	direct	-2392 Oct 15 j 22:33	12°♁20'39	
direct	-2400 Oct 05 j 05:11	1°♁54'40					
conjunction	-2399 Jan 12 j 01:43	3°♁40'26	-11°-30'-27	conjunction	-2391 Jan 22 j 09:38	14°♁01'53	-13°-31'-58
minimum elong	-2399 Jan 12 j 01:31	3°♁40'25	11°30'32	minimum elong	-2391 Jan 22 j 09:28	14°♁01'53	13°32'03
max. Earth dist.	-2399 Jan 15 j 07:46	3°♁45'53	41.53276 AU	max. Earth dist.	-2391 Jan 25 j 13:46	14°♁07'00	43.36160 AU
retrograde	-2399 Apr 25 j 18:08	5°♁30'29		retrograde	-2391 May 06 j 02:44	15°♁47'34	
min. Earth dist.	-2399 Jul 15 j 02:11	4°♁26'13	39.69376 AU	min. Earth dist.	-2391 Jul 25 j 17:20	14°♁44'53	41.52911 AU
opposition	-2399 Jul 18 j 06:34	4°♁22'07	-12°-14'-15	opposition	-2391 Jul 28 j 19:20	14°♁41'02	-14°-17'-40
direct	-2399 Oct 06 j 21:53	3°♁15'25		direct	-2391 Oct 17 j 10:52	13°♁36'11	
conjunction	-2398 Jan 13 j 15:28	5°♁00'31	-11°-47'-34	conjunction	-2390 Jan 23 j 21:29	15°♁16'56	-13°-44'-52
minimum elong	-2398 Jan 13 j 15:15	5°♁00'30	11°47'38	minimum elong	-2390 Jan 23 j 21:19	15°♁16'55	13°44'55
max. Earth dist.	-2398 Jan 16 j 21:08	5°♁05'56	41.76763 AU	max. Earth dist.	-2390 Jan 26 j 23:59	15°♁21'54	43.57670 AU
retrograde	-2398 Apr 27 j 07:05	6°♁49'58		retrograde	-2390 May 07 j 17:34	17°♁02'06	
min. Earth dist.	-2398 Jul 16 j 15:52	5°♁45'56	39.93001 AU	min. Earth dist.	-2390 Jul 27 j 06:29	15°♁59'34	41.74399 AU
opposition	-2398 Jul 19 j 21:12	5°♁41'48	-12°-31'-41	opposition	-2390 Jul 30 j 07:51	15°♁55'46	-14°-30'-42
direct	-2398 Oct 08 j 13:25	4°♁35'19		direct	-2390 Oct 18 j 20:31	14°♁51'07	
conjunction	-2397 Jan 15 j 05:00	6°♁19'48	-12°-4'-6	conjunction	-2389 Jan 25 j 09:23	16°♁31'22	-13°-57'-17
minimum elong	-2397 Jan 15 j 04:49	6°♁19'47	12°04'11	minimum elong	-2389 Jan 25 j 09:14	16°♁31'21	13°57'22
max. Earth dist.	-2397 Jan 18 j 10:35	6°♁25'10	42.00110 AU	max. Earth dist.	-2389 Jan 28 j 12:12	16°♁36'20	43.78761 AU
retrograde	-2397 Apr 28 j 22:35	8°♁08'38		retrograde	-2389 May 09 j 04:29	18°♁16'01	
min. Earth dist.	-2397 Jul 18 j 06:51	7°♁04'46	40.16505 AU	min. Earth dist.	-2389 Jul 28 j 20:04	17°♁13'34	41.95463 AU
opposition	-2397 Jul 21 j 11:34	7°♁00'41	-12°-48'-31	opposition	-2389 Jul 31 j 19:52	17°♁09'51	-14°-43'-15
direct	-2397 Oct 10 j 02:12	5°♁54'26		direct	-2389 Oct 20 j 09:26	16°♁05'23	
conjunction	-2396 Jan 16 j 18:25	7°♁38'20	-12°-20'-5	conjunction	-2388 Jan 26 j 20:54	17°♁45'07	-14°-9'-14
minimum elong	-2396 Jan 16 j 18:13	7°♁38'19	12°20'09	minimum elong	-2388 Jan 26 j 20:45	17°♁45'07	14°09'18
max. Earth dist.	-2396 Jan 20 j 00:34	7°♁43'42	42.23338 AU	max. Earth dist.	-2388 Jan 29 j 22:07	17°♁49'58	43.99465 AU
retrograde	-2396 Apr 29 j 12:22	9°♁26'35		retrograde	-2388 May 09 j 13:37	19°♁29'16	
min. Earth dist.	-2396 Jul 18 j 20:59	8°♁22'56	40.39854 AU	min. Earth dist.	-2388 Jul 29 j 07:29	18°♁27'00	42.16168 AU
opposition	-2396 Jul 22 j 01:32	8°♁18'52	-13°-4'-46	opposition	-2388 Aug 01 j 07:36	18°♁23'16	-14°-55'-19
direct	-2396 Oct 10 j 15:30	7°♁12'52		direct	-2388 Oct 20 j 22:47	17°♁18'57	
conjunction	-2395 Jan 17 j 07:21	8°♁56'11	-12°-35'-30	conjunction	-2387 Jan 27 j 08:04	18°♁58'12	-14°-20'-43
minimum elong	-2395 Jan 17 j 07:10	8°♁56'10	12°35'35	minimum elong	-2387 Jan 27 j 07:55	18°♁58'11	14°20'49
max. Earth dist.	-2395 Jan 20 j 12:29	9°♁01'27	42.46403 AU	max. Earth dist.	-2387 Jan 30 j 09:23	19°♁03'02	44.19828 AU
retrograde	-2395 May 01 j 02:31	10°♁43'53		retrograde	-2387 May 10 j 22:30	20°♁41'51	
min. Earth dist.	-2395 Jul 20 j 10:22	9°♁40'29	40.63038 AU	min. Earth dist.	-2387 Jul 30 j 20:32	19°♁39'40	42.36568 AU
opposition	-2395 Jul 23 j 15:14	9°♁36'25	-13°-20'-26	opposition	-2387 Aug 02 j 19:08	19°♁36'01	-15°-6'-53
direct	-2395 Oct 12 j 04:07	8°♁30'39		direct	-2387 Oct 22 j 12:57	18°♁31'52	
conjunction	-2394 Jan 18 j 20:12	10°♁13'26	-12°-50'-24	conjunction	-2386 Jan 28 j 19:07	20°♁10'37	-14°-31'-44
minimum elong	-2394 Jan 18 j 20:01	10°♁13'25	12°50'28	minimum elong	-2386 Jan 28 j 18:59	20°♁10'37	14°31'48
max. Earth dist.	-2394 Jan 22 j 02:11	10°♁18'44	42.69280 AU	max. Earth dist.	-2386 Jan 31 j 20:00	20°♁15'24	44.39938 AU
retrograde	-2394 May 02 j 12:54	12°♁00'37		retrograde	-2386 May 12 j 09:20	21°♁53'48	
min. Earth dist.	-2394 Jul 22 j 01:07	10°♁57'22	40.85997 AU	min. Earth dist.	-2386 Aug 01 j 07:21	20°♁51'47	42.56721 AU
opposition	-2394 Jul 25 j 04:44	10°♁53'23	-13°-35'-32	opposition	-2386 Aug 04 j 06:16	20°♁48'07	-15°-17'-56
direct	-2394 Oct 13 j 19:49	9°♁47'52		direct	-2386 Oct 24 j 00:45	19°♁44'08	
conjunction	-2393 Jan 20 j 08:47	11°♁30'07	-13°-4'-45	conjunction	-2385 Jan 30 j 05:47	21°♁22'25	-14°-42'-16
minimum elong	-2393 Jan 20 j 08:37	11°♁30'06	13°04'50	minimum elong	-2385 Jan 30 j 05:38	21°♁22'25	14°42'21
max. Earth dist.	-2393 Jan 23 j 13:36	11°♁35'20	42.91916 AU	max. Earth dist.	-2385 Feb 02 j 05:48	21°♁27'07	44.59818 AU
retrograde	-2393 May 04 j 00:50	13°♁16'47		retrograde	-2385 May 13 j 21:54	23°♁05'08	
min. Earth dist.	-2393 Jul 23 j 13:52	12°♁13'48	41.08674 AU	min. Earth dist.	-2385 Aug 02 j 19:06	22°♁03'14	42.76666 AU
opposition	-2393 Jul 26 j 17:53	12°♁09'48	-13°-50'-6	opposition	-2385 Aug 05 j 17:19	21°♁59'38	-15°-28'-30
direct	-2393 Oct 15 j 09:47	11°♁04'31		direct	-2385 Oct 25 j 10:01	20°♁55'49	
conjunction	-2392 Jan 21 j 21:16	12°♁46'16	-13°-18'-36	conjunction	-2384 Jan 31 j 16:31	22°♁33'40	-14°-52'-20
				minimum elong	-2384 Jan 31 j 16:24	22°♁33'39	14°52'23

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Attention, astronomical year style is used: The year -2384 in astronomical counting style is the year 2385 BCE in historical counting style.

max. Earth dist.	-2384 Feb 03 j 17:07	22°☾38'22	44.79498 AU	conjunction	-2376 Feb 09 j 23:31	1°☾46'56	-15°-57'-16
retrograde	-2384 May 14 j 08:37	24°☾15'55		minimum elong	-2376 Feb 09 j 23:28	1°☾46'56	15°57'21
min. Earth dist.	-2384 Aug 03 j 06:23	23°☾14'09	42.96389 AU	max. Earth dist.	-2376 Feb 12 j 17:04	1°☾51'03	46.25790 AU
opposition	-2384 Aug 06 j 03:52	23°☾10'35	-15°-38'-35	retrograde	-2376 May 23 j 11:15	3°☾25'57	
direct	-2384 Oct 25 j 20:11	22°☾06'56		min. Earth dist.	-2376 Aug 12 j 19:11	2°☾25'10	44.42201 AU
				opposition	-2376 Aug 15 j 10:18	2°☾21'59	-16°-43'-15
conjunction	-2383 Feb 01 j 02:49	23°☾44'22	-15°-1'-55	direct	-2376 Nov 04 j 06:05	1°☾19'37	
minimum elong	-2383 Feb 01 j 02:42	23°☾44'22	15°01'59				
max. Earth dist.	-2383 Feb 04 j 01:55	23°☾48'58	44.98969 AU	conjunction	-2375 Feb 10 j 08:34	2°☾53'59	-16°-3'-37
retrograde	-2383 May 15 j 19:49	25°☾26'11		minimum elong	-2375 Feb 10 j 08:31	2°☾53'59	16°03'41
min. Earth dist.	-2383 Aug 04 j 16:33	24°☾24'36	43.15896 AU	max. Earth dist.	-2375 Feb 13 j 01:11	2°☾58'02	46.42217 AU
opposition	-2383 Aug 07 j 14:22	24°☾21'03	-15°-48'-10	retrograde	-2375 May 24 j 20:35	4°☾32'38	
direct	-2383 Oct 27 j 05:34	23°☾17'35		min. Earth dist.	-2375 Aug 14 j 05:43	3°☾31'53	44.58570 AU
				opposition	-2375 Aug 16 j 19:17	3°☾28'48	-16°-49'-30
conjunction	-2382 Feb 02 j 12:55	24°☾54'36	-15°-11'-4	direct	-2375 Nov 05 j 15:25	2°☾26'33	
minimum elong	-2382 Feb 02 j 12:49	24°☾54'36	15°11'08				
max. Earth dist.	-2382 Feb 05 j 12:25	24°☾59'12	45.18202 AU	conjunction	-2374 Feb 11 j 17:27	4°☾00'33	-16°-9'-35
retrograde	-2382 May 17 j 03:55	26°☾36'01		minimum elong	-2374 Feb 11 j 17:24	4°☾00'33	16°09'40
min. Earth dist.	-2382 Aug 06 j 04:38	25°☾34'32	43.35139 AU	max. Earth dist.	-2374 Feb 14 j 10:12	4°☾04'35	46.58326 AU
opposition	-2382 Aug 09 j 00:46	25°☾31'04	-15°-57'-18	retrograde	-2374 May 26 j 05:47	5°☾38'50	
direct	-2382 Oct 28 j 17:18	24°☾27'47		min. Earth dist.	-2374 Aug 15 j 14:50	4°☾38'11	44.74623 AU
				opposition	-2374 Aug 18 j 03:57	4°☾35'08	-16°-55'-22
conjunction	-2381 Feb 03 j 23:04	26°☾04'24	-15°-19'-46	direct	-2374 Nov 07 j 00:05	3°☾33'00	
minimum elong	-2381 Feb 03 j 22:57	26°☾04'24	15°19'50				
max. Earth dist.	-2381 Feb 06 j 21:42	26°☾08'56	45.37162 AU	conjunction	-2373 Feb 13 j 02:11	5°☾06'41	-16°-15'-9
retrograde	-2381 May 18 j 12:07	27°☾45'24		minimum elong	-2373 Feb 13 j 02:09	5°☾06'41	16°15'12
min. Earth dist.	-2381 Aug 07 j 14:29	26°☾44'07	43.54064 AU	max. Earth dist.	-2373 Feb 15 j 17:12	5°☾10'36	46.74150 AU
opposition	-2381 Aug 10 j 10:42	26°☾40'39	-16°-5'-59	retrograde	-2373 May 27 j 17:05	6°☾44'36	
direct	-2381 Oct 30 j 05:24	25°☾37'33		min. Earth dist.	-2373 Aug 16 j 23:33	5°☾44'05	44.90415 AU
				opposition	-2373 Aug 19 j 12:22	5°☾41'03	-17°00'-49
conjunction	-2380 Feb 05 j 09:01	27°☾13'47	-15°-28'-3	direct	-2373 Nov 08 j 05:33	4°☾39'04	
minimum elong	-2380 Feb 05 j 08:56	27°☾13'47	15°28'07				
max. Earth dist.	-2380 Feb 08 j 06:28	27°☾18'14	45.55765 AU	conjunction	-2372 Feb 14 j 10:54	6°☾12'26	-16°-20'-20
retrograde	-2380 May 19 j 00:07	28°☾54'24		minimum elong	-2372 Feb 14 j 10:51	6°☾12'26	16°20'24
min. Earth dist.	-2380 Aug 08 j 01:58	27°☾53'13	43.72610 AU	max. Earth dist.	-2372 Feb 17 j 02:15	6°☾16'21	46.89716 AU
opposition	-2380 Aug 10 j 20:41	27°☾49'50	-16°-14'-14	retrograde	-2372 May 28 j 00:45	7°☾50'01	
direct	-2380 Oct 30 j 14:18	26°☾46'54		min. Earth dist.	-2372 Aug 17 j 09:28	6°☾49'34	45.05938 AU
				opposition	-2372 Aug 19 j 20:45	6°☾46'37	-17°-5'-51
conjunction	-2379 Feb 05 j 18:53	28°☾22'46	-15°-35'-56	direct	-2372 Nov 08 j 14:14	5°☾44'47	
minimum elong	-2379 Feb 05 j 18:47	28°☾22'46	15°36'00				
max. Earth dist.	-2379 Feb 08 j 16:09	28°☾27'10	45.73961 AU	conjunction	-2371 Feb 14 j 19:15	7°☾17'50	-16°-25'-7
	-2379 May 04 j 03:48	0°☾		minimum elong	-2371 Feb 14 j 19:14	7°☾17'50	16°25'11
retrograde	-2379 May 20 j 10:06	0°☾02'59		max. Earth dist.	-2371 Feb 17 j 09:25	7°☾21'41	47.05034 AU
	-2379 Jun 05 j 18:14	30°☾☾		retrograde	-2371 May 29 j 06:16	8°☾55'07	
min. Earth dist.	-2379 Aug 09 j 12:46	29°☾01'54	43.90700 AU	min. Earth dist.	-2371 Aug 18 j 17:13	7°☾54'50	45.21196 AU
opposition	-2379 Aug 12 j 06:23	28°☾58'36	-16°-22'-4	opposition	-2371 Aug 21 j 04:53	7°☾51'53	-17°-10'-30
direct	-2379 Oct 31 j 23:44	27°☾55'49		direct	-2371 Nov 10 j 00:31	6°☾50'11	
conjunction	-2378 Feb 07 j 04:34	29°☾31'19	-15°-43'-25	conjunction	-2370 Feb 16 j 03:33	8°☾22'58	-16°-29'-32
minimum elong	-2378 Feb 07 j 04:29	29°☾31'18	15°43'30	minimum elong	-2370 Feb 16 j 03:31	8°☾22'58	16°29'36
max. Earth dist.	-2378 Feb 09 j 23:46	29°☾35'34	45.91699 AU	max. Earth dist.	-2370 Feb 18 j 17:00	8°☾26'45	47.20072 AU
	-2378 Feb 26 j 08:05	0°☾		retrograde	-2370 May 30 j 14:11	9°☾59'57	
retrograde	-2378 May 21 j 20:57	1°☾11'08		min. Earth dist.	-2370 Aug 20 j 02:59	8°☾59'45	45.36164 AU
min. Earth dist.	-2378 Aug 10 j 22:53	0°☾10'10	44.08327 AU	opposition	-2370 Aug 22 j 12:59	8°☾56'53	-17°-14'-45
opposition	-2378 Aug 13 j 15:59	0°☾06'54	-16°-29'-31	direct	-2370 Nov 11 j 09:54	7°☾55'21	
	-2378 Aug 19 j 09:00	30°☾☾					
direct	-2378 Nov 02 j 07:59	29°☾04'16		conjunction	-2369 Feb 17 j 11:55	9°☾27'51	-16°-33'-35
	-2377 Jan 12 j 19:17	0°☾		minimum elong	-2369 Feb 17 j 11:55	9°☾27'51	16°33'39
				max. Earth dist.	-2369 Feb 20 j 01:06	9°☾31'36	47.34808 AU
conjunction	-2377 Feb 08 j 14:07	0°☾39'23	-15°-50'-32	retrograde	-2369 May 31 j 22:56	11°☾04'33	
minimum elong	-2377 Feb 08 j 14:03	0°☾39'22	15°50'36	min. Earth dist.	-2369 Aug 21 j 11:23	10°☾04'29	45.50773 AU
max. Earth dist.	-2377 Feb 11 j 09:10	0°☾43'36	46.08965 AU	opposition	-2369 Aug 23 j 20:48	10°☾01'39	-17°-18'-39
retrograde	-2377 May 23 j 04:01	2°☾18'48		direct	-2369 Nov 12 j 17:47	9°☾00'16	
min. Earth dist.	-2377 Aug 12 j 10:15	1°☾17'52	44.25476 AU				
opposition	-2377 Aug 15 j 01:23	1°☾14'42	-16°-36'-35	conjunction	-2368 Feb 18 j 20:04	10°☾32'30	-16°-37'-17
direct	-2377 Nov 03 j 19:28	0°☾12'12		minimum elong	-2368 Feb 18 j 20:03	10°☾32'30	16°37'21
				max. Earth dist.	-2368 Feb 21 j 07:15	10°☾36'07	47.49154 AU

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Attention, astronomical year style is used: The year -2368 in astronomical counting style is the year 2369 BCE in historical counting style.

retrograde	-2368 Jun 01 j 09:38	12°08'55		minimum elong	-2360 Feb 27 j 09:50	18°57'52	16°55'30
min. Earth dist.	-2368 Aug 21 j 20:09	11°08'57	45.64974 AU	max. Earth dist.	-2360 Feb 29 j 12:31	19°00'54	48.47343 AU
opposition	-2368 Aug 24 j 04:28	11°06'11	-17°-22'-12	retrograde	-2360 Jun 09 j 16:46	20°31'56	
direct	-2368 Nov 12 j 23:08	10°04'56		min. Earth dist.	-2360 Aug 30 j 14:25	19°32'20	46.61787 AU
				opposition	-2360 Sep 01 j 13:22	19°30'02	-17°-38'-52
conjunction	-2367 Feb 19 j 04:18	11°36'56	-16°-40'-39	direct	-2360 Nov 21 j 12:30	18°29'30	
minimum elong	-2367 Feb 19 j 04:19	11°36'56	16°40'43				
max. Earth dist.	-2367 Feb 21 j 15:19	11°40'31	47.63057 AU	conjunction	-2359 Feb 27 j 16:58	19°59'25	-16°-56'-17
retrograde	-2367 Jun 02 j 17:26	13°13'03		minimum elong	-2359 Feb 27 j 17:01	19°59'25	16°56'21
min. Earth dist.	-2367 Aug 23 j 05:42	12°13'08	45.78687 AU	max. Earth dist.	-2359 Mar 01 j 19:15	20°02'24	48.57972 AU
opposition	-2367 Aug 25 j 12:09	12°10'27	-17°-25'-24	retrograde	-2359 Jun 10 j 22:21	21°33'14	
direct	-2367 Nov 14 j 06:29	11°09'20		min. Earth dist.	-2359 Aug 31 j 21:00	20°33'44	46.72272 AU
				opposition	-2359 Sep 02 j 19:49	20°31'27	-17°-39'-27
conjunction	-2366 Feb 20 j 12:16	12°41'04	-16°-43'-42	direct	-2359 Nov 22 j 20:41	19°31'01	
minimum elong	-2366 Feb 20 j 12:16	12°41'04	16°43'45				
max. Earth dist.	-2366 Feb 22 j 21:10	12°44'31	47.76468 AU	conjunction	-2358 Feb 28 j 23:49	21°00'43	-16°-56'-47
retrograde	-2366 Jun 04 j 00:34	14°16'53		minimum elong	-2358 Feb 28 j 23:53	21°00'43	16°56'49
min. Earth dist.	-2366 Aug 24 j 13:33	13°17'05	45.91884 AU	max. Earth dist.	-2358 Mar 03 j 00:27	21°03'36	48.68300 AU
opposition	-2366 Aug 26 j 19:40	13°14'25	-17°-28'-18	retrograde	-2358 Jun 12 j 07:17	22°34'19	
direct	-2366 Nov 15 j 14:15	12°13'24		min. Earth dist.	-2358 Sep 02 j 04:37	21°34'53	46.82451 AU
				opposition	-2358 Sep 04 j 02:18	21°32'40	-17°-39'-43
conjunction	-2365 Feb 21 j 20:16	13°44'52	-16°-46'-27	direct	-2358 Nov 24 j 01:35	20°32'20	
minimum elong	-2365 Feb 21 j 20:17	13°44'52	16°46'31				
max. Earth dist.	-2365 Feb 24 j 04:01	13°48'15	47.89349 AU	conjunction	-2357 Mar 02 j 06:57	22°01'51	-16°-56'-58
	-2365 Apr 22 j 09:26	15°		minimum elong	-2357 Mar 02 j 07:00	22°01'51	16°57'01
retrograde	-2365 Jun 05 j 06:14	15°20'23		max. Earth dist.	-2357 Mar 04 j 07:36	22°04'44	48.78298 AU
	-2365 Jul 19 j 20:30	15°R		retrograde	-2357 Jun 13 j 14:51	23°35'14	
min. Earth dist.	-2365 Aug 25 j 23:15	14°20'34	46.04559 AU	min. Earth dist.	-2357 Sep 03 j 12:17	22°35'51	46.92259 AU
opposition	-2365 Aug 28 j 03:01	14°18'02	-17°-30'-53	opposition	-2357 Sep 05 j 08:29	22°33'43	-17°-39'-39
direct	-2365 Nov 16 j 23:48	13°17'06		direct	-2357 Nov 25 j 07:05	21°33'29	
conjunction	-2364 Feb 23 j 04:11	14°48'16	-16°-48'-54	conjunction	-2356 Mar 02 j 13:55	23°02'51	-16°-56'-51
minimum elong	-2364 Feb 23 j 04:12	14°48'16	16°48'57	minimum elong	-2356 Mar 02 j 14:00	23°02'51	16°56'54
max. Earth dist.	-2364 Feb 25 j 11:08	14°51'36	48.01739 AU	max. Earth dist.	-2356 Mar 04 j 12:31	23°05'36	48.87916 AU
	-2364 Mar 02 j 06:42	15°		retrograde	-2356 Jun 13 j 22:36	24°36'02	
retrograde	-2364 Jun 05 j 12:09	16°23'29		min. Earth dist.	-2356 Sep 03 j 18:51	23°36'45	47.01654 AU
min. Earth dist.	-2364 Aug 26 j 06:55	15°23'44	46.16746 AU	opposition	-2356 Sep 05 j 14:38	23°34'38	-17°-39'-18
opposition	-2364 Aug 28 j 10:08	15°21'14	-17°-33'-8	direct	-2356 Nov 25 j 11:57	22°34'31	
	-2364 Sep 15 j 20:45	15°R					
direct	-2364 Nov 17 j 09:21	14°20'23		conjunction	-2355 Mar 03 j 20:43	24°03'42	-16°-56'-28
	-2363 Jan 16 j 20:23	15°		minimum elong	-2355 Mar 03 j 20:46	24°03'43	16°56'31
				max. Earth dist.	-2355 Mar 05 j 18:22	24°06'24	48.97074 AU
conjunction	-2363 Feb 23 j 11:36	15°51'16	-16°-51'-1	retrograde	-2355 Jun 15 j 03:39	25°36'42	
minimum elong	-2363 Feb 23 j 11:38	15°51'16	16°51'06	min. Earth dist.	-2355 Sep 05 j 03:27	24°37'25	47.10562 AU
max. Earth dist.	-2363 Feb 25 j 16:33	15°54'27	48.13671 AU	opposition	-2355 Sep 06 j 20:53	24°35'25	-17°-38'-40
retrograde	-2363 Jun 06 j 22:24	17°26'11		direct	-2355 Nov 26 j 19:20	23°35'24	
min. Earth dist.	-2363 Aug 27 j 15:05	16°26'27	46.28519 AU				
opposition	-2363 Aug 29 j 17:14	16°24'01	-17°-35'-5	conjunction	-2354 Mar 05 j 03:41	25°04'25	-16°-55'-48
direct	-2363 Nov 18 j 14:14	15°23'14		minimum elong	-2354 Mar 05 j 03:47	25°04'26	16°55'51
				max. Earth dist.	-2354 Mar 07 j 00:15	25°07'03	49.05741 AU
conjunction	-2362 Feb 24 j 19:10	16°53'51	-16°-52'-50	retrograde	-2354 Jun 16 j 08:00	26°37'13	
minimum elong	-2362 Feb 24 j 19:12	16°53'51	16°52'53	min. Earth dist.	-2354 Sep 06 j 09:57	25°38'01	47.18944 AU
max. Earth dist.	-2362 Feb 27 j 00:13	16°57'02	48.25220 AU	opposition	-2354 Sep 08 j 02:48	25°36'02	-17°-37'-45
retrograde	-2362 Jun 08 j 05:56	18°28'28		direct	-2354 Nov 28 j 04:07	24°36'06	
min. Earth dist.	-2362 Aug 28 j 23:24	17°28'45	46.39921 AU				
opposition	-2362 Aug 31 j 00:04	17°26'23	-17°-36'-41	conjunction	-2353 Mar 06 j 10:28	26°04'57	-16°-54'-52
direct	-2362 Nov 19 j 20:59	16°25'40		minimum elong	-2353 Mar 06 j 10:32	26°04'57	16°54'55
				max. Earth dist.	-2353 Mar 08 j 04:34	26°07'25	49.13875 AU
conjunction	-2361 Feb 26 j 02:32	17°56'02	-16°-54'-19	retrograde	-2353 Jun 17 j 16:55	27°37'33	
minimum elong	-2361 Feb 26 j 02:34	17°56'02	16°54'23	min. Earth dist.	-2353 Sep 07 j 17:39	26°38'20	47.26802 AU
max. Earth dist.	-2361 Feb 28 j 05:57	17°59'07	48.36440 AU	opposition	-2353 Sep 09 j 08:48	26°36'27	-17°-36'-35
retrograde	-2361 Jun 09 j 12:04	19°30'22		direct	-2353 Nov 29 j 09:01	25°36'34	
min. Earth dist.	-2361 Aug 30 j 06:05	18°30'44	46.51006 AU				
opposition	-2361 Sep 01 j 06:46	18°28'22	-17°-37'-56	conjunction	-2352 Mar 06 j 17:16	27°05'15	-16°-53'-41
direct	-2361 Nov 21 j 03:45	17°27'44		minimum elong	-2352 Mar 06 j 17:22	27°05'15	16°53'44
				max. Earth dist.	-2352 Mar 08 j 11:05	27°07'42	49.21496 AU
conjunction	-2360 Feb 27 j 09:47	18°57'52	-16°-55'-28	retrograde	-2352 Jun 18 j 00:13	28°37'38	

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Attention, astronomical year style is used: The year -2352 in astronomical counting style is the year 2353 BCE in historical counting style.

min. Earth dist.	-2352 Sep 08 j 00:57	27°≈38'25	47.34154 AU	max. Earth dist.	-2344 Mar 16 j 04:49	5°✕01'10	49.69526 AU
opposition	-2352 Sep 09 j 14:30	27°≈36'37	-17°-35'-8	retrograde	-2344 Jun 25 j 19:59	6°✕30'15	
direct	-2352 Nov 29 j 14:01	26°≈36'47		min. Earth dist.	-2344 Sep 16 j 03:04	5°✕31'16	47.80452 AU
				opposition	-2344 Sep 17 j 09:13	5°✕29'50	-17°-13'-5
conjunction	-2351 Mar 07 j 23:46	28°≈05'16	-16°-52'-13	direct	-2344 Dec 07 j 12:31	4°✕30'26	
minimum elong	-2351 Mar 07 j 23:52	28°≈05'17	16°52'16				
max. Earth dist.	-2351 Mar 09 j 15:31	28°≈07'36	49.28665 AU	conjunction	-2343 Mar 16 j 01:37	5°✕57'53	-16°-30'-18
retrograde	-2351 Jun 19 j 07:05	29°≈37'27		minimum elong	-2343 Mar 16 j 01:46	5°✕57'54	16°30'21
min. Earth dist.	-2351 Sep 09 j 06:55	28°≈38'16	47.41089 AU	max. Earth dist.	-2343 Mar 17 j 08:41	5°✕59'41	49.73972 AU
opposition	-2351 Sep 10 j 20:07	28°≈36'29	-17°-33'-25	retrograde	-2343 Jun 27 j 02:04	7°✕28'46	
direct	-2351 Nov 30 j 18:23	27°≈36'42		min. Earth dist.	-2343 Sep 17 j 10:05	6°✕29'46	47.84600 AU
				opposition	-2343 Sep 18 j 14:23	6°✕28'25	-17°-9'-4
conjunction	-2350 Mar 09 j 06:09	29°≈05'02	-16°-50'-29	direct	-2343 Dec 08 j 18:20	5°✕29'05	
minimum elong	-2350 Mar 09 j 06:15	29°≈05'02	16°50'32				
max. Earth dist.	-2350 Mar 10 j 21:10	29°≈07'18	49.35429 AU	conjunction	-2342 Mar 17 j 07:49	6°✕56'26	-16°-26'-21
	-2350 Apr 20 j 08:27	0°✕		minimum elong	-2342 Mar 17 j 07:56	6°✕56'27	16°26'23
retrograde	-2350 Jun 20 j 10:21	0°✕37'00		max. Earth dist.	-2342 Mar 18 j 14:27	6°✕58'12	49.77927 AU
	-2350 Aug 21 j 17:39	30°R≈		retrograde	-2342 Jun 28 j 08:34	8°✕27'12	
min. Earth dist.	-2350 Sep 10 j 14:32	29°≈37'47	47.47645 AU	opposition	-2342 Sep 19 j 19:28	7°✕26'55	-17°-4'-48
opposition	-2350 Sep 12 j 01:46	29°≈36'06	-17°-31'-24	min. Earth dist.	-2342 Sep 18 j 16:45	7°✕28'11	47.88212 AU
direct	-2350 Dec 02 j 02:31	28°≈36'21		direct	-2342 Dec 09 j 23:25	6°✕27'36	
	-2349 Mar 07 j 07:06	0°✕					
conjunction	-2349 Mar 10 j 12:38	0°✕04'31	-16°-48'-28	conjunction	-2341 Mar 18 j 13:58	7°✕54'52	-16°-22'-11
minimum elong	-2349 Mar 10 j 12:44	0°✕04'31	16°48'29	minimum elong	-2341 Mar 18 j 14:07	7°✕54'53	16°22'13
max. Earth dist.	-2349 Mar 12 j 02:55	0°✕06'45	49.41861 AU	max. Earth dist.	-2341 Mar 19 j 18:05	7°✕56'29	49.81352 AU
retrograde	-2349 Jun 21 j 13:24	1°✕36'17		retrograde	-2341 Jun 29 j 16:20	9°✕25'29	
min. Earth dist.	-2349 Sep 11 j 19:54	0°✕37'08	47.53875 AU	min. Earth dist.	-2341 Sep 19 j 22:29	8°✕26'29	47.91296 AU
opposition	-2349 Sep 13 j 07:01	0°✕35'27	-17°-29'-5	opposition	-2341 Sep 21 j 00:22	8°✕25'15	-17°00'-18
	-2349 Oct 16 j 04:34	30°R≈		direct	-2341 Dec 11 j 02:28	7°✕25'58	
direct	-2349 Dec 03 j 10:47	29°≈35'45		conjunction	-2340 Mar 18 j 20:04	8°✕53'08	-16°-17'-46
	-2348 Jan 19 j 18:48	0°✕		minimum elong	-2340 Mar 18 j 20:12	8°✕53'08	16°17'47
conjunction	-2348 Mar 10 j 18:53	1°✕03'46	-16°-46'-9	max. Earth dist.	-2340 Mar 19 j 23:00	8°✕54'41	49.84245 AU
minimum elong	-2348 Mar 10 j 18:59	1°✕03'47	16°46'12	retrograde	-2340 Jun 29 j 20:34	10°✕23'36	
max. Earth dist.	-2348 Mar 12 j 07:26	1°✕05'54	49.47981 AU	min. Earth dist.	-2340 Sep 20 j 05:45	9°✕24'32	47.93865 AU
retrograde	-2348 Jun 21 j 20:31	2°✕35'22		opposition	-2340 Sep 21 j 05:23	9°✕23'24	-16°-55'-34
min. Earth dist.	-2348 Sep 12 j 02:41	1°✕36'13	47.59819 AU	direct	-2340 Dec 11 j 08:38	8°✕24'08	
opposition	-2348 Sep 13 j 12:29	1°✕34'36	-17°-26'-28				
direct	-2348 Dec 03 j 15:58	0°✕34'57		conjunction	-2339 Mar 20 j 01:55	9°✕51'13	-16°-13'-6
				minimum elong	-2339 Mar 20 j 02:05	9°✕51'13	16°13'09
conjunction	-2347 Mar 12 j 01:01	2°✕02'50	-16°-43'-32	max. Earth dist.	-2339 Mar 21 j 03:52	9°✕52'42	49.86668 AU
minimum elong	-2347 Mar 12 j 01:09	2°✕02'50	16°43'34	retrograde	-2339 Jun 30 j 23:16	11°✕21'33	
max. Earth dist.	-2347 Mar 13 j 13:45	2°✕04'57	49.53825 AU	min. Earth dist.	-2339 Sep 21 j 10:52	10°✕22'29	47.95980 AU
retrograde	-2347 Jun 23 j 03:18	3°✕34'16		opposition	-2339 Sep 22 j 10:10	10°✕21'23	-16°-50'-35
min. Earth dist.	-2347 Sep 13 j 08:54	2°✕35'09	47.65468 AU	direct	-2339 Dec 12 j 16:00	9°✕22'07	
opposition	-2347 Sep 14 j 17:49	2°✕33'35	-17°-23'-33				
direct	-2347 Dec 04 j 21:08	1°✕33'59		conjunction	-2338 Mar 21 j 07:46	10°✕49'06	-16°-8'-12
				minimum elong	-2338 Mar 21 j 07:55	10°✕49'07	16°08'14
conjunction	-2346 Mar 13 j 07:09	3°✕01'44	-16°-40'-38	max. Earth dist.	-2338 Mar 22 j 07:41	10°✕50'29	49.88661 AU
minimum elong	-2346 Mar 13 j 07:16	3°✕01'45	16°40'41	retrograde	-2338 Jul 02 j 05:04	12°✕19'20	
max. Earth dist.	-2346 Mar 14 j 18:01	3°✕03'45	49.59392 AU	opposition	-2338 Sep 23 j 14:55	11°✕19'11	-16°-45'-20
retrograde	-2346 Jun 24 j 11:49	4°✕33'01		min. Earth dist.	-2338 Sep 22 j 17:21	11°✕20'13	47.97706 AU
opposition	-2346 Sep 15 j 22:58	3°✕32'25	-17°-20'-20	direct	-2338 Dec 13 j 21:17	10°✕19'57	
min. Earth dist.	-2346 Sep 14 j 14:23	3°✕33'58	47.70831 AU				
direct	-2346 Dec 05 j 23:25	2°✕32'53		conjunction	-2337 Mar 22 j 13:46	11°✕46'51	-16°-3'-2
				minimum elong	-2337 Mar 22 j 13:55	11°✕46'51	16°03'05
conjunction	-2345 Mar 14 j 13:21	4°✕00'32	-16°-37'-28	max. Earth dist.	-2337 Mar 23 j 13:33	11°✕48'12	49.90290 AU
minimum elong	-2345 Mar 14 j 13:30	4°✕00'33	16°37'30	retrograde	-2337 Jul 03 j 10:26	13°✕16'58	
max. Earth dist.	-2345 Mar 15 j 23:38	4°✕02'31	49.64640 AU	opposition	-2337 Sep 24 j 19:36	12°✕16'52	-16°-39'-49
retrograde	-2345 Jun 25 j 17:31	5°✕31'40		min. Earth dist.	-2337 Sep 23 j 22:59	12°✕17'51	47.99071 AU
min. Earth dist.	-2345 Sep 15 j 21:44	4°✕32'37	47.75845 AU	direct	-2337 Dec 15 j 02:47	11°✕17'38	
opposition	-2345 Sep 17 j 04:14	4°✕31'09	-17°-16'-51				
direct	-2345 Dec 07 j 04:22	3°✕31'42		conjunction	-2336 Mar 22 j 19:27	12°✕44'29	-15°-57'-37
				minimum elong	-2336 Mar 22 j 19:37	12°✕44'29	15°57'38
conjunction	-2344 Mar 14 j 19:32	4°✕59'15	-16°-34'-1	max. Earth dist.	-2336 Mar 23 j 17:17	12°✕45'43	49.91593 AU
minimum elong	-2344 Mar 14 j 19:40	4°✕59'15	16°34'03	retrograde	-2336 Jul 03 j 18:27	14°✕14'30	
				min. Earth dist.	-2336 Sep 24 j 03:57	13°✕15'25	48.00131 AU

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Attention, astronomical year style is used: The year -2336 in astronomical counting style is the year 2337 BCE in historical counting style.

opposition	-2336 Sep 25 j 00:11	13° K 14'27	-16°-34'-1	conjunction	-2327 Mar 31 j 23:55	21° K 23'08	-14°-57'-30
direct	-2336 Dec 15 j 04:31	12° K 15'14		minimum elong	-2327 Apr 01 j 00:06	21° K 23'09	14°57'31
				max. Earth dist.	-2327 Apr 01 j 10:15	21° K 23'43	49.86275 AU
conjunction	-2335 Mar 24 j 01:14	13° K 42'03	-15°-51'-55	retrograde	-2327 Jul 12 j 14:53	22° K 52'42	
minimum elong	-2335 Mar 24 j 01:24	13° K 42'03	15°51'58	opposition	-2327 Oct 03 j 17:14	21° K 52'58	-15°-30'-26
max. Earth dist.	-2335 Mar 24 j 22:31	13° K 43'16	49.92591 AU	min. Earth dist.	-2327 Oct 03 j 09:02	21° K 53'21	47.91829 AU
retrograde	-2335 Jul 05 j 00:25	15° K 11'59		direct	-2327 Dec 24 j 04:00	20° K 53'51	
min. Earth dist.	-2335 Sep 25 j 10:30	14° K 12'51	48.00890 AU				
opposition	-2335 Sep 26 j 04:53	14° K 11'59	-16°-27'-57	conjunction	-2326 Apr 02 j 05:36	22° K 20'32	-14°-49'-40
direct	-2335 Dec 16 j 08:23	13° K 12'49		minimum elong	-2326 Apr 02 j 05:47	22° K 20'33	14°49'42
				max. Earth dist.	-2326 Apr 02 j 13:44	22° K 21'00	49.83301 AU
conjunction	-2334 Mar 25 j 06:58	14° K 39'36	-15°-45'-58	retrograde	-2326 Jul 13 j 22:53	23° K 50'03	
minimum elong	-2334 Mar 25 j 07:09	14° K 39'36	15°45'59	opposition	-2326 Oct 04 j 21:39	22° K 50'17	-15°-22'-11
max. Earth dist.	-2334 Mar 26 j 03:25	14° K 40'46	49.93308 AU	min. Earth dist.	-2326 Oct 04 j 14:17	22° K 50'38	47.88529 AU
retrograde	-2334 Jul 06 j 02:54	16° K 09'28		direct	-2326 Dec 25 j 06:17	21° K 51'08	
opposition	-2334 Sep 27 j 09:26	15° K 09'32	-16°-21'-37				
min. Earth dist.	-2334 Sep 26 j 15:02	15° K 10'24	48.01337 AU	conjunction	-2325 Apr 03 j 11:26	23° K 17'49	-14°-41'-36
direct	-2334 Dec 17 j 15:26	14° K 10'24		minimum elong	-2325 Apr 03 j 11:37	23° K 17'50	14°41'36
				max. Earth dist.	-2325 Apr 03 j 18:45	23° K 18'14	49.79927 AU
conjunction	-2333 Mar 26 j 12:44	15° K 37'10	-15°-39'-45	retrograde	-2325 Jul 15 j 05:34	24° K 47'16	
minimum elong	-2333 Mar 26 j 12:54	15° K 37'10	15°39'47	opposition	-2325 Oct 06 j 02:01	23° K 47'30	-15°-13'-41
max. Earth dist.	-2333 Mar 27 j 07:11	15° K 38'13	49.93690 AU	min. Earth dist.	-2325 Oct 05 j 20:34	23° K 47'46	47.84857 AU
retrograde	-2333 Jul 07 j 07:41	17° K 07'00		direct	-2325 Dec 26 j 09:35	22° K 48'18	
opposition	-2333 Sep 28 j 13:58	16° K 07'07	-16°-15'-1				
min. Earth dist.	-2333 Sep 27 j 21:26	16° K 07'55	48.01440 AU	conjunction	-2324 Apr 03 j 17:10	24° K 15'00	-14°-33'-16
direct	-2333 Dec 18 j 21:26	15° K 08'02		minimum elong	-2324 Apr 03 j 17:22	24° K 15'01	14°33'17
				max. Earth dist.	-2324 Apr 03 j 23:35	24° K 15'22	49.76228 AU
conjunction	-2332 Mar 26 j 18:39	16° K 34'48	-15°-33'-16	retrograde	-2324 Jul 15 j 08:54	25° K 44'25	
minimum elong	-2332 Mar 26 j 18:50	16° K 34'48	15°33'18	opposition	-2324 Oct 06 j 06:21	24° K 44'38	-15°-4'-54
max. Earth dist.	-2332 Mar 27 j 12:58	16° K 35'50	49.93701 AU	min. Earth dist.	-2324 Oct 06 j 00:50	24° K 44'54	47.80871 AU
retrograde	-2332 Jul 07 j 13:59	18° K 04'36		direct	-2324 Dec 26 j 15:14	23° K 45'23	
opposition	-2332 Sep 28 j 18:32	17° K 04'47	-16°-8'-9				
min. Earth dist.	-2332 Sep 28 j 03:13	17° K 05'31	48.01125 AU	conjunction	-2323 Apr 04 j 22:39	25° K 12'07	-14°-24'-41
direct	-2332 Dec 19 j 01:56	16° K 05'44		minimum elong	-2323 Apr 04 j 22:51	25° K 12'08	14°24'41
				max. Earth dist.	-2323 Apr 05 j 03:17	25° K 12'23	49.72223 AU
conjunction	-2331 Mar 28 j 00:17	17° K 32'29	-15°-26'-34	retrograde	-2323 Jul 16 j 12:30	26° K 41'32	
minimum elong	-2331 Mar 28 j 00:27	17° K 32'30	15°26'36	opposition	-2323 Oct 07 j 10:53	25° K 41'44	-14°-55'-52
max. Earth dist.	-2331 Mar 28 j 16:13	17° K 33'24	49.93273 AU	min. Earth dist.	-2323 Oct 07 j 06:59	25° K 41'55	47.76598 AU
retrograde	-2331 Jul 08 j 22:39	19° K 02'16		direct	-2323 Dec 27 j 21:32	24° K 42'28	
opposition	-2331 Sep 29 j 23:08	18° K 02'30	-16°-1'-4				
min. Earth dist.	-2331 Sep 29 j 08:45	18° K 03'11	48.00341 AU	conjunction	-2322 Apr 06 j 04:29	26° K 09'14	-14°-15'-50
direct	-2331 Dec 20 j 03:33	17° K 03'28		minimum elong	-2322 Apr 06 j 04:41	26° K 09'15	14°15'52
				max. Earth dist.	-2322 Apr 06 j 09:10	26° K 09'30	49.67938 AU
conjunction	-2330 Mar 29 j 06:15	18° K 30'14	-15°-19'-38	retrograde	-2322 Jul 17 j 16:45	27° K 38'39	
minimum elong	-2330 Mar 29 j 06:27	18° K 30'14	15°19'39	opposition	-2322 Oct 08 j 15:10	26° K 38'52	-14°-46'-34
max. Earth dist.	-2330 Mar 29 j 20:58	18° K 31'04	49.92328 AU	min. Earth dist.	-2322 Oct 08 j 12:06	26° K 39'01	47.72024 AU
retrograde	-2330 Jul 10 j 03:48	19° K 59'57		direct	-2322 Dec 29 j 03:28	25° K 39'35	
opposition	-2330 Oct 01 j 03:44	19° K 00'14	-15°-53'-45				
min. Earth dist.	-2330 Sep 30 j 15:44	19° K 00'48	47.99014 AU	conjunction	-2321 Apr 07 j 10:14	27° K 06'25	-14°-6'-44
direct	-2330 Dec 21 j 08:20	18° K 01'12		minimum elong	-2321 Apr 07 j 10:27	27° K 06'26	14°06'45
				max. Earth dist.	-2321 Apr 07 j 12:48	27° K 06'34	49.63355 AU
conjunction	-2329 Mar 30 j 12:17	19° K 27'57	-15°-12'-28	retrograde	-2321 Jul 19 j 00:59	28° K 35'52	
minimum elong	-2329 Mar 30 j 12:27	19° K 27'58	15°12'30	opposition	-2321 Oct 09 j 19:34	27° K 36'06	-14°-37'00
max. Earth dist.	-2329 Mar 31 j 01:30	19° K 28'42	49.90847 AU	min. Earth dist.	-2321 Oct 09 j 17:10	27° K 36'13	47.67139 AU
retrograde	-2329 Jul 11 j 06:43	20° K 57'37		direct	-2321 Dec 30 j 05:14	26° K 36'49	
opposition	-2329 Oct 02 j 08:15	19° K 57'54	-15°-46'-12				
min. Earth dist.	-2329 Oct 01 j 20:52	19° K 58'27	47.97131 AU	conjunction	-2320 Apr 07 j 16:03	28° K 03'43	-13°-57'-23
direct	-2329 Dec 22 j 15:23	18° K 58'51		minimum elong	-2320 Apr 07 j 16:14	28° K 03'44	13°57'24
				max. Earth dist.	-2320 Apr 07 j 17:47	28° K 03'49	49.58417 AU
conjunction	-2328 Mar 30 j 18:02	20° K 25'36	-15°-5'-6	retrograde	-2320 Jul 19 j 06:59	29° K 33'13	
minimum elong	-2328 Mar 30 j 18:14	20° K 25'37	15°05'08	opposition	-2320 Oct 10 j 00:02	28° K 33'28	-14°-27'-11
max. Earth dist.	-2328 Mar 31 j 04:50	20° K 26'13	49.88809 AU	min. Earth dist.	-2320 Oct 09 j 23:42	28° K 33'29	47.61867 AU
retrograde	-2328 Jul 11 j 10:59	21° K 55'13		direct	-2320 Dec 30 j 08:59	27° K 34'11	
opposition	-2328 Oct 02 j 12:49	20° K 55'30	-15°-38'-26				
min. Earth dist.	-2328 Oct 02 j 03:33	20° K 55'56	47.94721 AU	conjunction	-2319 Apr 08 j 21:58	29° K 01'11	-13°-47'-47
direct	-2328 Dec 22 j 21:35	19° K 56'25		minimum elong	-2319 Apr 08 j 22:11	29° K 01'12	13°47'48
				max. Earth dist.	-2319 Apr 08 j 22:36	29° K 01'13	49.53084 AU

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Attention, astronomical year style is used: The year -2319 in astronomical counting style is the year 2320 BCE in historical counting style.

	-2319 May 25 j 21:29	0°♆		minimum elong	-2311 Apr 16 j 22:38	6°♆44'06	12°22'45
retrograde	-2319 Jul 20 j 11:10	0°♆30'43		max. Earth dist.	-2311 Apr 16 j 11:05	6°♆43'27	48.93512 AU
	-2319 Sep 14 j 15:26	30°♁		retrograde	-2311 Jul 28 j 06:54	8°♆14'06	
opposition	-2319 Oct 11 j 04:23	29°♁30'59	-14°-17'-7	opposition	-2311 Oct 18 j 16:50	7°♆14'07	-12°-47'-59
min. Earth dist.	-2319 Oct 11 j 04:31	29°♁30'59	47.56159 AU	min. Earth dist.	-2311 Oct 19 j 02:54	7°♆13'38	46.93759 AU
direct	-2319 Dec 31 j 14:57	28°♁31'41		direct	-2310 Jan 08 j 06:38	6°♆14'19	
conjunction	-2318 Apr 10 j 03:55	29°♁58'48	-13°-37'-58	conjunction	-2310 Apr 18 j 04:40	7°♆42'17	-12°-10'-58
minimum elong	-2318 Apr 10 j 04:06	29°♁58'48	13°37'58	minimum elong	-2310 Apr 18 j 04:53	7°♆42'17	12°10'58
max. Earth dist.	-2318 Apr 10 j 02:03	29°♁58'41	49.47267 AU	max. Earth dist.	-2310 Apr 17 j 16:44	7°♆41'36	48.84463 AU
	-2318 Apr 11 j 01:06	0°♆		retrograde	-2310 Jul 29 j 14:08	9°♆12'24	
retrograde	-2318 Jul 21 j 15:53	1°♆28'23		opposition	-2310 Oct 19 j 21:38	8°♆12'22	-12°-35'-40
opposition	-2318 Oct 12 j 09:00	0°♆28'40	-14°-6'-49	min. Earth dist.	-2310 Oct 20 j 09:21	8°♆11'49	46.84418 AU
min. Earth dist.	-2318 Oct 12 j 11:22	0°♆28'33	47.49946 AU	direct	-2309 Jan 09 j 09:53	7°♆12'31	
	-2318 Nov 07 j 11:53	30°♁					
direct	-2317 Jan 01 j 20:52	29°♁29'19		conjunction	-2309 Apr 19 j 10:59	8°♆40'38	-11°-58'-57
	-2317 Feb 25 j 10:41	0°♆		minimum elong	-2309 Apr 19 j 11:11	8°♆40'39	11°58'58
conjunction	-2317 Apr 11 j 10:08	0°♆56'32	-13°-27'-55	max. Earth dist.	-2309 Apr 18 j 22:08	8°♆39'54	48.75140 AU
minimum elong	-2317 Apr 11 j 10:21	0°♆56'32	13°27'56	retrograde	-2309 Jul 30 j 19:56	10°♆10'51	
max. Earth dist.	-2317 Apr 11 j 07:36	0°♆56'23	49.40930 AU	opposition	-2309 Oct 21 j 02:14	9°♆10'49	-12°-23'-5
retrograde	-2317 Jul 22 j 19:58	2°♆26'11		min. Earth dist.	-2309 Oct 21 j 14:09	9°♆10'14	46.74780 AU
opposition	-2317 Oct 13 j 13:27	1°♆26'26	-13°-56'-18	direct	-2308 Jan 10 j 15:09	8°♆10'53	
min. Earth dist.	-2317 Oct 13 j 16:59	1°♆26'16	47.43193 AU	conjunction	-2308 Apr 19 j 17:18	9°♆39'12	-11°-46'-41
direct	-2316 Jan 03 j 03:15	0°♆27'03		minimum elong	-2308 Apr 19 j 17:31	9°♆39'13	11°46'42
				max. Earth dist.	-2308 Apr 19 j 02:26	9°♆38'21	48.65488 AU
conjunction	-2316 Apr 11 j 16:08	1°♆54'21	-13°-17'-39	retrograde	-2308 Jul 31 j 01:04	11°♆09'33	
minimum elong	-2316 Apr 11 j 16:20	1°♆54'21	13°17'39	opposition	-2308 Oct 21 j 07:10	10°♆09'29	-12°-10'-14
max. Earth dist.	-2316 Apr 11 j 11:05	1°♆54'03	49.34074 AU	min. Earth dist.	-2308 Oct 21 j 21:02	10°♆08'49	46.64795 AU
retrograde	-2316 Jul 23 j 04:09	3°♆24'03		direct	-2307 Jan 10 j 21:05	9°♆09'30	
opposition	-2316 Oct 13 j 18:00	2°♆24'17	-13°-45'-32				
min. Earth dist.	-2316 Oct 13 j 22:41	2°♆24'03	47.35942 AU	conjunction	-2307 Apr 20 j 23:45	10°♆38'00	-11°-34'-10
direct	-2315 Jan 03 j 05:37	1°♆24'50		minimum elong	-2307 Apr 20 j 23:57	10°♆38'01	11°34'10
				max. Earth dist.	-2307 Apr 20 j 08:34	10°♆37'08	48.55453 AU
conjunction	-2315 Apr 12 j 22:06	2°♆52'13	-13°-7'-9	retrograde	-2307 Aug 01 j 04:54	12°♆08'30	
minimum elong	-2315 Apr 12 j 22:19	2°♆52'14	13°07'10	opposition	-2307 Oct 22 j 12:05	11°♆08'24	-11°-57'-8
max. Earth dist.	-2315 Apr 12 j 16:01	2°♆51'52	49.26723 AU	min. Earth dist.	-2307 Oct 23 j 02:55	11°♆07'41	46.54376 AU
retrograde	-2315 Jul 24 j 11:31	4°♆21'58		direct	-2306 Jan 12 j 04:26	10°♆08'21	
opposition	-2315 Oct 14 j 22:39	3°♆22'09	-13°-34'-33				
min. Earth dist.	-2315 Oct 15 j 05:22	3°♆21'50	47.28218 AU	conjunction	-2306 Apr 22 j 06:22	11°♆37'02	-11°-21'-25
direct	-2314 Jan 04 j 08:52	2°♆22'39		minimum elong	-2306 Apr 22 j 06:35	11°♆37'03	11°21'25
				max. Earth dist.	-2306 Apr 21 j 12:40	11°♆36'01	48.44956 AU
conjunction	-2314 Apr 14 j 04:13	3°♆50'08	-12°-56'-25	retrograde	-2306 Aug 02 j 12:19	13°♆07'41	
minimum elong	-2314 Apr 14 j 04:25	3°♆50'08	12°56'25	opposition	-2306 Oct 23 j 17:01	12°♆07'32	-11°-43'-47
max. Earth dist.	-2314 Apr 13 j 20:57	3°♆49'43	49.18946 AU	min. Earth dist.	-2306 Oct 24 j 09:15	12°♆06'45	46.43474 AU
retrograde	-2314 Jul 25 j 16:33	5°♆19'54		direct	-2305 Jan 13 j 08:28	11°♆07'24	
opposition	-2314 Oct 16 j 03:01	4°♆20'03	-13°-23'-18				
min. Earth dist.	-2314 Oct 16 j 09:57	4°♆19'44	47.20090 AU	conjunction	-2305 Apr 23 j 13:16	12°♆36'17	-11°-8'-25
direct	-2313 Jan 05 j 13:49	3°♆20'28		minimum elong	-2305 Apr 23 j 13:27	12°♆36'17	11°08'25
				max. Earth dist.	-2305 Apr 22 j 18:14	12°♆35'11	48.33938 AU
conjunction	-2313 Apr 15 j 10:18	4°♆48'04	-12°-45'-27	retrograde	-2305 Aug 03 j 20:12	14°♆07'05	
minimum elong	-2313 Apr 15 j 10:31	4°♆48'04	12°45'28	opposition	-2305 Oct 24 j 22:14	13°♆06'51	-11°-30'-11
max. Earth dist.	-2313 Apr 15 j 01:02	4°♆47'32	49.10779 AU	min. Earth dist.	-2305 Oct 25 j 16:35	13°♆05'58	46.32038 AU
retrograde	-2313 Jul 26 j 19:53	6°♆17'54		direct	-2304 Jan 14 j 12:24	12°♆06'37	
opposition	-2313 Oct 17 j 07:40	5°♆18'00	-13°-11'-48				
min. Earth dist.	-2313 Oct 17 j 16:32	5°♆17'35	47.11610 AU	conjunction	-2304 Apr 23 j 19:59	13°♆35'41	-10°-55'-11
direct	-2312 Jan 06 j 20:45	4°♆18'20		minimum elong	-2304 Apr 23 j 20:12	13°♆35'42	10°55'12
				max. Earth dist.	-2304 Apr 22 j 23:29	13°♆34'31	48.22406 AU
conjunction	-2312 Apr 15 j 16:23	5°♆46'02	-12°-34'-13	retrograde	-2304 Aug 04 j 03:49	15°♆06'37	
minimum elong	-2312 Apr 15 j 16:36	5°♆46'03	12°34'13	opposition	-2304 Oct 25 j 03:20	14°♆06'19	-11°-16'-21
max. Earth dist.	-2312 Apr 15 j 07:06	5°♆45'30	49.02286 AU	min. Earth dist.	-2304 Oct 25 j 22:07	14°♆05'25	46.20091 AU
retrograde	-2312 Jul 26 j 22:44	7°♆15'57		direct	-2303 Jan 14 j 16:51	13°♆05'59	
opposition	-2312 Oct 17 j 12:15	6°♆16'01	-13°00'-2	max. Earth dist.	-2303 Apr 24 j 04:02	14°♆33'56	48.10369 AU
min. Earth dist.	-2312 Oct 17 j 21:39	6°♆15'33	47.02816 AU				
direct	-2311 Jan 07 j 04:23	5°♆16'16		conjunction	-2303 Apr 25 j 02:50	14°♆35'15	-10°-41'-43
				minimum elong	-2303 Apr 25 j 03:02	14°♆35'16	10°41'43
conjunction	-2311 Apr 16 j 22:25	6°♆44'06	-12°-22'-43	retrograde	-2303 Aug 05 j 08:59	16°♆06'19	

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Attention, astronomical year style is used: The year -2303 in astronomical counting style is the year 2304 BCE in historical counting style.

opposition	-2303 Oct 26 j 08:33	15°♃05'56	-11°-2'-15	max. Earth dist.	-2294 May 03 j 11:17	23°♃39'25	46.86087 AU
min. Earth dist.	-2303 Oct 27 j 05:38	15°♃04'54	46.07673 AU				
direct	-2302 Jan 15 j 23:22	14°♃05'28		conjunction	-2294 May 04 j 20:56	23°♃41'24	-8°-28'-50
max. Earth dist.	-2302 Apr 25 j 10:40	15°♃33'35	47.97887 AU	minimum elong	-2294 May 04 j 21:06	23°♃41'25	8°28'50
				retrograde	-2294 Aug 15 j 01:11	25°♃14'30	
conjunction	-2302 Apr 26 j 09:53	15°♃34'56	-10°-28'-1	opposition	-2294 Nov 04 j 11:23	24°♃13'21	-8°-43'-5
minimum elong	-2302 Apr 26 j 10:05	15°♃34'57	10°28'01	min. Earth dist.	-2294 Nov 05 j 17:48	24°♃11'51	44.80453 AU
retrograde	-2302 Aug 06 j 12:07	17°♃06'10		direct	-2293 Jan 25 j 02:02	23°♃11'49	
opposition	-2302 Oct 27 j 13:47	16°♃05'41	-10°-47'-54	max. Earth dist.	-2293 May 04 j 17:05	24°♃41'46	46.70410 AU
min. Earth dist.	-2302 Oct 28 j 11:37	16°♃04'37	45.94823 AU				
direct	-2301 Jan 17 j 08:03	15°♃05'05		conjunction	-2293 May 06 j 05:02	24°♃43'53	-8°-12'-45
				minimum elong	-2293 May 06 j 05:13	24°♃43'54	8°12'44
conjunction	-2301 Apr 27 j 16:51	16°♃34'46	-10°-14'-3	retrograde	-2293 Aug 16 j 08:55	26°♃17'15	
minimum elong	-2301 Apr 27 j 17:02	16°♃34'47	10°14'02	opposition	-2293 Nov 05 j 17:45	25°♃15'59	-8°-26'-14
max. Earth dist.	-2301 Apr 26 j 15:16	16°♃33'17	47.85004 AU	min. Earth dist.	-2293 Nov 07 j 02:37	25°♃14'22	44.64389 AU
retrograde	-2301 Aug 07 j 19:47	18°♃06'10		direct	-2292 Jan 26 j 08:28	24°♃14'18	
opposition	-2301 Oct 28 j 19:01	17°♃05'35	-10°-33'-17	max. Earth dist.	-2292 May 05 j 00:42	25°♃44'32	46.54243 AU
min. Earth dist.	-2301 Oct 29 j 17:53	17°♃04'29	45.81613 AU				
direct	-2300 Jan 18 j 12:12	16°♃04'52		conjunction	-2292 May 06 j 13:19	25°♃46'42	-7°-56'-25
				minimum elong	-2292 May 06 j 13:29	25°♃46'43	7°56'24
conjunction	-2300 Apr 27 j 23:58	17°♃34'47	-9°-59'-49	retrograde	-2292 Aug 16 j 13:12	27°♃20'20	
minimum elong	-2300 Apr 28 j 00:10	17°♃34'48	9°59'50	opposition	-2292 Nov 06 j 00:09	26°♃18'57	-8°-9'-7
max. Earth dist.	-2300 Apr 26 j 21:48	17°♃33'16	47.71772 AU	min. Earth dist.	-2292 Nov 07 j 09:41	26°♃17'17	44.47834 AU
retrograde	-2300 Aug 08 j 03:19	19°♃06'23		direct	-2291 Jan 26 j 18:51	25°♃17'05	
opposition	-2300 Oct 29 j 00:32	18°♃05'42	-10°-18'-23	max. Earth dist.	-2291 May 06 j 06:17	26°♃47'29	46.37603 AU
min. Earth dist.	-2300 Oct 30 j 00:59	18°♃04'31	45.68079 AU				
direct	-2299 Jan 18 j 16:23	17°♃04'52		conjunction	-2291 May 07 j 21:29	26°♃49'49	-7°-39'-49
max. Earth dist.	-2299 Apr 28 j 03:53	18°♃33'27	47.58255 AU	minimum elong	-2291 May 07 j 21:39	26°♃49'50	7°39'49
				retrograde	-2291 Aug 17 j 20:07	28°♃23'44	
conjunction	-2299 Apr 29 j 07:00	18°♃35'02	-9°-45'-20	opposition	-2291 Nov 07 j 06:43	27°♃22'11	-7°-51'-44
minimum elong	-2299 Apr 29 j 07:11	18°♃35'02	9°45'19	min. Earth dist.	-2291 Nov 08 j 17:44	27°♃20'26	44.30834 AU
retrograde	-2299 Aug 09 j 10:49	20°♃06'49		direct	-2290 Jan 28 j 02:19	26°♃20'07	
opposition	-2299 Oct 30 j 06:01	19°♃06'04	-10°-3'-13	max. Earth dist.	-2290 May 07 j 14:08	27°♃50'48	46.20523 AU
min. Earth dist.	-2299 Oct 31 j 06:30	19°♃04'52	45.54268 AU				
direct	-2298 Jan 19 j 21:46	18°♃05'06		conjunction	-2290 May 09 j 06:04	27°♃53'12	-7°-22'-58
max. Earth dist.	-2298 Apr 29 j 09:15	19°♃33'51	47.44455 AU	minimum elong	-2290 May 09 j 06:14	27°♃53'12	7°22'57
				retrograde	-2290 Aug 19 j 03:18	29°♃27'24	
conjunction	-2298 Apr 30 j 14:17	19°♃35'33	-9°-30'-34	opposition	-2290 Nov 08 j 13:19	28°♃25'41	-7°-34'-3
minimum elong	-2298 Apr 30 j 14:29	19°♃35'34	9°30'34	min. Earth dist.	-2290 Nov 10 j 01:59	28°♃23'51	44.13425 AU
retrograde	-2298 Aug 10 j 17:30	21°♃07'34		direct	-2289 Jan 29 j 09:10	27°♃23'26	
opposition	-2298 Oct 31 j 11:39	20°♃06'43	-9°-47'-45	max. Earth dist.	-2289 May 08 j 21:22	28°♃54'22	46.03079 AU
min. Earth dist.	-2298 Nov 01 j 14:00	20°♃05'26	45.40188 AU				
direct	-2297 Jan 21 j 04:15	19°♃05'39		conjunction	-2289 May 10 j 14:39	28°♃56'51	-7°-5'-50
				minimum elong	-2289 May 10 j 14:49	28°♃56'51	7°05'50
conjunction	-2297 May 01 j 21:50	20°♃36'24	-9°-15'-32				
minimum elong	-2297 May 01 j 22:01	20°♃36'25	9°15'32	retrograde	-2289 Jun 27 j 10:04	0°♃	
max. Earth dist.	-2297 Apr 30 j 16:45	20°♃34'42	47.30386 AU				
retrograde	-2297 Aug 11 j 22:03	22°♃08'40		opposition	-2289 Oct 14 j 06:01	30°R♃	
opposition	-2297 Nov 01 j 17:25	21°♃07'46	-9°-32'00	min. Earth dist.	-2289 Nov 09 j 20:04	29°♃29'28	-7°-16'-6
min. Earth dist.	-2297 Nov 02 j 20:10	21°♃06'27	45.25814 AU	direct	-2288 Jan 30 j 14:30	28°♃26'59	
direct	-2296 Jan 22 j 12:41	20°♃06'35		max. Earth dist.	-2288 May 09 j 04:14	29°♃58'11	45.85310 AU
max. Earth dist.	-2296 Apr 30 j 21:57	21°♃35'49	47.16009 AU				
				conjunction	-2288 May 10 j 23:13	0°♃00'47	-6°-48'-26
conjunction	-2296 May 02 j 05:10	21°♃37'39	-9°00'-14	minimum elong	-2288 May 10 j 23:22	0°♃00'47	6°48'24
minimum elong	-2296 May 02 j 05:21	21°♃37'39	9°00'14				
retrograde	-2296 Aug 12 j 05:45	23°♃10'11		retrograde	-2288 Aug 20 j 23:01	1°♃35'35	
opposition	-2296 Nov 01 j 23:17	22°♃09'13	-9°-15'-58	opposition	-2288 Nov 10 j 03:06	0°♃33'32	-6°-57'-50
min. Earth dist.	-2296 Nov 03 j 03:18	22°♃07'50	45.11119 AU	min. Earth dist.	-2288 Nov 11 j 17:52	0°♃31'35	43.77662 AU
direct	-2295 Jan 22 j 17:43	21°♃07'56					
max. Earth dist.	-2295 May 02 j 04:56	22°♃37'26	47.01260 AU	direct	-2287 Jan 30 j 20:56	29°♃30'51	
conjunction	-2295 May 03 j 12:59	22°♃39'19	-8°-44'-40	max. Earth dist.	-2287 Mar 23 j 22:01	0°♃	
minimum elong	-2295 May 03 j 13:10	22°♃39'20	8°44'40				
retrograde	-2295 Aug 13 j 14:19	24°♃12'08		conjunction	-2287 May 12 j 08:07	1°♃05'02	-6°-30'-44
opposition	-2295 Nov 03 j 05:16	23°♃11'05	-8°-59'-40	minimum elong	-2287 May 12 j 08:16	1°♃05'03	6°30'44
min. Earth dist.	-2295 Nov 04 j 11:08	23°♃09'36	44.96016 AU	retrograde	-2287 Aug 22 j 05:54	2°♃40'10	
direct	-2294 Jan 23 j 22:19	22°♃09'41		opposition	-2287 Nov 11 j 10:05	1°♃37'57	-6°-39'-16

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Attention, astronomical year style is used: The year -2287 in astronomical counting style is the year 2288 BCE in historical counting style.

min. Earth dist.	-2287 Nov 13 j 00:56	1°♃35'59	43.59403 AU	conjunction	-2278 May 23 j 02:01	11°♃06'57	-3°-38'-50
direct	-2286 Feb 01 j 06:26	0°♃35'04		minimum elong	-2278 May 23 j 02:07	11°♃06'57	3°38'49
max. Earth dist.	-2286 May 11 j 20:03	2°♃06'56	45.49050 AU	retrograde	-2278 Sep 01 j 22:08	12°♃45'59	
				opposition	-2278 Nov 21 j 11:21	11°♃42'17	-3°-38'-39
conjunction	-2286 May 13 j 17:08	2°♃09'40	-6°-12'-46	min. Earth dist.	-2278 Nov 23 j 13:30	11°♃39'41	41.81521 AU
minimum elong	-2286 May 13 j 17:17	2°♃09'41	6°12'45	direct	-2277 Feb 11 j 05:25	10°♃37'32	
retrograde	-2286 Aug 23 j 14:11	3°♃45'09		max. Earth dist.	-2277 May 22 j 05:02	12°♃13'12	43.70507 AU
opposition	-2286 Nov 12 j 17:24	2°♃42'47	-6°-20'-24				
min. Earth dist.	-2286 Nov 14 j 09:29	2°♃40'46	43.40938 AU	conjunction	-2277 May 24 j 13:08	12°♃16'45	-3°-18'-21
direct	-2285 Feb 02 j 13:46	1°♃39'44		minimum elong	-2277 May 24 j 13:13	12°♃16'45	3°18'19
max. Earth dist.	-2285 May 13 j 05:06	3°♃12'00	45.30585 AU	retrograde	-2277 Sep 03 j 10:24	13°♃56'16	
				opposition	-2277 Nov 22 j 20:30	12°♃52'21	-3°-17'-4
conjunction	-2285 May 15 j 02:27	3°♃14'46	-5°-54'-31	min. Earth dist.	-2277 Nov 24 j 22:42	12°♃49'44	41.59938 AU
minimum elong	-2285 May 15 j 02:36	3°♃14'46	5°54'30	direct	-2276 Feb 12 j 15:11	11°♃47'19	
retrograde	-2285 Aug 24 j 21:19	4°♃50'38		max. Earth dist.	-2276 May 22 j 14:13	13°♃23'26	43.48870 AU
opposition	-2285 Nov 14 j 00:53	3°♃48'08	-6°-1'-14				
min. Earth dist.	-2285 Nov 15 j 18:04	3°♃46'02	43.22241 AU	conjunction	-2276 May 25 j 00:25	13°♃27'07	-2°-57'-34
direct	-2284 Feb 03 j 22:05	2°♃44'53		minimum elong	-2276 May 25 j 00:30	13°♃27'08	2°57'33
max. Earth dist.	-2284 May 13 j 13:12	4°♃17'32	45.11895 AU		-2276 Aug 10 j 08:57	15°♃	
				retrograde	-2276 Sep 03 j 21:13	15°♃07'09	
conjunction	-2284 May 15 j 11:52	4°♃20'23	-5°-35'-58		-2276 Sep 28 j 06:49	15°♃	
minimum elong	-2284 May 15 j 12:00	4°♃20'24	5°35'57	opposition	-2276 Nov 23 j 06:00	14°♃03'00	-2°-55'-12
retrograde	-2284 Aug 25 j 08:47	5°♃56'41		min. Earth dist.	-2276 Nov 25 j 09:52	14°♃00'17	41.38132 AU
opposition	-2284 Nov 14 j 08:28	4°♃54'02	-5°-41'-45	direct	-2275 Feb 13 j 00:50	12°♃57'42	
min. Earth dist.	-2284 Nov 16 j 01:57	4°♃51'56	43.03299 AU	max. Earth dist.	-2275 May 24 j 01:51	14°♃34'23	43.27021 AU
direct	-2283 Feb 04 j 03:09	3°♃50'37					
max. Earth dist.	-2283 May 14 j 21:16	5°♃23'39	44.92900 AU	conjunction	-2275 May 26 j 12:01	14°♃38'06	-2°-36'-30
				minimum elong	-2275 May 26 j 12:05	14°♃38'07	2°36'28
conjunction	-2283 May 16 j 21:31	5°♃26'37	-5°-17'-8		-2275 Jun 09 j 20:52	15°♃	
minimum elong	-2283 May 16 j 21:38	5°♃26'37	5°17'07	retrograde	-2275 Sep 05 j 04:58	16°♃18'40	
retrograde	-2283 Aug 26 j 19:59	7°♃03'21		opposition	-2275 Nov 24 j 15:48	15°♃14'18	-2°-33'-1
opposition	-2283 Nov 15 j 16:27	6°♃00'34	-5°-21'-59	min. Earth dist.	-2275 Nov 26 j 20:09	15°♃11'32	41.16130 AU
min. Earth dist.	-2283 Nov 17 j 12:11	5°♃58'20	42.84026 AU		-2275 Dec 06 j 01:27	15°♃	
direct	-2282 Feb 05 j 09:06	4°♃56'57		direct	-2274 Feb 14 j 13:41	14°♃08'43	
max. Earth dist.	-2282 May 16 j 06:46	6°♃30'27	44.73545 AU		-2274 Apr 24 j 06:16	15°♃	
				max. Earth dist.	-2274 May 25 j 12:04	15°♃45'54	43.05002 AU
conjunction	-2282 May 18 j 07:38	6°♃33'28	-4°-58'-2				
minimum elong	-2282 May 18 j 07:46	6°♃33'29	4°58'00	conjunction	-2274 May 27 j 23:52	15°♃49'45	-2°-15'-9
retrograde	-2282 Aug 28 j 04:44	8°♃10'38		minimum elong	-2274 May 27 j 23:56	15°♃49'46	2°15'08
opposition	-2282 Nov 17 j 00:28	7°♃07'43	-5°-1'-54	retrograde	-2274 Sep 06 j 16:35	17°♃30'52	
min. Earth dist.	-2282 Nov 18 j 20:40	7°♃05'27	42.64358 AU	opposition	-2274 Nov 26 j 01:45	16°♃26'17	-2°-10'-31
direct	-2281 Feb 06 j 19:40	6°♃03'55		min. Earth dist.	-2274 Nov 28 j 06:34	16°♃23'29	40.93984 AU
max. Earth dist.	-2281 May 17 j 14:19	7°♃37'46	44.53765 AU	direct	-2273 Feb 15 j 22:38	15°♃20'26	
				max. Earth dist.	-2273 May 26 j 23:37	16°♃58'13	42.82820 AU
conjunction	-2281 May 19 j 17:53	7°♃40'58	-4°-38'-39				
minimum elong	-2281 May 19 j 18:00	7°♃40'58	4°38'38	conjunction	-2273 May 29 j 12:10	17°♃02'08	-1°-53'-32
retrograde	-2281 Aug 29 j 14:10	9°♃18'35		minimum elong	-2273 May 29 j 12:13	17°♃02'08	1°53'30
opposition	-2281 Nov 18 j 08:56	8°♃15'29	-4°-41'-32	retrograde	-2273 Sep 08 j 04:56	18°♃43'51	
min. Earth dist.	-2281 Nov 20 j 06:58	8°♃13'07	42.44267 AU	opposition	-2273 Nov 27 j 12:15	17°♃39'03	-1°-47'-43
direct	-2280 Feb 08 j 05:00	7°♃11'28		min. Earth dist.	-2273 Nov 29 j 18:36	17°♃36'09	40.71681 AU
max. Earth dist.	-2280 May 18 j 00:14	8°♃45'48	44.33543 AU	direct	-2272 Feb 17 j 06:28	16°♃32'56	
				max. Earth dist.	-2272 May 27 j 11:34	18°♃11'21	42.60483 AU
conjunction	-2280 May 20 j 04:20	8°♃49'03	-4°-18'-59				
minimum elong	-2280 May 20 j 04:27	8°♃49'03	4°18'58	conjunction	-2272 May 30 j 00:31	18°♃15'18	-1°-31'-37
retrograde	-2280 Aug 29 j 22:22	10°♃27'08		minimum elong	-2272 May 30 j 00:33	18°♃15'19	1°31'36
opposition	-2280 Nov 18 j 17:36	9°♃23'51	-4°-20'-52	retrograde	-2272 Sep 08 j 18:57	19°♃57'39	
min. Earth dist.	-2280 Nov 20 j 16:57	9°♃21'25	42.23732 AU	opposition	-2272 Nov 27 j 22:51	18°♃52'38	-1°-24'-37
direct	-2279 Feb 08 j 14:50	8°♃19'37		min. Earth dist.	-2272 Nov 30 j 05:11	18°♃49'44	40.49201 AU
max. Earth dist.	-2279 May 19 j 08:57	9°♃54'20	44.12904 AU	direct	-2271 Feb 17 j 16:49	17°♃46'16	
				max. Earth dist.	-2271 May 28 j 22:21	19°♃25'14	42.37918 AU
conjunction	-2279 May 21 j 14:59	9°♃57'43	-3°-59'-3				
minimum elong	-2279 May 21 j 15:05	9°♃57'43	3°59'02	conjunction	-2271 May 31 j 13:24	19°♃29'21	-1°-9'-26
retrograde	-2279 Aug 31 j 09:44	11°♃36'16		minimum elong	-2271 May 31 j 13:26	19°♃29'21	1°09'24
opposition	-2279 Nov 20 j 02:14	10°♃32'48	-3°-59'-54	retrograde	-2271 Sep 10 j 10:16	21°♃12'19	
min. Earth dist.	-2279 Nov 22 j 02:23	10°♃30'18	42.02808 AU	opposition	-2271 Nov 29 j 09:48	20°♃07'05	-1°-1'-12
direct	-2278 Feb 09 j 21:58	9°♃28'18		min. Earth dist.	-2271 Dec 01 j 18:07	20°♃04'05	40.26481 AU
max. Earth dist.	-2278 May 20 j 18:19	11°♃03'27	43.91869 AU	direct	-2270 Feb 19 j 03:06	19°♃00'27	

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Attention, astronomical year style is used: The year -2270 in astronomical counting style is the year 2271 BCE in historical counting style.

max. Earth dist.	-2270 May 30 j 11:36	20°♄40'09	42.15068 AU	opposition	-2263 Dec 09 j 14:54	0°♃34'24	2°16'33
				min. Earth dist.	-2263 Dec 12 j 07:22	0°♃30'48	38.33658 AU
conjunction	-2270 Jun 02 j 02:50	20°♄44'18	0°-46'-58		-2262 Jan 05 j 12:23	30°♂	
minimum elong	-2270 Jun 02 j 02:52	20°♄44'18	0°46'57	direct	-2262 Mar 01 j 10:38	29°♄25'01	
retrograde	-2270 Sep 11 j 22:27	22°♄27'55			-2262 Apr 24 j 07:55	0°♃	
opposition	-2270 Nov 30 j 21:13	21°♄22'27	0°-37'-30	max. Earth dist.	-2262 Jun 10 j 01:21	1°♃10'20	40.21116 AU
min. Earth dist.	-2270 Dec 03 j 06:13	21°♄19'23	40.03441 AU				
direct	-2269 Feb 20 j 16:41	20°♄15'32		conjunction	-2262 Jun 13 j 02:11	1°♃15'24	2°22'12
max. Earth dist.	-2269 May 31 j 22:52	21°♄55'47	41.91874 AU	minimum elong	-2262 Jun 13 j 02:07	1°♃15'23	2°22'15
				retrograde	-2262 Sep 22 j 18:45	3°♃04'51	
conjunction	-2269 Jun 03 j 16:24	22°♄00'08	0°-24'-14	opposition	-2262 Dec 11 j 05:16	1°♃57'02	2°42'29
minimum elong	-2269 Jun 03 j 16:25	22°♄00'08	0°24'11	min. Earth dist.	-2262 Dec 13 j 21:45	1°♃53'25	38.08773 AU
retrograde	-2269 Sep 13 j 11:22	23°♄44'25		direct	-2261 Mar 02 j 23:34	0°♃47'17	
opposition	-2269 Dec 02 j 08:56	22°♄38'42	0°-13'-29	max. Earth dist.	-2261 Jun 11 j 17:05	2°♃33'27	39.96139 AU
min. Earth dist.	-2269 Dec 04 j 19:15	22°♄35'33	39.80057 AU				
direct	-2268 Feb 22 j 04:12	21°♄31'28		conjunction	-2261 Jun 14 j 18:49	2°♃38'37	2°46'56
max. Earth dist.	-2268 Jun 01 j 11:58	23°♄12'23	41.68304 AU	minimum elong	-2261 Jun 14 j 18:44	2°♃38'36	2°46'58
				retrograde	-2261 Sep 24 j 12:13	4°♃28'56	
conjunction	-2268 Jun 04 j 06:33	23°♄16'50	0°-1'-15	opposition	-2261 Dec 12 j 20:13	3°♃20'49	3°08'41
minimum elong	-2268 Jun 04 j 06:32	23°♄16'50	0°01'14	min. Earth dist.	-2261 Dec 15 j 14:05	3°♃17'06	37.83863 AU
behind sun begin	-2268 Jun 04 j 00:00	23°♄16'25		direct	-2260 Mar 03 j 11:35	2°♃10'43	
behind sun end	-2268 Jun 04 j 13:04	23°♄17'14		max. Earth dist.	-2260 Jun 12 j 10:19	3°♃57'51	39.71145 AU
asc. node	-2268 Jun 23 j 15:14	23°♄47'25					
retrograde	-2268 Sep 13 j 23:17	25°♄01'48		conjunction	-2260 Jun 15 j 11:55	4°♃03'03	3°11'52
opposition	-2268 Dec 02 j 21:06	23°♄55'49	0°10'48	minimum elong	-2260 Jun 15 j 11:49	4°♃03'02	3°11'55
min. Earth dist.	-2268 Dec 05 j 09:05	23°♄52'33	39.56307 AU	retrograde	-2260 Sep 25 j 06:51	5°♃54'16	
direct	-2267 Feb 22 j 16:14	22°♄48'15		opposition	-2260 Dec 13 j 11:23	4°♃45'51	3°35'07
max. Earth dist.	-2267 Jun 03 j 01:03	24°♄29'50	41.44390 AU	min. Earth dist.	-2260 Dec 16 j 04:54	4°♃42'09	37.58928 AU
				direct	-2259 Mar 05 j 01:44	3°♃35'25	
conjunction	-2267 Jun 05 j 20:52	24°♄34'23	0°22'04	max. Earth dist.	-2259 Jun 14 j 02:07	5°♃23'25	39.46084 AU
minimum elong	-2267 Jun 05 j 20:51	24°♄34'23	0°22'07				
retrograde	-2267 Sep 15 j 14:32	26°♄20'02		conjunction	-2259 Jun 17 j 05:29	5°♃28'46	3°37'00
opposition	-2267 Dec 04 j 09:28	25°♄13'46	0°35'23	minimum elong	-2259 Jun 17 j 05:22	5°♃28'46	3°37'03
min. Earth dist.	-2267 Dec 06 j 21:46	25°♄10'28	39.32226 AU	retrograde	-2259 Sep 27 j 02:14	7°♃20'56	
direct	-2266 Feb 24 j 02:56	24°♄05'51		opposition	-2259 Dec 15 j 03:15	6°♃12'13	4°01'46
max. Earth dist.	-2266 Jun 04 j 13:55	25°♄48'04	41.20136 AU	min. Earth dist.	-2259 Dec 17 j 22:24	6°♃08'24	37.33918 AU
				direct	-2258 Mar 06 j 16:44	5°♃01'25	
conjunction	-2266 Jun 07 j 11:41	25°♄52'47	0°45'36	max. Earth dist.	-2258 Jun 15 j 20:35	6°♃50'27	39.20901 AU
minimum elong	-2266 Jun 07 j 11:39	25°♄52'46	0°45'38				
retrograde	-2266 Sep 17 j 06:08	27°♄39'09		conjunction	-2258 Jun 18 j 23:47	6°♃55'51	4°02'20
opposition	-2266 Dec 05 j 22:16	26°♄32'34	1°00'16	minimum elong	-2258 Jun 18 j 23:39	6°♃55'51	4°02'24
min. Earth dist.	-2266 Dec 08 j 12:43	26°♄29'09	39.07854 AU	retrograde	-2258 Sep 28 j 20:00	8°♃48'57	
direct	-2265 Feb 25 j 14:21	25°♄24'18		opposition	-2258 Dec 16 j 19:35	7°♃39'57	4°28'38
max. Earth dist.	-2265 Jun 06 j 05:00	27°♄07'17	40.95621 AU	min. Earth dist.	-2258 Dec 19 j 15:16	7°♃36'04	37.08765 AU
				direct	-2257 Mar 08 j 11:35	6°♃28'47	
conjunction	-2265 Jun 09 j 02:51	27°♄12'02	1°09'23	max. Earth dist.	-2257 Jun 17 j 13:22	8°♃18'43	38.95557 AU
minimum elong	-2265 Jun 09 j 02:49	27°♄12'02	1°09'26				
retrograde	-2265 Sep 18 j 21:05	28°♄59'07		conjunction	-2257 Jun 20 j 18:27	8°♃24'18	4°27'51
opposition	-2265 Dec 07 j 11:27	27°♄52'14	1°25'25	minimum elong	-2257 Jun 20 j 18:18	8°♃24'17	4°27'54
min. Earth dist.	-2265 Dec 10 j 01:58	27°♄48'48	38.83255 AU	retrograde	-2257 Sep 30 j 16:07	10°♃18'22	
direct	-2264 Feb 27 j 05:46	26°♄43'36		opposition	-2257 Dec 18 j 12:30	9°♃09'03	4°55'42
max. Earth dist.	-2264 Jun 06 j 18:12	28°♄27'16	40.70903 AU	min. Earth dist.	-2257 Dec 21 j 08:56	9°♃05'06	36.83457 AU
				direct	-2256 Mar 09 j 04:02	7°♃57'29	
conjunction	-2264 Jun 09 j 18:04	28°♄32'11	1°33'25	max. Earth dist.	-2256 Jun 18 j 08:01	9°♃48'25	38.70016 AU
minimum elong	-2264 Jun 09 j 18:01	28°♄32'11	1°33'28				
retrograde	-2264 Aug 10 j 16:44	0°♃		conjunction	-2256 Jun 21 j 13:40	9°♃54'05	4°53'32
				minimum elong	-2256 Jun 21 j 13:31	9°♃54'04	4°53'36
retrograde	-2264 Sep 19 j 13:01	0°♃20'02		retrograde	-2256 Oct 01 j 08:56	11°♃49'10	
opposition	-2264 Dec 08 j 00:59	29°♄12'50	1°50'51	opposition	-2256 Dec 19 j 06:05	10°♃39'29	5°22'58
min. Earth dist.	-2264 Dec 10 j 16:41	29°♄09'18	38.58509 AU	min. Earth dist.	-2256 Dec 22 j 03:58	10°♃35'26	36.57959 AU
direct	-2263 Feb 27 j 19:47	28°♄03'49		direct	-2255 Mar 10 j 20:53	9°♃27'30	
max. Earth dist.	-2263 Jun 08 j 10:12	29°♄48'20	40.46043 AU	max. Earth dist.	-2255 Jun 20 j 03:02	11°♃19'26	38.44304 AU
conjunction	-2263 Jun 11 j 09:59	29°♄53'17	1°57'41	conjunction	-2255 Jun 23 j 09:29	11°♃25'13	5°19'22
minimum elong	-2263 Jun 11 j 09:55	29°♄53'17	1°57'44	minimum elong	-2255 Jun 23 j 09:18	11°♃25'12	5°19'24
retrograde	-2263 Jun 15 j 11:21	0°♃		retrograde	-2255 Oct 03 j 04:43	13°♃21'17	
retrograde	-2263 Sep 21 j 02:48	1°♃41'55		opposition	-2255 Dec 20 j 23:53	12°♃11'14	5°50'24

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Attention, astronomical year style is used: The year -2255 in astronomical counting style is the year 2256 BCE in historical counting style.

min. Earth dist.	-2255 Dec 23 j 21:50	12°II07'09	36.32312 AU	conjunction	-2246 Jul 08 j 21:21	26°II08'55	9°14'30
direct	-2254 Mar 12 j 13:28	10°II58'49		minimum elong	-2246 Jul 08 j 21:01	26°II08'53	9°14'34
max. Earth dist.	-2254 Jun 21 j 21:52	12°II51'42	38.18431 AU	retrograde	-2246 Oct 18 j 22:16	28°II15'14	
				opposition	-2245 Jan 04 j 21:20	27°II01'39	10°00'22
conjunction	-2254 Jun 25 j 05:56	12°II57'39	5°45'20	min. Earth dist.	-2245 Jan 07 j 22:17	26°II57'09	34.03829 AU
minimum elong	-2254 Jun 25 j 05:44	12°II57'38	5°45'23	direct	-2245 Mar 27 j 03:36	25°II45'08	
retrograde	-2254 Oct 05 j 02:19	14°II54'44		max. Earth dist.	-2245 Jul 07 j 12:55	27°II48'54	35.88523 AU
opposition	-2254 Dec 22 j 18:32	13°II44'18	6°17'59				
min. Earth dist.	-2254 Dec 25 j 18:14	13°II40'06	36.06552 AU	conjunction	-2245 Jul 10 j 23:10	27°II55'33	9°40'21
direct	-2253 Mar 14 j 04:55	12°II31'25		minimum elong	-2245 Jul 10 j 22:50	27°II55'31	9°40'24
max. Earth dist.	-2253 Jun 23 j 19:01	14°II25'26	37.92471 AU		-2245 Oct 06 j 15:19	0°☾	
				retrograde	-2245 Oct 21 j 03:32	0°☾03'10	
conjunction	-2253 Jun 27 j 02:44	14°II31'24	6°11'25		-2245 Nov 04 j 14:10	30°RII	
minimum elong	-2253 Jun 27 j 02:31	14°II31'23	6°11'27	opposition	-2244 Jan 06 j 21:59	28°II49'12	10°27'52
retrograde	-2253 Oct 06 j 23:19	16°II29'32		min. Earth dist.	-2244 Jan 09 j 23:34	28°II44'38	33.79233 AU
opposition	-2253 Dec 24 j 13:37	15°II18'41	6°45'41	direct	-2244 Mar 28 j 03:28	27°II32'15	
min. Earth dist.	-2253 Dec 27 j 12:58	15°II14'28	35.80742 AU	max. Earth dist.	-2244 Jul 08 j 16:29	29°II37'28	35.63695 AU
direct	-2252 Mar 15 j 00:51	14°II05'20					
max. Earth dist.	-2252 Jun 24 j 14:46	16°II00'21	37.66487 AU	conjunction	-2244 Jul 12 j 02:01	29°II44'07	10°06'01
				minimum elong	-2244 Jul 12 j 01:40	29°II44'06	10°06'05
conjunction	-2252 Jun 28 j 00:03	16°II06'29	6°37'34		-2244 Jul 20 j 04:42	0°☾	
minimum elong	-2252 Jun 27 j 23:50	16°II06'28	6°37'38	retrograde	-2244 Oct 22 j 06:20	1°☾53'04	
retrograde	-2252 Oct 07 j 22:52	18°II05'40		opposition	-2243 Jan 07 j 23:23	0°☾38'42	10°55'12
opposition	-2252 Dec 25 j 09:12	16°II54'25	7°13'29	min. Earth dist.	-2243 Jan 11 j 01:20	0°☾34'05	33.54736 AU
min. Earth dist.	-2252 Dec 28 j 09:34	16°II50'07	35.54973 AU		-2243 Feb 03 j 23:19	30°RII	
direct	-2251 Mar 16 j 20:32	15°II40'35		direct	-2243 Mar 30 j 05:03	29°II21'18	
max. Earth dist.	-2251 Jun 26 j 13:28	17°II36'48	37.40554 AU		-2243 May 21 j 23:35	0°☾	
				max. Earth dist.	-2243 Jul 10 j 19:06	1°☾27'50	35.38980 AU
conjunction	-2251 Jun 29 j 22:05	17°II42'57	7°03'47				
minimum elong	-2251 Jun 29 j 21:50	17°II42'56	7°03'50	conjunction	-2243 Jul 14 j 05:28	1°☾34'38	10°31'29
retrograde	-2251 Oct 09 j 20:25	19°II43'13		minimum elong	-2243 Jul 14 j 05:07	1°☾34'36	10°31'31
opposition	-2251 Dec 27 j 05:35	18°II31'32	7°41'21	retrograde	-2243 Oct 24 j 10:57	3°☾44'54	
min. Earth dist.	-2251 Dec 30 j 06:09	18°II27'12	35.29291 AU	opposition	-2242 Jan 10 j 01:33	2°☾30'08	11°22'17
direct	-2250 Mar 18 j 18:36	17°II17'14		min. Earth dist.	-2242 Jan 13 j 03:17	2°☾25'30	33.30370 AU
max. Earth dist.	-2250 Jun 28 j 11:05	19°II14'34	37.14746 AU	direct	-2242 Apr 01 j 06:27	1°☾12'16	
				max. Earth dist.	-2242 Jul 12 j 23:27	3°☾20'12	35.14383 AU
conjunction	-2250 Jul 01 j 20:32	19°II20'50	7°30'01				
minimum elong	-2250 Jul 01 j 20:17	19°II20'49	7°30'05	conjunction	-2242 Jul 16 j 09:47	3°☾27'04	10°56'40
retrograde	-2250 Oct 11 j 19:41	21°II22'13		minimum elong	-2242 Jul 16 j 09:24	3°☾27'02	10°56'44
opposition	-2250 Dec 29 j 02:27	20°II10'09	8°09'15	retrograde	-2242 Oct 26 j 14:23	5°☾38'40	
min. Earth dist.	-2249 Jan 01 j 02:45	20°II05'48	35.03788 AU	opposition	-2241 Jan 12 j 04:41	4°☾23'30	11°49'06
direct	-2249 Mar 20 j 14:51	18°II55'23		min. Earth dist.	-2241 Jan 15 j 07:18	4°☾18'46	33.06156 AU
max. Earth dist.	-2249 Jun 30 j 10:23	20°II53'56	36.89115 AU	direct	-2241 Apr 03 j 07:42	3°☾05'08	
				max. Earth dist.	-2241 Jul 15 j 04:46	5°☾14'30	34.89982 AU
conjunction	-2249 Jul 03 j 19:47	21°II00'16	7°56'15				
minimum elong	-2249 Jul 03 j 19:30	21°II00'15	7°56'17	conjunction	-2241 Jul 18 j 14:42	5°☾21'24	11°21'33
retrograde	-2249 Oct 13 j 17:08	23°II02'49		minimum elong	-2241 Jul 18 j 14:20	5°☾21'23	11°21'35
opposition	-2249 Dec 31 j 00:14	21°II50'21	8°37'07	retrograde	-2241 Oct 28 j 20:11	7°☾34'22	
min. Earth dist.	-2248 Jan 03 j 01:15	21°II45'56	34.78494 AU	opposition	-2240 Jan 14 j 08:27	6°☾18'45	12°15'33
direct	-2248 Mar 21 j 10:50	20°II35'09		min. Earth dist.	-2240 Jan 17 j 09:57	6°☾14'04	32.82175 AU
max. Earth dist.	-2248 Jul 01 j 10:29	22°II34'59	36.63711 AU	direct	-2240 Apr 04 j 09:36	4°☾59'54	
				max. Earth dist.	-2240 Jul 16 j 10:00	7°☾10'39	34.65827 AU
conjunction	-2248 Jul 04 j 19:25	22°II41'21	8°22'25				
minimum elong	-2248 Jul 04 j 19:08	22°II41'19	8°22'28	conjunction	-2240 Jul 19 j 20:17	7°☾17'39	11°46'02
retrograde	-2248 Oct 14 j 17:39	24°II45'07		minimum elong	-2240 Jul 19 j 19:54	7°☾17'37	11°46'06
opposition	-2248 Dec 31 j 22:29	23°II32'16	9°04'58	retrograde	-2240 Oct 30 j 01:58	9°☾31'59	
min. Earth dist.	-2247 Jan 03 j 22:39	23°II27'52	34.53426 AU	opposition	-2239 Jan 15 j 13:08	8°☾15'55	12°41'36
direct	-2247 Mar 23 j 07:23	22°II16'37		min. Earth dist.	-2239 Jan 18 j 15:27	8°☾11'09	32.58490 AU
max. Earth dist.	-2247 Jul 03 j 10:10	24°II17'43	36.38497 AU	direct	-2239 Apr 06 j 12:07	6°☾56'34	
				max. Earth dist.	-2239 Jul 18 j 18:00	9°☾08'53	34.42007 AU
conjunction	-2247 Jul 06 j 19:59	24°II24'12	8°48'31				
minimum elong	-2247 Jul 06 j 19:41	24°II24'10	8°48'33	conjunction	-2239 Jul 22 j 02:44	9°☾15'49	12°10'05
retrograde	-2247 Oct 16 j 19:38	26°II29'14		minimum elong	-2239 Jul 22 j 02:21	9°☾15'47	12°10'08
opposition	-2246 Jan 02 j 21:28	25°II16'01	9°32'43	retrograde	-2239 Nov 01 j 09:19	11°☾31'31	
min. Earth dist.	-2246 Jan 05 j 22:55	25°II11'31	34.28554 AU	opposition	-2238 Jan 17 j 18:31	10°☾15'01	13°07'09
direct	-2246 Mar 25 j 03:09	23°II59'56		min. Earth dist.	-2238 Jan 20 j 19:35	10°☾10'17	32.35178 AU
max. Earth dist.	-2246 Jul 05 j 12:23	26°II02'26	36.13450 AU	direct	-2238 Apr 08 j 17:35	8°☾55'10	

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Attention, astronomical year style is used: The year -2238 in astronomical counting style is the year 2239 BCE in historical counting style.

max. Earth dist.	-2238 Jul 21 j 00:44	11° ♁ 08'53	34.18599 AU	minimum elong	-2230 Aug 10 j 23:32	28° ♁ 32'31	15°14'37
					-2230 Sep 21 j 10:30	0° ♁	
conjunction	-2238 Jul 24 j 09:52	11° ♁ 15'55	12°33'36	retrograde	-2230 Nov 21 j 18:03	1° ♁ 00'52	
minimum elong	-2238 Jul 24 j 09:27	11° ♁ 15'53	12°33'40		-2229 Jan 25 j 16:26	30° ♁	
retrograde	-2238 Nov 03 j 18:34	13° ♁ 33'01		opposition	-2229 Feb 06 j 12:41	29° ♁ 40'52	16°22'08
opposition	-2237 Jan 20 j 00:55	12° ♁ 16'04	13°32'07	min. Earth dist.	-2229 Feb 09 j 06:05	29° ♁ 36'25	30.48941 AU
min. Earth dist.	-2237 Jan 23 j 01:53	12° ♁ 11'20	32.12338 AU	direct	-2229 Apr 28 j 00:29	28° ♁ 17'16	
direct	-2237 Apr 10 j 21:50	10° ♁ 55'44			-2229 Jul 21 j 09:46	0° ♁	
max. Earth dist.	-2237 Jul 23 j 10:40	13° ♁ 11'06	33.95691 AU	max. Earth dist.	-2229 Aug 10 j 15:15	0° ♁ 44'48	32.32077 AU
conjunction	-2237 Jul 26 j 17:42	13° ♁ 18'01	12°56'32	conjunction	-2229 Aug 13 j 14:02	0° ♁ 51'29	15°30'15
minimum elong	-2237 Jul 26 j 17:19	13° ♁ 17'59	12°56'35	minimum elong	-2229 Aug 13 j 13:42	0° ♁ 51'27	15°30'17
retrograde	-2237 Nov 06 j 03:20	15° ♁ 36'31		retrograde	-2229 Nov 24 j 10:17	3° ♁ 21'06	
opposition	-2236 Jan 22 j 08:14	14° ♁ 19'09	13°56'26	opposition	-2228 Feb 09 j 03:14	2° ♁ 00'44	16°38'32
min. Earth dist.	-2236 Jan 25 j 08:05	14° ♁ 14'28	31.90017 AU	min. Earth dist.	-2228 Feb 11 j 19:45	1° ♁ 56'20	30.30965 AU
direct	-2236 Apr 12 j 05:03	12° ♁ 58'23		direct	-2228 Apr 29 j 12:49	0° ♁ 36'43	
max. Earth dist.	-2236 Jul 24 j 19:24	15° ♁ 15'13	33.73341 AU	max. Earth dist.	-2228 Aug 12 j 09:00	3° ♁ 05'48	32.14173 AU
conjunction	-2236 Jul 28 j 02:19	15° ♁ 22'11	13°18'48	conjunction	-2228 Aug 15 j 05:04	3° ♁ 12'17	15°44'41
minimum elong	-2236 Jul 28 j 01:55	15° ♁ 22'09	13°18'51	minimum elong	-2228 Aug 15 j 04:44	3° ♁ 12'15	15°44'44
retrograde	-2236 Nov 07 j 15:31	17° ♁ 42'07		retrograde	-2228 Nov 26 j 01:47	5° ♁ 43'09	
opposition	-2235 Jan 23 j 16:10	16° ♁ 24'21	14°20'01	opposition	-2227 Feb 10 j 18:31	4° ♁ 22'24	16°53'34
min. Earth dist.	-2235 Jan 26 j 14:59	16° ♁ 19'41	31.68273 AU	min. Earth dist.	-2227 Feb 13 j 09:31	4° ♁ 18'04	30.13644 AU
direct	-2235 Apr 14 j 12:57	15° ♁ 03'08		direct	-2227 May 02 j 04:06	2° ♁ 58'01	
max. Earth dist.	-2235 Jul 27 j 06:49	17° ♁ 21'37	33.51553 AU	max. Earth dist.	-2227 Aug 15 j 01:28	5° ♁ 28'24	31.96999 AU
conjunction	-2235 Jul 30 j 11:59	17° ♁ 28'30	13°40'19	conjunction	-2227 Aug 17 j 20:36	5° ♁ 34'51	15°57'47
minimum elong	-2235 Jul 30 j 11:35	17° ♁ 28'28	13°40'21	minimum elong	-2227 Aug 17 j 20:18	5° ♁ 34'49	15°57'49
retrograde	-2235 Nov 10 j 01:41	19° ♁ 49'52		retrograde	-2227 Nov 28 j 20:26	8° ♁ 06'56	
opposition	-2234 Jan 26 j 01:18	18° ♁ 31'43	14°42'48	opposition	-2226 Feb 13 j 10:41	6° ♁ 45'48	17°07'07
min. Earth dist.	-2234 Jan 28 j 23:54	18° ♁ 27'03	31.47077 AU	min. Earth dist.	-2226 Feb 15 j 23:39	6° ♁ 41'36	29.97083 AU
direct	-2234 Apr 16 j 21:02	17° ♁ 10'06		direct	-2226 May 04 j 20:09	5° ♁ 21'04	
max. Earth dist.	-2234 Jul 29 j 17:53	19° ♁ 30'07	33.30326 AU	max. Earth dist.	-2226 Aug 17 j 20:45	7° ♁ 52'56	31.80631 AU
conjunction	-2234 Aug 01 j 22:13	19° ♁ 37'01	14°01'02	conjunction	-2226 Aug 20 j 12:45	7° ♁ 59'07	16°09'27
minimum elong	-2234 Aug 01 j 21:49	19° ♁ 36'59	14°01'05	minimum elong	-2226 Aug 20 j 12:29	7° ♁ 59'05	16°09'30
retrograde	-2234 Nov 12 j 13:37	21° ♁ 59'47		retrograde	-2226 Dec 01 j 12:39	10° ♁ 32'22	
opposition	-2233 Jan 28 j 11:14	20° ♁ 41'17	15°04'42	opposition	-2225 Feb 16 j 03:49	9° ♁ 10'54	17°19'06
min. Earth dist.	-2233 Jan 31 j 08:11	20° ♁ 36'42	31.26426 AU	min. Earth dist.	-2225 Feb 18 j 15:21	9° ♁ 06'47	29.81353 AU
direct	-2233 Apr 19 j 06:03	19° ♁ 19'16		direct	-2225 May 07 j 12:33	7° ♁ 45'51	
max. Earth dist.	-2233 Aug 01 j 06:06	21° ♁ 40'51	33.09619 AU	max. Earth dist.	-2225 Aug 20 j 15:23	10° ♁ 19'00	31.65183 AU
conjunction	-2233 Aug 04 j 09:28	21° ♁ 47'43	14°20'53	conjunction	-2225 Aug 23 j 05:24	10° ♁ 25'02	16°19'36
minimum elong	-2233 Aug 04 j 09:05	21° ♁ 47'41	14°20'55	minimum elong	-2225 Aug 23 j 05:09	10° ♁ 25'01	16°19'37
retrograde	-2233 Nov 15 j 01:19	24° ♁ 11'55		retrograde	-2225 Dec 04 j 08:03	12° ♁ 59'24	
opposition	-2232 Jan 30 j 22:16	22° ♁ 53'03	15°25'40	opposition	-2224 Feb 18 j 21:28	11° ♁ 37'38	17°29'23
min. Earth dist.	-2232 Feb 02 j 19:20	22° ♁ 48'26	31.06288 AU	min. Earth dist.	-2224 Feb 21 j 05:53	11° ♁ 33'42	29.66559 AU
direct	-2232 Apr 20 j 14:10	21° ♁ 30'38		direct	-2224 May 09 j 05:45	10° ♁ 12'17	
max. Earth dist.	-2232 Aug 02 j 19:33	23° ♁ 53'47	32.89439 AU	max. Earth dist.	-2224 Aug 22 j 11:37	12° ♁ 46'48	31.50712 AU
conjunction	-2232 Aug 05 j 21:23	24° ♁ 00'35	14°39'48	conjunction	-2224 Aug 24 j 22:44	12° ♁ 52'35	16°28'08
minimum elong	-2232 Aug 05 j 20:59	24° ♁ 00'33	14°39'51	minimum elong	-2224 Aug 24 j 22:31	12° ♁ 52'34	16°28'11
retrograde	-2232 Nov 16 j 14:46	26° ♁ 26'11			-2224 Oct 27 j 01:16	15° ♁	
opposition	-2231 Feb 01 j 10:07	25° ♁ 06'57	15°45'37	retrograde	-2224 Dec 06 j 02:38	15° ♁ 28'02	
min. Earth dist.	-2231 Feb 04 j 05:18	25° ♁ 02'26	30.86650 AU		-2223 Jan 16 j 10:33	15° ♁	
direct	-2231 Apr 23 j 00:37	23° ♁ 44'08		opposition	-2223 Feb 20 j 16:03	14° ♁ 05'59	17°37'55
max. Earth dist.	-2231 Aug 05 j 08:47	26° ♁ 08'44	32.69760 AU	min. Earth dist.	-2223 Feb 22 j 23:03	14° ♁ 02'08	29.52736 AU
conjunction	-2231 Aug 08 j 10:14	26° ♁ 15'33	14°57'43	direct	-2223 May 11 j 22:34	12° ♁ 40'25	
minimum elong	-2231 Aug 08 j 09:53	26° ♁ 15'31	14°57'45		-2223 Aug 18 j 11:46	15° ♁	
retrograde	-2231 Nov 19 j 03:56	28° ♁ 42'32		max. Earth dist.	-2223 Aug 25 j 08:10	15° ♁ 16'10	31.37271 AU
opposition	-2230 Feb 03 j 22:55	27° ♁ 22'55	16°04'28	conjunction	-2223 Aug 27 j 16:32	15° ♁ 21'44	16°34'59
min. Earth dist.	-2230 Feb 06 j 18:06	27° ♁ 18'22	30.67525 AU	minimum elong	-2223 Aug 27 j 16:22	15° ♁ 21'43	16°35'01
direct	-2230 Apr 25 j 10:58	25° ♁ 59'42		retrograde	-2223 Dec 08 j 22:26	17° ♁ 58'12	
max. Earth dist.	-2230 Aug 08 j 00:43	28° ♁ 25'53	32.50627 AU	opposition	-2222 Feb 23 j 11:09	16° ♁ 35'55	17°44'37
conjunction	-2230 Aug 10 j 23:54	28° ♁ 32'33	15°14'34	min. Earth dist.	-2222 Feb 25 j 14:36	16° ♁ 32'19	29.39909 AU
				direct	-2222 May 14 j 17:10	15° ♁ 10'10	

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Attention, astronomical year style is used: The year -2222 in astronomical counting style is the year 2223 BCE in historical counting style.

max. Earth dist.	-2222 Aug 28 j 05:05	17°Ω47'06	31.24846 AU	max. Earth dist.	-2214 Sep 18 j 19:36	8°♄32'51	30.61090 AU
conjunction	-2222 Aug 30 j 10:56	17°Ω52'27	16°40'06	conjunction	-2214 Sep 20 j 01:36	8°♄35'54	16°14'38
minimum elong	-2222 Aug 30 j 10:48	17°Ω52'26	16°40'09	minimum elong	-2214 Sep 20 j 01:46	8°♄35'55	16°14'40
retrograde	-2222 Dec 11 j 17:05	20°Ω29'52		retrograde	-2213 Jan 01 j 15:25	11°♄17'22	
opposition	-2221 Feb 26 j 07:10	19°Ω07'23	17°49'25	opposition	-2213 Mar 19 j 15:42	9°♄53'45	17°15'47
min. Earth dist.	-2221 Feb 28 j 09:10	19°Ω03'53	29.28076 AU	min. Earth dist.	-2213 Mar 20 j 18:43	9°♄51'51	28.67792 AU
direct	-2221 May 17 j 10:35	17°Ω41'30		direct	-2213 Jun 07 j 13:18	8°♄27'19	
max. Earth dist.	-2221 Aug 31 j 03:16	20°Ω19'36	31.13442 AU				
conjunction	-2221 Sep 02 j 05:39	20°Ω24'38	16°43'27	conjunction	-2213 Sep 22 j 21:41	11°♄12'59	16°02'52
minimum elong	-2221 Sep 02 j 05:33	20°Ω24'37	16°43'28	minimum elong	-2213 Sep 22 j 21:52	11°♄13'00	16°02'52
retrograde	-2221 Dec 14 j 13:37	23°Ω02'54		max. Earth dist.	-2213 Sep 21 j 19:58	11°♄10'22	30.57862 AU
opposition	-2220 Feb 29 j 03:41	21°Ω40'16	17°52'18	retrograde	-2212 Jan 04 j 11:56	13°♄54'28	
min. Earth dist.	-2220 Mar 02 j 02:20	21°Ω36'59	29.17202 AU	opposition	-2212 Mar 21 j 14:53	12°♄30'47	17°02'16
direct	-2220 May 19 j 06:07	20°Ω14'15		min. Earth dist.	-2212 Mar 22 j 15:20	12°♄29'03	28.64953 AU
max. Earth dist.	-2220 Sep 02 j 00:33	22°Ω53'17	31.03009 AU	direct	-2212 Jun 09 j 12:43	11°♄04'25	
conjunction	-2220 Sep 04 j 00:56	22°Ω58'08	16°44'58	conjunction	-2212 Sep 24 j 17:38	13°♄49'51	15°49'09
minimum elong	-2220 Sep 04 j 00:52	22°Ω58'08	16°45'01	minimum elong	-2212 Sep 24 j 17:54	13°♄49'52	15°49'10
retrograde	-2220 Dec 16 j 09:49	25°Ω37'12		max. Earth dist.	-2212 Sep 23 j 19:12	13°♄47'33	30.55873 AU
opposition	-2219 Mar 03 j 00:42	24°Ω14'23	17°53'12	retrograde	-2211 Jan 06 j 09:39	16°♄31'14	
min. Earth dist.	-2219 Mar 04 j 21:41	24°Ω11'14	29.07273 AU	opposition	-2211 Mar 24 j 13:45	15°♄07'32	16°46'40
direct	-2219 May 22 j 00:11	22°Ω48'16		min. Earth dist.	-2211 Mar 25 j 09:34	15°♄06'09	28.63337 AU
max. Earth dist.	-2219 Sep 05 j 00:03	25°Ω28'18	30.93548 AU	direct	-2211 Jun 12 j 12:50	13°♄41'17	
conjunction	-2219 Sep 06 j 20:41	25°Ω32'48	16°44'39	conjunction	-2211 Sep 27 j 13:30	16°♄26'23	15°33'33
minimum elong	-2219 Sep 06 j 20:39	25°Ω32'48	16°44'40	minimum elong	-2211 Sep 27 j 13:46	16°♄26'25	15°33'33
retrograde	-2219 Dec 19 j 05:27	28°Ω12'32		max. Earth dist.	-2211 Sep 26 j 19:00	16°♄24'30	30.55142 AU
opposition	-2218 Mar 05 j 22:26	26°Ω49'35	17°52'06	retrograde	-2210 Jan 09 j 05:34	19°♄07'38	
min. Earth dist.	-2218 Mar 07 j 16:23	26°Ω46'37	28.98262 AU	opposition	-2210 Mar 27 j 12:53	17°♄43'58	16°29'02
direct	-2218 May 24 j 22:20	25°Ω23'22		min. Earth dist.	-2210 Mar 28 j 06:02	17°♄42'46	28.62965 AU
max. Earth dist.	-2218 Sep 07 j 21:40	28°Ω04'04	30.85042 AU	direct	-2210 Jun 15 j 10:35	16°♄17'52	
conjunction	-2218 Sep 09 j 16:31	28°Ω08'25	16°42'28	conjunction	-2210 Sep 30 j 08:59	19°♄02'33	15°16'06
minimum elong	-2218 Sep 09 j 16:32	28°Ω08'25	16°42'30	minimum elong	-2210 Sep 30 j 09:18	19°♄02'35	15°16'07
retrograde	-2218 Dec 22 j 03:05	0°♄48'44		max. Earth dist.	-2210 Sep 29 j 18:28	19°♄01'04	30.55687 AU
opposition	-2217 Feb 15 j 21:18	30°♄00'00		retrograde	-2209 Jan 12 j 02:51	21°♄43'33	
min. Earth dist.	-2217 Mar 08 j 20:36	29°Ω25'37	17°48'58	opposition	-2209 Mar 30 j 11:47	20°♄19'58	16°09'27
direct	-2217 Mar 10 j 12:01	29°Ω22'50	28.90191 AU	min. Earth dist.	-2209 Mar 31 j 00:26	20°♄19'05	28.63813 AU
max. Earth dist.	-2217 Sep 10 j 21:57	0°♄40'49	30.77512 AU	direct	-2209 Jun 18 j 10:32	18°♄54'04	
conjunction	-2217 Sep 12 j 12:48	0°♄44'45	16°38'23	conjunction	-2209 Oct 03 j 04:18	21°♄38'14	14°56'52
minimum elong	-2217 Sep 12 j 12:50	0°♄44'45	16°38'24	minimum elong	-2209 Oct 03 j 04:37	21°♄38'16	14°56'53
retrograde	-2217 Dec 24 j 23:09	3°♄25'31		max. Earth dist.	-2209 Oct 02 j 17:08	21°♄37'06	30.57447 AU
opposition	-2216 Mar 10 j 19:02	2°♄02'16	17°43'47	retrograde	-2208 Jan 14 j 23:01	24°♄18'55	
min. Earth dist.	-2216 Mar 12 j 07:52	1°♄59'40	28.83060 AU	opposition	-2208 Apr 01 j 10:25	22°♄55'27	15°47'57
direct	-2216 May 29 j 16:14	0°♄35'55		min. Earth dist.	-2208 Apr 01 j 20:17	22°♄54'45	28.65849 AU
max. Earth dist.	-2216 Sep 12 j 20:08	3°♄17'50	30.70981 AU	direct	-2208 Jun 20 j 07:30	21°♄29'47	
conjunction	-2216 Sep 14 j 09:01	3°♄21'36	16°32'24	conjunction	-2208 Oct 04 j 23:23	24°♄13'21	14°35'56
minimum elong	-2216 Sep 14 j 09:07	3°♄21'36	16°32'26	minimum elong	-2208 Oct 04 j 23:45	24°♄13'23	14°35'56
retrograde	-2216 Dec 26 j 21:20	6°♄02'43		max. Earth dist.	-2208 Oct 04 j 16:21	24°♄12'38	30.60390 AU
opposition	-2215 Mar 13 j 17:42	4°♄39'19	17°36'32	retrograde	-2207 Jan 16 j 17:45	26°♄53'37	
min. Earth dist.	-2215 Mar 15 j 03:18	4°♄36'57	28.76916 AU	opposition	-2207 Apr 04 j 08:55	25°♄30'17	15°24'40
direct	-2215 Jun 01 j 15:13	3°♄12'55		min. Earth dist.	-2207 Apr 04 j 14:55	25°♄29'52	28.68995 AU
max. Earth dist.	-2215 Sep 15 j 20:45	5°♄55'23	30.65482 AU	direct	-2207 Jun 23 j 07:05	24°♄04'54	
conjunction	-2215 Sep 17 j 05:24	5°♄58'43	16°24'29	conjunction	-2207 Oct 07 j 17:57	26°♄47'45	14°13'23
minimum elong	-2215 Sep 17 j 05:32	5°♄58'44	16°24'30	minimum elong	-2207 Oct 07 j 18:18	26°♄47'47	14°13'23
retrograde	-2215 Dec 29 j 17:08	8°♄40'03		max. Earth dist.	-2207 Oct 07 j 13:31	26°♄47'18	30.64431 AU
opposition	-2214 Mar 16 j 16:43	7°♄16'32	17°27'13	retrograde	-2206 Jan 19 j 13:17	29°♄27'31	
min. Earth dist.	-2214 Mar 17 j 23:55	7°♄14'20	28.71796 AU	opposition	-2206 Apr 07 j 07:13	28°♄04'21	14°59'41
direct	-2214 Jun 04 j 14:19	5°♄50'07		min. Earth dist.	-2206 Apr 07 j 10:01	28°♄04'09	28.73220 AU
				direct	-2206 Jun 26 j 03:30	26°♄39'15	
				conjunction	-2206 Oct 10 j 12:19	29°♄21'17	13°49'18
				minimum elong	-2206 Oct 10 j 12:43	29°♄21'20	13°49'18

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Attention, astronomical year style is used: The year -2206 in astronomical counting style is the year 2207 BCE in historical counting style.

max. Earth dist.	-2206 Oct 10 j 12:11	29° \mathbb{M} 21'16	30.69540 AU	max. Earth dist.	-2198 Oct 30 j 18:33	19° \mathbb{L} 02'33	31.46126 AU
	-2206 Oct 26 j 16:28	0° \mathbb{L}		retrograde	-2197 Feb 10 j 15:29	21° \mathbb{L} 32'02	
retrograde	-2205 Jan 22 j 07:10	2° \mathbb{L} 00'28		opposition	-2197 Apr 30 j 15:51	20° \mathbb{L} 10'37	10°14'45
opposition	-2205 Apr 10 j 05:08	0° \mathbb{L} 37'28	14°33'05	min. Earth dist.	-2197 Apr 29 j 13:22	20° \mathbb{L} 12'23	29.56015 AU
min. Earth dist.	-2205 Apr 10 j 04:53	0° \mathbb{L} 37'29	28.78459 AU	direct	-2197 Jul 19 j 16:03	18° \mathbb{L} 48'27	
	-2205 May 03 j 13:47	30° \mathbb{R} \mathbb{M}					
direct	-2205 Jun 29 j 01:30	29° \mathbb{M} 12'40		conjunction	-2197 Nov 01 j 05:59	21° \mathbb{L} 19'59	9°18'57
	-2205 Aug 21 j 14:44	0° \mathbb{L}		minimum elong	-2197 Nov 01 j 06:20	21° \mathbb{L} 20'01	9°18'57
				max. Earth dist.	-2197 Nov 02 j 10:45	21° \mathbb{L} 22'44	31.60288 AU
conjunction	-2205 Oct 13 j 06:01	1° \mathbb{L} 53'47	13°23'47	retrograde	-2196 Feb 13 j 02:50	23° \mathbb{L} 50'48	
minimum elong	-2205 Oct 13 j 06:24	1° \mathbb{L} 53'50	13°23'47	min. Earth dist.	-2196 May 01 j 02:19	22° \mathbb{L} 31'40	29.70290 AU
max. Earth dist.	-2205 Oct 13 j 08:04	1° \mathbb{L} 54'00	30.75656 AU	opposition	-2196 May 02 j 08:04	22° \mathbb{L} 29'41	9°38'17
retrograde	-2204 Jan 25 j 01:37	4° \mathbb{L} 32'19		direct	-2196 Jul 21 j 09:55	21° \mathbb{L} 07'56	
opposition	-2204 Apr 12 j 02:33	3° \mathbb{L} 09'28	14°04'59				
min. Earth dist.	-2204 Apr 11 j 22:41	3° \mathbb{L} 09'44	28.84688 AU	conjunction	-2196 Nov 02 j 17:45	23° \mathbb{L} 38'08	8°44'41
direct	-2204 Jun 30 j 22:23	1° \mathbb{L} 44'57		minimum elong	-2196 Nov 02 j 18:06	23° \mathbb{L} 38'10	8°44'39
				max. Earth dist.	-2196 Nov 04 j 00:41	23° \mathbb{L} 41'04	31.75367 AU
conjunction	-2204 Oct 14 j 23:27	4° \mathbb{L} 25'06	12°56'55	retrograde	-2195 Feb 14 j 14:53	26° \mathbb{L} 07'50	
minimum elong	-2204 Oct 14 j 23:52	4° \mathbb{L} 25'09	12°56'54	opposition	-2195 May 04 j 23:37	24° \mathbb{L} 47'03	9°01'16
max. Earth dist.	-2204 Oct 15 j 05:42	4° \mathbb{L} 25'44	30.82744 AU	min. Earth dist.	-2195 May 03 j 14:47	24° \mathbb{L} 49'13	29.85483 AU
retrograde	-2203 Jan 26 j 17:38	7° \mathbb{L} 02'51		direct	-2195 Jul 24 j 00:57	23° \mathbb{L} 25'44	
opposition	-2203 Apr 14 j 23:28	5° \mathbb{L} 40'11	13°35'30				
min. Earth dist.	-2203 Apr 14 j 17:11	5° \mathbb{L} 40'37	28.91860 AU	conjunction	-2195 Nov 05 j 05:04	25° \mathbb{L} 54'34	8°09'56
direct	-2203 Jul 03 j 19:37	4° \mathbb{L} 15'58		minimum elong	-2195 Nov 05 j 05:23	25° \mathbb{L} 54'36	8°09'54
				max. Earth dist.	-2195 Nov 06 j 15:46	25° \mathbb{L} 57'50	31.91307 AU
conjunction	-2203 Oct 17 j 16:08	6° \mathbb{L} 55'03	12°28'49	retrograde	-2194 Feb 17 j 00:46	28° \mathbb{L} 23'09	
minimum elong	-2203 Oct 17 j 16:31	6° \mathbb{L} 55'05	12°28'49	min. Earth dist.	-2194 May 06 j 03:33	27° \mathbb{L} 04'59	30.01499 AU
max. Earth dist.	-2203 Oct 18 j 00:30	6° \mathbb{L} 55'53	30.90795 AU	opposition	-2194 May 07 j 14:35	27° \mathbb{L} 02'41	8°23'49
retrograde	-2202 Jan 29 j 11:34	9° \mathbb{L} 31'57		direct	-2194 Jul 26 j 16:50	25° \mathbb{L} 41'48	
opposition	-2202 Apr 17 j 19:51	8° \mathbb{L} 09'28	13°04'43				
min. Earth dist.	-2202 Apr 17 j 09:24	8° \mathbb{L} 10'11	29.00001 AU	conjunction	-2194 Nov 07 j 15:28	28° \mathbb{L} 09'16	7°34'48
direct	-2202 Jul 06 j 15:16	6° \mathbb{L} 45'32		minimum elong	-2194 Nov 07 j 15:47	28° \mathbb{L} 09'17	7°34'45
				max. Earth dist.	-2194 Nov 09 j 03:46	28° \mathbb{L} 12'39	32.08013 AU
conjunction	-2202 Oct 20 j 08:10	9° \mathbb{L} 23'27	11°59'33		-2193 Jan 02 j 11:32	0° \mathbb{M}	
minimum elong	-2202 Oct 20 j 08:35	9° \mathbb{L} 23'30	11°59'32	retrograde	-2193 Feb 19 j 12:12	0° \mathbb{M} 36'43	
max. Earth dist.	-2202 Oct 20 j 20:40	9° \mathbb{L} 24'41	30.99810 AU		-2193 Apr 10 j 22:44	30° \mathbb{R} \mathbb{L}	
retrograde	-2201 Feb 01 j 03:00	11° \mathbb{L} 59'28		min. Earth dist.	-2193 May 08 j 14:17	29° \mathbb{L} 19'05	30.18272 AU
opposition	-2201 Apr 20 j 15:44	10° \mathbb{L} 37'08	12°32'44	opposition	-2193 May 10 j 04:44	29° \mathbb{L} 16'34	7°46'01
min. Earth dist.	-2201 Apr 20 j 03:05	10° \mathbb{L} 38'00	29.09119 AU	direct	-2193 Jul 29 j 06:26	27° \mathbb{L} 56'07	
direct	-2201 Jul 09 j 12:17	9° \mathbb{L} 13'31			-2193 Oct 31 j 01:24	0° \mathbb{M}	
conjunction	-2201 Oct 22 j 23:30	11° \mathbb{L} 50'13	11°29'12	conjunction	-2193 Nov 10 j 01:29	0° \mathbb{M} 22'12	6°59'23
minimum elong	-2201 Oct 22 j 23:53	11° \mathbb{L} 50'15	11°29'12	minimum elong	-2193 Nov 10 j 01:46	0° \mathbb{M} 22'14	6°59'21
max. Earth dist.	-2201 Oct 23 j 14:34	11° \mathbb{L} 51'42	31.09829 AU	max. Earth dist.	-2193 Nov 11 j 17:06	0° \mathbb{M} 25'53	32.25405 AU
retrograde	-2200 Feb 03 j 19:44	14° \mathbb{L} 25'15		retrograde	-2192 Feb 21 j 20:25	2° \mathbb{M} 48'29	
opposition	-2200 Apr 22 j 10:35	13° \mathbb{L} 03'07	11°59'38	min. Earth dist.	-2192 May 10 j 02:18	1° \mathbb{M} 31'15	30.35710 AU
min. Earth dist.	-2200 Apr 21 j 17:38	13° \mathbb{L} 04'15	29.19259 AU	opposition	-2192 May 11 j 18:04	1° \mathbb{M} 28'40	7°07'59
direct	-2200 Jul 11 j 08:46	11° \mathbb{L} 39'48		direct	-2192 Jul 30 j 20:05	0° \mathbb{M} 08'39	
conjunction	-2200 Oct 24 j 14:12	14° \mathbb{L} 15'16	10°57'53	conjunction	-2192 Nov 11 j 10:42	2° \mathbb{M} 33'20	6°23'46
minimum elong	-2200 Oct 24 j 14:37	14° \mathbb{L} 15'18	10°57'51	minimum elong	-2192 Nov 11 j 10:58	2° \mathbb{M} 33'22	6°23'43
max. Earth dist.	-2200 Oct 25 j 09:03	14° \mathbb{L} 17'06	31.20871 AU	max. Earth dist.	-2192 Nov 13 j 03:35	2° \mathbb{M} 37'07	32.43419 AU
retrograde	-2199 Feb 05 j 09:59	16° \mathbb{L} 49'17		retrograde	-2191 Feb 23 j 06:34	4° \mathbb{M} 58'27	
min. Earth dist.	-2199 Apr 24 j 09:44	15° \mathbb{L} 28'40	29.30455 AU	min. Earth dist.	-2191 May 12 j 11:37	3° \mathbb{M} 41'44	30.53761 AU
opposition	-2199 Apr 25 j 05:07	15° \mathbb{L} 27'21	11°25'32	opposition	-2191 May 14 j 06:41	3° \mathbb{M} 38'57	6°29'48
direct	-2199 Jul 14 j 02:46	14° \mathbb{L} 04'24		direct	-2191 Aug 02 j 08:22	2° \mathbb{M} 19'20	
conjunction	-2199 Oct 27 j 04:06	16° \mathbb{L} 38'34	10°25'40	conjunction	-2191 Nov 13 j 19:09	4° \mathbb{M} 42'38	5°48'02
minimum elong	-2199 Oct 27 j 04:29	16° \mathbb{L} 38'36	10°25'39	minimum elong	-2191 Nov 13 j 19:23	4° \mathbb{M} 42'39	5°48'00
max. Earth dist.	-2199 Oct 28 j 02:13	16° \mathbb{L} 40'42	31.32979 AU	max. Earth dist.	-2191 Nov 15 j 14:47	4° \mathbb{M} 46'37	32.61993 AU
retrograde	-2198 Feb 08 j 00:43	19° \mathbb{L} 11'32		retrograde	-2190 Feb 25 j 14:46	7° \mathbb{M} 06'34	
opposition	-2198 Apr 27 j 22:49	17° \mathbb{L} 49'51	10°50'32	min. Earth dist.	-2190 May 14 j 22:28	5° \mathbb{M} 50'12	30.72389 AU
min. Earth dist.	-2198 Apr 26 j 23:09	17° \mathbb{L} 51'26	29.42708 AU	opposition	-2190 May 16 j 18:44	5° \mathbb{M} 47'21	5°51'33
direct	-2198 Jul 16 j 22:52	16° \mathbb{L} 27'16		direct	-2190 Aug 04 j 19:58	4° \mathbb{M} 28'08	
conjunction	-2198 Oct 29 j 17:22	19° \mathbb{L} 00'08	9°52'39	conjunction	-2190 Nov 16 j 02:58	6° \mathbb{M} 50'01	5°12'15
minimum elong	-2198 Oct 29 j 17:45	19° \mathbb{L} 00'10	9°52'38	minimum elong	-2190 Nov 16 j 03:11	6° \mathbb{M} 50'03	5°12'13

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Attention, astronomical year style is used: The year -2190 in astronomical counting style is the year 2191 BCE in historical counting style.

max. Earth dist.	-2190 Nov 18 j 00:27	6°M.54'09	32.81125 AU	conjunction	-2182 Dec 01 j 15:07	22°M.44'10	0°31'37
retrograde	-2189 Feb 27 j 23:10	9°M.12'45		minimum elong	-2182 Dec 01 j 15:08	22°M.44'10	0°31'35
min. Earth dist.	-2189 May 17 j 06:27	7°M.56'51	30.91584 AU	max. Earth dist.	-2182 Dec 04 j 04:55	22°M.49'25	34.54806 AU
opposition	-2189 May 19 j 05:39	7°M.53'50	5°13'20	retrograde	-2181 Mar 15 j 10:50	24°M.57'48	
direct	-2189 Aug 07 j 09:16	6°M.35'00		min. Earth dist.	-2181 Jun 02 j 03:39	23°M.45'23	32.66605 AU
				opposition	-2181 Jun 04 j 18:32	23°M.41'33	0°15'29
conjunction	-2189 Nov 18 j 09:52	8°M.55'30	4°36'29	direct	-2181 Aug 23 j 22:58	22°M.26'04	
minimum elong	-2189 Nov 18 j 10:03	8°M.55'31	4°36'28	desc. node	-2181 Nov 11 j 16:04	23°M.52'31	
max. Earth dist.	-2189 Nov 20 j 09:24	8°M.59'46	33.00799 AU				
retrograde	-2188 Mar 01 j 07:24	11°M.17'01		conjunction	-2181 Dec 03 j 16:57	24°M.36'15	0°-2'-3
min. Earth dist.	-2188 May 18 j 14:56	10°M.01'30	31.11376 AU	minimum elong	-2181 Dec 03 j 16:57	24°M.36'15	0°02'06
opposition	-2188 May 20 j 15:58	9°M.58'23	4°35'10	behind sun begin	-2181 Dec 03 j 10:36	24°M.35'44	
direct	-2188 Aug 08 j 19:53	8°M.39'56		behind sun end	-2181 Dec 03 j 23:19	24°M.36'45	
				max. Earth dist.	-2181 Dec 06 j 08:17	24°M.41'35	34.78634 AU
conjunction	-2188 Nov 19 j 16:05	10°M.59'04	4°00'49	retrograde	-2180 Mar 16 j 13:01	26°M.48'48	
minimum elong	-2188 Nov 19 j 16:15	10°M.59'04	4°00'46	min. Earth dist.	-2180 Jun 03 j 06:23	25°M.36'49	32.90551 AU
max. Earth dist.	-2188 Nov 21 j 18:18	11°M.03'32	33.21065 AU	opposition	-2180 Jun 05 j 22:55	25°M.32'55	0°-19'-55
retrograde	-2187 Mar 03 j 11:52	13°M.19'23		direct	-2180 Aug 25 j 05:37	24°M.17'50	
min. Earth dist.	-2187 May 20 j 21:59	12°M.04'18	31.31781 AU				
opposition	-2187 May 23 j 01:21	12°M.01'03	3°57'10	conjunction	-2180 Dec 04 j 18:04	26°M.26'50	0°-35'-9
direct	-2187 Aug 11 j 07:24	10°M.43'00		minimum elong	-2180 Dec 04 j 18:03	26°M.26'50	0°35'13
				max. Earth dist.	-2180 Dec 07 j 09:59	26°M.32'10	35.02682 AU
conjunction	-2187 Nov 21 j 21:30	13°M.00'45	3°25'17	retrograde	-2179 Mar 18 j 15:55	28°M.38'19	
minimum elong	-2187 Nov 21 j 21:38	13°M.00'46	3°25'15	min. Earth dist.	-2179 Jun 05 j 08:56	27°M.26'44	33.14728 AU
max. Earth dist.	-2187 Nov 24 j 01:09	13°M.05'20	33.41940 AU	opposition	-2179 Jun 08 j 02:49	27°M.22'45	0°-54'-49
	-2186 Jan 28 j 12:49	15°M.		direct	-2179 Aug 27 j 09:44	26°M.08'04	
retrograde	-2186 Mar 05 j 17:12	15°M.19'55					
	-2186 Apr 12 j 00:47	15°R.M.		conjunction	-2179 Dec 06 j 18:51	28°M.15'53	-1°-7'-48
min. Earth dist.	-2186 May 23 j 04:02	14°M.05'18	31.52850 AU	minimum elong	-2179 Dec 06 j 18:49	28°M.15'53	1°07'51
opposition	-2186 May 25 j 10:06	14°M.01'54	3°19'22	max. Earth dist.	-2179 Dec 09 j 12:40	28°M.21'21	35.26915 AU
direct	-2186 Aug 13 j 16:25	12°M.44'15			-2178 Feb 05 j 11:46	0°Z	
	-2186 Nov 23 j 18:34	15°M.		retrograde	-2178 Mar 20 j 14:47	0°Z26'20	
					-2178 May 04 j 07:21	30°R.M.	
conjunction	-2186 Nov 24 j 02:20	15°M.00'41	2°49'56	min. Earth dist.	-2178 Jun 07 j 11:41	29°M.15'03	33.39068 AU
minimum elong	-2186 Nov 24 j 02:27	15°M.00'42	2°49'54	opposition	-2178 Jun 10 j 06:01	29°M.11'04	-1°-29'-9
max. Earth dist.	-2186 Nov 26 j 09:13	15°M.05'30	33.63446 AU	direct	-2178 Aug 29 j 14:49	27°M.56'45	
retrograde	-2185 Mar 07 j 20:01	17°M.18'41			-2178 Dec 07 j 01:40	0°Z	
min. Earth dist.	-2185 May 25 j 10:29	16°M.04'29	31.74543 AU				
opposition	-2185 May 27 j 18:03	16°M.01'00	2°41'51	conjunction	-2178 Dec 08 j 18:51	0°Z03'24	-1°-39'-57
	-2185 Jul 13 j 12:54	15°R.M.		minimum elong	-2178 Dec 08 j 18:48	0°Z03'23	1°40'00
direct	-2185 Aug 16 j 01:57	14°M.43'47		max. Earth dist.	-2178 Dec 11 j 12:40	0°Z08'49	35.51286 AU
	-2185 Sep 17 j 12:49	15°M.		retrograde	-2177 Mar 22 j 13:48	2°Z12'47	
				min. Earth dist.	-2177 Jun 09 j 12:17	1°Z01'54	33.63566 AU
conjunction	-2185 Nov 26 j 06:27	16°M.58'55	2°14'51	opposition	-2177 Jun 12 j 08:33	0°Z57'49	-2°-2'-53
minimum elong	-2185 Nov 26 j 06:32	16°M.58'55	2°14'49		-2177 Jul 28 j 12:27	30°R.M.	
max. Earth dist.	-2185 Nov 28 j 14:21	17°M.03'47	33.85544 AU	direct	-2177 Aug 31 j 18:13	29°M.43'50	
retrograde	-2184 Mar 09 j 00:41	19°M.15'48			-2177 Oct 03 j 23:38	0°Z	
min. Earth dist.	-2184 May 26 j 14:24	18°M.02'07	31.96835 AU				
opposition	-2184 May 29 j 01:02	17°M.58'28	2°04'38	conjunction	-2177 Dec 10 j 18:25	1°Z49'19	-2°-11'-33
direct	-2184 Aug 17 j 08:34	16°M.41'41		minimum elong	-2177 Dec 10 j 18:20	1°Z49'19	2°11'37
				max. Earth dist.	-2177 Dec 13 j 14:18	1°Z54'52	35.75790 AU
conjunction	-2184 Nov 27 j 10:00	18°M.55'32	1°40'05	retrograde	-2176 Mar 23 j 11:07	3°Z57'40	
minimum elong	-2184 Nov 27 j 10:04	18°M.55'32	1°40'02	min. Earth dist.	-2176 Jun 10 j 14:04	2°Z47'02	33.88227 AU
max. Earth dist.	-2184 Nov 29 j 20:47	19°M.00'37	34.08182 AU	opposition	-2176 Jun 13 j 10:20	2°Z42'59	-2°-36'-2
retrograde	-2183 Mar 11 j 03:16	21°M.11'19		direct	-2176 Sep 01 j 21:19	1°Z29'20	
min. Earth dist.	-2183 May 28 j 20:08	19°M.58'02	32.19658 AU				
opposition	-2183 May 31 j 07:38	19°M.54'21	1°27'49	conjunction	-2176 Dec 11 j 17:17	3°Z33'40	-2°-42'-36
direct	-2183 Aug 19 j 14:41	18°M.38'00		minimum elong	-2176 Dec 11 j 17:11	3°Z33'40	2°42'40
				max. Earth dist.	-2176 Dec 14 j 13:33	3°Z39'12	36.00474 AU
conjunction	-2183 Nov 29 j 12:47	20°M.50'36	1°05'39	retrograde	-2175 Mar 25 j 10:03	5°Z40'59	
minimum elong	-2183 Nov 29 j 12:49	20°M.50'37	1°05'37	min. Earth dist.	-2175 Jun 12 j 13:02	4°Z30'45	34.13102 AU
max. Earth dist.	-2183 Dec 02 j 00:40	20°M.55'44	34.31302 AU	opposition	-2175 Jun 15 j 11:31	4°Z26'35	-3°-8'-32
retrograde	-2182 Mar 13 j 07:38	23°M.05'19		direct	-2175 Sep 03 j 22:24	3°Z13'16	
min. Earth dist.	-2182 May 30 j 23:15	21°M.52'31	32.42939 AU				
opposition	-2182 Jun 02 j 13:25	21°M.48'42	0°51'25	conjunction	-2175 Dec 13 j 15:28	5°Z16'30	-3°-13'-5
direct	-2182 Aug 21 j 19:17	20°M.32'47		minimum elong	-2175 Dec 13 j 15:22	5°Z16'29	3°13'09
				max. Earth dist.	-2175 Dec 16 j 13:21	5°Z22'07	36.25364 AU

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Attention, astronomical year style is used: The year -2174 in astronomical counting style is the year 2175 BCE in historical counting style.

retrograde	-2174 Mar 27 j 09:00	7°♂22'49		direct	-2166 Sep 19 j 07:19	17°♂52'03	
min. Earth dist.	-2174 Jun 14 j 13:21	6°♂12'52	34.38230 AU				
opposition	-2174 Jun 17 j 12:15	6°♂08'42	-3°-40'-24	conjunction	-2166 Dec 28 j 03:40	19°♂46'48	-7°-19'-42
direct	-2174 Sep 05 j 22:24	4°♂55'43		minimum elong	-2166 Dec 28 j 03:28	19°♂46'47	7°19'45
				max. Earth dist.	-2166 Dec 31 j 07:20	19°♂52'30	38.55777 AU
conjunction	-2174 Dec 15 j 13:22	6°♂57'53	-3°-42'-57	retrograde	-2165 Apr 11 j 00:45	21°♂45'21	
minimum elong	-2174 Dec 15 j 13:15	6°♂57'52	3°43'01	min. Earth dist.	-2165 Jun 29 j 12:25	20°♂38'22	36.70242 AU
max. Earth dist.	-2174 Dec 18 j 12:35	7°♂03'34	36.50508 AU	opposition	-2165 Jul 02 j 17:22	20°♂34'03	-7°-56'-43
retrograde	-2173 Mar 29 j 07:31	9°♂03'14		direct	-2165 Sep 21 j 02:54	19°♂24'13	
min. Earth dist.	-2173 Jun 16 j 11:39	7°♂53'39	34.63605 AU				
opposition	-2173 Jun 19 j 12:03	7°♂49'25	-4°-11'-36	conjunction	-2165 Dec 29 j 21:45	21°♂18'06	-7°-44'00
direct	-2173 Sep 07 j 22:34	6°♂36'47		minimum elong	-2165 Dec 29 j 21:33	21°♂18'05	7°44'05
				max. Earth dist.	-2164 Jan 02 j 02:38	21°♂23'51	38.81089 AU
conjunction	-2173 Dec 17 j 10:36	8°♂37'55	-4°-12'-14	retrograde	-2164 Apr 11 j 15:37	23°♂15'50	
minimum elong	-2173 Dec 17 j 10:28	8°♂37'55	4°12'18	min. Earth dist.	-2164 Jun 30 j 08:31	22°♂09'04	36.95674 AU
max. Earth dist.	-2173 Dec 20 j 10:23	8°♂43'36	36.75879 AU	opposition	-2164 Jul 03 j 12:49	22°♂04'47	-8°-21'-49
retrograde	-2172 Mar 30 j 06:17	10°♂42'20		direct	-2164 Sep 22 j 01:39	20°♂55'13	
min. Earth dist.	-2172 Jun 17 j 09:49	9°♂33'07	34.89227 AU				
opposition	-2172 Jun 20 j 11:31	9°♂28'50	-4°-42'-7	conjunction	-2164 Dec 30 j 15:06	22°♂48'16	-8°-7'-41
direct	-2172 Sep 08 j 20:55	8°♂16'34		minimum elong	-2164 Dec 30 j 14:54	22°♂48'15	8°07'44
				max. Earth dist.	-2163 Jan 02 j 19:14	22°♂53'56	39.06265 AU
conjunction	-2172 Dec 18 j 07:23	10°♂16'43	-4°-40'-53	retrograde	-2163 Apr 13 j 08:14	24°♂45'12	
minimum elong	-2172 Dec 18 j 07:14	10°♂16'42	4°40'57	min. Earth dist.	-2163 Jul 02 j 02:12	23°♂38'44	37.21008 AU
max. Earth dist.	-2172 Dec 21 j 09:08	10°♂22'31	37.01463 AU	opposition	-2163 Jul 05 j 07:48	23°♂34'24	-8°-46'-15
retrograde	-2171 Apr 01 j 01:04	12°♂20'14		direct	-2163 Sep 23 j 21:45	22°♂25'06	
min. Earth dist.	-2171 Jun 19 j 08:19	11°♂11'21	35.15031 AU				
opposition	-2171 Jun 22 j 10:26	11°♂07'04	-5°-11'-58	conjunction	-2162 Jan 01 j 08:14	24°♂17'18	-8°-30'-44
direct	-2171 Sep 10 j 21:58	9°♂55'10		minimum elong	-2162 Jan 01 j 08:01	24°♂17'17	8°30'49
				max. Earth dist.	-2162 Jan 04 j 13:32	24°♂23'01	39.31355 AU
conjunction	-2171 Dec 20 j 03:41	11°♂54'21	-5°-8'-55	retrograde	-2162 Apr 15 j 00:13	26°♂13'29	
minimum elong	-2171 Dec 20 j 03:32	11°♂54'21	5°08'59	min. Earth dist.	-2162 Jul 03 j 21:31	25°♂07'11	37.46292 AU
max. Earth dist.	-2171 Dec 23 j 05:18	12°♂00'06	37.27202 AU	opposition	-2162 Jul 07 j 02:21	25°♂02'55	-9°-10'00
retrograde	-2170 Apr 02 j 21:17	13°♂57'00		direct	-2162 Sep 25 j 17:07	23°♂53'52	
min. Earth dist.	-2170 Jun 21 j 05:00	12°♂48'32	35.40984 AU				
opposition	-2170 Jun 24 j 08:47	12°♂44'10	-5°-41'-7	conjunction	-2161 Jan 03 j 01:00	25°♂45'16	-8°-53'-9
direct	-2170 Sep 12 j 20:47	11°♂32'39		minimum elong	-2161 Jan 03 j 00:48	25°♂45'15	8°53'13
				max. Earth dist.	-2161 Jan 06 j 06:28	25°♂50'58	39.56416 AU
conjunction	-2170 Dec 21 j 23:39	13°♂30'55	-5°-36'-19	retrograde	-2161 Apr 16 j 17:13	27°♂40'42	
minimum elong	-2170 Dec 21 j 23:29	13°♂30'54	5°36'23	min. Earth dist.	-2161 Jul 05 j 14:19	26°♂34'42	37.71544 AU
max. Earth dist.	-2170 Dec 25 j 03:01	13°♂36'45	37.53030 AU	opposition	-2161 Jul 08 j 20:19	26°♂30'22	-9°-33'-4
retrograde	-2169 Apr 04 j 16:22	15°♂32'44		direct	-2161 Sep 27 j 10:59	25°♂21'36	
min. Earth dist.	-2169 Jun 23 j 03:26	14°♂24'32	35.66994 AU				
opposition	-2169 Jun 26 j 06:44	14°♂20'13	-6°-9'-36	conjunction	-2160 Jan 04 j 17:16	27°♂12'14	-9°-14'-57
direct	-2169 Sep 14 j 19:14	13°♂09'04		minimum elong	-2160 Jan 04 j 17:03	27°♂12'13	9°15'01
				max. Earth dist.	-2160 Jan 07 j 22:52	27°♂17'53	39.81442 AU
conjunction	-2169 Dec 23 j 19:14	15°♂06'26	-6°-3'-6	retrograde	-2160 Apr 17 j 12:30	29°♂06'55	
minimum elong	-2169 Dec 23 j 19:04	15°♂06'25	6°03'11	min. Earth dist.	-2160 Jul 06 j 07:55	28°♂01'09	37.96784 AU
max. Earth dist.	-2169 Dec 26 j 22:30	15°♂12'13	37.78872 AU	opposition	-2160 Jul 09 j 13:59	27°♂56'51	-9°-55'-28
retrograde	-2168 Apr 05 j 12:32	17°♂07'25		direct	-2160 Sep 28 j 01:46	26°♂48'21	
min. Earth dist.	-2168 Jun 23 j 23:18	15°♂59'37	35.92982 AU				
opposition	-2168 Jun 27 j 03:56	15°♂55'14	-6°-37'-23	conjunction	-2159 Jan 05 j 09:21	28°♂38'14	-9°-36'-7
direct	-2168 Sep 15 j 16:04	14°♂44'27		minimum elong	-2159 Jan 05 j 09:09	28°♂38'14	9°36'10
				max. Earth dist.	-2159 Jan 08 j 16:01	28°♂43'56	40.06455 AU
conjunction	-2168 Dec 24 j 14:25	16°♂40'55	-6°-29'-15		-2159 Feb 26 j 21:33	0°♂	
minimum elong	-2168 Dec 24 j 14:14	16°♂40'55	6°29'19	retrograde	-2159 Apr 19 j 03:59	0°♂32'13	
max. Earth dist.	-2168 Dec 27 j 18:10	16°♂46'43	38.04642 AU		-2159 Jun 11 j 04:00	30°R♂	
retrograde	-2167 Apr 07 j 10:00	18°♂41'06		min. Earth dist.	-2159 Jul 08 j 01:09	29°♂26'42	38.21979 AU
min. Earth dist.	-2167 Jun 25 j 20:44	17°♂33'34	36.18892 AU	opposition	-2159 Jul 11 j 07:14	29°♂22'25	-10°-17'-13
opposition	-2167 Jun 29 j 01:01	17°♂29'14	-7°-4'-30	direct	-2159 Sep 29 j 19:30	28°♂14'12	
direct	-2167 Sep 17 j 11:07	16°♂18'48			-2158 Jan 05 j 02:13	0°♂	
conjunction	-2167 Dec 26 j 09:15	18°♂14'24	-6°-54'-47	conjunction	-2158 Jan 07 j 00:53	0°♂03'22	-9°-56'-40
minimum elong	-2167 Dec 26 j 09:04	18°♂14'23	6°54'52	minimum elong	-2158 Jan 07 j 00:40	0°♂03'21	9°56'44
max. Earth dist.	-2167 Dec 29 j 13:35	18°♂20'11	38.30298 AU	max. Earth dist.	-2158 Jan 10 j 06:53	0°♂08'59	40.31409 AU
retrograde	-2166 Apr 09 j 05:41	20°♂13'46		retrograde	-2158 Apr 20 j 19:57	1°♂56'40	
min. Earth dist.	-2166 Jun 27 j 16:57	19°♂06'31	36.44646 AU	min. Earth dist.	-2158 Jul 09 j 17:17	0°♂51'26	38.47107 AU
opposition	-2166 Jun 30 j 21:28	19°♂02'12	-7°-30'-56	opposition	-2158 Jul 13 j 00:11	0°♂47'08	-10°-38'-17

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Attention, astronomical year style is used: The year -2158 in astronomical counting style is the year 2159 BCE in historical counting style.

	-2158 Aug 21 j 13:44	30°R ²		conjunction	-2149 Jan 19 j 09:17	12°♁13'36	-12°-35'-47
direct	-2158 Oct 01 j 12:24	29°♁39'12		minimum elong	-2149 Jan 19 j 09:07	12°♁13'35	12°35'51
	-2158 Nov 10 j 09:40	0°♁		max. Earth dist.	-2149 Jan 22 j 14:00	12°♁18'52	42.45584 AU
				retrograde	-2149 May 02 j 23:58	14°♁01'18	
conjunction	-2157 Jan 08 j 16:21	1°♁27'40	-10°-16'-36	min. Earth dist.	-2149 Jul 22 j 12:10	12°♁57'50	40.62052 AU
minimum elong	-2157 Jan 08 j 16:09	1°♁27'39	10°16'40	opposition	-2149 Jul 25 j 15:59	12°♁53'49	-13°-20'-45
max. Earth dist.	-2157 Jan 11 j 23:33	1°♁33'20	40.56256 AU	direct	-2149 Oct 14 j 09:24	11°♁48'00	
retrograde	-2157 Apr 22 j 09:01	3°♁20'18					
min. Earth dist.	-2157 Jul 11 j 10:46	2°♁15'16	38.72093 AU	conjunction	-2148 Jan 20 j 21:58	13°♁30'47	-12°-50'-43
opposition	-2157 Jul 14 j 16:36	2°♁11'02	-10°-58'-44	minimum elong	-2148 Jan 20 j 21:47	13°♁30'47	12°50'46
direct	-2157 Oct 03 j 07:13	1°♁03'23		max. Earth dist.	-2148 Jan 24 j 02:08	13°♁35'58	42.68148 AU
				retrograde	-2148 May 03 j 15:01	15°♁17'57	
conjunction	-2156 Jan 10 j 07:29	2°♁51'10	-10°-35'-57	min. Earth dist.	-2148 Jul 23 j 02:01	14°♁14'38	40.84757 AU
minimum elong	-2156 Jan 10 j 07:15	2°♁51'09	10°36'01	opposition	-2148 Jul 26 j 05:26	14°♁10'40	-13°-35'-54
max. Earth dist.	-2156 Jan 13 j 13:48	2°♁56'45	40.80938 AU	direct	-2148 Oct 14 j 20:43	13°♁05'04	
retrograde	-2156 Apr 22 j 23:40	4°♁43'10					
min. Earth dist.	-2156 Jul 12 j 02:04	3°♁38'25	38.96879 AU	conjunction	-2147 Jan 21 j 10:26	14°♁47'19	-13°-5'-6
opposition	-2156 Jul 15 j 08:41	3°♁34'09	-11°-18'-32	minimum elong	-2147 Jan 21 j 10:16	14°♁47'18	13°05'10
direct	-2156 Oct 03 j 23:50	2°♁26'47		max. Earth dist.	-2147 Jan 24 j 15:32	14°♁52'32	42.90580 AU
				retrograde	-2147 May 05 j 03:48	16°♁33'56	
conjunction	-2155 Jan 10 j 22:10	4°♁13'55	-10°-54'-44	min. Earth dist.	-2147 Jul 24 j 15:34	15°♁30'48	41.07303 AU
minimum elong	-2155 Jan 10 j 21:58	4°♁13'54	10°54'48	opposition	-2147 Jul 27 j 18:33	15°♁26'52	-13°-50'-28
max. Earth dist.	-2155 Jan 14 j 04:36	4°♁19'28	41.05375 AU	direct	-2147 Oct 16 j 09:14	14°♁21'30	
retrograde	-2155 Apr 24 j 15:13	6°♁05'17					
min. Earth dist.	-2155 Jul 13 j 19:13	5°♁00'43	39.21402 AU	conjunction	-2146 Jan 22 j 22:39	16°♁03'14	-13°-18'-56
opposition	-2155 Jul 17 j 00:40	4°♁56'32	-11°-37'-45	minimum elong	-2146 Jan 22 j 22:28	16°♁03'13	13°18'59
direct	-2155 Oct 05 j 15:16	3°♁49'25		max. Earth dist.	-2146 Jan 26 j 02:33	16°♁08'21	43.12859 AU
				retrograde	-2146 May 06 j 17:26	17°♁49'20	
conjunction	-2154 Jan 12 j 12:54	5°♁35'54	-11°-12'-56	min. Earth dist.	-2146 Jul 26 j 03:45	16°♁46'27	41.29689 AU
minimum elong	-2154 Jan 12 j 12:41	5°♁35'53	11°13'00	opposition	-2146 Jul 29 j 07:16	16°♁42'30	-14°-4'-29
max. Earth dist.	-2154 Jan 15 j 19:17	5°♁41'25	41.29526 AU	direct	-2146 Oct 17 j 20:39	15°♁37'21	
retrograde	-2154 Apr 26 j 06:36	7°♁26'38					
min. Earth dist.	-2154 Jul 15 j 10:47	6°♁22'17	39.45595 AU	conjunction	-2145 Jan 24 j 10:46	17°♁18'35	-13°-32'-16
opposition	-2154 Jul 18 j 16:04	6°♁18'07	-11°-56'-22	minimum elong	-2145 Jan 24 j 10:36	17°♁18'35	13°32'20
direct	-2154 Oct 07 j 06:16	5°♁11'15		max. Earth dist.	-2145 Jan 27 j 15:18	17°♁23'43	43.34949 AU
				retrograde	-2145 May 08 j 02:14	19°♁04'12	
conjunction	-2153 Jan 14 j 03:12	6°♁57'05	-11°-30'-36	min. Earth dist.	-2145 Jul 27 j 17:51	18°♁01'28	41.51853 AU
minimum elong	-2153 Jan 14 j 03:00	6°♁57'05	11°30'40	opposition	-2145 Jul 30 j 19:52	17°♁57'36	-14°-17'-57
max. Earth dist.	-2153 Jan 17 j 08:18	7°♁02'29	41.53331 AU	direct	-2145 Oct 19 j 11:53	16°♁52'41	
retrograde	-2153 Apr 27 j 23:11	8°♁47'12					
min. Earth dist.	-2153 Jul 17 j 02:14	7°♁43'02	39.69447 AU	conjunction	-2144 Jan 25 j 22:35	18°♁33'25	-13°-45'-5
opposition	-2153 Jul 20 j 07:16	7°♁38'54	-12°-14'-24	minimum elong	-2144 Jan 25 j 22:26	18°♁33'25	13°45'09
direct	-2153 Oct 08 j 19:27	6°♁32'15		max. Earth dist.	-2144 Jan 29 j 02:16	18°♁38'29	43.56802 AU
				retrograde	-2144 May 08 j 12:49	20°♁18'33	
conjunction	-2152 Jan 15 j 17:15	8°♁17'28	-11°-47'-43	min. Earth dist.	-2144 Jul 28 j 05:40	19°♁16'03	41.73739 AU
minimum elong	-2152 Jan 15 j 17:02	8°♁17'27	11°47'47	opposition	-2144 Jul 31 j 08:04	19°♁12'11	-14°-30'-54
max. Earth dist.	-2152 Jan 18 j 22:54	8°♁22'52	41.76792 AU	direct	-2144 Oct 20 j 01:44	18°♁07'30	
retrograde	-2152 Apr 28 j 11:04	10°♁06'57					
min. Earth dist.	-2152 Jul 17 j 18:10	9°♁02'54	39.92953 AU	conjunction	-2143 Jan 26 j 10:15	19°♁47'45	-13°-57'-25
opposition	-2152 Jul 20 j 21:59	8°♁58'51	-12°-31'-51	minimum elong	-2143 Jan 26 j 10:05	19°♁47'45	13°57'30
direct	-2152 Oct 09 j 12:05	7°♁52'25		max. Earth dist.	-2143 Jan 29 j 13:19	19°♁52'45	43.78343 AU
				retrograde	-2143 May 10 j 02:38	21°♁32'25	
conjunction	-2151 Jan 16 j 06:52	9°♁36'59	-12°-4'-17	min. Earth dist.	-2143 Jul 29 j 19:11	20°♁30'03	41.95295 AU
minimum elong	-2151 Jan 16 j 06:41	9°♁36'59	12°04'22	opposition	-2143 Aug 01 j 20:14	20°♁26'16	-14°-43'-21
max. Earth dist.	-2151 Jan 19 j 11:16	9°♁42'17	41.99951 AU	direct	-2143 Oct 21 j 12:29	19°♁21'48	
retrograde	-2151 Apr 29 j 23:00	11°♁25'52					
min. Earth dist.	-2151 Jul 19 j 07:55	10°♁22'02	40.16192 AU	conjunction	-2142 Jan 27 j 21:52	21°♁01'35	-14°-9'-17
opposition	-2151 Jul 22 j 12:23	10°♁17'58	-12°-48'-44	minimum elong	-2142 Jan 27 j 21:44	21°♁01'34	14°09'21
direct	-2151 Oct 11 j 04:03	9°♁11'44		max. Earth dist.	-2142 Jan 31 j 00:49	21°♁06'32	43.99527 AU
				retrograde	-2142 May 11 j 14:07	22°♁45'45	
conjunction	-2150 Jan 17 j 20:08	10°♁55'41	-12°-20'-19	min. Earth dist.	-2142 Jul 31 j 07:45	21°♁43'33	42.16438 AU
minimum elong	-2150 Jan 17 j 19:56	10°♁55'41	12°20'22	opposition	-2142 Aug 03 j 08:03	21°♁39'49	-14°-55'-19
max. Earth dist.	-2150 Jan 21 j 01:07	11°♁01'00	42.22859 AU	direct	-2142 Oct 23 j 00:32	20°♁35'32	
retrograde	-2150 May 01 j 11:12	12°♁43'58					
min. Earth dist.	-2150 Jul 20 j 23:16	11°♁40'16	40.39211 AU	conjunction	-2141 Jan 29 j 09:15	22°♁14'50	-14°-20'-42
opposition	-2150 Jul 24 j 02:32	11°♁36'16	-13°-5'-2	minimum elong	-2141 Jan 29 j 09:06	22°♁14'50	14°20'46
direct	-2150 Oct 12 j 19:34	10°♁30'15		max. Earth dist.	-2141 Feb 01 j 10:16	22°♁19'39	44.20282 AU

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Attention, astronomical year style is used: The year -2141 in astronomical counting style is the year 2142 BCE in historical counting style.

retrograde	-2141 May 13 j 03:24	23°♁58'31		retrograde	-2133 May 22 j 08:23	3°♁19'09	
min. Earth dist.	-2141 Aug 01 j 19:47	22°♁56'28	42.37151 AU	min. Earth dist.	-2133 Aug 11 j 13:09	2°♁18'03	43.91013 AU
opposition	-2141 Aug 04 j 19:33	22°♁52'46	-15°-6'-49	opposition	-2133 Aug 14 j 07:08	2°♁14'43	-16°-22'-2
direct	-2141 Oct 24 j 10:01	21°♁48'40		direct	-2133 Nov 03 j 02:24	1°♁11'55	
conjunction	-2140 Jan 30 j 20:27	23°♁27'30	-14°-31'-40	conjunction	-2132 Feb 09 j 05:35	2°♁47'22	-15°-43'-21
minimum elong	-2140 Jan 30 j 20:20	23°♁27'29	14°31'43	minimum elong	-2132 Feb 09 j 05:31	2°♁47'22	15°43'25
max. Earth dist.	-2140 Feb 02 j 21:43	23°♁32'17	44.40605 AU	max. Earth dist.	-2132 Feb 12 j 02:18	2°♁51'44	45.92181 AU
retrograde	-2140 May 13 j 13:04	25°♁10'41		retrograde	-2132 May 22 j 17:34	4°♁27'09	
min. Earth dist.	-2140 Aug 02 j 08:52	24°♁08'41	42.57427 AU	min. Earth dist.	-2132 Aug 11 j 22:43	3°♁26'15	44.08991 AU
opposition	-2140 Aug 05 j 06:56	24°♁05'05	-15°-17'-51	opposition	-2132 Aug 14 j 16:33	3°♁22'56	-16°-29'-24
direct	-2140 Oct 24 j 22:42	23°♁01'09		direct	-2132 Nov 03 j 12:31	2°♁20'19	
conjunction	-2139 Jan 31 j 07:11	24°♁39'29	-14°-42'-11	conjunction	-2131 Feb 09 j 14:50	3°♁55'26	-15°-50'-23
minimum elong	-2139 Jan 31 j 07:03	24°♁39'29	14°42'15	minimum elong	-2131 Feb 09 j 14:45	3°♁55'25	15°50'25
max. Earth dist.	-2139 Feb 03 j 07:02	24°♁44'11	44.60529 AU	max. Earth dist.	-2131 Feb 12 j 09:57	3°♁59'40	46.09854 AU
retrograde	-2139 May 14 j 21:53	26°♁22'12		retrograde	-2131 May 24 j 06:05	5°♁34'52	
min. Earth dist.	-2139 Aug 03 j 19:34	25°♁20'21	42.77325 AU	min. Earth dist.	-2131 Aug 13 j 09:19	4°♁34'04	44.26582 AU
opposition	-2139 Aug 06 j 17:59	25°♁16'45	-15°-28'-25	opposition	-2131 Aug 16 j 01:59	4°♁30'50	-16°-36'-22
direct	-2139 Oct 26 j 10:58	24°♁12'57		direct	-2131 Nov 04 j 19:23	3°♁28'24	
conjunction	-2138 Feb 01 j 17:49	25°♁50'49	-14°-52'-16	conjunction	-2130 Feb 11 j 00:21	5°♁03'11	-15°-57'-2
minimum elong	-2138 Feb 01 j 17:42	25°♁50'49	14°52'19	minimum elong	-2130 Feb 11 j 00:17	5°♁03'11	15°57'05
max. Earth dist.	-2138 Feb 04 j 17:15	25°♁55'28	44.80097 AU	max. Earth dist.	-2130 Feb 13 j 19:31	5°♁07'24	46.27105 AU
retrograde	-2138 May 16 j 07:17	27°♁33'03		retrograde	-2130 May 25 j 16:10	6°♁42'16	
min. Earth dist.	-2138 Aug 05 j 07:54	26°♁31'17	42.96904 AU	min. Earth dist.	-2130 Aug 14 j 20:05	5°♁41'34	44.43701 AU
opposition	-2138 Aug 08 j 04:45	26°♁27'45	-15°-38'-31	opposition	-2130 Aug 17 j 11:04	5°♁38'25	-16°-42'-56
direct	-2138 Oct 27 j 23:32	25°♁24'06		direct	-2130 Nov 06 j 03:36	4°♁36'08	
conjunction	-2137 Feb 03 j 04:20	27°♁01'31	-15°-1'-53	conjunction	-2129 Feb 12 j 09:38	6°♁10'36	-16°-3'-19
minimum elong	-2137 Feb 03 j 04:13	27°♁01'30	15°01'57	minimum elong	-2129 Feb 12 j 09:35	6°♁10'35	16°03'21
max. Earth dist.	-2137 Feb 06 j 03:42	27°♁06'08	44.99384 AU	max. Earth dist.	-2129 Feb 15 j 02:34	6°♁14'40	46.43874 AU
retrograde	-2137 May 17 j 17:50	28°♁43'17		retrograde	-2129 May 27 j 01:49	7°♁49'19	
min. Earth dist.	-2137 Aug 06 j 18:29	27°♁41'39	43.16202 AU	min. Earth dist.	-2129 Aug 16 j 05:20	6°♁48'45	44.60321 AU
opposition	-2137 Aug 09 j 15:12	27°♁38'08	-15°-48'-9	opposition	-2129 Aug 18 j 20:04	6°♁45'37	-16°-49'-9
direct	-2137 Oct 29 j 10:17	26°♁34'38		direct	-2129 Nov 07 j 11:38	5°♁43'30	
conjunction	-2136 Feb 04 j 14:22	28°♁11'37	-15°-11'-4	conjunction	-2128 Feb 13 j 18:38	7°♁17'37	-16°-9'-15
minimum elong	-2136 Feb 04 j 14:17	28°♁11'36	15°11'08	minimum elong	-2128 Feb 13 j 18:35	7°♁17'36	16°09'19
max. Earth dist.	-2136 Feb 07 j 12:29	28°♁16'07	45.18413 AU	max. Earth dist.	-2128 Feb 16 j 10:58	7°♁21'37	46.60132 AU
retrograde	-2136 May 18 j 06:11	29°♁52'57		retrograde	-2128 May 27 j 07:11	8°♁55'58	
min. Earth dist.	-2136 Aug 07 j 05:04	28°♁51'26	43.35270 AU	min. Earth dist.	-2128 Aug 16 j 16:26	7°♁55'26	44.76434 AU
opposition	-2136 Aug 10 j 01:32	28°♁47'58	-15°-57'-19	opposition	-2128 Aug 19 j 04:59	7°♁52'25	-16°-54'-59
direct	-2136 Oct 29 j 18:12	27°♁44'37		direct	-2128 Nov 07 j 23:53	6°♁50'25	
conjunction	-2135 Feb 05 j 00:27	29°♁21'11	-15°-19'-47	conjunction	-2127 Feb 14 j 03:37	8°♁24'11	-16°-14'-49
minimum elong	-2135 Feb 05 j 00:20	29°♁21'11	15°19'50	minimum elong	-2127 Feb 14 j 03:35	8°♁24'11	16°14'52
max. Earth dist.	-2135 Feb 07 j 23:08	29°♁25'43	45.37224 AU	max. Earth dist.	-2127 Feb 16 j 18:55	8°♁28'07	46.75925 AU
retrograde	-2135 Mar 02 j 22:18	0°♁		retrograde	-2127 May 28 j 14:11	10°♁02'11	
min. Earth dist.	-2135 May 19 j 15:00	1°♁02'06		min. Earth dist.	-2127 Aug 18 j 01:12	9°♁01'45	44.92090 AU
opposition	-2135 Aug 08 j 16:19	0°♁00'42	43.54104 AU	opposition	-2127 Aug 20 j 13:30	8°♁58'45	-17°00'-28
direct	-2135 Aug 09 j 06:11	30°♁♁		direct	-2127 Nov 09 j 10:46	7°♁56'52	
opposition	-2135 Aug 11 j 11:38	29°♁57'17	-16°-6'00	conjunction	-2126 Feb 15 j 12:15	9°♁30'17	-16°-20'-2
direct	-2135 Oct 31 j 05:06	28°♁54'07		minimum elong	-2126 Feb 15 j 12:11	9°♁30'17	16°20'06
conjunction	-2134 Jan 17 j 07:46	0°♁		max. Earth dist.	-2126 Feb 18 j 02:02	9°♁34'07	46.91284 AU
minimum elong	-2134 Feb 06 j 10:15	0°♁30'18	-15°-28'-4	retrograde	-2126 May 30 j 00:46	11°♁07'55	
max. Earth dist.	-2134 Feb 06 j 10:10	0°♁30'17	15°28'08	min. Earth dist.	-2126 Aug 19 j 11:00	10°♁07'32	45.07353 AU
retrograde	-2134 May 20 j 23:39	2°♁10'48		opposition	-2126 Aug 21 j 21:58	10°♁04'36	-17°-5'-34
min. Earth dist.	-2134 Aug 10 j 01:49	1°♁09'36	43.72699 AU	direct	-2126 Nov 10 j 17:58	9°♁02'50	
opposition	-2134 Aug 12 j 21:29	1°♁06'11	-16°-14'-14	conjunction	-2125 Feb 16 j 20:54	10°♁35'54	-16°-24'-53
direct	-2134 Nov 01 j 15:37	0°♁03'12		minimum elong	-2125 Feb 16 j 20:53	10°♁35'54	16°24'56
conjunction	-2133 Feb 07 j 19:58	1°♁39'00	-15°-35'-55	max. Earth dist.	-2125 Feb 19 j 10:48	10°♁39'43	47.06280 AU
minimum elong	-2133 Feb 07 j 19:52	1°♁39'00	15°35'58	retrograde	-2125 May 31 j 09:03	12°♁13'11	
max. Earth dist.	-2133 Feb 10 j 17:10	1°♁43'24	45.74142 AU	min. Earth dist.	-2125 Aug 20 j 20:02	11°♁12'52	45.22259 AU
				opposition	-2125 Aug 23 j 06:01	11°♁10'00	-17°-10'-17

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Attention, astronomical year style is used: The year -2125 in astronomical counting style is the year 2126 BCE in historical counting style.

direct	-2125 Nov 12 j 02:24	10°08'19"			min. Earth dist.	-2117 Aug 29 j 15:12	19°42'52"	46.30016 AU
					opposition	-2117 Aug 31 j 18:06	19°40'22"	-17°-34'-43
conjunction	-2124 Feb 18 j 05:12	11°41'05"	-16°-29'-22		direct	-2117 Nov 20 j 16:27	18°39'38"	
minimum elong	-2124 Feb 18 j 05:10	11°41'05"	16°29'25"					
max. Earth dist.	-2124 Feb 20 j 17:19	11°44'46"	47.20964 AU		conjunction	-2116 Feb 26 j 20:04	20°10'16"	-16°-52'-29
retrograde	-2124 May 31 j 18:19	13°18'00"			minimum elong	-2116 Feb 26 j 20:06	20°10'16"	16°52'31"
min. Earth dist.	-2124 Aug 21 j 04:05	12°17'48"	45.36879 AU		max. Earth dist.	-2116 Feb 29 j 00:29	20°13'25"	48.26799 AU
opposition	-2124 Aug 23 j 14:03	12°14'56"	-17°-14'-36		retrograde	-2116 Jun 09 j 04:16	21°44'53"	
direct	-2124 Nov 12 j 08:29	11°13'22"			min. Earth dist.	-2116 Aug 30 j 00:09	20°45'14"	46.41533 AU
					opposition	-2116 Sep 01 j 01:09	20°42'51"	-17°-36'-18
conjunction	-2123 Feb 18 j 13:18	12°45'50"	-16°-33'-28		direct	-2116 Nov 21 j 00:03	19°42'12"	
minimum elong	-2123 Feb 18 j 13:18	12°45'50"	16°33'31"					
max. Earth dist.	-2123 Feb 21 j 01:36	12°49'31"	47.35366 AU		conjunction	-2115 Feb 27 j 03:30	21°12'34"	-16°-53'-58
retrograde	-2123 Jun 02 j 00:56	14°22'26"			minimum elong	-2115 Feb 27 j 03:32	21°12'35"	16°54'01"
min. Earth dist.	-2123 Aug 22 j 13:44	13°22'15"	45.51216 AU		max. Earth dist.	-2115 Mar 01 j 07:32	21°15'41"	48.38048 AU
opposition	-2123 Aug 24 j 22:01	13°19'29"	-17°-18'-33		retrograde	-2115 Jun 10 j 10:56	22°46'55"	
direct	-2123 Nov 13 j 17:17	12°18'02"			min. Earth dist.	-2115 Aug 31 j 07:55	21°47'19"	46.52564 AU
					opposition	-2115 Sep 02 j 07:54	21°44'59"	-17°-37'-34
conjunction	-2122 Feb 19 j 21:28	13°50'11"	-16°-37'-12		direct	-2115 Nov 22 j 07:48	20°44'25"	
minimum elong	-2122 Feb 19 j 21:27	13°50'11"	16°37'15"					
max. Earth dist.	-2122 Feb 22 j 08:50	13°53'49"	47.49509 AU		conjunction	-2114 Feb 28 j 10:46	22°14'32"	-16°-55'-8
	-2122 Apr 14 j 05:03	15°			minimum elong	-2114 Feb 28 j 10:49	22°14'32"	16°55'10"
retrograde	-2122 Jun 03 j 06:19	15°26'29"			max. Earth dist.	-2114 Mar 02 j 12:38	22°17'30"	48.48849 AU
	-2122 Jul 24 j 10:10	15°R			retrograde	-2114 Jun 11 j 20:17	23°48'36"	
min. Earth dist.	-2122 Aug 23 j 21:04	14°26'27"	45.65274 AU		min. Earth dist.	-2114 Sep 01 j 15:08	22°49'03"	46.63187 AU
opposition	-2122 Aug 26 j 05:33	14°23'40"	-17°-22'-7		opposition	-2114 Sep 03 j 14:23	22°46'45"	-17°-38'-32
direct	-2122 Nov 15 j 03:06	13°22'20"			direct	-2114 Nov 23 j 11:54	21°46'15"	
conjunction	-2121 Feb 21 j 05:24	14°54'13"	-16°-40'-35		conjunction	-2113 Mar 01 j 17:59	23°16'09"	-16°-56'00
minimum elong	-2121 Feb 21 j 05:24	14°54'13"	16°40'38"		minimum elong	-2113 Mar 01 j 18:01	23°16'09"	16°56'03"
max. Earth dist.	-2121 Feb 23 j 15:30	14°57'45"	47.63361 AU		max. Earth dist.	-2113 Mar 03 j 19:45	23°19'07"	48.59262 AU
	-2121 Feb 25 j 04:20	15°			retrograde	-2113 Jun 13 j 02:39	24°49'57"	
retrograde	-2121 Jun 04 j 14:48	16°30'13"			min. Earth dist.	-2113 Sep 02 j 23:27	23°50'24"	46.73442 AU
min. Earth dist.	-2121 Aug 25 j 06:10	15°30'15"	45.79036 AU		opposition	-2113 Sep 04 j 20:55	23°48'12"	-17°-39'-10
opposition	-2121 Aug 27 j 13:13	15°27'33"	-17°-25'-19		direct	-2113 Nov 24 j 18:38	22°47'47"	
	-2121 Sep 20 j 16:56	15°R						
direct	-2121 Nov 16 j 11:10	14°26'21"			conjunction	-2112 Mar 02 j 00:53	24°17'27"	-16°-56'-32
	-2120 Jan 10 j 14:06	15°			minimum elong	-2112 Mar 02 j 00:57	24°17'28"	16°56'35"
					max. Earth dist.	-2112 Mar 04 j 01:28	24°20'20"	48.69354 AU
conjunction	-2120 Feb 22 j 13:14	15°57'57"	-16°-43'-36		retrograde	-2112 Jun 13 j 07:05	25°51'01"	
minimum elong	-2120 Feb 22 j 13:13	15°57'57"	16°43'39"		min. Earth dist.	-2112 Sep 03 j 05:29	24°51'34"	46.83387 AU
max. Earth dist.	-2120 Feb 24 j 23:29	16°01'30"	47.76903 AU		opposition	-2112 Sep 05 j 03:13	24°49'21"	-17°-39'-28
retrograde	-2120 Jun 04 j 23:39	17°33'41"			direct	-2112 Nov 25 j 02:13	23°49'01"	
min. Earth dist.	-2120 Aug 25 j 14:33	16°33'48"	45.92441 AU					
opposition	-2120 Aug 27 j 20:39	16°31'09"	-17°-28'-9		conjunction	-2111 Mar 03 j 07:45	25°18'29"	-16°-56'-46
direct	-2120 Nov 16 j 17:59	15°30'05"			minimum elong	-2111 Mar 03 j 07:48	25°18'29"	16°56'48"
					max. Earth dist.	-2111 Mar 05 j 07:10	25°21'17"	48.79149 AU
conjunction	-2119 Feb 22 j 20:59	17°01'26"	-16°-46'-17		retrograde	-2111 Jun 14 j 12:46	26°51'49"	
minimum elong	-2119 Feb 22 j 21:00	17°01'26"	16°46'21"		min. Earth dist.	-2111 Sep 04 j 13:24	25°52'24"	46.93055 AU
max. Earth dist.	-2119 Feb 25 j 05:12	17°04'50"	47.90076 AU		opposition	-2111 Sep 06 j 09:30	25°50'16"	-17°-39'-27
retrograde	-2119 Jun 06 j 09:50	18°36'53"			direct	-2111 Nov 26 j 10:25	24°50'01"	
min. Earth dist.	-2119 Aug 26 j 22:24	17°37'07"	46.05456 AU					
opposition	-2119 Aug 29 j 03:55	17°34'30"	-17°-30'-39		conjunction	-2110 Mar 04 j 14:42	26°19'17"	-16°-56'-40
direct	-2119 Nov 17 j 22:49	16°33'33"			minimum elong	-2110 Mar 04 j 14:47	26°19'18"	16°56'43"
					max. Earth dist.	-2110 Mar 06 j 14:11	26°22'06"	48.88682 AU
conjunction	-2118 Feb 24 j 04:48	18°04'40"	-16°-48'-39		retrograde	-2110 Jun 15 j 20:00	27°52'25"	
minimum elong	-2118 Feb 24 j 04:49	18°04'40"	16°48'42"		min. Earth dist.	-2110 Sep 05 j 20:01	26°53'05"	47.02434 AU
max. Earth dist.	-2118 Feb 26 j 12:32	18°08'02"	48.02814 AU		opposition	-2110 Sep 07 j 15:35	26°50'59"	-17°-39'-6
retrograde	-2118 Jun 07 j 15:38	19°39'50"			direct	-2110 Nov 27 j 17:00	25°50'50"	
min. Earth dist.	-2118 Aug 28 j 07:52	18°40'05"	46.17993 AU					
opposition	-2118 Aug 30 j 11:12	18°37'35"	-17°-32'-51		conjunction	-2109 Mar 05 j 21:22	27°19'56"	-16°-56'-16
direct	-2118 Nov 19 j 07:21	17°36'45"			minimum elong	-2109 Mar 05 j 21:26	27°19'56"	16°56'18"
					max. Earth dist.	-2109 Mar 07 j 18:52	27°22'37"	48.97927 AU
conjunction	-2117 Feb 25 j 12:34	19°07'37"	-16°-50'-43		retrograde	-2109 Jun 17 j 05:53	28°52'51"	
minimum elong	-2117 Feb 25 j 12:36	19°07'37"	16°50'46"		min. Earth dist.	-2109 Sep 07 j 02:34	27°53'37"	47.11522 AU
max. Earth dist.	-2117 Feb 27 j 18:43	19°10'53"	48.15066 AU		opposition	-2109 Sep 08 j 21:34	27°51'32"	-17°-38'-25
retrograde	-2117 Jun 08 j 20:38	20°42'30"			direct	-2109 Nov 28 j 19:40	26°51'29"	

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Attention, astronomical year style is used: The year -2108 in astronomical counting style is the year 2109 BCE in historical counting style.

conjunction	-2108 Mar 06 j 04:05	28°≈20'26	-16°-55'-33	direct	-2101 Dec 06 j 21:17	4°✕50'37	
minimum elong	-2108 Mar 06 j 04:11	28°≈20'26	16°55'36				
max. Earth dist.	-2108 Mar 08 j 01:32	28°≈23'06	49.06862 AU	conjunction	-2100 Mar 14 j 07:56	6°✕18'18	-16°-40'-8
retrograde	-2108 Jun 17 j 12:02	29°≈53'10		minimum elong	-2100 Mar 14 j 08:02	6°✕18'18	16°40'11
min. Earth dist.	-2108 Sep 07 j 10:21	28°≈53'57	47.20266 AU	max. Earth dist.	-2100 Mar 15 j 19:13	6°✕20'20	49.62088 AU
opposition	-2108 Sep 09 j 03:33	28°≈51'58	-17°-37'-27	retrograde	-2100 Jun 25 j 07:39	7°✕49'30	
direct	-2108 Nov 29 j 01:26	27°≈52'02		min. Earth dist.	-2100 Sep 15 j 16:13	6°✕50'25	47.73394 AU
				opposition	-2100 Sep 17 j 00:01	6°✕48'54	-17°-19'-50
conjunction	-2107 Mar 07 j 10:40	29°≈20'49	-16°-54'-32	direct	-2100 Dec 07 j 05:02	5°✕49'23	
minimum elong	-2107 Mar 07 j 10:45	29°≈20'50	16°54'34				
max. Earth dist.	-2107 Mar 09 j 06:39	29°≈23'24	49.15444 AU	conjunction	-2099 Mar 15 j 13:52	7°✕16'55	-16°-37'-1
	-2107 Apr 05 j 04:03	0°✕		minimum elong	-2099 Mar 15 j 14:01	7°✕16'56	16°37'02
retrograde	-2107 Jun 18 j 16:29	0°✕53'22		max. Earth dist.	-2099 Mar 16 j 23:08	7°✕18'51	49.67101 AU
	-2107 Sep 03 j 16:57	30°R≈		retrograde	-2099 Jun 26 j 16:01	8°✕47'58	
min. Earth dist.	-2107 Sep 08 j 16:28	29°≈54'16	47.28613 AU	min. Earth dist.	-2099 Sep 16 j 22:13	7°✕48'55	47.78202 AU
opposition	-2107 Sep 10 j 09:23	29°≈52'18	-17°-36'-10	opposition	-2099 Sep 18 j 05:13	7°✕47'26	-17°-16'-23
direct	-2107 Nov 30 j 08:41	28°≈52'27		direct	-2099 Dec 08 j 08:10	6°✕47'57	
	-2106 Feb 21 j 13:49	0°✕					
conjunction	-2106 Mar 08 j 17:22	0°✕21'06	-16°-53'-15	conjunction	-2098 Mar 16 j 20:04	8°✕15'22	-16°-33'-36
minimum elong	-2106 Mar 08 j 17:28	0°✕21'06	16°53'18	minimum elong	-2098 Mar 16 j 20:11	8°✕15'23	16°33'38
max. Earth dist.	-2106 Mar 10 j 11:46	0°✕23'35	49.23580 AU	max. Earth dist.	-2098 Mar 18 j 05:12	8°✕17'17	49.71809 AU
retrograde	-2106 Jun 19 j 21:38	1°✕53'28		retrograde	-2098 Jun 27 j 22:10	9°✕46'17	
min. Earth dist.	-2106 Sep 10 j 00:31	0°✕54'22	47.36490 AU	min. Earth dist.	-2098 Sep 18 j 04:50	8°✕47'12	47.82695 AU
opposition	-2106 Sep 11 j 15:10	0°✕52'30	-17°-34'-38	opposition	-2098 Sep 19 j 10:15	8°✕45'48	-17°-12'-39
	-2106 Nov 06 j 00:48	30°R≈		direct	-2098 Dec 09 j 12:58	7°✕46'23	
direct	-2106 Dec 01 j 16:07	29°≈52'45		conjunction	-2097 Mar 18 j 02:06	9°✕13'42	-16°-29'-55
	-2106 Dec 27 j 00:35	0°✕		minimum elong	-2097 Mar 18 j 02:15	9°✕13'43	16°29'57
conjunction	-2105 Mar 10 j 00:08	1°✕21'14	-16°-51'-43	max. Earth dist.	-2097 Mar 19 j 09:51	9°✕15'32	49.76225 AU
minimum elong	-2105 Mar 10 j 00:14	1°✕21'14	16°51'44	retrograde	-2097 Jun 29 j 03:18	10°✕44'28	
max. Earth dist.	-2105 Mar 11 j 17:47	1°✕23'40	49.31228 AU	min. Earth dist.	-2097 Sep 19 j 09:54	9°✕45'29	47.86881 AU
retrograde	-2105 Jun 21 j 02:54	2°✕53'26		opposition	-2097 Sep 20 j 15:15	9°✕44'05	-17°-8'-38
min. Earth dist.	-2105 Sep 11 j 07:09	1°✕54'22	47.43836 AU	direct	-2097 Dec 10 j 17:51	8°✕44'44	
opposition	-2105 Sep 12 j 20:53	1°✕52'33	-17°-32'-49	conjunction	-2096 Mar 18 j 07:54	10°✕11'58	-16°-25'-58
direct	-2105 Dec 02 j 23:39	0°✕52'51		minimum elong	-2096 Mar 18 j 08:02	10°✕11'59	16°25'59
				max. Earth dist.	-2096 Mar 19 j 14:23	10°✕13'44	49.80304 AU
conjunction	-2104 Mar 10 j 06:30	2°✕21'11	-16°-49'-55	retrograde	-2096 Jun 29 j 07:44	11°✕42'38	
minimum elong	-2104 Mar 10 j 06:36	2°✕21'11	16°49'58	opposition	-2096 Sep 20 j 20:23	10°✕42'20	-17°-4'-21
max. Earth dist.	-2104 Mar 11 j 21:40	2°✕23'28	49.38342 AU	min. Earth dist.	-2096 Sep 19 j 17:00	10°✕43'38	47.90714 AU
retrograde	-2104 Jun 21 j 11:59	3°✕53'11		direct	-2096 Dec 11 j 00:11	9°✕43'03	
min. Earth dist.	-2104 Sep 11 j 14:10	2°✕54'07	47.50656 AU	conjunction	-2095 Mar 19 j 14:01	11°✕10'14	-16°-21'-44
opposition	-2104 Sep 13 j 02:38	2°✕52'22	-17°-30'-46	minimum elong	-2095 Mar 19 j 14:10	11°✕10'14	16°21'47
direct	-2104 Dec 03 j 03:24	1°✕52'44		max. Earth dist.	-2095 Mar 20 j 20:03	11°✕11'57	49.84018 AU
conjunction	-2103 Mar 11 j 13:03	3°✕20'53	-16°-47'-52	retrograde	-2095 Jun 30 j 12:04	12°✕40'47	
minimum elong	-2103 Mar 11 j 13:10	3°✕20'54	16°47'54	min. Earth dist.	-2095 Sep 20 j 22:33	11°✕41'51	47.94132 AU
max. Earth dist.	-2103 Mar 13 j 03:45	3°✕23'08	49.44937 AU	opposition	-2095 Sep 22 j 01:12	11°✕40'35	-16°-59'-48
retrograde	-2103 Jun 22 j 19:10	4°✕52'41		direct	-2095 Dec 12 j 07:01	10°✕41'22	
min. Earth dist.	-2103 Sep 12 j 21:41	3°✕53'35	47.56964 AU	conjunction	-2094 Mar 20 j 20:02	12°✕08'29	-16°-17'-16
opposition	-2103 Sep 14 j 08:10	3°✕51'56	-17°-28'-26	minimum elong	-2094 Mar 20 j 20:11	12°✕08'29	16°17'17
direct	-2103 Dec 04 j 08:03	2°✕52'19		max. Earth dist.	-2094 Mar 21 j 23:35	12°✕10'03	49.87284 AU
conjunction	-2102 Mar 12 j 19:28	4°✕20'19	-16°-45'-33	retrograde	-2094 Jul 01 j 20:21	13°✕38'58	
minimum elong	-2102 Mar 12 j 19:34	4°✕20'19	16°45'37	min. Earth dist.	-2094 Sep 22 j 05:03	12°✕40'02	47.97076 AU
max. Earth dist.	-2102 Mar 14 j 08:21	4°✕22'27	49.51062 AU	opposition	-2094 Sep 23 j 06:11	12°✕38'50	-16°-55'-00
retrograde	-2102 Jun 24 j 00:43	5°✕51'53		direct	-2094 Dec 13 j 10:20	11°✕39'40	
min. Earth dist.	-2102 Sep 14 j 03:18	4°✕52'50	47.62821 AU	conjunction	-2093 Mar 22 j 02:08	13°✕06'44	-16°-12'-34
opposition	-2102 Sep 15 j 13:32	4°✕51'11	-17°-25'-51	minimum elong	-2093 Mar 22 j 02:18	13°✕06'44	16°12'36
direct	-2102 Dec 05 j 13:11	3°✕51'36		max. Earth dist.	-2093 Mar 23 j 05:03	13°✕08'16	49.90033 AU
conjunction	-2101 Mar 14 j 01:40	5°✕19'26	-16°-42'-59	retrograde	-2093 Jul 03 j 03:30	14°✕37'07	
minimum elong	-2101 Mar 14 j 01:48	5°✕19'27	16°43'01	min. Earth dist.	-2093 Sep 23 j 11:57	13°✕38'09	47.99470 AU
max. Earth dist.	-2101 Mar 15 j 13:12	5°✕21'30	49.56752 AU	opposition	-2093 Sep 24 j 11:06	13°✕37'03	-16°-49'-58
retrograde	-2101 Jun 25 j 03:51	6°✕50'50		direct	-2093 Dec 14 j 13:53	12°✕37'56	
min. Earth dist.	-2101 Sep 15 j 10:37	5°✕51'43	47.68281 AU	conjunction	-2092 Mar 22 j 08:08	14°✕04'56	-16°-7'-38
opposition	-2101 Sep 16 j 18:52	5°✕50'10	-17°-22'-59				

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Attention, astronomical year style is used: The year -2092 in astronomical counting style is the year 2093 BCE in historical counting style.

minimum elong	-2092 Mar 22 j 08:17	14° ✕ 04'56	16°07'39	opposition	-2084 Oct 02 j 04:29	22° ✕ 15'30	-15°-53'-29
max. Earth dist.	-2092 Mar 23 j 08:53	14° ✕ 06'21	49.92248 AU	min. Earth dist.	-2084 Oct 01 j 15:02	22° ✕ 16'09	48.01315 AU
retrograde	-2092 Jul 03 j 10:19	15° ✕ 35'12		direct	-2084 Dec 22 j 13:07	21° ✕ 16'26	
opposition	-2092 Sep 24 j 15:54	14° ✕ 35'11	-16°-44'-42				
min. Earth dist.	-2092 Sep 23 j 17:15	14° ✕ 36'16	48.01323 AU	conjunction	-2083 Mar 31 j 11:46	22° ✕ 43'01	-15°-12'-14
direct	-2092 Dec 14 j 17:16	13° ✕ 36'05		minimum elong	-2083 Mar 31 j 11:56	22° ✕ 43'01	15°12'14
				max. Earth dist.	-2083 Apr 01 j 02:17	22° ✕ 43'50	49.93311 AU
conjunction	-2091 Mar 23 j 14:01	15° ✕ 03'01	-16°-2'-28	retrograde	-2083 Jul 12 j 06:12	24° ✕ 12'34	
minimum elong	-2091 Mar 23 j 14:10	15° ✕ 03'02	16°02'30	opposition	-2083 Oct 03 j 08:57	23° ✕ 12'48	-15°-45'-54
max. Earth dist.	-2091 Mar 24 j 13:03	15° ✕ 04'20	49.93916 AU	min. Earth dist.	-2083 Oct 02 j 21:08	23° ✕ 13'21	47.99792 AU
retrograde	-2091 Jul 04 j 13:12	16° ✕ 33'11		direct	-2083 Dec 23 j 16:54	22° ✕ 13'44	
opposition	-2091 Sep 25 j 20:47	15° ✕ 33'12	-16°-39'-12				
min. Earth dist.	-2091 Sep 25 j 00:34	15° ✕ 34'09	48.02647 AU	conjunction	-2082 Apr 01 j 17:34	23° ✕ 40'20	-15°-4'-48
direct	-2091 Dec 16 j 00:38	14° ✕ 34'06		minimum elong	-2082 Apr 01 j 17:45	23° ✕ 40'21	15°04'49
				max. Earth dist.	-2082 Apr 02 j 06:09	23° ✕ 41'03	49.91699 AU
conjunction	-2090 Mar 24 j 20:02	16° ✕ 00'57	-15°-57'-5	retrograde	-2082 Jul 13 j 14:03	25° ✕ 09'51	
minimum elong	-2090 Mar 24 j 20:13	16° ✕ 00'58	15°57'06	opposition	-2082 Oct 04 j 13:14	24° ✕ 10'07	-15°-38'-4
max. Earth dist.	-2090 Mar 25 j 18:25	16° ✕ 02'14	49.95091 AU	min. Earth dist.	-2082 Oct 04 j 02:01	24° ✕ 10'39	47.97826 AU
retrograde	-2090 Jul 05 j 15:21	17° ✕ 31'01		direct	-2082 Dec 24 j 19:01	23° ✕ 11'04	
min. Earth dist.	-2090 Sep 26 j 05:45	16° ✕ 31'59	48.03491 AU				
opposition	-2090 Sep 27 j 01:18	16° ✕ 31'03	-16°-33'-28	conjunction	-2081 Apr 02 j 23:24	24° ✕ 37'41	-14°-57'-9
direct	-2090 Dec 17 j 09:00	15° ✕ 31'57		minimum elong	-2081 Apr 02 j 23:35	24° ✕ 37'42	14°57'09
				max. Earth dist.	-2081 Apr 03 j 10:14	24° ✕ 38'18	49.89598 AU
conjunction	-2089 Mar 26 j 01:47	16° ✕ 58'44	-15°-51'-27	retrograde	-2081 Jul 14 j 18:29	26° ✕ 07'10	
minimum elong	-2089 Mar 26 j 01:56	16° ✕ 58'45	15°51'29	opposition	-2081 Oct 05 j 17:51	25° ✕ 07'28	-15°-30'-1
max. Earth dist.	-2089 Mar 26 j 21:46	16° ✕ 59'53	49.95822 AU	min. Earth dist.	-2081 Oct 05 j 09:03	25° ✕ 07'53	47.95350 AU
retrograde	-2089 Jul 06 j 22:58	18° ✕ 28'41		direct	-2081 Dec 26 j 00:12	24° ✕ 08'25	
min. Earth dist.	-2089 Sep 27 j 11:38	17° ✕ 29'37	48.03936 AU				
opposition	-2089 Sep 28 j 05:58	17° ✕ 28'44	-16°-27'-28	conjunction	-2080 Apr 03 j 05:09	25° ✕ 35'02	-14°-49'-16
direct	-2089 Dec 18 j 12:22	16° ✕ 29'38		minimum elong	-2080 Apr 03 j 05:21	25° ✕ 35'03	14°49'18
				max. Earth dist.	-2080 Apr 03 j 15:10	25° ✕ 35'36	49.86983 AU
conjunction	-2088 Mar 26 j 07:26	17° ✕ 56'21	-15°-45'-34	retrograde	-2080 Jul 14 j 20:29	27° ✕ 04'30	
minimum elong	-2088 Mar 26 j 07:37	17° ✕ 56'22	15°45'35	opposition	-2080 Oct 05 j 22:19	26° ✕ 04'47	-15°-21'-44
max. Earth dist.	-2088 Mar 27 j 03:19	17° ✕ 57'29	49.96173 AU	min. Earth dist.	-2080 Oct 05 j 14:13	26° ✕ 05'11	47.92337 AU
retrograde	-2088 Jul 07 j 05:08	19° ✕ 26'12		direct	-2080 Dec 26 j 08:10	25° ✕ 05'43	
opposition	-2088 Sep 28 j 10:37	18° ✕ 26'17	-16°-21'-13				
min. Earth dist.	-2088 Sep 27 j 17:43	18° ✕ 27'05	48.04015 AU	conjunction	-2079 Apr 04 j 10:56	26° ✕ 32'21	-14°-41'-11
direct	-2088 Dec 18 j 16:39	17° ✕ 27'10		minimum elong	-2079 Apr 04 j 11:08	26° ✕ 32'22	14°41'11
				max. Earth dist.	-2079 Apr 04 j 18:14	26° ✕ 32'46	49.83840 AU
conjunction	-2087 Mar 27 j 13:08	18° ✕ 53'49	-15°-39'-25	retrograde	-2079 Jul 16 j 02:45	28° ✕ 01'47	
minimum elong	-2087 Mar 27 j 13:17	18° ✕ 53'50	15°39'26	opposition	-2079 Oct 07 j 02:43	27° ✕ 02'05	-15°-13'-13
max. Earth dist.	-2087 Mar 28 j 07:31	18° ✕ 54'52	49.96203 AU	min. Earth dist.	-2079 Oct 06 j 20:16	27° ✕ 02'23	47.88817 AU
retrograde	-2087 Jul 08 j 10:48	20° ✕ 23'35		direct	-2079 Dec 27 j 12:29	26° ✕ 02'58	
opposition	-2087 Sep 29 j 15:01	19° ✕ 23'40	-16°-14'-41				
min. Earth dist.	-2087 Sep 28 j 22:15	19° ✕ 24'28	48.03790 AU	conjunction	-2078 Apr 05 j 16:53	27° ✕ 29'37	-14°-32'-52
direct	-2087 Dec 19 j 20:01	18° ✕ 24'34		minimum elong	-2078 Apr 05 j 17:04	27° ✕ 29'37	14°32'54
				max. Earth dist.	-2078 Apr 05 j 23:38	27° ✕ 30'00	49.80202 AU
conjunction	-2086 Mar 28 j 18:50	19° ✕ 51'11	-15°-33'-1	retrograde	-2078 Jul 17 j 08:39	28° ✕ 59'01	
minimum elong	-2086 Mar 28 j 19:01	19° ✕ 51'12	15°33'02	opposition	-2078 Oct 08 j 07:10	27° ✕ 59'18	-15°-4'-28
max. Earth dist.	-2086 Mar 29 j 11:57	19° ✕ 52'10	49.95927 AU	min. Earth dist.	-2078 Oct 08 j 02:26	27° ✕ 59'32	47.84817 AU
retrograde	-2086 Jul 09 j 14:38	21° ✕ 20'52		direct	-2078 Dec 28 j 16:50	27° ✕ 00'10	
opposition	-2086 Sep 30 j 19:38	20° ✕ 20'59	-16°-7'-53				
min. Earth dist.	-2086 Sep 30 j 04:41	20° ✕ 21'41	48.03269 AU	conjunction	-2077 Apr 06 j 22:32	28° ✕ 26'49	-14°-24'-19
direct	-2086 Dec 21 j 01:51	19° ✕ 21'52		minimum elong	-2077 Apr 06 j 22:44	28° ✕ 26'50	14°24'19
				max. Earth dist.	-2077 Apr 07 j 03:32	28° ✕ 27'06	49.76128 AU
conjunction	-2085 Mar 30 j 00:29	20° ✕ 48'28	-15°-26'-20	retrograde	-2077 Jul 18 j 14:56	29° ✕ 56'12	
minimum elong	-2085 Mar 30 j 00:39	20° ✕ 48'29	15°26'22	opposition	-2077 Oct 09 j 11:28	28° ✕ 56'28	-14°-55'-29
max. Earth dist.	-2085 Mar 30 j 17:20	20° ✕ 49'26	49.95371 AU	min. Earth dist.	-2077 Oct 09 j 07:03	28° ✕ 56'41	47.80412 AU
retrograde	-2085 Jul 10 j 16:59	22° ✕ 18'05		direct	-2077 Dec 29 j 19:51	27° ✕ 57'17	
min. Earth dist.	-2085 Oct 01 j 09:17	21° ✕ 18'56	48.02446 AU				
opposition	-2085 Oct 02 j 00:01	21° ✕ 18'14	-16°00'-49	conjunction	-2076 Apr 07 j 04:13	29° ✕ 23'59	-14°-15'-31
direct	-2085 Dec 22 j 09:10	20° ✕ 19'09		minimum elong	-2076 Apr 07 j 04:24	29° ✕ 24'00	14°15'32
				max. Earth dist.	-2076 Apr 07 j 07:47	29° ✕ 24'11	49.71665 AU
conjunction	-2084 Mar 30 j 06:01	21° ✕ 45'44	-15°-19'-25	retrograde	-2076 May 04 j 09:17	0° ° °	
minimum elong	-2084 Mar 30 j 06:13	21° ✕ 45'45	15°19'27	opposition	-2076 Jul 18 j 19:07	0° ° °53'21	
max. Earth dist.	-2084 Mar 30 j 20:51	21° ✕ 46'34	49.94513 AU				
retrograde	-2084 Jul 10 j 23:27	23° ✕ 15'19					
				opposition	-2076 Oct 09 j 15:52	29° ✕ 53'37	-14°-46'-14

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Attention, astronomical year style is used: The year -2076 in astronomical counting style is the year 2077 BCE in historical counting style.

min. Earth dist.	-2076 Oct 09 j 13:26	29° ♃ 53'44	47.75653 AU	min. Earth dist.	-2068 Oct 17 j 10:27	7° ♃ 34'02	47.25390 AU
direct	-2076 Dec 30 j 01:26	28° ♃ 54'24		direct	-2067 Jan 06 j 16:20	6° ♃ 34'55	
	-2075 Mar 23 j 17:30	0° ♃					
conjunction	-2075 Apr 08 j 09:59	0° ♃ 21'08	-14°-6'-28	conjunction	-2067 Apr 16 j 09:25	8° ♃ 02'26	-12°-45'-8
minimum elong	-2075 Apr 08 j 10:11	0° ♃ 21'09	14°06'29	minimum elong	-2067 Apr 16 j 09:37	8° ♃ 02'27	12°45'09
max. Earth dist.	-2075 Apr 08 j 13:16	0° ♃ 21'20	49.66884 AU	max. Earth dist.	-2067 Apr 16 j 01:14	8° ♃ 01'59	49.16176 AU
retrograde	-2075 Jul 19 j 21:23	1° ♃ 50'31		retrograde	-2067 Jul 27 j 21:38	9° ♃ 32'18	
opposition	-2075 Oct 10 j 20:11	0° ♃ 50'46	-14°-36'-44	opposition	-2067 Oct 18 j 08:11	8° ♃ 32'31	-13°-11'-27
min. Earth dist.	-2075 Oct 10 j 17:56	0° ♃ 50'52	47.70574 AU	min. Earth dist.	-2067 Oct 18 j 15:49	8° ♃ 32'09	47.17042 AU
	-2075 Dec 03 j 04:19	30° ♃		direct	-2066 Jan 07 j 18:59	7° ♃ 32'59	
direct	-2075 Dec 31 j 08:52	29° ♃ 51'31		conjunction	-2066 Apr 17 j 15:40	9° ♃ 00'37	-12°-33'-56
	-2074 Jan 28 j 06:54	0° ♃		minimum elong	-2066 Apr 17 j 15:53	9° ♃ 00'38	12°33'56
conjunction	-2074 Apr 09 j 15:40	1° ♃ 18'19	-13°-57'-10	max. Earth dist.	-2066 Apr 17 j 05:39	9° ♃ 00'03	49.07718 AU
minimum elong	-2074 Apr 09 j 15:52	1° ♃ 18'20	13°57'11	retrograde	-2066 Jul 29 j 03:26	10° ♃ 30'31	
max. Earth dist.	-2074 Apr 09 j 16:49	1° ♃ 18'23	49.61797 AU	opposition	-2066 Oct 19 j 12:50	9° ♃ 30'41	-12°-59'-43
retrograde	-2074 Jul 21 j 03:29	2° ♃ 47'44		min. Earth dist.	-2066 Oct 19 j 22:46	9° ♃ 30'12	47.08197 AU
opposition	-2074 Oct 12 j 00:32	1° ♃ 47'59	-14°-26'-57	direct	-2065 Jan 09 j 00:04	8° ♃ 31'04	
min. Earth dist.	-2074 Oct 11 j 23:34	1° ♃ 48'02	47.65214 AU	conjunction	-2065 Apr 18 j 21:57	9° ♃ 58'49	-12°-22'-29
direct	-2073 Jan 01 j 12:54	0° ♃ 48'43		minimum elong	-2065 Apr 18 j 22:09	9° ♃ 58'49	12°22'30
conjunction	-2073 Apr 10 j 21:30	2° ♃ 15'35	-13°-47'-37	max. Earth dist.	-2065 Apr 18 j 11:18	9° ♃ 58'12	48.98807 AU
minimum elong	-2073 Apr 10 j 21:43	2° ♃ 15'36	13°47'38	retrograde	-2065 Jul 30 j 06:17	11° ♃ 28'46	
max. Earth dist.	-2073 Apr 10 j 22:32	2° ♃ 15'38	49.56429 AU	opposition	-2065 Oct 20 j 17:27	10° ♃ 28'51	-12°-47'-44
retrograde	-2073 Jul 22 j 09:54	3° ♃ 45'03		min. Earth dist.	-2065 Oct 21 j 03:47	10° ♃ 28'21	46.98918 AU
opposition	-2073 Oct 13 j 05:00	2° ♃ 45'18	-14°-16'-55	direct	-2064 Jan 10 j 07:34	9° ♃ 29'09	
min. Earth dist.	-2073 Oct 13 j 05:10	2° ♃ 45'18	47.59558 AU	conjunction	-2064 Apr 19 j 03:58	10° ♃ 57'00	-12°-10'-48
direct	-2072 Jan 02 j 16:48	1° ♃ 46'01		minimum elong	-2064 Apr 19 j 04:11	10° ♃ 57'01	12°10'48
conjunction	-2072 Apr 11 j 03:07	3° ♃ 12'59	-13°-37'-48	max. Earth dist.	-2064 Apr 18 j 15:03	10° ♃ 56'16	48.89487 AU
minimum elong	-2072 Apr 11 j 03:18	3° ♃ 13'00	13°37'48	retrograde	-2064 Jul 30 j 11:40	12° ♃ 27'02	
max. Earth dist.	-2072 Apr 11 j 02:36	3° ♃ 12'57	49.50778 AU	opposition	-2064 Oct 20 j 22:12	11° ♃ 27'03	-12°-35'-30
retrograde	-2072 Jul 22 j 18:34	4° ♃ 42'30		min. Earth dist.	-2064 Oct 21 j 10:05	11° ♃ 26'29	46.89268 AU
opposition	-2072 Oct 13 j 09:24	3° ♃ 42'46	-14°-6'-36	direct	-2063 Jan 10 j 12:59	10° ♃ 27'15	
min. Earth dist.	-2072 Oct 13 j 09:52	3° ♃ 42'45	47.53599 AU	conjunction	-2063 Apr 20 j 10:22	11° ♃ 55'14	-11°-58'-52
direct	-2071 Jan 02 j 18:10	2° ♃ 43'28		minimum elong	-2063 Apr 20 j 10:33	11° ♃ 55'14	11°58'52
conjunction	-2071 Apr 12 j 09:02	4° ♃ 10'33	-13°-27'-44	max. Earth dist.	-2063 Apr 19 j 21:08	11° ♃ 54'28	48.79811 AU
minimum elong	-2071 Apr 12 j 09:14	4° ♃ 10'34	13°27'45	retrograde	-2063 Jul 31 j 16:17	13° ♃ 25'21	
max. Earth dist.	-2071 Apr 12 j 07:10	4° ♃ 10'27	49.44781 AU	opposition	-2063 Oct 22 j 02:52	12° ♃ 25'18	-12°-23'00
retrograde	-2071 Jul 24 j 00:36	5° ♃ 40'08		min. Earth dist.	-2063 Oct 22 j 15:55	12° ♃ 24'40	46.79276 AU
opposition	-2071 Oct 14 j 13:52	4° ♃ 40'25	-13°-56'-3	direct	-2062 Jan 11 j 19:08	11° ♃ 25'24	
min. Earth dist.	-2071 Oct 14 j 16:38	4° ♃ 40'17	47.47269 AU	conjunction	-2062 Apr 21 j 16:42	12° ♃ 53'32	-11°-46'-41
direct	-2070 Jan 03 j 21:51	3° ♃ 41'07		minimum elong	-2062 Apr 21 j 16:55	12° ♃ 53'32	11°46'41
conjunction	-2070 Apr 13 j 15:08	5° ♃ 08'19	-13°-17'-25	max. Earth dist.	-2062 Apr 21 j 01:52	12° ♃ 52'41	48.69829 AU
minimum elong	-2070 Apr 13 j 15:20	5° ♃ 08'19	13°17'25	retrograde	-2062 Aug 02 j 00:42	14° ♃ 23'45	
max. Earth dist.	-2070 Apr 13 j 12:31	5° ♃ 08'10	49.38388 AU	opposition	-2062 Oct 23 j 07:39	13° ♃ 23'39	-12°-10'-14
retrograde	-2070 Jul 25 j 02:34	6° ♃ 37'57		min. Earth dist.	-2062 Oct 23 j 20:59	13° ♃ 23'00	46.68995 AU
opposition	-2070 Oct 15 j 18:20	5° ♃ 38'15	-13°-45'-15	direct	-2061 Jan 12 j 21:36	12° ♃ 23'39	
min. Earth dist.	-2070 Oct 15 j 21:39	5° ♃ 38'06	47.40492 AU	conjunction	-2061 Apr 22 j 22:58	13° ♃ 51'57	-11°-34'-14
direct	-2069 Jan 05 j 06:03	4° ♃ 38'55		minimum elong	-2061 Apr 22 j 23:10	13° ♃ 51'58	11°34'14
conjunction	-2069 Apr 14 j 21:02	6° ♃ 06'14	-13°-6'-53	max. Earth dist.	-2061 Apr 22 j 06:56	13° ♃ 51'02	48.59549 AU
minimum elong	-2069 Apr 14 j 21:15	6° ♃ 06'15	13°06'54	retrograde	-2061 Aug 03 j 08:13	15° ♃ 22'18	
max. Earth dist.	-2069 Apr 14 j 15:46	6° ♃ 05'56	49.31510 AU	opposition	-2061 Oct 24 j 12:37	14° ♃ 22'09	-11°-57'-11
retrograde	-2069 Jul 26 j 07:42	7° ♃ 35'58		min. Earth dist.	-2061 Oct 25 j 03:51	14° ♃ 21'25	46.58424 AU
opposition	-2069 Oct 16 j 22:58	6° ♃ 36'15	-13°-34'-12	direct	-2060 Jan 14 j 01:00	13° ♃ 22'05	
min. Earth dist.	-2069 Oct 17 j 04:06	6° ♃ 36'00	47.33214 AU	conjunction	-2060 Apr 23 j 05:28	14° ♃ 50'35	-11°-21'-31
direct	-2068 Jan 06 j 11:42	5° ♃ 36'53		minimum elong	-2060 Apr 23 j 05:41	14° ♃ 50'35	11°21'32
conjunction	-2068 Apr 15 j 03:16	7° ♃ 04'18	-12°-56'-7	max. Earth dist.	-2060 Apr 22 j 13:02	14° ♃ 49'38	48.48994 AU
minimum elong	-2068 Apr 15 j 03:28	7° ♃ 04'19	12°56'07	retrograde	-2060 Aug 03 j 11:50	16° ♃ 21'04	
max. Earth dist.	-2068 Apr 14 j 21:18	7° ♃ 03'58	49.24107 AU	opposition	-2060 Oct 24 j 17:26	15° ♃ 20'52	-11°-43'-52
retrograde	-2068 Jul 26 j 13:44	8° ♃ 34'06		min. Earth dist.	-2060 Oct 25 j 08:47	15° ♃ 20'08	46.47554 AU
opposition	-2068 Oct 17 j 03:35	7° ♃ 34'21	-13°-22'-57	direct	-2059 Jan 14 j 08:21	14° ♃ 20'45	

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Attention, astronomical year style is used: The year -2059 in astronomical counting style is the year 2060 BCE in historical counting style.

conjunction	-2059 Apr 24 j 11:59	15°♃49'27	-11°-8'-32	retrograde	-2051 Aug 13 j 01:40	25°♃22'10	
minimum elong	-2059 Apr 24 j 12:10	15°♃49'28	11°08'32	opposition	-2051 Nov 02 j 17:33	24°♃21'16	-9°-32'-25
max. Earth dist.	-2059 Apr 23 j 17:14	15°♃48'22	48.38115 AU	min. Earth dist.	-2051 Nov 03 j 21:22	24°♃19'54	45.30090 AU
retrograde	-2059 Aug 04 j 17:19	17°♃20'07		direct	-2050 Jan 23 j 07:50	23°♃20'07	
opposition	-2059 Oct 25 j 22:28	16°♃19'53	-11°-30'-17	max. Earth dist.	-2050 May 02 j 21:18	24°♃49'13	47.20139 AU
min. Earth dist.	-2059 Oct 26 j 15:33	16°♃19'04	46.36339 AU				
direct	-2058 Jan 15 j 14:19	15°♃19'42		conjunction	-2050 May 04 j 03:55	24°♃51'01	-9°00'-41
				minimum elong	-2050 May 04 j 04:06	24°♃51'01	9°00'41
conjunction	-2058 Apr 25 j 18:49	16°♃48'38	-10°-55'-19	retrograde	-2050 Aug 14 j 07:17	26°♃23'25	
minimum elong	-2058 Apr 25 j 19:01	16°♃48'38	10°55'19	opposition	-2050 Nov 03 j 23:13	25°♃22'24	-9°-16'-27
max. Earth dist.	-2058 Apr 24 j 23:41	16°♃47'31	48.26845 AU	min. Earth dist.	-2050 Nov 05 j 02:56	25°♃21'02	45.15141 AU
retrograde	-2058 Aug 05 j 23:20	18°♃19'29		direct	-2049 Jan 24 j 15:11	24°♃21'06	
opposition	-2058 Oct 27 j 03:31	17°♃19'13	-11°-16'-27	max. Earth dist.	-2049 May 04 j 02:46	25°♃50'22	47.05216 AU
min. Earth dist.	-2058 Oct 27 j 22:06	17°♃18'19	46.24693 AU				
direct	-2057 Jan 16 j 19:43	16°♃18'57		conjunction	-2049 May 05 j 11:24	25°♃52'17	-8°-45'-11
max. Earth dist.	-2057 Apr 26 j 04:18	17°♃46'53	48.15131 AU	minimum elong	-2049 May 05 j 11:35	25°♃52'18	8°45'11
				retrograde	-2049 Aug 15 j 12:54	27°♃24'56	
conjunction	-2057 Apr 27 j 01:37	17°♃48'07	-10°-41'-51	opposition	-2049 Nov 05 j 05:11	26°♃23'49	-9°00'-13
minimum elong	-2057 Apr 27 j 01:48	17°♃48'07	10°41'50	min. Earth dist.	-2049 Nov 06 j 10:24	26°♃22'22	44.99961 AU
retrograde	-2057 Aug 07 j 08:17	19°♃19'10		direct	-2048 Jan 25 j 22:48	25°♃22'23	
opposition	-2057 Oct 28 j 08:42	18°♃18'51	-11°-2'-21	max. Earth dist.	-2048 May 04 j 10:29	26°♃51'58	46.90055 AU
min. Earth dist.	-2057 Oct 29 j 04:03	18°♃17'54	46.12579 AU				
direct	-2056 Jan 17 j 22:18	17°♃18'30		conjunction	-2048 May 05 j 19:04	26°♃53'53	-8°-29'-25
max. Earth dist.	-2056 Apr 26 j 09:24	18°♃46'33	48.02906 AU	minimum elong	-2048 May 05 j 19:14	26°♃53'54	8°29'24
				retrograde	-2048 Aug 15 j 17:40	28°♃26'48	
conjunction	-2056 Apr 27 j 08:28	18°♃47'54	-10°-28'-8	opposition	-2048 Nov 05 j 11:15	27°♃25'35	-8°-43'-41
minimum elong	-2056 Apr 27 j 08:40	18°♃47'54	10°28'08	min. Earth dist.	-2048 Nov 06 j 17:19	27°♃24'05	44.84518 AU
retrograde	-2056 Aug 07 j 15:39	20°♃19'07		direct	-2047 Jan 26 j 07:14	26°♃24'01	
opposition	-2056 Oct 28 j 14:09	19°♃18'44	-10°-48'-1	max. Earth dist.	-2047 May 05 j 16:28	27°♃53'49	46.74625 AU
min. Earth dist.	-2056 Oct 29 j 11:51	19°♃17'41	45.99942 AU				
direct	-2055 Jan 18 j 03:27	18°♃18'17		conjunction	-2047 May 07 j 02:56	27°♃55'51	-8°-13'-21
				minimum elong	-2047 May 07 j 03:07	27°♃55'52	8°13'21
conjunction	-2055 Apr 28 j 15:38	19°♃47'56	-10°-14'-11	retrograde	-2047 Aug 17 j 02:39	29°♃29'03	
minimum elong	-2055 Apr 28 j 15:50	19°♃47'56	10°14'11	opposition	-2047 Nov 06 j 17:16	28°♃27'45	-8°-26'-51
max. Earth dist.	-2055 Apr 27 j 15:37	19°♃46'32	47.90173 AU	min. Earth dist.	-2047 Nov 08 j 00:03	28°♃26'13	44.68788 AU
retrograde	-2055 Aug 08 j 20:34	21°♃19'19		direct	-2046 Jan 27 j 11:37	27°♃26'03	
opposition	-2055 Oct 29 j 19:22	20°♃18'51	-10°-33'-25	max. Earth dist.	-2046 May 06 j 23:21	28°♃56'07	46.58852 AU
min. Earth dist.	-2055 Oct 30 j 17:39	20°♃17'46	45.86796 AU				
direct	-2054 Jan 19 j 11:13	19°♃18'17		conjunction	-2046 May 08 j 11:06	28°♃58'14	-7°-57'-2
				minimum elong	-2046 May 08 j 11:16	28°♃58'14	7°57'01
conjunction	-2054 Apr 29 j 22:45	20°♃48'10	-10°00'00		-2046 Jun 24 j 14:53	0°♂	
minimum elong	-2054 Apr 29 j 22:57	20°♃48'11	10°00'01	retrograde	-2046 Aug 18 j 11:58	0°♂31'44	
max. Earth dist.	-2054 Apr 28 j 20:03	20°♃46'37	47.76940 AU		-2046 Oct 12 j 22:53	30°♂♃	
retrograde	-2054 Aug 10 j 02:35	22°♃19'45		opposition	-2046 Nov 07 j 23:43	29°♃30'20	-8°-9'-45
opposition	-2054 Oct 31 j 00:52	21°♃19'11	-10°-18'-34	min. Earth dist.	-2046 Nov 09 j 08:35	29°♃28'42	44.52687 AU
min. Earth dist.	-2054 Nov 01 j 01:06	21°♃18'00	45.73186 AU	direct	-2045 Jan 28 j 16:25	28°♃28'30	
direct	-2053 Jan 20 j 17:48	20°♃18'29		max. Earth dist.	-2045 May 08 j 06:43	29°♃58'52	46.42685 AU
max. Earth dist.	-2053 Apr 30 j 02:48	21°♃47'00	47.63261 AU				
				conjunction	-2045 May 09 j 19:16	0°♂01'03	-7°-40'-27
conjunction	-2053 May 01 j 05:53	21°♃48'35	-9°-45'-34	minimum elong	-2045 May 09 j 19:27	0°♂01'03	7°40'27
minimum elong	-2053 May 01 j 06:05	21°♃48'36	9°45'34		-2045 May 09 j 01:43	0°♂	
retrograde	-2053 Aug 11 j 06:55	23°♃20'22		retrograde	-2045 Aug 19 j 20:54	1°♂34'51	
opposition	-2053 Nov 01 j 06:22	22°♃19'41	-10°-3'-28	opposition	-2045 Nov 09 j 06:11	0°♂33'20	-7°-52'-22
min. Earth dist.	-2053 Nov 02 j 07:40	22°♃18'27	45.59151 AU	min. Earth dist.	-2045 Nov 10 j 15:29	0°♂31'40	44.36156 AU
direct	-2052 Jan 22 j 01:20	21°♃18'51			-2045 Dec 08 j 17:18	30°♂♃	
max. Earth dist.	-2052 Apr 30 j 08:09	22°♃47'30	47.49204 AU	direct	-2044 Jan 29 j 23:13	29°♃31'21	
					-2044 Mar 21 j 17:52	0°♂	
conjunction	-2052 May 01 j 13:03	22°♃49'11	-9°-30'-52	max. Earth dist.	-2044 May 08 j 12:28	1°♂01'56	46.26055 AU
minimum elong	-2052 May 01 j 13:14	22°♃49'12	9°30'53				
retrograde	-2052 Aug 11 j 15:56	24°♃21'10		conjunction	-2044 May 10 j 03:42	1°♂04'16	-7°-23'-36
opposition	-2052 Nov 01 j 11:48	23°♃20'23	-9°-48'-5	minimum elong	-2044 May 10 j 03:52	1°♂04'17	7°23'35
min. Earth dist.	-2052 Nov 02 j 13:44	23°♃19'07	45.44776 AU	retrograde	-2044 Aug 20 j 05:15	2°♂38'23	
direct	-2051 Jan 22 j 04:40	22°♃19'23		opposition	-2044 Nov 09 j 12:51	1°♂36'44	-7°-34'-42
				min. Earth dist.	-2044 Nov 11 j 00:20	1°♂34'58	44.19159 AU
conjunction	-2051 May 02 j 20:27	23°♃49'59	-9°-15'-55	direct	-2043 Jan 30 j 06:24	0°♂34'35	
minimum elong	-2051 May 02 j 20:39	23°♃50'00	9°15'54	max. Earth dist.	-2043 May 09 j 20:36	2°♂05'30	46.08947 AU
max. Earth dist.	-2051 May 01 j 14:19	23°♃48'14	47.34809 AU				

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Attention, astronomical year style is used: The year -2043 in astronomical counting style is the year 2044 BCE in historical counting style.

conjunction	-2043 May 11 j 12:29	2°♃07'53	-7°-6'-29	opposition	-2035 Nov 19 j 08:02	11°♃25'51	-4°-42'-43
minimum elong	-2043 May 11 j 12:39	2°♃07'54	7°06'29	min. Earth dist.	-2035 Nov 21 j 04:22	11°♃23'35	42.49804 AU
retrograde	-2043 Aug 21 j 10:39	3°♃42'19		direct	-2034 Feb 09 j 01:40	10°♃21'56	
opposition	-2043 Nov 10 j 19:42	2°♃40'31	-7°-16'-46	max. Earth dist.	-2034 May 19 j 21:50	11°♃56'07	44.39247 AU
min. Earth dist.	-2043 Nov 12 j 08:15	2°♃38'41	44.01673 AU				
direct	-2042 Jan 31 j 15:42	1°♃38'11		conjunction	-2034 May 22 j 01:31	11°♃59'19	-4°-20'-9
max. Earth dist.	-2042 May 11 j 03:03	3°♃09'19	45.91372 AU	minimum elong	-2034 May 22 j 01:38	11°♃59'20	4°20'08
				retrograde	-2034 Sep 01 j 01:49	13°♃37'19	
conjunction	-2042 May 12 j 21:12	3°♃11'52	-6°-49'-7	opposition	-2034 Nov 20 j 16:34	12°♃34'06	-4°-22'-6
minimum elong	-2042 May 12 j 21:22	3°♃11'52	6°49'06	min. Earth dist.	-2034 Nov 22 j 15:04	12°♃31'43	42.29628 AU
retrograde	-2042 Aug 22 j 19:14	4°♃46'36		direct	-2033 Feb 10 j 09:03	11°♃29'58	
opposition	-2042 Nov 12 j 02:34	3°♃44'40	-6°-58'-33	max. Earth dist.	-2033 May 21 j 08:11	13°♃04'41	44.18975 AU
min. Earth dist.	-2042 Nov 13 j 16:12	3°♃42'47	43.83752 AU				
direct	-2041 Feb 01 j 21:59	2°♃42'08		conjunction	-2033 May 23 j 12:14	13°♃07'56	-4°00'-16
max. Earth dist.	-2041 May 12 j 10:46	4°♃13'34	45.73365 AU	minimum elong	-2033 May 23 j 12:20	13°♃07'57	4°00'14
				retrograde	-2033 Sep 02 j 10:04	14°♃46'25	
conjunction	-2041 May 14 j 06:10	4°♃16'12	-6°-31'-28	opposition	-2033 Nov 22 j 01:19	13°♃43'02	-4°-1'-11
minimum elong	-2041 May 14 j 06:19	4°♃16'12	6°31'29	min. Earth dist.	-2033 Nov 24 j 00:26	13°♃40'36	42.09067 AU
retrograde	-2041 Aug 24 j 05:09	5°♃51'17		direct	-2032 Feb 11 j 20:03	12°♃38'42	
opposition	-2041 Nov 13 j 09:45	4°♃49'10	-6°-40'-3	max. Earth dist.	-2032 May 21 j 16:30	14°♃13'48	43.98292 AU
min. Earth dist.	-2041 Nov 15 j 01:19	4°♃47'11	43.65432 AU				
direct	-2040 Feb 03 j 03:17	3°♃46'26		conjunction	-2032 May 23 j 23:02	14°♃17'14	-3°-40'-5
max. Earth dist.	-2040 May 12 j 18:55	5°♃18'13	45.55000 AU	minimum elong	-2032 May 23 j 23:08	14°♃17'14	3°40'04
					-2032 Jun 22 j 04:55	15°♃	
conjunction	-2040 May 14 j 15:08	5°♃20'54	-6°-13'-34	retrograde	-2032 Sep 02 j 19:19	15°♃56'12	
minimum elong	-2040 May 14 j 15:17	5°♃20'54	6°13'32		-2032 Nov 16 j 12:12	15°♃	
retrograde	-2040 Aug 24 j 14:35	6°♃56'19		opposition	-2032 Nov 22 j 10:23	14°♃52'38	-3°-39'-58
opposition	-2040 Nov 13 j 16:56	5°♃54'03	-6°-21'-15	min. Earth dist.	-2032 Nov 24 j 11:02	14°♃50'07	41.88083 AU
min. Earth dist.	-2040 Nov 15 j 08:35	5°♃52'03	43.46776 AU	direct	-2031 Feb 12 j 06:05	13°♃48'03	
direct	-2039 Feb 03 j 10:15	4°♃51'06		max. Earth dist.	-2031 May 07 j 06:56	15°♃	
max. Earth dist.	-2039 May 14 j 02:02	6°♃23'11	45.36308 AU		-2031 May 23 j 02:48	15°♃23'38	43.77152 AU
conjunction	-2039 May 16 j 00:22	6°♃26'00	-5°-55'-22	conjunction	-2031 May 25 j 10:24	15°♃27'09	-3°-19'-39
minimum elong	-2039 May 16 j 00:30	6°♃26'00	5°55'22	minimum elong	-2031 May 25 j 10:30	15°♃27'10	3°19'37
retrograde	-2039 Aug 25 j 23:09	8°♃01'47		retrograde	-2031 Sep 04 j 04:51	17°♃06'38	
opposition	-2039 Nov 15 j 00:20	6°♃59'21	-6°-2'-9	opposition	-2031 Nov 23 j 19:41	16°♃02'51	-3°-18'-27
min. Earth dist.	-2039 Nov 16 j 17:52	6°♃57'14	43.27837 AU	min. Earth dist.	-2031 Nov 25 j 22:10	16°♃00'13	41.66648 AU
direct	-2038 Feb 04 j 18:47	5°♃56'11			-2030 Jan 31 j 13:54	15°♃	
max. Earth dist.	-2038 May 15 j 11:37	7°♃28'43	45.17354 AU	direct	-2030 Feb 13 j 15:18	14°♃58'00	
					-2030 Feb 26 j 13:42	15°♃	
conjunction	-2038 May 17 j 09:52	7°♃31'32	-5°-36'-54	max. Earth dist.	-2030 May 24 j 12:44	16°♃34'03	43.55591 AU
minimum elong	-2038 May 17 j 10:00	7°♃31'33	5°36'53				
retrograde	-2038 Aug 27 j 05:11	9°♃07'43		conjunction	-2030 May 26 j 21:53	16°♃37'41	-2°-58'-55
opposition	-2038 Nov 16 j 08:00	8°♃05'07	-5°-42'-45	minimum elong	-2030 May 26 j 21:58	16°♃37'41	2°58'55
min. Earth dist.	-2038 Nov 18 j 01:56	8°♃02'58	43.08652 AU	retrograde	-2030 Sep 05 j 17:17	18°♃17'40	
direct	-2037 Feb 06 j 05:29	7°♃01'45		opposition	-2030 Nov 25 j 05:12	17°♃13'39	-2°-56'-38
max. Earth dist.	-2037 May 16 j 19:04	8°♃34'37	44.98177 AU	min. Earth dist.	-2030 Nov 27 j 08:04	17°♃11'00	41.44812 AU
				direct	-2029 Feb 14 j 22:46	16°♃08'31	
conjunction	-2037 May 18 j 19:12	8°♃37'35	-5°-18'-9	max. Earth dist.	-2029 May 25 j 22:20	17°♃45'01	43.33626 AU
minimum elong	-2037 May 18 j 19:19	8°♃37'35	5°18'08				
retrograde	-2037 Aug 28 j 14:53	10°♃14'10		conjunction	-2029 May 28 j 09:25	17°♃48'47	-2°-37'-55
opposition	-2037 Nov 17 j 15:50	9°♃11'25	-5°-23'-3	minimum elong	-2029 May 28 j 09:30	17°♃48'47	2°37'53
min. Earth dist.	-2037 Nov 19 j 10:26	9°♃09'14	42.89268 AU	retrograde	-2029 Sep 07 j 06:02	19°♃29'17	
direct	-2036 Feb 07 j 12:20	8°♃07'52		opposition	-2029 Nov 26 j 15:03	18°♃25'01	-2°-34'-31
max. Earth dist.	-2036 May 17 j 04:19	9°♃41'10	44.78783 AU	min. Earth dist.	-2029 Nov 28 j 20:02	18°♃22'15	41.22616 AU
				direct	-2028 Feb 16 j 08:04	17°♃19'36	
conjunction	-2036 May 19 j 05:05	9°♃44'10	-4°-59'-6	max. Earth dist.	-2028 May 26 j 10:09	18°♃56'39	43.11331 AU
minimum elong	-2036 May 19 j 05:13	9°♃44'11	4°59'06				
retrograde	-2036 Aug 29 j 00:43	11°♃21'13		conjunction	-2028 May 28 j 21:26	19°♃00'27	-2°-16'-38
opposition	-2036 Nov 17 j 23:51	10°♃18'19	-5°-3'-2	minimum elong	-2028 May 28 j 21:29	19°♃00'28	2°16'38
min. Earth dist.	-2036 Nov 19 j 19:59	10°♃16'03	42.69660 AU	retrograde	-2028 Sep 07 j 17:36	20°♃41'28	
direct	-2035 Feb 07 j 19:01	9°♃14'34		opposition	-2028 Nov 27 j 00:55	19°♃36'57	-2°-12'-5
max. Earth dist.	-2035 May 18 j 13:37	10°♃48'20	44.59167 AU	min. Earth dist.	-2028 Nov 29 j 06:13	19°♃34'09	41.00118 AU
				direct	-2027 Feb 16 j 20:17	18°♃31'13	
conjunction	-2035 May 20 j 15:12	10°♃51'24	-4°-39'-46	max. Earth dist.	-2027 May 27 j 20:03	20°♃08'45	42.88758 AU
minimum elong	-2035 May 20 j 15:18	10°♃51'25	4°39'46				
retrograde	-2035 Aug 30 j 13:08	12°♃28'55		conjunction	-2027 May 30 j 09:36	20°♃12'43	-1°-55'-4

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Attention, astronomical year style is used: The year -2027 in astronomical counting style is the year 2028 BCE in historical counting style.

minimum elong	-2027 May 30 j 09:39	20°♄12'43	1°55'03	max. Earth dist.	-2019 Jun 07 j 01:29	0°♃14'41	41.01559 AU
retrograde	-2027 Sep 09 j 05:54	21°♄54'16					
opposition	-2027 Nov 28 j 11:12	20°♄49'30	-1°-49'-22	conjunction	-2019 Jun 09 j 22:59	0°♃19'24	1°07'16
min. Earth dist.	-2027 Nov 30 j 17:50	20°♄46'36	40.77392 AU	minimum elong	-2019 Jun 09 j 22:57	0°♃19'24	1°07'18
direct	-2026 Feb 18 j 07:04	19°♄43'26		retrograde	-2019 Sep 19 j 16:41	2°♃06'25	
max. Earth dist.	-2026 May 29 j 08:23	21°♄21'35	42.65962 AU	opposition	-2019 Dec 08 j 09:36	0°♃59'40	1°23'10
				min. Earth dist.	-2019 Dec 11 j 00:04	0°♃56'13	38.89296 AU
conjunction	-2026 May 31 j 22:05	21°♄25'35	-1°-33'-14		-2018 Feb 01 j 08:01	30°♃	
minimum elong	-2026 May 31 j 22:07	21°♄25'35	1°33'13	direct	-2018 Feb 28 j 02:32	29°♄51'12	
retrograde	-2026 Sep 10 j 15:01	23°♄07'43			-2018 Mar 26 j 17:54	0°♃	
opposition	-2026 Nov 29 j 21:50	22°♄02'41	-1°-26'-20	max. Earth dist.	-2018 Jun 08 j 16:11	1°♃34'50	40.77011 AU
min. Earth dist.	-2026 Dec 02 j 05:18	21°♄59'44	40.54476 AU				
direct	-2025 Feb 19 j 19:08	20°♄56'20		conjunction	-2018 Jun 11 j 14:22	1°♃39'38	1°31'14
max. Earth dist.	-2025 May 30 j 19:57	22°♄35'02	42.43019 AU	minimum elong	-2018 Jun 11 j 14:19	1°♃39'38	1°31'16
				retrograde	-2018 Sep 21 j 09:48	3°♃27'25	
conjunction	-2025 Jun 02 j 10:44	22°♄39'08	-1°-11'-7	opposition	-2018 Dec 09 j 23:03	2°♃20'21	1°48'31
minimum elong	-2025 Jun 02 j 10:46	22°♄39'09	1°11'06	min. Earth dist.	-2018 Dec 12 j 13:38	2°♃16'54	38.64638 AU
retrograde	-2025 Sep 12 j 03:49	24°♄21'53		direct	-2017 Mar 01 j 14:52	1°♃11'31	
opposition	-2025 Dec 01 j 08:38	23°♄16'36	-1°-3'00	max. Earth dist.	-2017 Jun 10 j 05:51	2°♃55'52	40.52179 AU
min. Earth dist.	-2025 Dec 03 j 16:11	23°♄13'38	40.31441 AU				
direct	-2024 Feb 21 j 04:35	22°♄09'57		conjunction	-2017 Jun 13 j 06:11	3°♃00'51	1°55'27
max. Earth dist.	-2024 May 31 j 07:47	23°♄49'16	42.19938 AU	minimum elong	-2017 Jun 13 j 06:07	3°♃00'51	1°55'29
				retrograde	-2017 Sep 23 j 03:31	4°♃49'25	
conjunction	-2024 Jun 02 j 23:46	23°♄53'28	0°-48'-43	opposition	-2017 Dec 11 j 12:55	3°♃42'02	2°14'09
minimum elong	-2024 Jun 02 j 23:48	23°♄53'28	0°48'43	min. Earth dist.	-2017 Dec 14 j 05:28	3°♃38'27	38.39745 AU
retrograde	-2024 Sep 12 j 18:25	25°♄36'52		direct	-2016 Mar 02 j 03:12	2°♃32'50	
opposition	-2024 Dec 01 j 19:58	24°♄31'20	0°-39'-22	max. Earth dist.	-2016 Jun 10 j 22:10	4°♃18'02	40.27129 AU
min. Earth dist.	-2024 Dec 04 j 05:12	24°♄28'15	40.08278 AU				
direct	-2023 Feb 21 j 12:59	23°♄24'23		conjunction	-2016 Jun 13 j 22:27	4°♃23'03	2°19'54
max. Earth dist.	-2023 Jun 01 j 21:10	25°♄04'26	41.96729 AU	minimum elong	-2016 Jun 13 j 22:22	4°♃23'03	2°19'57
				retrograde	-2016 Sep 23 j 18:27	6°♃12'25	
conjunction	-2023 Jun 04 j 13:16	25°♄08'40	0°-26'-4	opposition	-2016 Dec 12 j 03:13	5°♃04'43	2°40'02
minimum elong	-2023 Jun 04 j 13:16	25°♄08'40	0°26'02	min. Earth dist.	-2016 Dec 14 j 19:59	5°♃01'05	38.14660 AU
retrograde	-2023 Sep 14 j 08:09	26°♄52'44		direct	-2015 Mar 03 j 19:44	3°♃55'07	
opposition	-2023 Dec 03 j 07:23	25°♄46'59	0°-15'-27	max. Earth dist.	-2015 Jun 12 j 12:54	5°♃41'05	40.01913 AU
min. Earth dist.	-2023 Dec 05 j 16:32	25°♄43'54	39.84971 AU				
direct	-2022 Feb 23 j 01:00	24°♄39'45		conjunction	-2015 Jun 15 j 15:01	5°♃46'16	2°44'34
max. Earth dist.	-2022 Jun 03 j 08:54	26°♄20'26	41.73339 AU	minimum elong	-2015 Jun 15 j 14:56	5°♃46'16	2°44'37
				retrograde	-2015 Sep 25 j 10:43	7°♃36'27	
conjunction	-2022 Jun 06 j 03:03	26°♄24'50	0°-3'-11	opposition	-2015 Dec 13 j 17:51	6°♃28'24	3°06'10
minimum elong	-2022 Jun 06 j 03:02	26°♄24'50	0°03'10	min. Earth dist.	-2015 Dec 16 j 11:30	6°♃24'43	37.89467 AU
behind sun begin	-2022 Jun 05 j 20:32	26°♄24'25		direct	-2014 Mar 05 j 11:32	5°♃18'24	
behind sun end	-2022 Jun 06 j 09:32	26°♄25'14		max. Earth dist.	-2014 Jun 14 j 05:58	7°♃05'17	39.76596 AU
asc. node	-2022 Jul 25 j 18:09	27°♄37'03					
retrograde	-2022 Sep 15 j 23:07	28°♄09'36		conjunction	-2014 Jun 17 j 08:09	7°♃10'31	3°09'27
opposition	-2022 Dec 04 j 19:24	27°♄03'37	0°08'46	minimum elong	-2014 Jun 17 j 08:03	7°♃10'30	3°09'30
min. Earth dist.	-2022 Dec 07 j 06:11	27°♄00'25	39.61477 AU	retrograde	-2014 Sep 27 j 01:58	9°♃01'33	
direct	-2021 Feb 24 j 12:56	25°♄56'06		opposition	-2014 Dec 15 j 09:11	7°♃53'10	3°32'32
max. Earth dist.	-2021 Jun 04 j 23:00	27°♄37'34	41.49713 AU	min. Earth dist.	-2014 Dec 18 j 03:45	7°♃49'24	37.64218 AU
				direct	-2013 Mar 07 j 02:51	6°♃42'47	
conjunction	-2021 Jun 07 j 17:11	27°♄42'00	0°20'06	max. Earth dist.	-2013 Jun 15 j 22:39	8°♃30'32	39.51262 AU
minimum elong	-2021 Jun 07 j 17:10	27°♄42'00	0°20'09				
retrograde	-2021 Sep 17 j 11:24	29°♄27'30		conjunction	-2013 Jun 19 j 01:24	8°♃35'51	3°34'32
opposition	-2021 Dec 06 j 07:46	28°♄21'16	0°33'17	minimum elong	-2013 Jun 19 j 01:17	8°♃35'50	3°34'34
min. Earth dist.	-2021 Dec 08 j 19:29	28°♄18'01	39.37718 AU	retrograde	-2013 Sep 28 j 19:13	10°♃27'46	
direct	-2020 Feb 26 j 03:12	27°♄13'28		opposition	-2013 Dec 17 j 00:47	9°♃19'04	3°59'07
max. Earth dist.	-2020 Jun 05 j 11:36	28°♄55'35	41.25802 AU	min. Earth dist.	-2013 Dec 19 j 19:00	9°♃15'17	37.38986 AU
				direct	-2012 Mar 07 j 17:04	8°♃08'16	
conjunction	-2020 Jun 08 j 07:46	29°♄00'11	0°43'33	max. Earth dist.	-2012 Jun 16 j 15:32	9°♃56'55	39.25932 AU
minimum elong	-2020 Jun 08 j 07:45	29°♄00'11	0°43'35				
retrograde	-2020 Jul 17 j 09:40	0°♃		conjunction	-2012 Jun 19 j 19:24	10°♃02'21	3°59'49
	-2020 Sep 18 j 02:24	0°♃46'26		minimum elong	-2012 Jun 19 j 19:16	10°♃02'21	3°59'51
	-2020 Nov 21 j 08:30	30°♃		retrograde	-2012 Sep 29 j 14:08	11°♃55'13	
opposition	-2020 Dec 06 j 20:21	29°♄39'57	0°58'05	opposition	-2012 Dec 17 j 16:56	10°♃46'10	4°25'55
min. Earth dist.	-2020 Dec 09 j 08:56	29°♄36'38	39.13668 AU	min. Earth dist.	-2012 Dec 20 j 12:35	10°♃42'17	37.13786 AU
direct	-2019 Feb 26 j 14:51	28°♄31'50		direct	-2011 Mar 09 j 06:45	9°♃34'59	
	-2019 May 28 j 23:34	0°♃		max. Earth dist.	-2011 Jun 18 j 10:34	11°♃24'42	39.00637 AU

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Attention, astronomical year style is used: The year -2011 in astronomical counting style is the year 2012 BCE in historical counting style.

conjunction	-2011 Jun 21 j 13:58	11°II30'08	4°25'15	opposition	-2003 Dec 31 j 20:33	24°II54'13	8°33'45
minimum elong	-2011 Jun 21 j 13:49	11°II30'08	4°25'17	min. Earth dist.	-2002 Jan 03 j 21:43	24°II49'47	34.84900 AU
retrograde	-2011 Oct 01 j 10:32	13°II23'57		direct	-2002 Mar 23 j 05:12	23°II39'10	
opposition	-2011 Dec 19 j 09:37	12°II14'35	4°52'54	max. Earth dist.	-2002 Jul 03 j 05:02	25°II38'45	36.69952 AU
min. Earth dist.	-2011 Dec 22 j 04:52	12°II10'43	36.88614 AU				
direct	-2010 Mar 10 j 23:01	11°II03'02		conjunction	-2002 Jul 06 j 14:28	25°II45'07	8°19'16
max. Earth dist.	-2010 Jun 20 j 03:48	12°II53'40	38.75339 AU	minimum elong	-2002 Jul 06 j 14:11	25°II45'06	8°19'19
				retrograde	-2002 Oct 16 j 15:07	27°II48'41	
conjunction	-2010 Jun 23 j 08:51	12°II59'17	4°50'51	opposition	-2001 Jan 02 j 18:52	26°II35'58	9°01'35
minimum elong	-2010 Jun 23 j 08:42	12°II59'16	4°50'54	min. Earth dist.	-2001 Jan 05 j 20:16	26°II31'29	34.59436 AU
retrograde	-2010 Oct 03 j 07:06	14°II54'06		direct	-2001 Mar 25 j 04:47	25°II20'27	
opposition	-2010 Dec 21 j 02:52	13°II44'24	5°20'04	max. Earth dist.	-2001 Jul 05 j 04:47	27°II21'14	36.44351 AU
min. Earth dist.	-2010 Dec 23 j 23:26	13°II40'26	36.63440 AU				
direct	-2009 Mar 12 j 14:44	12°II32'28		conjunction	-2001 Jul 08 j 14:46	27°II27'43	8°45'23
max. Earth dist.	-2009 Jun 21 j 23:45	14°II24'13	38.49992 AU	minimum elong	-2001 Jul 08 j 14:28	27°II27'42	8°45'25
				retrograde	-2001 Oct 18 j 17:06	29°II32'31	
conjunction	-2009 Jun 25 j 04:33	14°II29'51	5°16'36	opposition	-2000 Jan 04 j 17:37	28°II19'22	9°29'22
minimum elong	-2009 Jun 25 j 04:22	14°II29'51	5°16'37	min. Earth dist.	-2000 Jan 07 j 18:29	28°II14'54	34.34196 AU
retrograde	-2009 Oct 05 j 02:08	16°II25'41		direct	-2000 Mar 26 j 02:38	27°II03'23	
opposition	-2009 Dec 22 j 20:40	15°II15'40	5°47'24	max. Earth dist.	-2000 Jul 06 j 05:59	29°II05'30	36.18970 AU
min. Earth dist.	-2009 Dec 25 j 17:48	15°II11'39	36.38198 AU				
direct	-2008 Mar 13 j 10:22	14°II03'20		conjunction	-2000 Jul 09 j 15:56	29°II12'02	9°11'23
max. Earth dist.	-2008 Jun 22 j 18:20	15°II56'05	38.24553 AU	minimum elong	-2000 Jul 09 j 15:37	29°II12'01	9°11'25
					-2000 Aug 04 j 06:23	0°☾	
conjunction	-2008 Jun 26 j 00:42	16°II01'53	5°42'28	retrograde	-2000 Oct 19 j 16:39	1°☾18'05	
minimum elong	-2008 Jun 26 j 00:30	16°II01'53	5°42'31	opposition	-1999 Jan 05 j 17:23	0°☾04'33	9°57'01
retrograde	-2008 Oct 05 j 23:19	17°II58'45			-1999 Jan 08 j 19:06	30°RII	
opposition	-2008 Dec 23 j 15:04	16°II48'24	6°14'52	min. Earth dist.	-1999 Jan 08 j 19:02	0°☾00'00	34.09207 AU
min. Earth dist.	-2008 Dec 26 j 12:41	16°II44'19	36.12855 AU	direct	-1999 Mar 28 j 00:12	28°II48'07	
direct	-2007 Mar 15 j 04:29	15°II35'40			-1999 Jun 10 j 13:15	0°☾	
max. Earth dist.	-2007 Jun 24 j 14:34	17°II29'29	37.98966 AU	max. Earth dist.	-1999 Jul 08 j 08:26	0°☾51'37	35.93862 AU
conjunction	-2007 Jun 27 j 21:38	17°II35'23	6°08'27	conjunction	-1999 Jul 11 j 17:41	0°☾58'11	9°37'13
minimum elong	-2007 Jun 27 j 21:26	17°II35'23	6°08'29	minimum elong	-1999 Jul 11 j 17:22	0°☾58'09	9°37'15
retrograde	-2007 Oct 07 j 18:59	19°II33'20		retrograde	-1999 Oct 21 j 19:00	3°☾05'31	
opposition	-2007 Dec 25 j 10:14	18°II22'37	6°42'29	opposition	-1998 Jan 07 j 17:43	1°☾51'36	10°24'30
min. Earth dist.	-2007 Dec 28 j 09:25	18°II18'25	35.87376 AU	min. Earth dist.	-1998 Jan 10 j 18:21	1°☾47'05	33.84500 AU
direct	-2006 Mar 16 j 22:01	17°II09'26		direct	-1998 Mar 29 j 23:06	0°☾34'43	
max. Earth dist.	-2006 Jun 26 j 11:29	19°II04'21	37.73261 AU	max. Earth dist.	-1998 Jul 10 j 10:13	2°☾39'33	35.69016 AU
conjunction	-2006 Jun 29 j 19:02	19°II10'21	6°34'32	conjunction	-1998 Jul 13 j 20:13	2°☾46'14	10°02'52
minimum elong	-2006 Jun 29 j 18:49	19°II10'20	6°34'35	minimum elong	-1998 Jul 13 j 19:52	2°☾46'12	10°02'55
retrograde	-2006 Oct 09 j 16:33	21°II09'22		retrograde	-1998 Oct 23 j 23:15	4°☾54'55	
opposition	-2006 Dec 27 j 05:52	19°II58'17	7°10'13	opposition	-1997 Jan 09 j 18:57	3°☾40'37	10°51'47
min. Earth dist.	-2006 Dec 30 j 04:50	19°II54'04	35.61799 AU	min. Earth dist.	-1997 Jan 12 j 20:34	3°☾36'01	33.60067 AU
direct	-2005 Mar 18 j 16:58	18°II44'39		direct	-1997 Mar 31 j 20:28	2°☾23'18	
max. Earth dist.	-2005 Jun 28 j 07:46	20°II40'37	37.47447 AU	max. Earth dist.	-1997 Jul 12 j 14:36	4°☾29'38	35.44418 AU
conjunction	-2005 Jul 01 j 16:54	20°II46'47	7°00'41	conjunction	-1997 Jul 15 j 23:26	4°☾36'17	10°28'17
minimum elong	-2005 Jul 01 j 16:39	20°II46'46	7°00'43	minimum elong	-1997 Jul 15 j 23:05	4°☾36'16	10°28'20
retrograde	-2005 Oct 11 j 16:07	22°II46'55		retrograde	-1997 Oct 26 j 03:39	6°☾46'19	
opposition	-2005 Dec 29 j 02:13	21°II35'25	7°38'01	opposition	-1996 Jan 11 j 20:58	5°☾31'39	11°18'50
min. Earth dist.	-2004 Jan 01 j 02:47	21°II31'05	35.36154 AU	min. Earth dist.	-1996 Jan 14 j 21:53	5°☾27'04	33.35854 AU
direct	-2004 Mar 19 j 10:55	20°II21'20		direct	-1996 Apr 01 j 22:26	4°☾13'54	
max. Earth dist.	-2004 Jun 29 j 06:54	22°II18'30	37.21583 AU	max. Earth dist.	-1996 Jul 13 j 17:30	6°☾21'34	35.20016 AU
conjunction	-2004 Jul 02 j 15:34	22°II24'42	7°26'53	conjunction	-1996 Jul 17 j 03:30	6°☾28'23	10°53'26
minimum elong	-2004 Jul 02 j 15:19	22°II24'41	7°26'56	minimum elong	-1996 Jul 17 j 03:07	6°☾28'21	10°53'29
retrograde	-2004 Oct 12 j 14:59	24°II25'57		retrograde	-1996 Oct 27 j 11:20	8°☾39'47	
opposition	-2004 Dec 29 j 22:59	23°II14'03	8°05'53	opposition	-1995 Jan 12 j 23:42	7°☾24'43	11°45'35
min. Earth dist.	-2003 Jan 01 j 23:22	23°II09'42	35.10492 AU	min. Earth dist.	-1995 Jan 16 j 01:11	7°☾20'04	33.11846 AU
direct	-2003 Mar 21 j 08:27	21°II59'29		direct	-1995 Apr 04 j 00:45	6°☾06'30	
max. Earth dist.	-2003 Jul 01 j 04:35	23°II57'46	36.95727 AU	max. Earth dist.	-1995 Jul 15 j 23:31	8°☾15'43	34.95790 AU
conjunction	-2003 Jul 04 j 14:44	24°II04'08	7°53'05	conjunction	-1995 Jul 19 j 08:31	8°☾22'31	11°18'17
minimum elong	-2003 Jul 04 j 14:28	24°II04'07	7°53'08	minimum elong	-1995 Jul 19 j 08:09	8°☾22'29	11°18'19
retrograde	-2003 Oct 14 j 15:59	26°II06'32		retrograde	-1995 Oct 29 j 16:58	10°☾35'16	

Planetary Phenomena of Pluto from -2400 through -1900 (UT), Astrodienst AG 14-Nov-2015 16:07, page 26

Attention, astronomical year style is used: The year -1994 in astronomical counting style is the year 1995 BCE in historical counting style.

opposition	-1994 Jan 15 j 03:34	9°☾19'48	12°12'00	max. Earth dist.	-1986 Aug 04 j 12:17	26°☾51'03	32.92884 AU
min. Earth dist.	-1994 Jan 18 j 05:12	9°☾15'07	32.88011 AU				
direct	-1994 Apr 06 j 05:05	8°☾01'08		conjunction	-1986 Aug 07 j 14:06	26°☾57'49	14°37'24
max. Earth dist.	-1994 Jul 18 j 04:24	10°☾11'43	34.71755 AU	minimum elong	-1986 Aug 07 j 13:43	26°☾57'47	14°37'26
				retrograde	-1986 Nov 18 j 07:01	29°☾23'04	
conjunction	-1994 Jul 21 j 13:59	10°☾18'38	11°42'45	opposition	-1985 Feb 03 j 03:29	28°☾03'45	15°43'03
minimum elong	-1994 Jul 21 j 13:35	10°☾18'36	11°42'48	min. Earth dist.	-1985 Feb 05 j 23:15	27°☾59'11	30.90037 AU
retrograde	-1994 Nov 01 j 00:11	12°☾32'46		direct	-1985 Apr 24 j 19:09	26°☾40'53	
opposition	-1993 Jan 17 j 08:05	11°☾16'53	12°38'02	max. Earth dist.	-1985 Aug 07 j 01:44	29°☾05'10	32.73216 AU
min. Earth dist.	-1993 Jan 20 j 09:15	11°☾12'11	32.64389 AU				
direct	-1993 Apr 08 j 08:57	9°☾57'43		conjunction	-1985 Aug 10 j 02:32	29°☾11'54	14°55'24
max. Earth dist.	-1993 Jul 20 j 11:16	12°☾09'47	34.47925 AU	minimum elong	-1985 Aug 10 j 02:10	29°☾11'52	14°55'26
					-1985 Sep 01 j 02:45	0°♁	
conjunction	-1993 Jul 23 j 20:29	12°☾16'44	12°06'49	retrograde	-1985 Nov 20 j 22:00	1°♁38'32	
minimum elong	-1993 Jul 23 j 20:07	12°☾16'42	12°06'50	opposition	-1984 Feb 05 j 15:44	0°♁18'53	16°01'58
retrograde	-1993 Nov 03 j 05:48	14°☾32'14		min. Earth dist.	-1984 Feb 08 j 09:35	0°♁14'26	30.70987 AU
opposition	-1992 Jan 19 j 13:26	13°☾15'55	13°03'37		-1984 Feb 17 j 09:27	30°R☾	
min. Earth dist.	-1992 Jan 22 j 15:18	13°☾11'09	32.41000 AU	direct	-1984 Apr 26 j 06:35	28°☾55'40	
direct	-1992 Apr 09 j 13:07	11°☾56'16			-1984 Jun 30 j 15:47	0°♁	
max. Earth dist.	-1992 Jul 21 j 18:55	14°☾09'47	34.24370 AU	max. Earth dist.	-1984 Aug 08 j 16:43	1°♁21'31	32.54201 AU
conjunction	-1992 Jul 25 j 03:40	14°☾16'47	12°30'23	conjunction	-1984 Aug 11 j 15:57	1°♁28'10	15°12'19
minimum elong	-1992 Jul 25 j 03:16	14°☾16'44	12°30'26	minimum elong	-1984 Aug 11 j 15:35	1°♁28'08	15°12'21
retrograde	-1992 Nov 04 j 14:17	16°☾33'39		retrograde	-1984 Nov 22 j 11:58	3°♁56'12	
opposition	-1991 Jan 20 j 19:37	15°☾16'52	13°28'40	opposition	-1983 Feb 07 j 05:16	2°♁36'13	16°19'42
min. Earth dist.	-1991 Jan 23 j 20:14	15°☾12'09	32.17912 AU	min. Earth dist.	-1983 Feb 09 j 22:51	2°♁31'45	30.52571 AU
direct	-1991 Apr 11 j 18:11	13°☾56'43		direct	-1983 Apr 28 j 17:49	1°♁12'39	
max. Earth dist.	-1991 Jul 24 j 02:50	16°☾11'40	34.01133 AU	max. Earth dist.	-1983 Aug 11 j 08:30	3°♁40'03	32.35841 AU
conjunction	-1991 Jul 27 j 11:34	16°☾18'44	12°53'24	conjunction	-1983 Aug 14 j 05:57	3°♁46'36	15°28'03
minimum elong	-1991 Jul 27 j 11:11	16°☾18'42	12°53'27	minimum elong	-1983 Aug 14 j 05:37	3°♁46'34	15°28'05
retrograde	-1991 Nov 06 j 21:34	18°☾36'59		retrograde	-1983 Nov 25 j 04:30	6°♁15'58	
opposition	-1990 Jan 23 j 02:45	17°☾19'45	13°53'06	opposition	-1982 Feb 09 j 19:35	4°♁55'40	16°36'10
min. Earth dist.	-1990 Jan 26 j 03:57	17°☾14'58	31.95196 AU	min. Earth dist.	-1982 Feb 12 j 10:51	4°♁51'20	30.34784 AU
direct	-1990 Apr 13 j 22:41	15°☾59'05		direct	-1982 May 01 j 06:49	3°♁31'46	
max. Earth dist.	-1990 Jul 26 j 13:12	18°☾15'36	33.78322 AU	max. Earth dist.	-1982 Aug 14 j 00:27	6°♁00'35	32.18118 AU
conjunction	-1990 Jul 29 j 20:11	18°☾22'35	13°15'48	conjunction	-1982 Aug 16 j 20:50	6°♁07'05	15°42'34
minimum elong	-1990 Jul 29 j 19:47	18°☾22'33	13°15'51	minimum elong	-1982 Aug 16 j 20:30	6°♁07'03	15°42'36
retrograde	-1990 Nov 09 j 06:21	20°☾42'13		retrograde	-1982 Nov 27 j 19:19	8°♁37'46	
opposition	-1989 Jan 25 j 10:41	19°☾24'32	14°16'51	opposition	-1981 Feb 12 j 10:51	7°♁17'08	16°51'17
min. Earth dist.	-1989 Jan 28 j 10:17	19°☾19'49	31.72944 AU	min. Earth dist.	-1981 Feb 15 j 01:49	7°♁12'49	30.17638 AU
direct	-1989 Apr 16 j 06:34	18°☾03'22		direct	-1981 May 03 j 19:09	5°♁52'55	
max. Earth dist.	-1989 Jul 28 j 22:25	20°☾21'20	33.56015 AU	max. Earth dist.	-1981 Aug 16 j 18:30	8°♁23'14	32.01071 AU
conjunction	-1989 Aug 01 j 05:24	20°☾28'22	13°37'29	conjunction	-1981 Aug 19 j 12:22	8°♁29'33	15°55'46
minimum elong	-1989 Aug 01 j 05:01	20°☾28'20	13°37'31	minimum elong	-1981 Aug 19 j 12:05	8°♁29'31	15°55'48
retrograde	-1989 Nov 11 j 17:31	22°☾49'24		retrograde	-1981 Nov 30 j 11:18	11°♁01'28	
opposition	-1988 Jan 27 j 19:30	21°☾31'15	14°39'48	opposition	-1980 Feb 15 j 02:54	9°♁40'31	17°04'57
min. Earth dist.	-1988 Jan 30 j 18:47	21°☾26'32	31.51246 AU	min. Earth dist.	-1980 Feb 17 j 15:33	9°♁36'20	30.01139 AU
direct	-1988 Apr 17 j 13:01	20°☾09'37		direct	-1980 May 05 j 10:57	8°♁15'58	
max. Earth dist.	-1988 Jul 30 j 10:56	22°☾29'13	33.34300 AU	max. Earth dist.	-1980 Aug 18 j 11:29	10°♁47'34	31.84709 AU
conjunction	-1988 Aug 02 j 15:36	22°☾36'07	13°58'22	conjunction	-1980 Aug 21 j 04:34	10°♁53'51	16°07'35
minimum elong	-1988 Aug 02 j 15:12	22°☾36'05	13°58'24	minimum elong	-1980 Aug 21 j 04:17	10°♁53'50	16°07'37
retrograde	-1988 Nov 13 j 04:08	24°☾58'32		retrograde	-1980 Dec 02 j 04:56	13°♁26'58	
opposition	-1987 Jan 29 j 05:13	23°☾39'59	15°01'53	opposition	-1979 Feb 16 j 19:44	12°♁05'41	17°17'07
min. Earth dist.	-1987 Feb 01 j 03:04	23°☾35'20	31.30161 AU	min. Earth dist.	-1979 Feb 19 j 07:25	12°♁01'34	29.85347 AU
direct	-1987 Apr 19 j 22:18	22°☾17'54		direct	-1979 May 08 j 00:51	10°♁40'49	
max. Earth dist.	-1987 Aug 01 j 22:15	24°☾38'59	33.13248 AU	max. Earth dist.	-1979 Aug 21 j 07:31	13°♁13'51	31.69106 AU
conjunction	-1987 Aug 05 j 02:28	24°☾45'54	14°18'22	conjunction	-1979 Aug 23 j 21:28	13°♁19'52	16°17'55
minimum elong	-1987 Aug 05 j 02:05	24°☾45'52	14°18'23	minimum elong	-1979 Aug 23 j 21:14	13°♁19'51	16°17'57
retrograde	-1987 Nov 15 j 18:25	27°☾09'44			-1979 Oct 09 j 08:45	15°♁	
opposition	-1986 Jan 31 j 15:51	25°☾50'47	15°22'59	retrograde	-1979 Dec 04 j 22:01	15°♁54'07	
min. Earth dist.	-1986 Feb 03 j 12:22	25°☾46'12	31.09763 AU		-1978 Feb 02 j 17:03	15°R♁	
direct	-1986 Apr 22 j 08:13	24°☾28'18		opposition	-1978 Feb 19 j 13:27	14°♁32'30	17°27'39

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Attention, astronomical year style is used: The year -1978 in astronomical counting style is the year 1979 BCE in historical counting style.

min. Earth dist.	-1978 Feb 21 j 22:52	14°Ω28'31	29.70309 AU	opposition	-1970 Mar 12 j 09:17	4°♃53'34	17°44'16
direct	-1978 May 10 j 18:10	13°Ω07'20		min. Earth dist.	-1970 Mar 13 j 22:11	4°♃50'58	28.85294 AU
	-1978 Aug 06 j 02:16	15°Ω		direct	-1970 May 31 j 08:08	3°♃27'14	
max. Earth dist.	-1978 Aug 24 j 01:52	15°Ω41'31	31.54328 AU	conjunction	-1970 Sep 15 j 23:49	6°♃12'48	16°32'59
conjunction	-1978 Aug 26 j 14:36	15°Ω47'28	16°26'43	minimum elong	-1970 Sep 15 j 23:54	6°♃12'49	16°33'01
minimum elong	-1978 Aug 26 j 14:22	15°Ω47'27	16°26'45	max. Earth dist.	-1970 Sep 14 j 12:07	6°♃09'11	30.73290 AU
retrograde	-1978 Dec 07 j 17:37	18°Ω22'46		retrograde	-1970 Dec 28 j 13:12	8°♃53'47	
opposition	-1977 Feb 22 j 07:46	17°Ω00'50	17°36'29	opposition	-1969 Mar 15 j 07:56	7°♃30'28	17°37'13
min. Earth dist.	-1977 Feb 24 j 15:08	16°Ω56'59	29.56123 AU	min. Earth dist.	-1969 Mar 16 j 17:17	7°♃28'07	28.79314 AU
direct	-1977 May 13 j 11:57	15°Ω35'22		direct	-1969 Jun 03 j 07:20	6°♃04'09	
max. Earth dist.	-1977 Aug 26 j 23:26	18°Ω10'53	31.40455 AU	max. Earth dist.	-1969 Sep 17 j 10:42	8°♃46'30	30.67937 AU
conjunction	-1977 Aug 29 j 08:30	18°Ω16'30	16°33'52	conjunction	-1969 Sep 18 j 20:12	8°♃49'54	16°25'16
minimum elong	-1977 Aug 29 j 08:19	18°Ω16'29	16°33'53	minimum elong	-1969 Sep 18 j 20:19	8°♃49'55	16°25'15
retrograde	-1977 Dec 10 j 11:16	20°Ω52'46		retrograde	-1969 Dec 31 j 10:43	11°♃31'10	
opposition	-1976 Feb 25 j 02:43	19°Ω30'33	17°43'32	opposition	-1968 Mar 17 j 06:46	10°♃07'47	17°28'05
min. Earth dist.	-1976 Feb 27 j 08:07	19°Ω26'49	29.42847 AU	min. Earth dist.	-1968 Mar 18 j 13:46	10°♃05'36	28.74319 AU
direct	-1976 May 15 j 06:32	18°Ω04'50		direct	-1968 Jun 05 j 03:51	8°♃41'29	
max. Earth dist.	-1976 Aug 28 j 19:32	20°Ω41'25	31.27581 AU	max. Earth dist.	-1968 Sep 19 j 11:15	11°♃24'17	30.63601 AU
conjunction	-1976 Aug 31 j 02:41	20°Ω46'53	16°39'19	conjunction	-1968 Sep 20 j 16:46	11°♃27'18	16°15'37
minimum elong	-1976 Aug 31 j 02:32	20°Ω46'52	16°39'21	minimum elong	-1968 Sep 20 j 16:56	11°♃27'19	16°15'38
retrograde	-1976 Dec 12 j 08:16	23°Ω24'04		retrograde	-1967 Jan 02 j 06:56	14°♃08'44	
opposition	-1975 Feb 26 j 22:23	22°Ω01'34	17°48'41	opposition	-1967 Mar 20 j 05:58	12°♃45'18	17°16'54
min. Earth dist.	-1975 Mar 01 j 00:35	21°Ω58'04	29.30587 AU	min. Earth dist.	-1967 Mar 21 j 09:48	12°♃43'20	28.70293 AU
direct	-1975 May 18 j 01:30	20°Ω35'38		direct	-1967 Jun 08 j 03:06	11°♃19'02	
max. Earth dist.	-1975 Aug 31 j 18:01	23°Ω13'24	31.15771 AU	max. Earth dist.	-1967 Sep 22 j 09:40	14°♃01'59	30.60279 AU
conjunction	-1975 Sep 02 j 21:22	23°Ω18'31	16°42'58	conjunction	-1967 Sep 23 j 13:00	14°♃04'46	16°04'05
minimum elong	-1975 Sep 02 j 21:16	23°Ω18'31	16°42'59	minimum elong	-1967 Sep 23 j 13:12	14°♃04'47	16°04'05
retrograde	-1975 Dec 15 j 04:01	25°Ω56'33		retrograde	-1966 Jan 05 j 04:03	16°♃46'16	
opposition	-1974 Mar 01 j 18:51	24°Ω33'50	17°51'53	opposition	-1966 Mar 23 j 05:12	15°♃22'47	17°03'40
min. Earth dist.	-1974 Mar 03 j 19:00	24°Ω30'27	29.19385 AU	min. Earth dist.	-1966 Mar 24 j 05:55	15°♃21'02	28.67278 AU
direct	-1974 May 20 j 21:43	23°Ω07'44		direct	-1966 Jun 11 j 01:19	13°♃56'34	
max. Earth dist.	-1974 Sep 03 j 15:37	25°Ω46'29	31.05090 AU	max. Earth dist.	-1966 Sep 25 j 10:27	16°♃39'46	30.58007 AU
conjunction	-1974 Sep 05 j 16:23	25°Ω51'22	16°44'46	conjunction	-1966 Sep 26 j 09:22	16°♃42'07	15°50'41
minimum elong	-1974 Sep 05 j 16:19	25°Ω51'21	16°44'48	minimum elong	-1966 Sep 26 j 09:37	16°♃42'08	15°50'42
retrograde	-1974 Dec 18 j 01:23	28°Ω30'10		retrograde	-1965 Jan 07 j 23:31	19°♃23'33	
opposition	-1973 Mar 04 j 15:32	27°Ω07'16	17°53'04	opposition	-1965 Mar 26 j 04:18	18°♃00'02	16°48'26
min. Earth dist.	-1973 Mar 06 j 11:53	27°Ω04'09	29.09280 AU	min. Earth dist.	-1965 Mar 27 j 02:18	17°♃58'29	28.65290 AU
direct	-1973 May 23 j 18:33	25°Ω41'03		direct	-1965 Jun 14 j 00:33	16°♃33'54	
max. Earth dist.	-1973 Sep 06 j 14:26	28°Ω20'46	30.95522 AU	max. Earth dist.	-1965 Sep 28 j 08:46	19°♃17'01	30.56824 AU
conjunction	-1973 Sep 08 j 11:52	28°Ω25'20	16°44'41	conjunction	-1965 Sep 29 j 05:19	19°♃19'06	15°35'26
minimum elong	-1973 Sep 08 j 11:50	28°Ω25'20	16°44'42	minimum elong	-1965 Sep 29 j 05:35	19°♃19'08	15°35'26
	-1973 Oct 20 j 08:18	0°♃		retrograde	-1964 Jan 10 j 21:00	22°♃00'23	
retrograde	-1973 Dec 20 j 21:32	1°♃04'49		opposition	-1964 Mar 28 j 03:19	20°♃36'51	16°31'12
	-1972 Feb 24 j 16:07	30°RΩ		min. Earth dist.	-1964 Mar 28 j 21:19	20°♃35'35	28.64400 AU
opposition	-1972 Mar 06 j 13:01	29°Ω41'47	17°52'12	direct	-1964 Jun 15 j 22:40	19°♃10'49	
min. Earth dist.	-1972 Mar 08 j 07:36	29°Ω38'47	29.00246 AU	max. Earth dist.	-1964 Sep 30 j 09:08	21°♃53'58	30.56780 AU
direct	-1972 May 25 j 14:04	28°Ω15'30		conjunction	-1964 Oct 01 j 01:04	21°♃55'35	15°18'21
	-1972 Aug 15 j 19:17	0°♃		minimum elong	-1964 Oct 01 j 01:22	21°♃55'37	15°18'22
max. Earth dist.	-1972 Sep 08 j 13:22	0°♃56'04	30.87058 AU	retrograde	-1963 Jan 12 j 16:19	24°♃36'37	
conjunction	-1972 Sep 10 j 07:35	1°♃00'20	16°42'42	opposition	-1963 Mar 31 j 02:22	23°♃13'05	16°12'01
minimum elong	-1972 Sep 10 j 07:35	1°♃00'20	16°42'44	min. Earth dist.	-1963 Mar 31 j 17:38	23°♃12'01	28.64652 AU
retrograde	-1972 Dec 22 j 19:55	3°♃40'25		direct	-1963 Jun 18 j 22:37	21°♃47'12	
opposition	-1971 Mar 09 j 10:50	2°♃17'16	17°49'16	conjunction	-1963 Oct 03 j 20:23	24°♃31'26	14°59'29
min. Earth dist.	-1971 Mar 11 j 01:40	2°♃14'32	28.92257 AU	minimum elong	-1963 Oct 03 j 20:42	24°♃31'28	14°59'29
direct	-1971 May 28 j 12:10	0°♃50'57		max. Earth dist.	-1963 Oct 03 j 07:20	24°♃30'06	30.57951 AU
max. Earth dist.	-1971 Sep 11 j 12:15	3°♃32'14	30.79650 AU	retrograde	-1962 Jan 15 j 13:23	27°♃12'07	
conjunction	-1971 Sep 13 j 03:39	3°♃36'13	16°38'49	opposition	-1962 Apr 03 j 01:02	25°♃48'38	15°50'55
minimum elong	-1971 Sep 13 j 03:41	3°♃36'13	16°38'49	min. Earth dist.	-1962 Apr 03 j 11:34	25°♃47'54	28.66120 AU
retrograde	-1971 Dec 25 j 16:31	6°♃16'49		direct	-1962 Jun 21 j 21:50	24°♃22'55	

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Attention, astronomical year style is used: The year -1962 in astronomical counting style is the year 1963 BCE in historical counting style.

conjunction	-1962 Oct 06 j 15:26	27° <u>♄</u> 06'33	14°38'53	conjunction	-1954 Oct 26 j 06:53	17° <u>♄</u> 09'57	11°02'11
minimum elong	-1962 Oct 06 j 15:47	27° <u>♄</u> 06'35	14°38'53	minimum elong	-1954 Oct 26 j 07:17	17° <u>♄</u> 09'59	11°02'10
max. Earth dist.	-1962 Oct 06 j 06:48	27° <u>♄</u> 05'40	30.60358 AU	max. Earth dist.	-1954 Oct 26 j 23:56	17° <u>♄</u> 11'37	31.19904 AU
retrograde	-1961 Jan 18 j 08:17	29° <u>♄</u> 46'49		retrograde	-1953 Feb 07 j 02:53	19° <u>♄</u> 44'08	
opposition	-1961 Apr 05 j 23:33	28° <u>♄</u> 23'26	15°27'58	opposition	-1953 Apr 26 j 19:56	18° <u>♄</u> 22'17	11°30'14
min. Earth dist.	-1961 Apr 06 j 07:30	28° <u>♄</u> 22'53	28.68808 AU	min. Earth dist.	-1953 Apr 26 j 00:54	18° <u>♄</u> 23'34	29.29372 AU
direct	-1961 Jun 24 j 19:29	26° <u>♄</u> 57'57		direct	-1953 Jul 15 j 18:30	16° <u>♄</u> 59'20	
conjunction	-1961 Oct 09 j 10:03	29° <u>♄</u> 40'52	14°16'37	conjunction	-1953 Oct 28 j 21:11	19° <u>♄</u> 33'46	10°30'08
minimum elong	-1961 Oct 09 j 10:24	29° <u>♄</u> 40'54	14°16'36	minimum elong	-1953 Oct 28 j 21:34	19° <u>♄</u> 33'49	10°30'06
max. Earth dist.	-1961 Oct 09 j 04:42	29° <u>♄</u> 40'19	30.64013 AU	max. Earth dist.	-1953 Oct 29 j 18:09	19° <u>♄</u> 35'49	31.31632 AU
retrograde	-1961 Oct 17 j 07:47	0° <u>♄</u>		retrograde	-1952 Feb 09 j 14:57	22° <u>♄</u> 06'54	
retrograde	-1960 Jan 21 j 05:03	2° <u>♄</u> 20'37		opposition	-1952 Apr 28 j 13:50	20° <u>♄</u> 45'15	10°55'25
opposition	-1960 Apr 07 j 21:29	0° <u>♄</u> 57'23	15°03'16	min. Earth dist.	-1952 Apr 27 j 16:44	20° <u>♄</u> 46'40	29.41169 AU
min. Earth dist.	-1960 Apr 08 j 00:48	0° <u>♄</u> 57'09	28.72700 AU	direct	-1952 Jul 17 j 13:26	19° <u>♄</u> 22'38	
direct	-1960 May 15 j 14:32	30° <u>♄</u>		conjunction	-1952 Oct 30 j 10:36	21° <u>♄</u> 55'44	9°57'17
direct	-1960 Jun 26 j 19:14	29° <u>♄</u> 32'10		minimum elong	-1952 Oct 30 j 10:59	21° <u>♄</u> 55'46	9°57'15
direct	-1960 Aug 06 j 10:16	0° <u>♄</u>		max. Earth dist.	-1952 Oct 31 j 09:43	21° <u>♄</u> 57'57	31.44268 AU
conjunction	-1960 Oct 11 j 04:20	2° <u>♄</u> 14'18	13°52'46	retrograde	-1951 Feb 11 j 05:11	24° <u>♄</u> 27'45	
minimum elong	-1960 Oct 11 j 04:44	2° <u>♄</u> 14'21	13°52'46	min. Earth dist.	-1951 Apr 30 j 05:42	23° <u>♄</u> 08'00	29.53908 AU
max. Earth dist.	-1960 Oct 11 j 02:50	2° <u>♄</u> 14'09	30.68859 AU	opposition	-1951 May 01 j 06:58	23° <u>♄</u> 06'19	10°19'48
retrograde	-1959 Jan 23 j 00:09	4° <u>♄</u> 53'30		direct	-1951 Jul 20 j 07:01	21° <u>♄</u> 44'02	
opposition	-1959 Apr 10 j 19:24	3° <u>♄</u> 30'25	14°36'55	conjunction	-1951 Nov 01 j 23:15	24° <u>♄</u> 15'46	9°23'45
min. Earth dist.	-1959 Apr 10 j 20:07	3° <u>♄</u> 30'22	28.77761 AU	minimum elong	-1951 Nov 01 j 23:36	24° <u>♄</u> 15'48	9°23'43
direct	-1959 Jun 29 j 16:38	2° <u>♄</u> 05'31		max. Earth dist.	-1951 Nov 03 j 02:16	24° <u>♄</u> 18'21	31.57837 AU
conjunction	-1959 Oct 13 j 22:00	4° <u>♄</u> 46'46	13°27'26	retrograde	-1950 Feb 13 j 17:06	26° <u>♄</u> 46'40	
minimum elong	-1959 Oct 13 j 22:23	4° <u>♄</u> 46'48	13°27'26	opposition	-1950 May 03 j 23:29	25° <u>♄</u> 25'28	9°43'30
max. Earth dist.	-1959 Oct 14 j 00:11	4° <u>♄</u> 46'59	30.74864 AU	min. Earth dist.	-1950 May 02 j 20:05	25° <u>♄</u> 27'17	29.67616 AU
retrograde	-1958 Jan 25 j 18:09	7° <u>♄</u> 25'19		direct	-1950 Jul 22 j 22:53	24° <u>♄</u> 03'33	
opposition	-1958 Apr 13 j 16:46	6° <u>♄</u> 02'26	14°09'00	conjunction	-1950 Nov 04 j 11:15	26° <u>♄</u> 33'54	8°49'36
min. Earth dist.	-1958 Apr 13 j 13:16	6° <u>♄</u> 02'40	28.83921 AU	minimum elong	-1950 Nov 04 j 11:37	26° <u>♄</u> 33'56	8°49'34
direct	-1958 Jul 02 j 15:08	4° <u>♄</u> 37'51		max. Earth dist.	-1950 Nov 05 j 16:57	26° <u>♄</u> 36'44	31.72380 AU
conjunction	-1958 Oct 16 j 15:17	7° <u>♄</u> 18'09	13°00'44	retrograde	-1949 Feb 16 j 05:52	29° <u>♄</u> 03'40	
minimum elong	-1958 Oct 16 j 15:42	7° <u>♄</u> 18'11	13°00'44	min. Earth dist.	-1949 May 05 j 07:21	27° <u>♄</u> 44'49	29.82303 AU
max. Earth dist.	-1958 Oct 16 j 20:24	7° <u>♄</u> 18'39	30.81938 AU	opposition	-1949 May 06 j 14:52	27° <u>♄</u> 42'44	9°06'37
retrograde	-1957 Jan 28 j 12:37	9° <u>♄</u> 55'57		direct	-1949 Jul 25 j 16:27	26° <u>♄</u> 21'12	
opposition	-1957 Apr 16 j 13:38	8° <u>♄</u> 33'16	13°39'39	conjunction	-1949 Nov 06 j 22:31	28° <u>♄</u> 50'12	8°14'57
min. Earth dist.	-1957 Apr 16 j 07:27	8° <u>♄</u> 33'42	28.91133 AU	minimum elong	-1949 Nov 06 j 22:50	28° <u>♄</u> 50'14	8°14'56
direct	-1957 Jul 05 j 11:23	7° <u>♄</u> 09'01		max. Earth dist.	-1949 Nov 08 j 07:19	28° <u>♄</u> 53'17	31.87876 AU
conjunction	-1957 Oct 19 j 08:10	9° <u>♄</u> 48'18	12°32'45	retrograde	-1949 Dec 09 j 00:30	0° <u>♄</u>	
minimum elong	-1957 Oct 19 j 08:34	9° <u>♄</u> 48'20	12°32'44	retrograde	-1948 Feb 18 j 18:20	1° <u>♄</u> 18'50	
max. Earth dist.	-1957 Oct 19 j 17:04	9° <u>♄</u> 49'11	30.90037 AU	min. Earth dist.	-1948 May 06 j 19:53	0° <u>♄</u> 00'26	29.97962 AU
retrograde	-1956 Jan 31 j 05:06	12° <u>♄</u> 25'18		retrograde	-1948 May 07 j 02:21	30° <u>♄</u>	
opposition	-1956 Apr 18 j 10:05	11° <u>♄</u> 02'50	13°09'00	opposition	-1948 May 08 j 05:51	29° <u>♄</u> 58'11	8°29'15
min. Earth dist.	-1956 Apr 18 j 00:35	11° <u>♄</u> 03'29	28.99315 AU	direct	-1948 Jul 27 j 07:34	28° <u>♄</u> 37'05	
direct	-1956 Jul 07 j 09:12	9° <u>♄</u> 38'55		direct	-1948 Oct 09 j 13:22	0° <u>♄</u>	
conjunction	-1956 Oct 21 j 00:16	12° <u>♄</u> 17'04	12°03'36	conjunction	-1948 Nov 08 j 09:00	1° <u>♄</u> 04'43	7°39'53
minimum elong	-1956 Oct 21 j 00:41	12° <u>♄</u> 17'07	12°03'35	minimum elong	-1948 Nov 08 j 09:18	1° <u>♄</u> 04'44	7°39'51
max. Earth dist.	-1956 Oct 21 j 11:27	12° <u>♄</u> 18'11	30.99084 AU	max. Earth dist.	-1948 Nov 09 j 20:59	1° <u>♄</u> 08'05	32.04310 AU
retrograde	-1955 Feb 01 j 21:12	14° <u>♄</u> 53'12		retrograde	-1947 Feb 20 j 04:34	3° <u>♄</u> 32'12	
opposition	-1955 Apr 21 j 06:04	13° <u>♄</u> 30'57	12°37'08	min. Earth dist.	-1947 May 09 j 06:40	2° <u>♄</u> 14'20	30.14528 AU
min. Earth dist.	-1955 Apr 20 j 17:22	13° <u>♄</u> 31'49	29.08442 AU	opposition	-1947 May 10 j 19:59	2° <u>♄</u> 11'54	7°51'30
direct	-1955 Jul 10 j 04:30	12° <u>♄</u> 07'21		direct	-1947 Jul 29 j 23:35	0° <u>♄</u> 51'14	
conjunction	-1955 Oct 23 j 16:01	14° <u>♄</u> 44'20	11°33'23	conjunction	-1947 Nov 10 j 18:46	3° <u>♄</u> 17'30	7°04'29
minimum elong	-1955 Oct 23 j 16:25	14° <u>♄</u> 44'23	11°33'22	minimum elong	-1947 Nov 10 j 19:03	3° <u>♄</u> 17'31	7°04'29
max. Earth dist.	-1955 Oct 24 j 07:11	14° <u>♄</u> 45'50	31.09052 AU	max. Earth dist.	-1947 Nov 12 j 08:57	3° <u>♄</u> 21'03	32.21598 AU
retrograde	-1954 Feb 04 j 10:56	17° <u>♄</u> 19'31		retrograde	-1946 Feb 22 j 14:47	5° <u>♄</u> 43'51	
min. Earth dist.	-1954 Apr 23 j 10:05	15° <u>♄</u> 58'31	29.18462 AU	min. Earth dist.	-1946 May 11 j 17:20	4° <u>♄</u> 26'30	30.31955 AU
opposition	-1954 Apr 24 j 01:23	15° <u>♄</u> 57'28	12°04'11	opposition	-1946 May 13 j 09:21	4° <u>♄</u> 23'53	7°13'29
direct	-1954 Jul 13 j 00:33	14° <u>♄</u> 34'13		direct	-1946 Aug 01 j 12:24	3° <u>♄</u> 03'41	

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Attention, astronomical year style is used: The year -1946 in astronomical counting style is the year 1947 BCE in historical counting style.

conjunction	-1946 Nov 13 j 03:58	5°M.28'36	6°28'52	conjunction	-1938 Nov 29 j 04:35	21°M.54'49	1°44'54
minimum elong	-1946 Nov 13 j 04:14	5°M.28'37	6°28'51	minimum elong	-1938 Nov 29 j 04:39	21°M.54'49	1°44'52
max. Earth dist.	-1946 Nov 14 j 21:35	5°M.32'26	32.39680 AU	max. Earth dist.	-1938 Dec 01 j 13:13	21°M.59'42	34.04464 AU
retrograde	-1945 Feb 24 j 22:29	7°M.53'48		retrograde	-1937 Mar 12 j 23:56	24°M.10'43	
min. Earth dist.	-1945 May 14 j 03:48	6°M.36'56	30.50133 AU	min. Earth dist.	-1937 May 30 j 13:03	22°M.57'19	32.15795 AU
opposition	-1945 May 15 j 21:58	6°M.34'12	6°35'17	opposition	-1937 Jun 02 j 00:03	22°M.53'41	1°32'55
direct	-1945 Aug 04 j 02:51	5°M.14'27		direct	-1937 Aug 21 j 07:14	21°M.37'12	
conjunction	-1945 Nov 15 j 12:20	7°M.38'00	5°53'07	conjunction	-1937 Dec 01 j 07:34	23°M.50'01	1°10'25
minimum elong	-1945 Nov 15 j 12:34	7°M.38'02	5°53'05	minimum elong	-1937 Dec 01 j 07:36	23°M.50'01	1°10'23
max. Earth dist.	-1945 Nov 17 j 07:19	7°M.41'57	32.58450 AU	max. Earth dist.	-1937 Dec 03 j 19:10	23°M.55'08	34.27285 AU
retrograde	-1944 Feb 27 j 08:05	10°M.02'05		retrograde	-1936 Mar 14 j 00:28	26°M.04'47	
min. Earth dist.	-1944 May 15 j 12:33	8°M.45'45	30.68999 AU	min. Earth dist.	-1936 May 31 j 17:39	24°M.51'47	32.38822 AU
opposition	-1944 May 17 j 09:49	8°M.42'50	5°57'00	opposition	-1936 Jun 03 j 05:58	24°M.48'05	0°56'28
direct	-1944 Aug 05 j 14:08	7°M.23'32		direct	-1936 Aug 22 j 15:45	23°M.32'00	
conjunction	-1944 Nov 16 j 20:14	9°M.45'44	5°17'18	conjunction	-1936 Dec 02 j 09:51	25°M.43'34	0°36'19
minimum elong	-1944 Nov 16 j 20:28	9°M.45'45	5°17'16	minimum elong	-1936 Dec 02 j 09:53	25°M.43'34	0°36'17
max. Earth dist.	-1944 Nov 18 j 18:26	9°M.49'56	32.77841 AU	max. Earth dist.	-1936 Dec 04 j 22:16	25°M.48'42	34.50612 AU
retrograde	-1943 Feb 28 j 13:49	12°M.08'40		retrograde	-1935 Mar 16 j 03:35	27°M.57'14	
min. Earth dist.	-1943 May 17 j 22:36	10°M.52'45	30.88465 AU	min. Earth dist.	-1935 Jun 02 j 19:56	26°M.44'44	32.62365 AU
opposition	-1943 May 19 j 21:06	10°M.49'46	5°18'43	opposition	-1935 Jun 05 j 11:09	26°M.40'52	0°20'27
direct	-1943 Aug 08 j 01:55	9°M.30'55		direct	-1935 Aug 24 j 20:40	25°M.25'12	
conjunction	-1943 Nov 19 j 03:20	11°M.51'45	4°41'30	conjunction	-1935 Dec 04 j 11:36	27°M.35'32	0°02'42
minimum elong	-1943 Nov 19 j 03:31	11°M.51'46	4°41'28	minimum elong	-1935 Dec 04 j 11:36	27°M.35'32	0°02'40
max. Earth dist.	-1943 Nov 21 j 02:31	11°M.56'01	32.97779 AU	behind sun begin	-1935 Dec 04 j 05:15	27°M.35'02	
retrograde	-1942 Mar 02 j 21:46	14°M.13'31		behind sun end	-1935 Dec 07 j 17:57	27°M.36'03	
min. Earth dist.	-1942 May 20 j 05:58	12°M.58'07	31.08466 AU	max. Earth dist.	-1935 Dec 04 j 02:40	27°M.40'52	34.74392 AU
opposition	-1942 May 22 j 07:29	12°M.54'58	4°40'31	desc. node	-1934 Jan 02 j 10:18	28°M.32'15	
direct	-1942 Aug 10 j 11:28	11°M.36'32		retrograde	-1934 Mar 18 j 03:44	29°M.48'09	
conjunction	-1942 Nov 21 j 09:54	13°M.56'01	4°05'47	min. Earth dist.	-1934 Jun 04 j 23:59	28°M.36'00	32.86348 AU
minimum elong	-1942 Nov 21 j 10:05	13°M.56'02	4°05'45	opposition	-1934 Jun 07 j 15:45	28°M.32'08	0°-15'-2
max. Earth dist.	-1942 Nov 23 j 11:39	14°M.00'28	33.18190 AU	direct	-1934 Aug 27 j 01:25	27°M.16'53	
retrograde	-1942 Dec 22 j 09:17	15°M.		conjunction	-1934 Dec 06 j 12:49	29°M.26'01	0°-30'-35
min. Earth dist.	-1941 Mar 05 j 03:44	16°M.16'37		minimum elong	-1934 Dec 06 j 12:47	29°M.26'01	0°30'38
opposition	-1941 May 22 j 14:44	15°M.01'34	31.28949 AU	max. Earth dist.	-1934 Dec 09 j 04:41	29°M.31'22	34.98565 AU
direct	-1941 May 23 j 15:31	15°R.M.		retrograde	-1934 Dec 23 j 15:15	0° \mathcal{A}	
conjunction	-1941 Nov 23 j 15:44	15°M.58'29	4°02'28	retrograde	-1933 Mar 20 j 05:45	1° \mathcal{A} 37'34	
minimum elong	-1941 Nov 23 j 15:52	15°M.58'30	3°30'11	min. Earth dist.	-1933 Jun 07 j 01:19	0° \mathcal{A} 25'54	33.10696 AU
max. Earth dist.	-1941 Nov 25 j 18:55	16°M.03'01	33.39059 AU	opposition	-1933 Jun 09 j 19:26	0° \mathcal{A} 21'55	0°-50'00
retrograde	-1940 Mar 06 j 10:15	18°M.17'54		direct	-1933 Jun 25 j 03:19	30°R.M.	
min. Earth dist.	-1940 May 23 j 20:49	17°M.03'18	31.49896 AU	conjunction	-1933 Aug 29 j 04:28	29°M.07'05	
opposition	-1940 May 26 j 01:58	16°M.59'58	3°24'37	minimum elong	-1933 Dec 08 j 13:27	1° \mathcal{A} 15'04	-1°-3'-18
direct	-1940 Aug 14 j 06:49	15°M.42'20		max. Earth dist.	-1933 Dec 08 j 13:24	1° \mathcal{A} 15'04	1°03'21
conjunction	-1940 Nov 24 j 20:38	17°M.59'06	2°54'50	retrograde	-1933 Dec 11 j 07:01	1° \mathcal{A} 20'30	35.23036 AU
minimum elong	-1940 Nov 24 j 20:45	17°M.59'07	2°54'49	min. Earth dist.	-1932 Mar 21 j 07:47	3° \mathcal{A} 25'35	
max. Earth dist.	-1940 Nov 27 j 01:45	18°M.03'46	33.60368 AU	opposition	-1932 Jun 08 j 04:06	2° \mathcal{A} 14'17	33.35342 AU
retrograde	-1939 Mar 08 j 17:07	20°M.17'20		direct	-1932 Jun 10 j 22:50	2° \mathcal{A} 10'17	-1°-24'-25
min. Earth dist.	-1939 May 26 j 03:37	19°M.03'06	31.71339 AU	conjunction	-1932 Aug 30 j 05:49	0° \mathcal{A} 55'52	
opposition	-1939 May 28 j 10:14	18°M.59'42	2°47'03	minimum elong	-1932 Dec 09 j 13:34	3° \mathcal{A} 02'43	-1°-35'-31
direct	-1939 Aug 16 j 14:58	17°M.42'27		max. Earth dist.	-1932 Dec 09 j 13:30	3° \mathcal{A} 02'42	1°35'34
conjunction	-1939 Nov 27 j 01:02	19°M.57'52	2°19'43	retrograde	-1932 Dec 12 j 08:32	3° \mathcal{A} 08'14	35.47747 AU
minimum elong	-1939 Nov 27 j 01:07	19°M.57'53	2°19'41	min. Earth dist.	-1931 Mar 23 j 07:52	5° \mathcal{A} 12'13	
max. Earth dist.	-1939 Nov 29 j 08:28	20°M.02'42	33.82166 AU	opposition	-1931 Jun 10 j 05:23	4° \mathcal{A} 01'20	33.60185 AU
retrograde	-1938 Mar 10 j 20:22	22°M.14'55		direct	-1931 Jun 13 j 01:30	3° \mathcal{A} 57'16	-1°-58'-14
min. Earth dist.	-1938 May 28 j 08:47	21°M.01'06	31.93292 AU	conjunction	-1931 Sep 01 j 10:14	2° \mathcal{A} 43'15	
opposition	-1938 May 30 j 17:26	20°M.57'35	2°09'48	minimum elong	-1931 Dec 11 j 13:12	4° \mathcal{A} 48'59	-2°-7'-12
direct	-1938 Aug 19 j 00:14	19°M.40'42		max. Earth dist.	-1931 Dec 11 j 13:07	4° \mathcal{A} 48'58	2°07'15
				retrograde	-1931 Dec 14 j 08:28	4° \mathcal{A} 54'29	35.72596 AU
				min. Earth dist.	-1930 Mar 25 j 08:59	6° \mathcal{A} 57'29	
					-1930 Jun 12 j 06:22	5° \mathcal{A} 46'58	33.85169 AU

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Attention, astronomical year style is used: The year -1930 in astronomical counting style is the year 1931 BCE in historical counting style.

opposition	-1930 Jun 15 j 03:30	5° \nearrow 42'52	-2°-31'-27	conjunction	-1922 Dec 26 j 10:33	19° \nearrow 44'09	-6°-25'-51
direct	-1930 Sep 03 j 12:13	4° \nearrow 29'14		minimum elong	-1922 Dec 26 j 10:22	19° \nearrow 44'08	6°25'53
				max. Earth dist.	-1922 Dec 29 j 13:23	19° \nearrow 49'53	37.99944 AU
conjunction	-1930 Dec 13 j 12:29	6° \nearrow 33'52	-2°-38'-20	retrograde	-1921 Apr 09 j 03:05	21° \nearrow 44'22	
minimum elong	-1930 Dec 13 j 12:23	6° \nearrow 33'52	2°38'22	min. Earth dist.	-1921 Jun 27 j 14:27	20° \nearrow 36'48	36.14188 AU
max. Earth dist.	-1930 Dec 16 j 09:24	6° \nearrow 39'28	35.97532 AU	opposition	-1921 Jun 30 j 19:15	20° \nearrow 32'26	-7°00'-58
retrograde	-1929 Mar 27 j 06:45	8° \nearrow 41'23		direct	-1921 Sep 19 j 08:34	19° \nearrow 21'51	
min. Earth dist.	-1929 Jun 14 j 07:43	7° \nearrow 31'10	34.10210 AU				
opposition	-1929 Jun 17 j 04:57	7° \nearrow 27'05	-3°-4'-3	conjunction	-1921 Dec 28 j 05:10	21° \nearrow 17'36	-6°-51'-27
direct	-1929 Sep 05 j 15:48	6° \nearrow 13'49		minimum elong	-1921 Dec 28 j 04:58	21° \nearrow 17'35	6°51'31
				max. Earth dist.	-1921 Dec 31 j 09:33	21° \nearrow 23'25	38.25691 AU
conjunction	-1929 Dec 15 j 10:57	8° \nearrow 17'22	-3°-8'-53	retrograde	-1920 Apr 09 j 20:53	23° \nearrow 17'02	
minimum elong	-1929 Dec 15 j 10:50	8° \nearrow 17'21	3°08'57	min. Earth dist.	-1920 Jun 28 j 11:36	22° \nearrow 09'42	36.40120 AU
max. Earth dist.	-1929 Dec 18 j 07:38	8° \nearrow 22'54	36.22502 AU	opposition	-1920 Jul 01 j 15:51	22° \nearrow 05'23	-7°-27'-29
retrograde	-1928 Mar 28 j 04:51	10° \nearrow 23'53		direct	-1920 Sep 20 j 05:44	20° \nearrow 55'10	
min. Earth dist.	-1928 Jun 15 j 06:48	9° \nearrow 14'04	34.35303 AU				
opposition	-1928 Jun 18 j 05:49	9° \nearrow 09'53	-3°-36'-1	conjunction	-1920 Dec 28 j 23:34	22° \nearrow 50'03	-7°-16'-26
direct	-1928 Sep 06 j 16:57	7° \nearrow 56'58		minimum elong	-1920 Dec 28 j 23:22	22° \nearrow 50'02	7°16'29
				max. Earth dist.	-1919 Jan 01 j 03:54	22° \nearrow 55'49	38.51415 AU
conjunction	-1928 Dec 16 j 09:03	9° \nearrow 59'26	-3°-38'-52	retrograde	-1919 Apr 11 j 15:42	24° \nearrow 48'41	
minimum elong	-1928 Dec 16 j 08:56	9° \nearrow 59'26	3°38'55	min. Earth dist.	-1919 Jun 30 j 06:26	23° \nearrow 41'43	36.65990 AU
max. Earth dist.	-1928 Dec 19 j 07:31	10° \nearrow 05'04	36.47508 AU	opposition	-1919 Jul 03 j 11:46	23° \nearrow 37'21	-7°-53'-19
retrograde	-1927 Mar 30 j 01:05	12° \nearrow 05'00		direct	-1919 Sep 22 j 01:21	22° \nearrow 27'27	
min. Earth dist.	-1927 Jun 17 j 07:20	10° \nearrow 55'25	34.60461 AU				
opposition	-1927 Jun 20 j 06:05	10° \nearrow 51'17	-4°-7'-20	conjunction	-1919 Dec 30 j 17:32	24° \nearrow 21'30	-7°-40'-48
direct	-1927 Sep 08 j 18:14	9° \nearrow 38'41		minimum elong	-1919 Dec 30 j 17:20	24° \nearrow 21'29	7°40'52
				max. Earth dist.	-1918 Jan 02 j 21:59	24° \nearrow 27'14	38.77024 AU
conjunction	-1927 Dec 18 j 06:30	11° \nearrow 40'06	-4°-8'-15	retrograde	-1918 Apr 13 j 11:44	26° \nearrow 19'22	
minimum elong	-1927 Dec 18 j 06:22	11° \nearrow 40'05	4°08'19	min. Earth dist.	-1918 Jul 02 j 02:31	25° \nearrow 12'38	36.91732 AU
max. Earth dist.	-1927 Dec 21 j 05:09	11° \nearrow 45'42	36.72591 AU	opposition	-1918 Jul 05 j 07:27	25° \nearrow 08'19	-8°-18'-29
retrograde	-1926 Mar 31 j 22:54	13° \nearrow 44'42		direct	-1918 Sep 23 j 19:24	23° \nearrow 58'43	
min. Earth dist.	-1926 Jun 19 j 05:04	12° \nearrow 35'29	34.85717 AU				
opposition	-1926 Jun 22 j 05:36	12° \nearrow 31'16	-4°-37'-59	conjunction	-1917 Jan 01 j 11:19	25° \nearrow 51'57	-8°-4'-32
direct	-1926 Sep 10 j 17:12	11° \nearrow 19'00		minimum elong	-1917 Jan 01 j 11:07	25° \nearrow 51'56	8°04'35
				max. Earth dist.	-1917 Jan 04 j 16:24	25° \nearrow 57'41	39.02468 AU
conjunction	-1926 Dec 20 j 03:26	13° \nearrow 19'23	-4°-37'-2	retrograde	-1917 Apr 15 j 06:01	27° \nearrow 49'02	
minimum elong	-1926 Dec 20 j 03:17	13° \nearrow 19'22	4°37'05	min. Earth dist.	-1917 Jul 03 j 21:39	26° \nearrow 42'32	37.17269 AU
max. Earth dist.	-1926 Dec 23 j 03:13	13° \nearrow 25'02	36.97769 AU	opposition	-1917 Jul 07 j 02:28	26° \nearrow 38'15	-8°-43'00
retrograde	-1925 Apr 02 j 20:33	15° \nearrow 23'04		direct	-1917 Sep 25 j 14:32	25° \nearrow 28'56	
min. Earth dist.	-1925 Jun 21 j 03:49	14° \nearrow 14'07	35.11120 AU				
opposition	-1925 Jun 24 j 04:36	14° \nearrow 09'54	-5°-7'-58	conjunction	-1916 Jan 03 j 04:35	27° \nearrow 21'21	-8°-27'-40
direct	-1925 Sep 12 j 15:17	12° \nearrow 57'57		minimum elong	-1916 Jan 03 j 04:22	27° \nearrow 21'20	8°27'44
				max. Earth dist.	-1916 Jan 06 j 08:44	27° \nearrow 26'59	39.27697 AU
conjunction	-1925 Dec 21 j 23:59	14° \nearrow 57'21	-5°-5'-11	retrograde	-1916 Apr 16 j 00:38	29° \nearrow 17'40	
minimum elong	-1925 Dec 21 j 23:49	14° \nearrow 57'20	5°05'15	min. Earth dist.	-1916 Jul 04 j 15:49	28° \nearrow 11'25	37.42605 AU
max. Earth dist.	-1925 Dec 25 j 01:05	15° \nearrow 03'04	37.23108 AU	opposition	-1916 Jul 07 j 21:15	28° \nearrow 07'08	-9°-6'-50
retrograde	-1924 Apr 03 j 17:35	17° \nearrow 00'07		direct	-1916 Sep 26 j 08:27	26° \nearrow 58'04	
min. Earth dist.	-1924 Jun 22 j 01:02	15° \nearrow 51'31	35.36683 AU				
opposition	-1924 Jun 25 j 03:02	15° \nearrow 47'15	-5°-37'-15	conjunction	-1915 Jan 03 j 21:29	28° \nearrow 49'40	-8°-50'-11
direct	-1924 Sep 13 j 14:26	14° \nearrow 35'38		minimum elong	-1915 Jan 03 j 21:16	28° \nearrow 49'39	8°50'14
				max. Earth dist.	-1915 Jan 07 j 02:44	28° \nearrow 55'21	39.52716 AU
conjunction	-1924 Dec 22 j 19:48	16° \nearrow 34'05	-5°-32'-43		-1915 Feb 15 j 19:14	0° $\bar{\zeta}$	
minimum elong	-1924 Dec 22 j 19:38	16° \nearrow 34'04	5°32'45	retrograde	-1915 Apr 17 j 14:19	0° $\bar{\zeta}$ 45'13	
max. Earth dist.	-1924 Dec 25 j 21:09	16° \nearrow 39'46	37.48595 AU		-1915 Jun 20 j 07:53	30° \bar{R} \nearrow	
retrograde	-1923 Apr 05 j 15:33	18° \nearrow 35'59		min. Earth dist.	-1915 Jul 06 j 11:06	29° \nearrow 39'08	37.67734 AU
min. Earth dist.	-1923 Jun 23 j 21:48	17° \nearrow 27'43	35.62415 AU	opposition	-1915 Jul 09 j 15:34	29° \nearrow 34'54	-9°-30'-2
opposition	-1923 Jun 27 j 01:04	17° \nearrow 23'25	-6°-5'-51	direct	-1915 Sep 28 j 05:39	28° \nearrow 26'06	
direct	-1923 Sep 15 j 11:34	16° \nearrow 12'08			-1915 Dec 26 j 21:59	0° $\bar{\zeta}$	
conjunction	-1923 Dec 24 j 15:28	18° \nearrow 09'40	-5°-59'-36	conjunction	-1914 Jan 05 j 13:59	0° $\bar{\zeta}$ 16'53	-9°-12'-5
minimum elong	-1923 Dec 24 j 15:18	18° \nearrow 09'39	5°59'39	minimum elong	-1914 Jan 05 j 13:46	0° $\bar{\zeta}$ 16'52	9°12'09
max. Earth dist.	-1923 Dec 27 j 18:38	18° \nearrow 15'27	37.74224 AU	max. Earth dist.	-1914 Jan 08 j 18:26	0° $\bar{\zeta}$ 22'29	39.77555 AU
retrograde	-1922 Apr 07 j 09:11	20° \nearrow 10'42		retrograde	-1914 Apr 19 j 05:18	2° $\bar{\zeta}$ 11'39	
min. Earth dist.	-1922 Jun 25 j 19:10	19° \nearrow 02'45	35.88263 AU	min. Earth dist.	-1914 Jul 08 j 03:38	1° $\bar{\zeta}$ 05'51	37.92714 AU
opposition	-1922 Jun 28 j 22:21	18° \nearrow 58'27	-6°-33'-45	opposition	-1914 Jul 11 j 09:07	1° $\bar{\zeta}$ 01'34	-9°-52'-34
direct	-1922 Sep 17 j 10:27	17° \nearrow 47'32			-1914 Sep 06 j 19:47	30° \bar{R} \nearrow	
				direct	-1914 Sep 30 j 00:50	29° \nearrow 53'00	

Attention, astronomical year style is used: The year -1914 in astronomical counting style is the year 1915 BCE in historical counting style.

	-1914 Oct 22 j 18:31	0°☿			minimum elong	-1905 Jan 18 j 03:04	12°☿41'22	12°02'07
					max. Earth dist.	-1905 Jan 21 j 09:19	12°☿46'47	41.96689 AU
conjunction	-1913 Jan 07 j 06:03	1°☿43'01	-9°-33'-23		retrograde	-1905 May 01 j 20:34	14°☿30'25	
minimum elong	-1913 Jan 07 j 05:51	1°☿43'00	9°33'26		min. Earth dist.	-1905 Jul 21 j 03:11	13°☿26'40	40.13109 AU
max. Earth dist.	-1913 Jan 10 j 11:18	1°☿48'38	40.02258 AU		opposition	-1905 Jul 24 j 07:37	13°☿22'36	-12°-46'-26
retrograde	-1913 Apr 20 j 21:08	3°☿37'04			direct	-1905 Oct 12 j 22:17	12°☿16'25	
min. Earth dist.	-1913 Jul 09 j 21:43	2°☿31'25	38.17598 AU		conjunction	-1904 Jan 19 j 16:36	14°☿00'35	-12°-18'-6
opposition	-1913 Jul 13 j 02:32	2°☿27'11	-10°-14'-27		minimum elong	-1904 Jan 19 j 16:24	14°☿00'34	12°18'08
direct	-1913 Oct 01 j 18:22	1°☿18'52			max. Earth dist.	-1904 Jan 22 j 21:05	14°☿05'51	42.19986 AU
conjunction	-1912 Jan 08 j 21:41	3°☿08'07	-9°-54'-4		retrograde	-1904 May 02 j 11:43	15°☿49'01	
minimum elong	-1912 Jan 08 j 21:28	3°☿08'06	9°54'08		min. Earth dist.	-1904 Jul 21 j 17:30	14°☿45'29	40.36435 AU
max. Earth dist.	-1912 Jan 12 j 03:20	3°☿13'43	40.26896 AU		opposition	-1904 Jul 24 j 21:56	14°☿41'26	-13°-2'-46
retrograde	-1912 Apr 21 j 12:37	5°☿01'27			direct	-1904 Oct 13 j 11:06	13°☿35'28	
min. Earth dist.	-1912 Jul 10 j 13:42	3°☿56'04	38.42421 AU		conjunction	-1903 Jan 20 j 05:55	15°☿19'03	-12°-33'-37
opposition	-1912 Jul 13 j 19:23	3°☿51'49	-10°-35'-40		minimum elong	-1903 Jan 20 j 05:44	15°☿19'02	12°33'41
direct	-1912 Oct 02 j 11:25	2°☿43'44			max. Earth dist.	-1903 Jan 23 j 10:58	15°☿24'20	42.42917 AU
conjunction	-1911 Jan 09 j 12:58	4°☿32'16	-10°-14'-8		retrograde	-1903 May 03 j 23:28	17°☿06'55	
minimum elong	-1911 Jan 09 j 12:46	4°☿32'16	10°14'11		min. Earth dist.	-1903 Jul 23 j 08:58	16°☿03'28	40.59392 AU
max. Earth dist.	-1911 Jan 12 j 18:22	4°☿37'49	40.51482 AU		opposition	-1903 Jul 26 j 11:47	15°☿59'31	-13°-18'-33
retrograde	-1911 Apr 23 j 06:20	6°☿24'55			direct	-1903 Oct 15 j 02:16	14°☿53'45	
min. Earth dist.	-1911 Jul 12 j 06:00	5°☿19'46	38.67216 AU		conjunction	-1902 Jan 21 j 18:52	16°☿36'45	-12°-48'-38
opposition	-1911 Jul 15 j 11:54	5°☿15'32	-10°-56'-13		minimum elong	-1902 Jan 21 j 18:40	16°☿36'44	12°48'40
direct	-1911 Oct 04 j 01:46	4°☿07'43			max. Earth dist.	-1902 Jan 24 j 22:40	16°☿41'55	42.65512 AU
conjunction	-1910 Jan 11 j 04:07	5°☿55'34	-10°-33'-35		retrograde	-1902 May 05 j 09:45	18°☿24'02	
minimum elong	-1910 Jan 11 j 03:54	5°☿55'33	10°33'38		min. Earth dist.	-1902 Jul 24 j 21:50	17°☿20'48	40.82030 AU
max. Earth dist.	-1910 Jan 14 j 10:43	6°☿01'10	40.76034 AU		opposition	-1902 Jul 28 j 01:15	17°☿16'49	-13°-33'-47
retrograde	-1910 Apr 24 j 20:55	7°☿47'33			direct	-1902 Oct 16 j 17:58	16°☿11'15	
min. Earth dist.	-1910 Jul 13 j 22:30	6°☿42'38	38.91943 AU		conjunction	-1901 Jan 23 j 07:22	17°☿53'39	-13°-3'-7
opposition	-1910 Jul 17 j 04:00	6°☿38'25	-11°-16'-7		minimum elong	-1901 Jan 23 j 07:11	17°☿53'38	13°03'11
direct	-1910 Oct 05 j 18:35	5°☿30'53			max. Earth dist.	-1901 Jan 26 j 11:12	17°☿58'48	42.87804 AU
conjunction	-1909 Jan 12 j 18:44	7°☿18'05	-10°-52'-26		retrograde	-1901 May 06 j 21:47	19°☿40'23	
minimum elong	-1909 Jan 12 j 18:32	7°☿18'04	10°52'29		min. Earth dist.	-1901 Jul 26 j 12:17	18°☿37'15	41.04408 AU
max. Earth dist.	-1909 Jan 16 j 00:32	7°☿23'35	41.00510 AU		opposition	-1901 Jul 29 j 14:30	18°☿33'21	-13°-48'-29
retrograde	-1909 Apr 26 j 11:39	9°☿09'26			direct	-1901 Oct 18 j 08:22	17°☿27'58	
min. Earth dist.	-1909 Jul 15 j 13:10	8°☿04'49	39.16587 AU		conjunction	-1900 Jan 24 j 19:47	19°☿09'48	-13°-17'-4
opposition	-1909 Jul 18 j 19:43	8°☿00'34	-11°-35'-24		minimum elong	-1900 Jan 24 j 19:37	19°☿09'47	13°17'07
direct	-1909 Oct 07 j 09:57	6°☿53'19			max. Earth dist.	-1900 Jan 27 j 23:40	19°☿14'56	43.09882 AU
conjunction	-1908 Jan 14 j 09:12	8°☿39'52	-11°-10'-41		retrograde	-1900 May 07 j 10:36	20°☿55'58	
minimum elong	-1908 Jan 14 j 08:59	8°☿39'52	11°10'44		min. Earth dist.	-1900 Jul 27 j 00:58	19°☿53'02	41.26573 AU
max. Earth dist.	-1908 Jan 17 j 15:58	8°☿45'26	41.24874 AU		opposition	-1900 Jul 30 j 03:21	19°☿49'08	-14°-2'-37
retrograde	-1908 Apr 27 j 00:01	10°☿30'38			direct	-1900 Oct 18 j 20:51	18°☿43'56	
min. Earth dist.	-1908 Jul 16 j 05:50	9°☿26'13	39.41093 AU					
opposition	-1908 Jul 19 j 11:16	9°☿22'02	-11°-54'-2					
direct	-1908 Oct 08 j 03:38	8°☿15'04						
conjunction	-1907 Jan 14 j 23:23	10°☿01'01	-11°-28'-22					
minimum elong	-1907 Jan 14 j 23:11	10°☿01'00	11°28'25					
max. Earth dist.	-1907 Jan 18 j 05:37	10°☿06'30	41.49079 AU					
retrograde	-1907 Apr 28 j 14:29	11°☿51'12						
min. Earth dist.	-1907 Jul 17 j 20:22	10°☿47'03	39.65392 AU					
opposition	-1907 Jul 21 j 02:21	10°☿42'52	-12°-12'-5					
direct	-1907 Oct 09 j 18:53	9°☿36'10						
conjunction	-1906 Jan 16 j 13:23	11°☿21'31	-11°-45'-29					
minimum elong	-1906 Jan 16 j 13:10	11°☿21'30	11°45'32					
max. Earth dist.	-1906 Jan 19 j 19:14	11°☿26'57	41.73032 AU					
retrograde	-1906 Apr 30 j 06:20	13°☿11'08						
min. Earth dist.	-1906 Jul 19 j 12:10	12°☿07'10	39.89424 AU					
opposition	-1906 Jul 22 j 17:07	12°☿03'04	-12°-29'-32					
direct	-1906 Oct 11 j 07:47	10°☿56'38						
conjunction	-1905 Jan 18 j 03:16	12°☿41'23	-12°-2'-3					