

Wed Feb 1, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.7' SD = 16.2'		SD = 15.9'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	131°23.5'	176°37.0'	S 17°06.2'	129°15.1'	11.0'	S 1°45.2'	11.0'	58.2'
1	146°26.0'	191°36.9'	S 17°05.5'	143°45.1'	11.0'	S 1°34.2'	11.0'	58.2'
2	161°28.4'	206°36.8'	S 17°04.8'	158°15.2'	11.0'	S 1°23.1'	11.1'	58.2'
3	176°30.9'	221°36.8'	S 17°04.1'	172°45.2'	11.0'	S 1°12.0'	11.1'	58.2'
4	191°33.3'	236°36.7'	S 17°03.4'	187°15.2'	11.0'	S 1°01.0'	11.1'	58.3'
5	206°35.8'	251°36.6'	S 17°02.7'	201°45.2'	11.0'	S 0°49.9'	11.1'	58.3'
6	221°38.3'	266°36.5'	S 17°01.9'	216°15.2'	11.0'	S 0°38.8'	11.1'	58.3'
7	236°40.7'	281°36.4'	S 17°01.2'	230°45.1'	11.0'	S 0°27.7'	11.1'	58.3'
8	251°43.2'	296°36.3'	S 17°00.5'	245°15.1'	10.9'	S 0°16.6'	11.1'	58.3'
9	266°45.7'	311°36.3'	S 16°59.8'	259°45.0'	10.9'	S 0°05.5'	11.1'	58.3'
10	281°48.1'	326°36.2'	S 16°59.1'	274°14.9'	10.9'	N 0°05.7'	11.1'	58.4'
11	296°50.6'	341°36.1'	S 16°58.4'	288°44.9'	10.9'	N 0°16.8'	11.1'	58.4'
12	311°53.1'	356°36.0'	S 16°57.6'	303°14.7'	10.9'	N 0°27.9'	11.1'	58.4'
13	326°55.5'	11°35.9'	S 16°56.9'	317°44.6'	10.9'	N 0°39.0'	11.1'	58.4'
14	341°58.0'	26°35.8'	S 16°56.2'	332°14.5'	10.8'	N 0°50.2'	11.1'	58.4'
15	357°00.4'	41°35.8'	S 16°55.5'	346°44.3'	10.8'	N 1°01.3'	11.1'	58.4'
16	12°02.9'	56°35.7'	S 16°54.8'	1°14.2'	10.8'	N 1°12.4'	11.1'	58.4'
17	27°05.4'	71°35.6'	S 16°54.1'	15°44.0'	10.8'	N 1°23.6'	11.1'	58.5'
18	42°07.8'	86°35.5'	S 16°53.3'	30°13.8'	10.8'	N 1°34.7'	11.1'	58.5'
19	57°10.3'	101°35.5'	S 16°52.6'	44°43.5'	10.7'	N 1°45.8'	11.1'	58.5'
20	72°12.8'	116°35.4'	S 16°51.9'	59°13.3'	10.7'	N 1°56.9'	11.1'	58.5'
21	87°15.2'	131°35.3'	S 16°51.2'	73°43.0'	10.7'	N 2°08.1'	11.1'	58.5'
22	102°17.7'	146°35.2'	S 16°50.4'	88°12.7'	10.7'	N 2°19.2'	11.1'	58.5'
23	117°20.2'	161°35.1'	S 16°49.7'	102°42.4'	10.7'	N 2°30.3'	11.1'	58.5'

Thu Feb 2, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.7' SD = 16.2'		SD = 16.0'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	132°22.6'	176°35.1'	S 16°49.0'	117°12.0'	10.6'	N 2°41.3'	11.1'	58.6'
1	147°25.1'	191°35.0'	S 16°48.3'	131°41.7'	10.6'	N 2°52.4'	11.1'	58.6'
2	162°27.6'	206°34.9'	S 16°47.6'	146°11.3'	10.6'	N 3°03.5'	11.1'	58.6'
3	177°30.0'	221°34.8'	S 16°46.8'	160°40.9'	10.6'	N 3°14.5'	11.0'	58.6'
4	192°32.5'	236°34.8'	S 16°46.1'	175°10.4'	10.5'	N 3°25.6'	11.0'	58.6'
5	207°34.9'	251°34.7'	S 16°45.4'	189°40.0'	10.5'	N 3°36.6'	11.0'	58.6'
6	222°37.4'	266°34.6'	S 16°44.7'	204°09.5'	10.5'	N 3°47.6'	11.0'	58.6'
7	237°39.9'	281°34.5'	S 16°43.9'	218°39.0'	10.5'	N 3°58.6'	11.0'	58.7'
8	252°42.3'	296°34.5'	S 16°43.2'	233°08.4'	10.4'	N 4°09.6'	11.0'	58.7'
9	267°44.8'	311°34.4'	S 16°42.5'	247°37.8'	10.4'	N 4°20.6'	10.9'	58.7'
10	282°47.3'	326°34.3'	S 16°41.7'	262°07.2'	10.4'	N 4°31.5'	10.9'	58.7'
11	297°49.7'	341°34.2'	S 16°41.0'	276°36.6'	10.3'	N 4°42.4'	10.9'	58.7'
12	312°52.2'	356°34.2'	S 16°40.3'	291°05.9'	10.3'	N 4°53.3'	10.9'	58.7'
13	327°54.7'	11°34.1'	S 16°39.6'	305°35.2'	10.3'	N 5°04.2'	10.9'	58.7'
14	342°57.1'	26°34.0'	S 16°38.8'	320°04.5'	10.2'	N 5°15.0'	10.8'	58.7'
15	357°59.6'	41°34.0'	S 16°38.1'	334°33.8'	10.2'	N 5°25.9'	10.8'	58.8'
16	13°02.0'	56°33.9'	S 16°37.4'	349°03.0'	10.2'	N 5°36.7'	10.8'	58.8'
17	28°04.5'	71°33.8'	S 16°36.6'	3°32.1'	10.1'	N 5°47.4'	10.7'	58.8'
18	43°07.0'	86°33.7'	S 16°35.9'	18°01.3'	10.1'	N 5°58.2'	10.7'	58.8'
19	58°09.4'	101°33.7'	S 16°35.2'	32°30.4'	10.1'	N 6°08.9'	10.7'	58.8'
20	73°11.9'	116°33.6'	S 16°34.4'	46°59.5'	10.0'	N 6°19.6'	10.7'	58.8'
21	88°14.4'	131°33.5'	S 16°33.7'	61°28.5'	10.0'	N 6°30.2'	10.6'	58.8'
22	103°16.8'	146°33.5'	S 16°33.0'	75°57.5'	10.0'	N 6°40.9'	10.6'	58.8'
23	118°19.3'	161°33.4'	S 16°32.2'	90°26.5'	9.9'	N 6°51.4'	10.6'	58.9'

Fri Feb 3, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.7' SD = 16.2'		SD = 16.1'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	133°21.8'	176°33.3'	S 16°31.5'	104°55.4'	9.9'	N 7°02.0'	10.5'	58.9'
1	148°24.2'	191°33.3'	S 16°30.8'	119°24.3'	9.8'	N 7°12.5'	10.5'	58.9'
2	163°26.7'	206°33.2'	S 16°30.0'	133°53.1'	9.8'	N 7°23.0'	10.4'	58.9'
3	178°29.2'	221°33.1'	S 16°29.3'	148°21.9'	9.8'	N 7°33.4'	10.4'	58.9'
4	193°31.6'	236°33.1'	S 16°28.6'	162°50.7'	9.7'	N 7°43.8'	10.4'	58.9'
5	208°34.1'	251°33.0'	S 16°27.8'	177°19.4'	9.7'	N 7°54.2'	10.3'	58.9'
6	223°36.5'	266°32.9'	S 16°27.1'	191°48.1'	9.7'	N 8°04.5'	10.3'	58.9'
7	238°39.0'	281°32.9'	S 16°26.3'	206°16.8'	9.6'	N 8°14.8'	10.2'	59.0'
8	253°41.5'	296°32.8'	S 16°25.6'	220°45.4'	9.6'	N 8°25.0'	10.2'	59.0'
9	268°43.9'	311°32.7'	S 16°24.9'	235°13.9'	9.5'	N 8°35.2'	10.1'	59.0'
10	283°46.4'	326°32.7'	S 16°24.1'	249°42.5'	9.5'	N 8°45.3'	10.1'	59.0'
11	298°48.9'	341°32.6'	S 16°23.4'	264°11.0'	9.4'	N 8°55.4'	10.0'	59.0'
12	313°51.3'	356°32.5'	S 16°22.6'	278°39.4'	9.4'	N 9°05.5'	10.0'	59.0'
13	328°53.8'	11°32.5'	S 16°21.9'	293°07.8'	9.4'	N 9°15.5'	9.9'	59.0'
14	343°56.3'	26°32.4'	S 16°21.2'	307°36.1'	9.3'	N 9°25.4'	9.9'	59.0'
15	358°58.7'	41°32.4'	S 16°20.4'	322°04.4'	9.3'	N 9°35.3'	9.8'	59.0'
16	14°01.2'	56°32.3'	S 16°19.7'	336°32.7'	9.2'	N 9°45.2'	9.8'	59.1'
17	29°03.7'	71°32.2'	S 16°18.9'	351°00.9'	9.2'	N 9°55.0'	9.7'	59.1'
18	44°06.1'	86°32.2'	S 16°18.2'	5°29.1'	9.1'	N 10°04.7'	9.7'	59.1'
19	59°08.6'	101°32.1'	S 16°17.4'	19°57.2'	9.1'	N 10°14.4'	9.6'	59.1'
20	74°11.0'	116°32.0'	S 16°16.7'	34°25.3'	9.0'	N 10°24.0'	9.6'	59.1'
21	89°13.5'	131°32.0'	S 16°15.9'	48°53.3'	9.0'	N 10°33.6'	9.5'	59.1'
22	104°16.0'	146°31.9'	S 16°15.2'	63°21.3'	8.9'	N 10°43.1'	9.4'	59.1'
23	119°18.4'	161°31.9'	S 16°14.5'	77°49.3'	8.9'	N 10°52.5'	9.4'	59.1'

Sat Feb 4, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.8' SD = 16.2'		SD = 16.2'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	134°20.9'	176°31.8'	S 16°13.7'	92°17.2'	8.8'	N 11°01.9'	9.3'	59.1'
1	149°23.4'	191°31.7'	S 16°13.0'	106°45.0'	8.8'	N 11°11.2'	9.3'	59.1'
2	164°25.8'	206°31.7'	S 16°12.2'	121°12.8'	8.7'	N 11°20.5'	9.2'	59.1'
3	179°28.3'	221°31.6'	S 16°11.5'	135°40.5'	8.7'	N 11°29.7'	9.1'	59.2'
4	194°30.8'	236°31.6'	S 16°10.7'	150°08.2'	8.7'	N 11°38.8'	9.1'	59.2'
5	209°33.2'	251°31.5'	S 16°10.0'	164°35.9'	8.6'	N 11°47.9'	9.0'	59.2'
6	224°35.7'	266°31.5'	S 16°09.2'	179°03.5'	8.6'	N 11°56.8'	8.9'	59.2'
7	239°38.1'	281°31.4'	S 16°08.5'	193°31.0'	8.5'	N 12°05.8'	8.9'	59.2'
8	254°40.6'	296°31.3'	S 16°07.7'	207°58.5'	8.5'	N 12°14.6'	8.8'	59.2'
9	269°43.1'	311°31.3'	S 16°07.0'	222°26.0'	8.4'	N 12°23.4'	8.7'	59.2'
10	284°45.5'	326°31.2'	S 16°06.2'	236°53.4'	8.4'	N 12°32.1'	8.6'	59.2'
11	299°48.0'	341°31.2'	S 16°05.5'	251°20.8'	8.3'	N 12°40.8'	8.6'	59.2'
12	314°50.5'	356°31.1'	S 16°04.7'	265°48.1'	8.3'	N 12°49.3'	8.5'	59.2'
13	329°52.9'	11°31.1'	S 16°04.0'	280°15.3'	8.2'	N 12°57.8'	8.4'	59.2'
14	344°55.4'	26°31.0'	S 16°03.2'	294°42.5'	8.2'	N 13°06.2'	8.3'	59.3'
15	359°57.9'	41°31.0'	S 16°02.4'	309°09.7'	8.1'	N 13°14.5'	8.3'	59.3'
16	15°00.3'	56°30.9'	S 16°01.7'	323°36.8'	8.1'	N 13°22.8'	8.2'	59.3'
17	30°02.8'	71°30.9'	S 16°00.9'	338°03.8'	8.0'	N 13°31.0'	8.1'	59.3'
18	45°05.3'	86°30.8'	S 16°00.2'	352°30.8'	8.0'	N 13°39.1'	8.0'	59.3'
19	60°07.7'	101°30.7'	S 15°59.4'	6°57.8'	7.9'	N 13°47.1'	7.9'	59.3'
20	75°10.2'	116°30.7'	S 15°58.7'	21°24.7'	7.9'	N 13°55.0'	7.8'	59.3'
21	90°12.6'	131°30.6'	S 15°57.9'	35°51.6'	7.8'	N 14°02.9'	7.8'	59.3'
22	105°15.1'	146°30.6'	S 15°57.2'	50°18.4'	7.8'	N 14°10.6'	7.7'	59.3'
23	120°17.6'	161°30.5'	S 15°56.4'	64°45.1'	7.7'	N 14°18.3'	7.6'	59.3'

Sun Feb 5, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.8' SD = 16.2'		SD = 16.2'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	135°20.0'	176°30.5'	S 15°55.6'	79°11.8'	7.7'	N 14°25.9'	7.5'	59.3'
1	150°22.5'	191°30.4'	S 15°54.9'	93°38.5'	7.6'	N 14°33.4'	7.4'	59.3'
2	165°25.0'	206°30.4'	S 15°54.1'	108°05.1'	7.6'	N 14°40.8'	7.3'	59.3'
3	180°27.4'	221°30.3'	S 15°53.4'	122°31.6'	7.5'	N 14°48.1'	7.2'	59.3'
4	195°29.9'	236°30.3'	S 15°52.6'	136°58.2'	7.5'	N 14°55.3'	7.1'	59.3'
5	210°32.4'	251°30.2'	S 15°51.8'	151°24.6'	7.4'	N 15°02.5'	7.0'	59.4'
6	225°34.8'	266°30.2'	S 15°51.1'	165°51.0'	7.4'	N 15°09.5'	7.0'	59.4'
7	240°37.3'	281°30.1'	S 15°50.3'	180°17.4'	7.3'	N 15°16.5'	6.9'	59.4'
8	255°39.8'	296°30.1'	S 15°49.6'	194°43.7'	7.3'	N 15°23.3'	6.8'	59.4'
9	270°42.2'	311°30.1'	S 15°48.8'	209°10.0'	7.2'	N 15°30.1'	6.7'	59.4'
10	285°44.7'	326°30.0'	S 15°48.0'	223°36.2'	7.2'	N 15°36.8'	6.6'	59.4'
11	300°47.1'	341°30.0'	S 15°47.3'	238°02.4'	7.1'	N 15°43.3'	6.5'	59.4'
12	315°49.6'	356°29.9'	S 15°46.5'	252°28.5'	7.1'	N 15°49.8'	6.4'	59.4'
13	330°52.1'	11°29.9'	S 15°45.7'	266°54.6'	7.0'	N 15°56.2'	6.3'	59.4'
14	345°54.5'	26°29.8'	S 15°45.0'	281°20.6'	7.0'	N 16°02.4'	6.2'	59.4'
15	0°57.0'	41°29.8'	S 15°44.2'	295°46.6'	6.9'	N 16°08.6'	6.1'	59.4'
16	15°59.5'	56°29.7'	S 15°43.4'	310°12.6'	6.9'	N 16°14.7'	6.0'	59.4'
17	31°01.9'	71°29.7'	S 15°42.7'	324°38.5'	6.9'	N 16°20.6'	5.9'	59.4'
18	46°04.4'	86°29.6'	S 15°41.9'	339°04.3'	6.8'	N 16°26.5'	5.8'	59.4'
19	61°06.9'	101°29.6'	S 15°41.1'	353°30.1'	6.8'	N 16°32.2'	5.6'	59.4'
20	76°09.3'	116°29.6'	S 15°40.4'	7°55.9'	6.7'	N 16°37.9'	5.5'	59.4'
21	91°11.8'	131°29.5'	S 15°39.6'	22°21.6'	6.7'	N 16°43.4'	5.4'	59.4'
22	106°14.3'	146°29.5'	S 15°38.8'	36°47.3'	6.7'	N 16°48.8'	5.3'	59.4'
23	121°16.7'	161°29.4'	S 15°38.1'	51°13.0'	6.6'	N 16°54.2'	5.2'	59.4'

Mon Feb 6, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.8' SD = 16.2'		SD = 16.2'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	136°19.2'	176°29.4'	S 15°37.3'	65°38.6'	6.6'	N 16°59.4'	5.1'	59.4'
1	151°21.6'	191°29.3'	S 15°36.5'	80°04.2'	6.5'	N 17°04.5'	5.0'	59.4'
2	166°24.1'	206°29.3'	S 15°35.8'	94°29.7'	6.5'	N 17°09.5'	4.9'	59.4'
3	181°26.6'	221°29.3'	S 15°35.0'	108°55.2'	6.5'	N 17°14.4'	4.8'	59.4'
4	196°29.0'	236°29.2'	S 15°34.2'	123°20.7'	6.4'	N 17°19.1'	4.7'	59.4'
5	211°31.5'	251°29.2'	S 15°33.4'	137°46.1'	6.4'	N 17°23.8'	4.5'	59.4'
6	226°34.0'	266°29.1'	S 15°32.7'	152°11.5'	6.4'	N 17°28.3'	4.4'	59.4'
7	241°36.4'	281°29.1'	S 15°31.9'	166°36.8'	6.3'	N 17°32.8'	4.3'	59.4'
8	256°38.9'	296°29.1'	S 15°31.1'	181°02.1'	6.3'	N 17°37.1'	4.2'	59.4'
9	271°41.4'	311°29.0'	S 15°30.3'	195°27.4'	6.3'	N 17°41.3'	4.1'	59.4'
10	286°43.8'	326°29.0'	S 15°29.6'	209°52.7'	6.2'	N 17°45.4'	4.0'	59.5'
11	301°46.3'	341°28.9'	S 15°28.8'	224°17.9'	6.2'	N 17°49.4'	3.9'	59.5'
12	316°48.7'	356°28.9'	S 15°28.0'	238°43.1'	6.2'	N 17°53.2'	3.7'	59.5'
13	331°51.2'	11°28.9'	S 15°27.2'	253°08.2'	6.1'	N 17°56.9'	3.6'	59.5'
14	346°53.7'	26°28.8'	S 15°26.5'	267°33.4'	6.1'	N 18°00.6'	3.5'	59.5'
15	1°56.1'	41°28.8'	S 15°25.7'	281°58.5'	6.1'	N 18°04.1'	3.4'	59.5'
16	16°58.6'	56°28.8'	S 15°24.9'	296°23.5'	6.1'	N 18°07.4'	3.3'	59.5'
17	32°01.1'	71°28.7'	S 15°24.1'	310°48.6'	6.0'	N 18°10.7'	3.1'	59.4'
18	47°03.5'	86°28.7'	S 15°23.4'	325°13.6'	6.0'	N 18°13.8'	3.0'	59.4'
19	62°06.0'	101°28.7'	S 15°22.6'	339°38.6'	6.0'	N 18°16.8'	2.9'	59.4'
20	77°08.5'	116°28.6'	S 15°21.8'	354°03.6'	6.0'	N 18°19.7'	2.8'	59.4'
21	92°10.9'	131°28.6'	S 15°21.0'	8°28.6'	5.9'	N 18°22.5'	2.6'	59.4'
22	107°13.4'	146°28.5'	S 15°20.2'	22°53.5'	5.9'	N 18°25.2'	2.5'	59.4'
23	122°15.9'	161°28.5'	S 15°19.5'	37°18.4'	5.9'	N 18°27.7'	2.4'	59.4'

Tue Feb 7, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.8' SD = 16.2'		SD = 16.2'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	137°18.3'	176°28.5'	S 15°18.7'	51°43.3'	5.9'	N 18°30.1'	2.3'	59.4'
1	152°20.8'	191°28.4'	S 15°17.9'	66°08.2'	5.9'	N 18°32.4'	2.2'	59.4'
2	167°23.2'	206°28.4'	S 15°17.1'	80°33.1'	5.9'	N 18°34.5'	2.0'	59.4'
3	182°25.7'	221°28.4'	S 15°16.3'	94°57.9'	5.8'	N 18°36.6'	1.9'	59.4'
4	197°28.2'	236°28.3'	S 15°15.6'	109°22.7'	5.8'	N 18°38.5'	1.8'	59.4'
5	212°30.6'	251°28.3'	S 15°14.8'	123°47.6'	5.8'	N 18°40.2'	1.7'	59.4'
6	227°33.1'	266°28.3'	S 15°14.0'	138°12.4'	5.8'	N 18°41.9'	1.5'	59.4'
7	242°35.6'	281°28.3'	S 15°13.2'	152°37.2'	5.8'	N 18°43.4'	1.4'	59.4'
8	257°38.0'	296°28.2'	S 15°12.4'	167°02.0'	5.8'	N 18°44.8'	1.3'	59.4'
9	272°40.5'	311°28.2'	S 15°11.6'	181°26.8'	5.8'	N 18°46.1'	1.2'	59.4'
10	287°43.0'	326°28.2'	S 15°10.9'	195°51.5'	5.8'	N 18°47.3'	1.0'	59.4'
11	302°45.4'	341°28.1'	S 15°10.1'	210°16.3'	5.8'	N 18°48.3'	0.9'	59.4'
12	317°47.9'	356°28.1'	S 15°09.3'	224°41.1'	5.8'	N 18°49.2'	0.8'	59.4'
13	332°50.4'	11°28.1'	S 15°08.5'	239°05.9'	5.8'	N 18°50.0'	0.7'	59.4'
14	347°52.8'	26°28.0'	S 15°07.7'	253°30.6'	5.8'	N 18°50.6'	0.5'	59.4'
15	2°55.3'	41°28.0'	S 15°06.9'	267°55.4'	5.8'	N 18°51.2'	0.4'	59.4'
16	17°57.7'	56°28.0'	S 15°06.1'	282°20.2'	5.8'	N 18°51.6'	0.3'	59.4'
17	33°00.2'	71°28.0'	S 15°05.3'	296°44.9'	5.8'	N 18°51.8'	0.1'	59.4'
18	48°02.7'	86°27.9'	S 15°04.6'	311°09.7'	5.8'	N 18°52.0'	0.0'	59.4'
19	63°05.1'	101°27.9'	S 15°03.8'	325°34.5'	5.8'	N 18°52.0'	0.1'	59.4'
20	78°07.6'	116°27.9'	S 15°03.0'	339°59.3'	5.8'	N 18°51.9'	0.2'	59.3'
21	93°10.1'	131°27.9'	S 15°02.2'	354°24.0'	5.8'	N 18°51.7'	0.4'	59.3'
22	108°12.5'	146°27.8'	S 15°01.4'	8°48.8'	5.8'	N 18°51.3'	0.5'	59.3'
23	123°15.0'	161°27.8'	S 15°00.6'	23°13.6'	5.8'	N 18°50.8'	0.6'	59.3'

Wed Feb 8, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.8' SD = 16.2'		SD = 16.2'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	138°17.5'	176°27.8'	S 14°59.8'	37°38.5'	5.8'	N 18°50.2'	0.7'	59.3'
1	153°19.9'	191°27.8'	S 14°59.0'	52°03.3'	5.8'	N 18°49.5'	0.9'	59.3'
2	168°22.4'	206°27.7'	S 14°58.2'	66°28.1'	5.9'	N 18°48.6'	1.0'	59.3'
3	183°24.9'	221°27.7'	S 14°57.4'	80°53.0'	5.9'	N 18°47.6'	1.1'	59.3'
4	198°27.3'	236°27.7'	S 14°56.6'	95°17.9'	5.9'	N 18°46.5'	1.2'	59.3'
5	213°29.8'	251°27.7'	S 14°55.9'	109°42.8'	5.9'	N 18°45.3'	1.4'	59.3'
6	228°32.2'	266°27.6'	S 14°55.1'	124°07.7'	5.9'	N 18°43.9'	1.5'	59.3'
7	243°34.7'	281°27.6'	S 14°54.3'	138°32.6'	6.0'	N 18°42.4'	1.6'	59.3'
8	258°37.2'	296°27.6'	S 14°53.5'	152°57.6'	6.0'	N 18°40.8'	1.7'	59.2'
9	273°39.6'	311°27.6'	S 14°52.7'	167°22.5'	6.0'	N 18°39.1'	1.9'	59.2'
10	288°42.1'	326°27.5'	S 14°51.9'	181°47.5'	6.0'	N 18°37.2'	2.0'	59.2'
11	303°44.6'	341°27.5'	S 14°51.1'	196°12.5'	6.0'	N 18°35.2'	2.1'	59.2'
12	318°47.0'	356°27.5'	S 14°50.3'	210°37.6'	6.1'	N 18°33.1'	2.2'	59.2'
13	333°49.5'	11°27.5'	S 14°49.5'	225°02.7'	6.1'	N 18°30.9'	2.3'	59.2'
14	348°52.0'	26°27.5'	S 14°48.7'	239°27.8'	6.1'	N 18°28.6'	2.5'	59.2'
15	3°54.4'	41°27.4'	S 14°47.9'	253°52.9'	6.2'	N 18°26.1'	2.6'	59.2'
16	18°56.9'	56°27.4'	S 14°47.1'	268°18.1'	6.2'	N 18°23.5'	2.7'	59.2'
17	33°59.3'	71°27.4'	S 14°46.3'	282°43.3'	6.2'	N 18°20.8'	2.8'	59.1'
18	49°01.8'	86°27.4'	S 14°45.5'	297°08.5'	6.3'	N 18°18.0'	2.9'	59.1'
19	64°04.3'	101°27.4'	S 14°44.7'	311°33.7'	6.3'	N 18°15.0'	3.1'	59.1'
20	79°06.7'	116°27.4'	S 14°43.9'	325°59.0'	6.3'	N 18°12.0'	3.2'	59.1'
21	94°09.2'	131°27.3'	S 14°43.1'	340°24.4'	6.4'	N 18°08.8'	3.3'	59.1'
22	109°11.7'	146°27.3'	S 14°42.3'	354°49.7'	6.4'	N 18°05.5'	3.4'	59.1'
23	124°14.1'	161°27.3'	S 14°41.5'	9°15.1'	6.4'	N 18°02.1'	3.5'	59.1'

Thu Feb 9, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.8' SD = 16.2'		SD = 16.1'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	139°16.6'	176°27.3'	S 14°40.7'	23°40.6'	6.5'	N 17°58.5'	3.6'	59.0'
1	154°19.1'	191°27.3'	S 14°39.9'	38°06.1'	6.5'	N 17°54.9'	3.8'	59.0'
2	169°21.5'	206°27.2'	S 14°39.1'	52°31.6'	6.6'	N 17°51.1'	3.9'	59.0'
3	184°24.0'	221°27.2'	S 14°38.3'	66°57.2'	6.6'	N 17°47.3'	4.0'	59.0'
4	199°26.5'	236°27.2'	S 14°37.5'	81°22.8'	6.7'	N 17°43.3'	4.1'	59.0'
5	214°28.9'	251°27.2'	S 14°36.7'	95°48.4'	6.7'	N 17°39.2'	4.2'	59.0'
6	229°31.4'	266°27.2'	S 14°35.9'	110°14.1'	6.7'	N 17°35.0'	4.3'	59.0'
7	244°33.8'	281°27.2'	S 14°35.1'	124°39.9'	6.8'	N 17°30.6'	4.4'	58.9'
8	259°36.3'	296°27.2'	S 14°34.3'	139°05.7'	6.8'	N 17°26.2'	4.5'	58.9'
9	274°38.8'	311°27.1'	S 14°33.5'	153°31.5'	6.9'	N 17°21.7'	4.7'	58.9'
10	289°41.2'	326°27.1'	S 14°32.7'	167°57.4'	6.9'	N 17°17.0'	4.8'	58.9'
11	304°43.7'	341°27.1'	S 14°31.9'	182°23.4'	7.0'	N 17°12.2'	4.9'	58.9'
12	319°46.2'	356°27.1'	S 14°31.0'	196°49.4'	7.0'	N 17°07.4'	5.0'	58.9'
13	334°48.6'	11°27.1'	S 14°30.2'	211°15.4'	7.1'	N 17°02.4'	5.1'	58.8'
14	349°51.1'	26°27.1'	S 14°29.4'	225°41.5'	7.2'	N 16°57.3'	5.2'	58.8'
15	4°53.6'	41°27.1'	S 14°28.6'	240°07.7'	7.2'	N 16°52.1'	5.3'	58.8'
16	19°56.0'	56°27.1'	S 14°27.8'	254°33.9'	7.3'	N 16°46.9'	5.4'	58.8'
17	34°58.5'	71°27.0'	S 14°27.0'	269°00.1'	7.3'	N 16°41.5'	5.5'	58.8'
18	50°01.0'	86°27.0'	S 14°26.2'	283°26.4'	7.4'	N 16°36.0'	5.6'	58.7'
19	65°03.4'	101°27.0'	S 14°25.4'	297°52.8'	7.4'	N 16°30.4'	5.7'	58.7'
20	80°05.9'	116°27.0'	S 14°24.6'	312°19.2'	7.5'	N 16°24.7'	5.8'	58.7'
21	95°08.3'	131°27.0'	S 14°23.8'	326°45.7'	7.5'	N 16°18.9'	5.9'	58.7'
22	110°10.8'	146°27.0'	S 14°23.0'	341°12.3'	7.6'	N 16°13.0'	6.0'	58.7'
23	125°13.3'	161°27.0'	S 14°22.1'	355°38.9'	7.7'	N 16°07.0'	6.1'	58.6'

Fri Feb 10, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.8' SD = 16.2'		SD = 15.9'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	140°15.7'	176°27.0'	S 14°21.3'	10°05.5'	7.7'	N 16°01.0'	6.2'	58.6'
1	155°18.2'	191°27.0'	S 14°20.5'	24°32.3'	7.8'	N 15°54.8'	6.3'	58.6'
2	170°20.7'	206°27.0'	S 14°19.7'	38°59.0'	7.8'	N 15°48.5'	6.4'	58.6'
3	185°23.1'	221°27.0'	S 14°18.9'	53°25.9'	7.9'	N 15°42.2'	6.5'	58.6'
4	200°25.6'	236°26.9'	S 14°18.1'	67°52.8'	8.0'	N 15°35.7'	6.5'	58.5'
5	215°28.1'	251°26.9'	S 14°17.3'	82°19.7'	8.0'	N 15°29.2'	6.6'	58.5'
6	230°30.5'	266°26.9'	S 14°16.5'	96°46.8'	8.1'	N 15°22.5'	6.7'	58.5'
7	245°33.0'	281°26.9'	S 14°15.6'	111°13.9'	8.2'	N 15°15.8'	6.8'	58.5'
8	260°35.5'	296°26.9'	S 14°14.8'	125°41.0'	8.2'	N 15°09.0'	6.9'	58.5'
9	275°37.9'	311°26.9'	S 14°14.0'	140°08.2'	8.3'	N 15°02.1'	7.0'	58.4'
10	290°40.4'	326°26.9'	S 14°13.2'	154°35.5'	8.3'	N 14°55.1'	7.1'	58.4'
11	305°42.8'	341°26.9'	S 14°12.4'	169°02.8'	8.4'	N 14°48.1'	7.1'	58.4'
12	320°45.3'	356°26.9'	S 14°11.6'	183°30.3'	8.5'	N 14°40.9'	7.2'	58.4'
13	335°47.8'	11°26.9'	S 14°10.7'	197°57.7'	8.5'	N 14°33.7'	7.3'	58.3'
14	350°50.2'	26°26.9'	S 14°09.9'	212°25.3'	8.6'	N 14°26.4'	7.4'	58.3'
15	5°52.7'	41°26.9'	S 14°09.1'	226°52.9'	8.7'	N 14°19.0'	7.5'	58.3'
16	20°55.2'	56°26.9'	S 14°08.3'	241°20.5'	8.7'	N 14°11.5'	7.5'	58.3'
17	35°57.6'	71°26.9'	S 14°07.5'	255°48.3'	8.8'	N 14°04.0'	7.6'	58.3'
18	51°00.1'	86°26.9'	S 14°06.7'	270°16.1'	8.9'	N 13°56.4'	7.7'	58.2'
19	66°02.6'	101°26.9'	S 14°05.8'	284°43.9'	8.9'	N 13°48.7'	7.8'	58.2'
20	81°05.0'	116°26.9'	S 14°05.0'	299°11.9'	9.0'	N 13°40.9'	7.8'	58.2'
21	96°07.5'	131°26.9'	S 14°04.2'	313°39.9'	9.1'	N 13°33.1'	7.9'	58.2'
22	111°09.9'	146°26.9'	S 14°03.4'	328°07.9'	9.1'	N 13°25.1'	8.0'	58.1'
23	126°12.4'	161°26.9'	S 14°02.6'	342°36.1'	9.2'	N 13°17.2'	8.1'	58.1'

Sat Feb 11, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.8' SD = 16.2'		SD = 15.8'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	141°14.9'	176°26.9'	S 14°01.7'	357°04.3'	9.3'	N 13°09.1'	8.1'	58.1'
1	156°17.3'	191°26.9'	S 14°00.9'	11°32.5'	9.3'	N 13°01.0'	8.2'	58.1'
2	171°19.8'	206°26.9'	S 14°00.1'	26°00.8'	9.4'	N 12°52.8'	8.3'	58.0'
3	186°22.3'	221°26.9'	S 13°59.3'	40°29.2'	9.5'	N 12°44.5'	8.3'	58.0'
4	201°24.7'	236°26.9'	S 13°58.4'	54°57.7'	9.5'	N 12°36.2'	8.4'	58.0'
5	216°27.2'	251°26.9'	S 13°57.6'	69°26.2'	9.6'	N 12°27.8'	8.5'	58.0'
6	231°29.7'	266°26.9'	S 13°56.8'	83°54.8'	9.7'	N 12°19.4'	8.5'	57.9'
7	246°32.1'	281°26.9'	S 13°56.0'	98°23.5'	9.7'	N 12°10.9'	8.6'	57.9'
8	261°34.6'	296°26.9'	S 13°55.1'	112°52.2'	9.8'	N 12°02.3'	8.6'	57.9'
9	276°37.1'	311°26.9'	S 13°54.3'	127°21.0'	9.9'	N 11°53.7'	8.7'	57.9'
10	291°39.5'	326°26.9'	S 13°53.5'	141°49.9'	9.9'	N 11°45.0'	8.7'	57.8'
11	306°42.0'	341°26.9'	S 13°52.7'	156°18.8'	10.0'	N 11°36.2'	8.8'	57.8'
12	321°44.4'	356°26.9'	S 13°51.8'	170°47.8'	10.1'	N 11°27.4'	8.9'	57.8'
13	336°46.9'	11°26.9'	S 13°51.0'	185°16.9'	10.1'	N 11°18.6'	8.9'	57.7'
14	351°49.4'	26°26.9'	S 13°50.2'	199°46.0'	10.2'	N 11°09.6'	9.0'	57.7'
15	6°51.8'	41°26.9'	S 13°49.4'	214°15.2'	10.3'	N 11°00.7'	9.0'	57.7'
16	21°54.3'	56°26.9'	S 13°48.5'	228°44.5'	10.3'	N 10°51.7'	9.1'	57.7'
17	36°56.8'	71°26.9'	S 13°47.7'	243°13.8'	10.4'	N 10°42.6'	9.1'	57.6'
18	51°59.2'	86°26.9'	S 13°46.9'	257°43.2'	10.5'	N 10°33.5'	9.2'	57.6'
19	67°01.7'	101°26.9'	S 13°46.0'	272°12.7'	10.5'	N 10°24.3'	9.2'	57.6'
20	82°04.2'	116°26.9'	S 13°45.2'	286°42.2'	10.6'	N 10°15.1'	9.3'	57.6'
21	97°06.6'	131°26.9'	S 13°44.4'	301°11.8'	10.6'	N 10°05.8'	9.3'	57.5'
22	112°09.1'	146°26.9'	S 13°43.6'	315°41.4'	10.7'	N 9°56.5'	9.3'	57.5'
23	127°11.6'	161°27.0'	S 13°42.7'	330°11.1'	10.8'	N 9°47.2'	9.4'	57.5'

Sun Feb 12, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.8' SD = 16.2'		SD = 15.6'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	142°14.0'	176°27.0'	S 13°41.9'	344°40.9'	10.8'	N 9°37.8'	9.4'	57.4'
1	157°16.5'	191°27.0'	S 13°41.1'	359°10.8'	10.9'	N 9°28.4'	9.5'	57.4'
2	172°18.9'	206°27.0'	S 13°40.2'	13°40.7'	11.0'	N 9°18.9'	9.5'	57.4'
3	187°21.4'	221°27.0'	S 13°39.4'	28°10.6'	11.0'	N 9°09.4'	9.5'	57.4'
4	202°23.9'	236°27.0'	S 13°38.6'	42°40.6'	11.1'	N 8°59.8'	9.6'	57.3'
5	217°26.3'	251°27.0'	S 13°37.7'	57°10.7'	11.2'	N 8°50.3'	9.6'	57.3'
6	232°28.8'	266°27.0'	S 13°36.9'	71°40.9'	11.2'	N 8°40.6'	9.7'	57.3'
7	247°31.3'	281°27.0'	S 13°36.1'	86°11.1'	11.3'	N 8°31.0'	9.7'	57.2'
8	262°33.7'	296°27.0'	S 13°35.2'	100°41.4'	11.3'	N 8°21.3'	9.7'	57.2'
9	277°36.2'	311°27.0'	S 13°34.4'	115°11.7'	11.4'	N 8°11.6'	9.8'	57.2'
10	292°38.7'	326°27.0'	S 13°33.6'	129°42.1'	11.5'	N 8°01.8'	9.8'	57.2'
11	307°41.1'	341°27.1'	S 13°32.7'	144°12.5'	11.5'	N 7°52.0'	9.8'	57.1'
12	322°43.6'	356°27.1'	S 13°31.9'	158°43.1'	11.6'	N 7°42.2'	9.8'	57.1'
13	337°46.0'	11°27.1'	S 13°31.1'	173°13.6'	11.6'	N 7°32.3'	9.9'	57.1'
14	352°48.5'	26°27.1'	S 13°30.2'	187°44.3'	11.7'	N 7°22.5'	9.9'	57.0'
15	7°51.0'	41°27.1'	S 13°29.4'	202°14.9'	11.7'	N 7°12.6'	9.9'	57.0'
16	22°53.4'	56°27.1'	S 13°28.5'	216°45.7'	11.8'	N 7°02.6'	10.0'	57.0'
17	37°55.9'	71°27.1'	S 13°27.7'	231°16.5'	11.9'	N 6°52.7'	10.0'	57.0'
18	52°58.4'	86°27.1'	S 13°26.9'	245°47.3'	11.9'	N 6°42.7'	10.0'	56.9'
19	68°00.8'	101°27.2'	S 13°26.0'	260°18.2'	12.0'	N 6°32.7'	10.0'	56.9'
20	83°03.3'	116°27.2'	S 13°25.2'	274°49.2'	12.0'	N 6°22.7'	10.0'	56.9'
21	98°05.8'	131°27.2'	S 13°24.4'	289°20.2'	12.1'	N 6°12.7'	10.1'	56.8'
22	113°08.2'	146°27.2'	S 13°23.5'	303°51.3'	12.1'	N 6°02.6'	10.1'	56.8'
23	128°10.7'	161°27.2'	S 13°22.7'	318°22.4'	12.2'	N 5°52.5'	10.1'	56.8'

Mon Feb 13, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.8' SD = 16.2'		SD = 15.4'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	143°13.2'	176°27.2'	S 13°21.8'	332°53.6'	12.2'	N 5°42.4'	10.1'	56.8'
1	158°15.6'	191°27.2'	S 13°21.0'	347°24.8'	12.3'	N 5°32.3'	10.1'	56.7'
2	173°18.1'	206°27.3'	S 13°20.1'	1°56.1'	12.3'	N 5°22.2'	10.1'	56.7'
3	188°20.5'	221°27.3'	S 13°19.3'	16°27.4'	12.4'	N 5°12.0'	10.2'	56.7'
4	203°23.0'	236°27.3'	S 13°18.5'	30°58.8'	12.4'	N 5°01.9'	10.2'	56.6'
5	218°25.5'	251°27.3'	S 13°17.6'	45°30.2'	12.5'	N 4°51.7'	10.2'	56.6'
6	233°27.9'	266°27.3'	S 13°16.8'	60°01.7'	12.5'	N 4°41.5'	10.2'	56.6'
7	248°30.4'	281°27.3'	S 13°15.9'	74°33.3'	12.6'	N 4°31.3'	10.2'	56.6'
8	263°32.9'	296°27.4'	S 13°15.1'	89°04.8'	12.6'	N 4°21.1'	10.2'	56.5'
9	278°35.3'	311°27.4'	S 13°14.3'	103°36.5'	12.7'	N 4°10.9'	10.2'	56.5'
10	293°37.8'	326°27.4'	S 13°13.4'	118°08.1'	12.7'	N 4°00.6'	10.2'	56.5'
11	308°40.3'	341°27.4'	S 13°12.6'	132°39.9'	12.8'	N 3°50.4'	10.2'	56.4'
12	323°42.7'	356°27.4'	S 13°11.7'	147°11.6'	12.8'	N 3°40.1'	10.3'	56.4'
13	338°45.2'	11°27.5'	S 13°10.9'	161°43.4'	12.9'	N 3°29.9'	10.3'	56.4'
14	353°47.6'	26°27.5'	S 13°10.0'	176°15.3'	12.9'	N 3°19.6'	10.3'	56.4'
15	8°50.1'	41°27.5'	S 13°09.2'	190°47.2'	12.9'	N 3°09.4'	10.3'	56.3'
16	23°52.6'	56°27.5'	S 13°08.3'	205°19.1'	13.0'	N 2°59.1'	10.3'	56.3'
17	38°55.0'	71°27.5'	S 13°07.5'	219°51.1'	13.0'	N 2°48.9'	10.3'	56.3'
18	53°57.5'	86°27.6'	S 13°06.6'	234°23.1'	13.1'	N 2°38.6'	10.3'	56.2'
19	68°60.0'	101°27.6'	S 13°05.8'	248°55.2'	13.1'	N 2°28.3'	10.3'	56.2'
20	84°02.4'	116°27.6'	S 13°04.9'	263°27.3'	13.1'	N 2°18.0'	10.3'	56.2'
21	99°04.9'	131°27.6'	S 13°04.1'	277°59.5'	13.2'	N 2°07.8'	10.3'	56.2'
22	114°07.4'	146°27.6'	S 13°03.2'	292°31.7'	13.2'	N 1°57.5'	10.3'	56.1'
23	129°09.8'	161°27.7'	S 13°02.4'	307°03.9'	13.3'	N 1°47.2'	10.3'	56.1'

Tue Feb 14, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 16.2'		SD = 15.2'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	144°12.3'	176°27.7'	S 13°01.6'	321°36.2'	13.3'	N 1°37.0'	10.3'	56.1'
1	159°14.8'	191°27.7'	S 13°00.7'	336°08.5'	13.3'	N 1°26.7'	10.3'	56.0'
2	174°17.2'	206°27.7'	S 12°59.9'	350°40.8'	13.4'	N 1°16.5'	10.3'	56.0'
3	189°19.7'	221°27.8'	S 12°59.0'	5°13.2'	13.4'	N 1°06.2'	10.2'	56.0'
4	204°22.1'	236°27.8'	S 12°58.2'	19°45.6'	13.4'	N 0°56.0'	10.2'	56.0'
5	219°24.6'	251°27.8'	S 12°57.3'	34°18.0'	13.5'	N 0°45.7'	10.2'	55.9'
6	234°27.1'	266°27.8'	S 12°56.4'	48°50.5'	13.5'	N 0°35.5'	10.2'	55.9'
7	249°29.5'	281°27.9'	S 12°55.6'	63°23.0'	13.5'	N 0°25.3'	10.2'	55.9'
8	264°32.0'	296°27.9'	S 12°54.7'	77°55.6'	13.6'	N 0°15.1'	10.2'	55.9'
9	279°34.5'	311°27.9'	S 12°53.9'	92°28.1'	13.6'	N 0°04.9'	10.2'	55.8'
10	294°36.9'	326°27.9'	S 12°53.0'	107°00.8'	13.6'	S 0°05.3'	10.2'	55.8'
11	309°39.4'	341°28.0'	S 12°52.2'	121°33.4'	13.7'	S 0°15.5'	10.2'	55.8'
12	324°41.9'	356°28.0'	S 12°51.3'	136°06.1'	13.7'	S 0°25.7'	10.2'	55.7'
13	339°44.3'	11°28.0'	S 12°50.5'	150°38.8'	13.7'	S 0°35.9'	10.1'	55.7'
14	354°46.8'	26°28.0'	S 12°49.6'	165°11.5'	13.8'	S 0°46.0'	10.1'	55.7'
15	9°49.3'	41°28.1'	S 12°48.8'	179°44.3'	13.8'	S 0°56.1'	10.1'	55.7'
16	24°51.7'	56°28.1'	S 12°47.9'	194°17.0'	13.8'	S 1°06.2'	10.1'	55.6'
17	39°54.2'	71°28.1'	S 12°47.1'	208°49.9'	13.8'	S 1°16.3'	10.1'	55.6'
18	54°56.6'	86°28.2'	S 12°46.2'	223°22.7'	13.9'	S 1°26.4'	10.1'	55.6'
19	69°59.1'	101°28.2'	S 12°45.3'	237°55.6'	13.9'	S 1°36.5'	10.1'	55.6'
20	85°01.6'	116°28.2'	S 12°44.5'	252°28.4'	13.9'	S 1°46.6'	10.0'	55.5'
21	100°04.0'	131°28.2'	S 12°43.6'	267°01.4'	13.9'	S 1°56.6'	10.0'	55.5'
22	115°06.5'	146°28.3'	S 12°42.8'	281°34.3'	14.0'	S 2°06.6'	10.0'	55.5'
23	130°09.0'	161°28.3'	S 12°41.9'	296°07.2'	14.0'	S 2°16.6'	10.0'	55.5'

Wed Feb 15, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 16.2'		SD = 15.1'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	145°11.4'	176°28.3'	S 12°41.1'	310°40.2'	14.0'	S 2°26.6'	10.0'	55.4'
1	160°13.9'	191°28.4'	S 12°40.2'	325°13.2'	14.0'	S 2°36.5'	9.9'	55.4'
2	175°16.4'	206°28.4'	S 12°39.3'	339°46.3'	14.0'	S 2°46.5'	9.9'	55.4'
3	190°18.8'	221°28.4'	S 12°38.5'	354°19.3'	14.1'	S 2°56.4'	9.9'	55.4'
4	205°21.3'	236°28.5'	S 12°37.6'	8°52.4'	14.1'	S 3°06.3'	9.9'	55.3'
5	220°23.7'	251°28.5'	S 12°36.8'	23°25.4'	14.1'	S 3°16.1'	9.8'	55.3'
6	235°26.2'	266°28.5'	S 12°35.9'	37°58.5'	14.1'	S 3°26.0'	9.8'	55.3'
7	250°28.7'	281°28.5'	S 12°35.0'	52°31.7'	14.1'	S 3°35.8'	9.8'	55.3'
8	265°31.1'	296°28.6'	S 12°34.2'	67°04.8'	14.1'	S 3°45.6'	9.8'	55.3'
9	280°33.6'	311°28.6'	S 12°33.3'	81°37.9'	14.2'	S 3°55.4'	9.7'	55.2'
10	295°36.1'	326°28.6'	S 12°32.5'	96°11.1'	14.2'	S 4°05.1'	9.7'	55.2'
11	310°38.5'	341°28.7'	S 12°31.6'	110°44.3'	14.2'	S 4°14.8'	9.7'	55.2'
12	325°41.0'	356°28.7'	S 12°30.7'	125°17.5'	14.2'	S 4°24.5'	9.7'	55.2'
13	340°43.5'	11°28.7'	S 12°29.9'	139°50.7'	14.2'	S 4°34.2'	9.6'	55.1'
14	355°45.9'	26°28.8'	S 12°29.0'	154°23.9'	14.2'	S 4°43.8'	9.6'	55.1'
15	10°48.4'	41°28.8'	S 12°28.1'	168°57.1'	14.2'	S 4°53.4'	9.6'	55.1'
16	25°50.9'	56°28.9'	S 12°27.3'	183°30.4'	14.3'	S 5°03.0'	9.5'	55.1'
17	40°53.3'	71°28.9'	S 12°26.4'	198°03.6'	14.3'	S 5°12.5'	9.5'	55.1'
18	55°55.8'	86°28.9'	S 12°25.6'	212°36.9'	14.3'	S 5°22.0'	9.5'	55.0'
19	70°58.2'	101°29.0'	S 12°24.7'	227°10.2'	14.3'	S 5°31.5'	9.5'	55.0'
20	86°00.7'	116°29.0'	S 12°23.8'	241°43.4'	14.3'	S 5°41.0'	9.4'	55.0'
21	101°03.2'	131°29.0'	S 12°23.0'	256°16.7'	14.3'	S 5°50.4'	9.4'	55.0'
22	116°05.6'	146°29.1'	S 12°22.1'	270°50.0'	14.3'	S 5°59.8'	9.4'	55.0'
23	131°08.1'	161°29.1'	S 12°21.2'	285°23.3'	14.3'	S 6°09.1'	9.3'	54.9'

Thu Feb 16, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 16.2'		SD = 14.9'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	146°10.6'	176°29.1'	S 12°20.4'	299°56.7'	14.3'	S 6°18.5'	9.3'	54.9'
1	161°13.0'	191°29.2'	S 12°19.5'	314°30.0'	14.3'	S 6°27.7'	9.2'	54.9'
2	176°15.5'	206°29.2'	S 12°18.6'	329°03.3'	14.3'	S 6°37.0'	9.2'	54.9'
3	191°18.0'	221°29.3'	S 12°17.8'	343°36.6'	14.3'	S 6°46.2'	9.2'	54.9'
4	206°20.4'	236°29.3'	S 12°16.9'	358°10.0'	14.3'	S 6°55.4'	9.1'	54.8'
5	221°22.9'	251°29.3'	S 12°16.0'	12°43.3'	14.3'	S 7°04.5'	9.1'	54.8'
6	236°25.3'	266°29.4'	S 12°15.2'	27°16.6'	14.3'	S 7°13.6'	9.1'	54.8'
7	251°27.8'	281°29.4'	S 12°14.3'	41°50.0'	14.3'	S 7°22.7'	9.0'	54.8'
8	266°30.3'	296°29.5'	S 12°13.4'	56°23.3'	14.3'	S 7°31.7'	9.0'	54.8'
9	281°32.7'	311°29.5'	S 12°12.5'	70°56.7'	14.3'	S 7°40.7'	9.0'	54.7'
10	296°35.2'	326°29.5'	S 12°11.7'	85°30.0'	14.3'	S 7°49.7'	8.9'	54.7'
11	311°37.7'	341°29.6'	S 12°10.8'	100°03.3'	14.3'	S 7°58.6'	8.9'	54.7'
12	326°40.1'	356°29.6'	S 12°09.9'	114°36.7'	14.3'	S 8°07.5'	8.8'	54.7'
13	341°42.6'	11°29.7'	S 12°09.1'	129°10.0'	14.3'	S 8°16.3'	8.8'	54.7'
14	356°45.1'	26°29.7'	S 12°08.2'	143°43.4'	14.3'	S 8°25.1'	8.7'	54.7'
15	11°47.5'	41°29.7'	S 12°07.3'	158°16.7'	14.3'	S 8°33.8'	8.7'	54.7'
16	26°50.0'	56°29.8'	S 12°06.5'	172°50.0'	14.3'	S 8°42.5'	8.7'	54.6'
17	41°52.5'	71°29.8'	S 12°05.6'	187°23.3'	14.3'	S 8°51.2'	8.6'	54.6'
18	56°54.9'	86°29.9'	S 12°04.7'	201°56.7'	14.3'	S 8°59.8'	8.6'	54.6'
19	71°57.4'	101°29.9'	S 12°03.8'	216°30.0'	14.3'	S 9°08.4'	8.5'	54.6'
20	86°59.8'	116°30.0'	S 12°03.0'	231°03.3'	14.3'	S 9°16.9'	8.5'	54.6'
21	102°02.3'	131°30.0'	S 12°02.1'	245°36.6'	14.3'	S 9°25.4'	8.4'	54.6'
22	117°04.8'	146°30.0'	S 12°01.2'	260°09.9'	14.3'	S 9°33.9'	8.4'	54.5'
23	132°07.2'	161°30.1'	S 12°00.3'	274°43.2'	14.3'	S 9°42.3'	8.4'	54.5'



Fri Feb 17, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 16.2'		SD = 14.8'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	147°09.7'	176°30.1'	S 11°59.5'	289°16.5'	14.3'	S 9°50.6'	8.3'	54.5'
1	162°12.2'	191°30.2'	S 11°58.6'	303°49.7'	14.3'	S 9°58.9'	8.3'	54.5'
2	177°14.6'	206°30.2'	S 11°57.7'	318°23.0'	14.3'	S 10°07.2'	8.2'	54.5'
3	192°17.1'	221°30.3'	S 11°56.8'	332°56.3'	14.2'	S 10°15.4'	8.2'	54.5'
4	207°19.6'	236°30.3'	S 11°56.0'	347°29.5'	14.2'	S 10°23.6'	8.1'	54.5'
5	222°22.0'	251°30.4'	S 11°55.1'	2°02.8'	14.2'	S 10°31.7'	8.1'	54.5'
6	237°24.5'	266°30.4'	S 11°54.2'	16°36.0'	14.2'	S 10°39.7'	8.0'	54.4'
7	252°26.9'	281°30.5'	S 11°53.3'	31°09.2'	14.2'	S 10°47.8'	8.0'	54.4'
8	267°29.4'	296°30.5'	S 11°52.5'	45°42.4'	14.2'	S 10°55.7'	7.9'	54.4'
9	282°31.9'	311°30.5'	S 11°51.6'	60°15.6'	14.2'	S 11°03.6'	7.9'	54.4'
10	297°34.3'	326°30.6'	S 11°50.7'	74°48.8'	14.2'	S 11°11.5'	7.8'	54.4'
11	312°36.8'	341°30.6'	S 11°49.8'	89°21.9'	14.1'	S 11°19.3'	7.8'	54.4'
12	327°39.3'	356°30.7'	S 11°48.9'	103°55.1'	14.1'	S 11°27.1'	7.7'	54.4'
13	342°41.7'	11°30.7'	S 11°48.1'	118°28.2'	14.1'	S 11°34.8'	7.7'	54.4'
14	357°44.2'	26°30.8'	S 11°47.2'	133°01.3'	14.1'	S 11°42.5'	7.6'	54.4'
15	12°46.7'	41°30.8'	S 11°46.3'	147°34.4'	14.1'	S 11°50.1'	7.6'	54.4'
16	27°49.1'	56°30.9'	S 11°45.4'	162°07.5'	14.1'	S 11°57.6'	7.5'	54.3'
17	42°51.6'	71°30.9'	S 11°44.5'	176°40.6'	14.1'	S 12°05.1'	7.4'	54.3'
18	57°54.1'	86°31.0'	S 11°43.7'	191°13.6'	14.0'	S 12°12.6'	7.4'	54.3'
19	72°56.5'	101°31.0'	S 11°42.8'	205°46.7'	14.0'	S 12°20.0'	7.3'	54.3'
20	87°59.0'	116°31.1'	S 11°41.9'	220°19.7'	14.0'	S 12°27.3'	7.3'	54.3'
21	103°01.4'	131°31.1'	S 11°41.0'	234°52.7'	14.0'	S 12°34.6'	7.2'	54.3'
22	118°03.9'	146°31.2'	S 11°40.1'	249°25.7'	14.0'	S 12°41.8'	7.2'	54.3'
23	133°06.4'	161°31.2'	S 11°39.3'	263°58.6'	13.9'	S 12°49.0'	7.1'	54.3'

Sat Feb 18, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 16.2'		SD = 14.8'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	148°08.8'	176°31.3'	S 11°38.4'	278°31.6'	13.9'	S 12°56.1'	7.1'	54.3'
1	163°11.3'	191°31.3'	S 11°37.5'	293°04.5'	13.9'	S 13°03.2'	7.0'	54.3'
2	178°13.8'	206°31.4'	S 11°36.6'	307°37.4'	13.9'	S 13°10.2'	6.9'	54.3'
3	193°16.2'	221°31.4'	S 11°35.7'	322°10.3'	13.9'	S 13°17.1'	6.9'	54.3'
4	208°18.7'	236°31.5'	S 11°34.8'	336°43.1'	13.8'	S 13°24.0'	6.8'	54.3'
5	223°21.2'	251°31.6'	S 11°34.0'	351°16.0'	13.8'	S 13°30.8'	6.8'	54.3'
6	238°23.6'	266°31.6'	S 11°33.1'	5°48.8'	13.8'	S 13°37.6'	6.7'	54.3'
7	253°26.1'	281°31.7'	S 11°32.2'	20°21.6'	13.8'	S 13°44.3'	6.6'	54.3'
8	268°28.6'	296°31.7'	S 11°31.3'	34°54.4'	13.7'	S 13°50.9'	6.6'	54.2'
9	283°31.0'	311°31.8'	S 11°30.4'	49°27.1'	13.7'	S 13°57.5'	6.5'	54.2'
10	298°33.5'	326°31.8'	S 11°29.5'	63°59.8'	13.7'	S 14°04.0'	6.5'	54.2'
11	313°35.9'	341°31.9'	S 11°28.6'	78°32.5'	13.7'	S 14°10.5'	6.4'	54.2'
12	328°38.4'	356°31.9'	S 11°27.8'	93°05.2'	13.7'	S 14°16.9'	6.3'	54.2'
13	343°40.9'	11°32.0'	S 11°26.9'	107°37.9'	13.6'	S 14°23.2'	6.3'	54.2'
14	358°43.3'	26°32.0'	S 11°26.0'	122°10.5'	13.6'	S 14°29.5'	6.2'	54.2'
15	13°45.8'	41°32.1'	S 11°25.1'	136°43.1'	13.6'	S 14°35.7'	6.1'	54.2'
16	28°48.3'	56°32.2'	S 11°24.2'	151°15.7'	13.5'	S 14°41.8'	6.1'	54.2'
17	43°50.7'	71°32.2'	S 11°23.3'	165°48.2'	13.5'	S 14°47.9'	6.0'	54.2'
18	58°53.2'	86°32.3'	S 11°22.4'	180°20.7'	13.5'	S 14°53.9'	6.0'	54.2'
19	73°55.7'	101°32.3'	S 11°21.6'	194°53.2'	13.5'	S 14°59.9'	5.9'	54.2'
20	88°58.1'	116°32.4'	S 11°20.7'	209°25.7'	13.4'	S 15°05.8'	5.8'	54.2'
21	104°00.6'	131°32.4'	S 11°19.8'	223°58.2'	13.4'	S 15°11.6'	5.8'	54.2'
22	119°03.0'	146°32.5'	S 11°18.9'	238°30.6'	13.4'	S 15°17.3'	5.7'	54.2'
23	134°05.5'	161°32.6'	S 11°18.0'	253°03.0'	13.4'	S 15°23.0'	5.6'	54.2'

## Sun Feb 19, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 16.2'		SD = 14.8'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	149°08.0'	176°32.6'	S 11°17.1'	267°35.3'	13.3'	S 15°28.7'	5.6'	54.2'
1	164°10.4'	191°32.7'	S 11°16.2'	282°07.6'	13.3'	S 15°34.2'	5.5'	54.2'
2	179°12.9'	206°32.7'	S 11°15.3'	296°40.0'	13.3'	S 15°39.7'	5.4'	54.2'
3	194°15.4'	221°32.8'	S 11°14.4'	311°12.2'	13.2'	S 15°45.1'	5.3'	54.2'
4	209°17.8'	236°32.9'	S 11°13.5'	325°44.5'	13.2'	S 15°50.5'	5.3'	54.2'
5	224°20.3'	251°32.9'	S 11°12.6'	340°16.7'	13.2'	S 15°55.7'	5.2'	54.2'
6	239°22.8'	266°33.0'	S 11°11.8'	354°48.9'	13.2'	S 16°00.9'	5.1'	54.2'
7	254°25.2'	281°33.0'	S 11°10.9'	9°21.0'	13.1'	S 16°06.1'	5.1'	54.2'
8	269°27.7'	296°33.1'	S 11°10.0'	23°53.2'	13.1'	S 16°11.1'	5.0'	54.2'
9	284°30.2'	311°33.2'	S 11°09.1'	38°25.3'	13.1'	S 16°16.1'	4.9'	54.2'
10	299°32.6'	326°33.2'	S 11°08.2'	52°57.3'	13.0'	S 16°21.1'	4.9'	54.3'
11	314°35.1'	341°33.3'	S 11°07.3'	67°29.4'	13.0'	S 16°25.9'	4.8'	54.3'
12	329°37.5'	356°33.3'	S 11°06.4'	82°01.4'	13.0'	S 16°30.7'	4.7'	54.3'
13	344°40.0'	11°33.4'	S 11°05.5'	96°33.3'	12.9'	S 16°35.4'	4.6'	54.3'
14	359°42.5'	26°33.5'	S 11°04.6'	111°05.3'	12.9'	S 16°40.0'	4.6'	54.3'
15	14°44.9'	41°33.5'	S 11°03.7'	125°37.2'	12.9'	S 16°44.6'	4.5'	54.3'
16	29°47.4'	56°33.6'	S 11°02.8'	140°09.1'	12.9'	S 16°49.1'	4.4'	54.3'
17	44°49.9'	71°33.7'	S 11°01.9'	154°40.9'	12.8'	S 16°53.5'	4.3'	54.3'
18	59°52.3'	86°33.7'	S 11°01.0'	169°12.7'	12.8'	S 16°57.8'	4.3'	54.3'
19	74°54.8'	101°33.8'	S 11°00.1'	183°44.5'	12.8'	S 17°02.1'	4.2'	54.3'
20	89°57.3'	116°33.9'	S 10°59.2'	198°16.3'	12.7'	S 17°06.3'	4.1'	54.3'
21	104°59.7'	131°33.9'	S 10°58.3'	212°48.0'	12.7'	S 17°10.4'	4.0'	54.3'
22	120°02.2'	146°34.0'	S 10°57.4'	227°19.7'	12.7'	S 17°14.4'	4.0'	54.3'
23	135°04.7'	161°34.0'	S 10°56.6'	241°51.4'	12.6'	S 17°18.4'	3.9'	54.3'

## Mon Feb 20, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 16.2'		SD = 14.9'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	150°07.1'	176°34.1'	S 10°55.7'	256°23.0'	12.6'	S 17°22.3'	3.8'	54.3'
1	165°09.6'	191°34.2'	S 10°54.8'	270°54.6'	12.6'	S 17°26.1'	3.7'	54.3'
2	180°12.0'	206°34.2'	S 10°53.9'	285°26.2'	12.5'	S 17°29.8'	3.6'	54.4'
3	195°14.5'	221°34.3'	S 10°53.0'	299°57.7'	12.5'	S 17°33.4'	3.6'	54.4'
4	210°17.0'	236°34.4'	S 10°52.1'	314°29.2'	12.5'	S 17°37.0'	3.5'	54.4'
5	225°19.4'	251°34.4'	S 10°51.2'	329°00.7'	12.4'	S 17°40.5'	3.4'	54.4'
6	240°21.9'	266°34.5'	S 10°50.3'	343°32.1'	12.4'	S 17°43.9'	3.3'	54.4'
7	255°24.4'	281°34.6'	S 10°49.4'	358°03.5'	12.4'	S 17°47.2'	3.2'	54.4'
8	270°26.8'	296°34.6'	S 10°48.5'	12°34.9'	12.3'	S 17°50.5'	3.2'	54.4'
9	285°29.3'	311°34.7'	S 10°47.6'	27°06.2'	12.3'	S 17°53.6'	3.1'	54.4'
10	300°31.8'	326°34.8'	S 10°46.7'	41°37.5'	12.3'	S 17°56.7'	3.0'	54.4'
11	315°34.2'	341°34.8'	S 10°45.8'	56°08.8'	12.2'	S 17°59.7'	2.9'	54.5'
12	330°36.7'	356°34.9'	S 10°44.9'	70°40.0'	12.2'	S 18°02.6'	2.8'	54.5'
13	345°39.2'	11°35.0'	S 10°44.0'	85°11.2'	12.2'	S 18°05.5'	2.8'	54.5'
14	0°41.6'	26°35.1'	S 10°43.1'	99°42.4'	12.1'	S 18°08.2'	2.7'	54.5'
15	15°44.1'	41°35.1'	S 10°42.2'	114°13.6'	12.1'	S 18°10.9'	2.6'	54.5'
16	30°46.5'	56°35.2'	S 10°41.3'	128°44.7'	12.1'	S 18°13.5'	2.5'	54.5'
17	45°49.0'	71°35.3'	S 10°40.4'	143°15.8'	12.1'	S 18°16.0'	2.4'	54.5'
18	60°51.5'	86°35.3'	S 10°39.5'	157°46.8'	12.0'	S 18°18.4'	2.3'	54.5'
19	75°53.9'	101°35.4'	S 10°38.5'	172°17.8'	12.0'	S 18°20.8'	2.3'	54.6'
20	90°56.4'	116°35.5'	S 10°37.6'	186°48.8'	12.0'	S 18°23.0'	2.2'	54.6'
21	105°58.9'	131°35.5'	S 10°36.7'	201°19.8'	11.9'	S 18°25.2'	2.1'	54.6'
22	121°01.3'	146°35.6'	S 10°35.8'	215°50.7'	11.9'	S 18°27.3'	2.0'	54.6'
23	136°03.8'	161°35.7'	S 10°34.9'	230°21.6'	11.9'	S 18°29.3'	1.9'	54.6'

Tue Feb 21, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 16.2'		SD = 15.0'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	151°06.3'	176°35.8'	S 10°34.0'	244°52.4'	11.8'	S 18°31.2'	1.8'	54.6'
1	166°08.7'	191°35.8'	S 10°33.1'	259°23.3'	11.8'	S 18°33.0'	1.7'	54.6'
2	181°11.2'	206°35.9'	S 10°32.2'	273°54.1'	11.8'	S 18°34.8'	1.7'	54.7'
3	196°13.6'	221°36.0'	S 10°31.3'	288°24.9'	11.7'	S 18°36.4'	1.6'	54.7'
4	211°16.1'	236°36.1'	S 10°30.4'	302°55.6'	11.7'	S 18°38.0'	1.5'	54.7'
5	226°18.6'	251°36.1'	S 10°29.5'	317°26.3'	11.7'	S 18°39.5'	1.4'	54.7'
6	241°21.0'	266°36.2'	S 10°28.6'	331°57.0'	11.6'	S 18°40.9'	1.3'	54.7'
7	256°23.5'	281°36.3'	S 10°27.7'	346°27.6'	11.6'	S 18°42.2'	1.2'	54.7'
8	271°26.0'	296°36.3'	S 10°26.8'	0°58.2'	11.6'	S 18°43.4'	1.1'	54.8'
9	286°28.4'	311°36.4'	S 10°25.9'	15°28.8'	11.6'	S 18°44.5'	1.0'	54.8'
10	301°30.9'	326°36.5'	S 10°25.0'	29°59.4'	11.5'	S 18°45.5'	0.9'	54.8'
11	316°33.4'	341°36.6'	S 10°24.1'	44°29.9'	11.5'	S 18°46.5'	0.9'	54.8'
12	331°35.8'	356°36.6'	S 10°23.2'	59°00.4'	11.5'	S 18°47.3'	0.8'	54.8'
13	346°38.3'	11°36.7'	S 10°22.2'	73°30.9'	11.4'	S 18°48.1'	0.7'	54.8'
14	1°40.8'	26°36.8'	S 10°21.3'	88°01.3'	11.4'	S 18°48.8'	0.6'	54.9'
15	16°43.2'	41°36.9'	S 10°20.4'	102°31.8'	11.4'	S 18°49.4'	0.5'	54.9'
16	31°45.7'	56°36.9'	S 10°19.5'	117°02.2'	11.4'	S 18°49.9'	0.4'	54.9'
17	46°48.1'	71°37.0'	S 10°18.6'	131°32.5'	11.3'	S 18°50.3'	0.3'	54.9'
18	61°50.6'	86°37.1'	S 10°17.7'	146°02.9'	11.3'	S 18°50.6'	0.2'	54.9'
19	76°53.1'	101°37.2'	S 10°16.8'	160°33.2'	11.3'	S 18°50.8'	0.1'	55.0'
20	91°55.5'	116°37.3'	S 10°15.9'	175°03.4'	11.3'	S 18°50.9'	0.0'	55.0'
21	106°58.0'	131°37.3'	S 10°15.0'	189°33.7'	11.2'	S 18°50.9'	0.1'	55.0'
22	122°00.5'	146°37.4'	S 10°14.1'	204°03.9'	11.2'	S 18°50.9'	0.2'	55.0'
23	137°02.9'	161°37.5'	S 10°13.2'	218°34.1'	11.2'	S 18°50.7'	0.2'	55.0'

Wed Feb 22, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 16.2'		SD = 15.1'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	152°05.4'	176°37.6'	S 10°12.2'	233°04.3'	11.2'	S 18°50.5'	0.3'	55.1'
1	167°07.9'	191°37.6'	S 10°11.3'	247°34.5'	11.1'	S 18°50.2'	0.4'	55.1'
2	182°10.3'	206°37.7'	S 10°10.4'	262°04.6'	11.1'	S 18°49.7'	0.5'	55.1'
3	197°12.8'	221°37.8'	S 10°09.5'	276°34.7'	11.1'	S 18°49.2'	0.6'	55.1'
4	212°15.3'	236°37.9'	S 10°08.6'	291°04.8'	11.1'	S 18°48.6'	0.7'	55.1'
5	227°17.7'	251°38.0'	S 10°07.7'	305°34.8'	11.0'	S 18°47.9'	0.8'	55.2'
6	242°20.2'	266°38.0'	S 10°06.8'	320°04.8'	11.0'	S 18°47.1'	0.9'	55.2'
7	257°22.6'	281°38.1'	S 10°05.9'	334°34.9'	11.0'	S 18°46.2'	1.0'	55.2'
8	272°25.1'	296°38.2'	S 10°04.9'	349°04.8'	11.0'	S 18°45.2'	1.1'	55.2'
9	287°27.6'	311°38.3'	S 10°04.0'	3°34.8'	10.9'	S 18°44.1'	1.2'	55.3'
10	302°30.0'	326°38.4'	S 10°03.1'	18°04.7'	10.9'	S 18°42.9'	1.3'	55.3'
11	317°32.5'	341°38.4'	S 10°02.2'	32°34.7'	10.9'	S 18°41.6'	1.4'	55.3'
12	332°35.0'	356°38.5'	S 10°01.3'	47°04.5'	10.9'	S 18°40.3'	1.5'	55.3'
13	347°37.4'	11°38.6'	S 10°00.4'	61°34.4'	10.9'	S 18°38.8'	1.6'	55.4'
14	2°39.9'	26°38.7'	S 9°59.5'	76°04.3'	10.8'	S 18°37.2'	1.7'	55.4'
15	17°42.4'	41°38.8'	S 9°58.5'	90°34.1'	10.8'	S 18°35.6'	1.8'	55.4'
16	32°44.8'	56°38.9'	S 9°57.6'	105°03.9'	10.8'	S 18°33.8'	1.8'	55.4'
17	47°47.3'	71°38.9'	S 9°56.7'	119°33.7'	10.8'	S 18°32.0'	1.9'	55.4'
18	62°49.7'	86°39.0'	S 9°55.8'	134°03.5'	10.8'	S 18°30.1'	2.0'	55.5'
19	77°52.2'	101°39.1'	S 9°54.9'	148°33.3'	10.7'	S 18°28.0'	2.1'	55.5'
20	92°54.7'	116°39.2'	S 9°54.0'	163°03.0'	10.7'	S 18°25.9'	2.2'	55.5'
21	107°57.1'	131°39.3'	S 9°53.1'	177°32.7'	10.7'	S 18°23.7'	2.3'	55.5'
22	122°59.6'	146°39.4'	S 9°52.1'	192°02.4'	10.7'	S 18°21.3'	2.4'	55.6'
23	138°02.1'	161°39.4'	S 9°51.2'	206°32.1'	10.7'	S 18°18.9'	2.5'	55.6'

Thu Feb 23, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 16.2'		SD = 15.3'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	153°04.5'	176°39.5'	S 9°50.3'	221°01.8'	10.7'	S 18°16.4'	2.6'	55.6'
1	168°07.0'	191°39.6'	S 9°49.4'	235°31.4'	10.6'	S 18°13.8'	2.7'	55.6'
2	183°09.5'	206°39.7'	S 9°48.5'	250°01.1'	10.6'	S 18°11.1'	2.8'	55.7'
3	198°11.9'	221°39.8'	S 9°47.5'	264°30.7'	10.6'	S 18°08.3'	2.9'	55.7'
4	213°14.4'	236°39.9'	S 9°46.6'	279°00.3'	10.6'	S 18°05.4'	3.0'	55.7'
5	228°16.9'	251°40.0'	S 9°45.7'	293°29.9'	10.6'	S 18°02.4'	3.1'	55.8'
6	243°19.3'	266°40.0'	S 9°44.8'	307°59.4'	10.6'	S 17°59.3'	3.2'	55.8'
7	258°21.8'	281°40.1'	S 9°43.9'	322°29.0'	10.5'	S 17°56.1'	3.3'	55.8'
8	273°24.2'	296°40.2'	S 9°43.0'	336°58.5'	10.5'	S 17°52.8'	3.4'	55.8'
9	288°26.7'	311°40.3'	S 9°42.0'	351°28.1'	10.5'	S 17°49.4'	3.5'	55.9'
10	303°29.2'	326°40.4'	S 9°41.1'	5°57.6'	10.5'	S 17°46.0'	3.6'	55.9'
11	318°31.6'	341°40.5'	S 9°40.2'	20°27.1'	10.5'	S 17°42.4'	3.7'	55.9'
12	333°34.1'	356°40.6'	S 9°39.3'	34°56.6'	10.5'	S 17°38.7'	3.8'	55.9'
13	348°36.6'	11°40.7'	S 9°38.3'	49°26.1'	10.5'	S 17°35.0'	3.9'	56.0'
14	3°39.0'	26°40.7'	S 9°37.4'	63°55.6'	10.5'	S 17°31.1'	3.9'	56.0'
15	18°41.5'	41°40.8'	S 9°36.5'	78°25.0'	10.5'	S 17°27.2'	4.0'	56.0'
16	33°44.0'	56°40.9'	S 9°35.6'	92°54.5'	10.4'	S 17°23.1'	4.1'	56.0'
17	48°46.4'	71°41.0'	S 9°34.7'	107°23.9'	10.4'	S 17°19.0'	4.2'	56.1'
18	63°48.9'	86°41.1'	S 9°33.7'	121°53.4'	10.4'	S 17°14.8'	4.3'	56.1'
19	78°51.4'	101°41.2'	S 9°32.8'	136°22.8'	10.4'	S 17°10.4'	4.4'	56.1'
20	93°53.8'	116°41.3'	S 9°31.9'	150°52.2'	10.4'	S 17°06.0'	4.5'	56.2'
21	108°56.3'	131°41.4'	S 9°31.0'	165°21.6'	10.4'	S 17°01.5'	4.6'	56.2'
22	123°58.7'	146°41.5'	S 9°30.1'	179°51.0'	10.4'	S 16°56.9'	4.7'	56.2'
23	139°01.2'	161°41.5'	S 9°29.1'	194°20.4'	10.4'	S 16°52.2'	4.8'	56.2'

Fri Feb 24, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 16.2'		SD = 15.4'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	154°03.7'	176°41.6'	S 9°28.2'	208°49.8'	10.4'	S 16°47.4'	4.9'	56.3'
1	169°06.1'	191°41.7'	S 9°27.3'	223°19.1'	10.4'	S 16°42.5'	5.0'	56.3'
2	184°08.6'	206°41.8'	S 9°26.4'	237°48.5'	10.4'	S 16°37.5'	5.1'	56.3'
3	199°11.1'	221°41.9'	S 9°25.4'	252°17.9'	10.4'	S 16°32.4'	5.2'	56.4'
4	214°13.5'	236°42.0'	S 9°24.5'	266°47.2'	10.3'	S 16°27.3'	5.3'	56.4'
5	229°16.0'	251°42.1'	S 9°23.6'	281°16.6'	10.3'	S 16°22.0'	5.4'	56.4'
6	244°18.5'	266°42.2'	S 9°22.7'	295°45.9'	10.3'	S 16°16.7'	5.4'	56.4'
7	259°20.9'	281°42.3'	S 9°21.7'	310°15.2'	10.3'	S 16°11.2'	5.5'	56.5'
8	274°23.4'	296°42.4'	S 9°20.8'	324°44.6'	10.3'	S 16°05.7'	5.6'	56.5'
9	289°25.9'	311°42.5'	S 9°19.9'	339°13.9'	10.3'	S 16°00.0'	5.7'	56.5'
10	304°28.3'	326°42.6'	S 9°19.0'	353°43.2'	10.3'	S 15°54.3'	5.8'	56.5'
11	319°30.8'	341°42.7'	S 9°18.0'	8°12.5'	10.3'	S 15°48.5'	5.9'	56.6'
12	334°33.2'	356°42.7'	S 9°17.1'	22°41.9'	10.3'	S 15°42.6'	6.0'	56.6'
13	349°35.7'	11°42.8'	S 9°16.2'	37°11.2'	10.3'	S 15°36.6'	6.1'	56.6'
14	4°38.2'	26°42.9'	S 9°15.2'	51°40.5'	10.3'	S 15°30.6'	6.2'	56.7'
15	19°40.6'	41°43.0'	S 9°14.3'	66°09.8'	10.3'	S 15°24.4'	6.3'	56.7'
16	34°43.1'	56°43.1'	S 9°13.4'	80°39.1'	10.3'	S 15°18.1'	6.3'	56.7'
17	49°45.6'	71°43.2'	S 9°12.5'	95°08.4'	10.3'	S 15°11.8'	6.4'	56.7'
18	64°48.0'	86°43.3'	S 9°11.5'	109°37.7'	10.3'	S 15°05.4'	6.5'	56.8'
19	79°50.5'	101°43.4'	S 9°10.6'	124°07.0'	10.3'	S 14°58.8'	6.6'	56.8'
20	94°53.0'	116°43.5'	S 9°09.7'	138°36.3'	10.3'	S 14°52.2'	6.7'	56.8'
21	109°55.4'	131°43.6'	S 9°08.8'	153°05.6'	10.3'	S 14°45.6'	6.8'	56.9'
22	124°57.9'	146°43.7'	S 9°07.8'	167°34.9'	10.3'	S 14°38.8'	6.9'	56.9'
23	140°00.3'	161°43.8'	S 9°06.9'	182°04.2'	10.3'	S 14°31.9'	6.9'	56.9'

Sat Feb 25, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 16.2'		SD = 15.6'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	155°02.8'	176°43.9'	S 9°06.0'	196°33.5'	10.3'	S 14°25.0'	7.0'	56.9'
1	170°05.3'	191°44.0'	S 9°05.0'	211°02.8'	10.3'	S 14°17.9'	7.1'	57.0'
2	185°07.7'	206°44.1'	S 9°04.1'	225°32.1'	10.3'	S 14°10.8'	7.2'	57.0'
3	200°10.2'	221°44.2'	S 9°03.2'	240°01.4'	10.3'	S 14°03.6'	7.3'	57.0'
4	215°12.7'	236°44.3'	S 9°02.2'	254°30.7'	10.3'	S 13°56.3'	7.4'	57.1'
5	230°15.1'	251°44.4'	S 9°01.3'	268°60.0'	10.3'	S 13°49.0'	7.4'	57.1'
6	245°17.6'	266°44.5'	S 9°00.4'	283°29.3'	10.3'	S 13°41.5'	7.5'	57.1'
7	260°20.1'	281°44.6'	S 8°59.5'	297°58.6'	10.3'	S 13°34.0'	7.6'	57.1'
8	275°22.5'	296°44.7'	S 8°58.5'	312°27.8'	10.3'	S 13°26.4'	7.7'	57.2'
9	290°25.0'	311°44.8'	S 8°57.6'	326°57.1'	10.3'	S 13°18.7'	7.8'	57.2'
10	305°27.5'	326°44.9'	S 8°56.7'	341°26.4'	10.3'	S 13°10.9'	7.8'	57.2'
11	320°29.9'	341°45.0'	S 8°55.7'	355°55.7'	10.3'	S 13°03.1'	7.9'	57.3'
12	335°32.4'	356°45.1'	S 8°54.8'	10°25.1'	10.3'	S 12°55.1'	8.0'	57.3'
13	350°34.8'	11°45.2'	S 8°53.9'	24°54.4'	10.3'	S 12°47.1'	8.1'	57.3'
14	5°37.3'	26°45.3'	S 8°52.9'	39°23.7'	10.3'	S 12°39.1'	8.2'	57.3'
15	20°39.8'	41°45.4'	S 8°52.0'	53°53.0'	10.3'	S 12°30.9'	8.2'	57.4'
16	35°42.2'	56°45.5'	S 8°51.1'	68°22.3'	10.3'	S 12°22.7'	8.3'	57.4'
17	50°44.7'	71°45.6'	S 8°50.1'	82°51.6'	10.3'	S 12°14.4'	8.4'	57.4'
18	65°47.2'	86°45.7'	S 8°49.2'	97°20.9'	10.3'	S 12°06.0'	8.5'	57.5'
19	80°49.6'	101°45.8'	S 8°48.3'	111°50.2'	10.3'	S 11°57.5'	8.5'	57.5'
20	95°52.1'	116°45.9'	S 8°47.3'	126°19.5'	10.3'	S 11°49.0'	8.6'	57.5'
21	110°54.6'	131°46.0'	S 8°46.4'	140°48.9'	10.3'	S 11°40.4'	8.7'	57.5'
22	125°57.0'	146°46.1'	S 8°45.5'	155°18.2'	10.3'	S 11°31.7'	8.7'	57.6'
23	140°59.5'	161°46.2'	S 8°44.5'	169°47.5'	10.3'	S 11°23.0'	8.8'	57.6'

Sun Feb 26, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 16.2'		SD = 15.8'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	156°01.9'	176°46.3'	S 8°43.6'	184°16.8'	10.3'	S 11°14.1'	8.9'	57.6'
1	171°04.4'	191°46.4'	S 8°42.7'	198°46.2'	10.3'	S 11°05.3'	9.0'	57.6'
2	186°06.9'	206°46.5'	S 8°41.7'	213°15.5'	10.3'	S 10°56.3'	9.0'	57.7'
3	201°09.3'	221°46.6'	S 8°40.8'	227°44.8'	10.3'	S 10°47.3'	9.1'	57.7'
4	216°11.8'	236°46.7'	S 8°39.9'	242°14.2'	10.3'	S 10°38.2'	9.2'	57.7'
5	231°14.3'	251°46.8'	S 8°38.9'	256°43.5'	10.3'	S 10°29.0'	9.2'	57.7'
6	246°16.7'	266°46.9'	S 8°38.0'	271°12.8'	10.3'	S 10°19.8'	9.3'	57.8'
7	261°19.2'	281°47.0'	S 8°37.0'	285°42.2'	10.3'	S 10°10.5'	9.4'	57.8'
8	276°21.7'	296°47.1'	S 8°36.1'	300°11.5'	10.3'	S 10°01.2'	9.4'	57.8'
9	291°24.1'	311°47.2'	S 8°35.2'	314°40.9'	10.3'	S 9°51.8'	9.5'	57.9'
10	306°26.6'	326°47.3'	S 8°34.2'	329°10.2'	10.3'	S 9°42.3'	9.5'	57.9'
11	321°29.1'	341°47.4'	S 8°33.3'	343°39.6'	10.4'	S 9°32.7'	9.6'	57.9'
12	336°31.5'	356°47.5'	S 8°32.4'	358°08.9'	10.4'	S 9°23.1'	9.7'	57.9'
13	351°34.0'	11°47.6'	S 8°31.4'	12°38.3'	10.4'	S 9°13.5'	9.7'	58.0'
14	6°36.4'	26°47.8'	S 8°30.5'	27°07.6'	10.4'	S 9°03.8'	9.8'	58.0'
15	21°38.9'	41°47.9'	S 8°29.5'	41°37.0'	10.4'	S 8°54.0'	9.8'	58.0'
16	36°41.4'	56°48.0'	S 8°28.6'	56°06.3'	10.4'	S 8°44.1'	9.9'	58.0'
17	51°43.8'	71°48.1'	S 8°27.7'	70°35.7'	10.4'	S 8°34.3'	9.9'	58.1'
18	66°46.3'	86°48.2'	S 8°26.7'	85°05.0'	10.4'	S 8°24.3'	10.0'	58.1'
19	81°48.8'	101°48.3'	S 8°25.8'	99°34.4'	10.4'	S 8°14.3'	10.1'	58.1'
20	96°51.2'	116°48.4'	S 8°24.8'	114°03.8'	10.4'	S 8°04.3'	10.1'	58.1'
21	111°53.7'	131°48.5'	S 8°23.9'	128°33.1'	10.4'	S 7°54.2'	10.2'	58.1'
22	126°56.2'	146°48.6'	S 8°23.0'	143°02.5'	10.4'	S 7°44.0'	10.2'	58.2'
23	141°58.6'	161°48.7'	S 8°22.0'	157°31.8'	10.4'	S 7°33.8'	10.3'	58.2'

Mon Feb 27, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 16.1'		SD = 15.9'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	157°01.1'	176°48.8'	S 8°21.1'	172°01.2'	10.4'	S 7°23.5'	10.3'	58.2'
1	172°03.6'	191°48.9'	S 8°20.1'	186°30.6'	10.4'	S 7°13.2'	10.4'	58.2'
2	187°06.0'	206°49.0'	S 8°19.2'	200°59.9'	10.4'	S 7°02.9'	10.4'	58.3'
3	202°08.5'	221°49.2'	S 8°18.3'	215°29.3'	10.4'	S 6°52.5'	10.4'	58.3'
4	217°10.9'	236°49.3'	S 8°17.3'	229°58.6'	10.4'	S 6°42.0'	10.5'	58.3'
5	232°13.4'	251°49.4'	S 8°16.4'	244°28.0'	10.4'	S 6°31.5'	10.5'	58.3'
6	247°15.9'	266°49.5'	S 8°15.4'	258°57.3'	10.4'	S 6°21.0'	10.6'	58.4'
7	262°18.3'	281°49.6'	S 8°14.5'	273°26.7'	10.3'	S 6°10.4'	10.6'	58.4'
8	277°20.8'	296°49.7'	S 8°13.6'	287°56.0'	10.3'	S 5°59.8'	10.7'	58.4'
9	292°23.3'	311°49.8'	S 8°12.6'	302°25.4'	10.3'	S 5°49.1'	10.7'	58.4'
10	307°25.7'	326°49.9'	S 8°11.7'	316°54.7'	10.3'	S 5°38.4'	10.7'	58.4'
11	322°28.2'	341°50.0'	S 8°10.7'	331°24.1'	10.3'	S 5°27.7'	10.8'	58.5'
12	337°30.7'	356°50.2'	S 8°09.8'	345°53.4'	10.3'	S 5°16.9'	10.8'	58.5'
13	352°33.1'	11°50.3'	S 8°08.8'	0°22.7'	10.3'	S 5°06.1'	10.9'	58.5'
14	7°35.6'	26°50.4'	S 8°07.9'	14°52.1'	10.3'	S 4°55.2'	10.9'	58.5'
15	22°38.0'	41°50.5'	S 8°07.0'	29°21.4'	10.3'	S 4°44.3'	10.9'	58.5'
16	37°40.5'	56°50.6'	S 8°06.0'	43°50.7'	10.3'	S 4°33.4'	11.0'	58.6'
17	52°43.0'	71°50.7'	S 8°05.1'	58°20.0'	10.3'	S 4°22.5'	11.0'	58.6'
18	67°45.4'	86°50.8'	S 8°04.1'	72°49.3'	10.3'	S 4°11.5'	11.0'	58.6'
19	82°47.9'	101°50.9'	S 8°03.2'	87°18.6'	10.3'	S 4°00.5'	11.0'	58.6'
20	97°50.4'	116°51.0'	S 8°02.2'	101°47.9'	10.3'	S 3°49.4'	11.1'	58.6'
21	112°52.8'	131°51.2'	S 8°01.3'	116°17.2'	10.3'	S 3°38.4'	11.1'	58.7'
22	127°55.3'	146°51.3'	S 8°00.4'	130°46.5'	10.3'	S 3°27.3'	11.1'	58.7'
23	142°57.8'	161°51.4'	S 7°59.4'	145°15.8'	10.3'	S 3°16.1'	11.1'	58.7'

Tue Feb 28, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 16.1'		SD = 16.1'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	158°00.2'	176°51.5'	S 7°58.5'	159°45.1'	10.3'	S 3°05.0'	11.2'	58.7'
1	173°02.7'	191°51.6'	S 7°57.5'	174°14.3'	10.3'	S 2°53.8'	11.2'	58.7'
2	188°05.2'	206°51.7'	S 7°56.6'	188°43.6'	10.2'	S 2°42.6'	11.2'	58.8'
3	203°07.6'	221°51.8'	S 7°55.6'	203°12.8'	10.2'	S 2°31.4'	11.2'	58.8'
4	218°10.1'	236°52.0'	S 7°54.7'	217°42.1'	10.2'	S 2°20.2'	11.3'	58.8'
5	233°12.5'	251°52.1'	S 7°53.7'	232°11.3'	10.2'	S 2°08.9'	11.3'	58.8'
6	248°15.0'	266°52.2'	S 7°52.8'	246°40.5'	10.2'	S 1°57.6'	11.3'	58.8'
7	263°17.5'	281°52.3'	S 7°51.8'	261°09.7'	10.2'	S 1°46.3'	11.3'	58.8'
8	278°19.9'	296°52.4'	S 7°50.9'	275°38.9'	10.2'	S 1°35.0'	11.3'	58.9'
9	293°22.4'	311°52.5'	S 7°49.9'	290°08.1'	10.2'	S 1°23.7'	11.3'	58.9'
10	308°24.9'	326°52.7'	S 7°49.0'	304°37.3'	10.2'	S 1°12.4'	11.3'	58.9'
11	323°27.3'	341°52.8'	S 7°48.1'	319°06.5'	10.2'	S 1°01.0'	11.4'	58.9'
12	338°29.8'	356°52.9'	S 7°47.1'	333°35.6'	10.1'	S 0°49.7'	11.4'	58.9'
13	353°32.3'	11°53.0'	S 7°46.2'	348°04.8'	10.1'	S 0°38.3'	11.4'	58.9'
14	8°34.7'	26°53.1'	S 7°45.2'	2°33.9'	10.1'	S 0°26.9'	11.4'	58.9'
15	23°37.2'	41°53.2'	S 7°44.3'	17°03.0'	10.1'	S 0°15.5'	11.4'	59.0'
16	38°39.6'	56°53.4'	S 7°43.3'	31°32.1'	10.1'	S 0°04.1'	11.4'	59.0'
17	53°42.1'	71°53.5'	S 7°42.4'	46°01.2'	10.1'	N 0°07.3'	11.4'	59.0'
18	68°44.6'	86°53.6'	S 7°41.4'	60°30.3'	10.1'	N 0°18.7'	11.4'	59.0'
19	83°47.0'	101°53.7'	S 7°40.5'	74°59.3'	10.0'	N 0°30.1'	11.4'	59.0'
20	98°49.5'	116°53.8'	S 7°39.5'	89°28.4'	10.0'	N 0°41.5'	11.4'	59.0'
21	113°52.0'	131°54.0'	S 7°38.6'	103°57.4'	10.0'	N 0°52.9'	11.4'	59.0'
22	128°54.4'	146°54.1'	S 7°37.6'	118°26.4'	10.0'	N 1°04.3'	11.4'	59.1'
23	143°56.9'	161°54.2'	S 7°36.7'	132°55.4'	10.0'	N 1°15.7'	11.4'	59.1'