

Thu Feb 1, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.7' SD = 16.2'		SD = 16.5'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	131°09.1'	176°37.6'	S 17°10.4'	350°26.4'	5.7'	N 15°39.9'	8.2'	60.7'
1	146°11.6'	191°37.5'	S 17°09.7'	4°51.0'	5.7'	N 15°31.7'	8.3'	60.6'
2	161°14.0'	206°37.4'	S 17°09.0'	19°15.8'	5.8'	N 15°23.3'	8.4'	60.6'
3	176°16.5'	221°37.3'	S 17°08.3'	33°40.6'	5.9'	N 15°14.9'	8.5'	60.6'
4	191°19.0'	236°37.2'	S 17°07.5'	48°05.5'	6.0'	N 15°06.4'	8.6'	60.6'
5	206°21.4'	251°37.2'	S 17°06.8'	62°30.5'	6.1'	N 14°57.8'	8.7'	60.6'
6	221°23.9'	266°37.1'	S 17°06.1'	76°55.5'	6.1'	N 14°49.1'	8.8'	60.5'
7	236°26.3'	281°37.0'	S 17°05.4'	91°20.6'	6.2'	N 14°40.3'	8.9'	60.5'
8	251°28.8'	296°36.9'	S 17°04.7'	105°45.9'	6.3'	N 14°31.4'	9.0'	60.5'
9	266°31.3'	311°36.8'	S 17°04.0'	120°11.1'	6.4'	N 14°22.4'	9.1'	60.5'
10	281°33.7'	326°36.7'	S 17°03.3'	134°36.5'	6.5'	N 14°13.3'	9.2'	60.4'
11	296°36.2'	341°36.7'	S 17°02.6'	149°02.0'	6.5'	N 14°04.1'	9.3'	60.4'
12	311°38.7'	356°36.6'	S 17°01.9'	163°27.5'	6.6'	N 13°54.9'	9.3'	60.4'
13	326°41.1'	11°36.5'	S 17°01.1'	177°53.1'	6.7'	N 13°45.5'	9.4'	60.4'
14	341°43.6'	26°36.4'	S 17°00.4'	192°18.8'	6.8'	N 13°36.1'	9.5'	60.3'
15	356°46.1'	41°36.3'	S 16°59.7'	206°44.6'	6.9'	N 13°26.6'	9.6'	60.3'
16	11°48.5'	56°36.3'	S 16°59.0'	221°10.5'	6.9'	N 13°17.0'	9.7'	60.3'
17	26°51.0'	71°36.2'	S 16°58.3'	235°36.4'	7.0'	N 13°07.4'	9.7'	60.3'
18	41°53.4'	86°36.1'	S 16°57.6'	250°02.4'	7.1'	N 12°57.7'	9.8'	60.2'
19	56°55.9'	101°36.0'	S 16°56.8'	264°28.5'	7.2'	N 12°47.8'	9.9'	60.2'
20	71°58.4'	116°35.9'	S 16°56.1'	278°54.7'	7.3'	N 12°38.0'	10.0'	60.2'
21	87°00.8'	131°35.9'	S 16°55.4'	293°21.0'	7.4'	N 12°28.0'	10.0'	60.1'
22	102°03.3'	146°35.8'	S 16°54.7'	307°47.4'	7.4'	N 12°18.0'	10.1'	60.1'
23	117°05.8'	161°35.7'	S 16°54.0'	322°13.8'	7.5'	N 12°07.9'	10.2'	60.1'

Fri Feb 2, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.7' SD = 16.2'		SD = 16.3'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	132°08.2'	176°35.6'	S 16°53.2'	336°40.3'	7.6'	N 11°57.7'	10.2'	60.1'
1	147°10.7'	191°35.6'	S 16°52.5'	351°06.9'	7.7'	N 11°47.5'	10.3'	60.0'
2	162°13.2'	206°35.5'	S 16°51.8'	5°33.6'	7.8'	N 11°37.2'	10.3'	60.0'
3	177°15.6'	221°35.4'	S 16°51.1'	20°00.4'	7.9'	N 11°26.9'	10.4'	60.0'
4	192°18.1'	236°35.3'	S 16°50.4'	34°27.3'	7.9'	N 11°16.5'	10.5'	59.9'
5	207°20.6'	251°35.3'	S 16°49.6'	48°54.2'	8.0'	N 11°06.0'	10.5'	59.9'
6	222°23.0'	266°35.2'	S 16°48.9'	63°21.2'	8.1'	N 10°55.5'	10.6'	59.9'
7	237°25.5'	281°35.1'	S 16°48.2'	77°48.3'	8.2'	N 10°44.9'	10.6'	59.8'
8	252°27.9'	296°35.0'	S 16°47.5'	92°15.5'	8.3'	N 10°34.3'	10.7'	59.8'
9	267°30.4'	311°35.0'	S 16°46.7'	106°42.8'	8.3'	N 10°23.6'	10.7'	59.8'
10	282°32.9'	326°34.9'	S 16°46.0'	121°10.1'	8.4'	N 10°12.8'	10.8'	59.7'
11	297°35.3'	341°34.8'	S 16°45.3'	135°37.6'	8.5'	N 10°02.1'	10.8'	59.7'
12	312°37.8'	356°34.7'	S 16°44.6'	150°05.1'	8.6'	N 9°51.2'	10.9'	59.7'
13	327°40.3'	11°34.7'	S 16°43.8'	164°32.6'	8.7'	N 9°40.3'	10.9'	59.6'
14	342°42.7'	26°34.6'	S 16°43.1'	179°00.3'	8.7'	N 9°29.4'	11.0'	59.6'
15	357°45.2'	41°34.5'	S 16°42.4'	193°28.1'	8.8'	N 9°18.4'	11.0'	59.6'
16	12°47.7'	56°34.4'	S 16°41.7'	207°55.9'	8.9'	N 9°07.4'	11.1'	59.5'
17	27°50.1'	71°34.4'	S 16°40.9'	222°23.8'	9.0'	N 8°56.4'	11.1'	59.5'
18	42°52.6'	86°34.3'	S 16°40.2'	236°51.8'	9.1'	N 8°45.3'	11.1'	59.5'
19	57°55.1'	101°34.2'	S 16°39.5'	251°19.8'	9.1'	N 8°34.1'	11.2'	59.4'
20	72°57.5'	116°34.2'	S 16°38.7'	265°48.0'	9.2'	N 8°23.0'	11.2'	59.4'
21	87°60.0'	131°34.1'	S 16°38.0'	280°16.2'	9.3'	N 8°11.8'	11.2'	59.3'
22	103°02.4'	146°34.0'	S 16°37.3'	294°44.5'	9.4'	N 8°00.5'	11.3'	59.3'
23	118°04.9'	161°34.0'	S 16°36.6'	309°12.9'	9.4'	N 7°49.2'	11.3'	59.3'

Sat Feb 3, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.7' SD = 16.2'		SD = 16.0'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	133°07.4'	176°33.9'	S 16°35.8'	323°41.3'	9.5'	N 7°37.9'	11.3'	59.2'
1	148°09.8'	191°33.8'	S 16°35.1'	338°09.8'	9.6'	N 7°26.6'	11.4'	59.2'
2	163°12.3'	206°33.7'	S 16°34.4'	352°38.4'	9.7'	N 7°15.3'	11.4'	59.2'
3	178°14.8'	221°33.7'	S 16°33.6'	7°07.1'	9.7'	N 7°03.9'	11.4'	59.1'
4	193°17.2'	236°33.6'	S 16°32.9'	21°35.8'	9.8'	N 6°52.5'	11.4'	59.1'
5	208°19.7'	251°33.5'	S 16°32.2'	36°04.6'	9.9'	N 6°41.0'	11.5'	59.0'
6	223°22.2'	266°33.5'	S 16°31.4'	50°33.5'	10.0'	N 6°29.6'	11.5'	59.0'
7	238°24.6'	281°33.4'	S 16°30.7'	65°02.5'	10.0'	N 6°18.1'	11.5'	59.0'
8	253°27.1'	296°33.3'	S 16°30.0'	79°31.5'	10.1'	N 6°06.6'	11.5'	58.9'
9	268°29.5'	311°33.3'	S 16°29.2'	94°00.6'	10.2'	N 5°55.1'	11.5'	58.9'
10	283°32.0'	326°33.2'	S 16°28.5'	108°29.7'	10.2'	N 5°43.5'	11.5'	58.9'
11	298°34.5'	341°33.1'	S 16°27.7'	122°59.0'	10.3'	N 5°32.0'	11.6'	58.8'
12	313°36.9'	356°33.1'	S 16°27.0'	137°28.3'	10.4'	N 5°20.4'	11.6'	58.8'
13	328°39.4'	11°33.0'	S 16°26.3'	151°57.6'	10.4'	N 5°08.8'	11.6'	58.7'
14	343°41.9'	26°33.0'	S 16°25.5'	166°27.1'	10.5'	N 4°57.3'	11.6'	58.7'
15	358°44.3'	41°32.9'	S 16°24.8'	180°56.6'	10.6'	N 4°45.7'	11.6'	58.7'
16	13°46.8'	56°32.8'	S 16°24.0'	195°26.1'	10.6'	N 4°34.0'	11.6'	58.6'
17	28°49.3'	71°32.8'	S 16°23.3'	209°55.8'	10.7'	N 4°22.4'	11.6'	58.6'
18	43°51.7'	86°32.7'	S 16°22.6'	224°25.5'	10.8'	N 4°10.8'	11.6'	58.5'
19	58°54.2'	101°32.6'	S 16°21.8'	238°55.2'	10.8'	N 3°59.2'	11.6'	58.5'
20	73°56.7'	116°32.6'	S 16°21.1'	253°25.0'	10.9'	N 3°47.5'	11.6'	58.5'
21	88°59.1'	131°32.5'	S 16°20.3'	267°54.9'	10.9'	N 3°35.9'	11.6'	58.4'
22	104°01.6'	146°32.5'	S 16°19.6'	282°24.8'	11.0'	N 3°24.2'	11.6'	58.4'
23	119°04.0'	161°32.4'	S 16°18.9'	296°54.8'	11.1'	N 3°12.6'	11.6'	58.3'

Sun Feb 4, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.8' SD = 16.2'		SD = 15.8'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	134°06.5'	176°32.3'	S 16°18.1'	311°24.9'	11.1'	N 3°01.0'	11.6'	58.3'
1	149°09.0'	191°32.3'	S 16°17.4'	325°55.0'	11.2'	N 2°49.3'	11.6'	58.3'
2	164°11.4'	206°32.2'	S 16°16.6'	340°25.2'	11.2'	N 2°37.7'	11.6'	58.2'
3	179°13.9'	221°32.2'	S 16°15.9'	354°55.4'	11.3'	N 2°26.0'	11.6'	58.2'
4	194°16.4'	236°32.1'	S 16°15.1'	9°25.7'	11.3'	N 2°14.4'	11.6'	58.1'
5	209°18.8'	251°32.0'	S 16°14.4'	23°56.0'	11.4'	N 2°02.8'	11.6'	58.1'
6	224°21.3'	266°32.0'	S 16°13.6'	38°26.4'	11.4'	N 1°51.1'	11.6'	58.1'
7	239°23.8'	281°31.9'	S 16°12.9'	52°56.9'	11.5'	N 1°39.5'	11.6'	58.0'
8	254°26.2'	296°31.9'	S 16°12.1'	67°27.4'	11.6'	N 1°27.9'	11.6'	58.0'
9	269°28.7'	311°31.8'	S 16°11.4'	81°57.9'	11.6'	N 1°16.3'	11.6'	57.9'
10	284°31.2'	326°31.7'	S 16°10.6'	96°28.5'	11.7'	N 1°04.7'	11.6'	57.9'
11	299°33.6'	341°31.7'	S 16°09.9'	110°59.2'	11.7'	N 0°53.1'	11.6'	57.9'
12	314°36.1'	356°31.6'	S 16°09.1'	125°29.9'	11.8'	N 0°41.6'	11.6'	57.8'
13	329°38.5'	11°31.6'	S 16°08.4'	140°00.7'	11.8'	N 0°30.0'	11.5'	57.8'
14	344°41.0'	26°31.5'	S 16°07.6'	154°31.5'	11.8'	N 0°18.5'	11.5'	57.7'
15	359°43.5'	41°31.5'	S 16°06.9'	169°02.3'	11.9'	N 0°07.0'	11.5'	57.7'
16	14°45.9'	56°31.4'	S 16°06.1'	183°33.2'	11.9'	S 0°04.5'	11.5'	57.7'
17	29°48.4'	71°31.4'	S 16°05.4'	198°04.1'	12.0'	S 0°16.0'	11.5'	57.6'
18	44°50.9'	86°31.3'	S 16°04.6'	212°35.1'	12.0'	S 0°27.5'	11.5'	57.6'
19	59°53.3'	101°31.2'	S 16°03.9'	227°06.2'	12.1'	S 0°39.0'	11.4'	57.5'
20	74°55.8'	116°31.2'	S 16°03.1'	241°37.2'	12.1'	S 0°50.4'	11.4'	57.5'
21	89°58.3'	131°31.1'	S 16°02.4'	256°08.3'	12.2'	S 1°01.8'	11.4'	57.5'
22	105°00.7'	146°31.1'	S 16°01.6'	270°39.5'	12.2'	S 1°13.2'	11.4'	57.4'
23	120°03.2'	161°31.0'	S 16°00.9'	285°10.7'	12.2'	S 1°24.6'	11.3'	57.4'

Mon Feb 5, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.8' SD = 16.2'		SD = 15.5'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	135°05.6'	176°31.0'	S 16°00.1'	299°41.9'	12.3'	S 1°35.9'	11.3'	57.4'
1	150°08.1'	191°30.9'	S 15°59.4'	314°13.2'	12.3'	S 1°47.2'	11.3'	57.3'
2	165°10.6'	206°30.9'	S 15°58.6'	328°44.5'	12.4'	S 1°58.5'	11.3'	57.3'
3	180°13.0'	221°30.8'	S 15°57.8'	343°15.9'	12.4'	S 2°09.8'	11.2'	57.2'
4	195°15.5'	236°30.8'	S 15°57.1'	357°47.3'	12.4'	S 2°21.0'	11.2'	57.2'
5	210°18.0'	251°30.7'	S 15°56.3'	12°18.7'	12.5'	S 2°32.3'	11.2'	57.2'
6	225°20.4'	266°30.7'	S 15°55.6'	26°50.1'	12.5'	S 2°43.4'	11.2'	57.1'
7	240°22.9'	281°30.6'	S 15°54.8'	41°21.6'	12.5'	S 2°54.6'	11.1'	57.1'
8	255°25.4'	296°30.6'	S 15°54.0'	55°53.2'	12.6'	S 3°05.7'	11.1'	57.0'
9	270°27.8'	311°30.5'	S 15°53.3'	70°24.7'	12.6'	S 3°16.8'	11.1'	57.0'
10	285°30.3'	326°30.5'	S 15°52.5'	84°56.3'	12.6'	S 3°27.9'	11.0'	57.0'
11	300°32.8'	341°30.4'	S 15°51.8'	99°27.9'	12.7'	S 3°38.9'	11.0'	56.9'
12	315°35.2'	356°30.4'	S 15°51.0'	113°59.6'	12.7'	S 3°49.9'	11.0'	56.9'
13	330°37.7'	11°30.3'	S 15°50.2'	128°31.3'	12.7'	S 4°00.9'	10.9'	56.9'
14	345°40.1'	26°30.3'	S 15°49.5'	143°03.0'	12.7'	S 4°11.8'	10.9'	56.8'
15	0°42.6'	41°30.2'	S 15°48.7'	157°34.7'	12.8'	S 4°22.7'	10.9'	56.8'
16	15°45.1'	56°30.2'	S 15°48.0'	172°06.5'	12.8'	S 4°33.6'	10.8'	56.7'
17	30°47.5'	71°30.1'	S 15°47.2'	186°38.3'	12.8'	S 4°44.4'	10.8'	56.7'
18	45°50.0'	86°30.1'	S 15°46.4'	201°10.1'	12.8'	S 4°55.2'	10.8'	56.7'
19	60°52.5'	101°30.1'	S 15°45.7'	215°42.0'	12.9'	S 5°06.0'	10.7'	56.6'
20	75°54.9'	116°30.0'	S 15°44.9'	230°13.8'	12.9'	S 5°16.7'	10.7'	56.6'
21	90°57.4'	131°30.0'	S 15°44.1'	244°45.7'	12.9'	S 5°27.3'	10.6'	56.6'
22	105°59.9'	146°29.9'	S 15°43.4'	259°17.6'	12.9'	S 5°38.0'	10.6'	56.5'
23	121°02.3'	161°29.9'	S 15°42.6'	273°49.6'	13.0'	S 5°48.6'	10.6'	56.5'

Tue Feb 6, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.8' SD = 16.2'		SD = 15.3'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	136°04.8'	176°29.8'	S 15°41.8'	288°21.5'	13.0'	S 5°59.1'	10.5'	56.5'
1	151°07.2'	191°29.8'	S 15°41.1'	302°53.5'	13.0'	S 6°09.6'	10.5'	56.4'
2	166°09.7'	206°29.7'	S 15°40.3'	317°25.5'	13.0'	S 6°20.1'	10.4'	56.4'
3	181°12.2'	221°29.7'	S 15°39.5'	331°57.5'	13.0'	S 6°30.5'	10.4'	56.3'
4	196°14.6'	236°29.7'	S 15°38.8'	346°29.6'	13.1'	S 6°40.9'	10.3'	56.3'
5	211°17.1'	251°29.6'	S 15°38.0'	1°01.6'	13.1'	S 6°51.2'	10.3'	56.3'
6	226°19.6'	266°29.6'	S 15°37.2'	15°33.7'	13.1'	S 7°01.5'	10.2'	56.2'
7	241°22.0'	281°29.5'	S 15°36.5'	30°05.8'	13.1'	S 7°11.8'	10.2'	56.2'
8	256°24.5'	296°29.5'	S 15°35.7'	44°37.9'	13.1'	S 7°22.0'	10.2'	56.2'
9	271°27.0'	311°29.5'	S 15°34.9'	59°10.0'	13.1'	S 7°32.1'	10.1'	56.1'
10	286°29.4'	326°29.4'	S 15°34.1'	73°42.1'	13.1'	S 7°42.2'	10.1'	56.1'
11	301°31.9'	341°29.4'	S 15°33.4'	88°14.3'	13.2'	S 7°52.3'	10.0'	56.1'
12	316°34.4'	356°29.3'	S 15°32.6'	102°46.4'	13.2'	S 8°02.3'	10.0'	56.0'
13	331°36.8'	11°29.3'	S 15°31.8'	117°18.6'	13.2'	S 8°12.3'	9.9'	56.0'
14	346°39.3'	26°29.3'	S 15°31.0'	131°50.8'	13.2'	S 8°22.2'	9.9'	56.0'
15	1°41.7'	41°29.2'	S 15°30.3'	146°23.0'	13.2'	S 8°32.0'	9.8'	55.9'
16	16°44.2'	56°29.2'	S 15°29.5'	160°55.2'	13.2'	S 8°41.8'	9.8'	55.9'
17	31°46.7'	71°29.1'	S 15°28.7'	175°27.4'	13.2'	S 8°51.6'	9.7'	55.9'
18	46°49.1'	86°29.1'	S 15°28.0'	189°59.6'	13.2'	S 9°01.3'	9.7'	55.8'
19	61°51.6'	101°29.1'	S 15°27.2'	204°31.8'	13.2'	S 9°10.9'	9.6'	55.8'
20	76°54.1'	116°29.0'	S 15°26.4'	219°04.1'	13.2'	S 9°20.5'	9.5'	55.8'
21	91°56.5'	131°29.0'	S 15°25.6'	233°36.3'	13.3'	S 9°30.1'	9.5'	55.8'
22	106°59.0'	146°28.9'	S 15°24.8'	248°08.6'	13.3'	S 9°39.6'	9.4'	55.7'
23	122°01.5'	161°28.9'	S 15°24.1'	262°40.8'	13.3'	S 9°49.0'	9.4'	55.7'

Wed Feb 7, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.8' SD = 16.2'		SD = 15.1'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	137°03.9'	176°28.9'	S 15°23.3'	277°13.1'	13.3'	S 9°58.4'	9.3'	55.7'
1	152°06.4'	191°28.8'	S 15°22.5'	291°45.4'	13.3'	S 10°07.7'	9.3'	55.6'
2	167°08.9'	206°28.8'	S 15°21.7'	306°17.6'	13.3'	S 10°17.0'	9.2'	55.6'
3	182°11.3'	221°28.8'	S 15°21.0'	320°49.9'	13.3'	S 10°26.2'	9.2'	55.6'
4	197°13.8'	236°28.7'	S 15°20.2'	335°22.2'	13.3'	S 10°35.3'	9.1'	55.5'
5	212°16.2'	251°28.7'	S 15°19.4'	349°54.5'	13.3'	S 10°44.4'	9.0'	55.5'
6	227°18.7'	266°28.7'	S 15°18.6'	4°26.7'	13.3'	S 10°53.5'	9.0'	55.5'
7	242°21.2'	281°28.6'	S 15°17.8'	18°59.0'	13.3'	S 11°02.5'	8.9'	55.5'
8	257°23.6'	296°28.6'	S 15°17.1'	33°31.3'	13.3'	S 11°11.4'	8.9'	55.4'
9	272°26.1'	311°28.6'	S 15°16.3'	48°03.6'	13.3'	S 11°20.3'	8.8'	55.4'
10	287°28.6'	326°28.5'	S 15°15.5'	62°35.9'	13.3'	S 11°29.1'	8.7'	55.4'
11	302°31.0'	341°28.5'	S 15°14.7'	77°08.2'	13.3'	S 11°37.8'	8.7'	55.3'
12	317°33.5'	356°28.5'	S 15°13.9'	91°40.4'	13.3'	S 11°46.5'	8.6'	55.3'
13	332°36.0'	11°28.4'	S 15°13.1'	106°12.7'	13.3'	S 11°55.1'	8.6'	55.3'
14	347°38.4'	26°28.4'	S 15°12.4'	120°45.0'	13.3'	S 12°03.7'	8.5'	55.3'
15	2°40.9'	41°28.4'	S 15°11.6'	135°17.3'	13.3'	S 12°12.1'	8.4'	55.2'
16	17°43.3'	56°28.3'	S 15°10.8'	149°49.5'	13.3'	S 12°20.6'	8.4'	55.2'
17	32°45.8'	71°28.3'	S 15°10.0'	164°21.8'	13.3'	S 12°28.9'	8.3'	55.2'
18	47°48.3'	86°28.3'	S 15°09.2'	178°54.1'	13.3'	S 12°37.3'	8.2'	55.2'
19	62°50.7'	101°28.3'	S 15°08.4'	193°26.3'	13.3'	S 12°45.5'	8.2'	55.1'
20	77°53.2'	116°28.2'	S 15°07.6'	207°58.6'	13.2'	S 12°53.7'	8.1'	55.1'
21	92°55.7'	131°28.2'	S 15°06.8'	222°30.8'	13.2'	S 13°01.8'	8.0'	55.1'
22	107°58.1'	146°28.2'	S 15°06.1'	237°03.1'	13.2'	S 13°09.8'	8.0'	55.1'
23	123°00.6'	161°28.1'	S 15°05.3'	251°35.3'	13.2'	S 13°17.8'	7.9'	55.0'

Thu Feb 8, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.8' SD = 16.2'		SD = 14.9'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	138°03.1'	176°28.1'	S 15°04.5'	266°07.5'	13.2'	S 13°25.7'	7.8'	55.0'
1	153°05.5'	191°28.1'	S 15°03.7'	280°39.8'	13.2'	S 13°33.6'	7.8'	55.0'
2	168°08.0'	206°28.1'	S 15°02.9'	295°12.0'	13.2'	S 13°41.3'	7.7'	55.0'
3	183°10.5'	221°28.0'	S 15°02.1'	309°44.2'	13.2'	S 13°49.1'	7.6'	54.9'
4	198°12.9'	236°28.0'	S 15°01.3'	324°16.4'	13.2'	S 13°56.7'	7.6'	54.9'
5	213°15.4'	251°28.0'	S 15°00.5'	338°48.6'	13.2'	S 14°04.3'	7.5'	54.9'
6	228°17.8'	266°28.0'	S 14°59.7'	353°20.7'	13.2'	S 14°11.8'	7.4'	54.9'
7	243°20.3'	281°27.9'	S 14°58.9'	7°52.9'	13.2'	S 14°19.2'	7.4'	54.9'
8	258°22.8'	296°27.9'	S 14°58.2'	22°25.1'	13.1'	S 14°26.6'	7.3'	54.8'
9	273°25.2'	311°27.9'	S 14°57.4'	36°57.2'	13.1'	S 14°33.9'	7.2'	54.8'
10	288°27.7'	326°27.9'	S 14°56.6'	51°29.3'	13.1'	S 14°41.1'	7.2'	54.8'
11	303°30.2'	341°27.8'	S 14°55.8'	66°01.5'	13.1'	S 14°48.3'	7.1'	54.8'
12	318°32.6'	356°27.8'	S 14°55.0'	80°33.6'	13.1'	S 14°55.3'	7.0'	54.8'
13	333°35.1'	11°27.8'	S 14°54.2'	95°05.7'	13.1'	S 15°02.4'	6.9'	54.7'
14	348°37.6'	26°27.8'	S 14°53.4'	109°37.8'	13.1'	S 15°09.3'	6.9'	54.7'
15	3°40.0'	41°27.7'	S 14°52.6'	124°09.9'	13.1'	S 15°16.2'	6.8'	54.7'
16	18°42.5'	56°27.7'	S 14°51.8'	138°41.9'	13.1'	S 15°23.0'	6.7'	54.7'
17	33°45.0'	71°27.7'	S 14°51.0'	153°14.0'	13.0'	S 15°29.7'	6.6'	54.7'
18	48°47.4'	86°27.7'	S 14°50.2'	167°46.0'	13.0'	S 15°36.3'	6.6'	54.6'
19	63°49.9'	101°27.6'	S 14°49.4'	182°18.1'	13.0'	S 15°42.9'	6.5'	54.6'
20	78°52.3'	116°27.6'	S 14°48.6'	196°50.1'	13.0'	S 15°49.4'	6.4'	54.6'
21	93°54.8'	131°27.6'	S 14°47.8'	211°22.1'	13.0'	S 15°55.8'	6.3'	54.6'
22	108°57.3'	146°27.6'	S 14°47.0'	225°54.1'	13.0'	S 16°02.2'	6.3'	54.6'
23	123°59.7'	161°27.6'	S 14°46.2'	240°26.1'	13.0'	S 16°08.4'	6.2'	54.6'

Fri Feb 9, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.8' SD = 16.2'		SD = 14.8'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	139°02.2'	176°27.5'	S 14°45.4'	254°58.0'	12.9'	S 16°14.6'	6.1'	54.5'
1	154°04.7'	191°27.5'	S 14°44.6'	269°30.0'	12.9'	S 16°20.8'	6.0'	54.5'
2	169°07.1'	206°27.5'	S 14°43.8'	284°01.9'	12.9'	S 16°26.8'	6.0'	54.5'
3	184°09.6'	221°27.5'	S 14°43.0'	298°33.8'	12.9'	S 16°32.8'	5.9'	54.5'
4	199°12.1'	236°27.5'	S 14°42.2'	313°05.7'	12.9'	S 16°38.7'	5.8'	54.5'
5	214°14.5'	251°27.5'	S 14°41.4'	327°37.6'	12.9'	S 16°44.5'	5.7'	54.5'
6	229°17.0'	266°27.4'	S 14°40.6'	342°09.5'	12.9'	S 16°50.2'	5.7'	54.4'
7	244°19.4'	281°27.4'	S 14°39.8'	356°41.3'	12.8'	S 16°55.9'	5.6'	54.4'
8	259°21.9'	296°27.4'	S 14°39.0'	11°13.2'	12.8'	S 17°01.5'	5.5'	54.4'
9	274°24.4'	311°27.4'	S 14°38.2'	25°45.0'	12.8'	S 17°07.0'	5.4'	54.4'
10	289°26.8'	326°27.4'	S 14°37.4'	40°16.8'	12.8'	S 17°12.4'	5.3'	54.4'
11	304°29.3'	341°27.3'	S 14°36.6'	54°48.6'	12.8'	S 17°17.7'	5.3'	54.4'
12	319°31.8'	356°27.3'	S 14°35.8'	69°20.4'	12.8'	S 17°23.0'	5.2'	54.4'
13	334°34.2'	11°27.3'	S 14°35.0'	83°52.1'	12.7'	S 17°28.2'	5.1'	54.3'
14	349°36.7'	26°27.3'	S 14°34.2'	98°23.9'	12.7'	S 17°33.3'	5.0'	54.3'
15	4°39.2'	41°27.3'	S 14°33.4'	112°55.6'	12.7'	S 17°38.3'	4.9'	54.3'
16	19°41.6'	56°27.3'	S 14°32.6'	127°27.3'	12.7'	S 17°43.2'	4.9'	54.3'
17	34°44.1'	71°27.3'	S 14°31.8'	141°59.0'	12.7'	S 17°48.1'	4.8'	54.3'
18	49°46.6'	86°27.2'	S 14°31.0'	156°30.7'	12.7'	S 17°52.8'	4.7'	54.3'
19	64°49.0'	101°27.2'	S 14°30.2'	171°02.4'	12.6'	S 17°57.5'	4.6'	54.3'
20	79°51.5'	116°27.2'	S 14°29.3'	185°34.0'	12.6'	S 18°02.1'	4.5'	54.3'
21	94°53.9'	131°27.2'	S 14°28.5'	200°05.7'	12.6'	S 18°06.7'	4.4'	54.3'
22	109°56.4'	146°27.2'	S 14°27.7'	214°37.3'	12.6'	S 18°11.1'	4.4'	54.2'
23	124°58.9'	161°27.2'	S 14°26.9'	229°08.9'	12.6'	S 18°15.5'	4.3'	54.2'

Sat Feb 10, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.8' SD = 16.2'		SD = 14.8'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	140°01.3'	176°27.2'	S 14°26.1'	243°40.5'	12.6'	S 18°19.7'	4.2'	54.2'
1	155°03.8'	191°27.2'	S 14°25.3'	258°12.0'	12.6'	S 18°23.9'	4.1'	54.2'
2	170°06.3'	206°27.1'	S 14°24.5'	272°43.6'	12.5'	S 18°28.0'	4.0'	54.2'
3	185°08.7'	221°27.1'	S 14°23.7'	287°15.1'	12.5'	S 18°32.0'	3.9'	54.2'
4	200°11.2'	236°27.1'	S 14°22.9'	301°46.6'	12.5'	S 18°36.0'	3.9'	54.2'
5	215°13.7'	251°27.1'	S 14°22.1'	316°18.2'	12.5'	S 18°39.8'	3.8'	54.2'
6	230°16.1'	266°27.1'	S 14°21.2'	330°49.6'	12.5'	S 18°43.6'	3.7'	54.2'
7	245°18.6'	281°27.1'	S 14°20.4'	345°21.1'	12.5'	S 18°47.3'	3.6'	54.2'
8	260°21.1'	296°27.1'	S 14°19.6'	359°52.6'	12.4'	S 18°50.9'	3.5'	54.2'
9	275°23.5'	311°27.1'	S 14°18.8'	14°24.0'	12.4'	S 18°54.4'	3.4'	54.1'
10	290°26.0'	326°27.1'	S 14°18.0'	28°55.4'	12.4'	S 18°57.8'	3.3'	54.1'
11	305°28.4'	341°27.1'	S 14°17.2'	43°26.9'	12.4'	S 19°01.1'	3.2'	54.1'
12	320°30.9'	356°27.1'	S 14°16.4'	57°58.3'	12.4'	S 19°04.4'	3.2'	54.1'
13	335°33.4'	11°27.0'	S 14°15.5'	72°29.6'	12.4'	S 19°07.5'	3.1'	54.1'
14	350°35.8'	26°27.0'	S 14°14.7'	87°01.0'	12.4'	S 19°10.6'	3.0'	54.1'
15	5°38.3'	41°27.0'	S 14°13.9'	101°32.4'	12.3'	S 19°13.6'	2.9'	54.1'
16	20°40.8'	56°27.0'	S 14°13.1'	116°03.7'	12.3'	S 19°16.5'	2.8'	54.1'
17	35°43.2'	71°27.0'	S 14°12.3'	130°35.0'	12.3'	S 19°19.3'	2.7'	54.1'
18	50°45.7'	86°27.0'	S 14°11.5'	145°06.3'	12.3'	S 19°22.0'	2.6'	54.1'
19	65°48.2'	101°27.0'	S 14°10.6'	159°37.6'	12.3'	S 19°24.6'	2.5'	54.1'
20	80°50.6'	116°27.0'	S 14°09.8'	174°08.9'	12.3'	S 19°27.2'	2.5'	54.1'
21	95°53.1'	131°27.0'	S 14°09.0'	188°40.2'	12.3'	S 19°29.6'	2.4'	54.1'
22	110°55.5'	146°27.0'	S 14°08.2'	203°11.4'	12.2'	S 19°32.0'	2.3'	54.1'
23	125°58.0'	161°27.0'	S 14°07.4'	217°42.7'	12.2'	S 19°34.3'	2.2'	54.1'

## Sun Feb 11, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.8' SD = 16.2'		SD = 14.7'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	141°00.5'	176°27.0'	S 14°06.6'	232°13.9'	12.2'	S 19°36.5'	2.1'	54.1'
1	156°02.9'	191°27.0'	S 14°05.7'	246°45.1'	12.2'	S 19°38.5'	2.0'	54.1'
2	171°05.4'	206°27.0'	S 14°04.9'	261°16.3'	12.2'	S 19°40.6'	1.9'	54.1'
3	186°07.9'	221°27.0'	S 14°04.1'	275°47.5'	12.2'	S 19°42.5'	1.8'	54.1'
4	201°10.3'	236°27.0'	S 14°03.3'	290°18.7'	12.2'	S 19°44.3'	1.7'	54.1'
5	216°12.8'	251°27.0'	S 14°02.4'	304°49.9'	12.2'	S 19°46.0'	1.6'	54.1'
6	231°15.3'	266°27.0'	S 14°01.6'	319°21.0'	12.1'	S 19°47.7'	1.6'	54.1'
7	246°17.7'	281°27.0'	S 14°00.8'	333°52.2'	12.1'	S 19°49.2'	1.5'	54.1'
8	261°20.2'	296°27.0'	S 13°60.0'	348°23.3'	12.1'	S 19°50.7'	1.4'	54.0'
9	276°22.7'	311°27.0'	S 13°59.2'	2°54.4'	12.1'	S 19°52.0'	1.3'	54.0'
10	291°25.1'	326°27.0'	S 13°58.3'	17°25.6'	12.1'	S 19°53.3'	1.2'	54.0'
11	306°27.6'	341°27.0'	S 13°57.5'	31°56.7'	12.1'	S 19°54.5'	1.1'	54.0'
12	321°30.0'	356°27.0'	S 13°56.7'	46°27.8'	12.1'	S 19°55.6'	1.0'	54.0'
13	336°32.5'	11°27.0'	S 13°55.9'	60°58.8'	12.1'	S 19°56.6'	0.9'	54.0'
14	351°35.0'	26°27.0'	S 13°55.0'	75°29.9'	12.1'	S 19°57.5'	0.8'	54.0'
15	6°37.4'	41°27.0'	S 13°54.2'	90°01.0'	12.1'	S 19°58.3'	0.7'	54.0'
16	21°39.9'	56°27.0'	S 13°53.4'	104°32.1'	12.1'	S 19°59.1'	0.6'	54.0'
17	36°42.4'	71°27.0'	S 13°52.6'	119°03.1'	12.0'	S 19°59.7'	0.5'	54.0'
18	51°44.8'	86°27.0'	S 13°51.7'	133°34.2'	12.0'	S 20°00.2'	0.5'	54.0'
19	66°47.3'	101°27.0'	S 13°50.9'	148°05.2'	12.0'	S 20°00.7'	0.4'	54.0'
20	81°49.8'	116°27.0'	S 13°50.1'	162°36.2'	12.0'	S 20°01.1'	0.3'	54.1'
21	96°52.2'	131°27.0'	S 13°49.3'	177°07.2'	12.0'	S 20°01.3'	0.2'	54.1'
22	111°54.7'	146°27.0'	S 13°48.4'	191°38.3'	12.0'	S 20°01.5'	0.1'	54.1'
23	126°57.2'	161°27.0'	S 13°47.6'	206°09.3'	12.0'	S 20°01.6'	0.0'	54.1'

## Mon Feb 12, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.8' SD = 16.2'		SD = 14.8'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	141°59.6'	176°27.0'	S 13°46.8'	220°40.3'	12.0'	S 20°01.6'	0.1'	54.1'
1	157°02.1'	191°27.0'	S 13°45.9'	235°11.3'	12.0'	S 20°01.5'	0.2'	54.1'
2	172°04.5'	206°27.0'	S 13°45.1'	249°42.3'	12.0'	S 20°01.3'	0.3'	54.1'
3	187°07.0'	221°27.0'	S 13°44.3'	264°13.3'	12.0'	S 20°01.0'	0.4'	54.1'
4	202°09.5'	236°27.0'	S 13°43.4'	278°44.3'	12.0'	S 20°00.6'	0.5'	54.1'
5	217°11.9'	251°27.0'	S 13°42.6'	293°15.3'	12.0'	S 20°00.1'	0.6'	54.1'
6	232°14.4'	266°27.0'	S 13°41.8'	307°46.2'	12.0'	S 19°59.5'	0.7'	54.1'
7	247°16.9'	281°27.0'	S 13°40.9'	322°17.2'	12.0'	S 19°58.9'	0.8'	54.1'
8	262°19.3'	296°27.0'	S 13°40.1'	336°48.2'	12.0'	S 19°58.1'	0.8'	54.1'
9	277°21.8'	311°27.0'	S 13°39.3'	351°19.2'	12.0'	S 19°57.3'	0.9'	54.1'
10	292°24.3'	326°27.0'	S 13°38.5'	5°50.1'	12.0'	S 19°56.3'	1.0'	54.1'
11	307°26.7'	341°27.0'	S 13°37.6'	20°21.1'	12.0'	S 19°55.3'	1.1'	54.1'
12	322°29.2'	356°27.1'	S 13°36.8'	34°52.1'	12.0'	S 19°54.2'	1.2'	54.1'
13	337°31.7'	11°27.1'	S 13°35.9'	49°23.0'	12.0'	S 19°53.0'	1.3'	54.1'
14	352°34.1'	26°27.1'	S 13°35.1'	63°54.0'	12.0'	S 19°51.6'	1.4'	54.1'
15	7°36.6'	41°27.1'	S 13°34.3'	78°25.0'	12.0'	S 19°50.2'	1.5'	54.1'
16	22°39.0'	56°27.1'	S 13°33.4'	92°56.0'	12.0'	S 19°48.7'	1.6'	54.1'
17	37°41.5'	71°27.1'	S 13°32.6'	107°26.9'	12.0'	S 19°47.2'	1.7'	54.1'
18	52°44.0'	86°27.1'	S 13°31.8'	121°57.9'	12.0'	S 19°45.5'	1.8'	54.1'
19	67°46.4'	101°27.1'	S 13°30.9'	136°28.9'	12.0'	S 19°43.7'	1.9'	54.1'
20	82°48.9'	116°27.1'	S 13°30.1'	150°59.9'	12.0'	S 19°41.8'	2.0'	54.2'
21	97°51.4'	131°27.1'	S 13°29.3'	165°30.8'	12.0'	S 19°39.9'	2.1'	54.2'
22	112°53.8'	146°27.2'	S 13°28.4'	180°01.8'	12.0'	S 19°37.8'	2.1'	54.2'
23	127°56.3'	161°27.2'	S 13°27.6'	194°32.8'	12.0'	S 19°35.7'	2.2'	54.2'

Tue Feb 13, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.8' SD = 16.2'		SD = 14.8'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	142°58.8'	176°27.2'	S 13°26.7'	209°03.8'	12.0'	S 19°33.5'	2.3'	54.2'
1	158°01.2'	191°27.2'	S 13°25.9'	223°34.8'	12.0'	S 19°31.1'	2.4'	54.2'
2	173°03.7'	206°27.2'	S 13°25.1'	238°05.8'	12.0'	S 19°28.7'	2.5'	54.2'
3	188°06.1'	221°27.2'	S 13°24.2'	252°36.8'	12.0'	S 19°26.2'	2.6'	54.2'
4	203°08.6'	236°27.2'	S 13°23.4'	267°07.8'	12.0'	S 19°23.6'	2.7'	54.2'
5	218°11.1'	251°27.2'	S 13°22.5'	281°38.8'	12.0'	S 19°20.9'	2.8'	54.2'
6	233°13.5'	266°27.2'	S 13°21.7'	296°09.8'	12.0'	S 19°18.1'	2.9'	54.2'
7	248°16.0'	281°27.3'	S 13°20.9'	310°40.8'	12.0'	S 19°15.3'	3.0'	54.2'
8	263°18.5'	296°27.3'	S 13°20.0'	325°11.9'	12.0'	S 19°12.3'	3.1'	54.2'
9	278°20.9'	311°27.3'	S 13°19.2'	339°42.9'	12.0'	S 19°09.2'	3.1'	54.3'
10	293°23.4'	326°27.3'	S 13°18.3'	354°13.9'	12.1'	S 19°06.1'	3.2'	54.3'
11	308°25.9'	341°27.3'	S 13°17.5'	8°45.0'	12.1'	S 19°02.9'	3.3'	54.3'
12	323°28.3'	356°27.3'	S 13°16.7'	23°16.1'	12.1'	S 18°59.5'	3.4'	54.3'
13	338°30.8'	11°27.4'	S 13°15.8'	37°47.1'	12.1'	S 18°56.1'	3.5'	54.3'
14	353°33.3'	26°27.4'	S 13°15.0'	52°18.2'	12.1'	S 18°52.6'	3.6'	54.3'
15	8°35.7'	41°27.4'	S 13°14.1'	66°49.3'	12.1'	S 18°49.0'	3.7'	54.3'
16	23°38.2'	56°27.4'	S 13°13.3'	81°20.4'	12.1'	S 18°45.3'	3.8'	54.3'
17	38°40.6'	71°27.4'	S 13°12.4'	95°51.5'	12.1'	S 18°41.6'	3.9'	54.3'
18	53°43.1'	86°27.4'	S 13°11.6'	110°22.6'	12.1'	S 18°37.7'	3.9'	54.3'
19	68°45.6'	101°27.5'	S 13°10.7'	124°53.7'	12.1'	S 18°33.8'	4.0'	54.3'
20	83°48.0'	116°27.5'	S 13°09.9'	139°24.9'	12.1'	S 18°29.7'	4.1'	54.4'
21	98°50.5'	131°27.5'	S 13°09.1'	153°56.0'	12.2'	S 18°25.6'	4.2'	54.4'
22	113°53.0'	146°27.5'	S 13°08.2'	168°27.2'	12.2'	S 18°21.4'	4.3'	54.4'
23	128°55.4'	161°27.5'	S 13°07.4'	182°58.3'	12.2'	S 18°17.1'	4.4'	54.4'

Wed Feb 14, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 16.2'		SD = 14.9'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	143°57.9'	176°27.5'	S 13°06.5'	197°29.5'	12.2'	S 18°12.7'	4.5'	54.4'
1	159°00.4'	191°27.6'	S 13°05.7'	212°00.7'	12.2'	S 18°08.2'	4.6'	54.4'
2	174°02.8'	206°27.6'	S 13°04.8'	226°31.9'	12.2'	S 18°03.7'	4.6'	54.4'
3	189°05.3'	221°27.6'	S 13°04.0'	241°03.1'	12.2'	S 17°59.0'	4.7'	54.4'
4	204°07.8'	236°27.6'	S 13°03.1'	255°34.3'	12.2'	S 17°54.3'	4.8'	54.4'
5	219°10.2'	251°27.6'	S 13°02.3'	270°05.6'	12.3'	S 17°49.5'	4.9'	54.5'
6	234°12.7'	266°27.7'	S 13°01.4'	284°36.8'	12.3'	S 17°44.6'	5.0'	54.5'
7	249°15.1'	281°27.7'	S 13°00.6'	299°08.1'	12.3'	S 17°39.6'	5.1'	54.5'
8	264°17.6'	296°27.7'	S 12°59.7'	313°39.4'	12.3'	S 17°34.5'	5.2'	54.5'
9	279°20.1'	311°27.7'	S 12°58.9'	328°10.7'	12.3'	S 17°29.4'	5.2'	54.5'
10	294°22.5'	326°27.8'	S 12°58.0'	342°42.0'	12.3'	S 17°24.1'	5.3'	54.5'
11	309°25.0'	341°27.8'	S 12°57.2'	357°13.3'	12.3'	S 17°18.8'	5.4'	54.5'
12	324°27.5'	356°27.8'	S 12°56.3'	11°44.6'	12.4'	S 17°13.4'	5.5'	54.5'
13	339°29.9'	11°27.8'	S 12°55.5'	26°16.0'	12.4'	S 17°07.9'	5.6'	54.6'
14	354°32.4'	26°27.8'	S 12°54.6'	40°47.4'	12.4'	S 17°02.4'	5.7'	54.6'
15	9°34.9'	41°27.9'	S 12°53.8'	55°18.7'	12.4'	S 16°56.7'	5.7'	54.6'
16	24°37.3'	56°27.9'	S 12°52.9'	69°50.1'	12.4'	S 16°51.0'	5.8'	54.6'
17	39°39.8'	71°27.9'	S 12°52.0'	84°21.6'	12.4'	S 16°45.2'	5.9'	54.6'
18	54°42.3'	86°27.9'	S 12°51.2'	98°53.0'	12.4'	S 16°39.3'	6.0'	54.6'
19	69°44.7'	101°28.0'	S 12°50.3'	113°24.4'	12.5'	S 16°33.3'	6.1'	54.6'
20	84°47.2'	116°28.0'	S 12°49.5'	127°55.9'	12.5'	S 16°27.2'	6.1'	54.7'
21	99°49.6'	131°28.0'	S 12°48.6'	142°27.4'	12.5'	S 16°21.1'	6.2'	54.7'
22	114°52.1'	146°28.0'	S 12°47.8'	156°58.9'	12.5'	S 16°14.9'	6.3'	54.7'
23	129°54.6'	161°28.1'	S 12°46.9'	171°30.4'	12.5'	S 16°08.6'	6.4'	54.7'

Thu Feb 15, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 16.2'		SD = 15.0'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	144°57.0'	176°28.1'	S 12°46.1'	186°01.9'	12.5'	S 16°02.2'	6.4'	54.7'
1	159°59.5'	191°28.1'	S 12°45.2'	200°33.4'	12.6'	S 15°55.8'	6.5'	54.7'
2	175°02.0'	206°28.2'	S 12°44.3'	215°05.0'	12.6'	S 15°49.3'	6.6'	54.7'
3	190°04.4'	221°28.2'	S 12°43.5'	229°36.6'	12.6'	S 15°42.7'	6.7'	54.8'
4	205°06.9'	236°28.2'	S 12°42.6'	244°08.1'	12.6'	S 15°36.0'	6.8'	54.8'
5	220°09.4'	251°28.2'	S 12°41.8'	258°39.7'	12.6'	S 15°29.2'	6.8'	54.8'
6	235°11.8'	266°28.3'	S 12°40.9'	273°11.4'	12.6'	S 15°22.4'	6.9'	54.8'
7	250°14.3'	281°28.3'	S 12°40.1'	287°43.0'	12.7'	S 15°15.5'	7.0'	54.8'
8	265°16.7'	296°28.3'	S 12°39.2'	302°14.7'	12.7'	S 15°08.5'	7.0'	54.8'
9	280°19.2'	311°28.4'	S 12°38.3'	316°46.3'	12.7'	S 15°01.5'	7.1'	54.8'
10	295°21.7'	326°28.4'	S 12°37.5'	331°18.0'	12.7'	S 14°54.4'	7.2'	54.9'
11	310°24.1'	341°28.4'	S 12°36.6'	345°49.7'	12.7'	S 14°47.2'	7.3'	54.9'
12	325°26.6'	356°28.4'	S 12°35.8'	0°21.4'	12.7'	S 14°39.9'	7.3'	54.9'
13	340°29.1'	11°28.5'	S 12°34.9'	14°53.2'	12.8'	S 14°32.6'	7.4'	54.9'
14	355°31.5'	26°28.5'	S 12°34.0'	29°24.9'	12.8'	S 14°25.2'	7.5'	54.9'
15	10°34.0'	41°28.5'	S 12°33.2'	43°56.7'	12.8'	S 14°17.7'	7.5'	54.9'
16	25°36.5'	56°28.6'	S 12°32.3'	58°28.5'	12.8'	S 14°10.1'	7.6'	55.0'
17	40°38.9'	71°28.6'	S 12°31.4'	73°00.3'	12.8'	S 14°02.5'	7.7'	55.0'
18	55°41.4'	86°28.6'	S 12°30.6'	87°32.1'	12.8'	S 13°54.8'	7.8'	55.0'
19	70°43.9'	101°28.7'	S 12°29.7'	102°04.0'	12.9'	S 13°47.1'	7.8'	55.0'
20	85°46.3'	116°28.7'	S 12°28.9'	116°35.8'	12.9'	S 13°39.3'	7.9'	55.0'
21	100°48.8'	131°28.7'	S 12°28.0'	131°07.7'	12.9'	S 13°31.4'	8.0'	55.0'
22	115°51.2'	146°28.8'	S 12°27.1'	145°39.6'	12.9'	S 13°23.4'	8.0'	55.0'
23	130°53.7'	161°28.8'	S 12°26.3'	160°11.5'	12.9'	S 13°15.4'	8.1'	55.1'

Fri Feb 16, 2018 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°56.2'	176°28.8'	S 12°25.4'	174°43.4'	12.9'	S 13°07.3'	8.2'	55.1'
1	160°58.6'	191°28.9'	S 12°24.5'	189°15.3'	12.9'	S 12°59.1'	8.2'	55.1'
2	176°01.1'	206°28.9'	S 12°23.7'	203°47.3'	13.0'	S 12°50.9'	8.3'	55.1'
3	191°03.6'	221°28.9'	S 12°22.8'	218°19.2'	13.0'	S 12°42.6'	8.3'	55.1'
4	206°06.0'	236°29.0'	S 12°21.9'	232°51.2'	13.0'	S 12°34.3'	8.4'	55.1'
5	221°08.5'	251°29.0'	S 12°21.1'	247°23.2'	13.0'	S 12°25.9'	8.5'	55.2'
6	236°11.0'	266°29.1'	S 12°20.2'	261°55.2'	13.0'	S 12°17.4'	8.5'	55.2'
7	251°13.4'	281°29.1'	S 12°19.3'	276°27.2'	13.0'	S 12°08.9'	8.6'	55.2'
8	266°15.9'	296°29.1'	S 12°18.5'	290°59.3'	13.1'	S 12°00.3'	8.7'	55.2'
9	281°18.3'	311°29.2'	S 12°17.6'	305°31.3'	13.1'	S 11°51.6'	8.7'	55.2'
10	296°20.8'	326°29.2'	S 12°16.7'	320°03.4'	13.1'	S 11°42.9'	8.8'	55.2'
11	311°23.3'	341°29.2'	S 12°15.9'	334°35.4'	13.1'	S 11°34.2'	8.8'	55.3'
12	326°25.7'	356°29.3'	S 12°15.0'	349°07.5'	13.1'	S 11°25.3'	8.9'	55.3'
13	341°28.2'	11°29.3'	S 12°14.1'	3°39.6'	13.1'	S 11°16.4'	8.9'	55.3'
14	356°30.7'	26°29.4'	S 12°13.3'	18°11.8'	13.1'	S 11°07.5'	9.0'	55.3'
15	11°33.1'	41°29.4'	S 12°12.4'	32°43.9'	13.1'	S 10°58.5'	9.1'	55.3'
16	26°35.6'	56°29.4'	S 12°11.5'	47°16.0'	13.2'	S 10°49.5'	9.1'	55.4'
17	41°38.1'	71°29.5'	S 12°10.6'	61°48.2'	13.2'	S 10°40.3'	9.2'	55.4'
18	56°40.5'	86°29.5'	S 12°09.8'	76°20.4'	13.2'	S 10°31.2'	9.2'	55.4'
19	71°43.0'	101°29.6'	S 12°08.9'	90°52.5'	13.2'	S 10°22.0'	9.3'	55.4'
20	86°45.5'	116°29.6'	S 12°08.0'	105°24.7'	13.2'	S 10°12.7'	9.3'	55.4'
21	101°47.9'	131°29.6'	S 12°07.2'	119°56.9'	13.2'	S 10°03.4'	9.4'	55.4'
22	116°50.4'	146°29.7'	S 12°06.3'	134°29.1'	13.2'	S 9°54.0'	9.4'	55.5'
23	131°52.8'	161°29.7'	S 12°05.4'	149°01.4'	13.2'	S 9°44.6'	9.5'	55.5'



Sat Feb 17, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 16.2'		SD = 15.2'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	146°55.3'	176°29.8'	S 12°04.5'	163°33.6'	13.2'	S 9°35.1'	9.5'	55.5'
1	161°57.8'	191°29.8'	S 12°03.7'	178°05.8'	13.3'	S 9°25.6'	9.6'	55.5'
2	177°00.2'	206°29.8'	S 12°02.8'	192°38.1'	13.3'	S 9°16.0'	9.6'	55.5'
3	192°02.7'	221°29.9'	S 12°01.9'	207°10.3'	13.3'	S 9°06.4'	9.7'	55.6'
4	207°05.2'	236°29.9'	S 12°01.1'	221°42.6'	13.3'	S 8°56.7'	9.7'	55.6'
5	222°07.6'	251°30.0'	S 12°00.2'	236°14.9'	13.3'	S 8°47.0'	9.8'	55.6'
6	237°10.1'	266°30.0'	S 11°59.3'	250°47.2'	13.3'	S 8°37.2'	9.8'	55.6'
7	252°12.6'	281°30.1'	S 11°58.4'	265°19.5'	13.3'	S 8°27.4'	9.9'	55.6'
8	267°15.0'	296°30.1'	S 11°57.6'	279°51.8'	13.3'	S 8°17.6'	9.9'	55.6'
9	282°17.5'	311°30.1'	S 11°56.7'	294°24.1'	13.3'	S 8°07.7'	9.9'	55.7'
10	297°20.0'	326°30.2'	S 11°55.8'	308°56.4'	13.3'	S 7°57.7'	10.0'	55.7'
11	312°22.4'	341°30.2'	S 11°54.9'	323°28.7'	13.3'	S 7°47.7'	10.0'	55.7'
12	327°24.9'	356°30.3'	S 11°54.0'	338°01.0'	13.3'	S 7°37.7'	10.1'	55.7'
13	342°27.3'	11°30.3'	S 11°53.2'	352°33.3'	13.3'	S 7°27.7'	10.1'	55.7'
14	357°29.8'	26°30.4'	S 11°52.3'	7°05.7'	13.3'	S 7°17.6'	10.1'	55.8'
15	12°32.3'	41°30.4'	S 11°51.4'	21°38.0'	13.3'	S 7°07.4'	10.2'	55.8'
16	27°34.7'	56°30.5'	S 11°50.5'	36°10.3'	13.3'	S 6°57.2'	10.2'	55.8'
17	42°37.2'	71°30.5'	S 11°49.7'	50°42.7'	13.3'	S 6°47.0'	10.3'	55.8'
18	57°39.7'	86°30.6'	S 11°48.8'	65°15.0'	13.3'	S 6°36.7'	10.3'	55.8'
19	72°42.1'	101°30.6'	S 11°47.9'	79°47.4'	13.3'	S 6°26.4'	10.3'	55.9'
20	87°44.6'	116°30.7'	S 11°47.0'	94°19.7'	13.3'	S 6°16.1'	10.4'	55.9'
21	102°47.1'	131°30.7'	S 11°46.1'	108°52.1'	13.3'	S 6°05.7'	10.4'	55.9'
22	117°49.5'	146°30.8'	S 11°45.3'	123°24.4'	13.3'	S 5°55.3'	10.4'	55.9'
23	132°52.0'	161°30.8'	S 11°44.4'	137°56.8'	13.3'	S 5°44.9'	10.5'	55.9'

Sun Feb 18, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 16.2'		SD = 15.3'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	147°54.4'	176°30.8'	S 11°43.5'	152°29.1'	13.3'	S 5°34.4'	10.5'	56.0'
1	162°56.9'	191°30.9'	S 11°42.6'	167°01.5'	13.3'	S 5°23.9'	10.5'	56.0'
2	177°59.4'	206°30.9'	S 11°41.7'	181°33.8'	13.3'	S 5°13.4'	10.6'	56.0'
3	193°01.8'	221°31.0'	S 11°40.9'	196°06.1'	13.3'	S 5°02.8'	10.6'	56.0'
4	208°04.3'	236°31.0'	S 11°40.0'	210°38.5'	13.3'	S 4°52.2'	10.6'	56.0'
5	223°06.8'	251°31.1'	S 11°39.1'	225°10.8'	13.3'	S 4°41.6'	10.7'	56.1'
6	238°09.2'	266°31.2'	S 11°38.2'	239°43.2'	13.3'	S 4°31.0'	10.7'	56.1'
7	253°11.7'	281°31.2'	S 11°37.3'	254°15.5'	13.3'	S 4°20.3'	10.7'	56.1'
8	268°14.2'	296°31.3'	S 11°36.4'	268°47.8'	13.3'	S 4°09.6'	10.7'	56.1'
9	283°16.6'	311°31.3'	S 11°35.6'	283°20.1'	13.3'	S 3°58.8'	10.8'	56.1'
10	298°19.1'	326°31.4'	S 11°34.7'	297°52.4'	13.3'	S 3°48.1'	10.8'	56.1'
11	313°21.6'	341°31.4'	S 11°33.8'	312°24.7'	13.3'	S 3°37.3'	10.8'	56.2'
12	328°24.0'	356°31.5'	S 11°32.9'	326°57.0'	13.3'	S 3°26.5'	10.8'	56.2'
13	343°26.5'	11°31.5'	S 11°32.0'	341°29.3'	13.3'	S 3°15.7'	10.9'	56.2'
14	358°28.9'	26°31.6'	S 11°31.1'	356°01.6'	13.3'	S 3°04.8'	10.9'	56.2'
15	13°31.4'	41°31.6'	S 11°30.2'	10°33.9'	13.3'	S 2°53.9'	10.9'	56.3'
16	28°33.9'	56°31.7'	S 11°29.4'	25°06.2'	13.3'	S 2°43.1'	10.9'	56.3'
17	43°36.3'	71°31.7'	S 11°28.5'	39°38.4'	13.2'	S 2°32.1'	10.9'	56.3'
18	58°38.8'	86°31.8'	S 11°27.6'	54°10.6'	13.2'	S 2°21.2'	10.9'	56.3'
19	73°41.3'	101°31.8'	S 11°26.7'	68°42.9'	13.2'	S 2°10.3'	11.0'	56.3'
20	88°43.7'	116°31.9'	S 11°25.8'	83°15.1'	13.2'	S 1°59.3'	11.0'	56.4'
21	103°46.2'	131°31.9'	S 11°24.9'	97°47.3'	13.2'	S 1°48.3'	11.0'	56.4'
22	118°48.7'	146°32.0'	S 11°24.0'	112°19.5'	13.2'	S 1°37.3'	11.0'	56.4'
23	133°51.1'	161°32.1'	S 11°23.2'	126°51.7'	13.2'	S 1°26.3'	11.0'	56.4'

Mon Feb 19, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 16.2'		SD = 15.5'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	148°53.6'	176°32.1'	S 11°22.3'	141°23.8'	13.1'	S 1°15.3'	11.0'	56.4'
1	163°56.0'	191°32.2'	S 11°21.4'	155°56.0'	13.1'	S 1°04.2'	11.1'	56.5'
2	178°58.5'	206°32.2'	S 11°20.5'	170°28.1'	13.1'	S 0°53.2'	11.1'	56.5'
3	194°01.0'	221°32.3'	S 11°19.6'	185°00.2'	13.1'	S 0°42.1'	11.1'	56.5'
4	209°03.4'	236°32.3'	S 11°18.7'	199°32.3'	13.1'	S 0°31.0'	11.1'	56.5'
5	224°05.9'	251°32.4'	S 11°17.8'	214°04.4'	13.1'	S 0°20.0'	11.1'	56.5'
6	239°08.4'	266°32.5'	S 11°16.9'	228°36.5'	13.0'	S 0°08.9'	11.1'	56.6'
7	254°10.8'	281°32.5'	S 11°16.0'	243°08.5'	13.0'	N 0°02.2'	11.1'	56.6'
8	269°13.3'	296°32.6'	S 11°15.1'	257°40.5'	13.0'	N 0°13.4'	11.1'	56.6'
9	284°15.8'	311°32.6'	S 11°14.3'	272°12.5'	13.0'	N 0°24.5'	11.1'	56.6'
10	299°18.2'	326°32.7'	S 11°13.4'	286°44.5'	13.0'	N 0°35.6'	11.1'	56.6'
11	314°20.7'	341°32.8'	S 11°12.5'	301°16.5'	12.9'	N 0°46.7'	11.1'	56.7'
12	329°23.2'	356°32.8'	S 11°11.6'	315°48.4'	12.9'	N 0°57.8'	11.1'	56.7'
13	344°25.6'	11°32.9'	S 11°10.7'	330°20.3'	12.9'	N 1°09.0'	11.1'	56.7'
14	359°28.1'	26°32.9'	S 11°09.8'	344°52.2'	12.9'	N 1°20.1'	11.1'	56.7'
15	14°30.5'	41°33.0'	S 11°08.9'	359°24.0'	12.8'	N 1°31.2'	11.1'	56.8'
16	29°33.0'	56°33.1'	S 11°08.0'	13°55.9'	12.8'	N 1°42.4'	11.1'	56.8'
17	44°35.5'	71°33.1'	S 11°07.1'	28°27.7'	12.8'	N 1°53.5'	11.1'	56.8'
18	59°37.9'	86°33.2'	S 11°06.2'	42°59.5'	12.8'	N 2°04.7'	11.1'	56.8'
19	74°40.4'	101°33.2'	S 11°05.3'	57°31.2'	12.7'	N 2°15.8'	11.1'	56.8'
20	89°42.9'	116°33.3'	S 11°04.4'	72°02.9'	12.7'	N 2°26.9'	11.1'	56.9'
21	104°45.3'	131°33.4'	S 11°03.5'	86°34.6'	12.7'	N 2°38.0'	11.1'	56.9'
22	119°47.8'	146°33.4'	S 11°02.6'	101°06.3'	12.6'	N 2°49.2'	11.1'	56.9'
23	134°50.3'	161°33.5'	S 11°01.7'	115°37.9'	12.6'	N 3°00.3'	11.1'	56.9'

Tue Feb 20, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 16.2'		SD = 15.6'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	149°52.7'	176°33.6'	S 11°00.9'	130°09.5'	12.6'	N 3°11.4'	11.1'	56.9'
1	164°55.2'	191°33.6'	S 10°60.0'	144°41.1'	12.5'	N 3°22.5'	11.1'	57.0'
2	179°57.6'	206°33.7'	S 10°59.1'	159°12.6'	12.5'	N 3°33.6'	11.1'	57.0'
3	195°00.1'	221°33.7'	S 10°58.2'	173°44.1'	12.5'	N 3°44.6'	11.1'	57.0'
4	210°02.6'	236°33.8'	S 10°57.3'	188°15.6'	12.4'	N 3°55.7'	11.1'	57.0'
5	225°05.0'	251°33.9'	S 10°56.4'	202°47.0'	12.4'	N 4°06.8'	11.0'	57.1'
6	240°07.5'	266°33.9'	S 10°55.5'	217°18.4'	12.4'	N 4°17.8'	11.0'	57.1'
7	255°10.0'	281°34.0'	S 10°54.6'	231°49.8'	12.3'	N 4°28.9'	11.0'	57.1'
8	270°12.4'	296°34.1'	S 10°53.7'	246°21.1'	12.3'	N 4°39.9'	11.0'	57.1'
9	285°14.9'	311°34.1'	S 10°52.8'	260°52.4'	12.2'	N 4°50.9'	11.0'	57.1'
10	300°17.4'	326°34.2'	S 10°51.9'	275°23.7'	12.2'	N 5°01.9'	11.0'	57.2'
11	315°19.8'	341°34.3'	S 10°51.0'	289°54.9'	12.2'	N 5°12.8'	11.0'	57.2'
12	330°22.3'	356°34.3'	S 10°50.1'	304°26.0'	12.1'	N 5°23.8'	10.9'	57.2'
13	345°24.8'	11°34.4'	S 10°49.2'	318°57.2'	12.1'	N 5°34.7'	10.9'	57.2'
14	0°27.2'	26°34.5'	S 10°48.3'	333°28.3'	12.0'	N 5°45.6'	10.9'	57.3'
15	15°29.7'	41°34.5'	S 10°47.4'	347°59.3'	12.0'	N 5°56.5'	10.9'	57.3'
16	30°32.1'	56°34.6'	S 10°46.5'	2°30.3'	12.0'	N 6°07.4'	10.8'	57.3'
17	45°34.6'	71°34.7'	S 10°45.6'	17°01.3'	11.9'	N 6°18.2'	10.8'	57.3'
18	60°37.1'	86°34.7'	S 10°44.7'	31°32.2'	11.9'	N 6°29.1'	10.8'	57.3'
19	75°39.5'	101°34.8'	S 10°43.8'	46°03.0'	11.8'	N 6°39.9'	10.8'	57.4'
20	90°42.0'	116°34.9'	S 10°42.9'	60°33.9'	11.8'	N 6°50.6'	10.7'	57.4'
21	105°44.5'	131°35.0'	S 10°42.0'	75°04.6'	11.7'	N 7°01.4'	10.7'	57.4'
22	120°46.9'	146°35.0'	S 10°41.1'	89°35.4'	11.7'	N 7°12.1'	10.7'	57.4'
23	135°49.4'	161°35.1'	S 10°40.2'	104°06.1'	11.6'	N 7°22.8'	10.7'	57.5'

Wed Feb 21, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 16.2'		SD = 15.8'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	150°51.9'	176°35.2'	S 10°39.3'	118°36.7'	11.6'	N 7°33.5'	10.6'	57.5'
1	165°54.3'	191°35.2'	S 10°38.4'	133°07.3'	11.5'	N 7°44.1'	10.6'	57.5'
2	180°56.8'	206°35.3'	S 10°37.5'	147°37.8'	11.5'	N 7°54.7'	10.6'	57.5'
3	195°59.3'	221°35.4'	S 10°36.6'	162°08.3'	11.4'	N 8°05.3'	10.5'	57.6'
4	211°01.7'	236°35.4'	S 10°35.7'	176°38.7'	11.4'	N 8°15.8'	10.5'	57.6'
5	226°04.2'	251°35.5'	S 10°34.7'	191°09.1'	11.3'	N 8°26.3'	10.5'	57.6'
6	241°06.6'	266°35.6'	S 10°33.8'	205°39.4'	11.3'	N 8°36.7'	10.4'	57.6'
7	256°09.1'	281°35.7'	S 10°32.9'	220°09.7'	11.2'	N 8°47.2'	10.4'	57.6'
8	271°11.6'	296°35.7'	S 10°32.0'	234°39.9'	11.2'	N 8°57.6'	10.3'	57.7'
9	286°14.0'	311°35.8'	S 10°31.1'	249°10.1'	11.1'	N 9°07.9'	10.3'	57.7'
10	301°16.5'	326°35.9'	S 10°30.2'	263°40.2'	11.1'	N 9°18.2'	10.3'	57.7'
11	316°19.0'	341°36.0'	S 10°29.3'	278°10.3'	11.0'	N 9°28.5'	10.2'	57.7'
12	331°21.4'	356°36.0'	S 10°28.4'	292°40.3'	10.9'	N 9°38.7'	10.2'	57.8'
13	346°23.9'	11°36.1'	S 10°27.5'	307°10.2'	10.9'	N 9°48.9'	10.1'	57.8'
14	1°26.4'	26°36.2'	S 10°26.6'	321°40.1'	10.8'	N 9°59.0'	10.1'	57.8'
15	16°28.8'	41°36.3'	S 10°25.7'	336°09.9'	10.8'	N 10°09.1'	10.0'	57.8'
16	31°31.3'	56°36.3'	S 10°24.8'	350°39.7'	10.7'	N 10°19.2'	10.0'	57.9'
17	46°33.7'	71°36.4'	S 10°23.9'	5°09.4'	10.7'	N 10°29.2'	10.0'	57.9'
18	61°36.2'	86°36.5'	S 10°23.0'	19°39.1'	10.6'	N 10°39.1'	9.9'	57.9'
19	76°38.7'	101°36.6'	S 10°22.1'	34°08.7'	10.5'	N 10°49.0'	9.9'	57.9'
20	91°41.1'	116°36.6'	S 10°21.2'	48°38.2'	10.5'	N 10°58.9'	9.8'	57.9'
21	106°43.6'	131°36.7'	S 10°20.2'	63°07.6'	10.4'	N 11°08.7'	9.7'	58.0'
22	121°46.1'	146°36.8'	S 10°19.3'	77°37.1'	10.3'	N 11°18.4'	9.7'	58.0'
23	136°48.5'	161°36.9'	S 10°18.4'	92°06.4'	10.3'	N 11°28.1'	9.6'	58.0'

Thu Feb 22, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 16.2'		SD = 15.9'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	151°51.0'	176°36.9'	S 10°17.5'	106°35.7'	10.2'	N 11°37.7'	9.6'	58.0'
1	166°53.5'	191°37.0'	S 10°16.6'	121°04.9'	10.2'	N 11°47.3'	9.5'	58.1'
2	181°55.9'	206°37.1'	S 10°15.7'	135°34.0'	10.1'	N 11°56.8'	9.5'	58.1'
3	196°58.4'	221°37.2'	S 10°14.8'	150°03.1'	10.0'	N 12°06.3'	9.4'	58.1'
4	212°00.9'	236°37.2'	S 10°13.9'	164°32.2'	10.0'	N 12°15.7'	9.3'	58.1'
5	227°03.3'	251°37.3'	S 10°13.0'	179°01.1'	9.9'	N 12°25.1'	9.3'	58.2'
6	242°05.8'	266°37.4'	S 10°12.1'	193°30.0'	9.8'	N 12°34.3'	9.2'	58.2'
7	257°08.2'	281°37.5'	S 10°11.1'	207°58.8'	9.8'	N 12°43.6'	9.2'	58.2'
8	272°10.7'	296°37.6'	S 10°10.2'	222°27.6'	9.7'	N 12°52.7'	9.1'	58.2'
9	287°13.2'	311°37.6'	S 10°09.3'	236°56.3'	9.6'	N 13°01.8'	9.0'	58.2'
10	302°15.6'	326°37.7'	S 10°08.4'	251°24.9'	9.6'	N 13°10.8'	9.0'	58.3'
11	317°18.1'	341°37.8'	S 10°07.5'	265°53.5'	9.5'	N 13°19.8'	8.9'	58.3'
12	332°20.6'	356°37.9'	S 10°06.6'	280°22.0'	9.4'	N 13°28.7'	8.8'	58.3'
13	347°23.0'	11°38.0'	S 10°05.7'	294°50.4'	9.4'	N 13°37.5'	8.8'	58.3'
14	2°25.5'	26°38.0'	S 10°04.8'	309°18.7'	9.3'	N 13°46.3'	8.7'	58.4'
15	17°28.0'	41°38.1'	S 10°03.8'	323°47.0'	9.2'	N 13°54.9'	8.6'	58.4'
16	32°30.4'	56°38.2'	S 10°02.9'	338°15.2'	9.1'	N 14°03.6'	8.5'	58.4'
17	47°32.9'	71°38.3'	S 10°02.0'	352°43.4'	9.1'	N 14°12.1'	8.5'	58.4'
18	62°35.4'	86°38.4'	S 10°01.1'	7°11.5'	9.0'	N 14°20.5'	8.4'	58.5'
19	77°37.8'	101°38.5'	S 10°00.2'	21°39.5'	8.9'	N 14°28.9'	8.3'	58.5'
20	92°40.3'	116°38.5'	S 9°59.3'	36°07.4'	8.9'	N 14°37.2'	8.2'	58.5'
21	107°42.7'	131°38.6'	S 9°58.4'	50°35.3'	8.8'	N 14°45.5'	8.1'	58.5'
22	122°45.2'	146°38.7'	S 9°57.4'	65°03.1'	8.7'	N 14°53.6'	8.1'	58.6'
23	137°47.7'	161°38.8'	S 9°56.5'	79°30.8'	8.7'	N 15°01.7'	8.0'	58.6'

Fri Feb 23, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 16.2'		SD = 16.1'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	152°50.1'	176°38.9'	S 9°55.6'	93°58.5'	8.6'	N 15°09.7'	7.9'	58.6'
1	167°52.6'	191°39.0'	S 9°54.7'	108°26.0'	8.5'	N 15°17.6'	7.8'	58.6'
2	182°55.1'	206°39.0'	S 9°53.8'	122°53.6'	8.4'	N 15°25.4'	7.7'	58.6'
3	197°57.5'	221°39.1'	S 9°52.9'	137°21.0'	8.4'	N 15°33.1'	7.6'	58.7'
4	212°60.0'	236°39.2'	S 9°51.9'	151°48.4'	8.3'	N 15°40.8'	7.6'	58.7'
5	228°02.5'	251°39.3'	S 9°51.0'	166°15.7'	8.2'	N 15°48.3'	7.5'	58.7'
6	243°04.9'	266°39.4'	S 9°50.1'	180°42.9'	8.2'	N 15°55.8'	7.4'	58.7'
7	258°07.4'	281°39.5'	S 9°49.2'	195°10.1'	8.1'	N 16°03.2'	7.3'	58.8'
8	273°09.8'	296°39.6'	S 9°48.3'	209°37.1'	8.0'	N 16°10.5'	7.2'	58.8'
9	288°12.3'	311°39.6'	S 9°47.4'	224°04.2'	7.9'	N 16°17.6'	7.1'	58.8'
10	303°14.8'	326°39.7'	S 9°46.4'	238°31.1'	7.9'	N 16°24.8'	7.0'	58.8'
11	318°17.2'	341°39.8'	S 9°45.5'	252°58.0'	7.8'	N 16°31.8'	6.9'	58.8'
12	333°19.7'	356°39.9'	S 9°44.6'	267°24.8'	7.7'	N 16°38.7'	6.8'	58.9'
13	348°22.2'	11°40.0'	S 9°43.7'	281°51.5'	7.7'	N 16°45.5'	6.7'	58.9'
14	3°24.6'	26°40.1'	S 9°42.8'	296°18.2'	7.6'	N 16°52.2'	6.6'	58.9'
15	18°27.1'	41°40.2'	S 9°41.8'	310°44.8'	7.5'	N 16°58.8'	6.5'	58.9'
16	33°29.6'	56°40.3'	S 9°40.9'	325°11.3'	7.5'	N 17°05.4'	6.4'	59.0'
17	48°32.0'	71°40.3'	S 9°40.0'	339°37.8'	7.4'	N 17°11.8'	6.3'	59.0'
18	63°34.5'	86°40.4'	S 9°39.1'	354°04.1'	7.3'	N 17°18.1'	6.2'	59.0'
19	78°37.0'	101°40.5'	S 9°38.2'	8°30.5'	7.2'	N 17°24.3'	6.1'	59.0'
20	93°39.4'	116°40.6'	S 9°37.2'	22°56.7'	7.2'	N 17°30.4'	6.0'	59.1'
21	108°41.9'	131°40.7'	S 9°36.3'	37°22.9'	7.1'	N 17°36.4'	5.9'	59.1'
22	123°44.3'	146°40.8'	S 9°35.4'	51°49.0'	7.0'	N 17°42.3'	5.8'	59.1'
23	138°46.8'	161°40.9'	S 9°34.5'	66°15.1'	7.0'	N 17°48.1'	5.7'	59.1'

Sat Feb 24, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 16.2'		SD = 16.2'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	153°49.3'	176°41.0'	S 9°33.6'	80°41.0'	6.9'	N 17°53.8'	5.6'	59.1'
1	168°51.7'	191°41.1'	S 9°32.6'	95°06.9'	6.8'	N 17°59.4'	5.5'	59.2'
2	183°54.2'	206°41.1'	S 9°31.7'	109°32.8'	6.8'	N 18°04.9'	5.4'	59.2'
3	198°56.7'	221°41.2'	S 9°30.8'	123°58.6'	6.7'	N 18°10.2'	5.2'	59.2'
4	213°59.1'	236°41.3'	S 9°29.9'	138°24.3'	6.7'	N 18°15.5'	5.1'	59.2'
5	229°01.6'	251°41.4'	S 9°28.9'	152°49.9'	6.6'	N 18°20.6'	5.0'	59.2'
6	244°04.1'	266°41.5'	S 9°28.0'	167°15.5'	6.5'	N 18°25.6'	4.9'	59.3'
7	259°06.5'	281°41.6'	S 9°27.1'	181°41.1'	6.5'	N 18°30.5'	4.8'	59.3'
8	274°09.0'	296°41.7'	S 9°26.2'	196°06.5'	6.4'	N 18°35.3'	4.7'	59.3'
9	289°11.5'	311°41.8'	S 9°25.3'	210°31.9'	6.3'	N 18°40.0'	4.6'	59.3'
10	304°13.9'	326°41.9'	S 9°24.3'	224°57.3'	6.3'	N 18°44.5'	4.4'	59.3'
11	319°16.4'	341°42.0'	S 9°23.4'	239°22.6'	6.2'	N 18°49.0'	4.3'	59.4'
12	334°18.8'	356°42.1'	S 9°22.5'	253°47.8'	6.2'	N 18°53.3'	4.2'	59.4'
13	349°21.3'	11°42.2'	S 9°21.6'	268°12.9'	6.1'	N 18°57.5'	4.1'	59.4'
14	4°23.8'	26°42.3'	S 9°20.6'	282°38.0'	6.0'	N 19°01.5'	3.9'	59.4'
15	19°26.2'	41°42.4'	S 9°19.7'	297°03.1'	6.0'	N 19°05.5'	3.8'	59.4'
16	34°28.7'	56°42.4'	S 9°18.8'	311°28.1'	5.9'	N 19°09.3'	3.7'	59.5'
17	49°31.2'	71°42.5'	S 9°17.9'	325°53.0'	5.9'	N 19°13.0'	3.6'	59.5'
18	64°33.6'	86°42.6'	S 9°16.9'	340°17.9'	5.8'	N 19°16.6'	3.4'	59.5'
19	79°36.1'	101°42.7'	S 9°16.0'	354°42.7'	5.8'	N 19°20.0'	3.3'	59.5'
20	94°38.6'	116°42.8'	S 9°15.1'	9°07.5'	5.7'	N 19°23.3'	3.2'	59.5'
21	109°41.0'	131°42.9'	S 9°14.1'	23°32.3'	5.7'	N 19°26.5'	3.1'	59.6'
22	124°43.5'	146°43.0'	S 9°13.2'	37°56.9'	5.6'	N 19°29.6'	2.9'	59.6'
23	139°46.0'	161°43.1'	S 9°12.3'	52°21.6'	5.6'	N 19°32.5'	2.8'	59.6'

## Sun Feb 25, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 16.2'		SD = 16.3'				
		GHA	dec	GHA	v	dec	d	HP
0	154°48.4'	176°43.2'	S 9°11.4'	66°46.1'	5.5'	N 19°35.3'	2.7'	59.6'
1	169°50.9'	191°43.3'	S 9°10.4'	81°10.7'	5.5'	N 19°38.0'	2.5'	59.6'
2	184°53.3'	206°43.4'	S 9°09.5'	95°35.2'	5.4'	N 19°40.6'	2.4'	59.7'
3	199°55.8'	221°43.5'	S 9°08.6'	109°59.6'	5.4'	N 19°43.0'	2.3'	59.7'
4	214°58.3'	236°43.6'	S 9°07.6'	124°24.0'	5.4'	N 19°45.3'	2.1'	59.7'
5	230°00.7'	251°43.7'	S 9°06.7'	138°48.4'	5.3'	N 19°47.4'	2.0'	59.7'
6	245°03.2'	266°43.8'	S 9°05.8'	153°12.7'	5.3'	N 19°49.4'	1.9'	59.7'
7	260°05.7'	281°43.9'	S 9°04.9'	167°37.0'	5.2'	N 19°51.3'	1.7'	59.7'
8	275°08.1'	296°44.0'	S 9°03.9'	182°01.2'	5.2'	N 19°53.1'	1.6'	59.8'
9	290°10.6'	311°44.1'	S 9°03.0'	196°25.4'	5.2'	N 19°54.7'	1.5'	59.8'
10	305°13.1'	326°44.2'	S 9°02.1'	210°49.6'	5.1'	N 19°56.2'	1.3'	59.8'
11	320°15.5'	341°44.3'	S 9°01.1'	225°13.7'	5.1'	N 19°57.5'	1.2'	59.8'
12	335°18.0'	356°44.4'	S 9°00.2'	239°37.8'	5.1'	N 19°58.7'	1.1'	59.8'
13	350°20.4'	11°44.5'	S 8°59.3'	254°01.8'	5.0'	N 19°59.8'	0.9'	59.8'
14	5°22.9'	26°44.6'	S 8°58.4'	268°25.9'	5.0'	N 20°00.7'	0.8'	59.9'
15	20°25.4'	41°44.7'	S 8°57.4'	282°49.9'	5.0'	N 20°01.5'	0.7'	59.9'
16	35°27.8'	56°44.8'	S 8°56.5'	297°13.9'	4.9'	N 20°02.1'	0.5'	59.9'
17	50°30.3'	71°44.9'	S 8°55.6'	311°37.8'	4.9'	N 20°02.7'	0.4'	59.9'
18	65°32.8'	86°45.0'	S 8°54.6'	326°01.7'	4.9'	N 20°03.0'	0.2'	59.9'
19	80°35.2'	101°45.1'	S 8°53.7'	340°25.6'	4.9'	N 20°03.3'	0.1'	59.9'
20	95°37.7'	116°45.2'	S 8°52.8'	354°49.5'	4.9'	N 20°03.4'	0.0'	59.9'
21	110°40.2'	131°45.3'	S 8°51.8'	9°13.4'	4.8'	N 20°03.3'	0.2'	60.0'
22	125°42.6'	146°45.4'	S 8°50.9'	23°37.2'	4.8'	N 20°03.1'	0.3'	60.0'
23	140°45.1'	161°45.5'	S 8°50.0'	38°01.0'	4.8'	N 20°02.8'	0.5'	60.0'

## Mon Feb 26, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 16.2'		SD = 16.4'				
		GHA	dec	GHA	v	dec	d	HP
0	155°47.6'	176°45.6'	S 8°49.0'	52°24.8'	4.8'	N 20°02.4'	0.6'	60.0'
1	170°50.0'	191°45.7'	S 8°48.1'	66°48.6'	4.8'	N 20°01.8'	0.7'	60.0'
2	185°52.5'	206°45.8'	S 8°47.2'	81°12.4'	4.8'	N 20°01.0'	0.9'	60.0'
3	200°54.9'	221°45.9'	S 8°46.2'	95°36.1'	4.8'	N 20°00.1'	1.0'	60.0'
4	215°57.4'	236°46.0'	S 8°45.3'	109°59.9'	4.7'	N 19°59.1'	1.2'	60.0'
5	230°59.9'	251°46.1'	S 8°44.4'	124°23.6'	4.7'	N 19°57.9'	1.3'	60.1'
6	246°02.3'	266°46.2'	S 8°43.4'	138°47.4'	4.7'	N 19°56.6'	1.4'	60.1'
7	261°04.8'	281°46.3'	S 8°42.5'	153°11.1'	4.7'	N 19°55.2'	1.6'	60.1'
8	276°07.3'	296°46.4'	S 8°41.6'	167°34.8'	4.7'	N 19°53.6'	1.7'	60.1'
9	291°09.7'	311°46.6'	S 8°40.6'	181°58.5'	4.7'	N 19°51.9'	1.9'	60.1'
10	306°12.2'	326°46.7'	S 8°39.7'	196°22.3'	4.7'	N 19°50.0'	2.0'	60.1'
11	321°14.7'	341°46.8'	S 8°38.7'	210°46.0'	4.7'	N 19°48.0'	2.1'	60.1'
12	336°17.1'	356°46.9'	S 8°37.8'	225°09.7'	4.7'	N 19°45.8'	2.3'	60.1'
13	351°19.6'	11°47.0'	S 8°36.9'	239°33.4'	4.7'	N 19°43.6'	2.4'	60.1'
14	6°22.1'	26°47.1'	S 8°35.9'	253°57.1'	4.7'	N 19°41.1'	2.6'	60.1'
15	21°24.5'	41°47.2'	S 8°35.0'	268°20.9'	4.7'	N 19°38.6'	2.7'	60.2'
16	36°27.0'	56°47.3'	S 8°34.1'	282°44.6'	4.7'	N 19°35.9'	2.8'	60.2'
17	51°29.4'	71°47.4'	S 8°33.1'	297°08.4'	4.8'	N 19°33.0'	3.0'	60.2'
18	66°31.9'	86°47.5'	S 8°32.2'	311°32.1'	4.8'	N 19°30.0'	3.1'	60.2'
19	81°34.4'	101°47.6'	S 8°31.3'	325°55.9'	4.8'	N 19°26.9'	3.3'	60.2'
20	96°36.8'	116°47.7'	S 8°30.3'	340°19.7'	4.8'	N 19°23.6'	3.4'	60.2'
21	111°39.3'	131°47.8'	S 8°29.4'	354°43.5'	4.8'	N 19°20.2'	3.5'	60.2'
22	126°41.8'	146°47.9'	S 8°28.4'	9°07.3'	4.8'	N 19°16.7'	3.7'	60.2'
23	141°44.2'	161°48.0'	S 8°27.5'	23°31.1'	4.9'	N 19°13.0'	3.8'	60.2'

Tue Feb 27, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 16.1'		SD = 16.4'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	156°46.7'	176°48.2'	S 8°26.6'	37°55.0'	4.9'	N 19°09.2'	3.9'	60.2'
1	171°49.2'	191°48.3'	S 8°25.6'	52°18.9'	4.9'	N 19°05.3'	4.1'	60.2'
2	186°51.6'	206°48.4'	S 8°24.7'	66°42.7'	4.9'	N 19°01.2'	4.2'	60.2'
3	201°54.1'	221°48.5'	S 8°23.7'	81°06.7'	4.9'	N 18°57.0'	4.3'	60.2'
4	216°56.6'	236°48.6'	S 8°22.8'	95°30.6'	5.0'	N 18°52.7'	4.5'	60.2'
5	231°59.0'	251°48.7'	S 8°21.9'	109°54.6'	5.0'	N 18°48.2'	4.6'	60.2'
6	247°01.5'	266°48.8'	S 8°20.9'	124°18.6'	5.0'	N 18°43.6'	4.7'	60.2'
7	262°03.9'	281°48.9'	S 8°20.0'	138°42.6'	5.1'	N 18°38.8'	4.9'	60.2'
8	277°06.4'	296°49.0'	S 8°19.0'	153°06.6'	5.1'	N 18°33.9'	5.0'	60.2'
9	292°08.9'	311°49.1'	S 8°18.1'	167°30.7'	5.1'	N 18°28.9'	5.1'	60.2'
10	307°11.3'	326°49.3'	S 8°17.2'	181°54.9'	5.2'	N 18°23.8'	5.3'	60.2'
11	322°13.8'	341°49.4'	S 8°16.2'	196°19.0'	5.2'	N 18°18.5'	5.4'	60.2'
12	337°16.3'	356°49.5'	S 8°15.3'	210°43.2'	5.2'	N 18°13.2'	5.5'	60.2'
13	352°18.7'	11°49.6'	S 8°14.3'	225°07.4'	5.3'	N 18°07.6'	5.6'	60.2'
14	7°21.2'	26°49.7'	S 8°13.4'	239°31.7'	5.3'	N 18°02.0'	5.8'	60.2'
15	22°23.7'	41°49.8'	S 8°12.5'	253°56.0'	5.3'	N 17°56.2'	5.9'	60.2'
16	37°26.1'	56°49.9'	S 8°11.5'	268°20.3'	5.4'	N 17°50.3'	6.0'	60.2'
17	52°28.6'	71°50.0'	S 8°10.6'	282°44.7'	5.4'	N 17°44.3'	6.1'	60.2'
18	67°31.0'	86°50.2'	S 8°09.6'	297°09.1'	5.5'	N 17°38.2'	6.3'	60.2'
19	82°33.5'	101°50.3'	S 8°08.7'	311°33.6'	5.5'	N 17°31.9'	6.4'	60.2'
20	97°36.0'	116°50.4'	S 8°07.8'	325°58.1'	5.6'	N 17°25.5'	6.5'	60.2'
21	112°38.4'	131°50.5'	S 8°06.8'	340°22.6'	5.6'	N 17°19.0'	6.6'	60.2'
22	127°40.9'	146°50.6'	S 8°05.9'	354°47.2'	5.6'	N 17°12.4'	6.7'	60.2'
23	142°43.4'	161°50.7'	S 8°04.9'	9°11.9'	5.7'	N 17°05.7'	6.9'	60.2'

Wed Feb 28, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 16.1'		SD = 16.4'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	157°45.8'	176°50.8'	S 8°04.0'	23°36.6'	5.7'	N 16°58.8'	7.0'	60.2'
1	172°48.3'	191°51.0'	S 8°03.0'	38°01.3'	5.8'	N 16°51.8'	7.1'	60.2'
2	187°50.8'	206°51.1'	S 8°02.1'	52°26.1'	5.8'	N 16°44.7'	7.2'	60.2'
3	202°53.2'	221°51.2'	S 8°01.1'	66°50.9'	5.9'	N 16°37.5'	7.3'	60.2'
4	217°55.7'	236°51.3'	S 8°00.2'	81°15.8'	5.9'	N 16°30.2'	7.4'	60.2'
5	232°58.2'	251°51.4'	S 7°59.3'	95°40.8'	6.0'	N 16°22.8'	7.5'	60.2'
6	248°00.6'	266°51.5'	S 7°58.3'	110°05.8'	6.1'	N 16°15.3'	7.6'	60.2'
7	263°03.1'	281°51.7'	S 7°57.4'	124°30.8'	6.1'	N 16°07.6'	7.7'	60.2'
8	278°05.5'	296°51.8'	S 7°56.4'	138°55.9'	6.2'	N 15°59.9'	7.9'	60.2'
9	293°08.0'	311°51.9'	S 7°55.5'	153°21.1'	6.2'	N 15°52.0'	8.0'	60.2'
10	308°10.5'	326°52.0'	S 7°54.5'	167°46.3'	6.3'	N 15°44.1'	8.1'	60.2'
11	323°12.9'	341°52.1'	S 7°53.6'	182°11.6'	6.3'	N 15°36.0'	8.2'	60.2'
12	338°15.4'	356°52.2'	S 7°52.6'	196°36.9'	6.4'	N 15°27.9'	8.3'	60.1'
13	353°17.9'	11°52.4'	S 7°51.7'	211°02.3'	6.4'	N 15°19.6'	8.4'	60.1'
14	8°20.3'	26°52.5'	S 7°50.7'	225°27.7'	6.5'	N 15°11.2'	8.5'	60.1'
15	23°22.8'	41°52.6'	S 7°49.8'	239°53.2'	6.6'	N 15°02.8'	8.6'	60.1'
16	38°25.3'	56°52.7'	S 7°48.9'	254°18.8'	6.6'	N 14°54.2'	8.7'	60.1'
17	53°27.7'	71°52.8'	S 7°47.9'	268°44.4'	6.7'	N 14°45.5'	8.8'	60.1'
18	68°30.2'	86°52.9'	S 7°47.0'	283°10.1'	6.7'	N 14°36.8'	8.8'	60.1'
19	83°32.7'	101°53.1'	S 7°46.0'	297°35.9'	6.8'	N 14°27.9'	8.9'	60.1'
20	98°35.1'	116°53.2'	S 7°45.1'	312°01.7'	6.9'	N 14°19.0'	9.0'	60.1'
21	113°37.6'	131°53.3'	S 7°44.1'	326°27.5'	6.9'	N 14°10.0'	9.1'	60.1'
22	128°40.0'	146°53.4'	S 7°43.2'	340°53.5'	7.0'	N 14°00.8'	9.2'	60.0'
23	143°42.5'	161°53.5'	S 7°42.2'	355°19.5'	7.1'	N 13°51.6'	9.3'	60.0'