

Mon Jan 1, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.2' SD = 16.3'		SD = 16.8'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	100°35.8'	179°10.0'	S 23°01.1'	16°05.7'	3.2'	N 19°19.2'	3.6'	61.4'
1	115°38.2'	194°09.7'	S 23°00.9'	30°27.9'	3.2'	N 19°22.7'	3.4'	61.4'
2	130°40.7'	209°09.5'	S 23°00.7'	44°50.1'	3.1'	N 19°26.2'	3.3'	61.4'
3	145°43.2'	224°09.2'	S 23°00.5'	59°12.2'	3.1'	N 19°29.5'	3.1'	61.4'
4	160°45.6'	239°08.9'	S 23°00.3'	73°34.3'	3.1'	N 19°32.6'	3.0'	61.4'
5	175°48.1'	254°08.6'	S 23°00.1'	87°56.4'	3.0'	N 19°35.6'	2.8'	61.4'
6	190°50.6'	269°08.3'	S 22°59.9'	102°18.4'	3.0'	N 19°38.4'	2.7'	61.4'
7	205°53.0'	284°08.0'	S 22°59.7'	116°40.4'	2.9'	N 19°41.1'	2.5'	61.4'
8	220°55.5'	299°07.7'	S 22°59.5'	131°02.3'	2.9'	N 19°43.6'	2.4'	61.4'
9	235°58.0'	314°07.4'	S 22°59.3'	145°24.2'	2.9'	N 19°46.0'	2.2'	61.5'
10	251°00.4'	329°07.1'	S 22°59.1'	159°46.1'	2.9'	N 19°48.2'	2.1'	61.5'
11	266°02.9'	344°06.8'	S 22°58.9'	174°08.0'	2.8'	N 19°50.3'	1.9'	61.5'
12	281°05.3'	359°06.5'	S 22°58.7'	188°29.8'	2.8'	N 19°52.3'	1.8'	61.5'
13	296°07.8'	14°06.2'	S 22°58.5'	202°51.6'	2.8'	N 19°54.0'	1.6'	61.5'
14	311°10.3'	29°05.9'	S 22°58.3'	217°13.4'	2.8'	N 19°55.7'	1.5'	61.5'
15	326°12.7'	44°05.6'	S 22°58.0'	231°35.1'	2.7'	N 19°57.1'	1.3'	61.5'
16	341°15.2'	59°05.3'	S 22°57.8'	245°56.9'	2.7'	N 19°58.4'	1.2'	61.5'
17	356°17.7'	74°05.1'	S 22°57.6'	260°18.6'	2.7'	N 19°59.6'	1.0'	61.5'
18	11°20.1'	89°04.8'	S 22°57.4'	274°40.3'	2.7'	N 20°00.6'	0.9'	61.5'
19	26°22.6'	104°04.5'	S 22°57.2'	289°02.0'	2.7'	N 20°01.5'	0.7'	61.5'
20	41°25.1'	119°04.2'	S 22°57.0'	303°23.7'	2.7'	N 20°02.2'	0.5'	61.5'
21	56°27.5'	134°03.9'	S 22°56.8'	317°45.4'	2.7'	N 20°02.7'	0.4'	61.5'
22	71°30.0'	149°03.6'	S 22°56.5'	332°07.0'	2.7'	N 20°03.1'	0.2'	61.5'
23	86°32.5'	164°03.3'	S 22°56.3'	346°28.7'	2.7'	N 20°03.3'	0.1'	61.5'

Tue Jan 2, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.2' SD = 16.3'		SD = 16.8'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	101°34.9'	179°03.0'	S 22°56.1'	0°50.4'	2.7'	N 20°03.4'	0.1'	61.5'
1	116°37.4'	194°02.7'	S 22°55.9'	15°12.1'	2.7'	N 20°03.3'	0.2'	61.5'
2	131°39.8'	209°02.4'	S 22°55.7'	29°33.8'	2.7'	N 20°03.1'	0.4'	61.5'
3	146°42.3'	224°02.1'	S 22°55.4'	43°55.4'	2.7'	N 20°02.7'	0.5'	61.5'
4	161°44.8'	239°01.8'	S 22°55.2'	58°17.1'	2.7'	N 20°02.1'	0.7'	61.5'
5	176°47.2'	254°01.6'	S 22°55.0'	72°38.8'	2.7'	N 20°01.4'	0.9'	61.5'
6	191°49.7'	269°01.3'	S 22°54.8'	87°00.6'	2.7'	N 20°00.6'	1.0'	61.5'
7	206°52.2'	284°01.0'	S 22°54.5'	101°22.3'	2.7'	N 19°59.5'	1.2'	61.5'
8	221°54.6'	299°00.7'	S 22°54.3'	115°44.0'	2.8'	N 19°58.4'	1.3'	61.5'
9	236°57.1'	314°00.4'	S 22°54.1'	130°05.8'	2.8'	N 19°57.1'	1.5'	61.4'
10	251°59.6'	329°00.1'	S 22°53.9'	144°27.6'	2.8'	N 19°55.6'	1.6'	61.4'
11	267°02.0'	343°59.8'	S 22°53.6'	158°49.4'	2.8'	N 19°53.9'	1.8'	61.4'
12	282°04.5'	358°59.5'	S 22°53.4'	173°11.2'	2.9'	N 19°52.2'	1.9'	61.4'
13	297°07.0'	13°59.2'	S 22°53.2'	187°33.1'	2.9'	N 19°50.2'	2.1'	61.4'
14	312°09.4'	28°59.0'	S 22°52.9'	201°55.0'	2.9'	N 19°48.1'	2.2'	61.4'
15	327°11.9'	43°58.7'	S 22°52.7'	216°16.9'	3.0'	N 19°45.9'	2.4'	61.4'
16	342°14.3'	58°58.4'	S 22°52.5'	230°38.9'	3.0'	N 19°43.5'	2.5'	61.4'
17	357°16.8'	73°58.1'	S 22°52.2'	245°00.9'	3.0'	N 19°41.0'	2.7'	61.4'
18	12°19.3'	88°57.8'	S 22°52.0'	259°22.9'	3.1'	N 19°38.3'	2.8'	61.4'
19	27°21.7'	103°57.5'	S 22°51.8'	273°45.0'	3.1'	N 19°35.4'	3.0'	61.3'
20	42°24.2'	118°57.2'	S 22°51.5'	288°07.1'	3.2'	N 19°32.5'	3.1'	61.3'
21	57°26.7'	133°56.9'	S 22°51.3'	302°29.3'	3.2'	N 19°29.3'	3.3'	61.3'
22	72°29.1'	148°56.6'	S 22°51.1'	316°51.5'	3.3'	N 19°26.0'	3.4'	61.3'
23	87°31.6'	163°56.4'	S 22°50.8'	331°13.8'	3.3'	N 19°22.6'	3.6'	61.3'

Wed Jan 3, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.2' SD = 16.3'		SD = 16.7'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	102°34.1'	178°56.1'	S 22°50.6'	345°36.1'	3.4'	N 19°19.0'	3.7'	61.3'
1	117°36.5'	193°55.8'	S 22°50.4'	359°58.4'	3.4'	N 19°15.3'	3.9'	61.3'
2	132°39.0'	208°55.5'	S 22°50.1'	14°20.8'	3.5'	N 19°11.5'	4.0'	61.2'
3	147°41.5'	223°55.2'	S 22°49.9'	28°43.3'	3.5'	N 19°07.5'	4.1'	61.2'
4	162°43.9'	238°54.9'	S 22°49.6'	43°05.8'	3.6'	N 19°03.3'	4.3'	61.2'
5	177°46.4'	253°54.6'	S 22°49.4'	57°28.4'	3.6'	N 18°59.0'	4.4'	61.2'
6	192°48.8'	268°54.3'	S 22°49.1'	71°51.0'	3.7'	N 18°54.6'	4.6'	61.2'
7	207°51.3'	283°54.1'	S 22°48.9'	86°13.8'	3.8'	N 18°50.1'	4.7'	61.1'
8	222°53.8'	298°53.8'	S 22°48.7'	100°36.5'	3.8'	N 18°45.4'	4.8'	61.1'
9	237°56.2'	313°53.5'	S 22°48.4'	114°59.3'	3.9'	N 18°40.5'	5.0'	61.1'
10	252°58.7'	328°53.2'	S 22°48.2'	129°22.2'	4.0'	N 18°35.6'	5.1'	61.1'
11	268°01.2'	343°52.9'	S 22°47.9'	143°45.2'	4.0'	N 18°30.5'	5.2'	61.1'
12	283°03.6'	358°52.6'	S 22°47.7'	158°08.2'	4.1'	N 18°25.2'	5.4'	61.0'
13	298°06.1'	13°52.3'	S 22°47.4'	172°31.4'	4.2'	N 18°19.9'	5.5'	61.0'
14	313°08.6'	28°52.1'	S 22°47.2'	186°54.5'	4.3'	N 18°14.4'	5.6'	61.0'
15	328°11.0'	43°51.8'	S 22°46.9'	201°17.8'	4.3'	N 18°08.8'	5.7'	61.0'
16	343°13.5'	58°51.5'	S 22°46.7'	215°41.1'	4.4'	N 18°03.0'	5.9'	60.9'
17	358°16.0'	73°51.2'	S 22°46.4'	230°04.5'	4.5'	N 17°57.1'	6.0'	60.9'
18	13°18.4'	88°50.9'	S 22°46.2'	244°28.0'	4.6'	N 17°51.1'	6.1'	60.9'
19	28°20.9'	103°50.6'	S 22°45.9'	258°51.5'	4.6'	N 17°45.0'	6.2'	60.9'
20	43°23.3'	118°50.3'	S 22°45.7'	273°15.2'	4.7'	N 17°38.8'	6.4'	60.8'
21	58°25.8'	133°50.1'	S 22°45.4'	287°38.9'	4.8'	N 17°32.4'	6.5'	60.8'
22	73°28.3'	148°49.8'	S 22°45.1'	302°02.7'	4.9'	N 17°25.9'	6.6'	60.8'
23	88°30.7'	163°49.5'	S 22°44.9'	316°26.6'	5.0'	N 17°19.3'	6.7'	60.8'

Thu Jan 4, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.3' SD = 16.3'		SD = 16.5'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	103°33.2'	178°49.2'	S 22°44.6'	330°50.5'	5.0'	N 17°12.6'	6.8'	60.7'
1	118°35.7'	193°48.9'	S 22°44.4'	345°14.6'	5.1'	N 17°05.8'	6.9'	60.7'
2	133°38.1'	208°48.6'	S 22°44.1'	359°38.7'	5.2'	N 16°58.8'	7.1'	60.7'
3	148°40.6'	223°48.4'	S 22°43.9'	14°02.9'	5.3'	N 16°51.8'	7.2'	60.6'
4	163°43.1'	238°48.1'	S 22°43.6'	28°27.2'	5.4'	N 16°44.6'	7.3'	60.6'
5	178°45.5'	253°47.8'	S 22°43.3'	42°51.6'	5.5'	N 16°37.3'	7.4'	60.6'
6	193°48.0'	268°47.5'	S 22°43.1'	57°16.1'	5.6'	N 16°29.9'	7.5'	60.6'
7	208°50.5'	283°47.2'	S 22°42.8'	71°40.7'	5.7'	N 16°22.5'	7.6'	60.5'
8	223°52.9'	298°46.9'	S 22°42.5'	86°05.3'	5.7'	N 16°14.9'	7.7'	60.5'
9	238°55.4'	313°46.7'	S 22°42.3'	100°30.1'	5.8'	N 16°07.2'	7.8'	60.5'
10	253°57.8'	328°46.4'	S 22°42.0'	114°54.9'	5.9'	N 15°59.4'	7.9'	60.4'
11	269°00.3'	343°46.1'	S 22°41.8'	129°19.9'	6.0'	N 15°51.5'	8.0'	60.4'
12	284°02.8'	358°45.8'	S 22°41.5'	143°44.9'	6.1'	N 15°43.5'	8.1'	60.4'
13	299°05.2'	13°45.5'	S 22°41.2'	158°10.0'	6.2'	N 15°35.4'	8.2'	60.3'
14	314°07.7'	28°45.3'	S 22°40.9'	172°35.2'	6.3'	N 15°27.2'	8.3'	60.3'
15	329°10.2'	43°45.0'	S 22°40.7'	187°00.5'	6.4'	N 15°18.9'	8.4'	60.3'
16	344°12.6'	58°44.7'	S 22°40.4'	201°25.9'	6.5'	N 15°10.5'	8.5'	60.2'
17	359°15.1'	73°44.4'	S 22°40.1'	215°51.4'	6.6'	N 15°02.1'	8.6'	60.2'
18	14°17.6'	88°44.1'	S 22°39.9'	230°16.9'	6.7'	N 14°53.5'	8.6'	60.2'
19	29°20.0'	103°43.9'	S 22°39.6'	244°42.6'	6.8'	N 14°44.9'	8.7'	60.1'
20	44°22.5'	118°43.6'	S 22°39.3'	259°08.4'	6.9'	N 14°36.1'	8.8'	60.1'
21	59°24.9'	133°43.3'	S 22°39.0'	273°34.2'	7.0'	N 14°27.3'	8.9'	60.1'
22	74°27.4'	148°43.0'	S 22°38.8'	288°00.2'	7.0'	N 14°18.4'	9.0'	60.0'
23	89°29.9'	163°42.7'	S 22°38.5'	302°26.2'	7.1'	N 14°09.5'	9.1'	60.0'

Fri Jan 5, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.3' SD = 16.3'		SD = 16.2'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	104°32.3'	178°42.5'	S 22°38.2'	316°52.4'	7.2'	N 14°00.4'	9.1'	60.0'
1	119°34.8'	193°42.2'	S 22°37.9'	331°18.6'	7.3'	N 13°51.3'	9.2'	59.9'
2	134°37.3'	208°41.9'	S 22°37.7'	345°45.0'	7.4'	N 13°42.1'	9.3'	59.9'
3	149°39.7'	223°41.6'	S 22°37.4'	0°11.4'	7.5'	N 13°32.8'	9.4'	59.8'
4	164°42.2'	238°41.3'	S 22°37.1'	14°37.9'	7.6'	N 13°23.4'	9.4'	59.8'
5	179°44.7'	253°41.1'	S 22°36.8'	29°04.5'	7.7'	N 13°14.0'	9.5'	59.8'
6	194°47.1'	268°40.8'	S 22°36.6'	43°31.2'	7.8'	N 13°04.5'	9.6'	59.7'
7	209°49.6'	283°40.5'	S 22°36.3'	57°58.0'	7.9'	N 12°54.9'	9.6'	59.7'
8	224°52.1'	298°40.2'	S 22°36.0'	72°24.9'	8.0'	N 12°45.3'	9.7'	59.7'
9	239°54.5'	313°39.9'	S 22°35.7'	86°51.9'	8.1'	N 12°35.6'	9.8'	59.6'
10	254°57.0'	328°39.7'	S 22°35.4'	101°19.0'	8.2'	N 12°25.8'	9.8'	59.6'
11	269°59.4'	343°39.4'	S 22°35.1'	115°46.2'	8.3'	N 12°16.0'	9.9'	59.5'
12	285°01.9'	358°39.1'	S 22°34.9'	130°13.4'	8.4'	N 12°06.1'	10.0'	59.5'
13	300°04.4'	13°38.8'	S 22°34.6'	144°40.8'	8.4'	N 11°56.1'	10.0'	59.5'
14	315°06.8'	28°38.6'	S 22°34.3'	159°08.2'	8.5'	N 11°46.1'	10.1'	59.4'
15	330°09.3'	43°38.3'	S 22°34.0'	173°35.8'	8.6'	N 11°36.1'	10.1'	59.4'
16	345°11.8'	58°38.0'	S 22°33.7'	188°03.4'	8.7'	N 11°25.9'	10.2'	59.3'
17	0°14.2'	73°37.7'	S 22°33.4'	202°31.1'	8.8'	N 11°15.8'	10.2'	59.3'
18	15°16.7'	88°37.5'	S 22°33.1'	216°58.9'	8.9'	N 11°05.5'	10.3'	59.3'
19	30°19.2'	103°37.2'	S 22°32.8'	231°26.8'	9.0'	N 10°55.3'	10.3'	59.2'
20	45°21.6'	118°36.9'	S 22°32.5'	245°54.8'	9.1'	N 10°44.9'	10.4'	59.2'
21	60°24.1'	133°36.6'	S 22°32.2'	260°22.9'	9.2'	N 10°34.6'	10.4'	59.1'
22	75°26.6'	148°36.4'	S 22°32.0'	274°51.0'	9.3'	N 10°24.1'	10.5'	59.1'
23	90°29.0'	163°36.1'	S 22°31.7'	289°19.3'	9.3'	N 10°13.7'	10.5'	59.1'

Sat Jan 6, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.3' SD = 16.3'		SD = 16.0'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	105°31.5'	178°35.8'	S 22°31.4'	303°47.6'	9.4'	N 10°03.1'	10.6'	59.0'
1	120°33.9'	193°35.5'	S 22°31.1'	318°16.1'	9.5'	N 9°52.6'	10.6'	59.0'
2	135°36.4'	208°35.3'	S 22°30.8'	332°44.6'	9.6'	N 9°42.0'	10.6'	58.9'
3	150°38.9'	223°35.0'	S 22°30.5'	347°13.2'	9.7'	N 9°31.4'	10.7'	58.9'
4	165°41.3'	238°34.7'	S 22°30.2'	1°41.8'	9.8'	N 9°20.7'	10.7'	58.9'
5	180°43.8'	253°34.4'	S 22°29.9'	16°10.6'	9.8'	N 9°10.0'	10.8'	58.8'
6	195°46.3'	268°34.2'	S 22°29.6'	30°39.4'	9.9'	N 8°59.2'	10.8'	58.8'
7	210°48.7'	283°33.9'	S 22°29.3'	45°08.4'	10.0'	N 8°48.4'	10.8'	58.7'
8	225°51.2'	298°33.6'	S 22°29.0'	59°37.4'	10.1'	N 8°37.6'	10.9'	58.7'
9	240°53.7'	313°33.3'	S 22°28.7'	74°06.5'	10.2'	N 8°26.8'	10.9'	58.7'
10	255°56.1'	328°33.1'	S 22°28.4'	88°35.6'	10.2'	N 8°15.9'	10.9'	58.6'
11	270°58.6'	343°32.8'	S 22°28.1'	103°04.9'	10.3'	N 8°05.0'	10.9'	58.6'
12	286°01.0'	358°32.5'	S 22°27.8'	117°34.2'	10.4'	N 7°54.0'	11.0'	58.5'
13	301°03.5'	13°32.2'	S 22°27.5'	132°03.6'	10.5'	N 7°43.1'	11.0'	58.5'
14	316°06.0'	28°32.0'	S 22°27.2'	146°33.1'	10.6'	N 7°32.1'	11.0'	58.5'
15	331°08.4'	43°31.7'	S 22°26.9'	161°02.7'	10.6'	N 7°21.1'	11.0'	58.4'
16	346°10.9'	58°31.4'	S 22°26.5'	175°32.3'	10.7'	N 7°10.0'	11.1'	58.4'
17	1°13.4'	73°31.2'	S 22°26.2'	190°02.0'	10.8'	N 6°59.0'	11.1'	58.3'
18	16°15.8'	88°30.9'	S 22°25.9'	204°31.8'	10.9'	N 6°47.9'	11.1'	58.3'
19	31°18.3'	103°30.6'	S 22°25.6'	219°01.6'	10.9'	N 6°36.8'	11.1'	58.2'
20	46°20.8'	118°30.3'	S 22°25.3'	233°31.6'	11.0'	N 6°25.6'	11.1'	58.2'
21	61°23.2'	133°30.1'	S 22°25.0'	248°01.6'	11.1'	N 6°14.5'	11.2'	58.2'
22	76°25.7'	148°29.8'	S 22°24.7'	262°31.6'	11.1'	N 6°03.3'	11.2'	58.1'
23	91°28.2'	163°29.5'	S 22°24.4'	277°01.8'	11.2'	N 5°52.2'	11.2'	58.1'

Sun Jan 7, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.3' SD = 16.3'		SD = 15.7'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	106°30.6'	178°29.3'	S 22°24.1'	291°32.0'	11.3'	N 5°41.0'	11.2'	58.0'
1	121°33.1'	193°29.0'	S 22°23.7'	306°02.3'	11.3'	N 5°29.8'	11.2'	58.0'
2	136°35.5'	208°28.7'	S 22°23.4'	320°32.6'	11.4'	N 5°18.6'	11.2'	58.0'
3	151°38.0'	223°28.4'	S 22°23.1'	335°03.0'	11.5'	N 5°07.3'	11.2'	57.9'
4	166°40.5'	238°28.2'	S 22°22.8'	349°33.5'	11.5'	N 4°56.1'	11.2'	57.9'
5	181°42.9'	253°27.9'	S 22°22.5'	4°04.0'	11.6'	N 4°44.9'	11.3'	57.8'
6	196°45.4'	268°27.6'	S 22°22.2'	18°34.6'	11.7'	N 4°33.6'	11.3'	57.8'
7	211°47.9'	283°27.4'	S 22°21.9'	33°05.3'	11.7'	N 4°22.4'	11.3'	57.8'
8	226°50.3'	298°27.1'	S 22°21.5'	47°36.0'	11.8'	N 4°11.1'	11.3'	57.7'
9	241°52.8'	313°26.8'	S 22°21.2'	62°06.8'	11.8'	N 3°59.8'	11.3'	57.7'
10	256°55.3'	328°26.6'	S 22°20.9'	76°37.7'	11.9'	N 3°48.5'	11.3'	57.6'
11	271°57.7'	343°26.3'	S 22°20.6'	91°08.6'	12.0'	N 3°37.3'	11.3'	57.6'
12	287°00.2'	358°26.0'	S 22°20.2'	105°39.6'	12.0'	N 3°26.0'	11.3'	57.6'
13	302°02.7'	13°25.8'	S 22°19.9'	120°10.6'	12.1'	N 3°14.7'	11.3'	57.5'
14	317°05.1'	28°25.5'	S 22°19.6'	134°41.7'	12.1'	N 3°03.4'	11.3'	57.5'
15	332°07.6'	43°25.2'	S 22°19.3'	149°12.8'	12.2'	N 2°52.2'	11.3'	57.4'
16	347°10.0'	58°25.0'	S 22°18.9'	163°44.0'	12.2'	N 2°40.9'	11.3'	57.4'
17	2°12.5'	73°24.7'	S 22°18.6'	178°15.2'	12.3'	N 2°29.6'	11.3'	57.4'
18	17°15.0'	88°24.4'	S 22°18.3'	192°46.5'	12.3'	N 2°18.3'	11.3'	57.3'
19	32°17.4'	103°24.2'	S 22°18.0'	207°17.9'	12.4'	N 2°07.1'	11.3'	57.3'
20	47°19.9'	118°23.9'	S 22°17.6'	221°49.3'	12.5'	N 1°55.8'	11.3'	57.2'
21	62°22.4'	133°23.6'	S 22°17.3'	236°20.7'	12.5'	N 1°44.6'	11.2'	57.2'
22	77°24.8'	148°23.4'	S 22°17.0'	250°52.2'	12.5'	N 1°33.3'	11.2'	57.2'
23	92°27.3'	163°23.1'	S 22°16.7'	265°23.8'	12.6'	N 1°22.1'	11.2'	57.1'

Mon Jan 8, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.3' SD = 16.3'		SD = 15.5'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	107°29.8'	178°22.8'	S 22°16.3'	279°55.4'	12.6'	N 1°10.8'	11.2'	57.1'
1	122°32.2'	193°22.6'	S 22°16.0'	294°27.0'	12.7'	N 0°59.6'	11.2'	57.1'
2	137°34.7'	208°22.3'	S 22°15.7'	308°58.7'	12.7'	N 0°48.4'	11.2'	57.0'
3	152°37.1'	223°22.0'	S 22°15.3'	323°30.4'	12.8'	N 0°37.2'	11.2'	57.0'
4	167°39.6'	238°21.8'	S 22°15.0'	338°02.2'	12.8'	N 0°26.0'	11.2'	56.9'
5	182°42.1'	253°21.5'	S 22°14.7'	352°34.0'	12.9'	N 0°14.9'	11.2'	56.9'
6	197°44.5'	268°21.2'	S 22°14.3'	7°05.9'	12.9'	N 0°03.7'	11.1'	56.9'
7	212°47.0'	283°21.0'	S 22°14.0'	21°37.8'	12.9'	S 0°07.4'	11.1'	56.8'
8	227°49.5'	298°20.7'	S 22°13.6'	36°09.7'	13.0'	S 0°18.6'	11.1'	56.8'
9	242°51.9'	313°20.4'	S 22°13.3'	50°41.7'	13.0'	S 0°29.7'	11.1'	56.8'
10	257°54.4'	328°20.2'	S 22°13.0'	65°13.7'	13.1'	S 0°40.8'	11.1'	56.7'
11	272°56.9'	343°19.9'	S 22°12.6'	79°45.8'	13.1'	S 0°51.9'	11.1'	56.7'
12	287°59.3'	358°19.7'	S 22°12.3'	94°17.9'	13.1'	S 1°02.9'	11.0'	56.6'
13	303°01.8'	13°19.4'	S 22°11.9'	108°50.0'	13.2'	S 1°14.0'	11.0'	56.6'
14	318°04.3'	28°19.1'	S 22°11.6'	123°22.2'	13.2'	S 1°25.0'	11.0'	56.6'
15	333°06.7'	43°18.9'	S 22°11.3'	137°54.4'	13.2'	S 1°36.0'	11.0'	56.5'
16	348°09.2'	58°18.6'	S 22°10.9'	152°26.6'	13.3'	S 1°47.0'	11.0'	56.5'
17	3°11.6'	73°18.3'	S 22°10.6'	166°58.8'	13.3'	S 1°57.9'	10.9'	56.5'
18	18°14.1'	88°18.1'	S 22°10.2'	181°31.1'	13.3'	S 2°08.9'	10.9'	56.4'
19	33°16.6'	103°17.8'	S 22°09.9'	196°03.5'	13.4'	S 2°19.8'	10.9'	56.4'
20	48°19.0'	118°17.6'	S 22°09.5'	210°35.8'	13.4'	S 2°30.7'	10.9'	56.4'
21	63°21.5'	133°17.3'	S 22°09.2'	225°08.2'	13.4'	S 2°41.5'	10.8'	56.3'
22	78°24.0'	148°17.0'	S 22°08.8'	239°40.6'	13.4'	S 2°52.3'	10.8'	56.3'
23	93°26.4'	163°16.8'	S 22°08.5'	254°13.0'	13.5'	S 3°03.2'	10.8'	56.3'

Tue Jan 9, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.4' SD = 16.3'		SD = 15.2'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	108°28.9'	178°16.5'	S 22°08.1'	268°45.5'	13.5'	S 3°13.9'	10.8'	56.2'
1	123°31.4'	193°16.3'	S 22°07.8'	283°18.0'	13.5'	S 3°24.7'	10.7'	56.2'
2	138°33.8'	208°16.0'	S 22°07.4'	297°50.5'	13.5'	S 3°35.4'	10.7'	56.2'
3	153°36.3'	223°15.7'	S 22°07.1'	312°23.0'	13.6'	S 3°46.1'	10.7'	56.1'
4	168°38.7'	238°15.5'	S 22°06.7'	326°55.6'	13.6'	S 3°56.8'	10.6'	56.1'
5	183°41.2'	253°15.2'	S 22°06.4'	341°28.2'	13.6'	S 4°07.4'	10.6'	56.1'
6	198°43.7'	268°15.0'	S 22°06.0'	356°00.8'	13.6'	S 4°18.0'	10.6'	56.0'
7	213°46.1'	283°14.7'	S 22°05.7'	10°33.4'	13.6'	S 4°28.6'	10.5'	56.0'
8	228°48.6'	298°14.4'	S 22°05.3'	25°06.0'	13.7'	S 4°39.2'	10.5'	56.0'
9	243°51.1'	313°14.2'	S 22°05.0'	39°38.7'	13.7'	S 4°49.7'	10.5'	55.9'
10	258°53.5'	328°13.9'	S 22°04.6'	54°11.3'	13.7'	S 5°00.1'	10.4'	55.9'
11	273°56.0'	343°13.7'	S 22°04.2'	68°44.0'	13.7'	S 5°10.6'	10.4'	55.9'
12	288°58.5'	358°13.4'	S 22°03.9'	83°16.7'	13.7'	S 5°21.0'	10.4'	55.8'
13	304°00.9'	13°13.2'	S 22°03.5'	97°49.5'	13.7'	S 5°31.4'	10.3'	55.8'
14	319°03.4'	28°12.9'	S 22°03.2'	112°22.2'	13.8'	S 5°41.7'	10.3'	55.8'
15	334°05.9'	43°12.6'	S 22°02.8'	126°55.0'	13.8'	S 5°52.0'	10.3'	55.8'
16	349°08.3'	58°12.4'	S 22°02.4'	141°27.7'	13.8'	S 6°02.3'	10.2'	55.7'
17	4°10.8'	73°12.1'	S 22°02.1'	156°00.5'	13.8'	S 6°12.5'	10.2'	55.7'
18	19°13.2'	88°11.9'	S 22°01.7'	170°33.3'	13.8'	S 6°22.7'	10.2'	55.7'
19	34°15.7'	103°11.6'	S 22°01.4'	185°06.1'	13.8'	S 6°32.9'	10.1'	55.6'
20	49°18.2'	118°11.4'	S 22°01.0'	199°38.9'	13.8'	S 6°43.0'	10.1'	55.6'
21	64°20.6'	133°11.1'	S 22°00.6'	214°11.7'	13.8'	S 6°53.0'	10.0'	55.6'
22	79°23.1'	148°10.9'	S 22°00.3'	228°44.5'	13.8'	S 7°03.1'	10.0'	55.6'
23	94°25.6'	163°10.6'	S 21°59.9'	243°17.4'	13.8'	S 7°13.1'	9.9'	55.5'

Wed Jan 10, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.4' SD = 16.3'		SD = 15.1'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	109°28.0'	178°10.3'	S 21°59.5'	257°50.2'	13.8'	S 7°23.0'	9.9'	55.5'
1	124°30.5'	193°10.1'	S 21°59.2'	272°23.1'	13.9'	S 7°32.9'	9.9'	55.5'
2	139°33.0'	208°09.8'	S 21°58.8'	286°55.9'	13.9'	S 7°42.8'	9.8'	55.4'
3	154°35.4'	223°09.6'	S 21°58.4'	301°28.8'	13.9'	S 7°52.6'	9.8'	55.4'
4	169°37.9'	238°09.3'	S 21°58.0'	316°01.6'	13.9'	S 8°02.4'	9.7'	55.4'
5	184°40.4'	253°09.1'	S 21°57.7'	330°34.5'	13.9'	S 8°12.1'	9.7'	55.4'
6	199°42.8'	268°08.8'	S 21°57.3'	345°07.4'	13.9'	S 8°21.8'	9.6'	55.3'
7	214°45.3'	283°08.6'	S 21°56.9'	359°40.3'	13.9'	S 8°31.4'	9.6'	55.3'
8	229°47.7'	298°08.3'	S 21°56.6'	14°13.1'	13.9'	S 8°41.0'	9.6'	55.3'
9	244°50.2'	313°08.1'	S 21°56.2'	28°46.0'	13.9'	S 8°50.6'	9.5'	55.3'
10	259°52.7'	328°07.8'	S 21°55.8'	43°18.9'	13.9'	S 9°00.1'	9.5'	55.2'
11	274°55.1'	343°07.6'	S 21°55.4'	57°51.8'	13.9'	S 9°09.6'	9.4'	55.2'
12	289°57.6'	358°07.3'	S 21°55.1'	72°24.6'	13.9'	S 9°19.0'	9.4'	55.2'
13	305°00.1'	13°07.1'	S 21°54.7'	86°57.5'	13.9'	S 9°28.3'	9.3'	55.2'
14	320°02.5'	28°06.8'	S 21°54.3'	101°30.4'	13.9'	S 9°37.6'	9.3'	55.1'
15	335°05.0'	43°06.5'	S 21°53.9'	116°03.2'	13.9'	S 9°46.9'	9.2'	55.1'
16	350°07.5'	58°06.3'	S 21°53.5'	130°36.1'	13.9'	S 9°56.1'	9.2'	55.1'
17	5°09.9'	73°06.0'	S 21°53.2'	145°09.0'	13.9'	S 10°05.3'	9.1'	55.1'
18	20°12.4'	88°05.8'	S 21°52.8'	159°41.8'	13.9'	S 10°14.4'	9.1'	55.0'
19	35°14.8'	103°05.5'	S 21°52.4'	174°14.7'	13.8'	S 10°23.4'	9.0'	55.0'
20	50°17.3'	118°05.3'	S 21°52.0'	188°47.5'	13.8'	S 10°32.4'	9.0'	55.0'
21	65°19.8'	133°05.0'	S 21°51.6'	203°20.4'	13.8'	S 10°41.4'	8.9'	55.0'
22	80°22.2'	148°04.8'	S 21°51.2'	217°53.2'	13.8'	S 10°50.3'	8.8'	55.0'
23	95°24.7'	163°04.5'	S 21°50.9'	232°26.0'	13.8'	S 10°59.1'	8.8'	54.9'

Thu Jan 11, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.4' SD = 16.3'		SD = 14.9'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	110°27.2'	178°04.3'	S 21°50.5'	246°58.8'	13.8'	S 11°07.9'	8.7'	54.9'
1	125°29.6'	193°04.0'	S 21°50.1'	261°31.6'	13.8'	S 11°16.7'	8.7'	54.9'
2	140°32.1'	208°03.8'	S 21°49.7'	276°04.5'	13.8'	S 11°25.4'	8.6'	54.9'
3	155°34.6'	223°03.6'	S 21°49.3'	290°37.2'	13.8'	S 11°34.0'	8.6'	54.8'
4	170°37.0'	238°03.3'	S 21°48.9'	305°10.0'	13.8'	S 11°42.6'	8.5'	54.8'
5	185°39.5'	253°03.1'	S 21°48.5'	319°42.8'	13.8'	S 11°51.1'	8.5'	54.8'
6	200°42.0'	268°02.8'	S 21°48.1'	334°15.6'	13.7'	S 11°59.5'	8.4'	54.8'
7	215°44.4'	283°02.6'	S 21°47.8'	348°48.3'	13.7'	S 12°07.9'	8.3'	54.8'
8	230°46.9'	298°02.3'	S 21°47.4'	3°21.0'	13.7'	S 12°16.3'	8.3'	54.7'
9	245°49.3'	313°02.1'	S 21°47.0'	17°53.8'	13.7'	S 12°24.5'	8.2'	54.7'
10	260°51.8'	328°01.8'	S 21°46.6'	32°26.5'	13.7'	S 12°32.8'	8.2'	54.7'
11	275°54.3'	343°01.6'	S 21°46.2'	46°59.2'	13.7'	S 12°40.9'	8.1'	54.7'
12	290°56.7'	358°01.3'	S 21°45.8'	61°31.9'	13.7'	S 12°49.0'	8.0'	54.7'
13	305°59.2'	13°01.1'	S 21°45.4'	76°04.5'	13.7'	S 12°57.1'	8.0'	54.7'
14	321°01.7'	28°00.8'	S 21°45.0'	90°37.2'	13.6'	S 13°05.1'	7.9'	54.6'
15	336°04.1'	43°00.6'	S 21°44.6'	105°09.8'	13.6'	S 13°13.0'	7.9'	54.6'
16	351°06.6'	58°00.3'	S 21°44.2'	119°42.5'	13.6'	S 13°20.8'	7.8'	54.6'
17	6°09.1'	73°00.1'	S 21°43.8'	134°15.1'	13.6'	S 13°28.6'	7.7'	54.6'
18	21°11.5'	87°59.9'	S 21°43.4'	148°47.7'	13.6'	S 13°36.4'	7.7'	54.6'
19	36°14.0'	102°59.6'	S 21°43.0'	163°20.3'	13.6'	S 13°44.0'	7.6'	54.5'
20	51°16.5'	117°59.4'	S 21°42.6'	177°52.8'	13.5'	S 13°51.6'	7.5'	54.5'
21	66°18.9'	132°59.1'	S 21°42.2'	192°25.4'	13.5'	S 13°59.2'	7.5'	54.5'
22	81°21.4'	147°58.9'	S 21°41.8'	206°57.9'	13.5'	S 14°06.7'	7.4'	54.5'
23	96°23.8'	162°58.6'	S 21°41.4'	221°30.4'	13.5'	S 14°14.1'	7.3'	54.5'

Fri Jan 12, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.4' SD = 16.3'		SD = 14.8'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	111°26.3'	177°58.4'	S 21°41.0'	236°02.9'	13.5'	S 14°21.4'	7.3'	54.5'
1	126°28.8'	192°58.2'	S 21°40.6'	250°35.4'	13.5'	S 14°28.7'	7.2'	54.5'
2	141°31.2'	207°57.9'	S 21°40.2'	265°07.8'	13.4'	S 14°35.9'	7.1'	54.4'
3	156°33.7'	222°57.7'	S 21°39.8'	279°40.3'	13.4'	S 14°43.0'	7.1'	54.4'
4	171°36.2'	237°57.4'	S 21°39.4'	294°12.7'	13.4'	S 14°50.1'	7.0'	54.4'
5	186°38.6'	252°57.2'	S 21°39.0'	308°45.1'	13.4'	S 14°57.1'	6.9'	54.4'
6	201°41.1'	267°56.9'	S 21°38.6'	323°17.5'	13.4'	S 15°04.1'	6.9'	54.4'
7	216°43.6'	282°56.7'	S 21°38.2'	337°49.9'	13.3'	S 15°10.9'	6.8'	54.4'
8	231°46.0'	297°56.5'	S 21°37.8'	352°22.2'	13.3'	S 15°17.7'	6.7'	54.4'
9	246°48.5'	312°56.2'	S 21°37.3'	6°54.5'	13.3'	S 15°24.5'	6.7'	54.3'
10	261°51.0'	327°56.0'	S 21°36.9'	21°26.8'	13.3'	S 15°31.1'	6.6'	54.3'
11	276°53.4'	342°55.7'	S 21°36.5'	35°59.1'	13.3'	S 15°37.7'	6.5'	54.3'
12	291°55.9'	357°55.5'	S 21°36.1'	50°31.4'	13.2'	S 15°44.3'	6.4'	54.3'
13	306°58.3'	12°55.3'	S 21°35.7'	65°03.6'	13.2'	S 15°50.7'	6.4'	54.3'
14	322°00.8'	27°55.0'	S 21°35.3'	79°35.8'	13.2'	S 15°57.1'	6.3'	54.3'
15	337°03.3'	42°54.8'	S 21°34.9'	94°08.0'	13.2'	S 16°03.4'	6.2'	54.3'
16	352°05.7'	57°54.5'	S 21°34.5'	108°40.2'	13.2'	S 16°09.6'	6.2'	54.3'
17	7°08.2'	72°54.3'	S 21°34.0'	123°12.4'	13.1'	S 16°15.8'	6.1'	54.2'
18	22°10.7'	87°54.1'	S 21°33.6'	137°44.5'	13.1'	S 16°21.9'	6.0'	54.2'
19	37°13.1'	102°53.8'	S 21°33.2'	152°16.6'	13.1'	S 16°27.9'	5.9'	54.2'
20	52°15.6'	117°53.6'	S 21°32.8'	166°48.7'	13.1'	S 16°33.8'	5.9'	54.2'
21	67°18.1'	132°53.4'	S 21°32.4'	181°20.8'	13.0'	S 16°39.7'	5.8'	54.2'
22	82°20.5'	147°53.1'	S 21°31.9'	195°52.8'	13.0'	S 16°45.4'	5.7'	54.2'
23	97°23.0'	162°52.9'	S 21°31.5'	210°24.8'	13.0'	S 16°51.2'	5.6'	54.2'

Sat Jan 13, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.4' SD = 16.3'		SD = 14.8'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	112°25.4'	177°52.6'	S 21°31.1'	224°56.9'	13.0'	S 16°56.8'	5.6'	54.2'
1	127°27.9'	192°52.4'	S 21°30.7'	239°28.8'	13.0'	S 17°02.3'	5.5'	54.2'
2	142°30.4'	207°52.2'	S 21°30.3'	254°00.8'	12.9'	S 17°07.8'	5.4'	54.2'
3	157°32.8'	222°51.9'	S 21°29.8'	268°32.7'	12.9'	S 17°13.2'	5.3'	54.1'
4	172°35.3'	237°51.7'	S 21°29.4'	283°04.7'	12.9'	S 17°18.6'	5.2'	54.1'
5	187°37.8'	252°51.5'	S 21°29.0'	297°36.5'	12.9'	S 17°23.8'	5.2'	54.1'
6	202°40.2'	267°51.2'	S 21°28.6'	312°08.4'	12.9'	S 17°29.0'	5.1'	54.1'
7	217°42.7'	282°51.0'	S 21°28.1'	326°40.3'	12.8'	S 17°34.0'	5.0'	54.1'
8	232°45.2'	297°50.8'	S 21°27.7'	341°12.1'	12.8'	S 17°39.1'	4.9'	54.1'
9	247°47.6'	312°50.5'	S 21°27.3'	355°43.9'	12.8'	S 17°44.0'	4.8'	54.1'
10	262°50.1'	327°50.3'	S 21°26.9'	10°15.7'	12.8'	S 17°48.8'	4.8'	54.1'
11	277°52.6'	342°50.1'	S 21°26.4'	24°47.5'	12.7'	S 17°53.6'	4.7'	54.1'
12	292°55.0'	357°49.8'	S 21°26.0'	39°19.2'	12.7'	S 17°58.3'	4.6'	54.1'
13	307°57.5'	12°49.6'	S 21°25.6'	53°50.9'	12.7'	S 18°02.9'	4.5'	54.1'
14	322°59.9'	27°49.4'	S 21°25.1'	68°22.6'	12.7'	S 18°07.4'	4.4'	54.1'
15	338°02.4'	42°49.1'	S 21°24.7'	82°54.3'	12.7'	S 18°11.9'	4.4'	54.1'
16	353°04.9'	57°48.9'	S 21°24.3'	97°26.0'	12.6'	S 18°16.2'	4.3'	54.0'
17	8°07.3'	72°48.7'	S 21°23.9'	111°57.6'	12.6'	S 18°20.5'	4.2'	54.0'
18	23°09.8'	87°48.4'	S 21°23.4'	126°29.2'	12.6'	S 18°24.7'	4.1'	54.0'
19	38°12.3'	102°48.2'	S 21°23.0'	141°00.8'	12.6'	S 18°28.8'	4.0'	54.0'
20	53°14.7'	117°48.0'	S 21°22.5'	155°32.4'	12.6'	S 18°32.8'	3.9'	54.0'
21	68°17.2'	132°47.7'	S 21°22.1'	170°03.9'	12.5'	S 18°36.8'	3.9'	54.0'
22	83°19.7'	147°47.5'	S 21°21.7'	184°35.5'	12.5'	S 18°40.6'	3.8'	54.0'
23	98°22.1'	162°47.3'	S 21°21.2'	199°07.0'	12.5'	S 18°44.4'	3.7'	54.0'

Sun Jan 14, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.4' SD = 16.3'		SD = 14.7'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	113°24.6'	177°47.0'	S 21°20.8'	213°38.5'	12.5'	S 18°48.1'	3.6'	54.0'
1	128°27.1'	192°46.8'	S 21°20.4'	228°09.9'	12.5'	S 18°51.7'	3.5'	54.0'
2	143°29.5'	207°46.6'	S 21°19.9'	242°41.4'	12.4'	S 18°55.2'	3.4'	54.0'
3	158°32.0'	222°46.3'	S 21°19.5'	257°12.8'	12.4'	S 18°58.6'	3.3'	54.0'
4	173°34.4'	237°46.1'	S 21°19.0'	271°44.3'	12.4'	S 19°02.0'	3.3'	54.0'
5	188°36.9'	252°45.9'	S 21°18.6'	286°15.7'	12.4'	S 19°05.2'	3.2'	54.0'
6	203°39.4'	267°45.7'	S 21°18.2'	300°47.0'	12.4'	S 19°08.4'	3.1'	54.0'
7	218°41.8'	282°45.4'	S 21°17.7'	315°18.4'	12.3'	S 19°11.5'	3.0'	54.0'
8	233°44.3'	297°45.2'	S 21°17.3'	329°49.7'	12.3'	S 19°14.5'	2.9'	54.0'
9	248°46.8'	312°45.0'	S 21°16.8'	344°21.1'	12.3'	S 19°17.4'	2.8'	54.0'
10	263°49.2'	327°44.7'	S 21°16.4'	358°52.4'	12.3'	S 19°20.2'	2.7'	54.0'
11	278°51.7'	342°44.5'	S 21°15.9'	13°23.7'	12.3'	S 19°23.0'	2.6'	54.0'
12	293°54.2'	357°44.3'	S 21°15.5'	27°54.9'	12.3'	S 19°25.6'	2.6'	54.0'
13	308°56.6'	12°44.1'	S 21°15.0'	42°26.2'	12.2'	S 19°28.2'	2.5'	54.0'
14	323°59.1'	27°43.8'	S 21°14.6'	56°57.4'	12.2'	S 19°30.6'	2.4'	54.0'
15	339°01.6'	42°43.6'	S 21°14.1'	71°28.7'	12.2'	S 19°33.0'	2.3'	54.0'
16	354°04.0'	57°43.4'	S 21°13.7'	85°59.9'	12.2'	S 19°35.3'	2.2'	54.0'
17	9°06.5'	72°43.2'	S 21°13.2'	100°31.1'	12.2'	S 19°37.5'	2.1'	54.0'
18	24°08.9'	87°42.9'	S 21°12.8'	115°02.3'	12.2'	S 19°39.6'	2.0'	53.9'
19	39°11.4'	102°42.7'	S 21°12.3'	129°33.4'	12.2'	S 19°41.6'	1.9'	53.9'
20	54°13.9'	117°42.5'	S 21°11.9'	144°04.6'	12.1'	S 19°43.5'	1.8'	53.9'
21	69°16.3'	132°42.3'	S 21°11.4'	158°35.7'	12.1'	S 19°45.4'	1.7'	53.9'
22	84°18.8'	147°42.0'	S 21°11.0'	173°06.9'	12.1'	S 19°47.1'	1.7'	53.9'
23	99°21.3'	162°41.8'	S 21°10.5'	187°38.0'	12.1'	S 19°48.8'	1.6'	53.9'

Mon Jan 15, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.5' SD = 16.3'		SD = 14.7'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	114°23.7'	177°41.6'	S 21°10.1'	202°09.1'	12.1'	S 19°50.3'	1.5'	53.9'
1	129°26.2'	192°41.4'	S 21°09.6'	216°40.2'	12.1'	S 19°51.8'	1.4'	53.9'
2	144°28.7'	207°41.1'	S 21°09.2'	231°11.3'	12.1'	S 19°53.2'	1.3'	53.9'
3	159°31.1'	222°40.9'	S 21°08.7'	245°42.4'	12.1'	S 19°54.5'	1.2'	53.9'
4	174°33.6'	237°40.7'	S 21°08.3'	260°13.4'	12.1'	S 19°55.7'	1.1'	53.9'
5	189°36.1'	252°40.5'	S 21°07.8'	274°44.5'	12.0'	S 19°56.8'	1.0'	53.9'
6	204°38.5'	267°40.3'	S 21°07.3'	289°15.5'	12.0'	S 19°57.8'	0.9'	53.9'
7	219°41.0'	282°40.0'	S 21°06.9'	303°46.5'	12.0'	S 19°58.8'	0.8'	53.9'
8	234°43.4'	297°39.8'	S 21°06.4'	318°17.6'	12.0'	S 19°59.6'	0.7'	53.9'
9	249°45.9'	312°39.6'	S 21°06.0'	332°48.6'	12.0'	S 20°00.3'	0.6'	53.9'
10	264°48.4'	327°39.4'	S 21°05.5'	347°19.6'	12.0'	S 20°01.0'	0.6'	54.0'
11	279°50.8'	342°39.2'	S 21°05.0'	1°50.6'	12.0'	S 20°01.5'	0.5'	54.0'
12	294°53.3'	357°38.9'	S 21°04.6'	16°21.6'	12.0'	S 20°02.0'	0.4'	54.0'
13	309°55.8'	12°38.7'	S 21°04.1'	30°52.6'	12.0'	S 20°02.4'	0.3'	54.0'
14	324°58.2'	27°38.5'	S 21°03.6'	45°23.6'	12.0'	S 20°02.6'	0.2'	54.0'
15	340°00.7'	42°38.3'	S 21°03.2'	59°54.5'	12.0'	S 20°02.8'	0.1'	54.0'
16	355°03.2'	57°38.1'	S 21°02.7'	74°25.5'	12.0'	S 20°02.9'	0.0'	54.0'
17	10°05.6'	72°37.8'	S 21°02.2'	88°56.5'	12.0'	S 20°02.9'	0.1'	54.0'
18	25°08.1'	87°37.6'	S 21°01.8'	103°27.4'	12.0'	S 20°02.8'	0.2'	54.0'
19	40°10.5'	102°37.4'	S 21°01.3'	117°58.4'	12.0'	S 20°02.7'	0.3'	54.0'
20	55°13.0'	117°37.2'	S 21°00.8'	132°29.4'	12.0'	S 20°02.4'	0.4'	54.0'
21	70°15.5'	132°37.0'	S 21°00.4'	147°00.3'	12.0'	S 20°02.0'	0.5'	54.0'
22	85°17.9'	147°36.7'	S 20°59.9'	161°31.3'	12.0'	S 20°01.5'	0.6'	54.0'
23	100°20.4'	162°36.5'	S 20°59.4'	176°02.2'	11.9'	S 20°01.0'	0.6'	54.0'

Tue Jan 16, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.5' SD = 16.3'		SD = 14.7'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	115°22.9'	177°36.3'	S 20°59.0'	190°33.2'	11.9'	S 20°00.3'	0.7'	54.0'
1	130°25.3'	192°36.1'	S 20°58.5'	205°04.1'	11.9'	S 19°59.6'	0.8'	54.0'
2	145°27.8'	207°35.9'	S 20°58.0'	219°35.1'	11.9'	S 19°58.8'	0.9'	54.0'
3	160°30.3'	222°35.7'	S 20°57.5'	234°06.0'	11.9'	S 19°57.8'	1.0'	54.0'
4	175°32.7'	237°35.5'	S 20°57.1'	248°36.9'	12.0'	S 19°56.8'	1.1'	54.0'
5	190°35.2'	252°35.2'	S 20°56.6'	263°07.9'	12.0'	S 19°55.7'	1.2'	54.0'
6	205°37.7'	267°35.0'	S 20°56.1'	277°38.9'	12.0'	S 19°54.5'	1.3'	54.0'
7	220°40.1'	282°34.8'	S 20°55.6'	292°09.8'	12.0'	S 19°53.2'	1.4'	54.0'
8	235°42.6'	297°34.6'	S 20°55.2'	306°40.8'	12.0'	S 19°51.8'	1.5'	54.0'
9	250°45.0'	312°34.4'	S 20°54.7'	321°11.7'	12.0'	S 19°50.3'	1.6'	54.0'
10	265°47.5'	327°34.2'	S 20°54.2'	335°42.7'	12.0'	S 19°48.7'	1.7'	54.0'
11	280°50.0'	342°34.0'	S 20°53.7'	350°13.7'	12.0'	S 19°47.1'	1.8'	54.0'
12	295°52.4'	357°33.7'	S 20°53.2'	4°44.6'	12.0'	S 19°45.3'	1.9'	54.0'
13	310°54.9'	12°33.5'	S 20°52.8'	19°15.6'	12.0'	S 19°43.5'	1.9'	54.0'
14	325°57.4'	27°33.3'	S 20°52.3'	33°46.6'	12.0'	S 19°41.5'	2.0'	54.1'
15	340°59.8'	42°33.1'	S 20°51.8'	48°17.6'	12.0'	S 19°39.5'	2.1'	54.1'
16	356°02.3'	57°32.9'	S 20°51.3'	62°48.6'	12.0'	S 19°37.4'	2.2'	54.1'
17	11°04.8'	72°32.7'	S 20°50.8'	77°19.6'	12.0'	S 19°35.1'	2.3'	54.1'
18	26°07.2'	87°32.5'	S 20°50.3'	91°50.6'	12.0'	S 19°32.8'	2.4'	54.1'
19	41°09.7'	102°32.3'	S 20°49.9'	106°21.6'	12.0'	S 19°30.4'	2.5'	54.1'
20	56°12.2'	117°32.0'	S 20°49.4'	120°52.6'	12.0'	S 19°27.9'	2.6'	54.1'
21	71°14.6'	132°31.8'	S 20°48.9'	135°23.7'	12.0'	S 19°25.4'	2.7'	54.1'
22	86°17.1'	147°31.6'	S 20°48.4'	149°54.7'	12.1'	S 19°22.7'	2.8'	54.1'
23	101°19.5'	162°31.4'	S 20°47.9'	164°25.8'	12.1'	S 19°19.9'	2.9'	54.1'

Wed Jan 17, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.5' SD = 16.3'		SD = 14.8'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	116°22.0'	177°31.2'	S 20°47.4'	178°56.8'	12.1'	S 19°17.1'	2.9'	54.1'
1	131°24.5'	192°31.0'	S 20°46.9'	193°27.9'	12.1'	S 19°14.1'	3.0'	54.1'
2	146°26.9'	207°30.8'	S 20°46.5'	207°59.0'	12.1'	S 19°11.1'	3.1'	54.1'
3	161°29.4'	222°30.6'	S 20°46.0'	222°30.1'	12.1'	S 19°08.0'	3.2'	54.1'
4	176°31.9'	237°30.4'	S 20°45.5'	237°01.2'	12.1'	S 19°04.8'	3.3'	54.1'
5	191°34.3'	252°30.2'	S 20°45.0'	251°32.3'	12.1'	S 19°01.5'	3.4'	54.2'
6	206°36.8'	267°30.0'	S 20°44.5'	266°03.4'	12.1'	S 18°58.1'	3.5'	54.2'
7	221°39.3'	282°29.7'	S 20°44.0'	280°34.6'	12.2'	S 18°54.6'	3.6'	54.2'
8	236°41.7'	297°29.5'	S 20°43.5'	295°05.7'	12.2'	S 18°51.0'	3.7'	54.2'
9	251°44.2'	312°29.3'	S 20°43.0'	309°36.9'	12.2'	S 18°47.4'	3.7'	54.2'
10	266°46.7'	327°29.1'	S 20°42.5'	324°08.1'	12.2'	S 18°43.6'	3.8'	54.2'
11	281°49.1'	342°28.9'	S 20°42.0'	338°39.3'	12.2'	S 18°39.8'	3.9'	54.2'
12	296°51.6'	357°28.7'	S 20°41.5'	353°10.5'	12.2'	S 18°35.9'	4.0'	54.2'
13	311°54.0'	12°28.5'	S 20°41.0'	7°41.7'	12.2'	S 18°31.9'	4.1'	54.2'
14	326°56.5'	27°28.3'	S 20°40.5'	22°13.0'	12.3'	S 18°27.8'	4.2'	54.2'
15	341°59.0'	42°28.1'	S 20°40.0'	36°44.2'	12.3'	S 18°23.6'	4.3'	54.2'
16	357°01.4'	57°27.9'	S 20°39.5'	51°15.5'	12.3'	S 18°19.4'	4.3'	54.2'
17	12°03.9'	72°27.7'	S 20°39.0'	65°46.8'	12.3'	S 18°15.0'	4.4'	54.3'
18	27°06.4'	87°27.5'	S 20°38.5'	80°18.1'	12.3'	S 18°10.6'	4.5'	54.3'
19	42°08.8'	102°27.3'	S 20°38.0'	94°49.4'	12.3'	S 18°06.1'	4.6'	54.3'
20	57°11.3'	117°27.1'	S 20°37.5'	109°20.8'	12.4'	S 18°01.4'	4.7'	54.3'
21	72°13.8'	132°26.9'	S 20°37.0'	123°52.1'	12.4'	S 17°56.8'	4.8'	54.3'
22	87°16.2'	147°26.7'	S 20°36.5'	138°23.5'	12.4'	S 17°52.0'	4.9'	54.3'
23	102°18.7'	162°26.5'	S 20°36.0'	152°54.9'	12.4'	S 17°47.1'	4.9'	54.3'

Thu Jan 18, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.5' SD = 16.3'		SD = 14.9'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	117°21.1'	177°26.3'	S 20°35.5'	167°26.3'	12.4'	S 17°42.2'	5.0'	54.3'
1	132°23.6'	192°26.1'	S 20°35.0'	181°57.7'	12.4'	S 17°37.2'	5.1'	54.3'
2	147°26.1'	207°25.9'	S 20°34.5'	196°29.2'	12.5'	S 17°32.1'	5.2'	54.3'
3	162°28.5'	222°25.7'	S 20°34.0'	211°00.6'	12.5'	S 17°26.9'	5.3'	54.4'
4	177°31.0'	237°25.5'	S 20°33.5'	225°32.1'	12.5'	S 17°21.6'	5.3'	54.4'
5	192°33.5'	252°25.3'	S 20°33.0'	240°03.6'	12.5'	S 17°16.3'	5.4'	54.4'
6	207°35.9'	267°25.1'	S 20°32.5'	254°35.2'	12.5'	S 17°10.8'	5.5'	54.4'
7	222°38.4'	282°24.9'	S 20°32.0'	269°06.7'	12.6'	S 17°05.3'	5.6'	54.4'
8	237°40.9'	297°24.7'	S 20°31.4'	283°38.3'	12.6'	S 16°59.7'	5.7'	54.4'
9	252°43.3'	312°24.5'	S 20°30.9'	298°09.8'	12.6'	S 16°54.1'	5.7'	54.4'
10	267°45.8'	327°24.3'	S 20°30.4'	312°41.4'	12.6'	S 16°48.3'	5.8'	54.4'
11	282°48.3'	342°24.1'	S 20°29.9'	327°13.1'	12.6'	S 16°42.5'	5.9'	54.4'
12	297°50.7'	357°23.9'	S 20°29.4'	341°44.7'	12.7'	S 16°36.6'	6.0'	54.5'
13	312°53.2'	12°23.7'	S 20°28.9'	356°16.3'	12.7'	S 16°30.6'	6.1'	54.5'
14	327°55.6'	27°23.5'	S 20°28.4'	10°48.0'	12.7'	S 16°24.6'	6.1'	54.5'
15	342°58.1'	42°23.3'	S 20°27.9'	25°19.7'	12.7'	S 16°18.4'	6.2'	54.5'
16	358°00.6'	57°23.1'	S 20°27.3'	39°51.4'	12.7'	S 16°12.2'	6.3'	54.5'
17	13°03.0'	72°22.9'	S 20°26.8'	54°23.2'	12.8'	S 16°05.9'	6.4'	54.5'
18	28°05.5'	87°22.7'	S 20°26.3'	68°54.9'	12.8'	S 15°59.6'	6.4'	54.5'
19	43°08.0'	102°22.5'	S 20°25.8'	83°26.7'	12.8'	S 15°53.1'	6.5'	54.5'
20	58°10.4'	117°22.3'	S 20°25.3'	97°58.5'	12.8'	S 15°46.6'	6.6'	54.6'
21	73°12.9'	132°22.1'	S 20°24.8'	112°30.3'	12.8'	S 15°40.0'	6.7'	54.6'
22	88°15.4'	147°21.9'	S 20°24.2'	127°02.2'	12.9'	S 15°33.4'	6.7'	54.6'
23	103°17.8'	162°21.7'	S 20°23.7'	141°34.1'	12.9'	S 15°26.6'	6.8'	54.6'

Fri Jan 19, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.5' SD = 16.3'		SD = 14.9'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	118°20.3'	177°21.5'	S 20°23.2'	156°05.9'	12.9'	S 15°19.8'	6.9'	54.6'
1	133°22.8'	192°21.3'	S 20°22.7'	170°37.8'	12.9'	S 15°12.9'	7.0'	54.6'
2	148°25.2'	207°21.1'	S 20°22.2'	185°09.8'	12.9'	S 15°06.0'	7.0'	54.6'
3	163°27.7'	222°20.9'	S 20°21.6'	199°41.7'	13.0'	S 14°59.0'	7.1'	54.6'
4	178°30.1'	237°20.7'	S 20°21.1'	214°13.7'	13.0'	S 14°51.9'	7.2'	54.7'
5	193°32.6'	252°20.5'	S 20°20.6'	228°45.6'	13.0'	S 14°44.7'	7.2'	54.7'
6	208°35.1'	267°20.4'	S 20°20.1'	243°17.7'	13.0'	S 14°37.5'	7.3'	54.7'
7	223°37.5'	282°20.2'	S 20°19.5'	257°49.7'	13.0'	S 14°30.2'	7.4'	54.7'
8	238°40.0'	297°20.0'	S 20°19.0'	272°21.7'	13.1'	S 14°22.8'	7.4'	54.7'
9	253°42.5'	312°19.8'	S 20°18.5'	286°53.8'	13.1'	S 14°15.4'	7.5'	54.7'
10	268°44.9'	327°19.6'	S 20°18.0'	301°25.9'	13.1'	S 14°07.9'	7.6'	54.7'
11	283°47.4'	342°19.4'	S 20°17.4'	315°58.0'	13.1'	S 14°00.3'	7.6'	54.8'
12	298°49.9'	357°19.2'	S 20°16.9'	330°30.1'	13.1'	S 13°52.6'	7.7'	54.8'
13	313°52.3'	12°19.0'	S 20°16.4'	345°02.2'	13.2'	S 13°44.9'	7.8'	54.8'
14	328°54.8'	27°18.8'	S 20°15.8'	359°34.4'	13.2'	S 13°37.2'	7.8'	54.8'
15	343°57.2'	42°18.6'	S 20°15.3'	14°06.6'	13.2'	S 13°29.3'	7.9'	54.8'
16	358°59.7'	57°18.4'	S 20°14.8'	28°38.8'	13.2'	S 13°21.4'	8.0'	54.8'
17	14°02.2'	72°18.3'	S 20°14.2'	43°11.0'	13.2'	S 13°13.5'	8.0'	54.9'
18	29°04.6'	87°18.1'	S 20°13.7'	57°43.2'	13.3'	S 13°05.5'	8.1'	54.9'
19	44°07.1'	102°17.9'	S 20°13.2'	72°15.5'	13.3'	S 12°57.4'	8.1'	54.9'
20	59°09.6'	117°17.7'	S 20°12.6'	86°47.7'	13.3'	S 12°49.2'	8.2'	54.9'
21	74°12.0'	132°17.5'	S 20°12.1'	101°20.0'	13.3'	S 12°41.0'	8.3'	54.9'
22	89°14.5'	147°17.3'	S 20°11.6'	115°52.3'	13.3'	S 12°32.7'	8.3'	54.9'
23	104°17.0'	162°17.1'	S 20°11.0'	130°24.6'	13.3'	S 12°24.4'	8.4'	55.0'

Sat Jan 20, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.5' SD = 16.3'		SD = 15.0'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	119°19.4'	177°16.9'	S 20°10.5'	144°57.0'	13.4'	S 12°16.0'	8.5'	55.0'
1	134°21.9'	192°16.8'	S 20°10.0'	159°29.3'	13.4'	S 12°07.6'	8.5'	55.0'
2	149°24.4'	207°16.6'	S 20°09.4'	174°01.7'	13.4'	S 11°59.1'	8.6'	55.0'
3	164°26.8'	222°16.4'	S 20°08.9'	188°34.1'	13.4'	S 11°50.5'	8.6'	55.0'
4	179°29.3'	237°16.2'	S 20°08.3'	203°06.5'	13.4'	S 11°41.9'	8.7'	55.0'
5	194°31.7'	252°16.0'	S 20°07.8'	217°38.9'	13.4'	S 11°33.2'	8.7'	55.1'
6	209°34.2'	267°15.8'	S 20°07.3'	232°11.3'	13.4'	S 11°24.4'	8.8'	55.1'
7	224°36.7'	282°15.6'	S 20°06.7'	246°43.8'	13.5'	S 11°15.6'	8.8'	55.1'
8	239°39.1'	297°15.5'	S 20°06.2'	261°16.2'	13.5'	S 11°06.8'	8.9'	55.1'
9	254°41.6'	312°15.3'	S 20°05.6'	275°48.7'	13.5'	S 10°57.9'	9.0'	55.1'
10	269°44.1'	327°15.1'	S 20°05.1'	290°21.2'	13.5'	S 10°48.9'	9.0'	55.1'
11	284°46.5'	342°14.9'	S 20°04.6'	304°53.7'	13.5'	S 10°39.9'	9.1'	55.2'
12	299°49.0'	357°14.7'	S 20°04.0'	319°26.2'	13.5'	S 10°30.9'	9.1'	55.2'
13	314°51.5'	12°14.5'	S 20°03.5'	333°58.7'	13.5'	S 10°21.8'	9.2'	55.2'
14	329°53.9'	27°14.4'	S 20°02.9'	348°31.3'	13.5'	S 10°12.6'	9.2'	55.2'
15	344°56.4'	42°14.2'	S 20°02.4'	3°03.8'	13.6'	S 10°03.4'	9.3'	55.2'
16	359°58.9'	57°14.0'	S 20°01.8'	17°36.4'	13.6'	S 9°54.1'	9.3'	55.3'
17	15°01.3'	72°13.8'	S 20°01.3'	32°08.9'	13.6'	S 9°44.8'	9.4'	55.3'
18	30°03.8'	87°13.6'	S 20°00.7'	46°41.5'	13.6'	S 9°35.4'	9.4'	55.3'
19	45°06.2'	102°13.5'	S 20°00.2'	61°14.1'	13.6'	S 9°26.0'	9.5'	55.3'
20	60°08.7'	117°13.3'	S 19°59.6'	75°46.7'	13.6'	S 9°16.6'	9.5'	55.3'
21	75°11.2'	132°13.1'	S 19°59.1'	90°19.3'	13.6'	S 9°07.1'	9.6'	55.4'
22	90°13.6'	147°12.9'	S 19°58.5'	104°51.9'	13.6'	S 8°57.5'	9.6'	55.4'
23	105°16.1'	162°12.7'	S 19°58.0'	119°24.5'	13.6'	S 8°47.9'	9.6'	55.4'

Sun Jan 21, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.6' SD = 16.3'		SD = 15.2'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	120°18.6'	177°12.6'	S 19°57.4'	133°57.2'	13.6'	S 8°38.3'	9.7'	55.4'
1	135°21.0'	192°12.4'	S 19°56.9'	148°29.8'	13.6'	S 8°28.6'	9.7'	55.4'
2	150°23.5'	207°12.2'	S 19°56.3'	163°02.4'	13.6'	S 8°18.8'	9.8'	55.5'
3	165°26.0'	222°12.0'	S 19°55.8'	177°35.1'	13.7'	S 8°09.1'	9.8'	55.5'
4	180°28.4'	237°11.8'	S 19°55.2'	192°07.7'	13.7'	S 7°59.2'	9.9'	55.5'
5	195°30.9'	252°11.7'	S 19°54.7'	206°40.4'	13.7'	S 7°49.4'	9.9'	55.5'
6	210°33.3'	267°11.5'	S 19°54.1'	221°13.1'	13.7'	S 7°39.5'	9.9'	55.5'
7	225°35.8'	282°11.3'	S 19°53.5'	235°45.7'	13.7'	S 7°29.5'	10.0'	55.6'
8	240°38.3'	297°11.1'	S 19°53.0'	250°18.4'	13.7'	S 7°19.6'	10.0'	55.6'
9	255°40.7'	312°11.0'	S 19°52.4'	264°51.0'	13.7'	S 7°09.5'	10.1'	55.6'
10	270°43.2'	327°10.8'	S 19°51.9'	279°23.7'	13.7'	S 6°59.5'	10.1'	55.6'
11	285°45.7'	342°10.6'	S 19°51.3'	293°56.4'	13.7'	S 6°49.4'	10.1'	55.6'
12	300°48.1'	357°10.4'	S 19°50.7'	308°29.1'	13.7'	S 6°39.2'	10.2'	55.7'
13	315°50.6'	12°10.3'	S 19°50.2'	323°01.7'	13.7'	S 6°29.1'	10.2'	55.7'
14	330°53.1'	27°10.1'	S 19°49.6'	337°34.4'	13.7'	S 6°18.9'	10.2'	55.7'
15	345°55.5'	42°09.9'	S 19°49.1'	352°07.1'	13.7'	S 6°08.6'	10.3'	55.7'
16	0°58.0'	57°09.7'	S 19°48.5'	6°39.7'	13.7'	S 5°58.3'	10.3'	55.8'
17	16°00.5'	72°09.6'	S 19°47.9'	21°12.4'	13.7'	S 5°48.0'	10.3'	55.8'
18	31°02.9'	87°09.4'	S 19°47.4'	35°45.0'	13.7'	S 5°37.7'	10.4'	55.8'
19	46°05.4'	102°09.2'	S 19°46.8'	50°17.7'	13.6'	S 5°27.3'	10.4'	55.8'
20	61°07.8'	117°09.1'	S 19°46.2'	64°50.3'	13.6'	S 5°16.9'	10.4'	55.8'
21	76°10.3'	132°08.9'	S 19°45.7'	79°23.0'	13.6'	S 5°06.5'	10.5'	55.9'
22	91°12.8'	147°08.7'	S 19°45.1'	93°55.6'	13.6'	S 4°56.0'	10.5'	55.9'
23	106°15.2'	162°08.5'	S 19°44.5'	108°28.2'	13.6'	S 4°45.5'	10.5'	55.9'

Mon Jan 22, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.6' SD = 16.3'		SD = 15.3'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	121°17.7'	177°08.4'	S 19°44.0'	123°00.9'	13.6'	S 4°34.9'	10.6'	55.9'
1	136°20.2'	192°08.2'	S 19°43.4'	137°33.5'	13.6'	S 4°24.4'	10.6'	56.0'
2	151°22.6'	207°08.0'	S 19°42.8'	152°06.1'	13.6'	S 4°13.8'	10.6'	56.0'
3	166°25.1'	222°07.9'	S 19°42.3'	166°38.7'	13.6'	S 4°03.2'	10.6'	56.0'
4	181°27.6'	237°07.7'	S 19°41.7'	181°11.3'	13.6'	S 3°52.5'	10.7'	56.0'
5	196°30.0'	252°07.5'	S 19°41.1'	195°43.8'	13.6'	S 3°41.9'	10.7'	56.1'
6	211°32.5'	267°07.4'	S 19°40.6'	210°16.4'	13.5'	S 3°31.2'	10.7'	56.1'
7	226°35.0'	282°07.2'	S 19°40.0'	224°49.0'	13.5'	S 3°20.4'	10.7'	56.1'
8	241°37.4'	297°07.0'	S 19°39.4'	239°21.5'	13.5'	S 3°09.7'	10.8'	56.1'
9	256°39.9'	312°06.9'	S 19°38.8'	253°54.0'	13.5'	S 2°58.9'	10.8'	56.2'
10	271°42.3'	327°06.7'	S 19°38.3'	268°26.5'	13.5'	S 2°48.2'	10.8'	56.2'
11	286°44.8'	342°06.5'	S 19°37.7'	282°59.0'	13.5'	S 2°37.3'	10.8'	56.2'
12	301°47.3'	357°06.3'	S 19°37.1'	297°31.5'	13.5'	S 2°26.5'	10.9'	56.2'
13	316°49.7'	12°06.2'	S 19°36.5'	312°03.9'	13.4'	S 2°15.7'	10.9'	56.3'
14	331°52.2'	27°06.0'	S 19°36.0'	326°36.4'	13.4'	S 2°04.8'	10.9'	56.3'
15	346°54.7'	42°05.9'	S 19°35.4'	341°08.8'	13.4'	S 1°53.9'	10.9'	56.3'
16	1°57.1'	57°05.7'	S 19°34.8'	355°41.2'	13.4'	S 1°43.0'	10.9'	56.3'
17	16°59.6'	72°05.5'	S 19°34.2'	10°13.6'	13.4'	S 1°32.1'	10.9'	56.4'
18	32°02.1'	87°05.4'	S 19°33.7'	24°46.0'	13.3'	S 1°21.1'	11.0'	56.4'
19	47°04.5'	102°05.2'	S 19°33.1'	39°18.3'	13.3'	S 1°10.2'	11.0'	56.4'
20	62°07.0'	117°05.0'	S 19°32.5'	53°50.6'	13.3'	S 0°59.2'	11.0'	56.5'
21	77°09.4'	132°04.9'	S 19°31.9'	68°22.9'	13.3'	S 0°48.2'	11.0'	56.5'
22	92°11.9'	147°04.7'	S 19°31.3'	82°55.2'	13.2'	S 0°37.2'	11.0'	56.5'
23	107°14.4'	162°04.5'	S 19°30.7'	97°27.4'	13.2'	S 0°26.2'	11.0'	56.5'

Tue Jan 23, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.6' SD = 16.2'		SD = 15.5'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	122°16.8'	177°04.4'	S 19°30.2'	111°59.6'	13.2'	S 0°15.2'	11.0'	56.6'
1	137°19.3'	192°04.2'	S 19°29.6'	126°31.8'	13.2'	S 0°04.2'	11.0'	56.6'
2	152°21.8'	207°04.1'	S 19°29.0'	141°04.0'	13.1'	N 0°06.9'	11.1'	56.6'
3	167°24.2'	222°03.9'	S 19°28.4'	155°36.1'	13.1'	N 0°17.9'	11.1'	56.6'
4	182°26.7'	237°03.7'	S 19°27.8'	170°08.2'	13.1'	N 0°29.0'	11.1'	56.7'
5	197°29.2'	252°03.6'	S 19°27.2'	184°40.3'	13.0'	N 0°40.1'	11.1'	56.7'
6	212°31.6'	267°03.4'	S 19°26.7'	199°12.4'	13.0'	N 0°51.2'	11.1'	56.7'
7	227°34.1'	282°03.2'	S 19°26.1'	213°44.4'	13.0'	N 1°02.2'	11.1'	56.8'
8	242°36.6'	297°03.1'	S 19°25.5'	228°16.3'	12.9'	N 1°13.3'	11.1'	56.8'
9	257°39.0'	312°02.9'	S 19°24.9'	242°48.3'	12.9'	N 1°24.4'	11.1'	56.8'
10	272°41.5'	327°02.8'	S 19°24.3'	257°20.2'	12.9'	N 1°35.5'	11.1'	56.8'
11	287°43.9'	342°02.6'	S 19°23.7'	271°52.1'	12.8'	N 1°46.6'	11.1'	56.9'
12	302°46.4'	357°02.5'	S 19°23.1'	286°23.9'	12.8'	N 1°57.7'	11.1'	56.9'
13	317°48.9'	12°02.3'	S 19°22.5'	300°55.7'	12.8'	N 2°08.8'	11.1'	56.9'
14	332°51.3'	27°02.1'	S 19°21.9'	315°27.5'	12.7'	N 2°20.0'	11.1'	57.0'
15	347°53.8'	42°02.0'	S 19°21.3'	329°59.2'	12.7'	N 2°31.1'	11.1'	57.0'
16	2°56.3'	57°01.8'	S 19°20.8'	344°30.9'	12.7'	N 2°42.2'	11.1'	57.0'
17	17°58.7'	72°01.7'	S 19°20.2'	359°02.6'	12.6'	N 2°53.3'	11.1'	57.1'
18	33°01.2'	87°01.5'	S 19°19.6'	13°34.2'	12.6'	N 3°04.4'	11.1'	57.1'
19	48°03.7'	102°01.4'	S 19°19.0'	28°05.8'	12.5'	N 3°15.5'	11.1'	57.1'
20	63°06.1'	117°01.2'	S 19°18.4'	42°37.3'	12.5'	N 3°26.6'	11.1'	57.1'
21	78°08.6'	132°01.0'	S 19°17.8'	57°08.8'	12.4'	N 3°37.6'	11.1'	57.2'
22	93°11.0'	147°00.9'	S 19°17.2'	71°40.2'	12.4'	N 3°48.7'	11.1'	57.2'
23	108°13.5'	162°00.7'	S 19°16.6'	86°11.6'	12.3'	N 3°59.8'	11.1'	57.2'

Wed Jan 24, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.6' SD = 16.2'		SD = 15.7'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	123°16.0'	177°00.6'	S 19°16.0'	100°42.9'	12.3'	N 4°10.9'	11.1'	57.3'
1	138°18.4'	192°00.4'	S 19°15.4'	115°14.2'	12.3'	N 4°21.9'	11.0'	57.3'
2	153°20.9'	207°00.3'	S 19°14.8'	129°45.5'	12.2'	N 4°33.0'	11.0'	57.3'
3	168°23.4'	222°00.1'	S 19°14.2'	144°16.7'	12.2'	N 4°44.0'	11.0'	57.4'
4	183°25.8'	236°60.0'	S 19°13.6'	158°47.8'	12.1'	N 4°55.0'	11.0'	57.4'
5	198°28.3'	251°59.8'	S 19°13.0'	173°18.9'	12.1'	N 5°06.0'	11.0'	57.4'
6	213°30.8'	266°59.7'	S 19°12.4'	187°50.0'	12.0'	N 5°17.0'	11.0'	57.5'
7	228°33.2'	281°59.5'	S 19°11.8'	202°21.0'	11.9'	N 5°28.0'	11.0'	57.5'
8	243°35.7'	296°59.4'	S 19°11.2'	216°51.9'	11.9'	N 5°39.0'	11.0'	57.5'
9	258°38.2'	311°59.2'	S 19°10.6'	231°22.8'	11.8'	N 5°49.9'	10.9'	57.5'
10	273°40.6'	326°59.1'	S 19°10.0'	245°53.7'	11.8'	N 6°00.9'	10.9'	57.6'
11	288°43.1'	341°58.9'	S 19°09.4'	260°24.5'	11.7'	N 6°11.8'	10.9'	57.6'
12	303°45.5'	356°58.8'	S 19°08.8'	274°55.2'	11.7'	N 6°22.7'	10.9'	57.6'
13	318°48.0'	11°58.6'	S 19°08.2'	289°25.8'	11.6'	N 6°33.6'	10.9'	57.7'
14	333°50.5'	26°58.5'	S 19°07.6'	303°56.5'	11.5'	N 6°44.4'	10.8'	57.7'
15	348°52.9'	41°58.3'	S 19°06.9'	318°27.0'	11.5'	N 6°55.2'	10.8'	57.7'
16	3°55.4'	56°58.2'	S 19°06.3'	332°57.5'	11.4'	N 7°06.1'	10.8'	57.8'
17	18°57.9'	71°58.0'	S 19°05.7'	347°27.9'	11.4'	N 7°16.8'	10.8'	57.8'
18	34°00.3'	86°57.9'	S 19°05.1'	1°58.3'	11.3'	N 7°27.6'	10.7'	57.8'
19	49°02.8'	101°57.7'	S 19°04.5'	16°28.6'	11.2'	N 7°38.3'	10.7'	57.9'
20	64°05.3'	116°57.6'	S 19°03.9'	30°58.8'	11.2'	N 7°49.0'	10.7'	57.9'
21	79°07.7'	131°57.4'	S 19°03.3'	45°29.0'	11.1'	N 7°59.7'	10.6'	57.9'
22	94°10.2'	146°57.3'	S 19°02.7'	59°59.1'	11.0'	N 8°10.4'	10.6'	58.0'
23	109°12.7'	161°57.1'	S 19°02.1'	74°29.2'	11.0'	N 8°21.0'	10.6'	58.0'

Thu Jan 25, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.6' SD = 16.2'		SD = 15.9'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	124°15.1'	176°57.0'	S 19°01.5'	88°59.2'	10.9'	N 8°31.5'	10.5'	58.0'
1	139°17.6'	191°56.8'	S 19°00.8'	103°29.1'	10.8'	N 8°42.1'	10.5'	58.1'
2	154°20.0'	206°56.7'	S 19°00.2'	117°58.9'	10.8'	N 8°52.6'	10.5'	58.1'
3	169°22.5'	221°56.6'	S 18°59.6'	132°28.7'	10.7'	N 9°03.1'	10.4'	58.1'
4	184°25.0'	236°56.4'	S 18°59.0'	146°58.4'	10.6'	N 9°13.5'	10.4'	58.2'
5	199°27.4'	251°56.3'	S 18°58.4'	161°28.1'	10.6'	N 9°23.9'	10.4'	58.2'
6	214°29.9'	266°56.1'	S 18°57.8'	175°57.6'	10.5'	N 9°34.3'	10.3'	58.2'
7	229°32.4'	281°56.0'	S 18°57.2'	190°27.1'	10.4'	N 9°44.6'	10.3'	58.3'
8	244°34.8'	296°55.8'	S 18°56.5'	204°56.6'	10.4'	N 9°54.9'	10.2'	58.3'
9	259°37.3'	311°55.7'	S 18°55.9'	219°25.9'	10.3'	N 10°05.2'	10.2'	58.3'
10	274°39.8'	326°55.6'	S 18°55.3'	233°55.2'	10.2'	N 10°15.4'	10.2'	58.4'
11	289°42.2'	341°55.4'	S 18°54.7'	248°24.4'	10.1'	N 10°25.5'	10.1'	58.4'
12	304°44.7'	356°55.3'	S 18°54.1'	262°53.5'	10.1'	N 10°35.6'	10.1'	58.4'
13	319°47.1'	11°55.1'	S 18°53.4'	277°22.6'	10.0'	N 10°45.7'	10.0'	58.5'
14	334°49.6'	26°55.0'	S 18°52.8'	291°51.6'	9.9'	N 10°55.7'	10.0'	58.5'
15	349°52.1'	41°54.8'	S 18°52.2'	306°20.5'	9.8'	N 11°05.7'	9.9'	58.5'
16	4°54.5'	56°54.7'	S 18°51.6'	320°49.3'	9.7'	N 11°15.6'	9.9'	58.6'
17	19°57.0'	71°54.6'	S 18°51.0'	335°18.0'	9.7'	N 11°25.5'	9.8'	58.6'
18	34°59.5'	86°54.4'	S 18°50.3'	349°46.7'	9.6'	N 11°35.3'	9.8'	58.6'
19	50°01.9'	101°54.3'	S 18°49.7'	4°15.3'	9.5'	N 11°45.0'	9.7'	58.7'
20	65°04.4'	116°54.1'	S 18°49.1'	18°43.8'	9.4'	N 11°54.7'	9.6'	58.7'
21	80°06.9'	131°54.0'	S 18°48.5'	33°12.2'	9.3'	N 12°04.4'	9.6'	58.7'
22	95°09.3'	146°53.9'	S 18°47.8'	47°40.6'	9.3'	N 12°14.0'	9.5'	58.8'
23	110°11.8'	161°53.7'	S 18°47.2'	62°08.8'	9.2'	N 12°23.5'	9.5'	58.8'

Fri Jan 26, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.6' SD = 16.2'		SD = 16.1'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	125°14.3'	176°53.6'	S 18°46.6'	76°37.0'	9.1'	N 12°33.0'	9.4'	58.8'
1	140°16.7'	191°53.5'	S 18°46.0'	91°05.1'	9.0'	N 12°42.4'	9.3'	58.9'
2	155°19.2'	206°53.3'	S 18°45.3'	105°33.2'	8.9'	N 12°51.7'	9.3'	58.9'
3	170°21.6'	221°53.2'	S 18°44.7'	120°01.1'	8.9'	N 13°01.0'	9.2'	58.9'
4	185°24.1'	236°53.1'	S 18°44.1'	134°29.0'	8.8'	N 13°10.2'	9.1'	59.0'
5	200°26.6'	251°52.9'	S 18°43.4'	148°56.7'	8.7'	N 13°19.3'	9.1'	59.0'
6	215°29.0'	266°52.8'	S 18°42.8'	163°24.4'	8.6'	N 13°28.4'	9.0'	59.0'
7	230°31.5'	281°52.6'	S 18°42.2'	177°52.0'	8.5'	N 13°37.4'	8.9'	59.1'
8	245°34.0'	296°52.5'	S 18°41.5'	192°19.5'	8.4'	N 13°46.4'	8.9'	59.1'
9	260°36.4'	311°52.4'	S 18°40.9'	206°47.0'	8.3'	N 13°55.2'	8.8'	59.1'
10	275°38.9'	326°52.2'	S 18°40.3'	221°14.3'	8.3'	N 14°04.0'	8.7'	59.2'
11	290°41.4'	341°52.1'	S 18°39.6'	235°41.6'	8.2'	N 14°12.8'	8.6'	59.2'
12	305°43.8'	356°52.0'	S 18°39.0'	250°08.8'	8.1'	N 14°21.4'	8.6'	59.2'
13	320°46.3'	11°51.8'	S 18°38.4'	264°35.9'	8.0'	N 14°30.0'	8.5'	59.3'
14	335°48.8'	26°51.7'	S 18°37.7'	279°02.9'	7.9'	N 14°38.5'	8.4'	59.3'
15	350°51.2'	41°51.6'	S 18°37.1'	293°29.8'	7.8'	N 14°46.9'	8.3'	59.3'
16	5°53.7'	56°51.5'	S 18°36.5'	307°56.6'	7.7'	N 14°55.2'	8.2'	59.4'
17	20°56.1'	71°51.3'	S 18°35.8'	322°23.4'	7.7'	N 15°03.4'	8.2'	59.4'
18	35°58.6'	86°51.2'	S 18°35.2'	336°50.0'	7.6'	N 15°11.6'	8.1'	59.4'
19	51°01.1'	101°51.1'	S 18°34.6'	351°16.6'	7.5'	N 15°19.7'	8.0'	59.5'
20	66°03.5'	116°50.9'	S 18°33.9'	5°43.1'	7.4'	N 15°27.7'	7.9'	59.5'
21	81°06.0'	131°50.8'	S 18°33.3'	20°09.5'	7.3'	N 15°35.6'	7.8'	59.5'
22	96°08.5'	146°50.7'	S 18°32.6'	34°35.8'	7.2'	N 15°43.4'	7.7'	59.5'
23	111°10.9'	161°50.5'	S 18°32.0'	49°02.0'	7.1'	N 15°51.1'	7.6'	59.6'

Sat Jan 27, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.6' SD = 16.2'		SD = 16.4'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	126°13.4'	176°50.4'	S 18°31.4'	63°28.2'	7.1'	N 15°58.7'	7.5'	59.6'
1	141°15.9'	191°50.3'	S 18°30.7'	77°54.2'	7.0'	N 16°06.3'	7.4'	59.6'
2	156°18.3'	206°50.2'	S 18°30.1'	92°20.2'	6.9'	N 16°13.7'	7.3'	59.7'
3	171°20.8'	221°50.0'	S 18°29.4'	106°46.1'	6.8'	N 16°21.0'	7.2'	59.7'
4	186°23.3'	236°49.9'	S 18°28.8'	121°11.9'	6.7'	N 16°28.3'	7.1'	59.7'
5	201°25.7'	251°49.8'	S 18°28.2'	135°37.6'	6.6'	N 16°35.4'	7.0'	59.8'
6	216°28.2'	266°49.7'	S 18°27.5'	150°03.2'	6.5'	N 16°42.5'	6.9'	59.8'
7	231°30.6'	281°49.5'	S 18°26.9'	164°28.7'	6.5'	N 16°49.4'	6.8'	59.8'
8	246°33.1'	296°49.4'	S 18°26.2'	178°54.2'	6.4'	N 16°56.3'	6.7'	59.9'
9	261°35.6'	311°49.3'	S 18°25.6'	193°19.6'	6.3'	N 17°03.0'	6.6'	59.9'
10	276°38.0'	326°49.1'	S 18°24.9'	207°44.9'	6.2'	N 17°09.6'	6.5'	59.9'
11	291°40.5'	341°49.0'	S 18°24.3'	222°10.1'	6.1'	N 17°16.2'	6.4'	59.9'
12	306°43.0'	356°48.9'	S 18°23.6'	236°35.2'	6.0'	N 17°22.6'	6.3'	60.0'
13	321°45.4'	11°48.8'	S 18°23.0'	251°00.2'	6.0'	N 17°28.9'	6.2'	60.0'
14	336°47.9'	26°48.7'	S 18°22.3'	265°25.2'	5.9'	N 17°35.1'	6.1'	60.0'
15	351°50.4'	41°48.5'	S 18°21.7'	279°50.1'	5.8'	N 17°41.2'	6.0'	60.1'
16	6°52.8'	56°48.4'	S 18°21.0'	294°14.9'	5.7'	N 17°47.2'	5.9'	60.1'
17	21°55.3'	71°48.3'	S 18°20.4'	308°39.6'	5.6'	N 17°53.0'	5.7'	60.1'
18	36°57.7'	86°48.2'	S 18°19.7'	323°04.2'	5.6'	N 17°58.8'	5.6'	60.1'
19	52°00.2'	101°48.0'	S 18°19.1'	337°28.8'	5.5'	N 18°04.4'	5.5'	60.2'
20	67°02.7'	116°47.9'	S 18°18.4'	351°53.3'	5.4'	N 18°09.9'	5.4'	60.2'
21	82°05.1'	131°47.8'	S 18°17.8'	6°17.7'	5.3'	N 18°15.3'	5.3'	60.2'
22	97°07.6'	146°47.7'	S 18°17.1'	20°42.1'	5.3'	N 18°20.6'	5.1'	60.2'
23	112°10.1'	161°47.6'	S 18°16.5'	35°06.3'	5.2'	N 18°25.7'	5.0'	60.3'

Sun Jan 28, 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	127°12.5'	176°47.4'	S 18°15.8'	49°30.5'	5.1'	N 18°30.7'	4.9'	60.3'
1	142°15.0'	191°47.3'	S 18°15.2'	63°54.6'	5.0'	N 18°35.6'	4.8'	60.3'
2	157°17.5'	206°47.2'	S 18°14.5'	78°18.7'	5.0'	N 18°40.4'	4.7'	60.3'
3	172°19.9'	221°47.1'	S 18°13.8'	92°42.6'	4.9'	N 18°45.1'	4.5'	60.4'
4	187°22.4'	236°47.0'	S 18°13.2'	107°06.6'	4.8'	N 18°49.6'	4.4'	60.4'
5	202°24.9'	251°46.8'	S 18°12.5'	121°30.4'	4.8'	N 18°54.0'	4.3'	60.4'
6	217°27.3'	266°46.7'	S 18°11.9'	135°54.2'	4.7'	N 18°58.3'	4.1'	60.4'
7	232°29.8'	281°46.6'	S 18°11.2'	150°17.9'	4.6'	N 19°02.4'	4.0'	60.5'
8	247°32.2'	296°46.5'	S 18°10.6'	164°41.5'	4.6'	N 19°06.4'	3.9'	60.5'
9	262°34.7'	311°46.4'	S 18°09.9'	179°05.1'	4.5'	N 19°10.3'	3.7'	60.5'
10	277°37.2'	326°46.3'	S 18°09.2'	193°28.6'	4.5'	N 19°14.0'	3.6'	60.5'
11	292°39.6'	341°46.1'	S 18°08.6'	207°52.1'	4.4'	N 19°17.6'	3.5'	60.5'
12	307°42.1'	356°46.0'	S 18°07.9'	222°15.4'	4.3'	N 19°21.1'	3.3'	60.6'
13	322°44.6'	11°45.9'	S 18°07.2'	236°38.8'	4.3'	N 19°24.4'	3.2'	60.6'
14	337°47.0'	26°45.8'	S 18°06.6'	251°02.1'	4.2'	N 19°27.6'	3.1'	60.6'
15	352°49.5'	41°45.7'	S 18°05.9'	265°25.3'	4.2'	N 19°30.7'	2.9'	60.6'
16	7°52.0'	56°45.6'	S 18°05.3'	279°48.5'	4.1'	N 19°33.6'	2.8'	60.7'
17	22°54.4'	71°45.5'	S 18°04.6'	294°11.6'	4.1'	N 19°36.4'	2.6'	60.7'
18	37°56.9'	86°45.3'	S 18°03.9'	308°34.6'	4.0'	N 19°39.0'	2.5'	60.7'
19	52°59.4'	101°45.2'	S 18°03.3'	322°57.7'	4.0'	N 19°41.5'	2.4'	60.7'
20	68°01.8'	116°45.1'	S 18°02.6'	337°20.6'	3.9'	N 19°43.8'	2.2'	60.7'
21	83°04.3'	131°45.0'	S 18°01.9'	351°43.6'	3.9'	N 19°46.1'	2.1'	60.7'
22	98°06.7'	146°44.9'	S 18°01.3'	6°06.4'	3.8'	N 19°48.1'	1.9'	60.8'
23	113°09.2'	161°44.8'	S 18°00.6'	20°29.3'	3.8'	N 19°50.0'	1.8'	60.8'

Mon Jan 29, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.7' SD = 16.2'		SD = 16.6'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	128°11.7'	176°44.7'	S 17°59.9'	34°52.1'	3.8'	N 19°51.8'	1.6'	60.8'
1	143°14.1'	191°44.6'	S 17°59.3'	49°14.8'	3.7'	N 19°53.5'	1.5'	60.8'
2	158°16.6'	206°44.4'	S 17°58.6'	63°37.6'	3.7'	N 19°54.9'	1.3'	60.8'
3	173°19.1'	221°44.3'	S 17°57.9'	78°00.3'	3.7'	N 19°56.3'	1.2'	60.8'
4	188°21.5'	236°44.2'	S 17°57.3'	92°22.9'	3.6'	N 19°57.5'	1.0'	60.9'
5	203°24.0'	251°44.1'	S 17°56.6'	106°45.5'	3.6'	N 19°58.5'	0.9'	60.9'
6	218°26.5'	266°44.0'	S 17°55.9'	121°08.1'	3.6'	N 19°59.4'	0.8'	60.9'
7	233°28.9'	281°43.9'	S 17°55.2'	135°30.7'	3.5'	N 20°00.2'	0.6'	60.9'
8	248°31.4'	296°43.8'	S 17°54.6'	149°53.2'	3.5'	N 20°00.8'	0.5'	60.9'
9	263°33.9'	311°43.7'	S 17°53.9'	164°15.7'	3.5'	N 20°01.2'	0.3'	60.9'
10	278°36.3'	326°43.6'	S 17°53.2'	178°38.2'	3.5'	N 20°01.5'	0.2'	60.9'
11	293°38.8'	341°43.5'	S 17°52.5'	193°00.7'	3.5'	N 20°01.7'	0.0'	61.0'
12	308°41.2'	356°43.4'	S 17°51.9'	207°23.1'	3.4'	N 20°01.7'	0.1'	61.0'
13	323°43.7'	11°43.2'	S 17°51.2'	221°45.6'	3.4'	N 20°01.6'	0.3'	61.0'
14	338°46.2'	26°43.1'	S 17°50.5'	236°08.0'	3.4'	N 20°01.3'	0.4'	61.0'
15	353°48.6'	41°43.0'	S 17°49.8'	250°30.4'	3.4'	N 20°00.8'	0.6'	61.0'
16	8°51.1'	56°42.9'	S 17°49.2'	264°52.8'	3.4'	N 20°00.2'	0.7'	61.0'
17	23°53.6'	71°42.8'	S 17°48.5'	279°15.2'	3.4'	N 19°59.5'	0.9'	61.0'
18	38°56.0'	86°42.7'	S 17°47.8'	293°37.6'	3.4'	N 19°58.6'	1.0'	61.0'
19	53°58.5'	101°42.6'	S 17°47.1'	307°59.9'	3.4'	N 19°57.5'	1.2'	61.0'
20	69°01.0'	116°42.5'	S 17°46.4'	322°22.3'	3.4'	N 19°56.3'	1.3'	61.0'
21	84°03.4'	131°42.4'	S 17°45.8'	336°44.7'	3.4'	N 19°55.0'	1.5'	61.0'
22	99°05.9'	146°42.3'	S 17°45.1'	351°07.0'	3.4'	N 19°53.5'	1.6'	61.0'
23	114°08.4'	161°42.2'	S 17°44.4'	5°29.4'	3.4'	N 19°51.9'	1.8'	61.1'

Tue Jan 30, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.7' SD = 16.2'		SD = 16.7'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	129°10.8'	176°42.1'	S 17°43.7'	19°51.8'	3.4'	N 19°50.1'	1.9'	61.1'
1	144°13.3'	191°42.0'	S 17°43.0'	34°14.2'	3.4'	N 19°48.1'	2.1'	61.1'
2	159°15.7'	206°41.9'	S 17°42.4'	48°36.6'	3.4'	N 19°46.0'	2.2'	61.1'
3	174°18.2'	221°41.8'	S 17°41.7'	62°59.0'	3.4'	N 19°43.8'	2.4'	61.1'
4	189°20.7'	236°41.7'	S 17°41.0'	77°21.4'	3.4'	N 19°41.4'	2.5'	61.1'
5	204°23.1'	251°41.6'	S 17°40.3'	91°43.8'	3.4'	N 19°38.8'	2.7'	61.1'
6	219°25.6'	266°41.5'	S 17°39.6'	106°06.3'	3.5'	N 19°36.1'	2.8'	61.1'
7	234°28.1'	281°41.4'	S 17°38.9'	120°28.7'	3.5'	N 19°33.3'	3.0'	61.1'
8	249°30.5'	296°41.3'	S 17°38.3'	134°51.2'	3.5'	N 19°30.3'	3.1'	61.1'
9	264°33.0'	311°41.2'	S 17°37.6'	149°13.7'	3.5'	N 19°27.2'	3.3'	61.1'
10	279°35.5'	326°41.1'	S 17°36.9'	163°36.3'	3.6'	N 19°23.9'	3.4'	61.1'
11	294°37.9'	341°41.0'	S 17°36.2'	177°58.8'	3.6'	N 19°20.5'	3.6'	61.1'
12	309°40.4'	356°40.9'	S 17°35.5'	192°21.4'	3.6'	N 19°16.9'	3.7'	61.1'
13	324°42.9'	11°40.8'	S 17°34.8'	206°44.0'	3.6'	N 19°13.2'	3.9'	61.1'
14	339°45.3'	26°40.7'	S 17°34.1'	221°06.7'	3.7'	N 19°09.4'	4.0'	61.1'
15	354°47.8'	41°40.6'	S 17°33.4'	235°29.4'	3.7'	N 19°05.4'	4.1'	61.1'
16	9°50.2'	56°40.5'	S 17°32.7'	249°52.1'	3.8'	N 19°01.2'	4.3'	61.1'
17	24°52.7'	71°40.4'	S 17°32.1'	264°14.8'	3.8'	N 18°57.0'	4.4'	61.1'
18	39°55.2'	86°40.3'	S 17°31.4'	278°37.6'	3.8'	N 18°52.5'	4.6'	61.1'
19	54°57.6'	101°40.2'	S 17°30.7'	293°00.4'	3.9'	N 18°48.0'	4.7'	61.1'
20	70°00.1'	116°40.1'	S 17°30.0'	307°23.3'	3.9'	N 18°43.3'	4.8'	61.0'
21	85°02.6'	131°40.0'	S 17°29.3'	321°46.2'	4.0'	N 18°38.5'	5.0'	61.0'
22	100°05.0'	146°39.9'	S 17°28.6'	336°09.2'	4.0'	N 18°33.5'	5.1'	61.0'
23	115°07.5'	161°39.8'	S 17°27.9'	350°32.2'	4.1'	N 18°28.4'	5.2'	61.0'

Wed Jan 31, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.7' SD = 16.2'		SD = 16.6'				
		GHA	dec	GHA	v	dec	d	HP
0	130°10.0'	176°39.7'	S 17°27.2'	4°55.2'	4.1'	N 18°23.1'	5.4'	61.0'
1	145°12.4'	191°39.6'	S 17°26.5'	19°18.3'	4.2'	N 18°17.8'	5.5'	61.0'
2	160°14.9'	206°39.6'	S 17°25.8'	33°41.5'	4.2'	N 18°12.2'	5.6'	61.0'
3	175°17.3'	221°39.5'	S 17°25.1'	48°04.7'	4.3'	N 18°06.6'	5.8'	61.0'
4	190°19.8'	236°39.4'	S 17°24.4'	62°28.0'	4.3'	N 18°00.8'	5.9'	61.0'
5	205°22.3'	251°39.3'	S 17°23.7'	76°51.3'	4.4'	N 17°54.9'	6.0'	61.0'
6	220°24.7'	266°39.2'	S 17°23.0'	91°14.7'	4.4'	N 17°48.9'	6.2'	61.0'
7	235°27.2'	281°39.1'	S 17°22.3'	105°38.1'	4.5'	N 17°42.7'	6.3'	60.9'
8	250°29.7'	296°39.0'	S 17°21.6'	120°01.6'	4.5'	N 17°36.5'	6.4'	60.9'
9	265°32.1'	311°38.9'	S 17°20.9'	134°25.1'	4.6'	N 17°30.1'	6.5'	60.9'
10	280°34.6'	326°38.8'	S 17°20.2'	148°48.7'	4.7'	N 17°23.5'	6.7'	60.9'
11	295°37.1'	341°38.7'	S 17°19.5'	163°12.4'	4.7'	N 17°16.9'	6.8'	60.9'
12	310°39.5'	356°38.6'	S 17°18.8'	177°36.1'	4.8'	N 17°10.1'	6.9'	60.9'
13	325°42.0'	11°38.5'	S 17°18.1'	191°59.9'	4.9'	N 17°03.2'	7.0'	60.9'
14	340°44.5'	26°38.5'	S 17°17.4'	206°23.8'	4.9'	N 16°56.2'	7.1'	60.8'
15	355°46.9'	41°38.4'	S 17°16.7'	220°47.8'	5.0'	N 16°49.1'	7.2'	60.8'
16	10°49.4'	56°38.3'	S 17°16.0'	235°11.8'	5.1'	N 16°41.8'	7.4'	60.8'
17	25°51.8'	71°38.2'	S 17°15.3'	249°35.8'	5.1'	N 16°34.5'	7.5'	60.8'
18	40°54.3'	86°38.1'	S 17°14.6'	263°60.0'	5.2'	N 16°27.0'	7.6'	60.8'
19	55°56.8'	101°38.0'	S 17°13.9'	278°24.2'	5.3'	N 16°19.4'	7.7'	60.8'
20	70°59.2'	116°37.9'	S 17°13.2'	292°48.5'	5.4'	N 16°11.7'	7.8'	60.7'
21	86°01.7'	131°37.8'	S 17°12.5'	307°12.8'	5.4'	N 16°03.9'	7.9'	60.7'
22	101°04.2'	146°37.8'	S 17°11.8'	321°37.3'	5.5'	N 15°56.0'	8.0'	60.7'
23	116°06.6'	161°37.7'	S 17°11.1'	336°01.8'	5.6'	N 15°48.0'	8.1'	60.7'