

Tue Jan 1, 2019 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.2' SD = 16.3'		SD = 15.4'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	100°21.4'	179°12.0'	S 23°02.3'	238°51.3'	12.3'	S 10°42.3'	10.4'	56.6'
1	115°23.9'	194°11.7'	S 23°02.1'	253°22.6'	12.2'	S 10°52.7'	10.3'	56.6'
2	130°26.3'	209°11.4'	S 23°01.9'	267°53.8'	12.2'	S 11°03.1'	10.3'	56.6'
3	145°28.8'	224°11.1'	S 23°01.7'	282°25.0'	12.2'	S 11°13.3'	10.2'	56.5'
4	160°31.3'	239°10.8'	S 23°01.5'	296°56.3'	12.2'	S 11°23.6'	10.2'	56.5'
5	175°33.7'	254°10.5'	S 23°01.3'	311°27.5'	12.2'	S 11°33.7'	10.1'	56.5'
6	190°36.2'	269°10.2'	S 23°01.1'	325°58.7'	12.2'	S 11°43.8'	10.0'	56.5'
7	205°38.7'	284°09.9'	S 23°00.9'	340°29.9'	12.2'	S 11°53.9'	10.0'	56.5'
8	220°41.1'	299°09.6'	S 23°00.7'	355°01.0'	12.2'	S 12°03.8'	9.9'	56.4'
9	235°43.6'	314°09.3'	S 23°00.5'	9°32.2'	12.1'	S 12°13.7'	9.8'	56.4'
10	250°46.0'	329°09.0'	S 23°00.3'	24°03.3'	12.1'	S 12°23.6'	9.8'	56.4'
11	265°48.5'	344°08.7'	S 23°00.1'	38°34.4'	12.1'	S 12°33.3'	9.7'	56.4'
12	280°51.0'	359°08.4'	S 22°59.9'	53°05.5'	12.1'	S 12°43.1'	9.6'	56.3'
13	295°53.4'	14°08.2'	S 22°59.7'	67°36.6'	12.1'	S 12°52.7'	9.6'	56.3'
14	310°55.9'	29°07.9'	S 22°59.5'	82°07.7'	12.1'	S 13°02.3'	9.5'	56.3'
15	325°58.4'	44°07.6'	S 22°59.3'	96°38.7'	12.0'	S 13°11.7'	9.4'	56.3'
16	341°00.8'	59°07.3'	S 22°59.1'	111°09.8'	12.0'	S 13°21.2'	9.4'	56.2'
17	356°03.3'	74°07.0'	S 22°58.9'	125°40.8'	12.0'	S 13°30.5'	9.3'	56.2'
18	11°05.8'	89°06.7'	S 22°58.7'	140°11.8'	12.0'	S 13°39.8'	9.2'	56.2'
19	26°08.2'	104°06.4'	S 22°58.5'	154°42.8'	12.0'	S 13°49.0'	9.1'	56.2'
20	41°10.7'	119°06.1'	S 22°58.3'	169°13.7'	11.9'	S 13°58.2'	9.1'	56.2'
21	56°13.1'	134°05.8'	S 22°58.0'	183°44.7'	11.9'	S 14°07.2'	9.0'	56.1'
22	71°15.6'	149°05.5'	S 22°57.8'	198°15.6'	11.9'	S 14°16.2'	8.9'	56.1'
23	86°18.1'	164°05.2'	S 22°57.6'	212°46.5'	11.9'	S 14°25.1'	8.8'	56.1'

Wed Jan 2, 2019 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.2' SD = 16.3'		SD = 15.2'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	101°20.5'	179°04.9'	S 22°57.4'	227°17.4'	11.9'	S 14°33.9'	8.8'	56.1'
1	116°23.0'	194°04.6'	S 22°57.2'	241°48.2'	11.8'	S 14°42.7'	8.7'	56.0'
2	131°25.5'	209°04.3'	S 22°57.0'	256°19.1'	11.8'	S 14°51.4'	8.6'	56.0'
3	146°27.9'	224°04.0'	S 22°56.7'	270°49.9'	11.8'	S 14°60.0'	8.5'	56.0'
4	161°30.4'	239°03.7'	S 22°56.5'	285°20.7'	11.8'	S 15°08.5'	8.4'	56.0'
5	176°32.9'	254°03.4'	S 22°56.3'	299°51.5'	11.8'	S 15°17.0'	8.4'	56.0'
6	191°35.3'	269°03.1'	S 22°56.1'	314°22.3'	11.7'	S 15°25.3'	8.3'	55.9'
7	206°37.8'	284°02.9'	S 22°55.9'	328°53.0'	11.7'	S 15°33.6'	8.2'	55.9'
8	221°40.3'	299°02.6'	S 22°55.7'	343°23.7'	11.7'	S 15°41.8'	8.1'	55.9'
9	236°42.7'	314°02.3'	S 22°55.4'	357°54.4'	11.7'	S 15°49.9'	8.0'	55.9'
10	251°45.2'	329°02.0'	S 22°55.2'	12°25.1'	11.7'	S 15°58.0'	8.0'	55.9'
11	266°47.6'	344°01.7'	S 22°55.0'	26°55.7'	11.6'	S 16°05.9'	7.9'	55.8'
12	281°50.1'	359°01.4'	S 22°54.8'	41°26.4'	11.6'	S 16°13.8'	7.8'	55.8'
13	296°52.6'	14°01.1'	S 22°54.5'	55°57.0'	11.6'	S 16°21.6'	7.7'	55.8'
14	311°55.0'	29°00.8'	S 22°54.3'	70°27.6'	11.6'	S 16°29.3'	7.6'	55.8'
15	326°57.5'	44°00.5'	S 22°54.1'	84°58.1'	11.5'	S 16°36.9'	7.5'	55.8'
16	341°60.0'	59°00.2'	S 22°53.9'	99°28.7'	11.5'	S 16°44.5'	7.4'	55.7'
17	357°02.4'	73°59.9'	S 22°53.6'	113°59.2'	11.5'	S 16°51.9'	7.4'	55.7'
18	12°04.9'	88°59.6'	S 22°53.4'	128°29.7'	11.5'	S 16°59.3'	7.3'	55.7'
19	27°07.4'	103°59.3'	S 22°53.2'	143°00.2'	11.5'	S 17°06.5'	7.2'	55.7'
20	42°09.8'	118°59.1'	S 22°52.9'	157°30.6'	11.4'	S 17°13.7'	7.1'	55.7'
21	57°12.3'	133°58.8'	S 22°52.7'	172°01.1'	11.4'	S 17°20.8'	7.0'	55.6'
22	72°14.8'	148°58.5'	S 22°52.5'	186°31.5'	11.4'	S 17°27.8'	6.9'	55.6'
23	87°17.2'	163°58.2'	S 22°52.2'	201°01.9'	11.4'	S 17°34.8'	6.8'	55.6'

Thu Jan 3, 2019 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.2' SD = 16.3'		SD = 15.1'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	102°19.7'	178°57.9'	S 22°52.0'	215°32.3'	11.4'	S 17°41.6'	6.7'	55.6'
1	117°22.1'	193°57.6'	S 22°51.8'	230°02.6'	11.3'	S 17°48.3'	6.6'	55.6'
2	132°24.6'	208°57.3'	S 22°51.5'	244°33.0'	11.3'	S 17°55.0'	6.6'	55.5'
3	147°27.1'	223°57.0'	S 22°51.3'	259°03.3'	11.3'	S 18°01.5'	6.5'	55.5'
4	162°29.5'	238°56.7'	S 22°51.1'	273°33.6'	11.3'	S 18°08.0'	6.4'	55.5'
5	177°32.0'	253°56.4'	S 22°50.8'	288°03.8'	11.3'	S 18°14.3'	6.3'	55.5'
6	192°34.5'	268°56.1'	S 22°50.6'	302°34.1'	11.2'	S 18°20.6'	6.2'	55.5'
7	207°36.9'	283°55.9'	S 22°50.3'	317°04.3'	11.2'	S 18°26.8'	6.1'	55.4'
8	222°39.4'	298°55.6'	S 22°50.1'	331°34.5'	11.2'	S 18°32.9'	6.0'	55.4'
9	237°41.9'	313°55.3'	S 22°49.9'	346°04.7'	11.2'	S 18°38.9'	5.9'	55.4'
10	252°44.3'	328°55.0'	S 22°49.6'	0°34.9'	11.2'	S 18°44.8'	5.8'	55.4'
11	267°46.8'	343°54.7'	S 22°49.4'	15°05.1'	11.1'	S 18°50.6'	5.7'	55.4'
12	282°49.3'	358°54.4'	S 22°49.1'	29°35.2'	11.1'	S 18°56.3'	5.6'	55.4'
13	297°51.7'	13°54.1'	S 22°48.9'	44°05.3'	11.1'	S 19°01.9'	5.5'	55.3'
14	312°54.2'	28°53.8'	S 22°48.6'	58°35.4'	11.1'	S 19°07.4'	5.4'	55.3'
15	327°56.6'	43°53.5'	S 22°48.4'	73°05.5'	11.1'	S 19°12.8'	5.3'	55.3'
16	342°59.1'	58°53.3'	S 22°48.2'	87°35.6'	11.1'	S 19°18.1'	5.2'	55.3'
17	358°01.6'	73°53.0'	S 22°47.9'	102°05.6'	11.0'	S 19°23.3'	5.1'	55.3'
18	13°04.0'	88°52.7'	S 22°47.7'	116°35.7'	11.0'	S 19°28.5'	5.0'	55.2'
19	28°06.5'	103°52.4'	S 22°47.4'	131°05.7'	11.0'	S 19°33.5'	4.9'	55.2'
20	43°09.0'	118°52.1'	S 22°47.2'	145°35.7'	11.0'	S 19°38.4'	4.8'	55.2'
21	58°11.4'	133°51.8'	S 22°46.9'	160°05.7'	11.0'	S 19°43.2'	4.7'	55.2'
22	73°13.9'	148°51.5'	S 22°46.7'	174°35.7'	11.0'	S 19°47.9'	4.6'	55.2'
23	88°16.4'	163°51.2'	S 22°46.4'	189°05.6'	10.9'	S 19°52.6'	4.5'	55.2'

Fri Jan 4, 2019 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.3' SD = 16.3'		SD = 15.0'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	103°18.8'	178°51.0'	S 22°46.2'	203°35.6'	10.9'	S 19°57.1'	4.4'	55.1'
1	118°21.3'	193°50.7'	S 22°45.9'	218°05.5'	10.9'	S 20°01.5'	4.3'	55.1'
2	133°23.7'	208°50.4'	S 22°45.6'	232°35.5'	10.9'	S 20°05.8'	4.2'	55.1'
3	148°26.2'	223°50.1'	S 22°45.4'	247°05.4'	10.9'	S 20°10.0'	4.1'	55.1'
4	163°28.7'	238°49.8'	S 22°45.1'	261°35.3'	10.9'	S 20°14.2'	4.0'	55.1'
5	178°31.1'	253°49.5'	S 22°44.9'	276°05.2'	10.9'	S 20°18.2'	3.9'	55.1'
6	193°33.6'	268°49.2'	S 22°44.6'	290°35.0'	10.9'	S 20°22.1'	3.8'	55.0'
7	208°36.1'	283°49.0'	S 22°44.4'	305°04.9'	10.9'	S 20°25.9'	3.7'	55.0'
8	223°38.5'	298°48.7'	S 22°44.1'	319°34.8'	10.9'	S 20°29.6'	3.6'	55.0'
9	238°41.0'	313°48.4'	S 22°43.8'	334°04.6'	10.8'	S 20°33.2'	3.5'	55.0'
10	253°43.5'	328°48.1'	S 22°43.6'	348°34.5'	10.8'	S 20°36.7'	3.4'	55.0'
11	268°45.9'	343°47.8'	S 22°43.3'	3°04.3'	10.8'	S 20°40.1'	3.3'	55.0'
12	283°48.4'	358°47.5'	S 22°43.1'	17°34.1'	10.8'	S 20°43.4'	3.2'	55.0'
13	298°50.9'	13°47.2'	S 22°42.8'	32°03.9'	10.8'	S 20°46.6'	3.1'	54.9'
14	313°53.3'	28°47.0'	S 22°42.5'	46°33.8'	10.8'	S 20°49.6'	3.0'	54.9'
15	328°55.8'	43°46.7'	S 22°42.3'	61°03.6'	10.8'	S 20°52.6'	2.9'	54.9'
16	343°58.2'	58°46.4'	S 22°42.0'	75°33.4'	10.8'	S 20°55.5'	2.8'	54.9'
17	359°00.7'	73°46.1'	S 22°41.7'	90°03.2'	10.8'	S 20°58.3'	2.7'	54.9'
18	14°03.2'	88°45.8'	S 22°41.5'	104°33.0'	10.8'	S 21°00.9'	2.6'	54.9'
19	29°05.6'	103°45.5'	S 22°41.2'	119°02.8'	10.8'	S 21°03.5'	2.5'	54.8'
20	44°08.1'	118°45.3'	S 22°40.9'	133°32.6'	10.8'	S 21°05.9'	2.3'	54.8'
21	59°10.6'	133°45.0'	S 22°40.7'	148°02.4'	10.8'	S 21°08.3'	2.2'	54.8'
22	74°13.0'	148°44.7'	S 22°40.4'	162°32.1'	10.8'	S 21°10.5'	2.1'	54.8'
23	89°15.5'	163°44.4'	S 22°40.1'	177°01.9'	10.8'	S 21°12.7'	2.0'	54.8'

Sat Jan 5, 2019 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.3' SD = 16.3'		SD = 14.9'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	104°18.0'	178°44.1'	S 22°39.9'	191°31.7'	10.8'	S 21°14.7'	1.9'	54.8'
1	119°20.4'	193°43.8'	S 22°39.6'	206°01.5'	10.8'	S 21°16.6'	1.8'	54.8'
2	134°22.9'	208°43.6'	S 22°39.3'	220°31.3'	10.8'	S 21°18.4'	1.7'	54.7'
3	149°25.4'	223°43.3'	S 22°39.0'	235°01.1'	10.8'	S 21°20.1'	1.6'	54.7'
4	164°27.8'	238°43.0'	S 22°38.8'	249°30.9'	10.8'	S 21°21.7'	1.5'	54.7'
5	179°30.3'	253°42.7'	S 22°38.5'	264°00.7'	10.8'	S 21°23.2'	1.4'	54.7'
6	194°32.7'	268°42.4'	S 22°38.2'	278°30.5'	10.8'	S 21°24.6'	1.3'	54.7'
7	209°35.2'	283°42.1'	S 22°37.9'	293°00.3'	10.8'	S 21°25.9'	1.2'	54.7'
8	224°37.7'	298°41.9'	S 22°37.7'	307°30.2'	10.8'	S 21°27.1'	1.1'	54.7'
9	239°40.1'	313°41.6'	S 22°37.4'	321°60.0'	10.8'	S 21°28.2'	1.0'	54.7'
10	254°42.6'	328°41.3'	S 22°37.1'	336°29.8'	10.8'	S 21°29.2'	0.9'	54.6'
11	269°45.1'	343°41.0'	S 22°36.8'	350°59.7'	10.9'	S 21°30.0'	0.8'	54.6'
12	284°47.5'	358°40.7'	S 22°36.5'	5°29.5'	10.9'	S 21°30.8'	0.7'	54.6'
13	299°50.0'	13°40.5'	S 22°36.3'	19°59.4'	10.9'	S 21°31.4'	0.5'	54.6'
14	314°52.5'	28°40.2'	S 22°36.0'	34°29.3'	10.9'	S 21°32.0'	0.4'	54.6'
15	329°54.9'	43°39.9'	S 22°35.7'	48°59.1'	10.9'	S 21°32.4'	0.3'	54.6'
16	344°57.4'	58°39.6'	S 22°35.4'	63°29.0'	10.9'	S 21°32.8'	0.2'	54.6'
17	359°59.9'	73°39.3'	S 22°35.1'	77°58.9'	10.9'	S 21°33.0'	0.1'	54.6'
18	15°02.3'	88°39.1'	S 22°34.8'	92°28.9'	10.9'	S 21°33.1'	0.0'	54.5'
19	30°04.8'	103°38.8'	S 22°34.5'	106°58.8'	10.9'	S 21°33.2'	0.1'	54.5'
20	45°07.2'	118°38.5'	S 22°34.3'	121°28.7'	11.0'	S 21°33.1'	0.2'	54.5'
21	60°09.7'	133°38.2'	S 22°34.0'	135°58.7'	11.0'	S 21°32.9'	0.3'	54.5'
22	75°12.2'	148°38.0'	S 22°33.7'	150°28.7'	11.0'	S 21°32.6'	0.4'	54.5'
23	90°14.6'	163°37.7'	S 22°33.4'	164°58.7'	11.0'	S 21°32.2'	0.5'	54.5'

Sun Jan 6, 2019 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.3' SD = 16.3'		SD = 14.8'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	105°17.1'	178°37.4'	S 22°33.1'	179°28.7'	11.0'	S 21°31.7'	0.6'	54.5'
1	120°19.6'	193°37.1'	S 22°32.8'	193°58.7'	11.1'	S 21°31.1'	0.7'	54.5'
2	135°22.0'	208°36.8'	S 22°32.5'	208°28.8'	11.1'	S 21°30.4'	0.8'	54.4'
3	150°24.5'	223°36.6'	S 22°32.2'	222°58.8'	11.1'	S 21°29.6'	0.9'	54.4'
4	165°27.0'	238°36.3'	S 22°31.9'	237°28.9'	11.1'	S 21°28.6'	1.0'	54.4'
5	180°29.4'	253°36.0'	S 22°31.6'	251°59.0'	11.1'	S 21°27.6'	1.1'	54.4'
6	195°31.9'	268°35.7'	S 22°31.3'	266°29.2'	11.2'	S 21°26.5'	1.2'	54.4'
7	210°34.4'	283°35.5'	S 22°31.0'	280°59.3'	11.2'	S 21°25.3'	1.3'	54.4'
8	225°36.8'	298°35.2'	S 22°30.8'	295°29.5'	11.2'	S 21°23.9'	1.4'	54.4'
9	240°39.3'	313°34.9'	S 22°30.5'	309°59.7'	11.2'	S 21°22.5'	1.5'	54.4'
10	255°41.7'	328°34.6'	S 22°30.2'	324°29.9'	11.2'	S 21°21.0'	1.6'	54.4'
11	270°44.2'	343°34.3'	S 22°29.9'	339°00.2'	11.3'	S 21°19.3'	1.7'	54.3'
12	285°46.7'	358°34.1'	S 22°29.6'	353°30.4'	11.3'	S 21°17.6'	1.8'	54.3'
13	300°49.1'	13°33.8'	S 22°29.3'	8°00.7'	11.3'	S 21°15.8'	1.9'	54.3'
14	315°51.6'	28°33.5'	S 22°29.0'	22°31.1'	11.4'	S 21°13.8'	2.0'	54.3'
15	330°54.1'	43°33.2'	S 22°28.7'	37°01.4'	11.4'	S 21°11.8'	2.1'	54.3'
16	345°56.5'	58°33.0'	S 22°28.4'	51°31.8'	11.4'	S 21°09.7'	2.2'	54.3'
17	0°59.0'	73°32.7'	S 22°28.1'	66°02.2'	11.4'	S 21°07.4'	2.3'	54.3'
18	16°01.5'	88°32.4'	S 22°27.7'	80°32.6'	11.5'	S 21°05.1'	2.4'	54.3'
19	31°03.9'	103°32.1'	S 22°27.4'	95°03.1'	11.5'	S 21°02.6'	2.5'	54.3'
20	46°06.4'	118°31.9'	S 22°27.1'	109°33.6'	11.5'	S 21°00.1'	2.6'	54.3'
21	61°08.8'	133°31.6'	S 22°26.8'	124°04.1'	11.6'	S 20°57.5'	2.7'	54.3'
22	76°11.3'	148°31.3'	S 22°26.5'	138°34.7'	11.6'	S 20°54.7'	2.8'	54.2'
23	91°13.8'	163°31.0'	S 22°26.2'	153°05.3'	11.6'	S 20°51.9'	2.9'	54.2'

Mon Jan 7, 2019 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.3' SD = 16.3'		SD = 14.8'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	106°16.2'	178°30.8'	S 22°25.9'	167°35.9'	11.6'	S 20°49.0'	3.0'	54.2'
1	121°18.7'	193°30.5'	S 22°25.6'	182°06.5'	11.7'	S 20°46.0'	3.1'	54.2'
2	136°21.2'	208°30.2'	S 22°25.3'	196°37.2'	11.7'	S 20°42.8'	3.2'	54.2'
3	151°23.6'	223°30.0'	S 22°25.0'	211°07.9'	11.7'	S 20°39.6'	3.3'	54.2'
4	166°26.1'	238°29.7'	S 22°24.7'	225°38.7'	11.8'	S 20°36.3'	3.4'	54.2'
5	181°28.6'	253°29.4'	S 22°24.4'	240°09.4'	11.8'	S 20°32.9'	3.5'	54.2'
6	196°31.0'	268°29.1'	S 22°24.0'	254°40.3'	11.9'	S 20°29.4'	3.6'	54.2'
7	211°33.5'	283°28.9'	S 22°23.7'	269°11.1'	11.9'	S 20°25.8'	3.7'	54.2'
8	226°36.0'	298°28.6'	S 22°23.4'	283°42.0'	11.9'	S 20°22.1'	3.8'	54.2'
9	241°38.4'	313°28.3'	S 22°23.1'	298°12.9'	12.0'	S 20°18.3'	3.9'	54.2'
10	256°40.9'	328°28.1'	S 22°22.8'	312°43.9'	12.0'	S 20°14.5'	4.0'	54.1'
11	271°43.3'	343°27.8'	S 22°22.5'	327°14.9'	12.0'	S 20°10.5'	4.1'	54.1'
12	286°45.8'	358°27.5'	S 22°22.1'	341°45.9'	12.1'	S 20°06.4'	4.2'	54.1'
13	301°48.3'	13°27.2'	S 22°21.8'	356°17.0'	12.1'	S 20°02.3'	4.2'	54.1'
14	316°50.7'	28°27.0'	S 22°21.5'	10°48.1'	12.1'	S 19°58.0'	4.3'	54.1'
15	331°53.2'	43°26.7'	S 22°21.2'	25°19.2'	12.2'	S 19°53.7'	4.4'	54.1'
16	346°55.7'	58°26.4'	S 22°20.9'	39°50.4'	12.2'	S 19°49.3'	4.5'	54.1'
17	1°58.1'	73°26.2'	S 22°20.5'	54°21.6'	12.3'	S 19°44.8'	4.6'	54.1'
18	17°00.6'	88°25.9'	S 22°20.2'	68°52.9'	12.3'	S 19°40.2'	4.7'	54.1'
19	32°03.1'	103°25.6'	S 22°19.9'	83°24.2'	12.3'	S 19°35.5'	4.8'	54.1'
20	47°05.5'	118°25.4'	S 22°19.6'	97°55.5'	12.4'	S 19°30.7'	4.9'	54.1'
21	62°08.0'	133°25.1'	S 22°19.2'	112°26.9'	12.4'	S 19°25.9'	4.9'	54.1'
22	77°10.5'	148°24.8'	S 22°18.9'	126°58.3'	12.5'	S 19°20.9'	5.0'	54.1'
23	92°12.9'	163°24.5'	S 22°18.6'	141°29.8'	12.5'	S 19°15.9'	5.1'	54.1'

Tue Jan 8, 2019 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.3' SD = 16.3'		SD = 14.7'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	107°15.4'	178°24.3'	S 22°18.3'	156°01.3'	12.5'	S 19°10.7'	5.2'	54.1'
1	122°17.8'	193°24.0'	S 22°17.9'	170°32.8'	12.6'	S 19°05.5'	5.3'	54.1'
2	137°20.3'	208°23.7'	S 22°17.6'	185°04.4'	12.6'	S 19°00.3'	5.4'	54.1'
3	152°22.8'	223°23.5'	S 22°17.3'	199°36.0'	12.7'	S 18°54.9'	5.5'	54.0'
4	167°25.2'	238°23.2'	S 22°17.0'	214°07.7'	12.7'	S 18°49.4'	5.5'	54.0'
5	182°27.7'	253°22.9'	S 22°16.6'	228°39.4'	12.7'	S 18°43.9'	5.6'	54.0'
6	197°30.2'	268°22.7'	S 22°16.3'	243°11.1'	12.8'	S 18°38.3'	5.7'	54.0'
7	212°32.6'	283°22.4'	S 22°16.0'	257°42.9'	12.8'	S 18°32.5'	5.8'	54.0'
8	227°35.1'	298°22.1'	S 22°15.6'	272°14.7'	12.9'	S 18°26.8'	5.9'	54.0'
9	242°37.6'	313°21.9'	S 22°15.3'	286°46.6'	12.9'	S 18°20.9'	5.9'	54.0'
10	257°40.0'	328°21.6'	S 22°15.0'	301°18.5'	12.9'	S 18°14.9'	6.0'	54.0'
11	272°42.5'	343°21.3'	S 22°14.6'	315°50.4'	13.0'	S 18°08.9'	6.1'	54.0'
12	287°45.0'	358°21.1'	S 22°14.3'	330°22.4'	13.0'	S 18°02.8'	6.2'	54.0'
13	302°47.4'	13°20.8'	S 22°13.9'	344°54.4'	13.1'	S 17°56.6'	6.3'	54.0'
14	317°49.9'	28°20.5'	S 22°13.6'	359°26.5'	13.1'	S 17°50.4'	6.3'	54.0'
15	332°52.3'	43°20.3'	S 22°13.3'	13°58.6'	13.2'	S 17°44.0'	6.4'	54.0'
16	347°54.8'	58°20.0'	S 22°12.9'	28°30.7'	13.2'	S 17°37.6'	6.5'	54.0'
17	2°57.3'	73°19.8'	S 22°12.6'	43°02.9'	13.2'	S 17°31.1'	6.6'	54.0'
18	17°59.7'	88°19.5'	S 22°12.2'	57°35.2'	13.3'	S 17°24.6'	6.6'	54.0'
19	33°02.2'	103°19.2'	S 22°11.9'	72°07.4'	13.3'	S 17°17.9'	6.7'	54.0'
20	48°04.7'	118°19.0'	S 22°11.6'	86°39.8'	13.4'	S 17°11.2'	6.8'	54.0'
21	63°07.1'	133°18.7'	S 22°11.2'	101°12.1'	13.4'	S 17°04.4'	6.9'	54.0'
22	78°09.6'	148°18.4'	S 22°10.9'	115°44.5'	13.4'	S 16°57.6'	6.9'	54.0'
23	93°12.1'	163°18.2'	S 22°10.5'	130°16.9'	13.5'	S 16°50.6'	7.0'	54.0'

Wed Jan 9, 2019 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.4' SD = 16.3'		SD = 14.7'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	108°14.5'	178°17.9'	S 22°10.2'	144°49.4'	13.5'	S 16°43.6'	7.1'	54.0'
1	123°17.0'	193°17.6'	S 22°09.8'	159°21.9'	13.6'	S 16°36.5'	7.1'	54.0'
2	138°19.4'	208°17.4'	S 22°09.5'	173°54.5'	13.6'	S 16°29.4'	7.2'	54.0'
3	153°21.9'	223°17.1'	S 22°09.1'	188°27.1'	13.6'	S 16°22.2'	7.3'	54.0'
4	168°24.4'	238°16.9'	S 22°08.8'	202°59.7'	13.7'	S 16°14.9'	7.4'	54.0'
5	183°26.8'	253°16.6'	S 22°08.5'	217°32.4'	13.7'	S 16°07.5'	7.4'	54.0'
6	198°29.3'	268°16.3'	S 22°08.1'	232°05.1'	13.8'	S 16°00.1'	7.5'	54.0'
7	213°31.8'	283°16.1'	S 22°07.8'	246°37.9'	13.8'	S 15°52.6'	7.6'	54.0'
8	228°34.2'	298°15.8'	S 22°07.4'	261°10.7'	13.8'	S 15°45.1'	7.6'	54.0'
9	243°36.7'	313°15.6'	S 22°07.0'	275°43.5'	13.9'	S 15°37.4'	7.7'	54.0'
10	258°39.2'	328°15.3'	S 22°06.7'	290°16.4'	13.9'	S 15°29.8'	7.8'	54.0'
11	273°41.6'	343°15.0'	S 22°06.3'	304°49.3'	13.9'	S 15°22.0'	7.8'	54.0'
12	288°44.1'	358°14.8'	S 22°06.0'	319°22.3'	14.0'	S 15°14.2'	7.9'	54.0'
13	303°46.6'	13°14.5'	S 22°05.6'	333°55.2'	14.0'	S 15°06.3'	7.9'	54.0'
14	318°49.0'	28°14.3'	S 22°05.3'	348°28.3'	14.1'	S 14°58.4'	8.0'	54.0'
15	333°51.5'	43°14.0'	S 22°04.9'	3°01.3'	14.1'	S 14°50.3'	8.1'	54.0'
16	348°53.9'	58°13.7'	S 22°04.6'	17°34.4'	14.1'	S 14°42.3'	8.1'	54.0'
17	3°56.4'	73°13.5'	S 22°04.2'	32°07.6'	14.2'	S 14°34.1'	8.2'	54.0'
18	18°58.9'	88°13.2'	S 22°03.8'	46°40.7'	14.2'	S 14°26.0'	8.3'	54.0'
19	34°01.3'	103°13.0'	S 22°03.5'	61°13.9'	14.2'	S 14°17.7'	8.3'	54.0'
20	49°03.8'	118°12.7'	S 22°03.1'	75°47.2'	14.3'	S 14°09.4'	8.4'	54.0'
21	64°06.3'	133°12.4'	S 22°02.8'	90°20.5'	14.3'	S 14°01.0'	8.4'	54.0'
22	79°08.7'	148°12.2'	S 22°02.4'	104°53.8'	14.3'	S 13°52.6'	8.5'	54.0'
23	94°11.2'	163°11.9'	S 22°02.0'	119°27.1'	14.4'	S 13°44.1'	8.5'	54.0'

Thu Jan 10, 2019 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.4' SD = 16.3'		SD = 14.8'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	109°13.7'	178°11.7'	S 22°01.7'	134°00.5'	14.4'	S 13°35.6'	8.6'	54.0'
1	124°16.1'	193°11.4'	S 22°01.3'	148°33.9'	14.4'	S 13°27.0'	8.7'	54.0'
2	139°18.6'	208°11.2'	S 22°00.9'	163°07.4'	14.5'	S 13°18.3'	8.7'	54.0'
3	154°21.1'	223°10.9'	S 22°00.6'	177°40.8'	14.5'	S 13°09.6'	8.8'	54.0'
4	169°23.5'	238°10.6'	S 22°00.2'	192°14.3'	14.5'	S 13°00.8'	8.8'	54.1'
5	184°26.0'	253°10.4'	S 21°59.8'	206°47.9'	14.6'	S 12°52.0'	8.9'	54.1'
6	199°28.4'	268°10.1'	S 21°59.5'	221°21.5'	14.6'	S 12°43.1'	8.9'	54.1'
7	214°30.9'	283°09.9'	S 21°59.1'	235°55.1'	14.6'	S 12°34.2'	9.0'	54.1'
8	229°33.4'	298°09.6'	S 21°58.7'	250°28.7'	14.7'	S 12°25.2'	9.0'	54.1'
9	244°35.8'	313°09.4'	S 21°58.4'	265°02.4'	14.7'	S 12°16.2'	9.1'	54.1'
10	259°38.3'	328°09.1'	S 21°58.0'	279°36.0'	14.7'	S 12°07.1'	9.1'	54.1'
11	274°40.8'	343°08.9'	S 21°57.6'	294°09.8'	14.7'	S 11°58.0'	9.2'	54.1'
12	289°43.2'	358°08.6'	S 21°57.3'	308°43.5'	14.8'	S 11°48.8'	9.2'	54.1'
13	304°45.7'	13°08.4'	S 21°56.9'	323°17.3'	14.8'	S 11°39.5'	9.3'	54.1'
14	319°48.2'	28°08.1'	S 21°56.5'	337°51.1'	14.8'	S 11°30.3'	9.3'	54.1'
15	334°50.6'	43°07.8'	S 21°56.1'	352°24.9'	14.9'	S 11°20.9'	9.4'	54.1'
16	349°53.1'	58°07.6'	S 21°55.8'	6°58.8'	14.9'	S 11°11.5'	9.4'	54.1'
17	4°55.6'	73°07.3'	S 21°55.4'	21°32.7'	14.9'	S 11°02.1'	9.5'	54.1'
18	19°58.0'	88°07.1'	S 21°55.0'	36°06.6'	14.9'	S 10°52.6'	9.5'	54.2'
19	35°00.5'	103°06.8'	S 21°54.6'	50°40.5'	15.0'	S 10°43.1'	9.6'	54.2'
20	50°02.9'	118°06.6'	S 21°54.3'	65°14.4'	15.0'	S 10°33.6'	9.6'	54.2'
21	65°05.4'	133°06.3'	S 21°53.9'	79°48.4'	15.0'	S 10°24.0'	9.7'	54.2'
22	80°07.9'	148°06.1'	S 21°53.5'	94°22.4'	15.0'	S 10°14.3'	9.7'	54.2'
23	95°10.3'	163°05.8'	S 21°53.1'	108°56.4'	15.0'	S 10°04.6'	9.7'	54.2'

Fri Jan 11, 2019 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.4' SD = 16.3'		SD = 14.8'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	110°12.8'	178°05.6'	S 21°52.7'	123°30.5'	15.1'	S 9°54.9'	9.8'	54.2'
1	125°15.3'	193°05.3'	S 21°52.4'	138°04.5'	15.1'	S 9°45.1'	9.8'	54.2'
2	140°17.7'	208°05.1'	S 21°52.0'	152°38.6'	15.1'	S 9°35.3'	9.9'	54.2'
3	155°20.2'	223°04.8'	S 21°51.6'	167°12.7'	15.1'	S 9°25.4'	9.9'	54.2'
4	170°22.7'	238°04.6'	S 21°51.2'	181°46.8'	15.1'	S 9°15.5'	9.9'	54.2'
5	185°25.1'	253°04.3'	S 21°50.8'	196°21.0'	15.2'	S 9°05.5'	10.0'	54.3'
6	200°27.6'	268°04.1'	S 21°50.4'	210°55.1'	15.2'	S 8°55.6'	10.0'	54.3'
7	215°30.0'	283°03.8'	S 21°50.0'	225°29.3'	15.2'	S 8°45.5'	10.1'	54.3'
8	230°32.5'	298°03.6'	S 21°49.7'	240°03.5'	15.2'	S 8°35.5'	10.1'	54.3'
9	245°35.0'	313°03.3'	S 21°49.3'	254°37.7'	15.2'	S 8°25.4'	10.1'	54.3'
10	260°37.4'	328°03.1'	S 21°48.9'	269°11.9'	15.2'	S 8°15.2'	10.2'	54.3'
11	275°39.9'	343°02.8'	S 21°48.5'	283°46.1'	15.2'	S 8°05.1'	10.2'	54.3'
12	290°42.4'	358°02.6'	S 21°48.1'	298°20.4'	15.3'	S 7°54.8'	10.2'	54.3'
13	305°44.8'	13°02.3'	S 21°47.7'	312°54.6'	15.3'	S 7°44.6'	10.3'	54.4'
14	320°47.3'	28°02.1'	S 21°47.3'	327°28.9'	15.3'	S 7°34.3'	10.3'	54.4'
15	335°49.8'	43°01.8'	S 21°46.9'	342°03.2'	15.3'	S 7°24.0'	10.4'	54.4'
16	350°52.2'	58°01.6'	S 21°46.5'	356°37.4'	15.3'	S 7°13.6'	10.4'	54.4'
17	5°54.7'	73°01.3'	S 21°46.1'	11°11.7'	15.3'	S 7°03.3'	10.4'	54.4'
18	20°57.2'	88°01.1'	S 21°45.7'	25°46.0'	15.3'	S 6°52.8'	10.4'	54.4'
19	35°59.6'	103°00.9'	S 21°45.4'	40°20.4'	15.3'	S 6°42.4'	10.5'	54.4'
20	51°02.1'	118°00.6'	S 21°45.0'	54°54.7'	15.3'	S 6°31.9'	10.5'	54.5'
21	66°04.5'	133°00.4'	S 21°44.6'	69°29.0'	15.3'	S 6°21.4'	10.5'	54.5'
22	81°07.0'	148°00.1'	S 21°44.2'	84°03.3'	15.3'	S 6°10.9'	10.6'	54.5'
23	96°09.5'	162°59.9'	S 21°43.8'	98°37.7'	15.3'	S 6°00.3'	10.6'	54.5'

Sat Jan 12, 2019 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.4' SD = 16.3'		SD = 14.9'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	111°11.9'	177°59.6'	S 21°43.4'	113°12.0'	15.3'	S 5°49.7'	10.6'	54.5'
1	126°14.4'	192°59.4'	S 21°43.0'	127°46.3'	15.3'	S 5°39.1'	10.7'	54.5'
2	141°16.9'	207°59.1'	S 21°42.6'	142°20.7'	15.3'	S 5°28.4'	10.7'	54.6'
3	156°19.3'	222°58.9'	S 21°42.2'	156°55.0'	15.3'	S 5°17.7'	10.7'	54.6'
4	171°21.8'	237°58.7'	S 21°41.8'	171°29.4'	15.3'	S 5°07.0'	10.7'	54.6'
5	186°24.3'	252°58.4'	S 21°41.4'	186°03.7'	15.3'	S 4°56.3'	10.8'	54.6'
6	201°26.7'	267°58.2'	S 21°41.0'	200°38.1'	15.3'	S 4°45.5'	10.8'	54.6'
7	216°29.2'	282°57.9'	S 21°40.6'	215°12.4'	15.3'	S 4°34.7'	10.8'	54.6'
8	231°31.6'	297°57.7'	S 21°40.1'	229°46.7'	15.3'	S 4°23.9'	10.8'	54.7'
9	246°34.1'	312°57.4'	S 21°39.7'	244°21.1'	15.3'	S 4°13.1'	10.9'	54.7'
10	261°36.6'	327°57.2'	S 21°39.3'	258°55.4'	15.3'	S 4°02.2'	10.9'	54.7'
11	276°39.0'	342°57.0'	S 21°38.9'	273°29.7'	15.3'	S 3°51.3'	10.9'	54.7'
12	291°41.5'	357°56.7'	S 21°38.5'	288°04.1'	15.3'	S 3°40.4'	10.9'	54.7'
13	306°44.0'	12°56.5'	S 21°38.1'	302°38.4'	15.3'	S 3°29.5'	11.0'	54.8'
14	321°46.4'	27°56.2'	S 21°37.7'	317°12.7'	15.3'	S 3°18.5'	11.0'	54.8'
15	336°48.9'	42°56.0'	S 21°37.3'	331°47.0'	15.3'	S 3°07.5'	11.0'	54.8'
16	351°51.4'	57°55.8'	S 21°36.9'	346°21.3'	15.3'	S 2°56.6'	11.0'	54.8'
17	6°53.8'	72°55.5'	S 21°36.5'	0°55.5'	15.3'	S 2°45.5'	11.0'	54.8'
18	21°56.3'	87°55.3'	S 21°36.1'	15°29.8'	15.3'	S 2°34.5'	11.0'	54.9'
19	36°58.8'	102°55.0'	S 21°35.6'	30°04.1'	15.2'	S 2°23.5'	11.1'	54.9'
20	52°01.2'	117°54.8'	S 21°35.2'	44°38.3'	15.2'	S 2°12.4'	11.1'	54.9'
21	67°03.7'	132°54.6'	S 21°34.8'	59°12.5'	15.2'	S 2°01.3'	11.1'	54.9'
22	82°06.1'	147°54.3'	S 21°34.4'	73°46.8'	15.2'	S 1°50.2'	11.1'	55.0'
23	97°08.6'	162°54.1'	S 21°34.0'	88°20.9'	15.2'	S 1°39.1'	11.1'	55.0'

Sun Jan 13, 2019 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.4' SD = 16.3'		SD = 15.1'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	112°11.1'	177°53.8'	S 21°33.6'	102°55.1'	15.2'	S 1°28.0'	11.1'	55.0'
1	127°13.5'	192°53.6'	S 21°33.2'	117°29.3'	15.1'	S 1°16.8'	11.2'	55.0'
2	142°16.0'	207°53.4'	S 21°32.7'	132°03.4'	15.1'	S 1°05.7'	11.2'	55.0'
3	157°18.5'	222°53.1'	S 21°32.3'	146°37.6'	15.1'	S 0°54.5'	11.2'	55.1'
4	172°20.9'	237°52.9'	S 21°31.9'	161°11.7'	15.1'	S 0°43.3'	11.2'	55.1'
5	187°23.4'	252°52.7'	S 21°31.5'	175°45.8'	15.1'	S 0°32.1'	11.2'	55.1'
6	202°25.9'	267°52.4'	S 21°31.1'	190°19.8'	15.0'	S 0°20.9'	11.2'	55.1'
7	217°28.3'	282°52.2'	S 21°30.6'	204°53.9'	15.0'	S 0°09.7'	11.2'	55.2'
8	232°30.8'	297°51.9'	S 21°30.2'	219°27.9'	15.0'	N 0°01.6'	11.2'	55.2'
9	247°33.3'	312°51.7'	S 21°29.8'	234°01.9'	15.0'	N 0°12.8'	11.3'	55.2'
10	262°35.7'	327°51.5'	S 21°29.4'	248°35.8'	14.9'	N 0°24.1'	11.3'	55.2'
11	277°38.2'	342°51.2'	S 21°28.9'	263°09.8'	14.9'	N 0°35.3'	11.3'	55.3'
12	292°40.6'	357°51.0'	S 21°28.5'	277°43.7'	14.9'	N 0°46.6'	11.3'	55.3'
13	307°43.1'	12°50.8'	S 21°28.1'	292°17.5'	14.9'	N 0°57.9'	11.3'	55.3'
14	322°45.6'	27°50.5'	S 21°27.7'	306°51.4'	14.8'	N 1°09.1'	11.3'	55.3'
15	337°48.0'	42°50.3'	S 21°27.2'	321°25.2'	14.8'	N 1°20.4'	11.3'	55.4'
16	352°50.5'	57°50.1'	S 21°26.8'	335°59.0'	14.8'	N 1°31.7'	11.3'	55.4'
17	7°53.0'	72°49.8'	S 21°26.4'	350°32.8'	14.7'	N 1°43.0'	11.3'	55.4'
18	22°55.4'	87°49.6'	S 21°26.0'	5°06.5'	14.7'	N 1°54.3'	11.3'	55.5'
19	37°57.9'	102°49.4'	S 21°25.5'	19°40.2'	14.7'	N 2°05.6'	11.3'	55.5'
20	53°00.4'	117°49.1'	S 21°25.1'	34°13.8'	14.6'	N 2°16.9'	11.3'	55.5'
21	68°02.8'	132°48.9'	S 21°24.7'	48°47.4'	14.6'	N 2°28.2'	11.3'	55.5'
22	83°05.3'	147°48.7'	S 21°24.2'	63°21.0'	14.5'	N 2°39.5'	11.3'	55.6'
23	98°07.7'	162°48.4'	S 21°23.8'	77°54.6'	14.5'	N 2°50.8'	11.3'	55.6'

Mon Jan 14, 2019 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.4' SD = 16.3'		SD = 15.3'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	113°10.2'	177°48.2'	S 21°23.4'	92°28.1'	14.5'	N 3°02.1'	11.3'	55.6'
1	128°12.7'	192°48.0'	S 21°22.9'	107°01.5'	14.4'	N 3°13.4'	11.3'	55.7'
2	143°15.1'	207°47.7'	S 21°22.5'	121°34.9'	14.4'	N 3°24.8'	11.3'	55.7'
3	158°17.6'	222°47.5'	S 21°22.1'	136°08.3'	14.3'	N 3°36.1'	11.3'	55.7'
4	173°20.1'	237°47.3'	S 21°21.6'	150°41.6'	14.3'	N 3°47.4'	11.3'	55.8'
5	188°22.5'	252°47.1'	S 21°21.2'	165°14.9'	14.2'	N 3°58.6'	11.3'	55.8'
6	203°25.0'	267°46.8'	S 21°20.7'	179°48.2'	14.2'	N 4°09.9'	11.3'	55.8'
7	218°27.5'	282°46.6'	S 21°20.3'	194°21.4'	14.2'	N 4°21.2'	11.3'	55.8'
8	233°29.9'	297°46.4'	S 21°19.9'	208°54.5'	14.1'	N 4°32.5'	11.3'	55.9'
9	248°32.4'	312°46.1'	S 21°19.4'	223°27.6'	14.1'	N 4°43.8'	11.3'	55.9'
10	263°34.9'	327°45.9'	S 21°19.0'	238°00.7'	14.0'	N 4°55.0'	11.3'	55.9'
11	278°37.3'	342°45.7'	S 21°18.5'	252°33.7'	14.0'	N 5°06.3'	11.2'	56.0'
12	293°39.8'	357°45.5'	S 21°18.1'	267°06.6'	13.9'	N 5°17.5'	11.2'	56.0'
13	308°42.2'	12°45.2'	S 21°17.7'	281°39.5'	13.8'	N 5°28.8'	11.2'	56.0'
14	323°44.7'	27°45.0'	S 21°17.2'	296°12.4'	13.8'	N 5°40.0'	11.2'	56.1'
15	338°47.2'	42°44.8'	S 21°16.8'	310°45.2'	13.7'	N 5°51.2'	11.2'	56.1'
16	353°49.6'	57°44.5'	S 21°16.3'	325°17.9'	13.7'	N 6°02.4'	11.2'	56.1'
17	8°52.1'	72°44.3'	S 21°15.9'	339°50.6'	13.6'	N 6°13.6'	11.2'	56.2'
18	23°54.6'	87°44.1'	S 21°15.4'	354°23.2'	13.6'	N 6°24.8'	11.2'	56.2'
19	38°57.0'	102°43.9'	S 21°15.0'	8°55.8'	13.5'	N 6°35.9'	11.1'	56.2'
20	53°59.5'	117°43.6'	S 21°14.5'	23°28.3'	13.4'	N 6°47.0'	11.1'	56.3'
21	69°02.0'	132°43.4'	S 21°14.1'	38°00.7'	13.4'	N 6°58.2'	11.1'	56.3'
22	84°04.4'	147°43.2'	S 21°13.6'	52°33.1'	13.3'	N 7°09.3'	11.1'	56.3'
23	99°06.9'	162°43.0'	S 21°13.2'	67°05.4'	13.3'	N 7°20.4'	11.1'	56.4'

Tue Jan 15, 2019 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.5' SD = 16.3'		SD = 15.5'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	114°09.4'	177°42.7'	S 21°12.7'	81°37.7'	13.2'	N 7°31.4'	11.0'	56.4'
1	129°11.8'	192°42.5'	S 21°12.3'	96°09.9'	13.1'	N 7°42.5'	11.0'	56.4'
2	144°14.3'	207°42.3'	S 21°11.8'	110°42.0'	13.1'	N 7°53.5'	11.0'	56.5'
3	159°16.7'	222°42.1'	S 21°11.4'	125°14.1'	13.0'	N 8°04.5'	11.0'	56.5'
4	174°19.2'	237°41.8'	S 21°10.9'	139°46.1'	12.9'	N 8°15.5'	11.0'	56.6'
5	189°21.7'	252°41.6'	S 21°10.5'	154°18.0'	12.9'	N 8°26.4'	10.9'	56.6'
6	204°24.1'	267°41.4'	S 21°10.0'	168°49.9'	12.8'	N 8°37.4'	10.9'	56.6'
7	219°26.6'	282°41.2'	S 21°09.6'	183°21.7'	12.7'	N 8°48.3'	10.9'	56.7'
8	234°29.1'	297°41.0'	S 21°09.1'	197°53.4'	12.6'	N 8°59.1'	10.8'	56.7'
9	249°31.5'	312°40.7'	S 21°08.7'	212°25.0'	12.6'	N 9°10.0'	10.8'	56.7'
10	264°34.0'	327°40.5'	S 21°08.2'	226°56.6'	12.5'	N 9°20.8'	10.8'	56.8'
11	279°36.5'	342°40.3'	S 21°07.7'	241°28.1'	12.4'	N 9°31.6'	10.8'	56.8'
12	294°38.9'	357°40.1'	S 21°07.3'	255°59.6'	12.4'	N 9°42.4'	10.7'	56.8'
13	309°41.4'	12°39.8'	S 21°06.8'	270°30.9'	12.3'	N 9°53.1'	10.7'	56.9'
14	324°43.8'	27°39.6'	S 21°06.4'	285°02.2'	12.2'	N 10°03.8'	10.7'	56.9'
15	339°46.3'	42°39.4'	S 21°05.9'	299°33.4'	12.1'	N 10°14.4'	10.6'	57.0'
16	354°48.8'	57°39.2'	S 21°05.4'	314°04.5'	12.0'	N 10°25.1'	10.6'	57.0'
17	9°51.2'	72°39.0'	S 21°05.0'	328°35.5'	12.0'	N 10°35.6'	10.5'	57.0'
18	24°53.7'	87°38.8'	S 21°04.5'	343°06.5'	11.9'	N 10°46.2'	10.5'	57.1'
19	39°56.2'	102°38.5'	S 21°04.0'	357°37.4'	11.8'	N 10°56.7'	10.5'	57.1'
20	54°58.6'	117°38.3'	S 21°03.6'	12°08.2'	11.7'	N 11°07.2'	10.4'	57.2'
21	70°01.1'	132°38.1'	S 21°03.1'	26°38.9'	11.6'	N 11°17.6'	10.4'	57.2'
22	85°03.6'	147°37.9'	S 21°02.7'	41°09.5'	11.6'	N 11°28.0'	10.3'	57.2'
23	100°06.0'	162°37.7'	S 21°02.2'	55°40.1'	11.5'	N 11°38.3'	10.3'	57.3'

Wed Jan 16, 2019 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.5' SD = 16.3'		SD = 15.8'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	115°08.5'	177°37.4'	S 21°01.7'	70°10.6'	11.4'	N 11°48.6'	10.3'	57.3'
1	130°11.0'	192°37.2'	S 21°01.2'	84°40.9'	11.3'	N 11°58.9'	10.2'	57.3'
2	145°13.4'	207°37.0'	S 21°00.8'	99°11.2'	11.2'	N 12°09.1'	10.2'	57.4'
3	160°15.9'	222°36.8'	S 21°00.3'	113°41.4'	11.1'	N 12°19.3'	10.1'	57.4'
4	175°18.3'	237°36.6'	S 20°59.8'	128°11.6'	11.0'	N 12°29.4'	10.1'	57.5'
5	190°20.8'	252°36.4'	S 20°59.4'	142°41.6'	10.9'	N 12°39.5'	10.0'	57.5'
6	205°23.3'	267°36.1'	S 20°58.9'	157°11.5'	10.8'	N 12°49.5'	10.0'	57.5'
7	220°25.7'	282°35.9'	S 20°58.4'	171°41.4'	10.8'	N 12°59.4'	9.9'	57.6'
8	235°28.2'	297°35.7'	S 20°58.0'	186°11.1'	10.7'	N 13°09.3'	9.9'	57.6'
9	250°30.7'	312°35.5'	S 20°57.5'	200°40.8'	10.6'	N 13°19.2'	9.8'	57.7'
10	265°33.1'	327°35.3'	S 20°57.0'	215°10.4'	10.5'	N 13°29.0'	9.7'	57.7'
11	280°35.6'	342°35.1'	S 20°56.5'	229°39.9'	10.4'	N 13°38.7'	9.7'	57.7'
12	295°38.1'	357°34.9'	S 20°56.1'	244°09.2'	10.3'	N 13°48.4'	9.6'	57.8'
13	310°40.5'	12°34.6'	S 20°55.6'	258°38.5'	10.2'	N 13°58.0'	9.6'	57.8'
14	325°43.0'	27°34.4'	S 20°55.1'	273°07.7'	10.1'	N 14°07.6'	9.5'	57.9'
15	340°45.5'	42°34.2'	S 20°54.6'	287°36.8'	10.0'	N 14°17.1'	9.4'	57.9'
16	355°47.9'	57°34.0'	S 20°54.1'	302°05.8'	9.9'	N 14°26.5'	9.4'	58.0'
17	10°50.4'	72°33.8'	S 20°53.7'	316°34.8'	9.8'	N 14°35.9'	9.3'	58.0'
18	25°52.8'	87°33.6'	S 20°53.2'	331°03.6'	9.7'	N 14°45.2'	9.2'	58.0'
19	40°55.3'	102°33.4'	S 20°52.7'	345°32.3'	9.6'	N 14°54.4'	9.2'	58.1'
20	55°57.8'	117°33.2'	S 20°52.2'	0°00.9'	9.5'	N 15°03.6'	9.1'	58.1'
21	71°00.2'	132°33.0'	S 20°51.7'	14°29.4'	9.4'	N 15°12.7'	9.0'	58.2'
22	86°02.7'	147°32.7'	S 20°51.3'	28°57.8'	9.3'	N 15°21.7'	9.0'	58.2'
23	101°05.2'	162°32.5'	S 20°50.8'	43°26.2'	9.2'	N 15°30.7'	8.9'	58.2'

Thu Jan 17, 2019 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.5' SD = 16.3'		SD = 16.0'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	116°07.6'	177°32.3'	S 20°50.3'	57°54.4'	9.1'	N 15°39.5'	8.8'	58.3'
1	131°10.1'	192°32.1'	S 20°49.8'	72°22.5'	9.0'	N 15°48.3'	8.7'	58.3'
2	146°12.6'	207°31.9'	S 20°49.3'	86°50.5'	8.9'	N 15°57.1'	8.6'	58.4'
3	161°15.0'	222°31.7'	S 20°48.8'	101°18.4'	8.8'	N 16°05.7'	8.6'	58.4'
4	176°17.5'	237°31.5'	S 20°48.3'	115°46.3'	8.7'	N 16°14.3'	8.5'	58.4'
5	191°19.9'	252°31.3'	S 20°47.9'	130°14.0'	8.6'	N 16°22.8'	8.4'	58.5'
6	206°22.4'	267°31.1'	S 20°47.4'	144°41.6'	8.5'	N 16°31.2'	8.3'	58.5'
7	221°24.9'	282°30.9'	S 20°46.9'	159°09.1'	8.4'	N 16°39.5'	8.2'	58.6'
8	236°27.3'	297°30.7'	S 20°46.4'	173°36.5'	8.3'	N 16°47.7'	8.1'	58.6'
9	251°29.8'	312°30.4'	S 20°45.9'	188°03.8'	8.2'	N 16°55.9'	8.1'	58.6'
10	266°32.3'	327°30.2'	S 20°45.4'	202°31.0'	8.1'	N 17°03.9'	8.0'	58.7'
11	281°34.7'	342°30.0'	S 20°44.9'	216°58.1'	8.0'	N 17°11.9'	7.9'	58.7'
12	296°37.2'	357°29.8'	S 20°44.4'	231°25.1'	7.9'	N 17°19.8'	7.8'	58.8'
13	311°39.7'	12°29.6'	S 20°43.9'	245°52.0'	7.8'	N 17°27.5'	7.7'	58.8'
14	326°42.1'	27°29.4'	S 20°43.4'	260°18.8'	7.7'	N 17°35.2'	7.6'	58.9'
15	341°44.6'	42°29.2'	S 20°42.9'	274°45.5'	7.6'	N 17°42.8'	7.5'	58.9'
16	356°47.1'	57°29.0'	S 20°42.4'	289°12.1'	7.5'	N 17°50.3'	7.4'	58.9'
17	11°49.5'	72°28.8'	S 20°42.0'	303°38.6'	7.4'	N 17°57.7'	7.3'	59.0'
18	26°52.0'	87°28.6'	S 20°41.5'	318°05.0'	7.3'	N 18°05.0'	7.2'	59.0'
19	41°54.4'	102°28.4'	S 20°41.0'	332°31.3'	7.2'	N 18°12.2'	7.1'	59.1'
20	56°56.9'	117°28.2'	S 20°40.5'	346°57.4'	7.1'	N 18°19.3'	7.0'	59.1'
21	71°59.4'	132°28.0'	S 20°40.0'	1°23.5'	7.0'	N 18°26.3'	6.9'	59.1'
22	87°01.8'	147°27.8'	S 20°39.5'	15°49.5'	6.9'	N 18°33.1'	6.8'	59.2'
23	102°04.3'	162°27.6'	S 20°39.0'	30°15.4'	6.8'	N 18°39.9'	6.7'	59.2'

Fri Jan 18, 2019 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.5' SD = 16.3'		SD = 16.3'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	117°06.8'	177°27.4'	S 20°38.5'	44°41.2'	6.7'	N 18°46.6'	6.6'	59.3'
1	132°09.2'	192°27.2'	S 20°38.0'	59°06.9'	6.6'	N 18°53.1'	6.4'	59.3'
2	147°11.7'	207°27.0'	S 20°37.5'	73°32.4'	6.5'	N 18°59.6'	6.3'	59.3'
3	162°14.2'	222°26.8'	S 20°37.0'	87°57.9'	6.4'	N 19°05.9'	6.2'	59.4'
4	177°16.6'	237°26.6'	S 20°36.5'	102°23.3'	6.3'	N 19°12.1'	6.1'	59.4'
5	192°19.1'	252°26.4'	S 20°36.0'	116°48.6'	6.2'	N 19°18.2'	6.0'	59.4'
6	207°21.6'	267°26.2'	S 20°35.4'	131°13.8'	6.1'	N 19°24.2'	5.9'	59.5'
7	222°24.0'	282°26.0'	S 20°34.9'	145°38.9'	6.0'	N 19°30.1'	5.7'	59.5'
8	237°26.5'	297°25.8'	S 20°34.4'	160°03.9'	5.9'	N 19°35.8'	5.6'	59.6'
9	252°28.9'	312°25.6'	S 20°33.9'	174°28.8'	5.8'	N 19°41.4'	5.5'	59.6'
10	267°31.4'	327°25.4'	S 20°33.4'	188°53.6'	5.7'	N 19°46.9'	5.4'	59.6'
11	282°33.9'	342°25.2'	S 20°32.9'	203°18.3'	5.6'	N 19°52.3'	5.2'	59.7'
12	297°36.3'	357°25.0'	S 20°32.4'	217°42.9'	5.5'	N 19°57.5'	5.1'	59.7'
13	312°38.8'	12°24.8'	S 20°31.9'	232°07.5'	5.4'	N 20°02.7'	5.0'	59.7'
14	327°41.3'	27°24.6'	S 20°31.4'	246°31.9'	5.4'	N 20°07.6'	4.9'	59.8'
15	342°43.7'	42°24.4'	S 20°30.9'	260°56.2'	5.3'	N 20°12.5'	4.7'	59.8'
16	357°46.2'	57°24.2'	S 20°30.4'	275°20.5'	5.2'	N 20°17.2'	4.6'	59.9'
17	12°48.7'	72°24.0'	S 20°29.9'	289°44.7'	5.1'	N 20°21.8'	4.5'	59.9'
18	27°51.1'	87°23.8'	S 20°29.3'	304°08.8'	5.0'	N 20°26.3'	4.3'	59.9'
19	42°53.6'	102°23.6'	S 20°28.8'	318°32.8'	4.9'	N 20°30.6'	4.2'	60.0'
20	57°56.1'	117°23.4'	S 20°28.3'	332°56.7'	4.8'	N 20°34.8'	4.1'	60.0'
21	72°58.5'	132°23.2'	S 20°27.8'	347°20.5'	4.8'	N 20°38.9'	3.9'	60.0'
22	88°01.0'	147°23.0'	S 20°27.3'	1°44.3'	4.7'	N 20°42.8'	3.8'	60.1'
23	103°03.4'	162°22.8'	S 20°26.8'	16°08.0'	4.6'	N 20°46.6'	3.6'	60.1'

Sat Jan 19, 2019 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.5' SD = 16.3'		SD = 16.5'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	118°05.9'	177°22.6'	S 20°26.2'	30°31.6'	4.5'	N 20°50.2'	3.5'	60.1'
1	133°08.4'	192°22.4'	S 20°25.7'	44°55.1'	4.4'	N 20°53.7'	3.4'	60.2'
2	148°10.8'	207°22.2'	S 20°25.2'	59°18.5'	4.4'	N 20°57.0'	3.2'	60.2'
3	163°13.3'	222°22.0'	S 20°24.7'	73°41.9'	4.3'	N 21°00.3'	3.1'	60.2'
4	178°15.8'	237°21.8'	S 20°24.2'	88°05.2'	4.2'	N 21°03.3'	2.9'	60.3'
5	193°18.2'	252°21.6'	S 20°23.7'	102°28.4'	4.2'	N 21°06.2'	2.8'	60.3'
6	208°20.7'	267°21.5'	S 20°23.1'	116°51.6'	4.1'	N 21°09.0'	2.6'	60.3'
7	223°23.2'	282°21.3'	S 20°22.6'	131°14.7'	4.0'	N 21°11.6'	2.5'	60.4'
8	238°25.6'	297°21.1'	S 20°22.1'	145°37.7'	4.0'	N 21°14.1'	2.3'	60.4'
9	253°28.1'	312°20.9'	S 20°21.6'	160°00.6'	3.9'	N 21°16.4'	2.2'	60.4'
10	268°30.6'	327°20.7'	S 20°21.0'	174°23.5'	3.8'	N 21°18.6'	2.0'	60.5'
11	283°33.0'	342°20.5'	S 20°20.5'	188°46.4'	3.8'	N 21°20.6'	1.9'	60.5'
12	298°35.5'	357°20.3'	S 20°20.0'	203°09.2'	3.7'	N 21°22.4'	1.7'	60.5'
13	313°37.9'	12°20.1'	S 20°19.5'	217°31.9'	3.7'	N 21°24.1'	1.6'	60.5'
14	328°40.4'	27°19.9'	S 20°18.9'	231°54.5'	3.6'	N 21°25.7'	1.4'	60.6'
15	343°42.9'	42°19.7'	S 20°18.4'	246°17.1'	3.6'	N 21°27.1'	1.2'	60.6'
16	358°45.3'	57°19.5'	S 20°17.9'	260°39.7'	3.5'	N 21°28.3'	1.1'	60.6'
17	13°47.8'	72°19.4'	S 20°17.4'	275°02.2'	3.5'	N 21°29.4'	0.9'	60.7'
18	28°50.3'	87°19.2'	S 20°16.8'	289°24.7'	3.4'	N 21°30.4'	0.8'	60.7'
19	43°52.7'	102°19.0'	S 20°16.3'	303°47.1'	3.4'	N 21°31.1'	0.6'	60.7'
20	58°55.2'	117°18.8'	S 20°15.8'	318°09.5'	3.3'	N 21°31.7'	0.5'	60.7'
21	73°57.7'	132°18.6'	S 20°15.2'	332°31.8'	3.3'	N 21°32.2'	0.3'	60.8'
22	89°00.1'	147°18.4'	S 20°14.7'	346°54.1'	3.3'	N 21°32.5'	0.1'	60.8'
23	104°02.6'	162°18.2'	S 20°14.2'	1°16.3'	3.2'	N 21°32.6'	0.0'	60.8'

Sun Jan 20, 2019 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.5' SD = 16.3'		SD = 16.7'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	119°05.1'	177°18.0'	S 20°13.6'	15°38.6'	3.2'	N 21°32.6'	0.2'	60.8'
1	134°07.5'	192°17.9'	S 20°13.1'	30°00.8'	3.2'	N 21°32.4'	0.4'	60.9'
2	149°10.0'	207°17.7'	S 20°12.6'	44°22.9'	3.1'	N 21°32.0'	0.5'	60.9'
3	164°12.4'	222°17.5'	S 20°12.0'	58°45.0'	3.1'	N 21°31.5'	0.7'	60.9'
4	179°14.9'	237°17.3'	S 20°11.5'	73°07.1'	3.1'	N 21°30.8'	0.8'	60.9'
5	194°17.4'	252°17.1'	S 20°11.0'	87°29.2'	3.1'	N 21°30.0'	1.0'	60.9'
6	209°19.8'	267°16.9'	S 20°10.4'	101°51.3'	3.0'	N 21°29.0'	1.2'	61.0'
7	224°22.3'	282°16.7'	S 20°09.9'	116°13.3'	3.0'	N 21°27.8'	1.3'	61.0'
8	239°24.8'	297°16.6'	S 20°09.4'	130°35.3'	3.0'	N 21°26.5'	1.5'	61.0'
9	254°27.2'	312°16.4'	S 20°08.8'	144°57.3'	3.0'	N 21°25.0'	1.7'	61.0'
10	269°29.7'	327°16.2'	S 20°08.3'	159°19.3'	3.0'	N 21°23.4'	1.8'	61.0'
11	284°32.2'	342°16.0'	S 20°07.7'	173°41.3'	3.0'	N 21°21.5'	2.0'	61.1'
12	299°34.6'	357°15.8'	S 20°07.2'	188°03.3'	3.0'	N 21°19.6'	2.1'	61.1'
13	314°37.1'	12°15.6'	S 20°06.7'	202°25.2'	3.0'	N 21°17.4'	2.3'	61.1'
14	329°39.5'	27°15.5'	S 20°06.1'	216°47.2'	3.0'	N 21°15.1'	2.5'	61.1'
15	344°42.0'	42°15.3'	S 20°05.6'	231°09.2'	3.0'	N 21°12.6'	2.6'	61.1'
16	359°44.5'	57°15.1'	S 20°05.0'	245°31.1'	3.0'	N 21°10.0'	2.8'	61.1'
17	14°46.9'	72°14.9'	S 20°04.5'	259°53.1'	3.0'	N 21°07.2'	3.0'	61.2'
18	29°49.4'	87°14.7'	S 20°03.9'	274°15.0'	3.0'	N 21°04.3'	3.1'	61.2'
19	44°51.9'	102°14.5'	S 20°03.4'	288°37.0'	3.0'	N 21°01.2'	3.3'	61.2'
20	59°54.3'	117°14.4'	S 20°02.9'	302°59.0'	3.0'	N 20°57.9'	3.4'	61.2'
21	74°56.8'	132°14.2'	S 20°02.3'	317°21.0'	3.0'	N 20°54.4'	3.6'	61.2'
22	89°59.3'	147°14.0'	S 20°01.8'	331°43.0'	3.0'	N 20°50.8'	3.8'	61.2'
23	105°01.7'	162°13.8'	S 20°01.2'	346°05.0'	3.0'	N 20°47.1'	3.9'	61.2'

Mon Jan 21, 2019 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.6' SD = 16.3'		SD = 16.7'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	120°04.2'	177°13.6'	S 20°00.7'	0°27.1'	3.1'	N 20°43.2'	4.1'	61.3'
1	135°06.7'	192°13.5'	S 20°00.1'	14°49.1'	3.1'	N 20°39.1'	4.2'	61.3'
2	150°09.1'	207°13.3'	S 19°59.6'	29°11.2'	3.1'	N 20°34.9'	4.4'	61.3'
3	165°11.6'	222°13.1'	S 19°59.0'	43°33.3'	3.1'	N 20°30.5'	4.5'	61.3'
4	180°14.0'	237°12.9'	S 19°58.5'	57°55.4'	3.2'	N 20°25.9'	4.7'	61.3'
5	195°16.5'	252°12.8'	S 19°57.9'	72°17.6'	3.2'	N 20°21.2'	4.9'	61.3'
6	210°19.0'	267°12.6'	S 19°57.4'	86°39.8'	3.2'	N 20°16.3'	5.0'	61.3'
7	225°21.4'	282°12.4'	S 19°56.8'	101°02.0'	3.3'	N 20°11.3'	5.2'	61.3'
8	240°23.9'	297°12.2'	S 19°56.3'	115°24.3'	3.3'	N 20°06.2'	5.3'	61.3'
9	255°26.4'	312°12.1'	S 19°55.7'	129°46.6'	3.3'	N 20°00.8'	5.5'	61.3'
10	270°28.8'	327°11.9'	S 19°55.1'	144°08.9'	3.4'	N 19°55.4'	5.6'	61.3'
11	285°31.3'	342°11.7'	S 19°54.6'	158°31.2'	3.4'	N 19°49.7'	5.8'	61.3'
12	300°33.8'	357°11.5'	S 19°54.0'	172°53.7'	3.5'	N 19°44.0'	5.9'	61.3'
13	315°36.2'	12°11.3'	S 19°53.5'	187°16.1'	3.5'	N 19°38.0'	6.1'	61.3'
14	330°38.7'	27°11.2'	S 19°52.9'	201°38.6'	3.5'	N 19°32.0'	6.2'	61.4'
15	345°41.2'	42°11.0'	S 19°52.4'	216°01.2'	3.6'	N 19°25.7'	6.4'	61.4'
16	0°43.6'	57°10.8'	S 19°51.8'	230°23.7'	3.6'	N 19°19.4'	6.5'	61.4'
17	15°46.1'	72°10.7'	S 19°51.2'	244°46.4'	3.7'	N 19°12.9'	6.7'	61.4'
18	30°48.5'	87°10.5'	S 19°50.7'	259°09.1'	3.7'	N 19°06.2'	6.8'	61.4'
19	45°51.0'	102°10.3'	S 19°50.1'	273°31.8'	3.8'	N 18°59.4'	6.9'	61.4'
20	60°53.5'	117°10.1'	S 19°49.6'	287°54.6'	3.9'	N 18°52.5'	7.1'	61.4'
21	75°55.9'	132°10.0'	S 19°49.0'	302°17.5'	3.9'	N 18°45.4'	7.2'	61.4'
22	90°58.4'	147°09.8'	S 19°48.4'	316°40.4'	4.0'	N 18°38.2'	7.4'	61.4'
23	106°00.9'	162°09.6'	S 19°47.9'	331°03.4'	4.0'	N 18°30.8'	7.5'	61.4'

Tue Jan 22, 2019 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.6' SD = 16.3'		SD = 16.7'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	121°03.3'	177°09.4'	S 19°47.3'	345°26.4'	4.1'	N 18°23.4'	7.6'	61.4'
1	136°05.8'	192°09.3'	S 19°46.7'	359°49.5'	4.2'	N 18°15.7'	7.8'	61.3'
2	151°08.3'	207°09.1'	S 19°46.2'	14°12.7'	4.2'	N 18°08.0'	7.9'	61.3'
3	166°10.7'	222°08.9'	S 19°45.6'	28°35.9'	4.3'	N 18°00.1'	8.0'	61.3'
4	181°13.2'	237°08.8'	S 19°45.0'	42°59.2'	4.4'	N 17°52.1'	8.1'	61.3'
5	196°15.7'	252°08.6'	S 19°44.5'	57°22.5'	4.4'	N 17°43.9'	8.3'	61.3'
6	211°18.1'	267°08.4'	S 19°43.9'	71°46.0'	4.5'	N 17°35.7'	8.4'	61.3'
7	226°20.6'	282°08.3'	S 19°43.3'	86°09.5'	4.6'	N 17°27.3'	8.5'	61.3'
8	241°23.0'	297°08.1'	S 19°42.8'	100°33.0'	4.6'	N 17°18.7'	8.6'	61.3'
9	256°25.5'	312°07.9'	S 19°42.2'	114°56.6'	4.7'	N 17°10.1'	8.8'	61.3'
10	271°28.0'	327°07.8'	S 19°41.6'	129°20.3'	4.8'	N 17°01.3'	8.9'	61.3'
11	286°30.4'	342°07.6'	S 19°41.1'	143°44.1'	4.9'	N 16°52.4'	9.0'	61.3'
12	301°32.9'	357°07.4'	S 19°40.5'	158°08.0'	4.9'	N 16°43.4'	9.1'	61.3'
13	316°35.4'	12°07.2'	S 19°39.9'	172°31.9'	5.0'	N 16°34.3'	9.2'	61.3'
14	331°37.8'	27°07.1'	S 19°39.4'	186°55.9'	5.1'	N 16°25.1'	9.3'	61.3'
15	346°40.3'	42°06.9'	S 19°38.8'	201°20.0'	5.2'	N 16°15.7'	9.5'	61.2'
16	1°42.8'	57°06.8'	S 19°38.2'	215°44.1'	5.2'	N 16°06.3'	9.6'	61.2'
17	16°45.2'	72°06.6'	S 19°37.6'	230°08.4'	5.3'	N 15°56.7'	9.7'	61.2'
18	31°47.7'	87°06.4'	S 19°37.1'	244°32.7'	5.4'	N 15°47.0'	9.8'	61.2'
19	46°50.2'	102°06.3'	S 19°36.5'	258°57.1'	5.5'	N 15°37.3'	9.9'	61.2'
20	61°52.6'	117°06.1'	S 19°35.9'	273°21.5'	5.5'	N 15°27.4'	10.0'	61.2'
21	76°55.1'	132°05.9'	S 19°35.3'	287°46.1'	5.6'	N 15°17.4'	10.1'	61.2'
22	91°57.5'	147°05.8'	S 19°34.7'	302°10.7'	5.7'	N 15°07.3'	10.2'	61.2'
23	107°00.0'	162°05.6'	S 19°34.2'	316°35.4'	5.8'	N 14°57.1'	10.3'	61.1'

Wed Jan 23, 2019 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.6' SD = 16.3'		SD = 16.6'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	122°02.5'	177°05.4'	S 19°33.6'	331°00.2'	5.9'	N 14°46.8'	10.4'	61.1'
1	137°04.9'	192°05.3'	S 19°33.0'	345°25.1'	5.9'	N 14°36.4'	10.5'	61.1'
2	152°07.4'	207°05.1'	S 19°32.4'	359°50.0'	6.0'	N 14°25.9'	10.6'	61.1'
3	167°09.9'	222°04.9'	S 19°31.8'	14°15.0'	6.1'	N 14°15.4'	10.7'	61.1'
4	182°12.3'	237°04.8'	S 19°31.3'	28°40.2'	6.2'	N 14°04.7'	10.7'	61.1'
5	197°14.8'	252°04.6'	S 19°30.7'	43°05.3'	6.3'	N 13°54.0'	10.8'	61.0'
6	212°17.3'	267°04.5'	S 19°30.1'	57°30.6'	6.4'	N 13°43.1'	10.9'	61.0'
7	227°19.7'	282°04.3'	S 19°29.5'	71°56.0'	6.4'	N 13°32.2'	11.0'	61.0'
8	242°22.2'	297°04.1'	S 19°28.9'	86°21.4'	6.5'	N 13°21.2'	11.1'	61.0'
9	257°24.6'	312°04.0'	S 19°28.3'	100°47.0'	6.6'	N 13°10.1'	11.2'	61.0'
10	272°27.1'	327°03.8'	S 19°27.8'	115°12.6'	6.7'	N 12°59.0'	11.2'	60.9'
11	287°29.6'	342°03.7'	S 19°27.2'	129°38.3'	6.8'	N 12°47.7'	11.3'	60.9'
12	302°32.0'	357°03.5'	S 19°26.6'	144°04.0'	6.9'	N 12°36.4'	11.4'	60.9'
13	317°34.5'	12°03.3'	S 19°26.0'	158°29.9'	6.9'	N 12°25.0'	11.5'	60.9'
14	332°37.0'	27°03.2'	S 19°25.4'	172°55.8'	7.0'	N 12°13.5'	11.5'	60.8'
15	347°39.4'	42°03.0'	S 19°24.8'	187°21.8'	7.1'	N 12°02.0'	11.6'	60.8'
16	2°41.9'	57°02.9'	S 19°24.2'	201°47.9'	7.2'	N 11°50.4'	11.7'	60.8'
17	17°44.4'	72°02.7'	S 19°23.6'	216°14.1'	7.3'	N 11°38.7'	11.7'	60.8'
18	32°46.8'	87°02.6'	S 19°23.1'	230°40.4'	7.3'	N 11°27.0'	11.8'	60.8'
19	47°49.3'	102°02.4'	S 19°22.5'	245°06.7'	7.4'	N 11°15.2'	11.9'	60.7'
20	62°51.8'	117°02.2'	S 19°21.9'	259°33.2'	7.5'	N 11°03.3'	11.9'	60.7'
21	77°54.2'	132°02.1'	S 19°21.3'	273°59.7'	7.6'	N 10°51.4'	12.0'	60.7'
22	92°56.7'	147°01.9'	S 19°20.7'	288°26.3'	7.7'	N 10°39.4'	12.0'	60.6'
23	107°59.1'	162°01.8'	S 19°20.1'	302°52.9'	7.7'	N 10°27.4'	12.1'	60.6'

Thu Jan 24, 2019 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.6' SD = 16.2'		SD = 16.4'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	123°01.6'	177°01.6'	S 19°19.5'	317°19.7'	7.8'	N 10°15.3'	12.2'	60.6'
1	138°04.1'	192°01.5'	S 19°18.9'	331°46.5'	7.9'	N 10°03.1'	12.2'	60.6'
2	153°06.5'	207°01.3'	S 19°18.3'	346°13.4'	8.0'	N 9°50.9'	12.3'	60.5'
3	168°09.0'	222°01.1'	S 19°17.7'	0°40.4'	8.1'	N 9°38.6'	12.3'	60.5'
4	183°11.5'	237°01.0'	S 19°17.1'	15°07.5'	8.1'	N 9°26.3'	12.3'	60.5'
5	198°13.9'	252°00.8'	S 19°16.5'	29°34.6'	8.2'	N 9°14.0'	12.4'	60.5'
6	213°16.4'	267°00.7'	S 19°15.9'	44°01.8'	8.3'	N 9°01.6'	12.4'	60.4'
7	228°18.9'	282°00.5'	S 19°15.3'	58°29.1'	8.4'	N 8°49.2'	12.5'	60.4'
8	243°21.3'	297°00.4'	S 19°14.7'	72°56.5'	8.4'	N 8°36.7'	12.5'	60.4'
9	258°23.8'	312°00.2'	S 19°14.1'	87°23.9'	8.5'	N 8°24.2'	12.6'	60.3'
10	273°26.3'	327°00.1'	S 19°13.5'	101°51.5'	8.6'	N 8°11.6'	12.6'	60.3'
11	288°28.7'	341°59.9'	S 19°12.9'	116°19.1'	8.7'	N 7°59.0'	12.6'	60.3'
12	303°31.2'	356°59.8'	S 19°12.3'	130°46.7'	8.7'	N 7°46.4'	12.7'	60.2'
13	318°33.6'	11°59.6'	S 19°11.7'	145°14.5'	8.8'	N 7°33.7'	12.7'	60.2'
14	333°36.1'	26°59.5'	S 19°11.1'	159°42.3'	8.9'	N 7°21.1'	12.7'	60.2'
15	348°38.6'	41°59.3'	S 19°10.5'	174°10.2'	9.0'	N 7°08.3'	12.8'	60.2'
16	3°41.0'	56°59.2'	S 19°09.9'	188°38.1'	9.0'	N 6°55.6'	12.8'	60.1'
17	18°43.5'	71°59.0'	S 19°09.3'	203°06.1'	9.1'	N 6°42.8'	12.8'	60.1'
18	33°46.0'	86°58.9'	S 19°08.7'	217°34.2'	9.2'	N 6°30.0'	12.8'	60.1'
19	48°48.4'	101°58.7'	S 19°08.1'	232°02.4'	9.2'	N 6°17.2'	12.8'	60.0'
20	63°50.9'	116°58.6'	S 19°07.5'	246°30.6'	9.3'	N 6°04.3'	12.9'	60.0'
21	78°53.4'	131°58.4'	S 19°06.9'	260°58.9'	9.4'	N 5°51.5'	12.9'	60.0'
22	93°55.8'	146°58.3'	S 19°06.3'	275°27.3'	9.4'	N 5°38.6'	12.9'	59.9'
23	108°58.3'	161°58.1'	S 19°05.7'	289°55.7'	9.5'	N 5°25.7'	12.9'	59.9'

Fri Jan 25, 2019 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.6' SD = 16.2'		SD = 16.2'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	124°00.7'	176°58.0'	S 19°05.1'	304°24.2'	9.6'	N 5°12.7'	12.9'	59.9'
1	139°03.2'	191°57.8'	S 19°04.5'	318°52.8'	9.6'	N 4°59.8'	13.0'	59.8'
2	154°05.7'	206°57.7'	S 19°03.8'	333°21.4'	9.7'	N 4°46.8'	13.0'	59.8'
3	169°08.1'	221°57.5'	S 19°03.2'	347°50.1'	9.7'	N 4°33.9'	13.0'	59.8'
4	184°10.6'	236°57.4'	S 19°02.6'	2°18.8'	9.8'	N 4°20.9'	13.0'	59.7'
5	199°13.1'	251°57.3'	S 19°02.0'	16°47.6'	9.9'	N 4°07.9'	13.0'	59.7'
6	214°15.5'	266°57.1'	S 19°01.4'	31°16.5'	9.9'	N 3°54.9'	13.0'	59.7'
7	229°18.0'	281°57.0'	S 19°00.8'	45°45.4'	10.0'	N 3°41.9'	13.0'	59.6'
8	244°20.5'	296°56.8'	S 19°00.2'	60°14.4'	10.0'	N 3°28.9'	13.0'	59.6'
9	259°22.9'	311°56.7'	S 18°59.6'	74°43.4'	10.1'	N 3°15.9'	13.0'	59.5'
10	274°25.4'	326°56.5'	S 18°58.9'	89°12.5'	10.2'	N 3°02.9'	13.0'	59.5'
11	289°27.9'	341°56.4'	S 18°58.3'	103°41.7'	10.2'	N 2°49.9'	13.0'	59.5'
12	304°30.3'	356°56.2'	S 18°57.7'	118°10.9'	10.3'	N 2°36.9'	13.0'	59.4'
13	319°32.8'	11°56.1'	S 18°57.1'	132°40.2'	10.3'	N 2°23.9'	13.0'	59.4'
14	334°35.2'	26°56.0'	S 18°56.5'	147°09.5'	10.4'	N 2°10.9'	13.0'	59.4'
15	349°37.7'	41°55.8'	S 18°55.9'	161°38.8'	10.4'	N 1°57.9'	13.0'	59.3'
16	4°40.2'	56°55.7'	S 18°55.2'	176°08.3'	10.5'	N 1°44.9'	13.0'	59.3'
17	19°42.6'	71°55.5'	S 18°54.6'	190°37.7'	10.5'	N 1°31.9'	13.0'	59.3'
18	34°45.1'	86°55.4'	S 18°54.0'	205°07.2'	10.6'	N 1°18.9'	13.0'	59.2'
19	49°47.6'	101°55.2'	S 18°53.4'	219°36.8'	10.6'	N 1°06.0'	13.0'	59.2'
20	64°50.0'	116°55.1'	S 18°52.8'	234°06.4'	10.7'	N 0°53.0'	12.9'	59.1'
21	79°52.5'	131°55.0'	S 18°52.1'	248°36.1'	10.7'	N 0°40.1'	12.9'	59.1'
22	94°55.0'	146°54.8'	S 18°51.5'	263°05.8'	10.7'	N 0°27.1'	12.9'	59.1'
23	109°57.4'	161°54.7'	S 18°50.9'	277°35.5'	10.8'	N 0°14.2'	12.9'	59.0'

Sat Jan 26, 2019 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.6' SD = 16.2'		SD = 16.0'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	124°59.9'	176°54.5'	S 18°50.3'	292°05.3'	10.8'	N 0°01.3'	12.9'	59.0'
1	140°02.3'	191°54.4'	S 18°49.6'	306°35.2'	10.9'	S 0°11.6'	12.9'	59.0'
2	155°04.8'	206°54.3'	S 18°49.0'	321°05.0'	10.9'	S 0°24.4'	12.8'	58.9'
3	170°07.3'	221°54.1'	S 18°48.4'	335°35.0'	11.0'	S 0°37.3'	12.8'	58.9'
4	185°09.7'	236°54.0'	S 18°47.8'	350°04.9'	11.0'	S 0°50.1'	12.8'	58.9'
5	200°12.2'	251°53.9'	S 18°47.1'	4°34.9'	11.0'	S 1°02.9'	12.8'	58.8'
6	215°14.7'	266°53.7'	S 18°46.5'	19°04.9'	11.1'	S 1°15.7'	12.8'	58.8'
7	230°17.1'	281°53.6'	S 18°45.9'	33°35.0'	11.1'	S 1°28.5'	12.7'	58.7'
8	245°19.6'	296°53.4'	S 18°45.3'	48°05.1'	11.1'	S 1°41.2'	12.7'	58.7'
9	260°22.1'	311°53.3'	S 18°44.6'	62°35.3'	11.2'	S 1°53.9'	12.7'	58.7'
10	275°24.5'	326°53.2'	S 18°44.0'	77°05.5'	11.2'	S 2°06.6'	12.7'	58.6'
11	290°27.0'	341°53.0'	S 18°43.4'	91°35.7'	11.2'	S 2°19.2'	12.6'	58.6'
12	305°29.5'	356°52.9'	S 18°42.7'	106°05.9'	11.3'	S 2°31.9'	12.6'	58.6'
13	320°31.9'	11°52.8'	S 18°42.1'	120°36.2'	11.3'	S 2°44.5'	12.6'	58.5'
14	335°34.4'	26°52.6'	S 18°41.5'	135°06.5'	11.3'	S 2°57.0'	12.5'	58.5'
15	350°36.8'	41°52.5'	S 18°40.9'	149°36.9'	11.4'	S 3°09.6'	12.5'	58.4'
16	5°39.3'	56°52.4'	S 18°40.2'	164°07.2'	11.4'	S 3°22.1'	12.5'	58.4'
17	20°41.8'	71°52.2'	S 18°39.6'	178°37.6'	11.4'	S 3°34.5'	12.4'	58.4'
18	35°44.2'	86°52.1'	S 18°39.0'	193°08.1'	11.5'	S 3°47.0'	12.4'	58.3'
19	50°46.7'	101°52.0'	S 18°38.3'	207°38.5'	11.5'	S 3°59.4'	12.4'	58.3'
20	65°49.2'	116°51.8'	S 18°37.7'	222°09.0'	11.5'	S 4°11.7'	12.3'	58.3'
21	80°51.6'	131°51.7'	S 18°37.0'	236°39.5'	11.5'	S 4°24.0'	12.3'	58.2'
22	95°54.1'	146°51.6'	S 18°36.4'	251°10.0'	11.6'	S 4°36.3'	12.2'	58.2'
23	110°56.6'	161°51.4'	S 18°35.8'	265°40.6'	11.6'	S 4°48.6'	12.2'	58.1'

Sun Jan 27, 2019 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.6' SD = 16.2'		SD = 15.7'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	125°59.0'	176°51.3'	S 18°35.1'	280°11.2'	11.6'	S 5°00.8'	12.2'	58.1'
1	141°01.5'	191°51.2'	S 18°34.5'	294°41.8'	11.6'	S 5°12.9'	12.1'	58.1'
2	156°04.0'	206°51.0'	S 18°33.9'	309°12.4'	11.6'	S 5°25.0'	12.1'	58.0'
3	171°06.4'	221°50.9'	S 18°33.2'	323°43.0'	11.7'	S 5°37.1'	12.0'	58.0'
4	186°08.9'	236°50.8'	S 18°32.6'	338°13.7'	11.7'	S 5°49.2'	12.0'	58.0'
5	201°11.3'	251°50.7'	S 18°31.9'	352°44.4'	11.7'	S 6°01.1'	11.9'	57.9'
6	216°13.8'	266°50.5'	S 18°31.3'	7°15.1'	11.7'	S 6°13.1'	11.9'	57.9'
7	231°16.3'	281°50.4'	S 18°30.7'	21°45.8'	11.7'	S 6°25.0'	11.8'	57.8'
8	246°18.7'	296°50.3'	S 18°30.0'	36°16.5'	11.7'	S 6°36.8'	11.8'	57.8'
9	261°21.2'	311°50.1'	S 18°29.4'	50°47.2'	11.8'	S 6°48.6'	11.7'	57.8'
10	276°23.7'	326°50.0'	S 18°28.7'	65°18.0'	11.8'	S 7°00.3'	11.7'	57.7'
11	291°26.1'	341°49.9'	S 18°28.1'	79°48.8'	11.8'	S 7°12.0'	11.6'	57.7'
12	306°28.6'	356°49.8'	S 18°27.4'	94°19.6'	11.8'	S 7°23.7'	11.6'	57.7'
13	321°31.1'	11°49.6'	S 18°26.8'	108°50.4'	11.8'	S 7°35.3'	11.5'	57.6'
14	336°33.5'	26°49.5'	S 18°26.1'	123°21.2'	11.8'	S 7°46.8'	11.5'	57.6'
15	351°36.0'	41°49.4'	S 18°25.5'	137°52.0'	11.8'	S 7°58.3'	11.4'	57.6'
16	6°38.4'	56°49.3'	S 18°24.9'	152°22.8'	11.8'	S 8°09.7'	11.4'	57.5'
17	21°40.9'	71°49.1'	S 18°24.2'	166°53.7'	11.8'	S 8°21.1'	11.3'	57.5'
18	36°43.4'	86°49.0'	S 18°23.6'	181°24.5'	11.9'	S 8°32.4'	11.3'	57.5'
19	51°45.8'	101°48.9'	S 18°22.9'	195°55.4'	11.9'	S 8°43.7'	11.2'	57.4'
20	66°48.3'	116°48.8'	S 18°22.3'	210°26.2'	11.9'	S 8°54.9'	11.1'	57.4'
21	81°50.8'	131°48.6'	S 18°21.6'	224°57.1'	11.9'	S 9°06.0'	11.1'	57.3'
22	96°53.2'	146°48.5'	S 18°21.0'	239°28.0'	11.9'	S 9°17.1'	11.0'	57.3'
23	111°55.7'	161°48.4'	S 18°20.3'	253°58.9'	11.9'	S 9°28.2'	11.0'	57.3'

Mon Jan 28, 2019 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.7' SD = 16.2'		SD = 15.5'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	126°58.2'	176°48.3'	S 18°19.7'	268°29.8'	11.9'	S 9°39.1'	10.9'	57.2'
1	142°00.6'	191°48.1'	S 18°19.0'	283°00.6'	11.9'	S 9°50.0'	10.8'	57.2'
2	157°03.1'	206°48.0'	S 18°18.4'	297°31.5'	11.9'	S 10°00.9'	10.8'	57.2'
3	172°05.6'	221°47.9'	S 18°17.7'	312°02.4'	11.9'	S 10°11.7'	10.7'	57.1'
4	187°08.0'	236°47.8'	S 18°17.0'	326°33.3'	11.9'	S 10°22.4'	10.7'	57.1'
5	202°10.5'	251°47.7'	S 18°16.4'	341°04.2'	11.9'	S 10°33.0'	10.6'	57.1'
6	217°12.9'	266°47.5'	S 18°15.7'	355°35.1'	11.9'	S 10°43.6'	10.5'	57.0'
7	232°15.4'	281°47.4'	S 18°15.1'	10°06.0'	11.9'	S 10°54.2'	10.5'	57.0'
8	247°17.9'	296°47.3'	S 18°14.4'	24°36.9'	11.9'	S 11°04.6'	10.4'	57.0'
9	262°20.3'	311°47.2'	S 18°13.8'	39°07.8'	11.9'	S 11°15.0'	10.3'	56.9'
10	277°22.8'	326°47.1'	S 18°13.1'	53°38.7'	11.9'	S 11°25.3'	10.3'	56.9'
11	292°25.3'	341°46.9'	S 18°12.5'	68°09.6'	11.9'	S 11°35.6'	10.2'	56.9'
12	307°27.7'	356°46.8'	S 18°11.8'	82°40.5'	11.9'	S 11°45.8'	10.1'	56.8'
13	322°30.2'	11°46.7'	S 18°11.1'	97°11.4'	11.9'	S 11°55.9'	10.0'	56.8'
14	337°32.7'	26°46.6'	S 18°10.5'	111°42.3'	11.9'	S 12°06.0'	10.0'	56.8'
15	352°35.1'	41°46.5'	S 18°09.8'	126°13.2'	11.9'	S 12°15.9'	9.9'	56.7'
16	7°37.6'	56°46.3'	S 18°09.2'	140°44.1'	11.9'	S 12°25.8'	9.8'	56.7'
17	22°40.1'	71°46.2'	S 18°08.5'	155°15.0'	11.9'	S 12°35.7'	9.8'	56.7'
18	37°42.5'	86°46.1'	S 18°07.8'	169°45.8'	11.9'	S 12°45.4'	9.7'	56.6'
19	52°45.0'	101°46.0'	S 18°07.2'	184°16.7'	11.9'	S 12°55.1'	9.6'	56.6'
20	67°47.4'	116°45.9'	S 18°06.5'	198°47.6'	11.9'	S 13°04.7'	9.5'	56.6'
21	82°49.9'	131°45.8'	S 18°05.8'	213°18.4'	11.8'	S 13°14.3'	9.5'	56.5'
22	97°52.4'	146°45.6'	S 18°05.2'	227°49.3'	11.8'	S 13°23.7'	9.4'	56.5'
23	112°54.8'	161°45.5'	S 18°04.5'	242°20.1'	11.8'	S 13°33.1'	9.3'	56.5'

Tue Jan 29, 2019 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.7' SD = 16.2'		SD = 15.3'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	127°57.3'	176°45.4'	S 18°03.9'	256°50.9'	11.8'	S 13°42.4'	9.2'	56.5'
1	142°59.8'	191°45.3'	S 18°03.2'	271°21.7'	11.8'	S 13°51.7'	9.2'	56.4'
2	158°02.2'	206°45.2'	S 18°02.5'	285°52.6'	11.8'	S 14°00.8'	9.1'	56.4'
3	173°04.7'	221°45.1'	S 18°01.9'	300°23.4'	11.8'	S 14°09.9'	9.0'	56.4'
4	188°07.2'	236°45.0'	S 18°01.2'	314°54.2'	11.8'	S 14°18.9'	8.9'	56.3'
5	203°09.6'	251°44.8'	S 18°00.5'	329°24.9'	11.8'	S 14°27.9'	8.8'	56.3'
6	218°12.1'	266°44.7'	S 17°59.8'	343°55.7'	11.8'	S 14°36.7'	8.8'	56.3'
7	233°14.5'	281°44.6'	S 17°59.2'	358°26.5'	11.8'	S 14°45.5'	8.7'	56.2'
8	248°17.0'	296°44.5'	S 17°58.5'	12°57.2'	11.7'	S 14°54.1'	8.6'	56.2'
9	263°19.5'	311°44.4'	S 17°57.8'	27°28.0'	11.7'	S 15°02.7'	8.5'	56.2'
10	278°21.9'	326°44.3'	S 17°57.2'	41°58.7'	11.7'	S 15°11.3'	8.4'	56.2'
11	293°24.4'	341°44.2'	S 17°56.5'	56°29.4'	11.7'	S 15°19.7'	8.4'	56.1'
12	308°26.9'	356°44.1'	S 17°55.8'	71°00.1'	11.7'	S 15°28.1'	8.3'	56.1'
13	323°29.3'	11°44.0'	S 17°55.2'	85°30.8'	11.7'	S 15°36.3'	8.2'	56.1'
14	338°31.8'	26°43.8'	S 17°54.5'	100°01.5'	11.7'	S 15°44.5'	8.1'	56.0'
15	353°34.3'	41°43.7'	S 17°53.8'	114°32.2'	11.7'	S 15°52.6'	8.0'	56.0'
16	8°36.7'	56°43.6'	S 17°53.1'	129°02.8'	11.6'	S 16°00.6'	7.9'	56.0'
17	23°39.2'	71°43.5'	S 17°52.5'	143°33.5'	11.6'	S 16°08.6'	7.8'	56.0'
18	38°41.7'	86°43.4'	S 17°51.8'	158°04.1'	11.6'	S 16°16.4'	7.8'	55.9'
19	53°44.1'	101°43.3'	S 17°51.1'	172°34.7'	11.6'	S 16°24.2'	7.7'	55.9'
20	68°46.6'	116°43.2'	S 17°50.4'	187°05.3'	11.6'	S 16°31.8'	7.6'	55.9'
21	83°49.0'	131°43.1'	S 17°49.8'	201°35.9'	11.6'	S 16°39.4'	7.5'	55.9'
22	98°51.5'	146°43.0'	S 17°49.1'	216°06.5'	11.6'	S 16°46.9'	7.4'	55.8'
23	113°54.0'	161°42.9'	S 17°48.4'	230°37.1'	11.6'	S 16°54.3'	7.3'	55.8'

Wed Jan 30, 2019 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.7' SD = 16.2'		SD = 15.1'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	128°56.4'	176°42.8'	S 17°47.7'	245°07.6'	11.5'	S 17°01.7'	7.2'	55.8'
1	143°58.9'	191°42.7'	S 17°47.0'	259°38.2'	11.5'	S 17°08.9'	7.1'	55.7'
2	159°01.4'	206°42.6'	S 17°46.4'	274°08.7'	11.5'	S 17°16.0'	7.1'	55.7'
3	174°03.8'	221°42.4'	S 17°45.7'	288°39.2'	11.5'	S 17°23.1'	7.0'	55.7'
4	189°06.3'	236°42.3'	S 17°45.0'	303°09.7'	11.5'	S 17°30.0'	6.9'	55.7'
5	204°08.8'	251°42.2'	S 17°44.3'	317°40.2'	11.5'	S 17°36.9'	6.8'	55.6'
6	219°11.2'	266°42.1'	S 17°43.6'	332°10.7'	11.5'	S 17°43.7'	6.7'	55.6'
7	234°13.7'	281°42.0'	S 17°43.0'	346°41.1'	11.4'	S 17°50.4'	6.6'	55.6'
8	249°16.2'	296°41.9'	S 17°42.3'	1°11.6'	11.4'	S 17°57.0'	6.5'	55.6'
9	264°18.6'	311°41.8'	S 17°41.6'	15°42.0'	11.4'	S 18°03.5'	6.4'	55.5'
10	279°21.1'	326°41.7'	S 17°40.9'	30°12.4'	11.4'	S 18°09.9'	6.3'	55.5'
11	294°23.5'	341°41.6'	S 17°40.2'	44°42.8'	11.4'	S 18°16.2'	6.2'	55.5'
12	309°26.0'	356°41.5'	S 17°39.5'	59°13.2'	11.4'	S 18°22.4'	6.1'	55.5'
13	324°28.5'	11°41.4'	S 17°38.8'	73°43.6'	11.4'	S 18°28.5'	6.0'	55.5'
14	339°30.9'	26°41.3'	S 17°38.2'	88°14.0'	11.4'	S 18°34.5'	5.9'	55.4'
15	354°33.4'	41°41.2'	S 17°37.5'	102°44.3'	11.3'	S 18°40.5'	5.8'	55.4'
16	9°35.9'	56°41.1'	S 17°36.8'	117°14.7'	11.3'	S 18°46.3'	5.7'	55.4'
17	24°38.3'	71°41.0'	S 17°36.1'	131°45.0'	11.3'	S 18°52.1'	5.6'	55.4'
18	39°40.8'	86°40.9'	S 17°35.4'	146°15.3'	11.3'	S 18°57.7'	5.6'	55.3'
19	54°43.3'	101°40.8'	S 17°34.7'	160°45.6'	11.3'	S 19°03.3'	5.5'	55.3'
20	69°45.7'	116°40.7'	S 17°34.0'	175°15.9'	11.3'	S 19°08.7'	5.4'	55.3'
21	84°48.2'	131°40.6'	S 17°33.3'	189°46.2'	11.3'	S 19°14.1'	5.3'	55.3'
22	99°50.7'	146°40.5'	S 17°32.7'	204°16.4'	11.3'	S 19°19.3'	5.2'	55.3'
23	114°53.1'	161°40.4'	S 17°32.0'	218°46.7'	11.2'	S 19°24.5'	5.1'	55.2'

Thu Jan 31, 2019 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.7' SD = 16.2'		SD = 15.0'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	129°55.6'	176°40.3'	S 17°31.3'	233°16.9'	11.2'	S 19°29.6'	5.0'	55.2'
1	144°58.0'	191°40.2'	S 17°30.6'	247°47.2'	11.2'	S 19°34.5'	4.9'	55.2'
2	160°00.5'	206°40.1'	S 17°29.9'	262°17.4'	11.2'	S 19°39.4'	4.8'	55.2'
3	175°03.0'	221°40.0'	S 17°29.2'	276°47.6'	11.2'	S 19°44.1'	4.7'	55.1'
4	190°05.4'	236°39.9'	S 17°28.5'	291°17.8'	11.2'	S 19°48.8'	4.6'	55.1'
5	205°07.9'	251°39.8'	S 17°27.8'	305°48.0'	11.2'	S 19°53.4'	4.5'	55.1'
6	220°10.4'	266°39.7'	S 17°27.1'	320°18.2'	11.2'	S 19°57.8'	4.4'	55.1'
7	235°12.8'	281°39.6'	S 17°26.4'	334°48.3'	11.2'	S 20°02.2'	4.3'	55.1'
8	250°15.3'	296°39.5'	S 17°25.7'	349°18.5'	11.2'	S 20°06.5'	4.2'	55.0'
9	265°17.8'	311°39.4'	S 17°25.0'	3°48.6'	11.1'	S 20°10.6'	4.1'	55.0'
10	280°20.2'	326°39.3'	S 17°24.3'	18°18.8'	11.1'	S 20°14.7'	4.0'	55.0'
11	295°22.7'	341°39.3'	S 17°23.6'	32°48.9'	11.1'	S 20°18.7'	3.9'	55.0'
12	310°25.1'	356°39.2'	S 17°22.9'	47°19.0'	11.1'	S 20°22.5'	3.8'	55.0'
13	325°27.6'	11°39.1'	S 17°22.2'	61°49.2'	11.1'	S 20°26.3'	3.7'	55.0'
14	340°30.1'	26°39.0'	S 17°21.5'	76°19.3'	11.1'	S 20°29.9'	3.6'	54.9'
15	355°32.5'	41°38.9'	S 17°20.8'	90°49.4'	11.1'	S 20°33.5'	3.5'	54.9'
16	10°35.0'	56°38.8'	S 17°20.1'	105°19.5'	11.1'	S 20°37.0'	3.4'	54.9'
17	25°37.5'	71°38.7'	S 17°19.4'	119°49.6'	11.1'	S 20°40.3'	3.2'	54.9'
18	40°39.9'	86°38.6'	S 17°18.7'	134°19.7'	11.1'	S 20°43.6'	3.1'	54.9'
19	55°42.4'	101°38.5'	S 17°18.0'	148°49.8'	11.1'	S 20°46.7'	3.0'	54.8'
20	70°44.9'	116°38.4'	S 17°17.3'	163°19.8'	11.1'	S 20°49.7'	2.9'	54.8'
21	85°47.3'	131°38.3'	S 17°16.6'	177°49.9'	11.1'	S 20°52.7'	2.8'	54.8'
22	100°49.8'	146°38.2'	S 17°15.9'	192°20.0'	11.1'	S 20°55.5'	2.7'	54.8'
23	115°52.3'	161°38.1'	S 17°15.2'	206°50.1'	11.1'	S 20°58.2'	2.6'	54.8'