

Wed Aug 1, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.6' SD = 15.8'		SD = 15.1'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	309°33.2'	178°24.6'	N 18°04.7'	313°05.9'	14.6'	S 5°51.9'	10.4'	55.0'
1	324°35.7'	193°24.6'	N 18°04.1'	327°39.4'	14.6'	S 5°41.4'	10.5'	55.0'
2	339°38.1'	208°24.6'	N 18°03.4'	342°13.0'	14.6'	S 5°30.9'	10.5'	55.1'
3	354°40.6'	223°24.7'	N 18°02.8'	356°46.5'	14.6'	S 5°20.4'	10.5'	55.1'
4	9°43.0'	238°24.7'	N 18°02.2'	11°20.1'	14.6'	S 5°09.9'	10.6'	55.1'
5	24°45.5'	253°24.7'	N 18°01.6'	25°53.7'	14.6'	S 4°59.3'	10.6'	55.1'
6	39°48.0'	268°24.8'	N 18°00.9'	40°27.2'	14.6'	S 4°48.7'	10.6'	55.1'
7	54°50.4'	283°24.8'	N 18°00.3'	55°00.8'	14.5'	S 4°38.1'	10.6'	55.2'
8	69°52.9'	298°24.9'	N 17°59.7'	69°34.3'	14.5'	S 4°27.5'	10.7'	55.2'
9	84°55.4'	313°24.9'	N 17°59.0'	84°07.9'	14.5'	S 4°16.8'	10.7'	55.2'
10	99°57.8'	328°24.9'	N 17°58.4'	98°41.4'	14.5'	S 4°06.1'	10.7'	55.2'
11	115°00.3'	343°25.0'	N 17°57.8'	113°14.9'	14.5'	S 3°55.4'	10.7'	55.2'
12	130°02.8'	358°25.0'	N 17°57.1'	127°48.5'	14.5'	S 3°44.6'	10.8'	55.3'
13	145°05.2'	13°25.1'	N 17°56.5'	142°22.0'	14.5'	S 3°33.9'	10.8'	55.3'
14	160°07.7'	28°25.1'	N 17°55.9'	156°55.5'	14.5'	S 3°23.1'	10.8'	55.3'
15	175°10.2'	43°25.1'	N 17°55.2'	171°29.0'	14.5'	S 3°12.2'	10.8'	55.3'
16	190°12.6'	58°25.2'	N 17°54.6'	186°02.5'	14.5'	S 3°01.4'	10.9'	55.3'
17	205°15.1'	73°25.2'	N 17°54.0'	200°36.0'	14.5'	S 2°50.6'	10.9'	55.4'
18	220°17.5'	88°25.3'	N 17°53.3'	215°09.4'	14.5'	S 2°39.7'	10.9'	55.4'
19	235°20.0'	103°25.3'	N 17°52.7'	229°42.9'	14.4'	S 2°28.8'	10.9'	55.4'
20	250°22.5'	118°25.3'	N 17°52.1'	244°16.3'	14.4'	S 2°17.9'	10.9'	55.4'
21	265°24.9'	133°25.4'	N 17°51.4'	258°49.7'	14.4'	S 2°06.9'	10.9'	55.5'
22	280°27.4'	148°25.4'	N 17°50.8'	273°23.2'	14.4'	S 1°56.0'	11.0'	55.5'
23	295°29.9'	163°25.5'	N 17°50.2'	287°56.6'	14.4'	S 1°45.0'	11.0'	55.5'

Thu Aug 2, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.6' SD = 15.8'		SD = 15.2'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	310°32.3'	178°25.5'	N 17°49.5'	302°29.9'	14.4'	S 1°34.0'	11.0'	55.5'
1	325°34.8'	193°25.6'	N 17°48.9'	317°03.3'	14.3'	S 1°23.1'	11.0'	55.6'
2	340°37.3'	208°25.6'	N 17°48.2'	331°36.6'	14.3'	S 1°12.0'	11.0'	55.6'
3	355°39.7'	223°25.6'	N 17°47.6'	346°10.0'	14.3'	S 1°01.0'	11.0'	55.6'
4	10°42.2'	238°25.7'	N 17°47.0'	0°43.3'	14.3'	S 0°50.0'	11.0'	55.6'
5	25°44.6'	253°25.7'	N 17°46.3'	15°16.6'	14.3'	S 0°38.9'	11.1'	55.6'
6	40°47.1'	268°25.8'	N 17°45.7'	29°49.8'	14.2'	S 0°27.9'	11.1'	55.7'
7	55°49.6'	283°25.8'	N 17°45.0'	44°23.1'	14.2'	S 0°16.8'	11.1'	55.7'
8	70°52.0'	298°25.9'	N 17°44.4'	58°56.3'	14.2'	S 0°05.7'	11.1'	55.7'
9	85°54.5'	313°25.9'	N 17°43.8'	73°29.5'	14.2'	N 0°05.4'	11.1'	55.7'
10	100°57.0'	328°26.0'	N 17°43.1'	88°02.7'	14.1'	N 0°16.5'	11.1'	55.8'
11	115°59.4'	343°26.0'	N 17°42.5'	102°35.8'	14.1'	N 0°27.6'	11.1'	55.8'
12	131°01.9'	358°26.1'	N 17°41.8'	117°08.9'	14.1'	N 0°38.7'	11.1'	55.8'
13	146°04.4'	13°26.1'	N 17°41.2'	131°42.0'	14.1'	N 0°49.8'	11.1'	55.8'
14	161°06.8'	28°26.1'	N 17°40.5'	146°15.1'	14.0'	N 1°00.9'	11.1'	55.9'
15	176°09.3'	43°26.2'	N 17°39.9'	160°48.1'	14.0'	N 1°12.1'	11.1'	55.9'
16	191°11.8'	58°26.2'	N 17°39.3'	175°21.1'	14.0'	N 1°23.2'	11.1'	55.9'
17	206°14.2'	73°26.3'	N 17°38.6'	189°54.1'	13.9'	N 1°34.4'	11.1'	56.0'
18	221°16.7'	88°26.3'	N 17°38.0'	204°27.1'	13.9'	N 1°45.5'	11.1'	56.0'
19	236°19.1'	103°26.4'	N 17°37.3'	218°60.0'	13.9'	N 1°56.7'	11.1'	56.0'
20	251°21.6'	118°26.4'	N 17°36.7'	233°32.9'	13.8'	N 2°07.8'	11.1'	56.0'
21	266°24.1'	133°26.5'	N 17°36.0'	248°05.7'	13.8'	N 2°18.9'	11.1'	56.1'
22	281°26.5'	148°26.5'	N 17°35.4'	262°38.5'	13.8'	N 2°30.1'	11.1'	56.1'
23	296°29.0'	163°26.6'	N 17°34.7'	277°11.3'	13.7'	N 2°41.2'	11.1'	56.1'

Fri Aug 3, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.7' SD = 15.8'		SD = 15.4'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	311°31.5'	178°26.6'	N 17°34.1'	291°44.0'	13.7'	N 2°52.4'	11.1'	56.1'
1	326°33.9'	193°26.7'	N 17°33.4'	306°16.7'	13.7'	N 3°03.5'	11.1'	56.2'
2	341°36.4'	208°26.7'	N 17°32.8'	320°49.4'	13.6'	N 3°14.7'	11.1'	56.2'
3	356°38.9'	223°26.8'	N 17°32.1'	335°22.0'	13.6'	N 3°25.8'	11.1'	56.2'
4	11°41.3'	238°26.8'	N 17°31.5'	349°54.6'	13.5'	N 3°36.9'	11.1'	56.3'
5	26°43.8'	253°26.9'	N 17°30.8'	4°27.2'	13.5'	N 3°48.1'	11.1'	56.3'
6	41°46.3'	268°26.9'	N 17°30.2'	18°59.7'	13.5'	N 3°59.2'	11.1'	56.3'
7	56°48.7'	283°27.0'	N 17°29.5'	33°32.1'	13.4'	N 4°10.3'	11.1'	56.3'
8	71°51.2'	298°27.0'	N 17°28.9'	48°04.5'	13.4'	N 4°21.4'	11.1'	56.4'
9	86°53.6'	313°27.1'	N 17°28.2'	62°36.9'	13.3'	N 4°32.5'	11.1'	56.4'
10	101°56.1'	328°27.1'	N 17°27.5'	77°09.2'	13.3'	N 4°43.6'	11.1'	56.4'
11	116°58.6'	343°27.2'	N 17°26.9'	91°41.5'	13.2'	N 4°54.7'	11.1'	56.5'
12	132°01.0'	358°27.2'	N 17°26.2'	106°13.7'	13.2'	N 5°05.7'	11.1'	56.5'
13	147°03.5'	13°27.3'	N 17°25.6'	120°45.9'	13.1'	N 5°16.8'	11.0'	56.5'
14	162°06.0'	28°27.3'	N 17°24.9'	135°18.0'	13.1'	N 5°27.8'	11.0'	56.6'
15	177°08.4'	43°27.4'	N 17°24.3'	149°50.1'	13.0'	N 5°38.8'	11.0'	56.6'
16	192°10.9'	58°27.4'	N 17°23.6'	164°22.2'	13.0'	N 5°49.9'	11.0'	56.6'
17	207°13.4'	73°27.5'	N 17°23.0'	178°54.1'	12.9'	N 6°00.8'	11.0'	56.6'
18	222°15.8'	88°27.5'	N 17°22.3'	193°26.1'	12.9'	N 6°11.8'	11.0'	56.7'
19	237°18.3'	103°27.6'	N 17°21.6'	207°57.9'	12.8'	N 6°22.8'	10.9'	56.7'
20	252°20.7'	118°27.7'	N 17°21.0'	222°29.8'	12.8'	N 6°33.7'	10.9'	56.7'
21	267°23.2'	133°27.7'	N 17°20.3'	237°01.5'	12.7'	N 6°44.6'	10.9'	56.8'
22	282°25.7'	148°27.8'	N 17°19.7'	251°33.2'	12.7'	N 6°55.5'	10.9'	56.8'
23	297°28.1'	163°27.8'	N 17°19.0'	266°04.9'	12.6'	N 7°06.4'	10.9'	56.8'

Sat Aug 4, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.7' SD = 15.8'		SD = 15.6'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	312°30.6'	178°27.9'	N 17°18.3'	280°36.5'	12.5'	N 7°17.3'	10.8'	56.9'
1	327°33.1'	193°27.9'	N 17°17.7'	295°08.0'	12.5'	N 7°28.1'	10.8'	56.9'
2	342°35.5'	208°28.0'	N 17°17.0'	309°39.5'	12.4'	N 7°38.9'	10.8'	56.9'
3	357°38.0'	223°28.0'	N 17°16.3'	324°10.9'	12.4'	N 7°49.7'	10.8'	57.0'
4	12°40.5'	238°28.1'	N 17°15.7'	338°42.2'	12.3'	N 8°00.5'	10.7'	57.0'
5	27°42.9'	253°28.2'	N 17°15.0'	353°13.5'	12.2'	N 8°11.2'	10.7'	57.0'
6	42°45.4'	268°28.2'	N 17°14.4'	7°44.8'	12.2'	N 8°21.9'	10.7'	57.1'
7	57°47.9'	283°28.3'	N 17°13.7'	22°15.9'	12.1'	N 8°32.6'	10.6'	57.1'
8	72°50.3'	298°28.3'	N 17°13.0'	36°47.0'	12.0'	N 8°43.2'	10.6'	57.1'
9	87°52.8'	313°28.4'	N 17°12.4'	51°18.1'	12.0'	N 8°53.9'	10.6'	57.2'
10	102°55.2'	328°28.4'	N 17°11.7'	65°49.0'	11.9'	N 9°04.4'	10.6'	57.2'
11	117°57.7'	343°28.5'	N 17°11.0'	80°19.9'	11.8'	N 9°15.0'	10.5'	57.2'
12	133°00.2'	358°28.6'	N 17°10.4'	94°50.7'	11.8'	N 9°25.5'	10.5'	57.3'
13	148°02.6'	13°28.6'	N 17°09.7'	109°21.5'	11.7'	N 9°36.0'	10.4'	57.3'
14	163°05.1'	28°28.7'	N 17°09.0'	123°52.2'	11.6'	N 9°46.4'	10.4'	57.3'
15	178°07.6'	43°28.7'	N 17°08.4'	138°22.8'	11.5'	N 9°56.9'	10.4'	57.4'
16	193°10.0'	58°28.8'	N 17°07.7'	152°53.4'	11.5'	N 10°07.2'	10.3'	57.4'
17	208°12.5'	73°28.9'	N 17°07.0'	167°23.8'	11.4'	N 10°17.6'	10.3'	57.4'
18	223°15.0'	88°28.9'	N 17°06.3'	181°54.3'	11.3'	N 10°27.9'	10.3'	57.5'
19	238°17.4'	103°29.0'	N 17°05.7'	196°24.6'	11.3'	N 10°38.1'	10.2'	57.5'
20	253°19.9'	118°29.0'	N 17°05.0'	210°54.8'	11.2'	N 10°48.3'	10.2'	57.5'
21	268°22.3'	133°29.1'	N 17°04.3'	225°25.0'	11.1'	N 10°58.5'	10.1'	57.6'
22	283°24.8'	148°29.2'	N 17°03.7'	239°55.1'	11.0'	N 11°08.6'	10.1'	57.6'
23	298°27.3'	163°29.2'	N 17°03.0'	254°25.1'	10.9'	N 11°18.7'	10.0'	57.6'

Sun Aug 5, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.7' SD = 15.8'		SD = 15.8'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	313°29.7'	178°29.3'	N 17°02.3'	268°55.1'	10.9'	N 11°28.7'	10.0'	57.7'
1	328°32.2'	193°29.3'	N 17°01.6'	283°25.0'	10.8'	N 11°38.7'	9.9'	57.7'
2	343°34.7'	208°29.4'	N 17°01.0'	297°54.8'	10.7'	N 11°48.6'	9.9'	57.7'
3	358°37.1'	223°29.5'	N 17°00.3'	312°24.5'	10.6'	N 11°58.5'	9.8'	57.8'
4	13°39.6'	238°29.5'	N 16°59.6'	326°54.1'	10.6'	N 12°08.3'	9.8'	57.8'
5	28°42.1'	253°29.6'	N 16°58.9'	341°23.7'	10.5'	N 12°18.1'	9.7'	57.9'
6	43°44.5'	268°29.6'	N 16°58.3'	355°53.1'	10.4'	N 12°27.8'	9.7'	57.9'
7	58°47.0'	283°29.7'	N 16°57.6'	10°22.5'	10.3'	N 12°37.5'	9.6'	57.9'
8	73°49.5'	298°29.8'	N 16°56.9'	24°51.8'	10.2'	N 12°47.1'	9.6'	58.0'
9	88°51.9'	313°29.8'	N 16°56.2'	39°21.0'	10.1'	N 12°56.7'	9.5'	58.0'
10	103°54.4'	328°29.9'	N 16°55.6'	53°50.2'	10.1'	N 13°06.2'	9.4'	58.0'
11	118°56.8'	343°30.0'	N 16°54.9'	68°19.2'	10.0'	N 13°15.6'	9.4'	58.1'
12	133°59.3'	358°30.0'	N 16°54.2'	82°48.2'	9.9'	N 13°25.0'	9.3'	58.1'
13	149°01.8'	13°30.1'	N 16°53.5'	97°17.1'	9.8'	N 13°34.3'	9.3'	58.1'
14	164°04.2'	28°30.2'	N 16°52.8'	111°45.9'	9.7'	N 13°43.5'	9.2'	58.2'
15	179°06.7'	43°30.2'	N 16°52.2'	126°14.6'	9.6'	N 13°52.7'	9.1'	58.2'
16	194°09.2'	58°30.3'	N 16°51.5'	140°43.2'	9.5'	N 14°01.9'	9.1'	58.2'
17	209°11.6'	73°30.4'	N 16°50.8'	155°11.7'	9.4'	N 14°10.9'	9.0'	58.3'
18	224°14.1'	88°30.4'	N 16°50.1'	169°40.2'	9.4'	N 14°19.9'	8.9'	58.3'
19	239°16.6'	103°30.5'	N 16°49.4'	184°08.6'	9.3'	N 14°28.8'	8.8'	58.4'
20	254°19.0'	118°30.6'	N 16°48.7'	198°36.8'	9.2'	N 14°37.7'	8.8'	58.4'
21	269°21.5'	133°30.6'	N 16°48.1'	213°05.0'	9.1'	N 14°46.4'	8.7'	58.4'
22	284°24.0'	148°30.7'	N 16°47.4'	227°33.1'	9.0'	N 14°55.1'	8.6'	58.5'
23	299°26.4'	163°30.8'	N 16°46.7'	242°01.1'	8.9'	N 15°03.8'	8.5'	58.5'

Mon Aug 6, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.7' SD = 15.8'		SD = 16.1'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	314°28.9'	178°30.8'	N 16°46.0'	256°29.0'	8.8'	N 15°12.3'	8.5'	58.5'
1	329°31.3'	193°30.9'	N 16°45.3'	270°56.8'	8.7'	N 15°20.8'	8.4'	58.6'
2	344°33.8'	208°31.0'	N 16°44.6'	285°24.5'	8.6'	N 15°29.2'	8.3'	58.6'
3	359°36.3'	223°31.0'	N 16°44.0'	299°52.2'	8.5'	N 15°37.5'	8.2'	58.6'
4	14°38.7'	238°31.1'	N 16°43.3'	314°19.7'	8.5'	N 15°45.7'	8.1'	58.7'
5	29°41.2'	253°31.2'	N 16°42.6'	328°47.2'	8.4'	N 15°53.9'	8.1'	58.7'
6	44°43.7'	268°31.2'	N 16°41.9'	343°14.5'	8.3'	N 16°01.9'	8.0'	58.8'
7	59°46.1'	283°31.3'	N 16°41.2'	357°41.8'	8.2'	N 16°09.9'	7.9'	58.8'
8	74°48.6'	298°31.4'	N 16°40.5'	12°09.0'	8.1'	N 16°17.8'	7.8'	58.8'
9	89°51.1'	313°31.4'	N 16°39.8'	26°36.1'	8.0'	N 16°25.6'	7.7'	58.9'
10	104°53.5'	328°31.5'	N 16°39.1'	41°03.1'	7.9'	N 16°33.3'	7.6'	58.9'
11	119°56.0'	343°31.6'	N 16°38.5'	55°30.0'	7.8'	N 16°41.0'	7.5'	58.9'
12	134°58.5'	358°31.6'	N 16°37.8'	69°56.8'	7.7'	N 16°48.5'	7.4'	59.0'
13	150°00.9'	13°31.7'	N 16°37.1'	84°23.5'	7.6'	N 16°55.9'	7.3'	59.0'
14	165°03.4'	28°31.8'	N 16°36.4'	98°50.1'	7.5'	N 17°03.3'	7.3'	59.0'
15	180°05.8'	43°31.9'	N 16°35.7'	113°16.7'	7.4'	N 17°10.5'	7.2'	59.1'
16	195°08.3'	58°31.9'	N 16°35.0'	127°43.1'	7.3'	N 17°17.7'	7.1'	59.1'
17	210°10.8'	73°32.0'	N 16°34.3'	142°09.4'	7.3'	N 17°24.7'	7.0'	59.1'
18	225°13.2'	88°32.1'	N 16°33.6'	156°35.7'	7.2'	N 17°31.7'	6.9'	59.2'
19	240°15.7'	103°32.1'	N 16°32.9'	171°01.9'	7.1'	N 17°38.5'	6.8'	59.2'
20	255°18.2'	118°32.2'	N 16°32.2'	185°27.9'	7.0'	N 17°45.3'	6.6'	59.3'
21	270°20.6'	133°32.3'	N 16°31.5'	199°53.9'	6.9'	N 17°51.9'	6.5'	59.3'
22	285°23.1'	148°32.4'	N 16°30.8'	214°19.8'	6.8'	N 17°58.5'	6.4'	59.3'
23	300°25.6'	163°32.4'	N 16°30.1'	228°45.6'	6.7'	N 18°04.9'	6.3'	59.4'

Tue Aug 7, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.7' SD = 15.8'		SD = 16.3'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	315°28.0'	178°32.5'	N 16°29.4'	243°11.3'	6.6'	N 18°11.3'	6.2'	59.4'
1	330°30.5'	193°32.6'	N 16°28.7'	257°37.0'	6.5'	N 18°17.5'	6.1'	59.4'
2	345°32.9'	208°32.7'	N 16°28.1'	272°02.5'	6.4'	N 18°23.6'	6.0'	59.5'
3	0°35.4'	223°32.7'	N 16°27.4'	286°27.9'	6.4'	N 18°29.6'	5.9'	59.5'
4	15°37.9'	238°32.8'	N 16°26.7'	300°53.3'	6.3'	N 18°35.5'	5.8'	59.5'
5	30°40.3'	253°32.9'	N 16°26.0'	315°18.6'	6.2'	N 18°41.2'	5.7'	59.6'
6	45°42.8'	268°33.0'	N 16°25.3'	329°43.8'	6.1'	N 18°46.9'	5.5'	59.6'
7	60°45.3'	283°33.0'	N 16°24.6'	344°08.9'	6.0'	N 18°52.4'	5.4'	59.6'
8	75°47.7'	298°33.1'	N 16°23.9'	358°33.9'	5.9'	N 18°57.8'	5.3'	59.7'
9	90°50.2'	313°33.2'	N 16°23.2'	12°58.8'	5.8'	N 19°03.1'	5.2'	59.7'
10	105°52.7'	328°33.3'	N 16°22.5'	27°23.6'	5.8'	N 19°08.3'	5.1'	59.7'
11	120°55.1'	343°33.3'	N 16°21.8'	41°48.4'	5.7'	N 19°13.4'	4.9'	59.8'
12	135°57.6'	358°33.4'	N 16°21.1'	56°13.1'	5.6'	N 19°18.3'	4.8'	59.8'
13	151°00.1'	13°33.5'	N 16°20.4'	70°37.7'	5.5'	N 19°23.1'	4.7'	59.8'
14	166°02.5'	28°33.6'	N 16°19.7'	85°02.2'	5.4'	N 19°27.8'	4.6'	59.9'
15	181°05.0'	43°33.6'	N 16°19.0'	99°26.6'	5.4'	N 19°32.4'	4.4'	59.9'
16	196°07.4'	58°33.7'	N 16°18.2'	113°51.0'	5.3'	N 19°36.8'	4.3'	59.9'
17	211°09.9'	73°33.8'	N 16°17.5'	128°15.3'	5.2'	N 19°41.1'	4.2'	60.0'
18	226°12.4'	88°33.9'	N 16°16.8'	142°39.5'	5.1'	N 19°45.3'	4.0'	60.0'
19	241°14.8'	103°33.9'	N 16°16.1'	157°03.6'	5.1'	N 19°49.3'	3.9'	60.0'
20	256°17.3'	118°34.0'	N 16°15.4'	171°27.7'	5.0'	N 19°53.2'	3.8'	60.0'
21	271°19.8'	133°34.1'	N 16°14.7'	185°51.6'	4.9'	N 19°57.0'	3.6'	60.1'
22	286°22.2'	148°34.2'	N 16°14.0'	200°15.6'	4.8'	N 20°00.6'	3.5'	60.1'
23	301°24.7'	163°34.3'	N 16°13.3'	214°39.4'	4.8'	N 20°04.1'	3.4'	60.1'

Wed Aug 8, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.7' SD = 15.8'		SD = 16.5'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	316°27.2'	178°34.3'	N 16°12.6'	229°03.2'	4.7'	N 20°07.5'	3.2'	60.2'
1	331°29.6'	193°34.4'	N 16°11.9'	243°26.9'	4.6'	N 20°10.7'	3.1'	60.2'
2	346°32.1'	208°34.5'	N 16°11.2'	257°50.5'	4.6'	N 20°13.8'	3.0'	60.2'
3	1°34.6'	223°34.6'	N 16°10.5'	272°14.1'	4.5'	N 20°16.8'	2.8'	60.3'
4	16°37.0'	238°34.7'	N 16°09.8'	286°37.6'	4.4'	N 20°19.6'	2.7'	60.3'
5	31°39.5'	253°34.7'	N 16°09.1'	301°01.0'	4.4'	N 20°22.3'	2.5'	60.3'
6	46°41.9'	268°34.8'	N 16°08.4'	315°24.4'	4.3'	N 20°24.8'	2.4'	60.3'
7	61°44.4'	283°34.9'	N 16°07.6'	329°47.7'	4.3'	N 20°27.2'	2.2'	60.4'
8	76°46.9'	298°35.0'	N 16°06.9'	344°11.0'	4.2'	N 20°29.4'	2.1'	60.4'
9	91°49.3'	313°35.1'	N 16°06.2'	358°34.2'	4.1'	N 20°31.5'	2.0'	60.4'
10	106°51.8'	328°35.1'	N 16°05.5'	12°57.3'	4.1'	N 20°33.5'	1.8'	60.4'
11	121°54.3'	343°35.2'	N 16°04.8'	27°20.4'	4.0'	N 20°35.3'	1.7'	60.5'
12	136°56.7'	358°35.3'	N 16°04.1'	41°43.4'	4.0'	N 20°36.9'	1.5'	60.5'
13	151°59.2'	13°35.4'	N 16°03.4'	56°06.4'	3.9'	N 20°38.4'	1.4'	60.5'
14	167°01.7'	28°35.5'	N 16°02.7'	70°29.4'	3.9'	N 20°39.8'	1.2'	60.6'
15	182°04.1'	43°35.6'	N 16°02.0'	84°52.3'	3.9'	N 20°41.0'	1.1'	60.6'
16	197°06.6'	58°35.6'	N 16°01.2'	99°15.1'	3.8'	N 20°42.1'	0.9'	60.6'
17	212°09.1'	73°35.7'	N 16°00.5'	113°37.9'	3.8'	N 20°43.0'	0.8'	60.6'
18	227°11.5'	88°35.8'	N 15°59.8'	128°00.7'	3.7'	N 20°43.8'	0.6'	60.6'
19	242°14.0'	103°35.9'	N 15°59.1'	142°23.4'	3.7'	N 20°44.4'	0.5'	60.7'
20	257°16.4'	118°36.0'	N 15°58.4'	156°46.1'	3.7'	N 20°44.8'	0.3'	60.7'
21	272°18.9'	133°36.1'	N 15°57.7'	171°08.8'	3.6'	N 20°45.1'	0.2'	60.7'
22	287°21.4'	148°36.1'	N 15°56.9'	185°31.4'	3.6'	N 20°45.3'	0.0'	60.7'
23	302°23.8'	163°36.2'	N 15°56.2'	199°54.0'	3.6'	N 20°45.3'	0.2'	60.8'

Thu Aug 9, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.7' SD = 15.8'		SD = 16.6'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	317°26.3'	178°36.3'	N 15°55.5'	214°16.5'	3.5'	N 20°45.1'	0.3'	60.8'
1	332°28.8'	193°36.4'	N 15°54.8'	228°39.0'	3.5'	N 20°44.8'	0.5'	60.8'
2	347°31.2'	208°36.5'	N 15°54.1'	243°01.5'	3.5'	N 20°44.4'	0.6'	60.8'
3	2°33.7'	223°36.6'	N 15°53.4'	257°24.0'	3.5'	N 20°43.8'	0.8'	60.8'
4	17°36.2'	238°36.7'	N 15°52.6'	271°46.5'	3.4'	N 20°43.0'	0.9'	60.9'
5	32°38.6'	253°36.7'	N 15°51.9'	286°08.9'	3.4'	N 20°42.1'	1.1'	60.9'
6	47°41.1'	268°36.8'	N 15°51.2'	300°31.3'	3.4'	N 20°41.0'	1.2'	60.9'
7	62°43.6'	283°36.9'	N 15°50.5'	314°53.7'	3.4'	N 20°39.7'	1.4'	60.9'
8	77°46.0'	298°37.0'	N 15°49.8'	329°16.1'	3.4'	N 20°38.4'	1.5'	60.9'
9	92°48.5'	313°37.1'	N 15°49.0'	343°38.4'	3.4'	N 20°36.8'	1.7'	61.0'
10	107°50.9'	328°37.2'	N 15°48.3'	358°00.8'	3.3'	N 20°35.1'	1.9'	61.0'
11	122°53.4'	343°37.3'	N 15°47.6'	12°23.1'	3.3'	N 20°33.3'	2.0'	61.0'
12	137°55.9'	358°37.4'	N 15°46.9'	26°45.5'	3.3'	N 20°31.2'	2.2'	61.0'
13	152°58.3'	13°37.4'	N 15°46.1'	41°07.8'	3.3'	N 20°29.1'	2.3'	61.0'
14	168°00.8'	28°37.5'	N 15°45.4'	55°30.1'	3.3'	N 20°26.8'	2.5'	61.0'
15	183°03.3'	43°37.6'	N 15°44.7'	69°52.5'	3.3'	N 20°24.3'	2.6'	61.0'
16	198°05.7'	58°37.7'	N 15°44.0'	84°14.8'	3.3'	N 20°21.6'	2.8'	61.1'
17	213°08.2'	73°37.8'	N 15°43.2'	98°37.1'	3.3'	N 20°18.9'	2.9'	61.1'
18	228°10.7'	88°37.9'	N 15°42.5'	112°59.5'	3.3'	N 20°15.9'	3.1'	61.1'
19	243°13.1'	103°38.0'	N 15°41.8'	127°21.8'	3.4'	N 20°12.8'	3.2'	61.1'
20	258°15.6'	118°38.1'	N 15°41.1'	141°44.2'	3.4'	N 20°09.6'	3.4'	61.1'
21	273°18.0'	133°38.2'	N 15°40.3'	156°06.5'	3.4'	N 20°06.2'	3.6'	61.1'
22	288°20.5'	148°38.2'	N 15°39.6'	170°28.9'	3.4'	N 20°02.6'	3.7'	61.1'
23	303°23.0'	163°38.3'	N 15°38.9'	184°51.3'	3.4'	N 19°58.9'	3.9'	61.1'

Fri Aug 10, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.7' SD = 15.8'		SD = 16.7'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	318°25.4'	178°38.4'	N 15°38.2'	199°13.7'	3.4'	N 19°55.1'	4.0'	61.2'
1	333°27.9'	193°38.5'	N 15°37.4'	213°36.1'	3.4'	N 19°51.1'	4.2'	61.2'
2	348°30.4'	208°38.6'	N 15°36.7'	227°58.6'	3.5'	N 19°46.9'	4.3'	61.2'
3	3°32.8'	223°38.7'	N 15°36.0'	242°21.0'	3.5'	N 19°42.6'	4.5'	61.2'
4	18°35.3'	238°38.8'	N 15°35.2'	256°43.5'	3.5'	N 19°38.2'	4.6'	61.2'
5	33°37.8'	253°38.9'	N 15°34.5'	271°06.1'	3.5'	N 19°33.5'	4.8'	61.2'
6	48°40.2'	268°39.0'	N 15°33.8'	285°28.6'	3.6'	N 19°28.8'	4.9'	61.2'
7	63°42.7'	283°39.1'	N 15°33.1'	299°51.2'	3.6'	N 19°23.9'	5.0'	61.2'
8	78°45.2'	298°39.2'	N 15°32.3'	314°13.8'	3.6'	N 19°18.9'	5.2'	61.2'
9	93°47.6'	313°39.3'	N 15°31.6'	328°36.4'	3.7'	N 19°13.7'	5.3'	61.2'
10	108°50.1'	328°39.4'	N 15°30.9'	342°59.1'	3.7'	N 19°08.3'	5.5'	61.2'
11	123°52.5'	343°39.4'	N 15°30.1'	357°21.8'	3.7'	N 19°02.9'	5.6'	61.2'
12	138°55.0'	358°39.5'	N 15°29.4'	11°44.6'	3.8'	N 18°57.2'	5.8'	61.2'
13	153°57.5'	13°39.6'	N 15°28.7'	26°07.3'	3.8'	N 18°51.5'	5.9'	61.2'
14	168°59.9'	28°39.7'	N 15°27.9'	40°30.2'	3.9'	N 18°45.6'	6.0'	61.2'
15	184°02.4'	43°39.8'	N 15°27.2'	54°53.1'	3.9'	N 18°39.5'	6.2'	61.2'
16	199°04.9'	58°39.9'	N 15°26.5'	69°16.0'	4.0'	N 18°33.3'	6.3'	61.2'
17	214°07.3'	73°40.0'	N 15°25.7'	83°38.9'	4.0'	N 18°27.0'	6.5'	61.2'
18	229°09.8'	88°40.1'	N 15°25.0'	98°01.9'	4.1'	N 18°20.6'	6.6'	61.2'
19	244°12.3'	103°40.2'	N 15°24.2'	112°25.0'	4.1'	N 18°14.0'	6.7'	61.2'
20	259°14.7'	118°40.3'	N 15°23.5'	126°48.1'	4.2'	N 18°07.3'	6.9'	61.2'
21	274°17.2'	133°40.4'	N 15°22.8'	141°11.3'	4.2'	N 18°00.4'	7.0'	61.2'
22	289°19.7'	148°40.5'	N 15°22.0'	155°34.5'	4.3'	N 17°53.4'	7.1'	61.2'
23	304°22.1'	163°40.6'	N 15°21.3'	169°57.7'	4.3'	N 17°46.3'	7.2'	61.2'

Sat Aug 11, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.7' SD = 15.8'		SD = 16.7'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	319°24.6'	178°40.7'	N 15°20.6'	184°21.1'	4.4'	N 17°39.0'	7.4'	61.2'
1	334°27.0'	193°40.8'	N 15°19.8'	198°44.4'	4.4'	N 17°31.7'	7.5'	61.2'
2	349°29.5'	208°40.9'	N 15°19.1'	213°07.9'	4.5'	N 17°24.2'	7.6'	61.2'
3	4°32.0'	223°41.0'	N 15°18.3'	227°31.4'	4.6'	N 17°16.5'	7.8'	61.2'
4	19°34.4'	238°41.1'	N 15°17.6'	241°54.9'	4.6'	N 17°08.8'	7.9'	61.2'
5	34°36.9'	253°41.2'	N 15°16.9'	256°18.6'	4.7'	N 17°00.9'	8.0'	61.2'
6	49°39.4'	268°41.3'	N 15°16.1'	270°42.2'	4.7'	N 16°52.9'	8.1'	61.2'
7	64°41.8'	283°41.4'	N 15°15.4'	285°06.0'	4.8'	N 16°44.8'	8.2'	61.2'
8	79°44.3'	298°41.5'	N 15°14.6'	299°29.8'	4.9'	N 16°36.5'	8.4'	61.2'
9	94°46.8'	313°41.6'	N 15°13.9'	313°53.7'	4.9'	N 16°28.2'	8.5'	61.2'
10	109°49.2'	328°41.7'	N 15°13.1'	328°17.6'	5.0'	N 16°19.7'	8.6'	61.2'
11	124°51.7'	343°41.8'	N 15°12.4'	342°41.6'	5.1'	N 16°11.1'	8.7'	61.1'
12	139°54.2'	358°41.9'	N 15°11.7'	357°05.7'	5.1'	N 16°02.5'	8.8'	61.1'
13	154°56.6'	13°42.0'	N 15°10.9'	11°29.8'	5.2'	N 15°53.7'	8.9'	61.1'
14	169°59.1'	28°42.1'	N 15°10.2'	25°54.0'	5.3'	N 15°44.7'	9.0'	61.1'
15	185°01.5'	43°42.2'	N 15°09.4'	40°18.3'	5.4'	N 15°35.7'	9.1'	61.1'
16	200°04.0'	58°42.3'	N 15°08.7'	54°42.7'	5.4'	N 15°26.6'	9.2'	61.1'
17	215°06.5'	73°42.4'	N 15°07.9'	69°07.1'	5.5'	N 15°17.4'	9.3'	61.1'
18	230°08.9'	88°42.5'	N 15°07.2'	83°31.6'	5.6'	N 15°08.0'	9.4'	61.1'
19	245°11.4'	103°42.6'	N 15°06.4'	97°56.2'	5.6'	N 14°58.6'	9.5'	61.0'
20	260°13.9'	118°42.7'	N 15°05.7'	112°20.8'	5.7'	N 14°49.0'	9.6'	61.0'
21	275°16.3'	133°42.8'	N 15°05.0'	126°45.5'	5.8'	N 14°39.4'	9.7'	61.0'
22	290°18.8'	148°42.9'	N 15°04.2'	141°10.3'	5.9'	N 14°29.7'	9.8'	61.0'
23	305°21.3'	163°43.0'	N 15°03.5'	155°35.2'	5.9'	N 14°19.9'	9.9'	61.0'

Sun Aug 12, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.8' SD = 15.8'		SD = 16.6'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	320°23.7'	178°43.1'	N 15°02.7'	170°00.1'	6.0'	N 14°09.9'	10.0'	61.0'
1	335°26.2'	193°43.2'	N 15°02.0'	184°25.2'	6.1'	N 13°59.9'	10.1'	61.0'
2	350°28.6'	208°43.3'	N 15°01.2'	198°50.3'	6.2'	N 13°49.8'	10.2'	60.9'
3	5°31.1'	223°43.4'	N 15°00.5'	213°15.4'	6.2'	N 13°39.6'	10.3'	60.9'
4	20°33.6'	238°43.5'	N 14°59.7'	227°40.7'	6.3'	N 13°29.4'	10.4'	60.9'
5	35°36.0'	253°43.6'	N 14°59.0'	242°06.0'	6.4'	N 13°19.0'	10.4'	60.9'
6	50°38.5'	268°43.7'	N 14°58.2'	256°31.4'	6.5'	N 13°08.6'	10.5'	60.9'
7	65°41.0'	283°43.8'	N 14°57.5'	270°56.9'	6.6'	N 12°58.0'	10.6'	60.8'
8	80°43.4'	298°43.9'	N 14°56.7'	285°22.4'	6.6'	N 12°47.4'	10.7'	60.8'
9	95°45.9'	313°44.0'	N 14°56.0'	299°48.1'	6.7'	N 12°36.7'	10.8'	60.8'
10	110°48.4'	328°44.1'	N 14°55.2'	314°13.8'	6.8'	N 12°26.0'	10.8'	60.8'
11	125°50.8'	343°44.2'	N 14°54.4'	328°39.6'	6.9'	N 12°15.2'	10.9'	60.8'
12	140°53.3'	358°44.3'	N 14°53.7'	343°05.5'	6.9'	N 12°04.3'	11.0'	60.7'
13	155°55.8'	13°44.4'	N 14°52.9'	357°31.4'	7.0'	N 11°53.3'	11.0'	60.7'
14	170°58.2'	28°44.6'	N 14°52.2'	11°57.4'	7.1'	N 11°42.2'	11.1'	60.7'
15	186°00.7'	43°44.7'	N 14°51.4'	26°23.5'	7.2'	N 11°31.1'	11.2'	60.7'
16	201°03.1'	58°44.8'	N 14°50.7'	40°49.7'	7.3'	N 11°19.9'	11.2'	60.6'
17	216°05.6'	73°44.9'	N 14°49.9'	55°16.0'	7.3'	N 11°08.7'	11.3'	60.6'
18	231°08.1'	88°45.0'	N 14°49.2'	69°42.3'	7.4'	N 10°57.4'	11.4'	60.6'
19	246°10.5'	103°45.1'	N 14°48.4'	84°08.7'	7.5'	N 10°46.0'	11.4'	60.6'
20	261°13.0'	118°45.2'	N 14°47.7'	98°35.2'	7.6'	N 10°34.6'	11.5'	60.5'
21	276°15.5'	133°45.3'	N 14°46.9'	113°01.8'	7.6'	N 10°23.1'	11.5'	60.5'
22	291°17.9'	148°45.4'	N 14°46.1'	127°28.4'	7.7'	N 10°11.6'	11.6'	60.5'
23	306°20.4'	163°45.5'	N 14°45.4'	141°55.2'	7.8'	N 9°60.0'	11.6'	60.5'

Mon Aug 13, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.8' SD = 15.8'		SD = 16.4'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	321°22.9'	178°45.6'	N 14°44.6'	156°22.0'	7.9'	N 9°48.3'	11.7'	60.4'
1	336°25.3'	193°45.7'	N 14°43.9'	170°48.8'	7.9'	N 9°36.6'	11.7'	60.4'
2	351°27.8'	208°45.8'	N 14°43.1'	185°15.8'	8.0'	N 9°24.9'	11.8'	60.4'
3	6°30.3'	223°46.0'	N 14°42.3'	199°42.8'	8.1'	N 9°13.1'	11.8'	60.3'
4	21°32.7'	238°46.1'	N 14°41.6'	214°09.9'	8.2'	N 9°01.2'	11.9'	60.3'
5	36°35.2'	253°46.2'	N 14°40.8'	228°37.1'	8.2'	N 8°49.3'	11.9'	60.3'
6	51°37.6'	268°46.3'	N 14°40.1'	243°04.3'	8.3'	N 8°37.4'	12.0'	60.2'
7	66°40.1'	283°46.4'	N 14°39.3'	257°31.6'	8.4'	N 8°25.5'	12.0'	60.2'
8	81°42.6'	298°46.5'	N 14°38.5'	271°59.0'	8.5'	N 8°13.4'	12.0'	60.2'
9	96°45.0'	313°46.6'	N 14°37.8'	286°26.5'	8.5'	N 8°01.4'	12.1'	60.2'
10	111°47.5'	328°46.7'	N 14°37.0'	300°54.1'	8.6'	N 7°49.3'	12.1'	60.1'
11	126°50.0'	343°46.8'	N 14°36.3'	315°21.7'	8.7'	N 7°37.2'	12.2'	60.1'
12	141°52.4'	358°47.0'	N 14°35.5'	329°49.4'	8.8'	N 7°25.0'	12.2'	60.1'
13	156°54.9'	13°47.1'	N 14°34.7'	344°17.1'	8.8'	N 7°12.9'	12.2'	60.0'
14	171°57.4'	28°47.2'	N 14°34.0'	358°44.9'	8.9'	N 7°00.7'	12.2'	60.0'
15	186°59.8'	43°47.3'	N 14°33.2'	13°12.8'	9.0'	N 6°48.4'	12.3'	60.0'
16	202°02.3'	58°47.4'	N 14°32.4'	27°40.8'	9.0'	N 6°36.1'	12.3'	59.9'
17	217°04.7'	73°47.5'	N 14°31.7'	42°08.8'	9.1'	N 6°23.9'	12.3'	59.9'
18	232°07.2'	88°47.6'	N 14°30.9'	56°36.9'	9.2'	N 6°11.5'	12.3'	59.9'
19	247°09.7'	103°47.7'	N 14°30.1'	71°05.1'	9.2'	N 5°59.2'	12.4'	59.8'
20	262°12.1'	118°47.9'	N 14°29.4'	85°33.3'	9.3'	N 5°46.8'	12.4'	59.8'
21	277°14.6'	133°48.0'	N 14°28.6'	100°01.6'	9.4'	N 5°34.5'	12.4'	59.8'
22	292°17.1'	148°48.1'	N 14°27.8'	114°30.0'	9.4'	N 5°22.1'	12.4'	59.7'
23	307°19.5'	163°48.2'	N 14°27.1'	128°58.4'	9.5'	N 5°09.7'	12.4'	59.7'

Tue Aug 14, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.8' SD = 15.8'		SD = 16.2'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	322°22.0'	178°48.3'	N 14°26.3'	143°26.9'	9.6'	N 4°57.2'	12.4'	59.7'
1	337°24.5'	193°48.4'	N 14°25.5'	157°55.5'	9.6'	N 4°44.8'	12.5'	59.6'
2	352°26.9'	208°48.5'	N 14°24.8'	172°24.1'	9.7'	N 4°32.3'	12.5'	59.6'
3	7°29.4'	223°48.7'	N 14°24.0'	186°52.8'	9.7'	N 4°19.9'	12.5'	59.5'
4	22°31.9'	238°48.8'	N 14°23.2'	201°21.6'	9.8'	N 4°07.4'	12.5'	59.5'
5	37°34.3'	253°48.9'	N 14°22.5'	215°50.4'	9.9'	N 3°54.9'	12.5'	59.5'
6	52°36.8'	268°49.0'	N 14°21.7'	230°19.2'	9.9'	N 3°42.4'	12.5'	59.4'
7	67°39.2'	283°49.1'	N 14°20.9'	244°48.2'	10.0'	N 3°30.0'	12.5'	59.4'
8	82°41.7'	298°49.2'	N 14°20.1'	259°17.2'	10.0'	N 3°17.5'	12.5'	59.4'
9	97°44.2'	313°49.4'	N 14°19.4'	273°46.2'	10.1'	N 3°05.0'	12.5'	59.3'
10	112°46.6'	328°49.5'	N 14°18.6'	288°15.3'	10.2'	N 2°52.5'	12.5'	59.3'
11	127°49.1'	343°49.6'	N 14°17.8'	302°44.5'	10.2'	N 2°40.0'	12.5'	59.3'
12	142°51.6'	358°49.7'	N 14°17.0'	317°13.7'	10.3'	N 2°27.5'	12.5'	59.2'
13	157°54.0'	13°49.8'	N 14°16.3'	331°43.0'	10.3'	N 2°15.0'	12.5'	59.2'
14	172°56.5'	28°49.9'	N 14°15.5'	346°12.3'	10.4'	N 2°02.5'	12.5'	59.1'
15	187°59.0'	43°50.1'	N 14°14.7'	0°41.7'	10.4'	N 1°50.0'	12.5'	59.1'
16	203°01.4'	58°50.2'	N 14°14.0'	15°11.1'	10.5'	N 1°37.5'	12.5'	59.1'
17	218°03.9'	73°50.3'	N 14°13.2'	29°40.6'	10.5'	N 1°25.1'	12.5'	59.0'
18	233°06.3'	88°50.4'	N 14°12.4'	44°10.1'	10.6'	N 1°12.6'	12.4'	59.0'
19	248°08.8'	103°50.5'	N 14°11.6'	58°39.7'	10.6'	N 1°00.2'	12.4'	58.9'
20	263°11.3'	118°50.7'	N 14°10.9'	73°09.3'	10.7'	N 0°47.7'	12.4'	58.9'
21	278°13.7'	133°50.8'	N 14°10.1'	87°39.0'	10.7'	N 0°35.3'	12.4'	58.9'
22	293°16.2'	148°50.9'	N 14°09.3'	102°08.7'	10.8'	N 0°22.9'	12.4'	58.8'
23	308°18.7'	163°51.0'	N 14°08.5'	116°38.5'	10.8'	N 0°10.5'	12.4'	58.8'

Wed Aug 15, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.8' SD = 15.8'		SD = 15.9'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	323°21.1'	178°51.1'	N 14°07.7'	131°08.4'	10.9'	S 0°01.9'	12.4'	58.8'
1	338°23.6'	193°51.3'	N 14°07.0'	145°38.2'	10.9'	S 0°14.2'	12.3'	58.7'
2	353°26.1'	208°51.4'	N 14°06.2'	160°08.1'	11.0'	S 0°26.6'	12.3'	58.7'
3	8°28.5'	223°51.5'	N 14°05.4'	174°38.1'	11.0'	S 0°38.9'	12.3'	58.6'
4	23°31.0'	238°51.6'	N 14°04.6'	189°08.1'	11.0'	S 0°51.2'	12.3'	58.6'
5	38°33.5'	253°51.7'	N 14°03.9'	203°38.1'	11.1'	S 1°03.5'	12.3'	58.6'
6	53°35.9'	268°51.9'	N 14°03.1'	218°08.2'	11.1'	S 1°15.8'	12.2'	58.5'
7	68°38.4'	283°52.0'	N 14°02.3'	232°38.4'	11.2'	S 1°28.0'	12.2'	58.5'
8	83°40.8'	298°52.1'	N 14°01.5'	247°08.5'	11.2'	S 1°40.2'	12.2'	58.4'
9	98°43.3'	313°52.2'	N 14°00.7'	261°38.7'	11.2'	S 1°52.4'	12.2'	58.4'
10	113°45.8'	328°52.4'	N 13°59.9'	276°09.0'	11.3'	S 2°04.5'	12.1'	58.4'
11	128°48.2'	343°52.5'	N 13°59.2'	290°39.3'	11.3'	S 2°16.7'	12.1'	58.3'
12	143°50.7'	358°52.6'	N 13°58.4'	305°09.6'	11.4'	S 2°28.8'	12.1'	58.3'
13	158°53.2'	13°52.7'	N 13°57.6'	319°39.9'	11.4'	S 2°40.8'	12.0'	58.2'
14	173°55.6'	28°52.8'	N 13°56.8'	334°10.3'	11.4'	S 2°52.9'	12.0'	58.2'
15	188°58.1'	43°53.0'	N 13°56.0'	348°40.8'	11.5'	S 3°04.9'	12.0'	58.2'
16	204°00.6'	58°53.1'	N 13°55.3'	3°11.2'	11.5'	S 3°16.8'	11.9'	58.1'
17	219°03.0'	73°53.2'	N 13°54.5'	17°41.7'	11.5'	S 3°28.8'	11.9'	58.1'
18	234°05.5'	88°53.3'	N 13°53.7'	32°12.2'	11.6'	S 3°40.7'	11.9'	58.0'
19	249°07.9'	103°53.5'	N 13°52.9'	46°42.8'	11.6'	S 3°52.5'	11.8'	58.0'
20	264°10.4'	118°53.6'	N 13°52.1'	61°13.4'	11.6'	S 4°04.4'	11.8'	58.0'
21	279°12.9'	133°53.7'	N 13°51.3'	75°44.0'	11.6'	S 4°16.2'	11.8'	57.9'
22	294°15.3'	148°53.8'	N 13°50.5'	90°14.7'	11.7'	S 4°27.9'	11.7'	57.9'
23	309°17.8'	163°54.0'	N 13°49.8'	104°45.3'	11.7'	S 4°39.6'	11.7'	57.8'

Thu Aug 16, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.8' SD = 15.8'		SD = 15.7'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	324°20.3'	178°54.1'	N 13°49.0'	119°16.0'	11.7'	S 4°51.3'	11.6'	57.8'
1	339°22.7'	193°54.2'	N 13°48.2'	133°46.8'	11.8'	S 5°02.9'	11.6'	57.8'
2	354°25.2'	208°54.3'	N 13°47.4'	148°17.5'	11.8'	S 5°14.5'	11.5'	57.7'
3	9°27.7'	223°54.5'	N 13°46.6'	162°48.3'	11.8'	S 5°26.1'	11.5'	57.7'
4	24°30.1'	238°54.6'	N 13°45.8'	177°19.1'	11.8'	S 5°37.6'	11.5'	57.6'
5	39°32.6'	253°54.7'	N 13°45.0'	191°49.9'	11.9'	S 5°49.0'	11.4'	57.6'
6	54°35.1'	268°54.9'	N 13°44.2'	206°20.8'	11.9'	S 6°00.4'	11.4'	57.6'
7	69°37.5'	283°55.0'	N 13°43.5'	220°51.7'	11.9'	S 6°11.8'	11.3'	57.5'
8	84°40.0'	298°55.1'	N 13°42.7'	235°22.6'	11.9'	S 6°23.1'	11.3'	57.5'
9	99°42.4'	313°55.2'	N 13°41.9'	249°53.5'	11.9'	S 6°34.4'	11.2'	57.5'
10	114°44.9'	328°55.4'	N 13°41.1'	264°24.4'	12.0'	S 6°45.6'	11.2'	57.4'
11	129°47.4'	343°55.5'	N 13°40.3'	278°55.4'	12.0'	S 6°56.8'	11.1'	57.4'
12	144°49.8'	358°55.6'	N 13°39.5'	293°26.4'	12.0'	S 7°07.9'	11.1'	57.3'
13	159°52.3'	13°55.8'	N 13°38.7'	307°57.4'	12.0'	S 7°19.0'	11.0'	57.3'
14	174°54.8'	28°55.9'	N 13°37.9'	322°28.4'	12.0'	S 7°30.0'	11.0'	57.3'
15	189°57.2'	43°56.0'	N 13°37.1'	336°59.4'	12.0'	S 7°41.0'	10.9'	57.2'
16	204°59.7'	58°56.1'	N 13°36.3'	351°30.5'	12.1'	S 7°51.9'	10.9'	57.2'
17	220°02.2'	73°56.3'	N 13°35.5'	6°01.5'	12.1'	S 8°02.8'	10.8'	57.1'
18	235°04.6'	88°56.4'	N 13°34.7'	20°32.6'	12.1'	S 8°13.6'	10.8'	57.1'
19	250°07.1'	103°56.5'	N 13°33.9'	35°03.7'	12.1'	S 8°24.3'	10.7'	57.1'
20	265°09.6'	118°56.7'	N 13°33.2'	49°34.8'	12.1'	S 8°35.0'	10.6'	57.0'
21	280°12.0'	133°56.8'	N 13°32.4'	64°05.9'	12.1'	S 8°45.7'	10.6'	57.0'
22	295°14.5'	148°56.9'	N 13°31.6'	78°37.1'	12.1'	S 8°56.2'	10.5'	57.0'
23	310°16.9'	163°57.1'	N 13°30.8'	93°08.2'	12.2'	S 9°06.8'	10.5'	56.9'

Fri Aug 17, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.8' SD = 15.8'		SD = 15.4'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	325°19.4'	178°57.2'	N 13°30.0'	107°39.4'	12.2'	S 9°17.2'	10.4'	56.9'
1	340°21.9'	193°57.3'	N 13°29.2'	122°10.6'	12.2'	S 9°27.6'	10.3'	56.8'
2	355°24.3'	208°57.5'	N 13°28.4'	136°41.7'	12.2'	S 9°38.0'	10.3'	56.8'
3	10°26.8'	223°57.6'	N 13°27.6'	151°12.9'	12.2'	S 9°48.3'	10.2'	56.8'
4	25°29.3'	238°57.7'	N 13°26.8'	165°44.1'	12.2'	S 9°58.5'	10.2'	56.7'
5	40°31.7'	253°57.9'	N 13°26.0'	180°15.3'	12.2'	S 10°08.6'	10.1'	56.7'
6	55°34.2'	268°58.0'	N 13°25.2'	194°46.5'	12.2'	S 10°18.7'	10.0'	56.7'
7	70°36.7'	283°58.1'	N 13°24.4'	209°17.7'	12.2'	S 10°28.8'	10.0'	56.6'
8	85°39.1'	298°58.3'	N 13°23.6'	223°49.0'	12.2'	S 10°38.8'	9.9'	56.6'
9	100°41.6'	313°58.4'	N 13°22.8'	238°20.2'	12.2'	S 10°48.7'	9.8'	56.6'
10	115°44.0'	328°58.5'	N 13°22.0'	252°51.4'	12.2'	S 10°58.5'	9.8'	56.5'
11	130°46.5'	343°58.7'	N 13°21.2'	267°22.7'	12.2'	S 11°08.3'	9.7'	56.5'
12	145°49.0'	358°58.8'	N 13°20.4'	281°53.9'	12.3'	S 11°18.0'	9.6'	56.5'
13	160°51.4'	13°58.9'	N 13°19.6'	296°25.2'	12.3'	S 11°27.7'	9.6'	56.4'
14	175°53.9'	28°59.1'	N 13°18.8'	310°56.4'	12.3'	S 11°37.2'	9.5'	56.4'
15	190°56.4'	43°59.2'	N 13°18.0'	325°27.7'	12.3'	S 11°46.7'	9.4'	56.4'
16	205°58.8'	58°59.3'	N 13°17.2'	339°59.0'	12.3'	S 11°56.2'	9.4'	56.3'
17	221°01.3'	73°59.5'	N 13°16.4'	354°30.2'	12.3'	S 12°05.6'	9.3'	56.3'
18	236°03.8'	88°59.6'	N 13°15.6'	9°01.5'	12.3'	S 12°14.9'	9.2'	56.3'
19	251°06.2'	103°59.7'	N 13°14.8'	23°32.8'	12.3'	S 12°24.1'	9.2'	56.2'
20	266°08.7'	118°59.9'	N 13°14.0'	38°04.0'	12.3'	S 12°33.3'	9.1'	56.2'
21	281°11.2'	134°00.0'	N 13°13.2'	52°35.3'	12.3'	S 12°42.4'	9.0'	56.2'
22	296°13.6'	149°00.1'	N 13°12.4'	67°06.5'	12.3'	S 12°51.4'	9.0'	56.1'
23	311°16.1'	164°00.3'	N 13°11.6'	81°37.8'	12.3'	S 13°00.3'	8.9'	56.1'

Sat Aug 18, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.8' SD = 15.8'		SD = 15.2'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	326°18.5'	179°00.4'	N 13°10.8'	96°09.1'	12.3'	S 13°09.2'	8.8'	56.1'
1	341°21.0'	194°00.6'	N 13°10.0'	110°40.3'	12.3'	S 13°18.0'	8.7'	56.0'
2	356°23.5'	209°00.7'	N 13°09.2'	125°11.6'	12.3'	S 13°26.7'	8.7'	56.0'
3	11°25.9'	224°00.8'	N 13°08.4'	139°42.9'	12.3'	S 13°35.4'	8.6'	56.0'
4	26°28.4'	239°01.0'	N 13°07.5'	154°14.1'	12.3'	S 13°44.0'	8.5'	55.9'
5	41°30.9'	254°01.1'	N 13°06.7'	168°45.4'	12.3'	S 13°52.5'	8.4'	55.9'
6	56°33.3'	269°01.2'	N 13°05.9'	183°16.6'	12.2'	S 14°00.9'	8.4'	55.9'
7	71°35.8'	284°01.4'	N 13°05.1'	197°47.9'	12.2'	S 14°09.3'	8.3'	55.8'
8	86°38.3'	299°01.5'	N 13°04.3'	212°19.1'	12.2'	S 14°17.6'	8.2'	55.8'
9	101°40.7'	314°01.7'	N 13°03.5'	226°50.4'	12.2'	S 14°25.8'	8.1'	55.8'
10	116°43.2'	329°01.8'	N 13°02.7'	241°21.6'	12.2'	S 14°33.9'	8.0'	55.8'
11	131°45.7'	344°01.9'	N 13°01.9'	255°52.8'	12.2'	S 14°41.9'	8.0'	55.7'
12	146°48.1'	359°02.1'	N 13°01.1'	270°24.0'	12.2'	S 14°49.9'	7.9'	55.7'
13	161°50.6'	14°02.2'	N 13°00.3'	284°55.3'	12.2'	S 14°57.8'	7.8'	55.7'
14	176°53.0'	29°02.4'	N 12°59.5'	299°26.5'	12.2'	S 15°05.6'	7.7'	55.6'
15	191°55.5'	44°02.5'	N 12°58.7'	313°57.7'	12.2'	S 15°13.4'	7.7'	55.6'
16	206°58.0'	59°02.6'	N 12°57.8'	328°28.9'	12.2'	S 15°21.0'	7.6'	55.6'
17	222°00.4'	74°02.8'	N 12°57.0'	343°00.1'	12.2'	S 15°28.6'	7.5'	55.6'
18	237°02.9'	89°02.9'	N 12°56.2'	357°31.3'	12.2'	S 15°36.1'	7.4'	55.5'
19	252°05.4'	104°03.1'	N 12°55.4'	12°02.4'	12.2'	S 15°43.5'	7.3'	55.5'
20	267°07.8'	119°03.2'	N 12°54.6'	26°33.6'	12.2'	S 15°50.8'	7.2'	55.5'
21	282°10.3'	134°03.3'	N 12°53.8'	41°04.8'	12.2'	S 15°58.1'	7.2'	55.4'
22	297°12.8'	149°03.5'	N 12°53.0'	55°35.9'	12.2'	S 16°05.2'	7.1'	55.4'
23	312°15.2'	164°03.6'	N 12°52.2'	70°07.1'	12.1'	S 16°12.3'	7.0'	55.4'

Sun Aug 19, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.8' SD = 15.8'		SD = 15.0'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	327°17.7'	179°03.8'	N 12°51.4'	84°38.2'	12.1'	S 16°19.3'	6.9'	55.4'
1	342°20.1'	194°03.9'	N 12°50.5'	99°09.4'	12.1'	S 16°26.2'	6.8'	55.3'
2	357°22.6'	209°04.1'	N 12°49.7'	113°40.5'	12.1'	S 16°33.1'	6.7'	55.3'
3	12°25.1'	224°04.2'	N 12°48.9'	128°11.6'	12.1'	S 16°39.8'	6.7'	55.3'
4	27°27.5'	239°04.3'	N 12°48.1'	142°42.7'	12.1'	S 16°46.5'	6.6'	55.3'
5	42°30.0'	254°04.5'	N 12°47.3'	157°13.8'	12.1'	S 16°53.1'	6.5'	55.2'
6	57°32.5'	269°04.6'	N 12°46.5'	171°44.9'	12.1'	S 16°59.6'	6.4'	55.2'
7	72°34.9'	284°04.8'	N 12°45.6'	186°16.0'	12.1'	S 17°06.0'	6.3'	55.2'
8	87°37.4'	299°04.9'	N 12°44.8'	200°47.1'	12.1'	S 17°12.3'	6.2'	55.2'
9	102°39.9'	314°05.1'	N 12°44.0'	215°18.1'	12.1'	S 17°18.5'	6.1'	55.1'
10	117°42.3'	329°05.2'	N 12°43.2'	229°49.2'	12.0'	S 17°24.7'	6.1'	55.1'
11	132°44.8'	344°05.4'	N 12°42.4'	244°20.2'	12.0'	S 17°30.7'	6.0'	55.1'
12	147°47.3'	359°05.5'	N 12°41.6'	258°51.3'	12.0'	S 17°36.7'	5.9'	55.1'
13	162°49.7'	14°05.6'	N 12°40.7'	273°22.3'	12.0'	S 17°42.6'	5.8'	55.0'
14	177°52.2'	29°05.8'	N 12°39.9'	287°53.3'	12.0'	S 17°48.4'	5.7'	55.0'
15	192°54.6'	44°05.9'	N 12°39.1'	302°24.3'	12.0'	S 17°54.1'	5.6'	55.0'
16	207°57.1'	59°06.1'	N 12°38.3'	316°55.3'	12.0'	S 17°59.7'	5.5'	55.0'
17	222°59.6'	74°06.2'	N 12°37.5'	331°26.3'	12.0'	S 18°05.3'	5.4'	55.0'
18	238°02.0'	89°06.4'	N 12°36.7'	345°57.3'	12.0'	S 18°10.7'	5.4'	54.9'
19	253°04.5'	104°06.5'	N 12°35.8'	0°28.3'	12.0'	S 18°16.1'	5.3'	54.9'
20	268°07.0'	119°06.7'	N 12°35.0'	14°59.3'	12.0'	S 18°21.3'	5.2'	54.9'
21	283°09.4'	134°06.8'	N 12°34.2'	29°30.2'	11.9'	S 18°26.5'	5.1'	54.9'
22	298°11.9'	149°07.0'	N 12°33.4'	44°01.2'	11.9'	S 18°31.6'	5.0'	54.9'
23	313°14.4'	164°07.1'	N 12°32.6'	58°32.1'	11.9'	S 18°36.6'	4.9'	54.8'

Mon Aug 20, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.8' SD = 15.8'		SD = 14.9'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	328°16.8'	179°07.3'	N 12°31.7'	73°03.0'	11.9'	S 18°41.5'	4.8'	54.8'
1	343°19.3'	194°07.4'	N 12°30.9'	87°34.0'	11.9'	S 18°46.3'	4.7'	54.8'
2	358°21.8'	209°07.6'	N 12°30.1'	102°04.9'	11.9'	S 18°51.0'	4.6'	54.8'
3	13°24.2'	224°07.7'	N 12°29.3'	116°35.8'	11.9'	S 18°55.6'	4.5'	54.8'
4	28°26.7'	239°07.9'	N 12°28.4'	131°06.7'	11.9'	S 19°00.2'	4.4'	54.7'
5	43°29.1'	254°08.0'	N 12°27.6'	145°37.6'	11.9'	S 19°04.6'	4.4'	54.7'
6	58°31.6'	269°08.2'	N 12°26.8'	160°08.4'	11.9'	S 19°09.0'	4.3'	54.7'
7	73°34.1'	284°08.3'	N 12°26.0'	174°39.3'	11.9'	S 19°13.2'	4.2'	54.7'
8	88°36.5'	299°08.5'	N 12°25.1'	189°10.2'	11.9'	S 19°17.4'	4.1'	54.7'
9	103°39.0'	314°08.6'	N 12°24.3'	203°41.0'	11.8'	S 19°21.5'	4.0'	54.6'
10	118°41.5'	329°08.8'	N 12°23.5'	218°11.9'	11.8'	S 19°25.5'	3.9'	54.6'
11	133°43.9'	344°08.9'	N 12°22.7'	232°42.7'	11.8'	S 19°29.3'	3.8'	54.6'
12	148°46.4'	359°09.1'	N 12°21.8'	247°13.5'	11.8'	S 19°33.1'	3.7'	54.6'
13	163°48.9'	14°09.2'	N 12°21.0'	261°44.4'	11.8'	S 19°36.8'	3.6'	54.6'
14	178°51.3'	29°09.4'	N 12°20.2'	276°15.2'	11.8'	S 19°40.4'	3.5'	54.6'
15	193°53.8'	44°09.5'	N 12°19.4'	290°46.0'	11.8'	S 19°43.9'	3.4'	54.5'
16	208°56.2'	59°09.7'	N 12°18.5'	305°16.8'	11.8'	S 19°47.4'	3.3'	54.5'
17	223°58.7'	74°09.8'	N 12°17.7'	319°47.6'	11.8'	S 19°50.7'	3.2'	54.5'
18	239°01.2'	89°10.0'	N 12°16.9'	334°18.4'	11.8'	S 19°53.9'	3.1'	54.5'
19	254°03.6'	104°10.1'	N 12°16.1'	348°49.2'	11.8'	S 19°57.0'	3.0'	54.5'
20	269°06.1'	119°10.3'	N 12°15.2'	3°20.0'	11.8'	S 20°00.1'	2.9'	54.5'
21	284°08.6'	134°10.4'	N 12°14.4'	17°50.7'	11.8'	S 20°03.0'	2.8'	54.5'
22	299°11.0'	149°10.6'	N 12°13.6'	32°21.5'	11.8'	S 20°05.9'	2.7'	54.4'
23	314°13.5'	164°10.7'	N 12°12.7'	46°52.3'	11.8'	S 20°08.6'	2.7'	54.4'

Tue Aug 21, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.8' SD = 15.8'		SD = 14.8'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	329°16.0'	179°10.9'	N 12°11.9'	61°23.0'	11.8'	S 20°11.3'	2.6'	54.4'
1	344°18.4'	194°11.0'	N 12°11.1'	75°53.8'	11.8'	S 20°13.8'	2.5'	54.4'
2	359°20.9'	209°11.2'	N 12°10.3'	90°24.6'	11.8'	S 20°16.3'	2.4'	54.4'
3	14°23.4'	224°11.3'	N 12°09.4'	104°55.3'	11.7'	S 20°18.7'	2.3'	54.4'
4	29°25.8'	239°11.5'	N 12°08.6'	119°26.1'	11.7'	S 20°20.9'	2.2'	54.4'
5	44°28.3'	254°11.6'	N 12°07.8'	133°56.8'	11.7'	S 20°23.1'	2.1'	54.4'
6	59°30.7'	269°11.8'	N 12°06.9'	148°27.5'	11.7'	S 20°25.2'	2.0'	54.3'
7	74°33.2'	284°11.9'	N 12°06.1'	162°58.3'	11.7'	S 20°27.2'	1.9'	54.3'
8	89°35.7'	299°12.1'	N 12°05.3'	177°29.0'	11.7'	S 20°29.0'	1.8'	54.3'
9	104°38.1'	314°12.3'	N 12°04.4'	191°59.8'	11.7'	S 20°30.8'	1.7'	54.3'
10	119°40.6'	329°12.4'	N 12°03.6'	206°30.5'	11.7'	S 20°32.5'	1.6'	54.3'
11	134°43.1'	344°12.6'	N 12°02.8'	221°01.2'	11.7'	S 20°34.1'	1.5'	54.3'
12	149°45.5'	359°12.7'	N 12°01.9'	235°32.0'	11.7'	S 20°35.6'	1.4'	54.3'
13	164°48.0'	14°12.9'	N 12°01.1'	250°02.7'	11.7'	S 20°37.0'	1.3'	54.3'
14	179°50.5'	29°13.0'	N 12°00.3'	264°33.4'	11.7'	S 20°38.3'	1.2'	54.3'
15	194°52.9'	44°13.2'	N 11°59.4'	279°04.2'	11.7'	S 20°39.5'	1.1'	54.2'
16	209°55.4'	59°13.3'	N 11°58.6'	293°34.9'	11.7'	S 20°40.6'	1.0'	54.2'
17	224°57.9'	74°13.5'	N 11°57.8'	308°05.6'	11.7'	S 20°41.6'	0.9'	54.2'
18	240°00.3'	89°13.7'	N 11°56.9'	322°36.4'	11.7'	S 20°42.5'	0.8'	54.2'
19	255°02.8'	104°13.8'	N 11°56.1'	337°07.1'	11.7'	S 20°43.4'	0.7'	54.2'
20	270°05.2'	119°14.0'	N 11°55.3'	351°37.9'	11.7'	S 20°44.1'	0.6'	54.2'
21	285°07.7'	134°14.1'	N 11°54.4'	6°08.6'	11.7'	S 20°44.7'	0.5'	54.2'
22	300°10.2'	149°14.3'	N 11°53.6'	20°39.4'	11.8'	S 20°45.2'	0.4'	54.2'
23	315°12.6'	164°14.4'	N 11°52.7'	35°10.1'	11.8'	S 20°45.7'	0.3'	54.2'

Wed Aug 22, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.8' SD = 15.8'		SD = 14.8'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	330°15.1'	179°14.6'	N 11°51.9'	49°40.9'	11.8'	S 20°46.0'	0.2'	54.2'
1	345°17.6'	194°14.8'	N 11°51.1'	64°11.6'	11.8'	S 20°46.2'	0.1'	54.2'
2	0°20.0'	209°14.9'	N 11°50.2'	78°42.4'	11.8'	S 20°46.4'	0.0'	54.2'
3	15°22.5'	224°15.1'	N 11°49.4'	93°13.2'	11.8'	S 20°46.4'	0.1'	54.1'
4	30°25.0'	239°15.2'	N 11°48.6'	107°43.9'	11.8'	S 20°46.3'	0.2'	54.1'
5	45°27.4'	254°15.4'	N 11°47.7'	122°14.7'	11.8'	S 20°46.2'	0.3'	54.1'
6	60°29.9'	269°15.6'	N 11°46.9'	136°45.5'	11.8'	S 20°45.9'	0.3'	54.1'
7	75°32.4'	284°15.7'	N 11°46.0'	151°16.3'	11.8'	S 20°45.6'	0.4'	54.1'
8	90°34.8'	299°15.9'	N 11°45.2'	165°47.1'	11.8'	S 20°45.1'	0.5'	54.1'
9	105°37.3'	314°16.0'	N 11°44.4'	180°17.9'	11.8'	S 20°44.6'	0.6'	54.1'
10	120°39.7'	329°16.2'	N 11°43.5'	194°48.7'	11.8'	S 20°44.0'	0.7'	54.1'
11	135°42.2'	344°16.4'	N 11°42.7'	209°19.6'	11.8'	S 20°43.2'	0.8'	54.1'
12	150°44.7'	359°16.5'	N 11°41.8'	223°50.4'	11.8'	S 20°42.4'	0.9'	54.1'
13	165°47.1'	14°16.7'	N 11°41.0'	238°21.3'	11.9'	S 20°41.5'	1.0'	54.1'
14	180°49.6'	29°16.8'	N 11°40.2'	252°52.1'	11.9'	S 20°40.4'	1.1'	54.1'
15	195°52.1'	44°17.0'	N 11°39.3'	267°23.0'	11.9'	S 20°39.3'	1.2'	54.1'
16	210°54.5'	59°17.2'	N 11°38.5'	281°53.9'	11.9'	S 20°38.1'	1.3'	54.1'
17	225°57.0'	74°17.3'	N 11°37.6'	296°24.7'	11.9'	S 20°36.8'	1.4'	54.1'
18	240°59.5'	89°17.5'	N 11°36.8'	310°55.6'	11.9'	S 20°35.4'	1.5'	54.1'
19	256°01.9'	104°17.6'	N 11°35.9'	325°26.5'	11.9'	S 20°33.9'	1.6'	54.1'
20	271°04.4'	119°17.8'	N 11°35.1'	339°57.5'	11.9'	S 20°32.3'	1.7'	54.1'
21	286°06.8'	134°18.0'	N 11°34.3'	354°28.4'	11.9'	S 20°30.6'	1.8'	54.1'
22	301°09.3'	149°18.1'	N 11°33.4'	8°59.3'	12.0'	S 20°28.8'	1.9'	54.1'
23	316°11.8'	164°18.3'	N 11°32.6'	23°30.3'	12.0'	S 20°26.9'	2.0'	54.1'

Thu Aug 23, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.8' SD = 15.8'		SD = 14.7'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	331°14.2'	179°18.5'	N 11°31.7'	38°01.3'	12.0'	S 20°24.9'	2.1'	54.1'
1	346°16.7'	194°18.6'	N 11°30.9'	52°32.3'	12.0'	S 20°22.9'	2.2'	54.0'
2	1°19.2'	209°18.8'	N 11°30.0'	67°03.3'	12.0'	S 20°20.7'	2.3'	54.0'
3	16°21.6'	224°18.9'	N 11°29.2'	81°34.3'	12.0'	S 20°18.4'	2.4'	54.0'
4	31°24.1'	239°19.1'	N 11°28.3'	96°05.3'	12.0'	S 20°16.1'	2.4'	54.0'
5	46°26.6'	254°19.3'	N 11°27.5'	110°36.3'	12.1'	S 20°13.6'	2.5'	54.0'
6	61°29.0'	269°19.4'	N 11°26.6'	125°07.4'	12.1'	S 20°11.1'	2.6'	54.0'
7	76°31.5'	284°19.6'	N 11°25.8'	139°38.5'	12.1'	S 20°08.5'	2.7'	54.0'
8	91°34.0'	299°19.8'	N 11°24.9'	154°09.6'	12.1'	S 20°05.7'	2.8'	54.0'
9	106°36.4'	314°19.9'	N 11°24.1'	168°40.7'	12.1'	S 20°02.9'	2.9'	54.0'
10	121°38.9'	329°20.1'	N 11°23.3'	183°11.8'	12.1'	S 20°00.0'	3.0'	54.0'
11	136°41.3'	344°20.3'	N 11°22.4'	197°43.0'	12.2'	S 19°57.0'	3.1'	54.0'
12	151°43.8'	359°20.4'	N 11°21.6'	212°14.1'	12.2'	S 19°53.9'	3.2'	54.0'
13	166°46.3'	14°20.6'	N 11°20.7'	226°45.3'	12.2'	S 19°50.7'	3.3'	54.0'
14	181°48.7'	29°20.7'	N 11°19.9'	241°16.5'	12.2'	S 19°47.5'	3.4'	54.0'
15	196°51.2'	44°20.9'	N 11°19.0'	255°47.7'	12.2'	S 19°44.1'	3.5'	54.0'
16	211°53.7'	59°21.1'	N 11°18.2'	270°19.0'	12.3'	S 19°40.6'	3.6'	54.0'
17	226°56.1'	74°21.2'	N 11°17.3'	284°50.2'	12.3'	S 19°37.1'	3.6'	54.0'
18	241°58.6'	89°21.4'	N 11°16.5'	299°21.5'	12.3'	S 19°33.4'	3.7'	54.0'
19	257°01.1'	104°21.6'	N 11°15.6'	313°52.8'	12.3'	S 19°29.7'	3.8'	54.0'
20	272°03.5'	119°21.7'	N 11°14.8'	328°24.1'	12.3'	S 19°25.9'	3.9'	54.0'
21	287°06.0'	134°21.9'	N 11°13.9'	342°55.4'	12.4'	S 19°22.0'	4.0'	54.1'
22	302°08.5'	149°22.1'	N 11°13.0'	357°26.8'	12.4'	S 19°18.0'	4.1'	54.1'
23	317°10.9'	164°22.2'	N 11°12.2'	11°58.2'	12.4'	S 19°13.9'	4.2'	54.1'

Fri Aug 24, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 15.8'		SD = 14.8'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	332°13.4'	179°22.4'	N 11°11.3'	26°29.6'	12.4'	S 19°09.7'	4.3'	54.1'
1	347°15.8'	194°22.6'	N 11°10.5'	41°01.0'	12.4'	S 19°05.5'	4.3'	54.1'
2	2°18.3'	209°22.7'	N 11°09.6'	55°32.4'	12.5'	S 19°01.1'	4.4'	54.1'
3	17°20.8'	224°22.9'	N 11°08.8'	70°03.9'	12.5'	S 18°56.7'	4.5'	54.1'
4	32°23.2'	239°23.1'	N 11°07.9'	84°35.4'	12.5'	S 18°52.1'	4.6'	54.1'
5	47°25.7'	254°23.3'	N 11°07.1'	99°06.9'	12.5'	S 18°47.5'	4.7'	54.1'
6	62°28.2'	269°23.4'	N 11°06.2'	113°38.4'	12.6'	S 18°42.8'	4.8'	54.1'
7	77°30.6'	284°23.6'	N 11°05.4'	128°10.0'	12.6'	S 18°38.1'	4.9'	54.1'
8	92°33.1'	299°23.8'	N 11°04.5'	142°41.6'	12.6'	S 18°33.2'	5.0'	54.1'
9	107°35.6'	314°23.9'	N 11°03.7'	157°13.2'	12.6'	S 18°28.2'	5.0'	54.1'
10	122°38.0'	329°24.1'	N 11°02.8'	171°44.8'	12.6'	S 18°23.2'	5.1'	54.1'
11	137°40.5'	344°24.3'	N 11°01.9'	186°16.4'	12.7'	S 18°18.1'	5.2'	54.1'
12	152°42.9'	359°24.4'	N 11°01.1'	200°48.1'	12.7'	S 18°12.9'	5.3'	54.1'
13	167°45.4'	14°24.6'	N 11°00.2'	215°19.8'	12.7'	S 18°07.6'	5.4'	54.1'
14	182°47.9'	29°24.8'	N 10°59.4'	229°51.5'	12.7'	S 18°02.2'	5.5'	54.1'
15	197°50.3'	44°24.9'	N 10°58.5'	244°23.3'	12.8'	S 17°56.8'	5.5'	54.1'
16	212°52.8'	59°25.1'	N 10°57.7'	258°55.1'	12.8'	S 17°51.2'	5.6'	54.1'
17	227°55.3'	74°25.3'	N 10°56.8'	273°26.9'	12.8'	S 17°45.6'	5.7'	54.1'
18	242°57.7'	89°25.5'	N 10°55.9'	287°58.7'	12.8'	S 17°39.9'	5.8'	54.1'
19	258°00.2'	104°25.6'	N 10°55.1'	302°30.5'	12.9'	S 17°34.1'	5.9'	54.1'
20	273°02.7'	119°25.8'	N 10°54.2'	317°02.4'	12.9'	S 17°28.3'	5.9'	54.1'
21	288°05.1'	134°26.0'	N 10°53.4'	331°34.3'	12.9'	S 17°22.4'	6.0'	54.1'
22	303°07.6'	149°26.1'	N 10°52.5'	346°06.2'	12.9'	S 17°16.3'	6.1'	54.2'
23	318°10.1'	164°26.3'	N 10°51.7'	0°38.1'	13.0'	S 17°10.2'	6.2'	54.2'

Sat Aug 25, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 15.8'		SD = 14.8'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	333°12.5'	179°26.5'	N 10°50.8'	15°10.1'	13.0'	S 17°04.1'	6.3'	54.2'
1	348°15.0'	194°26.7'	N 10°49.9'	29°42.1'	13.0'	S 16°57.8'	6.3'	54.2'
2	3°17.4'	209°26.8'	N 10°49.1'	44°14.1'	13.0'	S 16°51.5'	6.4'	54.2'
3	18°19.9'	224°27.0'	N 10°48.2'	58°46.2'	13.1'	S 16°45.1'	6.5'	54.2'
4	33°22.4'	239°27.2'	N 10°47.4'	73°18.2'	13.1'	S 16°38.6'	6.6'	54.2'
5	48°24.8'	254°27.3'	N 10°46.5'	87°50.3'	13.1'	S 16°32.0'	6.6'	54.2'
6	63°27.3'	269°27.5'	N 10°45.6'	102°22.5'	13.1'	S 16°25.4'	6.7'	54.2'
7	78°29.8'	284°27.7'	N 10°44.8'	116°54.6'	13.2'	S 16°18.7'	6.8'	54.2'
8	93°32.2'	299°27.9'	N 10°43.9'	131°26.8'	13.2'	S 16°11.9'	6.9'	54.2'
9	108°34.7'	314°28.0'	N 10°43.0'	145°59.0'	13.2'	S 16°05.1'	6.9'	54.2'
10	123°37.2'	329°28.2'	N 10°42.2'	160°31.2'	13.2'	S 15°58.1'	7.0'	54.2'
11	138°39.6'	344°28.4'	N 10°41.3'	175°03.4'	13.3'	S 15°51.1'	7.1'	54.3'
12	153°42.1'	359°28.6'	N 10°40.5'	189°35.7'	13.3'	S 15°44.1'	7.1'	54.3'
13	168°44.6'	14°28.7'	N 10°39.6'	204°08.0'	13.3'	S 15°36.9'	7.2'	54.3'
14	183°47.0'	29°28.9'	N 10°38.7'	218°40.3'	13.3'	S 15°29.7'	7.3'	54.3'
15	198°49.5'	44°29.1'	N 10°37.9'	233°12.7'	13.4'	S 15°22.4'	7.4'	54.3'
16	213°51.9'	59°29.3'	N 10°37.0'	247°45.1'	13.4'	S 15°15.1'	7.4'	54.3'
17	228°54.4'	74°29.4'	N 10°36.1'	262°17.5'	13.4'	S 15°07.6'	7.5'	54.3'
18	243°56.9'	89°29.6'	N 10°35.3'	276°49.9'	13.4'	S 15°00.1'	7.6'	54.3'
19	258°59.3'	104°29.8'	N 10°34.4'	291°22.3'	13.5'	S 14°52.6'	7.6'	54.3'
20	274°01.8'	119°30.0'	N 10°33.5'	305°54.8'	13.5'	S 14°44.9'	7.7'	54.3'
21	289°04.3'	134°30.1'	N 10°32.7'	320°27.3'	13.5'	S 14°37.2'	7.8'	54.3'
22	304°06.7'	149°30.3'	N 10°31.8'	334°59.8'	13.5'	S 14°29.5'	7.8'	54.3'
23	319°09.2'	164°30.5'	N 10°30.9'	349°32.4'	13.6'	S 14°21.6'	7.9'	54.4'

Sun Aug 26, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 15.8'		SD = 14.9'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	334°11.7'	179°30.7'	N 10°30.1'	4°04.9'	13.6'	S 14°13.7'	8.0'	54.4'
1	349°14.1'	194°30.8'	N 10°29.2'	18°37.5'	13.6'	S 14°05.8'	8.0'	54.4'
2	4°16.6'	209°31.0'	N 10°28.3'	33°10.1'	13.6'	S 13°57.8'	8.1'	54.4'
3	19°19.0'	224°31.2'	N 10°27.5'	47°42.8'	13.7'	S 13°49.7'	8.2'	54.4'
4	34°21.5'	239°31.4'	N 10°26.6'	62°15.4'	13.7'	S 13°41.5'	8.2'	54.4'
5	49°24.0'	254°31.5'	N 10°25.7'	76°48.1'	13.7'	S 13°33.3'	8.3'	54.4'
6	64°26.4'	269°31.7'	N 10°24.9'	91°20.8'	13.7'	S 13°25.0'	8.3'	54.4'
7	79°28.9'	284°31.9'	N 10°24.0'	105°53.6'	13.8'	S 13°16.7'	8.4'	54.4'
8	94°31.4'	299°32.1'	N 10°23.1'	120°26.3'	13.8'	S 13°08.3'	8.5'	54.5'
9	109°33.8'	314°32.2'	N 10°22.3'	134°59.1'	13.8'	S 12°59.8'	8.5'	54.5'
10	124°36.3'	329°32.4'	N 10°21.4'	149°31.9'	13.8'	S 12°51.3'	8.6'	54.5'
11	139°38.8'	344°32.6'	N 10°20.5'	164°04.7'	13.8'	S 12°42.7'	8.6'	54.5'
12	154°41.2'	359°32.8'	N 10°19.6'	178°37.5'	13.9'	S 12°34.0'	8.7'	54.5'
13	169°43.7'	14°33.0'	N 10°18.8'	193°10.4'	13.9'	S 12°25.3'	8.8'	54.5'
14	184°46.2'	29°33.1'	N 10°17.9'	207°43.3'	13.9'	S 12°16.6'	8.8'	54.5'
15	199°48.6'	44°33.3'	N 10°17.0'	222°16.2'	13.9'	S 12°07.8'	8.9'	54.5'
16	214°51.1'	59°33.5'	N 10°16.2'	236°49.1'	13.9'	S 11°58.9'	8.9'	54.5'
17	229°53.5'	74°33.7'	N 10°15.3'	251°22.0'	14.0'	S 11°50.0'	9.0'	54.6'
18	244°56.0'	89°33.8'	N 10°14.4'	265°55.0'	14.0'	S 11°41.0'	9.0'	54.6'
19	259°58.5'	104°34.0'	N 10°13.6'	280°28.0'	14.0'	S 11°32.0'	9.1'	54.6'
20	275°00.9'	119°34.2'	N 10°12.7'	295°01.0'	14.0'	S 11°22.9'	9.1'	54.6'
21	290°03.4'	134°34.4'	N 10°11.8'	309°34.0'	14.0'	S 11°13.7'	9.2'	54.6'
22	305°05.9'	149°34.6'	N 10°10.9'	324°07.0'	14.1'	S 11°04.5'	9.2'	54.6'
23	320°08.3'	164°34.7'	N 10°10.1'	338°40.1'	14.1'	S 10°55.3'	9.3'	54.6'

Mon Aug 27, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 15.8'		SD = 14.9'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	335°10.8'	179°34.9'	N 10°09.2'	353°13.1'	14.1'	S 10°46.0'	9.3'	54.6'
1	350°13.3'	194°35.1'	N 10°08.3'	7°46.2'	14.1'	S 10°36.7'	9.4'	54.7'
2	5°15.7'	209°35.3'	N 10°07.4'	22°19.3'	14.1'	S 10°27.3'	9.4'	54.7'
3	20°18.2'	224°35.5'	N 10°06.6'	36°52.4'	14.1'	S 10°17.8'	9.5'	54.7'
4	35°20.7'	239°35.6'	N 10°05.7'	51°25.6'	14.2'	S 10°08.3'	9.5'	54.7'
5	50°23.1'	254°35.8'	N 10°04.8'	65°58.7'	14.2'	S 9°58.8'	9.6'	54.7'
6	65°25.6'	269°36.0'	N 10°03.9'	80°31.9'	14.2'	S 9°49.2'	9.6'	54.7'
7	80°28.0'	284°36.2'	N 10°03.1'	95°05.1'	14.2'	S 9°39.5'	9.7'	54.7'
8	95°30.5'	299°36.4'	N 10°02.2'	109°38.3'	14.2'	S 9°29.9'	9.7'	54.8'
9	110°33.0'	314°36.6'	N 10°01.3'	124°11.5'	14.2'	S 9°20.1'	9.8'	54.8'
10	125°35.4'	329°36.7'	N 10°00.4'	138°44.7'	14.2'	S 9°10.4'	9.8'	54.8'
11	140°37.9'	344°36.9'	N 9°59.6'	153°17.9'	14.2'	S 9°00.5'	9.9'	54.8'
12	155°40.4'	359°37.1'	N 9°58.7'	167°51.2'	14.3'	S 8°50.7'	9.9'	54.8'
13	170°42.8'	14°37.3'	N 9°57.8'	182°24.4'	14.3'	S 8°40.8'	9.9'	54.8'
14	185°45.3'	29°37.5'	N 9°56.9'	196°57.7'	14.3'	S 8°30.8'	10.0'	54.8'
15	200°47.8'	44°37.6'	N 9°56.0'	211°31.0'	14.3'	S 8°20.9'	10.0'	54.9'
16	215°50.2'	59°37.8'	N 9°55.2'	226°04.3'	14.3'	S 8°10.8'	10.1'	54.9'
17	230°52.7'	74°38.0'	N 9°54.3'	240°37.6'	14.3'	S 8°00.8'	10.1'	54.9'
18	245°55.1'	89°38.2'	N 9°53.4'	255°10.9'	14.3'	S 7°50.7'	10.1'	54.9'
19	260°57.6'	104°38.4'	N 9°52.5'	269°44.2'	14.3'	S 7°40.5'	10.2'	54.9'
20	276°00.1'	119°38.6'	N 9°51.7'	284°17.5'	14.3'	S 7°30.3'	10.2'	54.9'
21	291°02.5'	134°38.7'	N 9°50.8'	298°50.9'	14.3'	S 7°20.1'	10.3'	54.9'
22	306°05.0'	149°38.9'	N 9°49.9'	313°24.2'	14.4'	S 7°09.8'	10.3'	55.0'
23	321°07.5'	164°39.1'	N 9°49.0'	327°57.6'	14.4'	S 6°59.5'	10.3'	55.0'

Tue Aug 28, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 15.8'		SD = 15.1'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	336°09.9'	179°39.3'	N 9°48.1'	342°30.9'	14.4'	S 6°49.2'	10.4'	55.0'
1	351°12.4'	194°39.5'	N 9°47.3'	357°04.3'	14.4'	S 6°38.9'	10.4'	55.0'
2	6°14.9'	209°39.7'	N 9°46.4'	11°37.7'	14.4'	S 6°28.5'	10.4'	55.0'
3	21°17.3'	224°39.8'	N 9°45.5'	26°11.0'	14.4'	S 6°18.0'	10.5'	55.0'
4	36°19.8'	239°40.0'	N 9°44.6'	40°44.4'	14.4'	S 6°07.6'	10.5'	55.1'
5	51°22.3'	254°40.2'	N 9°43.7'	55°17.8'	14.4'	S 5°57.1'	10.5'	55.1'
6	66°24.7'	269°40.4'	N 9°42.9'	69°51.2'	14.4'	S 5°46.5'	10.6'	55.1'
7	81°27.2'	284°40.6'	N 9°42.0'	84°24.6'	14.4'	S 5°36.0'	10.6'	55.1'
8	96°29.6'	299°40.8'	N 9°41.1'	98°58.0'	14.4'	S 5°25.4'	10.6'	55.1'
9	111°32.1'	314°41.0'	N 9°40.2'	113°31.4'	14.4'	S 5°14.8'	10.6'	55.1'
10	126°34.6'	329°41.1'	N 9°39.3'	128°04.7'	14.4'	S 5°04.1'	10.7'	55.2'
11	141°37.0'	344°41.3'	N 9°38.4'	142°38.1'	14.4'	S 4°53.5'	10.7'	55.2'
12	156°39.5'	359°41.5'	N 9°37.6'	157°11.5'	14.4'	S 4°42.8'	10.7'	55.2'
13	171°42.0'	14°41.7'	N 9°36.7'	171°44.9'	14.4'	S 4°32.0'	10.8'	55.2'
14	186°44.4'	29°41.9'	N 9°35.8'	186°18.3'	14.4'	S 4°21.3'	10.8'	55.2'
15	201°46.9'	44°42.1'	N 9°34.9'	200°51.7'	14.4'	S 4°10.5'	10.8'	55.2'
16	216°49.4'	59°42.3'	N 9°34.0'	215°25.1'	14.4'	S 3°59.7'	10.8'	55.3'
17	231°51.8'	74°42.4'	N 9°33.1'	229°58.4'	14.4'	S 3°48.9'	10.8'	55.3'
18	246°54.3'	89°42.6'	N 9°32.3'	244°31.8'	14.4'	S 3°38.0'	10.9'	55.3'
19	261°56.7'	104°42.8'	N 9°31.4'	259°05.2'	14.4'	S 3°27.2'	10.9'	55.3'
20	276°59.2'	119°43.0'	N 9°30.5'	273°38.6'	14.4'	S 3°16.3'	10.9'	55.3'
21	292°01.7'	134°43.2'	N 9°29.6'	288°11.9'	14.4'	S 3°05.4'	10.9'	55.3'
22	307°04.1'	149°43.4'	N 9°28.7'	302°45.3'	14.3'	S 2°54.4'	10.9'	55.4'
23	322°06.6'	164°43.6'	N 9°27.8'	317°18.6'	14.3'	S 2°43.5'	11.0'	55.4'

Wed Aug 29, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 15.8'		SD = 15.2'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	337°09.1'	179°43.8'	N 9°26.9'	331°51.9'	14.3'	S 2°32.5'	11.0'	55.4'
1	352°11.5'	194°43.9'	N 9°26.0'	346°25.3'	14.3'	S 2°21.5'	11.0'	55.4'
2	7°14.0'	209°44.1'	N 9°25.2'	0°58.6'	14.3'	S 2°10.5'	11.0'	55.4'
3	22°16.5'	224°44.3'	N 9°24.3'	15°31.9'	14.3'	S 1°59.5'	11.0'	55.5'
4	37°18.9'	239°44.5'	N 9°23.4'	30°05.2'	14.3'	S 1°48.5'	11.0'	55.5'
5	52°21.4'	254°44.7'	N 9°22.5'	44°38.5'	14.3'	S 1°37.4'	11.1'	55.5'
6	67°23.9'	269°44.9'	N 9°21.6'	59°11.7'	14.3'	S 1°26.4'	11.1'	55.5'
7	82°26.3'	284°45.1'	N 9°20.7'	73°45.0'	14.2'	S 1°15.3'	11.1'	55.5'
8	97°28.8'	299°45.3'	N 9°19.8'	88°18.3'	14.2'	S 1°04.2'	11.1'	55.5'
9	112°31.2'	314°45.4'	N 9°18.9'	102°51.5'	14.2'	S 0°53.1'	11.1'	55.6'
10	127°33.7'	329°45.6'	N 9°18.1'	117°24.7'	14.2'	S 0°42.0'	11.1'	55.6'
11	142°36.2'	344°45.8'	N 9°17.2'	131°57.9'	14.2'	S 0°30.9'	11.1'	55.6'
12	157°38.6'	359°46.0'	N 9°16.3'	146°31.1'	14.2'	S 0°19.8'	11.1'	55.6'
13	172°41.1'	14°46.2'	N 9°15.4'	161°04.3'	14.1'	S 0°08.6'	11.1'	55.6'
14	187°43.6'	29°46.4'	N 9°14.5'	175°37.4'	14.1'	N 0°02.5'	11.2'	55.7'
15	202°46.0'	44°46.6'	N 9°13.6'	190°10.5'	14.1'	N 0°13.7'	11.2'	55.7'
16	217°48.5'	59°46.8'	N 9°12.7'	204°43.6'	14.1'	N 0°24.8'	11.2'	55.7'
17	232°51.0'	74°47.0'	N 9°11.8'	219°16.7'	14.1'	N 0°36.0'	11.2'	55.7'
18	247°53.4'	89°47.2'	N 9°10.9'	233°49.8'	14.0'	N 0°47.2'	11.2'	55.7'
19	262°55.9'	104°47.3'	N 9°10.0'	248°22.9'	14.0'	N 0°58.3'	11.2'	55.8'
20	277°58.3'	119°47.5'	N 9°09.2'	262°55.9'	14.0'	N 1°09.5'	11.2'	55.8'
21	293°00.8'	134°47.7'	N 9°08.3'	277°28.9'	14.0'	N 1°20.7'	11.2'	55.8'
22	308°03.3'	149°47.9'	N 9°07.4'	292°01.9'	14.0'	N 1°31.9'	11.2'	55.8'
23	323°05.7'	164°48.1'	N 9°06.5'	306°34.8'	13.9'	N 1°43.0'	11.2'	55.8'

Thu Aug 30, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 15.8'		SD = 15.3'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	338°08.2'	179°48.3'	N 9°05.6'	321°07.7'	13.9'	N 1°54.2'	11.2'	55.9'
1	353°10.7'	194°48.5'	N 9°04.7'	335°40.7'	13.9'	N 2°05.4'	11.2'	55.9'
2	8°13.1'	209°48.7'	N 9°03.8'	350°13.5'	13.8'	N 2°16.6'	11.2'	55.9'
3	23°15.6'	224°48.9'	N 9°02.9'	4°46.4'	13.8'	N 2°27.8'	11.2'	55.9'
4	38°18.1'	239°49.1'	N 9°02.0'	19°19.2'	13.8'	N 2°38.9'	11.2'	56.0'
5	53°20.5'	254°49.3'	N 9°01.1'	33°52.0'	13.8'	N 2°50.1'	11.2'	56.0'
6	68°23.0'	269°49.4'	N 9°00.2'	48°24.8'	13.7'	N 3°01.3'	11.2'	56.0'
7	83°25.5'	284°49.6'	N 8°59.3'	62°57.5'	13.7'	N 3°12.4'	11.2'	56.0'
8	98°27.9'	299°49.8'	N 8°58.4'	77°30.2'	13.7'	N 3°23.6'	11.1'	56.0'
9	113°30.4'	314°50.0'	N 8°57.5'	92°02.9'	13.6'	N 3°34.7'	11.1'	56.1'
10	128°32.8'	329°50.2'	N 8°56.6'	106°35.5'	13.6'	N 3°45.9'	11.1'	56.1'
11	143°35.3'	344°50.4'	N 8°55.7'	121°08.1'	13.6'	N 3°57.0'	11.1'	56.1'
12	158°37.8'	359°50.6'	N 8°54.8'	135°40.7'	13.5'	N 4°08.1'	11.1'	56.1'
13	173°40.2'	14°50.8'	N 8°54.0'	150°13.2'	13.5'	N 4°19.2'	11.1'	56.2'
14	188°42.7'	29°51.0'	N 8°53.1'	164°45.7'	13.5'	N 4°30.3'	11.1'	56.2'
15	203°45.2'	44°51.2'	N 8°52.2'	179°18.2'	13.4'	N 4°41.4'	11.1'	56.2'
16	218°47.6'	59°51.4'	N 8°51.3'	193°50.6'	13.4'	N 4°52.4'	11.1'	56.2'
17	233°50.1'	74°51.6'	N 8°50.4'	208°23.0'	13.3'	N 5°03.5'	11.0'	56.2'
18	248°52.6'	89°51.8'	N 8°49.5'	222°55.3'	13.3'	N 5°14.5'	11.0'	56.3'
19	263°55.0'	104°52.0'	N 8°48.6'	237°27.6'	13.3'	N 5°25.6'	11.0'	56.3'
20	278°57.5'	119°52.1'	N 8°47.7'	251°59.9'	13.2'	N 5°36.6'	11.0'	56.3'
21	293°60.0'	134°52.3'	N 8°46.8'	266°32.1'	13.2'	N 5°47.6'	11.0'	56.3'
22	309°02.4'	149°52.5'	N 8°45.9'	281°04.3'	13.1'	N 5°58.5'	11.0'	56.4'
23	324°04.9'	164°52.7'	N 8°45.0'	295°36.4'	13.1'	N 6°09.5'	10.9'	56.4'

Fri Aug 31, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 15.8'		SD = 15.5'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	339°07.3'	179°52.9'	N 8°44.1'	310°08.5'	13.1'	N 6°20.4'	10.9'	56.4'
1	354°09.8'	194°53.1'	N 8°43.2'	324°40.6'	13.0'	N 6°31.3'	10.9'	56.4'
2	9°12.3'	209°53.3'	N 8°42.3'	339°12.6'	13.0'	N 6°42.2'	10.9'	56.5'
3	24°14.7'	224°53.5'	N 8°41.4'	353°44.6'	12.9'	N 6°53.1'	10.8'	56.5'
4	39°17.2'	239°53.7'	N 8°40.5'	8°16.5'	12.9'	N 7°03.9'	10.8'	56.5'
5	54°19.7'	254°53.9'	N 8°39.6'	22°48.3'	12.8'	N 7°14.7'	10.8'	56.5'
6	69°22.1'	269°54.1'	N 8°38.7'	37°20.2'	12.8'	N 7°25.5'	10.8'	56.5'
7	84°24.6'	284°54.3'	N 8°37.8'	51°51.9'	12.7'	N 7°36.3'	10.7'	56.6'
8	99°27.1'	299°54.5'	N 8°36.9'	66°23.6'	12.7'	N 7°47.0'	10.7'	56.6'
9	114°29.5'	314°54.7'	N 8°36.0'	80°55.3'	12.6'	N 7°57.7'	10.7'	56.6'
10	129°32.0'	329°54.9'	N 8°35.1'	95°26.9'	12.6'	N 8°08.4'	10.6'	56.6'
11	144°34.4'	344°55.1'	N 8°34.2'	109°58.5'	12.5'	N 8°19.1'	10.6'	56.7'
12	159°36.9'	359°55.3'	N 8°33.3'	124°30.0'	12.5'	N 8°29.7'	10.6'	56.7'
13	174°39.4'	14°55.5'	N 8°32.4'	139°01.5'	12.4'	N 8°40.3'	10.6'	56.7'
14	189°41.8'	29°55.7'	N 8°31.5'	153°32.9'	12.4'	N 8°50.8'	10.5'	56.7'
15	204°44.3'	44°55.9'	N 8°30.6'	168°04.2'	12.3'	N 9°01.4'	10.5'	56.8'
16	219°46.8'	59°56.0'	N 8°29.7'	182°35.5'	12.2'	N 9°11.8'	10.4'	56.8'
17	234°49.2'	74°56.2'	N 8°28.8'	197°06.8'	12.2'	N 9°22.3'	10.4'	56.8'
18	249°51.7'	89°56.4'	N 8°27.9'	211°38.0'	12.1'	N 9°32.7'	10.4'	56.8'
19	264°54.2'	104°56.6'	N 8°27.0'	226°09.1'	12.1'	N 9°43.1'	10.3'	56.9'
20	279°56.6'	119°56.8'	N 8°26.1'	240°40.2'	12.0'	N 9°53.4'	10.3'	56.9'
21	294°59.1'	134°57.0'	N 8°25.2'	255°11.2'	12.0'	N 10°03.7'	10.3'	56.9'
22	310°01.6'	149°57.2'	N 8°24.3'	269°42.1'	11.9'	N 10°14.0'	10.2'	56.9'
23	325°04.0'	164°57.4'	N 8°23.3'	284°13.0'	11.8'	N 10°24.2'	10.2'	57.0'