

Tue Aug 1, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.6' SD = 15.8'		SD = 14.8'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	309°47.6'	178°24.7'	N 18°01.0'	76°48.4'	13.7'	S 13°40.2'	7.1'	54.4'
1	324°50.0'	193°24.7'	N 18°00.4'	91°21.1'	13.7'	S 13°47.3'	7.0'	54.4'
2	339°52.5'	208°24.8'	N 17°59.7'	105°53.8'	13.7'	S 13°54.4'	7.0'	54.3'
3	354°55.0'	223°24.8'	N 17°59.1'	120°26.5'	13.7'	S 14°01.3'	6.9'	54.3'
4	9°57.4'	238°24.8'	N 17°58.5'	134°59.2'	13.6'	S 14°08.3'	6.9'	54.3'
5	24°59.9'	253°24.9'	N 17°57.8'	149°31.8'	13.6'	S 14°15.1'	6.8'	54.3'
6	40°02.4'	268°24.9'	N 17°57.2'	164°04.4'	13.6'	S 14°21.9'	6.7'	54.3'
7	55°04.8'	283°25.0'	N 17°56.6'	178°37.0'	13.6'	S 14°28.6'	6.7'	54.3'
8	70°07.3'	298°25.0'	N 17°55.9'	193°09.6'	13.6'	S 14°35.3'	6.6'	54.3'
9	85°09.8'	313°25.0'	N 17°55.3'	207°42.2'	13.5'	S 14°41.9'	6.5'	54.3'
10	100°12.2'	328°25.1'	N 17°54.7'	222°14.7'	13.5'	S 14°48.4'	6.5'	54.3'
11	115°14.7'	343°25.1'	N 17°54.0'	236°47.3'	13.5'	S 14°54.9'	6.4'	54.3'
12	130°17.1'	358°25.2'	N 17°53.4'	251°19.8'	13.5'	S 15°01.3'	6.3'	54.2'
13	145°19.6'	13°25.2'	N 17°52.8'	265°52.2'	13.5'	S 15°07.6'	6.3'	54.2'
14	160°22.1'	28°25.2'	N 17°52.1'	280°24.7'	13.4'	S 15°13.9'	6.2'	54.2'
15	175°24.5'	43°25.3'	N 17°51.5'	294°57.1'	13.4'	S 15°20.1'	6.1'	54.2'
16	190°27.0'	58°25.3'	N 17°50.9'	309°29.5'	13.4'	S 15°26.2'	6.1'	54.2'
17	205°29.5'	73°25.4'	N 17°50.2'	324°01.9'	13.4'	S 15°32.3'	6.0'	54.2'
18	220°31.9'	88°25.4'	N 17°49.6'	338°34.3'	13.3'	S 15°38.3'	5.9'	54.2'
19	235°34.4'	103°25.5'	N 17°49.0'	353°06.6'	13.3'	S 15°44.2'	5.9'	54.2'
20	250°36.9'	118°25.5'	N 17°48.3'	7°38.9'	13.3'	S 15°50.1'	5.8'	54.2'
21	265°39.3'	133°25.5'	N 17°47.7'	22°11.2'	13.3'	S 15°55.8'	5.7'	54.2'
22	280°41.8'	148°25.6'	N 17°47.0'	36°43.5'	13.2'	S 16°01.6'	5.6'	54.2'
23	295°44.2'	163°25.6'	N 17°46.4'	51°15.7'	13.2'	S 16°07.2'	5.6'	54.2'

Wed Aug 2, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.6' SD = 15.8'		SD = 14.8'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	310°46.7'	178°25.7'	N 17°45.8'	65°47.9'	13.2'	S 16°12.8'	5.5'	54.2'
1	325°49.2'	193°25.7'	N 17°45.1'	80°20.1'	13.2'	S 16°18.3'	5.4'	54.2'
2	340°51.6'	208°25.8'	N 17°44.5'	94°52.3'	13.1'	S 16°23.7'	5.4'	54.2'
3	355°54.1'	223°25.8'	N 17°43.8'	109°24.4'	13.1'	S 16°29.0'	5.3'	54.2'
4	10°56.6'	238°25.9'	N 17°43.2'	123°56.6'	13.1'	S 16°34.3'	5.2'	54.2'
5	25°59.0'	253°25.9'	N 17°42.5'	138°28.6'	13.1'	S 16°39.5'	5.1'	54.2'
6	41°01.5'	268°25.9'	N 17°41.9'	153°00.7'	13.0'	S 16°44.7'	5.1'	54.2'
7	56°04.0'	283°26.0'	N 17°41.3'	167°32.7'	13.0'	S 16°49.7'	5.0'	54.1'
8	71°06.4'	298°26.0'	N 17°40.6'	182°04.8'	13.0'	S 16°54.7'	4.9'	54.1'
9	86°08.9'	313°26.1'	N 17°40.0'	196°36.7'	13.0'	S 16°59.6'	4.8'	54.1'
10	101°11.4'	328°26.1'	N 17°39.3'	211°08.7'	12.9'	S 17°04.4'	4.8'	54.1'
11	116°13.8'	343°26.2'	N 17°38.7'	225°40.6'	12.9'	S 17°09.2'	4.7'	54.1'
12	131°16.3'	358°26.2'	N 17°38.0'	240°12.5'	12.9'	S 17°13.9'	4.6'	54.1'
13	146°18.7'	13°26.3'	N 17°37.4'	254°44.4'	12.9'	S 17°18.5'	4.5'	54.1'
14	161°21.2'	28°26.3'	N 17°36.7'	269°16.3'	12.8'	S 17°23.0'	4.4'	54.1'
15	176°23.7'	43°26.4'	N 17°36.1'	283°48.1'	12.8'	S 17°27.4'	4.4'	54.1'
16	191°26.1'	58°26.4'	N 17°35.4'	298°19.9'	12.8'	S 17°31.8'	4.3'	54.1'
17	206°28.6'	73°26.5'	N 17°34.8'	312°51.7'	12.8'	S 17°36.1'	4.2'	54.1'
18	221°31.1'	88°26.5'	N 17°34.1'	327°23.4'	12.7'	S 17°40.3'	4.1'	54.1'
19	236°33.5'	103°26.6'	N 17°33.5'	341°55.2'	12.7'	S 17°44.5'	4.1'	54.1'
20	251°36.0'	118°26.6'	N 17°32.8'	356°26.9'	12.7'	S 17°48.5'	4.0'	54.1'
21	266°38.5'	133°26.7'	N 17°32.2'	10°58.5'	12.6'	S 17°52.5'	3.9'	54.1'
22	281°40.9'	148°26.7'	N 17°31.5'	25°30.2'	12.6'	S 17°56.4'	3.8'	54.1'
23	296°43.4'	163°26.8'	N 17°30.9'	40°01.8'	12.6'	S 18°00.2'	3.7'	54.1'

Thu Aug 3, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.7' SD = 15.8'		SD = 14.8'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	311°45.9'	178°26.8'	N 17°30.2'	54°33.4'	12.6'	S 18°03.9'	3.7'	54.1'
1	326°48.3'	193°26.9'	N 17°29.6'	69°05.0'	12.5'	S 18°07.6'	3.6'	54.1'
2	341°50.8'	208°26.9'	N 17°28.9'	83°36.5'	12.5'	S 18°11.2'	3.5'	54.1'
3	356°53.2'	223°27.0'	N 17°28.3'	98°08.0'	12.5'	S 18°14.6'	3.4'	54.1'
4	11°55.7'	238°27.0'	N 17°27.6'	112°39.5'	12.5'	S 18°18.0'	3.3'	54.2'
5	26°58.2'	253°27.1'	N 17°27.0'	127°11.0'	12.4'	S 18°21.4'	3.2'	54.2'
6	42°00.6'	268°27.1'	N 17°26.3'	141°42.4'	12.4'	S 18°24.6'	3.2'	54.2'
7	57°03.1'	283°27.2'	N 17°25.7'	156°13.8'	12.4'	S 18°27.8'	3.1'	54.2'
8	72°05.6'	298°27.2'	N 17°25.0'	170°45.2'	12.4'	S 18°30.8'	3.0'	54.2'
9	87°08.0'	313°27.3'	N 17°24.3'	185°16.6'	12.3'	S 18°33.8'	2.9'	54.2'
10	102°10.5'	328°27.3'	N 17°23.7'	199°47.9'	12.3'	S 18°36.7'	2.8'	54.2'
11	117°13.0'	343°27.4'	N 17°23.0'	214°19.2'	12.3'	S 18°39.6'	2.7'	54.2'
12	132°15.4'	358°27.4'	N 17°22.4'	228°50.5'	12.3'	S 18°42.3'	2.7'	54.2'
13	147°17.9'	13°27.5'	N 17°21.7'	243°21.8'	12.2'	S 18°44.9'	2.6'	54.2'
14	162°20.4'	28°27.6'	N 17°21.0'	257°53.0'	12.2'	S 18°47.5'	2.5'	54.2'
15	177°22.8'	43°27.6'	N 17°20.4'	272°24.2'	12.2'	S 18°50.0'	2.4'	54.2'
16	192°25.3'	58°27.7'	N 17°19.7'	286°55.4'	12.2'	S 18°52.4'	2.3'	54.2'
17	207°27.7'	73°27.7'	N 17°19.1'	301°26.6'	12.1'	S 18°54.7'	2.2'	54.2'
18	222°30.2'	88°27.8'	N 17°18.4'	315°57.8'	12.1'	S 18°56.9'	2.1'	54.2'
19	237°32.7'	103°27.8'	N 17°17.7'	330°28.9'	12.1'	S 18°59.0'	2.0'	54.2'
20	252°35.1'	118°27.9'	N 17°17.1'	344°60.0'	12.1'	S 19°01.1'	2.0'	54.2'
21	267°37.6'	133°27.9'	N 17°16.4'	359°31.1'	12.1'	S 19°03.0'	1.9'	54.2'
22	282°40.1'	148°28.0'	N 17°15.8'	14°02.1'	12.0'	S 19°04.9'	1.8'	54.2'
23	297°42.5'	163°28.1'	N 17°15.1'	28°33.2'	12.0'	S 19°06.7'	1.7'	54.2'

Fri Aug 4, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.7' SD = 15.8'		SD = 14.8'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	312°45.0'	178°28.1'	N 17°14.4'	43°04.2'	12.0'	S 19°08.4'	1.6'	54.3'
1	327°47.5'	193°28.2'	N 17°13.8'	57°35.2'	12.0'	S 19°10.0'	1.5'	54.3'
2	342°49.9'	208°28.2'	N 17°13.1'	72°06.1'	12.0'	S 19°11.5'	1.4'	54.3'
3	357°52.4'	223°28.3'	N 17°12.4'	86°37.1'	11.9'	S 19°12.9'	1.3'	54.3'
4	12°54.8'	238°28.3'	N 17°11.8'	101°08.0'	11.9'	S 19°14.3'	1.2'	54.3'
5	27°57.3'	253°28.4'	N 17°11.1'	115°38.9'	11.9'	S 19°15.5'	1.2'	54.3'
6	42°59.8'	268°28.5'	N 17°10.4'	130°09.8'	11.9'	S 19°16.7'	1.1'	54.3'
7	58°02.2'	283°28.5'	N 17°09.8'	144°40.7'	11.9'	S 19°17.8'	1.0'	54.3'
8	73°04.7'	298°28.6'	N 17°09.1'	159°11.5'	11.8'	S 19°18.7'	0.9'	54.3'
9	88°07.2'	313°28.6'	N 17°08.4'	173°42.4'	11.8'	S 19°19.6'	0.8'	54.3'
10	103°09.6'	328°28.7'	N 17°07.8'	188°13.2'	11.8'	S 19°20.4'	0.7'	54.3'
11	118°12.1'	343°28.8'	N 17°07.1'	202°44.0'	11.8'	S 19°21.1'	0.6'	54.3'
12	133°14.6'	358°28.8'	N 17°06.4'	217°14.8'	11.8'	S 19°21.8'	0.5'	54.4'
13	148°17.0'	13°28.9'	N 17°05.7'	231°45.5'	11.7'	S 19°22.3'	0.4'	54.4'
14	163°19.5'	28°28.9'	N 17°05.1'	246°16.3'	11.7'	S 19°22.7'	0.3'	54.4'
15	178°22.0'	43°29.0'	N 17°04.4'	260°47.0'	11.7'	S 19°23.1'	0.3'	54.4'
16	193°24.4'	58°29.1'	N 17°03.7'	275°17.7'	11.7'	S 19°23.3'	0.2'	54.4'
17	208°26.9'	73°29.1'	N 17°03.1'	289°48.4'	11.7'	S 19°23.5'	0.1'	54.4'
18	223°29.3'	88°29.2'	N 17°02.4'	304°19.1'	11.7'	S 19°23.5'	0.0'	54.4'
19	238°31.8'	103°29.2'	N 17°01.7'	318°49.7'	11.6'	S 19°23.5'	0.1'	54.4'
20	253°34.3'	118°29.3'	N 17°01.0'	333°20.4'	11.6'	S 19°23.4'	0.2'	54.4'
21	268°36.7'	133°29.4'	N 17°00.4'	347°51.0'	11.6'	S 19°23.2'	0.3'	54.5'
22	283°39.2'	148°29.4'	N 16°59.7'	2°21.6'	11.6'	S 19°22.9'	0.4'	54.5'
23	298°41.7'	163°29.5'	N 16°59.0'	16°52.3'	11.6'	S 19°22.5'	0.5'	54.5'

Sat Aug 5, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.7' SD = 15.8'		SD = 14.9'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	313°44.1'	178°29.6'	N 16°58.3'	31°22.9'	11.6'	S 19°22.0'	0.6'	54.5'
1	328°46.6'	193°29.6'	N 16°57.7'	45°53.4'	11.6'	S 19°21.4'	0.7'	54.5'
2	343°49.1'	208°29.7'	N 16°57.0'	60°24.0'	11.6'	S 19°20.8'	0.8'	54.5'
3	358°51.5'	223°29.8'	N 16°56.3'	74°54.6'	11.5'	S 19°20.0'	0.9'	54.5'
4	13°54.0'	238°29.8'	N 16°55.6'	89°25.1'	11.5'	S 19°19.1'	0.9'	54.5'
5	28°56.5'	253°29.9'	N 16°55.0'	103°55.6'	11.5'	S 19°18.2'	1.0'	54.5'
6	43°58.9'	268°30.0'	N 16°54.3'	118°26.2'	11.5'	S 19°17.2'	1.1'	54.6'
7	59°01.4'	283°30.0'	N 16°53.6'	132°56.7'	11.5'	S 19°16.0'	1.2'	54.6'
8	74°03.8'	298°30.1'	N 16°52.9'	147°27.2'	11.5'	S 19°14.8'	1.3'	54.6'
9	89°06.3'	313°30.1'	N 16°52.2'	161°57.7'	11.5'	S 19°13.5'	1.4'	54.6'
10	104°08.8'	328°30.2'	N 16°51.6'	176°28.2'	11.5'	S 19°12.1'	1.5'	54.6'
11	119°11.2'	343°30.3'	N 16°50.9'	190°58.7'	11.5'	S 19°10.5'	1.6'	54.6'
12	134°13.7'	358°30.3'	N 16°50.2'	205°29.1'	11.5'	S 19°08.9'	1.7'	54.6'
13	149°16.2'	13°30.4'	N 16°49.5'	219°59.6'	11.5'	S 19°07.3'	1.8'	54.7'
14	164°18.6'	28°30.5'	N 16°48.8'	234°30.1'	11.5'	S 19°05.5'	1.9'	54.7'
15	179°21.1'	43°30.5'	N 16°48.1'	249°00.5'	11.4'	S 19°03.6'	2.0'	54.7'
16	194°23.6'	58°30.6'	N 16°47.5'	263°31.0'	11.4'	S 19°01.6'	2.1'	54.7'
17	209°26.0'	73°30.7'	N 16°46.8'	278°01.4'	11.4'	S 18°59.5'	2.2'	54.7'
18	224°28.5'	88°30.8'	N 16°46.1'	292°31.8'	11.4'	S 18°57.4'	2.3'	54.7'
19	239°31.0'	103°30.8'	N 16°45.4'	307°02.3'	11.4'	S 18°55.1'	2.3'	54.7'
20	254°33.4'	118°30.9'	N 16°44.7'	321°32.7'	11.4'	S 18°52.8'	2.4'	54.8'
21	269°35.9'	133°31.0'	N 16°44.0'	336°03.1'	11.4'	S 18°50.4'	2.5'	54.8'
22	284°38.3'	148°31.0'	N 16°43.4'	350°33.5'	11.4'	S 18°47.8'	2.6'	54.8'
23	299°40.8'	163°31.1'	N 16°42.7'	5°03.9'	11.4'	S 18°45.2'	2.7'	54.8'

Sun Aug 6, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.7' SD = 15.8'		SD = 15.0'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	314°43.3'	178°31.2'	N 16°42.0'	19°34.3'	11.4'	S 18°42.5'	2.8'	54.8'
1	329°45.7'	193°31.2'	N 16°41.3'	34°04.8'	11.4'	S 18°39.7'	2.9'	54.8'
2	344°48.2'	208°31.3'	N 16°40.6'	48°35.2'	11.4'	S 18°36.8'	3.0'	54.8'
3	359°50.7'	223°31.4'	N 16°39.9'	63°05.6'	11.4'	S 18°33.8'	3.1'	54.9'
4	14°53.1'	238°31.4'	N 16°39.2'	77°36.0'	11.4'	S 18°30.7'	3.2'	54.9'
5	29°55.6'	253°31.5'	N 16°38.5'	92°06.4'	11.4'	S 18°27.5'	3.3'	54.9'
6	44°58.1'	268°31.6'	N 16°37.9'	106°36.8'	11.4'	S 18°24.3'	3.4'	54.9'
7	60°00.5'	283°31.7'	N 16°37.2'	121°07.2'	11.4'	S 18°20.9'	3.5'	54.9'
8	75°03.0'	298°31.7'	N 16°36.5'	135°37.6'	11.4'	S 18°17.4'	3.5'	54.9'
9	90°05.4'	313°31.8'	N 16°35.8'	150°08.0'	11.4'	S 18°13.9'	3.6'	55.0'
10	105°07.9'	328°31.9'	N 16°35.1'	164°38.4'	11.4'	S 18°10.3'	3.7'	55.0'
11	120°10.4'	343°32.0'	N 16°34.4'	179°08.8'	11.4'	S 18°06.5'	3.8'	55.0'
12	135°12.8'	358°32.0'	N 16°33.7'	193°39.2'	11.4'	S 18°02.7'	3.9'	55.0'
13	150°15.3'	13°32.1'	N 16°33.0'	208°09.7'	11.4'	S 17°58.8'	4.0'	55.0'
14	165°17.8'	28°32.2'	N 16°32.3'	222°40.1'	11.4'	S 17°54.8'	4.1'	55.0'
15	180°20.2'	43°32.2'	N 16°31.6'	237°10.5'	11.4'	S 17°50.7'	4.2'	55.1'
16	195°22.7'	58°32.3'	N 16°30.9'	251°40.9'	11.4'	S 17°46.6'	4.3'	55.1'
17	210°25.2'	73°32.4'	N 16°30.2'	266°11.3'	11.4'	S 17°42.3'	4.4'	55.1'
18	225°27.6'	88°32.5'	N 16°29.5'	280°41.8'	11.4'	S 17°37.9'	4.4'	55.1'
19	240°30.1'	103°32.5'	N 16°28.8'	295°12.2'	11.4'	S 17°33.5'	4.5'	55.1'
20	255°32.6'	118°32.6'	N 16°28.1'	309°42.7'	11.4'	S 17°29.0'	4.6'	55.1'
21	270°35.0'	133°32.7'	N 16°27.4'	324°13.1'	11.5'	S 17°24.3'	4.7'	55.2'
22	285°37.5'	148°32.8'	N 16°26.8'	338°43.6'	11.5'	S 17°19.6'	4.8'	55.2'
23	300°39.9'	163°32.8'	N 16°26.1'	353°14.0'	11.5'	S 17°14.8'	4.9'	55.2'

Mon Aug 7, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.7' SD = 15.8'		SD = 15.1'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	315°42.4'	178°32.9'	N 16°25.4'	7°44.5'	11.5'	S 17°10.0'	5.0'	55.2'
1	330°44.9'	193°33.0'	N 16°24.7'	22°15.0'	11.5'	S 17°05.0'	5.1'	55.2'
2	345°47.3'	208°33.1'	N 16°24.0'	36°45.5'	11.5'	S 16°59.9'	5.1'	55.3'
3	0°49.8'	223°33.2'	N 16°23.3'	51°15.9'	11.5'	S 16°54.8'	5.2'	55.3'
4	15°52.3'	238°33.2'	N 16°22.6'	65°46.4'	11.5'	S 16°49.6'	5.3'	55.3'
5	30°54.7'	253°33.3'	N 16°21.9'	80°16.9'	11.5'	S 16°44.2'	5.4'	55.3'
6	45°57.2'	268°33.4'	N 16°21.2'	94°47.5'	11.5'	S 16°38.8'	5.5'	55.3'
7	60°59.7'	283°33.5'	N 16°20.5'	109°18.0'	11.5'	S 16°33.4'	5.6'	55.3'
8	76°02.1'	298°33.5'	N 16°19.8'	123°48.5'	11.5'	S 16°27.8'	5.7'	55.4'
9	91°04.6'	313°33.6'	N 16°19.1'	138°19.1'	11.5'	S 16°22.1'	5.7'	55.4'
10	106°07.1'	328°33.7'	N 16°18.3'	152°49.6'	11.6'	S 16°16.4'	5.8'	55.4'
11	121°09.5'	343°33.8'	N 16°17.6'	167°20.2'	11.6'	S 16°10.6'	5.9'	55.4'
12	136°12.0'	358°33.9'	N 16°16.9'	181°50.7'	11.6'	S 16°04.7'	6.0'	55.4'
13	151°14.4'	13°33.9'	N 16°16.2'	196°21.3'	11.6'	S 15°58.7'	6.1'	55.5'
14	166°16.9'	28°34.0'	N 16°15.5'	210°51.9'	11.6'	S 15°52.6'	6.2'	55.5'
15	181°19.4'	43°34.1'	N 16°14.8'	225°22.5'	11.6'	S 15°46.4'	6.2'	55.5'
16	196°21.8'	58°34.2'	N 16°14.1'	239°53.1'	11.6'	S 15°40.2'	6.3'	55.5'
17	211°24.3'	73°34.3'	N 16°13.4'	254°23.7'	11.6'	S 15°33.9'	6.4'	55.5'
18	226°26.8'	88°34.3'	N 16°12.7'	268°54.3'	11.6'	S 15°27.5'	6.5'	55.6'
19	241°29.2'	103°34.4'	N 16°12.0'	283°25.0'	11.7'	S 15°21.0'	6.6'	55.6'
20	256°31.7'	118°34.5'	N 16°11.3'	297°55.6'	11.7'	S 15°14.5'	6.6'	55.6'
21	271°34.2'	133°34.6'	N 16°10.6'	312°26.3'	11.7'	S 15°07.8'	6.7'	55.6'
22	286°36.6'	148°34.7'	N 16°09.9'	326°57.0'	11.7'	S 15°01.1'	6.8'	55.6'
23	301°39.1'	163°34.7'	N 16°09.2'	341°27.7'	11.7'	S 14°54.3'	6.9'	55.7'

Tue Aug 8, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.7' SD = 15.8'		SD = 15.2'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	316°41.5'	178°34.8'	N 16°08.5'	355°58.4'	11.7'	S 14°47.4'	6.9'	55.7'
1	331°44.0'	193°34.9'	N 16°07.8'	10°29.1'	11.7'	S 14°40.5'	7.0'	55.7'
2	346°46.5'	208°35.0'	N 16°07.0'	24°59.8'	11.7'	S 14°33.5'	7.1'	55.7'
3	1°48.9'	223°35.1'	N 16°06.3'	39°30.5'	11.7'	S 14°26.4'	7.2'	55.7'
4	16°51.4'	238°35.2'	N 16°05.6'	54°01.3'	11.8'	S 14°19.2'	7.3'	55.8'
5	31°53.9'	253°35.2'	N 16°04.9'	68°32.0'	11.8'	S 14°11.9'	7.3'	55.8'
6	46°56.3'	268°35.3'	N 16°04.2'	83°02.8'	11.8'	S 14°04.6'	7.4'	55.8'
7	61°58.8'	283°35.4'	N 16°03.5'	97°33.6'	11.8'	S 13°57.2'	7.5'	55.8'
8	77°01.3'	298°35.5'	N 16°02.8'	112°04.4'	11.8'	S 13°49.7'	7.5'	55.8'
9	92°03.7'	313°35.6'	N 16°02.1'	126°35.2'	11.8'	S 13°42.2'	7.6'	55.9'
10	107°06.2'	328°35.7'	N 16°01.3'	141°06.0'	11.8'	S 13°34.6'	7.7'	55.9'
11	122°08.7'	343°35.7'	N 16°00.6'	155°36.8'	11.8'	S 13°26.9'	7.8'	55.9'
12	137°11.1'	358°35.8'	N 15°59.9'	170°07.6'	11.9'	S 13°19.1'	7.8'	55.9'
13	152°13.6'	13°35.9'	N 15°59.2'	184°38.5'	11.9'	S 13°11.3'	7.9'	55.9'
14	167°16.0'	28°36.0'	N 15°58.5'	199°09.4'	11.9'	S 13°03.4'	8.0'	56.0'
15	182°18.5'	43°36.1'	N 15°57.8'	213°40.2'	11.9'	S 12°55.4'	8.0'	56.0'
16	197°21.0'	58°36.2'	N 15°57.1'	228°11.1'	11.9'	S 12°47.4'	8.1'	56.0'
17	212°23.4'	73°36.3'	N 15°56.3'	242°42.0'	11.9'	S 12°39.3'	8.2'	56.0'
18	227°25.9'	88°36.3'	N 15°55.6'	257°12.9'	11.9'	S 12°31.1'	8.2'	56.0'
19	242°28.4'	103°36.4'	N 15°54.9'	271°43.8'	11.9'	S 12°22.9'	8.3'	56.1'
20	257°30.8'	118°36.5'	N 15°54.2'	286°14.8'	11.9'	S 12°14.6'	8.4'	56.1'
21	272°33.3'	133°36.6'	N 15°53.5'	300°45.7'	12.0'	S 12°06.2'	8.4'	56.1'
22	287°35.8'	148°36.7'	N 15°52.8'	315°16.7'	12.0'	S 11°57.7'	8.5'	56.1'
23	302°38.2'	163°36.8'	N 15°52.0'	329°47.6'	12.0'	S 11°49.2'	8.6'	56.1'

Wed Aug 9, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.7' SD = 15.8'		SD = 15.4'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	317°40.7'	178°36.9'	N 15°51.3'	344°18.6'	12.0'	S 11°40.7'	8.6'	56.2'
1	332°43.2'	193°37.0'	N 15°50.6'	358°49.6'	12.0'	S 11°32.0'	8.7'	56.2'
2	347°45.6'	208°37.0'	N 15°49.9'	13°20.6'	12.0'	S 11°23.3'	8.8'	56.2'
3	2°48.1'	223°37.1'	N 15°49.2'	27°51.6'	12.0'	S 11°14.6'	8.8'	56.2'
4	17°50.5'	238°37.2'	N 15°48.4'	42°22.6'	12.0'	S 11°05.8'	8.9'	56.2'
5	32°53.0'	253°37.3'	N 15°47.7'	56°53.7'	12.0'	S 10°56.9'	8.9'	56.3'
6	47°55.5'	268°37.4'	N 15°47.0'	71°24.7'	12.0'	S 10°48.0'	9.0'	56.3'
7	62°57.9'	283°37.5'	N 15°46.3'	85°55.8'	12.1'	S 10°39.0'	9.1'	56.3'
8	78°00.4'	298°37.6'	N 15°45.5'	100°26.8'	12.1'	S 10°29.9'	9.1'	56.3'
9	93°02.9'	313°37.7'	N 15°44.8'	114°57.9'	12.1'	S 10°20.8'	9.2'	56.3'
10	108°05.3'	328°37.8'	N 15°44.1'	129°29.0'	12.1'	S 10°11.6'	9.2'	56.4'
11	123°07.8'	343°37.9'	N 15°43.4'	144°00.0'	12.1'	S 10°02.4'	9.3'	56.4'
12	138°10.3'	358°38.0'	N 15°42.6'	158°31.1'	12.1'	S 9°53.1'	9.3'	56.4'
13	153°12.7'	13°38.0'	N 15°41.9'	173°02.2'	12.1'	S 9°43.8'	9.4'	56.4'
14	168°15.2'	28°38.1'	N 15°41.2'	187°33.3'	12.1'	S 9°34.4'	9.4'	56.4'
15	183°17.6'	43°38.2'	N 15°40.5'	202°04.5'	12.1'	S 9°25.0'	9.5'	56.5'
16	198°20.1'	58°38.3'	N 15°39.7'	216°35.6'	12.1'	S 9°15.5'	9.5'	56.5'
17	213°22.6'	73°38.4'	N 15°39.0'	231°06.7'	12.1'	S 9°05.9'	9.6'	56.5'
18	228°25.0'	88°38.5'	N 15°38.3'	245°37.9'	12.1'	S 8°56.4'	9.6'	56.5'
19	243°27.5'	103°38.6'	N 15°37.6'	260°09.0'	12.2'	S 8°46.7'	9.7'	56.5'
20	258°30.0'	118°38.7'	N 15°36.8'	274°40.2'	12.2'	S 8°37.0'	9.7'	56.6'
21	273°32.4'	133°38.8'	N 15°36.1'	289°11.3'	12.2'	S 8°27.3'	9.8'	56.6'
22	288°34.9'	148°38.9'	N 15°35.4'	303°42.5'	12.2'	S 8°17.5'	9.8'	56.6'
23	303°37.4'	163°39.0'	N 15°34.6'	318°13.6'	12.2'	S 8°07.6'	9.9'	56.6'

Thu Aug 10, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.7' SD = 15.8'		SD = 15.5'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	318°39.8'	178°39.1'	N 15°33.9'	332°44.8'	12.2'	S 7°57.7'	9.9'	56.7'
1	333°42.3'	193°39.2'	N 15°33.2'	347°16.0'	12.2'	S 7°47.8'	10.0'	56.7'
2	348°44.8'	208°39.3'	N 15°32.4'	1°47.2'	12.2'	S 7°37.8'	10.0'	56.7'
3	3°47.2'	223°39.3'	N 15°31.7'	16°18.3'	12.2'	S 7°27.8'	10.1'	56.7'
4	18°49.7'	238°39.4'	N 15°31.0'	30°49.5'	12.2'	S 7°17.8'	10.1'	56.7'
5	33°52.1'	253°39.5'	N 15°30.3'	45°20.7'	12.2'	S 7°07.6'	10.1'	56.8'
6	48°54.6'	268°39.6'	N 15°29.5'	59°51.9'	12.2'	S 6°57.5'	10.2'	56.8'
7	63°57.1'	283°39.7'	N 15°28.8'	74°23.1'	12.2'	S 6°47.3'	10.2'	56.8'
8	78°59.5'	298°39.8'	N 15°28.1'	88°54.3'	12.2'	S 6°37.1'	10.3'	56.8'
9	94°02.0'	313°39.9'	N 15°27.3'	103°25.5'	12.2'	S 6°26.8'	10.3'	56.8'
10	109°04.5'	328°40.0'	N 15°26.6'	117°56.7'	12.2'	S 6°16.5'	10.3'	56.9'
11	124°06.9'	343°40.1'	N 15°25.8'	132°27.9'	12.2'	S 6°06.2'	10.4'	56.9'
12	139°09.4'	358°40.2'	N 15°25.1'	146°59.1'	12.2'	S 5°55.8'	10.4'	56.9'
13	154°11.9'	13°40.3'	N 15°24.4'	161°30.3'	12.2'	S 5°45.4'	10.5'	56.9'
14	169°14.3'	28°40.4'	N 15°23.6'	176°01.4'	12.2'	S 5°34.9'	10.5'	56.9'
15	184°16.8'	43°40.5'	N 15°22.9'	190°32.6'	12.2'	S 5°24.4'	10.5'	57.0'
16	199°19.3'	58°40.6'	N 15°22.2'	205°03.8'	12.2'	S 5°13.9'	10.6'	57.0'
17	214°21.7'	73°40.7'	N 15°21.4'	219°35.0'	12.2'	S 5°03.3'	10.6'	57.0'
18	229°24.2'	88°40.8'	N 15°20.7'	234°06.2'	12.2'	S 4°52.8'	10.6'	57.0'
19	244°26.6'	103°40.9'	N 15°20.0'	248°37.4'	12.2'	S 4°42.1'	10.6'	57.0'
20	259°29.1'	118°41.0'	N 15°19.2'	263°08.5'	12.2'	S 4°31.5'	10.7'	57.1'
21	274°31.6'	133°41.1'	N 15°18.5'	277°39.7'	12.2'	S 4°20.8'	10.7'	57.1'
22	289°34.0'	148°41.2'	N 15°17.7'	292°10.8'	12.2'	S 4°10.1'	10.7'	57.1'
23	304°36.5'	163°41.3'	N 15°17.0'	306°42.0'	12.1'	S 3°59.4'	10.8'	57.1'

Fri Aug 11, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.7' SD = 15.8'		SD = 15.7'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	319°39.0'	178°41.4'	N 15°16.3'	321°13.1'	12.1'	S 3°48.6'	10.8'	57.2'
1	334°41.4'	193°41.5'	N 15°15.5'	335°44.3'	12.1'	S 3°37.8'	10.8'	57.2'
2	349°43.9'	208°41.6'	N 15°14.8'	350°15.4'	12.1'	S 3°27.0'	10.8'	57.2'
3	4°46.4'	223°41.7'	N 15°14.0'	4°46.5'	12.1'	S 3°16.2'	10.9'	57.2'
4	19°48.8'	238°41.8'	N 15°13.3'	19°17.6'	12.1'	S 3°05.3'	10.9'	57.2'
5	34°51.3'	253°41.9'	N 15°12.5'	33°48.8'	12.1'	S 2°54.4'	10.9'	57.3'
6	49°53.7'	268°42.0'	N 15°11.8'	48°19.8'	12.1'	S 2°43.5'	10.9'	57.3'
7	64°56.2'	283°42.1'	N 15°11.1'	62°50.9'	12.1'	S 2°32.6'	10.9'	57.3'
8	79°58.7'	298°42.2'	N 15°10.3'	77°22.0'	12.1'	S 2°21.7'	11.0'	57.3'
9	95°01.1'	313°42.3'	N 15°09.6'	91°53.1'	12.0'	S 2°10.7'	11.0'	57.3'
10	110°03.6'	328°42.4'	N 15°08.8'	106°24.1'	12.0'	S 1°59.7'	11.0'	57.4'
11	125°06.1'	343°42.5'	N 15°08.1'	120°55.1'	12.0'	S 1°48.7'	11.0'	57.4'
12	140°08.5'	358°42.6'	N 15°07.3'	135°26.2'	12.0'	S 1°37.7'	11.0'	57.4'
13	155°11.0'	13°42.7'	N 15°06.6'	149°57.2'	12.0'	S 1°26.7'	11.0'	57.4'
14	170°13.5'	28°42.8'	N 15°05.8'	164°28.1'	12.0'	S 1°15.7'	11.1'	57.4'
15	185°15.9'	43°42.9'	N 15°05.1'	178°59.1'	12.0'	S 1°04.6'	11.1'	57.5'
16	200°18.4'	58°43.0'	N 15°04.3'	193°30.1'	11.9'	S 0°53.5'	11.1'	57.5'
17	215°20.9'	73°43.1'	N 15°03.6'	208°01.0'	11.9'	S 0°42.5'	11.1'	57.5'
18	230°23.3'	88°43.2'	N 15°02.9'	222°31.9'	11.9'	S 0°31.4'	11.1'	57.5'
19	245°25.8'	103°43.3'	N 15°02.1'	237°02.8'	11.9'	S 0°20.3'	11.1'	57.5'
20	260°28.2'	118°43.4'	N 15°01.4'	251°33.7'	11.9'	S 0°09.2'	11.1'	57.6'
21	275°30.7'	133°43.6'	N 15°00.6'	266°04.6'	11.8'	N 0°02.0'	11.1'	57.6'
22	290°33.2'	148°43.7'	N 14°59.9'	280°35.4'	11.8'	N 0°13.1'	11.1'	57.6'
23	305°35.6'	163°43.8'	N 14°59.1'	295°06.2'	11.8'	N 0°24.2'	11.1'	57.6'

Sat Aug 12, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.8' SD = 15.8'		SD = 15.8'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	320°38.1'	178°43.9'	N 14°58.4'	309°37.1'	11.8'	N 0°35.4'	11.1'	57.6'
1	335°40.6'	193°44.0'	N 14°57.6'	324°07.8'	11.8'	N 0°46.5'	11.1'	57.7'
2	350°43.0'	208°44.1'	N 14°56.9'	338°38.6'	11.7'	N 0°57.6'	11.1'	57.7'
3	5°45.5'	223°44.2'	N 14°56.1'	353°09.3'	11.7'	N 1°08.8'	11.1'	57.7'
4	20°48.0'	238°44.3'	N 14°55.4'	7°40.0'	11.7'	N 1°19.9'	11.1'	57.7'
5	35°50.4'	253°44.4'	N 14°54.6'	22°10.7'	11.7'	N 1°31.1'	11.1'	57.7'
6	50°52.9'	268°44.5'	N 14°53.8'	36°41.4'	11.6'	N 1°42.2'	11.1'	57.8'
7	65°55.3'	283°44.6'	N 14°53.1'	51°12.0'	11.6'	N 1°53.4'	11.1'	57.8'
8	80°57.8'	298°44.7'	N 14°52.3'	65°42.6'	11.6'	N 2°04.5'	11.1'	57.8'
9	96°00.3'	313°44.8'	N 14°51.6'	80°13.2'	11.5'	N 2°15.6'	11.1'	57.8'
10	111°02.7'	328°44.9'	N 14°50.8'	94°43.7'	11.5'	N 2°26.8'	11.1'	57.9'
11	126°05.2'	343°45.1'	N 14°50.1'	109°14.2'	11.5'	N 2°37.9'	11.1'	57.9'
12	141°07.7'	358°45.2'	N 14°49.3'	123°44.7'	11.5'	N 2°49.0'	11.1'	57.9'
13	156°10.1'	13°45.3'	N 14°48.6'	138°15.2'	11.4'	N 3°00.1'	11.1'	57.9'
14	171°12.6'	28°45.4'	N 14°47.8'	152°45.6'	11.4'	N 3°11.2'	11.1'	57.9'
15	186°15.1'	43°45.5'	N 14°47.0'	167°16.0'	11.4'	N 3°22.3'	11.1'	58.0'
16	201°17.5'	58°45.6'	N 14°46.3'	181°46.4'	11.3'	N 3°33.4'	11.1'	58.0'
17	216°20.0'	73°45.7'	N 14°45.5'	196°16.7'	11.3'	N 3°44.5'	11.1'	58.0'
18	231°22.5'	88°45.8'	N 14°44.8'	210°47.0'	11.3'	N 3°55.5'	11.0'	58.0'
19	246°24.9'	103°45.9'	N 14°44.0'	225°17.3'	11.2'	N 4°06.6'	11.0'	58.0'
20	261°27.4'	118°46.0'	N 14°43.3'	239°47.5'	11.2'	N 4°17.6'	11.0'	58.1'
21	276°29.8'	133°46.1'	N 14°42.5'	254°17.7'	11.2'	N 4°28.6'	11.0'	58.1'
22	291°32.3'	148°46.3'	N 14°41.7'	268°47.8'	11.1'	N 4°39.6'	11.0'	58.1'
23	306°34.8'	163°46.4'	N 14°41.0'	283°17.9'	11.1'	N 4°50.6'	11.0'	58.1'

Sun Aug 13, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.8' SD = 15.8'		SD = 15.9'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	321°37.2'	178°46.5'	N 14°40.2'	297°48.0'	11.0'	N 5°01.6'	10.9'	58.1'
1	336°39.7'	193°46.6'	N 14°39.5'	312°18.1'	11.0'	N 5°12.5'	10.9'	58.2'
2	351°42.2'	208°46.7'	N 14°38.7'	326°48.1'	11.0'	N 5°23.4'	10.9'	58.2'
3	6°44.6'	223°46.8'	N 14°37.9'	341°18.0'	10.9'	N 5°34.3'	10.9'	58.2'
4	21°47.1'	238°46.9'	N 14°37.2'	355°47.9'	10.9'	N 5°45.2'	10.9'	58.2'
5	36°49.6'	253°47.0'	N 14°36.4'	10°17.8'	10.8'	N 5°56.1'	10.8'	58.2'
6	51°52.0'	268°47.2'	N 14°35.6'	24°47.7'	10.8'	N 6°06.9'	10.8'	58.3'
7	66°54.5'	283°47.3'	N 14°34.9'	39°17.5'	10.8'	N 6°17.7'	10.8'	58.3'
8	81°56.9'	298°47.4'	N 14°34.1'	53°47.2'	10.7'	N 6°28.5'	10.7'	58.3'
9	96°59.4'	313°47.5'	N 14°33.4'	68°16.9'	10.7'	N 6°39.2'	10.7'	58.3'
10	112°01.9'	328°47.6'	N 14°32.6'	82°46.6'	10.6'	N 6°49.9'	10.7'	58.3'
11	127°04.3'	343°47.7'	N 14°31.8'	97°16.2'	10.6'	N 7°00.6'	10.7'	58.4'
12	142°06.8'	358°47.8'	N 14°31.1'	111°45.8'	10.5'	N 7°11.3'	10.6'	58.4'
13	157°09.3'	13°47.9'	N 14°30.3'	126°15.3'	10.5'	N 7°21.9'	10.6'	58.4'
14	172°11.7'	28°48.1'	N 14°29.5'	140°44.8'	10.4'	N 7°32.5'	10.6'	58.4'
15	187°14.2'	43°48.2'	N 14°28.8'	155°14.2'	10.4'	N 7°43.1'	10.5'	58.4'
16	202°16.7'	58°48.3'	N 14°28.0'	169°43.6'	10.3'	N 7°53.6'	10.5'	58.4'
17	217°19.1'	73°48.4'	N 14°27.2'	184°12.9'	10.3'	N 8°04.1'	10.4'	58.5'
18	232°21.6'	88°48.5'	N 14°26.5'	198°42.2'	10.2'	N 8°14.5'	10.4'	58.5'
19	247°24.1'	103°48.6'	N 14°25.7'	213°11.5'	10.2'	N 8°24.9'	10.4'	58.5'
20	262°26.5'	118°48.8'	N 14°24.9'	227°40.6'	10.1'	N 8°35.3'	10.3'	58.5'
21	277°29.0'	133°48.9'	N 14°24.2'	242°09.8'	10.1'	N 8°45.6'	10.3'	58.5'
22	292°31.4'	148°49.0'	N 14°23.4'	256°38.9'	10.0'	N 8°55.9'	10.2'	58.6'
23	307°33.9'	163°49.1'	N 14°22.6'	271°07.9'	10.0'	N 9°06.1'	10.2'	58.6'

Mon Aug 14, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.8' SD = 15.8'		SD = 16.0'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	322°36.4'	178°49.2'	N 14°21.8'	285°36.9'	9.9'	N 9°16.3'	10.1'	58.6'
1	337°38.8'	193°49.3'	N 14°21.1'	300°05.8'	9.9'	N 9°26.5'	10.1'	58.6'
2	352°41.3'	208°49.5'	N 14°20.3'	314°34.7'	9.8'	N 9°36.6'	10.1'	58.6'
3	7°43.8'	223°49.6'	N 14°19.5'	329°03.5'	9.8'	N 9°46.6'	10.0'	58.7'
4	22°46.2'	238°49.7'	N 14°18.8'	343°32.3'	9.7'	N 9°56.6'	10.0'	58.7'
5	37°48.7'	253°49.8'	N 14°18.0'	358°01.0'	9.7'	N 10°06.6'	9.9'	58.7'
6	52°51.2'	268°49.9'	N 14°17.2'	12°29.6'	9.6'	N 10°16.5'	9.9'	58.7'
7	67°53.6'	283°50.0'	N 14°16.4'	26°58.2'	9.5'	N 10°26.3'	9.8'	58.7'
8	82°56.1'	298°50.2'	N 14°15.7'	41°26.8'	9.5'	N 10°36.1'	9.7'	58.8'
9	97°58.6'	313°50.3'	N 14°14.9'	55°55.3'	9.4'	N 10°45.9'	9.7'	58.8'
10	113°01.0'	328°50.4'	N 14°14.1'	70°23.7'	9.4'	N 10°55.5'	9.6'	58.8'
11	128°03.5'	343°50.5'	N 14°13.3'	84°52.1'	9.3'	N 11°05.2'	9.6'	58.8'
12	143°05.9'	358°50.6'	N 14°12.6'	99°20.4'	9.3'	N 11°14.7'	9.5'	58.8'
13	158°08.4'	13°50.8'	N 14°11.8'	113°48.6'	9.2'	N 11°24.3'	9.5'	58.8'
14	173°10.9'	28°50.9'	N 14°11.0'	128°16.8'	9.1'	N 11°33.7'	9.4'	58.9'
15	188°13.3'	43°51.0'	N 14°10.2'	142°45.0'	9.1'	N 11°43.1'	9.3'	58.9'
16	203°15.8'	58°51.1'	N 14°09.5'	157°13.1'	9.0'	N 11°52.4'	9.3'	58.9'
17	218°18.3'	73°51.2'	N 14°08.7'	171°41.1'	9.0'	N 12°01.7'	9.2'	58.9'
18	233°20.7'	88°51.4'	N 14°07.9'	186°09.0'	8.9'	N 12°10.9'	9.1'	58.9'
19	248°23.2'	103°51.5'	N 14°07.1'	200°36.9'	8.8'	N 12°20.0'	9.1'	58.9'
20	263°25.7'	118°51.6'	N 14°06.4'	215°04.8'	8.8'	N 12°29.1'	9.0'	59.0'
21	278°28.1'	133°51.7'	N 14°05.6'	229°32.5'	8.7'	N 12°38.1'	8.9'	59.0'
22	293°30.6'	148°51.8'	N 14°04.8'	244°00.3'	8.7'	N 12°47.0'	8.9'	59.0'
23	308°33.0'	163°52.0'	N 14°04.0'	258°27.9'	8.6'	N 12°55.9'	8.8'	59.0'

Tue Aug 15, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.8' SD = 15.8'		SD = 16.2'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	323°35.5'	178°52.1'	N 14°03.2'	272°55.5'	8.5'	N 13°04.6'	8.7'	59.0'
1	338°38.0'	193°52.2'	N 14°02.5'	287°23.0'	8.5'	N 13°13.4'	8.6'	59.1'
2	353°40.4'	208°52.3'	N 14°01.7'	301°50.5'	8.4'	N 13°22.0'	8.6'	59.1'
3	8°42.9'	223°52.5'	N 14°00.9'	316°17.9'	8.3'	N 13°30.6'	8.5'	59.1'
4	23°45.4'	238°52.6'	N 14°00.1'	330°45.3'	8.3'	N 13°39.0'	8.4'	59.1'
5	38°47.8'	253°52.7'	N 13°59.3'	345°12.6'	8.2'	N 13°47.4'	8.3'	59.1'
6	53°50.3'	268°52.8'	N 13°58.6'	359°39.8'	8.2'	N 13°55.8'	8.2'	59.1'
7	68°52.8'	283°53.0'	N 13°57.8'	14°06.9'	8.1'	N 14°04.0'	8.2'	59.2'
8	83°55.2'	298°53.1'	N 13°57.0'	28°34.0'	8.0'	N 14°12.2'	8.1'	59.2'
9	98°57.7'	313°53.2'	N 13°56.2'	43°01.1'	8.0'	N 14°20.3'	8.0'	59.2'
10	114°00.2'	328°53.3'	N 13°55.4'	57°28.1'	7.9'	N 14°28.3'	7.9'	59.2'
11	129°02.6'	343°53.5'	N 13°54.6'	71°55.0'	7.8'	N 14°36.2'	7.8'	59.2'
12	144°05.1'	358°53.6'	N 13°53.9'	86°21.8'	7.8'	N 14°44.0'	7.7'	59.2'
13	159°07.5'	13°53.7'	N 13°53.1'	100°48.6'	7.7'	N 14°51.8'	7.7'	59.3'
14	174°10.0'	28°53.8'	N 13°52.3'	115°15.3'	7.7'	N 14°59.4'	7.6'	59.3'
15	189°12.5'	43°54.0'	N 13°51.5'	129°42.0'	7.6'	N 15°07.0'	7.5'	59.3'
16	204°14.9'	58°54.1'	N 13°50.7'	144°08.6'	7.5'	N 15°14.5'	7.4'	59.3'
17	219°17.4'	73°54.2'	N 13°49.9'	158°35.1'	7.5'	N 15°21.9'	7.3'	59.3'
18	234°19.9'	88°54.3'	N 13°49.1'	173°01.6'	7.4'	N 15°29.2'	7.2'	59.3'
19	249°22.3'	103°54.5'	N 13°48.4'	187°28.0'	7.4'	N 15°36.4'	7.1'	59.3'
20	264°24.8'	118°54.6'	N 13°47.6'	201°54.4'	7.3'	N 15°43.5'	7.0'	59.4'
21	279°27.3'	133°54.7'	N 13°46.8'	216°20.7'	7.2'	N 15°50.5'	6.9'	59.4'
22	294°29.7'	148°54.8'	N 13°46.0'	230°46.9'	7.2'	N 15°57.4'	6.8'	59.4'
23	309°32.2'	163°55.0'	N 13°45.2'	245°13.1'	7.1'	N 16°04.2'	6.7'	59.4'

Wed Aug 16, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.8' SD = 15.8'		SD = 16.2'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	324°34.7'	178°55.1'	N 13°44.4'	259°39.2'	7.1'	N 16°11.0'	6.6'	59.4'
1	339°37.1'	193°55.2'	N 13°43.6'	274°05.3'	7.0'	N 16°17.6'	6.5'	59.4'
2	354°39.6'	208°55.3'	N 13°42.8'	288°31.3'	6.9'	N 16°24.1'	6.4'	59.4'
3	9°42.0'	223°55.5'	N 13°42.0'	302°57.2'	6.9'	N 16°30.5'	6.3'	59.5'
4	24°44.5'	238°55.6'	N 13°41.3'	317°23.1'	6.8'	N 16°36.8'	6.2'	59.5'
5	39°47.0'	253°55.7'	N 13°40.5'	331°48.9'	6.8'	N 16°43.0'	6.1'	59.5'
6	54°49.4'	268°55.9'	N 13°39.7'	346°14.7'	6.7'	N 16°49.2'	6.0'	59.5'
7	69°51.9'	283°56.0'	N 13°38.9'	0°40.4'	6.6'	N 16°55.2'	5.9'	59.5'
8	84°54.4'	298°56.1'	N 13°38.1'	15°06.0'	6.6'	N 17°01.1'	5.8'	59.5'
9	99°56.8'	313°56.2'	N 13°37.3'	29°31.6'	6.5'	N 17°06.8'	5.7'	59.5'
10	114°59.3'	328°56.4'	N 13°36.5'	43°57.1'	6.5'	N 17°12.5'	5.6'	59.5'
11	130°01.8'	343°56.5'	N 13°35.7'	58°22.6'	6.4'	N 17°18.1'	5.5'	59.6'
12	145°04.2'	358°56.6'	N 13°34.9'	72°48.1'	6.4'	N 17°23.6'	5.3'	59.6'
13	160°06.7'	13°56.8'	N 13°34.1'	87°13.4'	6.3'	N 17°28.9'	5.2'	59.6'
14	175°09.2'	28°56.9'	N 13°33.3'	101°38.8'	6.3'	N 17°34.1'	5.1'	59.6'
15	190°11.6'	43°57.0'	N 13°32.5'	116°04.0'	6.2'	N 17°39.3'	5.0'	59.6'
16	205°14.1'	58°57.2'	N 13°31.7'	130°29.2'	6.2'	N 17°44.3'	4.9'	59.6'
17	220°16.5'	73°57.3'	N 13°30.9'	144°54.4'	6.1'	N 17°49.2'	4.8'	59.6'
18	235°19.0'	88°57.4'	N 13°30.2'	159°19.5'	6.1'	N 17°53.9'	4.7'	59.6'
19	250°21.5'	103°57.6'	N 13°29.4'	173°44.6'	6.0'	N 17°58.6'	4.5'	59.7'
20	265°23.9'	118°57.7'	N 13°28.6'	188°09.6'	6.0'	N 18°03.1'	4.4'	59.7'
21	280°26.4'	133°57.8'	N 13°27.8'	202°34.6'	5.9'	N 18°07.6'	4.3'	59.7'
22	295°28.9'	148°58.0'	N 13°27.0'	216°59.5'	5.9'	N 18°11.9'	4.2'	59.7'
23	310°31.3'	163°58.1'	N 13°26.2'	231°24.4'	5.8'	N 18°16.0'	4.1'	59.7'

Thu Aug 17, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.8' SD = 15.8'		SD = 16.3'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	325°33.8'	178°58.2'	N 13°25.4'	245°49.3'	5.8'	N 18°20.1'	3.9'	59.7'
1	340°36.3'	193°58.3'	N 13°24.6'	260°14.1'	5.8'	N 18°24.1'	3.8'	59.7'
2	355°38.7'	208°58.5'	N 13°23.8'	274°38.8'	5.7'	N 18°27.9'	3.7'	59.7'
3	10°41.2'	223°58.6'	N 13°23.0'	289°03.5'	5.7'	N 18°31.6'	3.6'	59.7'
4	25°43.6'	238°58.7'	N 13°22.2'	303°28.2'	5.6'	N 18°35.1'	3.4'	59.7'
5	40°46.1'	253°58.9'	N 13°21.4'	317°52.8'	5.6'	N 18°38.6'	3.3'	59.7'
6	55°48.6'	268°59.0'	N 13°20.6'	332°17.4'	5.6'	N 18°41.9'	3.2'	59.8'
7	70°51.0'	283°59.2'	N 13°19.8'	346°42.0'	5.5'	N 18°45.1'	3.1'	59.8'
8	85°53.5'	298°59.3'	N 13°19.0'	1°06.5'	5.5'	N 18°48.2'	2.9'	59.8'
9	100°56.0'	313°59.4'	N 13°18.2'	15°31.0'	5.4'	N 18°51.1'	2.8'	59.8'
10	115°58.4'	328°59.6'	N 13°17.4'	29°55.4'	5.4'	N 18°53.9'	2.7'	59.8'
11	131°00.9'	343°59.7'	N 13°16.6'	44°19.8'	5.4'	N 18°56.6'	2.6'	59.8'
12	146°03.4'	358°59.8'	N 13°15.8'	58°44.2'	5.4'	N 18°59.2'	2.4'	59.8'
13	161°05.8'	13°60.0'	N 13°15.0'	73°08.6'	5.3'	N 19°01.6'	2.3'	59.8'
14	176°08.3'	29°00.1'	N 13°14.2'	87°32.9'	5.3'	N 19°03.9'	2.2'	59.8'
15	191°10.8'	44°00.2'	N 13°13.4'	101°57.2'	5.3'	N 19°06.1'	2.0'	59.8'
16	206°13.2'	59°00.4'	N 13°12.6'	116°21.5'	5.2'	N 19°08.1'	1.9'	59.8'
17	221°15.7'	74°00.5'	N 13°11.7'	130°45.7'	5.2'	N 19°10.0'	1.8'	59.8'
18	236°18.1'	89°00.6'	N 13°10.9'	145°09.9'	5.2'	N 19°11.8'	1.6'	59.8'
19	251°20.6'	104°00.8'	N 13°10.1'	159°34.1'	5.2'	N 19°13.5'	1.5'	59.8'
20	266°23.1'	119°00.9'	N 13°09.3'	173°58.3'	5.2'	N 19°15.0'	1.4'	59.8'
21	281°25.5'	134°01.1'	N 13°08.5'	188°22.5'	5.1'	N 19°16.4'	1.2'	59.9'
22	296°28.0'	149°01.2'	N 13°07.7'	202°46.6'	5.1'	N 19°17.6'	1.1'	59.9'
23	311°30.5'	164°01.3'	N 13°06.9'	217°10.7'	5.1'	N 19°18.7'	1.0'	59.9'

Fri Aug 18, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.8' SD = 15.8'		SD = 16.3'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	326°32.9'	179°01.5'	N 13°06.1'	231°34.8'	5.1'	N 19°19.7'	0.8'	59.9'
1	341°35.4'	194°01.6'	N 13°05.3'	245°58.9'	5.1'	N 19°20.6'	0.7'	59.9'
2	356°37.9'	209°01.7'	N 13°04.5'	260°23.0'	5.1'	N 19°21.3'	0.6'	59.9'
3	11°40.3'	224°01.9'	N 13°03.7'	274°47.0'	5.1'	N 19°21.9'	0.4'	59.9'
4	26°42.8'	239°02.0'	N 13°02.9'	289°11.1'	5.0'	N 19°22.3'	0.3'	59.9'
5	41°45.3'	254°02.2'	N 13°02.1'	303°35.1'	5.0'	N 19°22.6'	0.2'	59.9'
6	56°47.7'	269°02.3'	N 13°01.3'	317°59.2'	5.0'	N 19°22.8'	0.0'	59.9'
7	71°50.2'	284°02.4'	N 13°00.5'	332°23.2'	5.0'	N 19°22.9'	0.1'	59.9'
8	86°52.6'	299°02.6'	N 12°59.6'	346°47.2'	5.0'	N 19°22.8'	0.2'	59.9'
9	101°55.1'	314°02.7'	N 12°58.8'	1°11.2'	5.0'	N 19°22.5'	0.4'	59.9'
10	116°57.6'	329°02.9'	N 12°58.0'	15°35.3'	5.0'	N 19°22.2'	0.5'	59.9'
11	132°00.0'	344°03.0'	N 12°57.2'	29°59.3'	5.0'	N 19°21.7'	0.6'	59.9'
12	147°02.5'	359°03.1'	N 12°56.4'	44°23.3'	5.0'	N 19°21.1'	0.8'	59.9'
13	162°05.0'	14°03.3'	N 12°55.6'	58°47.3'	5.0'	N 19°20.3'	0.9'	59.9'
14	177°07.4'	29°03.4'	N 12°54.8'	73°11.3'	5.0'	N 19°19.4'	1.0'	59.9'
15	192°09.9'	44°03.6'	N 12°54.0'	87°35.4'	5.0'	N 19°18.4'	1.2'	59.9'
16	207°12.4'	59°03.7'	N 12°53.2'	101°59.4'	5.0'	N 19°17.2'	1.3'	59.9'
17	222°14.8'	74°03.8'	N 12°52.3'	116°23.5'	5.1'	N 19°15.9'	1.4'	59.9'
18	237°17.3'	89°04.0'	N 12°51.5'	130°47.5'	5.1'	N 19°14.5'	1.6'	59.9'
19	252°19.8'	104°04.1'	N 12°50.7'	145°11.6'	5.1'	N 19°12.9'	1.7'	59.9'
20	267°22.2'	119°04.3'	N 12°49.9'	159°35.6'	5.1'	N 19°11.2'	1.8'	59.9'
21	282°24.7'	134°04.4'	N 12°49.1'	173°59.7'	5.1'	N 19°09.4'	2.0'	59.9'
22	297°27.1'	149°04.5'	N 12°48.3'	188°23.8'	5.1'	N 19°07.4'	2.1'	59.9'
23	312°29.6'	164°04.7'	N 12°47.5'	202°48.0'	5.1'	N 19°05.3'	2.2'	59.9'

Sat Aug 19, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.8' SD = 15.8'		SD = 16.3'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	327°32.1'	179°04.8'	N 12°46.6'	217°12.1'	5.2'	N 19°03.1'	2.4'	59.9'
1	342°34.5'	194°05.0'	N 12°45.8'	231°36.3'	5.2'	N 19°00.7'	2.5'	59.9'
2	357°37.0'	209°05.1'	N 12°45.0'	246°00.4'	5.2'	N 18°58.2'	2.6'	59.9'
3	12°39.5'	224°05.3'	N 12°44.2'	260°24.6'	5.2'	N 18°55.6'	2.8'	59.9'
4	27°41.9'	239°05.4'	N 12°43.4'	274°48.9'	5.3'	N 18°52.8'	2.9'	59.8'
5	42°44.4'	254°05.5'	N 12°42.6'	289°13.1'	5.3'	N 18°50.0'	3.0'	59.8'
6	57°46.9'	269°05.7'	N 12°41.7'	303°37.4'	5.3'	N 18°46.9'	3.1'	59.8'
7	72°49.3'	284°05.8'	N 12°40.9'	318°01.7'	5.3'	N 18°43.8'	3.3'	59.8'
8	87°51.8'	299°06.0'	N 12°40.1'	332°26.0'	5.4'	N 18°40.5'	3.4'	59.8'
9	102°54.2'	314°06.1'	N 12°39.3'	346°50.4'	5.4'	N 18°37.1'	3.5'	59.8'
10	117°56.7'	329°06.3'	N 12°38.5'	1°14.8'	5.4'	N 18°33.6'	3.7'	59.8'
11	132°59.2'	344°06.4'	N 12°37.6'	15°39.2'	5.5'	N 18°29.9'	3.8'	59.8'
12	148°01.6'	359°06.6'	N 12°36.8'	30°03.7'	5.5'	N 18°26.2'	3.9'	59.8'
13	163°04.1'	14°06.7'	N 12°36.0'	44°28.2'	5.5'	N 18°22.3'	4.0'	59.8'
14	178°06.6'	29°06.9'	N 12°35.2'	58°52.7'	5.6'	N 18°18.2'	4.2'	59.8'
15	193°09.0'	44°07.0'	N 12°34.4'	73°17.3'	5.6'	N 18°14.1'	4.3'	59.8'
16	208°11.5'	59°07.1'	N 12°33.5'	87°41.9'	5.7'	N 18°09.8'	4.4'	59.8'
17	223°14.0'	74°07.3'	N 12°32.7'	102°06.5'	5.7'	N 18°05.4'	4.5'	59.8'
18	238°16.4'	89°07.4'	N 12°31.9'	116°31.2'	5.7'	N 18°00.9'	4.6'	59.7'
19	253°18.9'	104°07.6'	N 12°31.1'	130°56.0'	5.8'	N 17°56.3'	4.8'	59.7'
20	268°21.4'	119°07.7'	N 12°30.3'	145°20.7'	5.8'	N 17°51.5'	4.9'	59.7'
21	283°23.8'	134°07.9'	N 12°29.4'	159°45.6'	5.9'	N 17°46.6'	5.0'	59.7'
22	298°26.3'	149°08.0'	N 12°28.6'	174°10.4'	5.9'	N 17°41.6'	5.1'	59.7'
23	313°28.7'	164°08.2'	N 12°27.8'	188°35.3'	6.0'	N 17°36.5'	5.2'	59.7'

Sun Aug 20, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.8' SD = 15.8'		SD = 16.2'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	328°31.2'	179°08.3'	N 12°27.0'	203°00.3'	6.0'	N 17°31.3'	5.3'	59.7'
1	343°33.7'	194°08.5'	N 12°26.1'	217°25.3'	6.1'	N 17°25.9'	5.5'	59.7'
2	358°36.1'	209°08.6'	N 12°25.3'	231°50.4'	6.1'	N 17°20.5'	5.6'	59.7'
3	13°38.6'	224°08.8'	N 12°24.5'	246°15.5'	6.2'	N 17°14.9'	5.7'	59.6'
4	28°41.1'	239°08.9'	N 12°23.7'	260°40.7'	6.2'	N 17°09.2'	5.8'	59.6'
5	43°43.5'	254°09.1'	N 12°22.8'	275°05.9'	6.3'	N 17°03.4'	5.9'	59.6'
6	58°46.0'	269°09.2'	N 12°22.0'	289°31.1'	6.3'	N 16°57.5'	6.0'	59.6'
7	73°48.5'	284°09.4'	N 12°21.2'	303°56.5'	6.4'	N 16°51.5'	6.1'	59.6'
8	88°50.9'	299°09.5'	N 12°20.4'	318°21.8'	6.4'	N 16°45.3'	6.2'	59.6'
9	103°53.4'	314°09.7'	N 12°19.5'	332°47.3'	6.5'	N 16°39.1'	6.3'	59.6'
10	118°55.9'	329°09.8'	N 12°18.7'	347°12.8'	6.5'	N 16°32.8'	6.4'	59.5'
11	133°58.3'	344°10.0'	N 12°17.9'	1°38.3'	6.6'	N 16°26.3'	6.6'	59.5'
12	149°00.8'	359°10.1'	N 12°17.1'	16°03.9'	6.7'	N 16°19.8'	6.7'	59.5'
13	164°03.2'	14°10.3'	N 12°16.2'	30°29.6'	6.7'	N 16°13.1'	6.8'	59.5'
14	179°05.7'	29°10.4'	N 12°15.4'	44°55.3'	6.8'	N 16°06.3'	6.9'	59.5'
15	194°08.2'	44°10.6'	N 12°14.6'	59°21.1'	6.8'	N 15°59.5'	7.0'	59.5'
16	209°10.6'	59°10.7'	N 12°13.7'	73°46.9'	6.9'	N 15°52.5'	7.1'	59.5'
17	224°13.1'	74°10.9'	N 12°12.9'	88°12.8'	7.0'	N 15°45.5'	7.2'	59.4'
18	239°15.6'	89°11.0'	N 12°12.1'	102°38.8'	7.0'	N 15°38.3'	7.3'	59.4'
19	254°18.0'	104°11.2'	N 12°11.3'	117°04.9'	7.1'	N 15°31.1'	7.3'	59.4'
20	269°20.5'	119°11.3'	N 12°10.4'	131°30.9'	7.2'	N 15°23.7'	7.4'	59.4'
21	284°23.0'	134°11.5'	N 12°09.6'	145°57.1'	7.2'	N 15°16.3'	7.5'	59.4'
22	299°25.4'	149°11.6'	N 12°08.8'	160°23.3'	7.3'	N 15°08.7'	7.6'	59.3'
23	314°27.9'	164°11.8'	N 12°07.9'	174°49.6'	7.4'	N 15°01.1'	7.7'	59.3'

Mon Aug 21, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.8' SD = 15.8'		SD = 16.1'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	329°30.4'	179°11.9'	N 12°07.1'	189°16.0'	7.4'	N 14°53.4'	7.8'	59.3'
1	344°32.8'	194°12.1'	N 12°06.3'	203°42.4'	7.5'	N 14°45.6'	7.9'	59.3'
2	359°35.3'	209°12.2'	N 12°05.4'	218°08.9'	7.6'	N 14°37.7'	8.0'	59.3'
3	14°37.7'	224°12.4'	N 12°04.6'	232°35.4'	7.6'	N 14°29.7'	8.1'	59.2'
4	29°40.2'	239°12.5'	N 12°03.8'	247°02.1'	7.7'	N 14°21.6'	8.2'	59.2'
5	44°42.7'	254°12.7'	N 12°02.9'	261°28.7'	7.8'	N 14°13.5'	8.2'	59.2'
6	59°45.1'	269°12.8'	N 12°02.1'	275°55.5'	7.8'	N 14°05.3'	8.3'	59.2'
7	74°47.6'	284°13.0'	N 12°01.3'	290°22.3'	7.9'	N 13°56.9'	8.4'	59.2'
8	89°50.1'	299°13.2'	N 12°00.4'	304°49.2'	8.0'	N 13°48.6'	8.5'	59.1'
9	104°52.5'	314°13.3'	N 11°59.6'	319°16.2'	8.0'	N 13°40.1'	8.6'	59.1'
10	119°55.0'	329°13.5'	N 11°58.8'	333°43.2'	8.1'	N 13°31.5'	8.6'	59.1'
11	134°57.5'	344°13.6'	N 11°57.9'	348°10.3'	8.2'	N 13°22.9'	8.7'	59.1'
12	149°59.9'	359°13.8'	N 11°57.1'	2°37.4'	8.2'	N 13°14.2'	8.8'	59.1'
13	165°02.4'	14°13.9'	N 11°56.3'	17°04.7'	8.3'	N 13°05.4'	8.9'	59.0'
14	180°04.8'	29°14.1'	N 11°55.4'	31°32.0'	8.4'	N 12°56.6'	8.9'	59.0'
15	195°07.3'	44°14.2'	N 11°54.6'	45°59.3'	8.4'	N 12°47.6'	9.0'	59.0'
16	210°09.8'	59°14.4'	N 11°53.7'	60°26.8'	8.5'	N 12°38.6'	9.1'	59.0'
17	225°12.2'	74°14.5'	N 11°52.9'	74°54.3'	8.6'	N 12°29.6'	9.1'	58.9'
18	240°14.7'	89°14.7'	N 11°52.1'	89°21.9'	8.6'	N 12°20.4'	9.2'	58.9'
19	255°17.2'	104°14.9'	N 11°51.2'	103°49.5'	8.7'	N 12°11.3'	9.3'	58.9'
20	270°19.6'	119°15.0'	N 11°50.4'	118°17.2'	8.8'	N 12°02.0'	9.3'	58.9'
21	285°22.1'	134°15.2'	N 11°49.6'	132°45.0'	8.9'	N 11°52.7'	9.4'	58.8'
22	300°24.6'	149°15.3'	N 11°48.7'	147°12.9'	8.9'	N 11°43.3'	9.4'	58.8'
23	315°27.0'	164°15.5'	N 11°47.9'	161°40.8'	9.0'	N 11°33.8'	9.5'	58.8'

Tue Aug 22, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.8' SD = 15.8'		SD = 15.9'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	330°29.5'	179°15.6'	N 11°47.0'	176°08.8'	9.1'	N 11°24.3'	9.6'	58.8'
1	345°32.0'	194°15.8'	N 11°46.2'	190°36.9'	9.1'	N 11°14.8'	9.6'	58.7'
2	0°34.4'	209°16.0'	N 11°45.4'	205°05.0'	9.2'	N 11°05.1'	9.7'	58.7'
3	15°36.9'	224°16.1'	N 11°44.5'	219°33.2'	9.3'	N 10°55.4'	9.7'	58.7'
4	30°39.3'	239°16.3'	N 11°43.7'	234°01.4'	9.3'	N 10°45.7'	9.8'	58.7'
5	45°41.8'	254°16.4'	N 11°42.8'	248°29.8'	9.4'	N 10°35.9'	9.8'	58.6'
6	60°44.3'	269°16.6'	N 11°42.0'	262°58.2'	9.5'	N 10°26.1'	9.9'	58.6'
7	75°46.7'	284°16.8'	N 11°41.2'	277°26.7'	9.5'	N 10°16.2'	9.9'	58.6'
8	90°49.2'	299°16.9'	N 11°40.3'	291°55.2'	9.6'	N 10°06.3'	10.0'	58.5'
9	105°51.7'	314°17.1'	N 11°39.5'	306°23.8'	9.7'	N 9°56.3'	10.0'	58.5'
10	120°54.1'	329°17.2'	N 11°38.6'	320°52.5'	9.7'	N 9°46.2'	10.1'	58.5'
11	135°56.6'	344°17.4'	N 11°37.8'	335°21.2'	9.8'	N 9°36.1'	10.1'	58.5'
12	150°59.1'	359°17.5'	N 11°36.9'	349°50.0'	9.9'	N 9°26.0'	10.2'	58.4'
13	166°01.5'	14°17.7'	N 11°36.1'	4°18.9'	9.9'	N 9°15.9'	10.2'	58.4'
14	181°04.0'	29°17.9'	N 11°35.3'	18°47.8'	10.0'	N 9°05.6'	10.3'	58.4'
15	196°06.4'	44°18.0'	N 11°34.4'	33°16.8'	10.1'	N 8°55.4'	10.3'	58.4'
16	211°08.9'	59°18.2'	N 11°33.6'	47°45.9'	10.1'	N 8°45.1'	10.3'	58.3'
17	226°11.4'	74°18.3'	N 11°32.7'	62°15.0'	10.2'	N 8°34.8'	10.4'	58.3'
18	241°13.8'	89°18.5'	N 11°31.9'	76°44.2'	10.3'	N 8°24.4'	10.4'	58.3'
19	256°16.3'	104°18.7'	N 11°31.0'	91°13.5'	10.3'	N 8°14.0'	10.4'	58.2'
20	271°18.8'	119°18.8'	N 11°30.2'	105°42.8'	10.4'	N 8°03.6'	10.5'	58.2'
21	286°21.2'	134°19.0'	N 11°29.3'	120°12.2'	10.5'	N 7°53.1'	10.5'	58.2'
22	301°23.7'	149°19.2'	N 11°28.5'	134°41.7'	10.5'	N 7°42.6'	10.5'	58.1'
23	316°26.2'	164°19.3'	N 11°27.6'	149°11.2'	10.6'	N 7°32.1'	10.6'	58.1'

Wed Aug 23, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 15.8'		SD = 15.8'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	331°28.6'	179°19.5'	N 11°26.8'	163°40.7'	10.6'	N 7°21.5'	10.6'	58.1'
1	346°31.1'	194°19.6'	N 11°25.9'	178°10.4'	10.7'	N 7°10.9'	10.6'	58.1'
2	1°33.6'	209°19.8'	N 11°25.1'	192°40.1'	10.8'	N 7°00.3'	10.6'	58.0'
3	16°36.0'	224°20.0'	N 11°24.3'	207°09.8'	10.8'	N 6°49.6'	10.7'	58.0'
4	31°38.5'	239°20.1'	N 11°23.4'	221°39.7'	10.9'	N 6°39.0'	10.7'	58.0'
5	46°40.9'	254°20.3'	N 11°22.6'	236°09.5'	10.9'	N 6°28.3'	10.7'	57.9'
6	61°43.4'	269°20.5'	N 11°21.7'	250°39.5'	11.0'	N 6°17.6'	10.7'	57.9'
7	76°45.9'	284°20.6'	N 11°20.9'	265°09.5'	11.1'	N 6°06.8'	10.8'	57.9'
8	91°48.3'	299°20.8'	N 11°20.0'	279°39.5'	11.1'	N 5°56.1'	10.8'	57.8'
9	106°50.8'	314°20.9'	N 11°19.2'	294°09.6'	11.2'	N 5°45.3'	10.8'	57.8'
10	121°53.3'	329°21.1'	N 11°18.3'	308°39.8'	11.2'	N 5°34.5'	10.8'	57.8'
11	136°55.7'	344°21.3'	N 11°17.5'	323°10.0'	11.3'	N 5°23.7'	10.8'	57.7'
12	151°58.2'	359°21.4'	N 11°16.6'	337°40.3'	11.3'	N 5°12.8'	10.8'	57.7'
13	167°00.7'	14°21.6'	N 11°15.8'	352°10.6'	11.4'	N 5°02.0'	10.9'	57.7'
14	182°03.1'	29°21.8'	N 11°14.9'	6°41.0'	11.4'	N 4°51.1'	10.9'	57.7'
15	197°05.6'	44°21.9'	N 11°14.0'	21°11.5'	11.5'	N 4°40.3'	10.9'	57.6'
16	212°08.1'	59°22.1'	N 11°13.2'	35°42.0'	11.5'	N 4°29.4'	10.9'	57.6'
17	227°10.5'	74°22.3'	N 11°12.3'	50°12.5'	11.6'	N 4°18.5'	10.9'	57.6'
18	242°13.0'	89°22.4'	N 11°11.5'	64°43.1'	11.7'	N 4°07.6'	10.9'	57.5'
19	257°15.4'	104°22.6'	N 11°10.6'	79°13.8'	11.7'	N 3°56.7'	10.9'	57.5'
20	272°17.9'	119°22.8'	N 11°09.8'	93°44.5'	11.8'	N 3°45.7'	10.9'	57.5'
21	287°20.4'	134°22.9'	N 11°08.9'	108°15.2'	11.8'	N 3°34.8'	10.9'	57.4'
22	302°22.8'	149°23.1'	N 11°08.1'	122°46.0'	11.9'	N 3°23.9'	10.9'	57.4'
23	317°25.3'	164°23.3'	N 11°07.2'	137°16.9'	11.9'	N 3°13.0'	10.9'	57.4'

Thu Aug 24, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 15.8'		SD = 15.5'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	332°27.8'	179°23.4'	N 11°06.4'	151°47.8'	11.9'	N 3°02.0'	10.9'	57.3'
1	347°30.2'	194°23.6'	N 11°05.5'	166°18.7'	12.0'	N 2°51.1'	10.9'	57.3'
2	2°32.7'	209°23.8'	N 11°04.7'	180°49.7'	12.0'	N 2°40.1'	10.9'	57.3'
3	17°35.2'	224°23.9'	N 11°03.8'	195°20.8'	12.1'	N 2°29.2'	10.9'	57.2'
4	32°37.6'	239°24.1'	N 11°02.9'	209°51.8'	12.1'	N 2°18.2'	10.9'	57.2'
5	47°40.1'	254°24.3'	N 11°02.1'	224°23.0'	12.2'	N 2°07.3'	10.9'	57.2'
6	62°42.5'	269°24.4'	N 11°01.2'	238°54.2'	12.2'	N 1°56.4'	10.9'	57.1'
7	77°45.0'	284°24.6'	N 11°00.4'	253°25.4'	12.3'	N 1°45.4'	10.9'	57.1'
8	92°47.5'	299°24.8'	N 10°59.5'	267°56.6'	12.3'	N 1°34.5'	10.9'	57.1'
9	107°49.9'	314°24.9'	N 10°58.7'	282°28.0'	12.4'	N 1°23.6'	10.9'	57.0'
10	122°52.4'	329°25.1'	N 10°57.8'	296°59.3'	12.4'	N 1°12.6'	10.9'	57.0'
11	137°54.9'	344°25.3'	N 10°56.9'	311°30.7'	12.4'	N 1°01.7'	10.9'	57.0'
12	152°57.3'	359°25.4'	N 10°56.1'	326°02.1'	12.5'	N 0°50.8'	10.9'	56.9'
13	167°59.8'	14°25.6'	N 10°55.2'	340°33.6'	12.5'	N 0°39.9'	10.9'	56.9'
14	183°02.3'	29°25.8'	N 10°54.4'	355°05.1'	12.6'	N 0°29.0'	10.9'	56.9'
15	198°04.7'	44°25.9'	N 10°53.5'	9°36.7'	12.6'	N 0°18.2'	10.9'	56.9'
16	213°07.2'	59°26.1'	N 10°52.7'	24°08.3'	12.6'	N 0°07.3'	10.9'	56.8'
17	228°09.7'	74°26.3'	N 10°51.8'	38°39.9'	12.7'	S 0°03.5'	10.8'	56.8'
18	243°12.1'	89°26.5'	N 10°50.9'	53°11.5'	12.7'	S 0°14.4'	10.8'	56.8'
19	258°14.6'	104°26.6'	N 10°50.1'	67°43.2'	12.7'	S 0°25.2'	10.8'	56.7'
20	273°17.0'	119°26.8'	N 10°49.2'	82°15.0'	12.8'	S 0°36.0'	10.8'	56.7'
21	288°19.5'	134°27.0'	N 10°48.3'	96°46.7'	12.8'	S 0°46.8'	10.8'	56.7'
22	303°22.0'	149°27.1'	N 10°47.5'	111°18.5'	12.8'	S 0°57.6'	10.8'	56.6'
23	318°24.4'	164°27.3'	N 10°46.6'	125°50.4'	12.9'	S 1°08.4'	10.7'	56.6'

Fri Aug 25, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 15.8'		SD = 15.3'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	333°26.9'	179°27.5'	N 10°45.8'	140°22.2'	12.9'	S 1°19.1'	10.7'	56.6'
1	348°29.4'	194°27.6'	N 10°44.9'	154°54.1'	12.9'	S 1°29.8'	10.7'	56.5'
2	3°31.8'	209°27.8'	N 10°44.0'	169°26.1'	13.0'	S 1°40.5'	10.7'	56.5'
3	18°34.3'	224°28.0'	N 10°43.2'	183°58.0'	13.0'	S 1°51.2'	10.7'	56.5'
4	33°36.8'	239°28.2'	N 10°42.3'	198°30.0'	13.0'	S 2°01.9'	10.6'	56.4'
5	48°39.2'	254°28.3'	N 10°41.4'	213°02.1'	13.0'	S 2°12.5'	10.6'	56.4'
6	63°41.7'	269°28.5'	N 10°40.6'	227°34.1'	13.1'	S 2°23.1'	10.6'	56.4'
7	78°44.1'	284°28.7'	N 10°39.7'	242°06.2'	13.1'	S 2°33.7'	10.6'	56.4'
8	93°46.6'	299°28.8'	N 10°38.9'	256°38.3'	13.1'	S 2°44.3'	10.5'	56.3'
9	108°49.1'	314°29.0'	N 10°38.0'	271°10.4'	13.2'	S 2°54.8'	10.5'	56.3'
10	123°51.5'	329°29.2'	N 10°37.1'	285°42.6'	13.2'	S 3°05.4'	10.5'	56.3'
11	138°54.0'	344°29.4'	N 10°36.3'	300°14.7'	13.2'	S 3°15.8'	10.5'	56.2'
12	153°56.5'	359°29.5'	N 10°35.4'	314°47.0'	13.2'	S 3°26.3'	10.4'	56.2'
13	168°58.9'	14°29.7'	N 10°34.5'	329°19.2'	13.3'	S 3°36.7'	10.4'	56.2'
14	184°01.4'	29°29.9'	N 10°33.7'	343°51.4'	13.3'	S 3°47.2'	10.4'	56.1'
15	199°03.9'	44°30.1'	N 10°32.8'	358°23.7'	13.3'	S 3°57.5'	10.3'	56.1'
16	214°06.3'	59°30.2'	N 10°31.9'	12°56.0'	13.3'	S 4°07.9'	10.3'	56.1'
17	229°08.8'	74°30.4'	N 10°31.1'	27°28.3'	13.3'	S 4°18.2'	10.3'	56.1'
18	244°11.3'	89°30.6'	N 10°30.2'	42°00.7'	13.4'	S 4°28.5'	10.3'	56.0'
19	259°13.7'	104°30.8'	N 10°29.3'	56°33.0'	13.4'	S 4°38.7'	10.2'	56.0'
20	274°16.2'	119°30.9'	N 10°28.5'	71°05.4'	13.4'	S 4°49.0'	10.2'	56.0'
21	289°18.6'	134°31.1'	N 10°27.6'	85°37.8'	13.4'	S 4°59.2'	10.2'	55.9'
22	304°21.1'	149°31.3'	N 10°26.7'	100°10.2'	13.4'	S 5°09.3'	10.1'	55.9'
23	319°23.6'	164°31.5'	N 10°25.9'	114°42.6'	13.4'	S 5°19.4'	10.1'	55.9'

Sat Aug 26, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 15.8'		SD = 15.2'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	334°26.0'	179°31.6'	N 10°25.0'	129°15.1'	13.5'	S 5°29.5'	10.0'	55.9'
1	349°28.5'	194°31.8'	N 10°24.1'	143°47.6'	13.5'	S 5°39.6'	10.0'	55.8'
2	4°31.0'	209°32.0'	N 10°23.3'	158°20.0'	13.5'	S 5°49.6'	10.0'	55.8'
3	19°33.4'	224°32.2'	N 10°22.4'	172°52.5'	13.5'	S 5°59.5'	9.9'	55.8'
4	34°35.9'	239°32.3'	N 10°21.5'	187°25.0'	13.5'	S 6°09.5'	9.9'	55.7'
5	49°38.4'	254°32.5'	N 10°20.6'	201°57.6'	13.5'	S 6°19.4'	9.9'	55.7'
6	64°40.8'	269°32.7'	N 10°19.8'	216°30.1'	13.5'	S 6°29.2'	9.8'	55.7'
7	79°43.3'	284°32.9'	N 10°18.9'	231°02.6'	13.6'	S 6°39.1'	9.8'	55.7'
8	94°45.7'	299°33.0'	N 10°18.0'	245°35.2'	13.6'	S 6°48.8'	9.7'	55.6'
9	109°48.2'	314°33.2'	N 10°17.2'	260°07.8'	13.6'	S 6°58.6'	9.7'	55.6'
10	124°50.7'	329°33.4'	N 10°16.3'	274°40.3'	13.6'	S 7°08.3'	9.7'	55.6'
11	139°53.1'	344°33.6'	N 10°15.4'	289°12.9'	13.6'	S 7°17.9'	9.6'	55.6'
12	154°55.6'	359°33.7'	N 10°14.5'	303°45.5'	13.6'	S 7°27.6'	9.6'	55.5'
13	169°58.1'	14°33.9'	N 10°13.7'	318°18.1'	13.6'	S 7°37.1'	9.5'	55.5'
14	185°00.5'	29°34.1'	N 10°12.8'	332°50.7'	13.6'	S 7°46.7'	9.5'	55.5'
15	200°03.0'	44°34.3'	N 10°11.9'	347°23.4'	13.6'	S 7°56.1'	9.4'	55.4'
16	215°05.5'	59°34.5'	N 10°11.1'	1°56.0'	13.6'	S 8°05.6'	9.4'	55.4'
17	230°07.9'	74°34.6'	N 10°10.2'	16°28.6'	13.6'	S 8°15.0'	9.3'	55.4'
18	245°10.4'	89°34.8'	N 10°09.3'	31°01.3'	13.6'	S 8°24.3'	9.3'	55.4'
19	260°12.9'	104°35.0'	N 10°08.4'	45°33.9'	13.7'	S 8°33.6'	9.3'	55.3'
20	275°15.3'	119°35.2'	N 10°07.6'	60°06.6'	13.7'	S 8°42.9'	9.2'	55.3'
21	290°17.8'	134°35.4'	N 10°06.7'	74°39.2'	13.7'	S 8°52.1'	9.2'	55.3'
22	305°20.2'	149°35.5'	N 10°05.8'	89°11.9'	13.7'	S 9°01.2'	9.1'	55.3'
23	320°22.7'	164°35.7'	N 10°04.9'	103°44.5'	13.7'	S 9°10.3'	9.1'	55.3'

Sun Aug 27, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 15.8'		SD = 15.0'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	335°25.2'	179°35.9'	N 10°04.1'	118°17.2'	13.7'	S 9°19.4'	9.0'	55.2'
1	350°27.6'	194°36.1'	N 10°03.2'	132°49.9'	13.7'	S 9°28.4'	9.0'	55.2'
2	5°30.1'	209°36.3'	N 10°02.3'	147°22.5'	13.7'	S 9°37.4'	8.9'	55.2'
3	20°32.6'	224°36.4'	N 10°01.4'	161°55.2'	13.7'	S 9°46.3'	8.9'	55.2'
4	35°35.0'	239°36.6'	N 10°00.5'	176°27.9'	13.7'	S 9°55.1'	8.8'	55.1'
5	50°37.5'	254°36.8'	N 9°59.7'	191°00.5'	13.7'	S 10°03.9'	8.8'	55.1'
6	65°40.0'	269°37.0'	N 9°58.8'	205°33.2'	13.7'	S 10°12.7'	8.7'	55.1'
7	80°42.4'	284°37.2'	N 9°57.9'	220°05.9'	13.7'	S 10°21.4'	8.6'	55.1'
8	95°44.9'	299°37.3'	N 9°57.0'	234°38.5'	13.7'	S 10°30.0'	8.6'	55.1'
9	110°47.4'	314°37.5'	N 9°56.2'	249°11.2'	13.7'	S 10°38.6'	8.5'	55.0'
10	125°49.8'	329°37.7'	N 9°55.3'	263°43.8'	13.7'	S 10°47.2'	8.5'	55.0'
11	140°52.3'	344°37.9'	N 9°54.4'	278°16.5'	13.6'	S 10°55.7'	8.4'	55.0'
12	155°54.7'	359°38.1'	N 9°53.5'	292°49.1'	13.6'	S 11°04.1'	8.4'	55.0'
13	170°57.2'	14°38.2'	N 9°52.6'	307°21.8'	13.6'	S 11°12.5'	8.3'	54.9'
14	185°59.7'	29°38.4'	N 9°51.8'	321°54.4'	13.6'	S 11°20.8'	8.3'	54.9'
15	201°02.1'	44°38.6'	N 9°50.9'	336°27.1'	13.6'	S 11°29.1'	8.2'	54.9'
16	216°04.6'	59°38.8'	N 9°50.0'	350°59.7'	13.6'	S 11°37.3'	8.2'	54.9'
17	231°07.1'	74°39.0'	N 9°49.1'	5°32.3'	13.6'	S 11°45.4'	8.1'	54.9'
18	246°09.5'	89°39.2'	N 9°48.2'	20°04.9'	13.6'	S 11°53.5'	8.0'	54.8'
19	261°12.0'	104°39.3'	N 9°47.4'	34°37.5'	13.6'	S 12°01.6'	8.0'	54.8'
20	276°14.5'	119°39.5'	N 9°46.5'	49°10.1'	13.6'	S 12°09.5'	7.9'	54.8'
21	291°16.9'	134°39.7'	N 9°45.6'	63°42.7'	13.6'	S 12°17.4'	7.9'	54.8'
22	306°19.4'	149°39.9'	N 9°44.7'	78°15.3'	13.6'	S 12°25.3'	7.8'	54.8'
23	321°21.8'	164°40.1'	N 9°43.8'	92°47.9'	13.6'	S 12°33.1'	7.7'	54.8'

Mon Aug 28, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 15.8'		SD = 14.9'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	336°24.3'	179°40.3'	N 9°43.0'	107°20.4'	13.6'	S 12°40.8'	7.7'	54.7'
1	351°26.8'	194°40.4'	N 9°42.1'	121°53.0'	13.5'	S 12°48.5'	7.6'	54.7'
2	6°29.2'	209°40.6'	N 9°41.2'	136°25.5'	13.5'	S 12°56.1'	7.6'	54.7'
3	21°31.7'	224°40.8'	N 9°40.3'	150°58.1'	13.5'	S 13°03.7'	7.5'	54.7'
4	36°34.2'	239°41.0'	N 9°39.4'	165°30.6'	13.5'	S 13°11.2'	7.4'	54.7'
5	51°36.6'	254°41.2'	N 9°38.5'	180°03.1'	13.5'	S 13°18.6'	7.4'	54.7'
6	66°39.1'	269°41.4'	N 9°37.7'	194°35.6'	13.5'	S 13°26.0'	7.3'	54.6'
7	81°41.6'	284°41.5'	N 9°36.8'	209°08.1'	13.5'	S 13°33.3'	7.2'	54.6'
8	96°44.0'	299°41.7'	N 9°35.9'	223°40.6'	13.5'	S 13°40.5'	7.2'	54.6'
9	111°46.5'	314°41.9'	N 9°35.0'	238°13.0'	13.4'	S 13°47.7'	7.1'	54.6'
10	126°49.0'	329°42.1'	N 9°34.1'	252°45.5'	13.4'	S 13°54.8'	7.0'	54.6'
11	141°51.4'	344°42.3'	N 9°33.2'	267°17.9'	13.4'	S 14°01.8'	7.0'	54.6'
12	156°53.9'	359°42.5'	N 9°32.4'	281°50.3'	13.4'	S 14°08.8'	6.9'	54.6'
13	171°56.3'	14°42.7'	N 9°31.5'	296°22.7'	13.4'	S 14°15.7'	6.8'	54.5'
14	186°58.8'	29°42.8'	N 9°30.6'	310°55.1'	13.4'	S 14°22.5'	6.8'	54.5'
15	202°01.3'	44°43.0'	N 9°29.7'	325°27.5'	13.4'	S 14°29.3'	6.7'	54.5'
16	217°03.7'	59°43.2'	N 9°28.8'	339°59.9'	13.3'	S 14°36.0'	6.6'	54.5'
17	232°06.2'	74°43.4'	N 9°27.9'	354°32.2'	13.3'	S 14°42.7'	6.6'	54.5'
18	247°08.7'	89°43.6'	N 9°27.0'	9°04.6'	13.3'	S 14°49.2'	6.5'	54.5'
19	262°11.1'	104°43.8'	N 9°26.1'	23°36.9'	13.3'	S 14°55.8'	6.4'	54.5'
20	277°13.6'	119°44.0'	N 9°25.3'	38°09.2'	13.3'	S 15°02.2'	6.4'	54.5'
21	292°16.1'	134°44.1'	N 9°24.4'	52°41.4'	13.3'	S 15°08.6'	6.3'	54.4'
22	307°18.5'	149°44.3'	N 9°23.5'	67°13.7'	13.2'	S 15°14.9'	6.2'	54.4'
23	322°21.0'	164°44.5'	N 9°22.6'	81°46.0'	13.2'	S 15°21.1'	6.2'	54.4'

Tue Aug 29, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 15.8'		SD = 14.8'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	337°23.5'	179°44.7'	N 9°21.7'	96°18.2'	13.2'	S 15°27.2'	6.1'	54.4'
1	352°25.9'	194°44.9'	N 9°20.8'	110°50.4'	13.2'	S 15°33.3'	6.0'	54.4'
2	7°28.4'	209°45.1'	N 9°19.9'	125°22.6'	13.2'	S 15°39.3'	5.9'	54.4'
3	22°30.8'	224°45.3'	N 9°19.0'	139°54.8'	13.2'	S 15°45.3'	5.9'	54.4'
4	37°33.3'	239°45.5'	N 9°18.2'	154°26.9'	13.1'	S 15°51.2'	5.8'	54.4'
5	52°35.8'	254°45.6'	N 9°17.3'	168°59.1'	13.1'	S 15°57.0'	5.7'	54.4'
6	67°38.2'	269°45.8'	N 9°16.4'	183°31.2'	13.1'	S 16°02.7'	5.7'	54.4'
7	82°40.7'	284°46.0'	N 9°15.5'	198°03.3'	13.1'	S 16°08.3'	5.6'	54.3'
8	97°43.2'	299°46.2'	N 9°14.6'	212°35.4'	13.1'	S 16°13.9'	5.5'	54.3'
9	112°45.6'	314°46.4'	N 9°13.7'	227°07.4'	13.0'	S 16°19.4'	5.4'	54.3'
10	127°48.1'	329°46.6'	N 9°12.8'	241°39.5'	13.0'	S 16°24.9'	5.4'	54.3'
11	142°50.6'	344°46.8'	N 9°11.9'	256°11.5'	13.0'	S 16°30.2'	5.3'	54.3'
12	157°53.0'	359°47.0'	N 9°11.0'	270°43.5'	13.0'	S 16°35.5'	5.2'	54.3'
13	172°55.5'	14°47.2'	N 9°10.1'	285°15.5'	13.0'	S 16°40.7'	5.1'	54.3'
14	187°57.9'	29°47.3'	N 9°09.2'	299°47.5'	12.9'	S 16°45.8'	5.1'	54.3'
15	203°00.4'	44°47.5'	N 9°08.4'	314°19.4'	12.9'	S 16°50.9'	5.0'	54.3'
16	218°02.9'	59°47.7'	N 9°07.5'	328°51.3'	12.9'	S 16°55.9'	4.9'	54.3'
17	233°05.3'	74°47.9'	N 9°06.6'	343°23.2'	12.9'	S 17°00.8'	4.8'	54.3'
18	248°07.8'	89°48.1'	N 9°05.7'	357°55.1'	12.9'	S 17°05.6'	4.7'	54.3'
19	263°10.3'	104°48.3'	N 9°04.8'	12°27.0'	12.8'	S 17°10.4'	4.7'	54.3'
20	278°12.7'	119°48.5'	N 9°03.9'	26°58.8'	12.8'	S 17°15.0'	4.6'	54.3'
21	293°15.2'	134°48.7'	N 9°03.0'	41°30.6'	12.8'	S 17°19.6'	4.5'	54.3'
22	308°17.7'	149°48.9'	N 9°02.1'	56°02.4'	12.8'	S 17°24.1'	4.4'	54.3'
23	323°20.1'	164°49.1'	N 9°01.2'	70°34.2'	12.8'	S 17°28.6'	4.4'	54.3'

Wed Aug 30, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 15.8'		SD = 14.8'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	338°22.6'	179°49.3'	N 9°00.3'	85°06.0'	12.7'	S 17°32.9'	4.3'	54.2'
1	353°25.1'	194°49.4'	N 8°59.4'	99°37.7'	12.7'	S 17°37.2'	4.2'	54.2'
2	8°27.5'	209°49.6'	N 8°58.5'	114°09.4'	12.7'	S 17°41.4'	4.1'	54.2'
3	23°30.0'	224°49.8'	N 8°57.6'	128°41.1'	12.7'	S 17°45.5'	4.0'	54.2'
4	38°32.4'	239°50.0'	N 8°56.7'	143°12.8'	12.7'	S 17°49.6'	4.0'	54.2'
5	53°34.9'	254°50.2'	N 8°55.8'	157°44.4'	12.6'	S 17°53.5'	3.9'	54.2'
6	68°37.4'	269°50.4'	N 8°54.9'	172°16.1'	12.6'	S 17°57.4'	3.8'	54.2'
7	83°39.8'	284°50.6'	N 8°54.0'	186°47.7'	12.6'	S 18°01.2'	3.7'	54.2'
8	98°42.3'	299°50.8'	N 8°53.1'	201°19.3'	12.6'	S 18°04.9'	3.6'	54.2'
9	113°44.8'	314°51.0'	N 8°52.2'	215°50.8'	12.5'	S 18°08.6'	3.5'	54.2'
10	128°47.2'	329°51.2'	N 8°51.4'	230°22.4'	12.5'	S 18°12.1'	3.5'	54.2'
11	143°49.7'	344°51.4'	N 8°50.5'	244°53.9'	12.5'	S 18°15.6'	3.4'	54.2'
12	158°52.2'	359°51.6'	N 8°49.6'	259°25.4'	12.5'	S 18°19.0'	3.3'	54.2'
13	173°54.6'	14°51.8'	N 8°48.7'	273°56.9'	12.5'	S 18°22.3'	3.2'	54.2'
14	188°57.1'	29°51.9'	N 8°47.8'	288°28.3'	12.4'	S 18°25.5'	3.1'	54.2'
15	203°59.6'	44°52.1'	N 8°46.9'	302°59.8'	12.4'	S 18°28.6'	3.1'	54.2'
16	219°02.0'	59°52.3'	N 8°46.0'	317°31.2'	12.4'	S 18°31.7'	3.0'	54.2'
17	234°04.5'	74°52.5'	N 8°45.1'	332°02.6'	12.4'	S 18°34.6'	2.9'	54.2'
18	249°06.9'	89°52.7'	N 8°44.2'	346°34.0'	12.4'	S 18°37.5'	2.8'	54.2'
19	264°09.4'	104°52.9'	N 8°43.3'	1°05.3'	12.3'	S 18°40.3'	2.7'	54.2'
20	279°11.9'	119°53.1'	N 8°42.4'	15°36.6'	12.3'	S 18°43.0'	2.6'	54.2'
21	294°14.3'	134°53.3'	N 8°41.5'	30°08.0'	12.3'	S 18°45.6'	2.5'	54.2'
22	309°16.8'	149°53.5'	N 8°40.6'	44°39.2'	12.3'	S 18°48.2'	2.5'	54.3'
23	324°19.3'	164°53.7'	N 8°39.7'	59°10.5'	12.2'	S 18°50.6'	2.4'	54.3'

Thu Aug 31, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 15.8'		SD = 14.8'				
		GHA	dec	GHA	v	dec	d	HP
0	339°21.7'	179°53.9'	N 8°38.8'	73°41.8'	12.2'	S 18°53.0'	2.3'	54.3'
1	354°24.2'	194°54.1'	N 8°37.9'	88°13.0'	12.2'	S 18°55.3'	2.2'	54.3'
2	9°26.7'	209°54.3'	N 8°37.0'	102°44.2'	12.2'	S 18°57.5'	2.1'	54.3'
3	24°29.1'	224°54.5'	N 8°36.1'	117°15.4'	12.2'	S 18°59.6'	2.0'	54.3'
4	39°31.6'	239°54.7'	N 8°35.2'	131°46.6'	12.1'	S 19°01.6'	1.9'	54.3'
5	54°34.0'	254°54.9'	N 8°34.3'	146°17.7'	12.1'	S 19°03.5'	1.8'	54.3'
6	69°36.5'	269°55.1'	N 8°33.4'	160°48.8'	12.1'	S 19°05.4'	1.8'	54.3'
7	84°39.0'	284°55.3'	N 8°32.5'	175°20.0'	12.1'	S 19°07.1'	1.7'	54.3'
8	99°41.4'	299°55.4'	N 8°31.6'	189°51.0'	12.1'	S 19°08.8'	1.6'	54.3'
9	114°43.9'	314°55.6'	N 8°30.7'	204°22.1'	12.1'	S 19°10.4'	1.5'	54.3'
10	129°46.4'	329°55.8'	N 8°29.8'	218°53.2'	12.0'	S 19°11.9'	1.4'	54.3'
11	144°48.8'	344°56.0'	N 8°28.9'	233°24.2'	12.0'	S 19°13.3'	1.3'	54.3'
12	159°51.3'	359°56.2'	N 8°27.9'	247°55.2'	12.0'	S 19°14.6'	1.2'	54.3'
13	174°53.8'	14°56.4'	N 8°27.0'	262°26.2'	12.0'	S 19°15.8'	1.1'	54.3'
14	189°56.2'	29°56.6'	N 8°26.1'	276°57.2'	12.0'	S 19°17.0'	1.0'	54.3'
15	204°58.7'	44°56.8'	N 8°25.2'	291°28.2'	11.9'	S 19°18.0'	1.0'	54.3'
16	220°01.2'	59°57.0'	N 8°24.3'	305°59.1'	11.9'	S 19°19.0'	0.9'	54.4'
17	235°03.6'	74°57.2'	N 8°23.4'	320°30.0'	11.9'	S 19°19.8'	0.8'	54.4'
18	250°06.1'	89°57.4'	N 8°22.5'	335°01.0'	11.9'	S 19°20.6'	0.7'	54.4'
19	265°08.5'	104°57.6'	N 8°21.6'	349°31.8'	11.9'	S 19°21.3'	0.6'	54.4'
20	280°11.0'	119°57.8'	N 8°20.7'	4°02.7'	11.9'	S 19°21.9'	0.5'	54.4'
21	295°13.5'	134°58.0'	N 8°19.8'	18°33.6'	11.8'	S 19°22.4'	0.4'	54.4'
22	310°15.9'	149°58.2'	N 8°18.9'	33°04.4'	11.8'	S 19°22.8'	0.3'	54.4'
23	325°18.4'	164°58.4'	N 8°18.0'	47°35.3'	11.8'	S 19°23.1'	0.2'	54.4'