

Sat Apr 1, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 1.0' SD = 16.0'		SD = 16.3'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	189°32.6'	179°00.7'	N 4°31.8'	126°03.3'	6.2'	N 15°56.9'	6.5'	60.0'
1	204°35.1'	194°00.9'	N 4°32.7'	140°28.5'	6.2'	N 16°03.4'	6.4'	60.0'
2	219°37.6'	209°01.1'	N 4°33.7'	154°53.7'	6.2'	N 16°09.8'	6.3'	60.0'
3	234°40.0'	224°01.3'	N 4°34.7'	169°18.9'	6.2'	N 16°16.1'	6.2'	60.0'
4	249°42.5'	239°01.5'	N 4°35.6'	183°44.0'	6.1'	N 16°22.3'	6.1'	60.0'
5	264°45.0'	254°01.7'	N 4°36.6'	198°09.2'	6.1'	N 16°28.4'	6.0'	60.0'
6	279°47.4'	269°01.8'	N 4°37.6'	212°34.3'	6.1'	N 16°34.4'	5.9'	59.9'
7	294°49.9'	284°02.0'	N 4°38.5'	226°59.4'	6.1'	N 16°40.3'	5.7'	59.9'
8	309°52.3'	299°02.2'	N 4°39.5'	241°24.4'	6.1'	N 16°46.0'	5.6'	59.9'
9	324°54.8'	314°02.4'	N 4°40.5'	255°49.5'	6.0'	N 16°51.6'	5.5'	59.9'
10	339°57.3'	329°02.6'	N 4°41.4'	270°14.5'	6.0'	N 16°57.2'	5.4'	59.9'
11	354°59.7'	344°02.8'	N 4°42.4'	284°39.6'	6.0'	N 17°02.6'	5.3'	59.9'
12	10°02.2'	359°02.9'	N 4°43.4'	299°04.6'	6.0'	N 17°07.8'	5.2'	59.9'
13	25°04.7'	14°03.1'	N 4°44.3'	313°29.6'	6.0'	N 17°13.0'	5.0'	59.8'
14	40°07.1'	29°03.3'	N 4°45.3'	327°54.6'	6.0'	N 17°18.1'	4.9'	59.8'
15	55°09.6'	44°03.5'	N 4°46.2'	342°19.5'	6.0'	N 17°23.0'	4.8'	59.8'
16	70°12.1'	59°03.7'	N 4°47.2'	356°44.5'	6.0'	N 17°27.8'	4.7'	59.8'
17	85°14.5'	74°03.9'	N 4°48.2'	11°09.4'	5.9'	N 17°32.5'	4.6'	59.8'
18	100°17.0'	89°04.1'	N 4°49.1'	25°34.4'	5.9'	N 17°37.0'	4.4'	59.8'
19	115°19.5'	104°04.2'	N 4°50.1'	39°59.3'	5.9'	N 17°41.5'	4.3'	59.7'
20	130°21.9'	119°04.4'	N 4°51.1'	54°24.3'	5.9'	N 17°45.8'	4.2'	59.7'
21	145°24.4'	134°04.6'	N 4°52.0'	68°49.2'	5.9'	N 17°50.0'	4.1'	59.7'
22	160°26.8'	149°04.8'	N 4°53.0'	83°14.1'	5.9'	N 17°54.1'	4.0'	59.7'
23	175°29.3'	164°05.0'	N 4°53.9'	97°39.0'	5.9'	N 17°58.0'	3.8'	59.7'

Sun Apr 2, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 1.0' SD = 16.0'		SD = 16.2'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	190°31.8'	179°05.2'	N 4°54.9'	112°03.9'	5.9'	N 18°01.9'	3.7'	59.7'
1	205°34.2'	194°05.3'	N 4°55.9'	126°28.8'	5.9'	N 18°05.6'	3.6'	59.6'
2	220°36.7'	209°05.5'	N 4°56.8'	140°53.7'	5.9'	N 18°09.2'	3.5'	59.6'
3	235°39.2'	224°05.7'	N 4°57.8'	155°18.6'	5.9'	N 18°12.7'	3.3'	59.6'
4	250°41.6'	239°05.9'	N 4°58.7'	169°43.5'	5.9'	N 18°16.0'	3.2'	59.6'
5	265°44.1'	254°06.1'	N 4°59.7'	184°08.5'	5.9'	N 18°19.2'	3.1'	59.6'
6	280°46.6'	269°06.3'	N 5°00.7'	198°33.4'	5.9'	N 18°22.3'	3.0'	59.5'
7	295°49.0'	284°06.5'	N 5°01.6'	212°58.3'	5.9'	N 18°25.3'	2.8'	59.5'
8	310°51.5'	299°06.6'	N 5°02.6'	227°23.2'	5.9'	N 18°28.1'	2.7'	59.5'
9	325°54.0'	314°06.8'	N 5°03.6'	241°48.1'	5.9'	N 18°30.8'	2.6'	59.5'
10	340°56.4'	329°07.0'	N 5°04.5'	256°13.1'	5.9'	N 18°33.4'	2.5'	59.5'
11	355°58.9'	344°07.2'	N 5°05.5'	270°38.0'	5.9'	N 18°35.9'	2.3'	59.4'
12	11°01.3'	359°07.4'	N 5°06.4'	285°02.9'	6.0'	N 18°38.2'	2.2'	59.4'
13	26°03.8'	14°07.6'	N 5°07.4'	299°27.9'	6.0'	N 18°40.5'	2.1'	59.4'
14	41°06.3'	29°07.7'	N 5°08.3'	313°52.9'	6.0'	N 18°42.5'	2.0'	59.4'
15	56°08.7'	44°07.9'	N 5°09.3'	328°17.9'	6.0'	N 18°44.5'	1.8'	59.4'
16	71°11.2'	59°08.1'	N 5°10.3'	342°42.9'	6.0'	N 18°46.4'	1.7'	59.3'
17	86°13.7'	74°08.3'	N 5°11.2'	357°07.9'	6.0'	N 18°48.1'	1.6'	59.3'
18	101°16.1'	89°08.5'	N 5°12.2'	11°32.9'	6.0'	N 18°49.7'	1.5'	59.3'
19	116°18.6'	104°08.7'	N 5°13.1'	25°57.9'	6.1'	N 18°51.1'	1.3'	59.3'
20	131°21.1'	119°08.8'	N 5°14.1'	40°23.0'	6.1'	N 18°52.5'	1.2'	59.3'
21	146°23.5'	134°09.0'	N 5°15.1'	54°48.1'	6.1'	N 18°53.7'	1.1'	59.2'
22	161°26.0'	149°09.2'	N 5°16.0'	69°13.2'	6.1'	N 18°54.8'	1.0'	59.2'
23	176°28.5'	164°09.4'	N 5°17.0'	83°38.3'	6.1'	N 18°55.7'	0.8'	59.2'

Mon Apr 3, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 1.0' SD = 16.0'		SD = 16.1'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	191°30.9'	179°09.6'	N 5°17.9'	98°03.4'	6.2'	N 18°56.6'	0.7'	59.2'
1	206°33.4'	194°09.8'	N 5°18.9'	112°28.6'	6.2'	N 18°57.3'	0.6'	59.2'
2	221°35.8'	209°09.9'	N 5°19.8'	126°53.8'	6.2'	N 18°57.9'	0.5'	59.1'
3	236°38.3'	224°10.1'	N 5°20.8'	141°19.0'	6.2'	N 18°58.3'	0.3'	59.1'
4	251°40.8'	239°10.3'	N 5°21.8'	155°44.2'	6.3'	N 18°58.7'	0.2'	59.1'
5	266°43.2'	254°10.5'	N 5°22.7'	170°09.5'	6.3'	N 18°58.9'	0.1'	59.1'
6	281°45.7'	269°10.7'	N 5°23.7'	184°34.7'	6.3'	N 18°59.0'	0.0'	59.0'
7	296°48.2'	284°10.9'	N 5°24.6'	199°00.1'	6.3'	N 18°58.9'	0.2'	59.0'
8	311°50.6'	299°11.0'	N 5°25.6'	213°25.4'	6.4'	N 18°58.8'	0.3'	59.0'
9	326°53.1'	314°11.2'	N 5°26.5'	227°50.8'	6.4'	N 18°58.5'	0.4'	59.0'
10	341°55.6'	329°11.4'	N 5°27.5'	242°16.2'	6.4'	N 18°58.1'	0.5'	59.0'
11	356°58.0'	344°11.6'	N 5°28.5'	256°41.6'	6.5'	N 18°57.6'	0.6'	58.9'
12	12°00.5'	359°11.8'	N 5°29.4'	271°07.1'	6.5'	N 18°56.9'	0.8'	58.9'
13	27°02.9'	14°11.9'	N 5°30.4'	285°32.6'	6.5'	N 18°56.2'	0.9'	58.9'
14	42°05.4'	29°12.1'	N 5°31.3'	299°58.1'	6.6'	N 18°55.3'	1.0'	58.9'
15	57°07.9'	44°12.3'	N 5°32.3'	314°23.7'	6.6'	N 18°54.3'	1.1'	58.8'
16	72°10.3'	59°12.5'	N 5°33.2'	328°49.3'	6.6'	N 18°53.1'	1.2'	58.8'
17	87°12.8'	74°12.7'	N 5°34.2'	343°15.0'	6.7'	N 18°51.9'	1.4'	58.8'
18	102°15.3'	89°12.9'	N 5°35.1'	357°40.6'	6.7'	N 18°50.5'	1.5'	58.8'
19	117°17.7'	104°13.0'	N 5°36.1'	12°06.4'	6.8'	N 18°49.0'	1.6'	58.7'
20	132°20.2'	119°13.2'	N 5°37.1'	26°32.1'	6.8'	N 18°47.4'	1.7'	58.7'
21	147°22.7'	134°13.4'	N 5°38.0'	40°57.9'	6.8'	N 18°45.7'	1.8'	58.7'
22	162°25.1'	149°13.6'	N 5°39.0'	55°23.8'	6.9'	N 18°43.8'	2.0'	58.7'
23	177°27.6'	164°13.8'	N 5°39.9'	69°49.7'	6.9'	N 18°41.9'	2.1'	58.7'

Tue Apr 4, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 1.0' SD = 16.0'		SD = 15.9'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	192°30.1'	179°13.9'	N 5°40.9'	84°15.6'	7.0'	N 18°39.8'	2.2'	58.6'
1	207°32.5'	194°14.1'	N 5°41.8'	98°41.6'	7.0'	N 18°37.6'	2.3'	58.6'
2	222°35.0'	209°14.3'	N 5°42.8'	113°07.6'	7.1'	N 18°35.3'	2.4'	58.6'
3	237°37.4'	224°14.5'	N 5°43.7'	127°33.7'	7.1'	N 18°32.9'	2.5'	58.6'
4	252°39.9'	239°14.7'	N 5°44.7'	141°59.8'	7.2'	N 18°30.3'	2.6'	58.5'
5	267°42.4'	254°14.9'	N 5°45.6'	156°26.0'	7.2'	N 18°27.7'	2.8'	58.5'
6	282°44.8'	269°15.0'	N 5°46.6'	170°52.2'	7.3'	N 18°24.9'	2.9'	58.5'
7	297°47.3'	284°15.2'	N 5°47.5'	185°18.4'	7.3'	N 18°22.1'	3.0'	58.5'
8	312°49.8'	299°15.4'	N 5°48.5'	199°44.7'	7.4'	N 18°19.1'	3.1'	58.4'
9	327°52.2'	314°15.6'	N 5°49.4'	214°11.1'	7.4'	N 18°16.0'	3.2'	58.4'
10	342°54.7'	329°15.8'	N 5°50.4'	228°37.5'	7.5'	N 18°12.8'	3.3'	58.4'
11	357°57.2'	344°15.9'	N 5°51.3'	243°03.9'	7.5'	N 18°09.5'	3.4'	58.4'
12	12°59.6'	359°16.1'	N 5°52.3'	257°30.5'	7.6'	N 18°06.0'	3.5'	58.3'
13	28°02.1'	14°16.3'	N 5°53.3'	271°57.0'	7.6'	N 18°02.5'	3.6'	58.3'
14	43°04.6'	29°16.5'	N 5°54.2'	286°23.6'	7.7'	N 17°58.9'	3.7'	58.3'
15	58°07.0'	44°16.7'	N 5°55.2'	300°50.3'	7.7'	N 17°55.1'	3.9'	58.3'
16	73°09.5'	59°16.8'	N 5°56.1'	315°17.0'	7.8'	N 17°51.2'	4.0'	58.3'
17	88°11.9'	74°17.0'	N 5°57.1'	329°43.8'	7.8'	N 17°47.3'	4.1'	58.2'
18	103°14.4'	89°17.2'	N 5°58.0'	344°10.6'	7.9'	N 17°43.2'	4.2'	58.2'
19	118°16.9'	104°17.4'	N 5°59.0'	358°37.5'	7.9'	N 17°39.1'	4.3'	58.2'
20	133°19.3'	119°17.6'	N 5°59.9'	13°04.4'	8.0'	N 17°34.8'	4.4'	58.2'
21	148°21.8'	134°17.7'	N 6°00.9'	27°31.4'	8.1'	N 17°30.4'	4.5'	58.1'
22	163°24.3'	149°17.9'	N 6°01.8'	41°58.5'	8.1'	N 17°25.9'	4.6'	58.1'
23	178°26.7'	164°18.1'	N 6°02.8'	56°25.6'	8.2'	N 17°21.4'	4.7'	58.1'

Wed Apr 5, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 16.0'		SD = 15.8'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	193°29.2'	179°18.3'	N 6°03.7'	70°52.7'	8.2'	N 17°16.7'	4.8'	58.1'
1	208°31.7'	194°18.5'	N 6°04.7'	85°20.0'	8.3'	N 17°11.9'	4.9'	58.0'
2	223°34.1'	209°18.6'	N 6°05.6'	99°47.2'	8.3'	N 17°07.0'	5.0'	58.0'
3	238°36.6'	224°18.8'	N 6°06.6'	114°14.6'	8.4'	N 17°02.1'	5.1'	58.0'
4	253°39.1'	239°19.0'	N 6°07.5'	128°42.0'	8.5'	N 16°57.0'	5.2'	58.0'
5	268°41.5'	254°19.2'	N 6°08.4'	143°09.4'	8.5'	N 16°51.8'	5.3'	57.9'
6	283°44.0'	269°19.4'	N 6°09.4'	157°36.9'	8.6'	N 16°46.6'	5.4'	57.9'
7	298°46.4'	284°19.5'	N 6°10.3'	172°04.5'	8.6'	N 16°41.2'	5.4'	57.9'
8	313°48.9'	299°19.7'	N 6°11.3'	186°32.2'	8.7'	N 16°35.8'	5.5'	57.9'
9	328°51.4'	314°19.9'	N 6°12.2'	200°59.8'	8.8'	N 16°30.2'	5.6'	57.9'
10	343°53.8'	329°20.1'	N 6°13.2'	215°27.6'	8.8'	N 16°24.6'	5.7'	57.8'
11	358°56.3'	344°20.3'	N 6°14.1'	229°55.4'	8.9'	N 16°18.9'	5.8'	57.8'
12	13°58.8'	359°20.4'	N 6°15.1'	244°23.3'	8.9'	N 16°13.1'	5.9'	57.8'
13	29°01.2'	14°20.6'	N 6°16.0'	258°51.2'	9.0'	N 16°07.2'	6.0'	57.8'
14	44°03.7'	29°20.8'	N 6°17.0'	273°19.2'	9.1'	N 16°01.2'	6.1'	57.7'
15	59°06.2'	44°21.0'	N 6°17.9'	287°47.3'	9.1'	N 15°55.1'	6.2'	57.7'
16	74°08.6'	59°21.2'	N 6°18.9'	302°15.4'	9.2'	N 15°49.0'	6.2'	57.7'
17	89°11.1'	74°21.3'	N 6°19.8'	316°43.6'	9.2'	N 15°42.7'	6.3'	57.7'
18	104°13.5'	89°21.5'	N 6°20.8'	331°11.8'	9.3'	N 15°36.4'	6.4'	57.6'
19	119°16.0'	104°21.7'	N 6°21.7'	345°40.1'	9.4'	N 15°30.0'	6.5'	57.6'
20	134°18.5'	119°21.9'	N 6°22.7'	0°08.4'	9.4'	N 15°23.5'	6.6'	57.6'
21	149°20.9'	134°22.1'	N 6°23.6'	14°36.9'	9.5'	N 15°16.9'	6.7'	57.6'
22	164°23.4'	149°22.2'	N 6°24.5'	29°05.3'	9.5'	N 15°10.3'	6.7'	57.5'
23	179°25.9'	164°22.4'	N 6°25.5'	43°33.9'	9.6'	N 15°03.5'	6.8'	57.5'

Thu Apr 6, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 16.0'		SD = 15.6'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	194°28.3'	179°22.6'	N 6°26.4'	58°02.5'	9.7'	N 14°56.7'	6.9'	57.5'
1	209°30.8'	194°22.8'	N 6°27.4'	72°31.2'	9.7'	N 14°49.8'	7.0'	57.5'
2	224°33.3'	209°22.9'	N 6°28.3'	86°59.9'	9.8'	N 14°42.8'	7.0'	57.5'
3	239°35.7'	224°23.1'	N 6°29.3'	101°28.7'	9.8'	N 14°35.8'	7.1'	57.4'
4	254°38.2'	239°23.3'	N 6°30.2'	115°57.5'	9.9'	N 14°28.7'	7.2'	57.4'
5	269°40.7'	254°23.5'	N 6°31.2'	130°26.4'	10.0'	N 14°21.5'	7.3'	57.4'
6	284°43.1'	269°23.7'	N 6°32.1'	144°55.4'	10.0'	N 14°14.2'	7.3'	57.4'
7	299°45.6'	284°23.8'	N 6°33.0'	159°24.4'	10.1'	N 14°06.9'	7.4'	57.3'
8	314°48.0'	299°24.0'	N 6°34.0'	173°53.5'	10.2'	N 13°59.4'	7.5'	57.3'
9	329°50.5'	314°24.2'	N 6°34.9'	188°22.7'	10.2'	N 13°52.0'	7.6'	57.3'
10	344°53.0'	329°24.4'	N 6°35.9'	202°51.9'	10.3'	N 13°44.4'	7.6'	57.3'
11	359°55.4'	344°24.5'	N 6°36.8'	217°21.1'	10.3'	N 13°36.8'	7.7'	57.3'
12	14°57.9'	359°24.7'	N 6°37.8'	231°50.5'	10.4'	N 13°29.1'	7.8'	57.2'
13	30°00.4'	14°24.9'	N 6°38.7'	246°19.9'	10.4'	N 13°21.3'	7.8'	57.2'
14	45°02.8'	29°25.1'	N 6°39.6'	260°49.3'	10.5'	N 13°13.5'	7.9'	57.2'
15	60°05.3'	44°25.2'	N 6°40.6'	275°18.8'	10.6'	N 13°05.6'	8.0'	57.2'
16	75°07.8'	59°25.4'	N 6°41.5'	289°48.4'	10.6'	N 12°57.7'	8.0'	57.1'
17	90°10.2'	74°25.6'	N 6°42.5'	304°18.0'	10.7'	N 12°49.6'	8.1'	57.1'
18	105°12.7'	89°25.8'	N 6°43.4'	318°47.7'	10.7'	N 12°41.6'	8.1'	57.1'
19	120°15.2'	104°26.0'	N 6°44.3'	333°17.4'	10.8'	N 12°33.4'	8.2'	57.1'
20	135°17.6'	119°26.1'	N 6°45.3'	347°47.2'	10.9'	N 12°25.2'	8.3'	57.0'
21	150°20.1'	134°26.3'	N 6°46.2'	2°17.1'	10.9'	N 12°17.0'	8.3'	57.0'
22	165°22.5'	149°26.5'	N 6°47.2'	16°47.0'	11.0'	N 12°08.6'	8.4'	57.0'
23	180°25.0'	164°26.7'	N 6°48.1'	31°17.0'	11.0'	N 12°00.3'	8.4'	57.0'

Fri Apr 7, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 16.0'		SD = 15.5'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	195°27.5'	179°26.8'	N 6°49.0'	45°47.0'	11.1'	N 11°51.8'	8.5'	57.0'
1	210°29.9'	194°27.0'	N 6°50.0'	60°17.1'	11.1'	N 11°43.3'	8.5'	56.9'
2	225°32.4'	209°27.2'	N 6°50.9'	74°47.2'	11.2'	N 11°34.8'	8.6'	56.9'
3	240°34.9'	224°27.4'	N 6°51.9'	89°17.4'	11.3'	N 11°26.2'	8.7'	56.9'
4	255°37.3'	239°27.5'	N 6°52.8'	103°47.7'	11.3'	N 11°17.5'	8.7'	56.9'
5	270°39.8'	254°27.7'	N 6°53.7'	118°18.0'	11.4'	N 11°08.8'	8.8'	56.8'
6	285°42.3'	269°27.9'	N 6°54.7'	132°48.4'	11.4'	N 11°00.1'	8.8'	56.8'
7	300°44.7'	284°28.1'	N 6°55.6'	147°18.8'	11.5'	N 10°51.3'	8.9'	56.8'
8	315°47.2'	299°28.2'	N 6°56.6'	161°49.2'	11.5'	N 10°42.4'	8.9'	56.8'
9	330°49.6'	314°28.4'	N 6°57.5'	176°19.8'	11.6'	N 10°33.5'	8.9'	56.8'
10	345°52.1'	329°28.6'	N 6°58.4'	190°50.3'	11.6'	N 10°24.6'	9.0'	56.7'
11	0°54.6'	344°28.8'	N 6°59.4'	205°21.0'	11.7'	N 10°15.6'	9.0'	56.7'
12	15°57.0'	359°28.9'	N 7°00.3'	219°51.6'	11.7'	N 10°06.5'	9.1'	56.7'
13	30°59.5'	14°29.1'	N 7°01.3'	234°22.4'	11.8'	N 9°57.5'	9.1'	56.7'
14	46°02.0'	29°29.3'	N 7°02.2'	248°53.2'	11.8'	N 9°48.3'	9.2'	56.7'
15	61°04.4'	44°29.5'	N 7°03.1'	263°24.0'	11.9'	N 9°39.2'	9.2'	56.6'
16	76°06.9'	59°29.6'	N 7°04.1'	277°54.9'	11.9'	N 9°29.9'	9.3'	56.6'
17	91°09.4'	74°29.8'	N 7°05.0'	292°25.8'	12.0'	N 9°20.7'	9.3'	56.6'
18	106°11.8'	89°30.0'	N 7°05.9'	306°56.8'	12.0'	N 9°11.4'	9.3'	56.6'
19	121°14.3'	104°30.2'	N 7°06.9'	321°27.8'	12.1'	N 9°02.1'	9.4'	56.5'
20	136°16.8'	119°30.3'	N 7°07.8'	335°58.9'	12.1'	N 8°52.7'	9.4'	56.5'
21	151°19.2'	134°30.5'	N 7°08.7'	350°30.0'	12.2'	N 8°43.3'	9.4'	56.5'
22	166°21.7'	149°30.7'	N 7°09.7'	5°01.2'	12.2'	N 8°33.8'	9.5'	56.5'
23	181°24.1'	164°30.9'	N 7°10.6'	19°32.4'	12.3'	N 8°24.3'	9.5'	56.5'

Sat Apr 8, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 16.0'		SD = 15.3'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	196°26.6'	179°31.0'	N 7°11.5'	34°03.7'	12.3'	N 8°14.8'	9.6'	56.4'
1	211°29.1'	194°31.2'	N 7°12.5'	48°35.0'	12.4'	N 8°05.3'	9.6'	56.4'
2	226°31.5'	209°31.4'	N 7°13.4'	63°06.4'	12.4'	N 7°55.7'	9.6'	56.4'
3	241°34.0'	224°31.6'	N 7°14.4'	77°37.8'	12.4'	N 7°46.1'	9.6'	56.4'
4	256°36.5'	239°31.7'	N 7°15.3'	92°09.2'	12.5'	N 7°36.4'	9.7'	56.4'
5	271°38.9'	254°31.9'	N 7°16.2'	106°40.7'	12.5'	N 7°26.7'	9.7'	56.3'
6	286°41.4'	269°32.1'	N 7°17.2'	121°12.3'	12.6'	N 7°17.0'	9.7'	56.3'
7	301°43.9'	284°32.3'	N 7°18.1'	135°43.8'	12.6'	N 7°07.3'	9.8'	56.3'
8	316°46.3'	299°32.4'	N 7°19.0'	150°15.5'	12.7'	N 6°57.5'	9.8'	56.3'
9	331°48.8'	314°32.6'	N 7°20.0'	164°47.1'	12.7'	N 6°47.7'	9.8'	56.3'
10	346°51.2'	329°32.8'	N 7°20.9'	179°18.8'	12.7'	N 6°37.9'	9.8'	56.2'
11	1°53.7'	344°32.9'	N 7°21.8'	193°50.6'	12.8'	N 6°28.1'	9.9'	56.2'
12	16°56.2'	359°33.1'	N 7°22.8'	208°22.4'	12.8'	N 6°18.2'	9.9'	56.2'
13	31°58.6'	14°33.3'	N 7°23.7'	222°54.2'	12.9'	N 6°08.3'	9.9'	56.2'
14	47°01.1'	29°33.5'	N 7°24.6'	237°26.1'	12.9'	N 5°58.4'	9.9'	56.1'
15	62°03.6'	44°33.6'	N 7°25.5'	251°58.0'	12.9'	N 5°48.4'	10.0'	56.1'
16	77°06.0'	59°33.8'	N 7°26.5'	266°29.9'	13.0'	N 5°38.5'	10.0'	56.1'
17	92°08.5'	74°34.0'	N 7°27.4'	281°01.9'	13.0'	N 5°28.5'	10.0'	56.1'
18	107°11.0'	89°34.2'	N 7°28.3'	295°33.9'	13.1'	N 5°18.5'	10.0'	56.1'
19	122°13.4'	104°34.3'	N 7°29.3'	310°05.9'	13.1'	N 5°08.5'	10.0'	56.0'
20	137°15.9'	119°34.5'	N 7°30.2'	324°38.0'	13.1'	N 4°58.5'	10.1'	56.0'
21	152°18.4'	134°34.7'	N 7°31.1'	339°10.2'	13.2'	N 4°48.4'	10.1'	56.0'
22	167°20.8'	149°34.8'	N 7°32.1'	353°42.3'	13.2'	N 4°38.3'	10.1'	56.0'
23	182°23.3'	164°35.0'	N 7°33.0'	8°14.5'	13.2'	N 4°28.3'	10.1'	56.0'

Sun Apr 9, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 16.0'		SD = 15.2'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	197°25.7'	179°35.2'	N 7°33.9'	22°46.7'	13.3'	N 4°18.2'	10.1'	55.9'
1	212°28.2'	194°35.4'	N 7°34.9'	37°19.0'	13.3'	N 4°08.0'	10.1'	55.9'
2	227°30.7'	209°35.5'	N 7°35.8'	51°51.3'	13.3'	N 3°57.9'	10.1'	55.9'
3	242°33.1'	224°35.7'	N 7°36.7'	66°23.6'	13.4'	N 3°47.8'	10.1'	55.9'
4	257°35.6'	239°35.9'	N 7°37.6'	80°56.0'	13.4'	N 3°37.6'	10.2'	55.9'
5	272°38.1'	254°36.0'	N 7°38.6'	95°28.3'	13.4'	N 3°27.5'	10.2'	55.9'
6	287°40.5'	269°36.2'	N 7°39.5'	110°00.8'	13.4'	N 3°17.3'	10.2'	55.8'
7	302°43.0'	284°36.4'	N 7°40.4'	124°33.2'	13.5'	N 3°07.1'	10.2'	55.8'
8	317°45.5'	299°36.6'	N 7°41.4'	139°05.7'	13.5'	N 2°57.0'	10.2'	55.8'
9	332°47.9'	314°36.7'	N 7°42.3'	153°38.2'	13.5'	N 2°46.8'	10.2'	55.8'
10	347°50.4'	329°36.9'	N 7°43.2'	168°10.7'	13.6'	N 2°36.6'	10.2'	55.8'
11	2°52.8'	344°37.1'	N 7°44.1'	182°43.3'	13.6'	N 2°26.4'	10.2'	55.7'
12	17°55.3'	359°37.2'	N 7°45.1'	197°15.8'	13.6'	N 2°16.1'	10.2'	55.7'
13	32°57.8'	14°37.4'	N 7°46.0'	211°48.4'	13.6'	N 2°05.9'	10.2'	55.7'
14	48°00.2'	29°37.6'	N 7°46.9'	226°21.1'	13.7'	N 1°55.7'	10.2'	55.7'
15	63°02.7'	44°37.7'	N 7°47.8'	240°53.7'	13.7'	N 1°45.5'	10.2'	55.7'
16	78°05.2'	59°37.9'	N 7°48.8'	255°26.4'	13.7'	N 1°35.3'	10.2'	55.6'
17	93°07.6'	74°38.1'	N 7°49.7'	269°59.1'	13.7'	N 1°25.1'	10.2'	55.6'
18	108°10.1'	89°38.3'	N 7°50.6'	284°31.9'	13.8'	N 1°14.8'	10.2'	55.6'
19	123°12.6'	104°38.4'	N 7°51.5'	299°04.6'	13.8'	N 1°04.6'	10.2'	55.6'
20	138°15.0'	119°38.6'	N 7°52.5'	313°37.4'	13.8'	N 0°54.4'	10.2'	55.6'
21	153°17.5'	134°38.8'	N 7°53.4'	328°10.2'	13.8'	N 0°44.2'	10.2'	55.5'
22	168°20.0'	149°38.9'	N 7°54.3'	342°43.0'	13.8'	N 0°34.0'	10.2'	55.5'
23	183°22.4'	164°39.1'	N 7°55.2'	357°15.8'	13.9'	N 0°23.7'	10.2'	55.5'

Mon Apr 10, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 16.0'		SD = 15.1'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	198°24.9'	179°39.3'	N 7°56.2'	11°48.7'	13.9'	N 0°13.5'	10.2'	55.5'
1	213°27.3'	194°39.4'	N 7°57.1'	26°21.6'	13.9'	N 0°03.3'	10.2'	55.5'
2	228°29.8'	209°39.6'	N 7°58.0'	40°54.5'	13.9'	S 0°06.9'	10.2'	55.5'
3	243°32.3'	224°39.8'	N 7°58.9'	55°27.4'	13.9'	S 0°17.1'	10.2'	55.4'
4	258°34.7'	239°39.9'	N 7°59.9'	70°00.3'	13.9'	S 0°27.2'	10.2'	55.4'
5	273°37.2'	254°40.1'	N 8°00.8'	84°33.3'	14.0'	S 0°37.4'	10.2'	55.4'
6	288°39.7'	269°40.3'	N 8°01.7'	99°06.2'	14.0'	S 0°47.6'	10.2'	55.4'
7	303°42.1'	284°40.4'	N 8°02.6'	113°39.2'	14.0'	S 0°57.7'	10.1'	55.4'
8	318°44.6'	299°40.6'	N 8°03.6'	128°12.2'	14.0'	S 1°07.9'	10.1'	55.3'
9	333°47.1'	314°40.8'	N 8°04.5'	142°45.2'	14.0'	S 1°18.0'	10.1'	55.3'
10	348°49.5'	329°41.0'	N 8°05.4'	157°18.2'	14.0'	S 1°28.1'	10.1'	55.3'
11	3°52.0'	344°41.1'	N 8°06.3'	171°51.3'	14.1'	S 1°38.3'	10.1'	55.3'
12	18°54.4'	359°41.3'	N 8°07.2'	186°24.3'	14.1'	S 1°48.4'	10.1'	55.3'
13	33°56.9'	14°41.5'	N 8°08.2'	200°57.4'	14.1'	S 1°58.4'	10.1'	55.3'
14	48°59.4'	29°41.6'	N 8°09.1'	215°30.4'	14.1'	S 2°08.5'	10.1'	55.2'
15	64°01.8'	44°41.8'	N 8°10.0'	230°03.5'	14.1'	S 2°18.6'	10.0'	55.2'
16	79°04.3'	59°42.0'	N 8°10.9'	244°36.6'	14.1'	S 2°28.6'	10.0'	55.2'
17	94°06.8'	74°42.1'	N 8°11.8'	259°09.7'	14.1'	S 2°38.6'	10.0'	55.2'
18	109°09.2'	89°42.3'	N 8°12.8'	273°42.9'	14.1'	S 2°48.6'	10.0'	55.2'
19	124°11.7'	104°42.5'	N 8°13.7'	288°16.0'	14.1'	S 2°58.6'	10.0'	55.2'
20	139°14.2'	119°42.6'	N 8°14.6'	302°49.1'	14.1'	S 3°08.6'	10.0'	55.1'
21	154°16.6'	134°42.8'	N 8°15.5'	317°22.3'	14.2'	S 3°18.5'	9.9'	55.1'
22	169°19.1'	149°43.0'	N 8°16.4'	331°55.4'	14.2'	S 3°28.5'	9.9'	55.1'
23	184°21.6'	164°43.1'	N 8°17.4'	346°28.6'	14.2'	S 3°38.4'	9.9'	55.1'

Tue Apr 11, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 16.0'		SD = 15.0'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	199°24.0'	179°43.3'	N 8°18.3'	1°01.7'	14.2'	S 3°48.3'	9.9'	55.1'
1	214°26.5'	194°43.5'	N 8°19.2'	15°34.9'	14.2'	S 3°58.1'	9.8'	55.1'
2	229°28.9'	209°43.6'	N 8°20.1'	30°08.1'	14.2'	S 4°08.0'	9.8'	55.0'
3	244°31.4'	224°43.8'	N 8°21.0'	44°41.3'	14.2'	S 4°17.8'	9.8'	55.0'
4	259°33.9'	239°43.9'	N 8°22.0'	59°14.5'	14.2'	S 4°27.6'	9.8'	55.0'
5	274°36.3'	254°44.1'	N 8°22.9'	73°47.6'	14.2'	S 4°37.4'	9.7'	55.0'
6	289°38.8'	269°44.3'	N 8°23.8'	88°20.8'	14.2'	S 4°47.1'	9.7'	55.0'
7	304°41.3'	284°44.4'	N 8°24.7'	102°54.0'	14.2'	S 4°56.8'	9.7'	55.0'
8	319°43.7'	299°44.6'	N 8°25.6'	117°27.2'	14.2'	S 5°06.5'	9.7'	54.9'
9	334°46.2'	314°44.8'	N 8°26.5'	132°00.4'	14.2'	S 5°16.2'	9.6'	54.9'
10	349°48.7'	329°44.9'	N 8°27.5'	146°33.7'	14.2'	S 5°25.8'	9.6'	54.9'
11	4°51.1'	344°45.1'	N 8°28.4'	161°06.9'	14.2'	S 5°35.4'	9.6'	54.9'
12	19°53.6'	359°45.3'	N 8°29.3'	175°40.1'	14.2'	S 5°45.0'	9.6'	54.9'
13	34°56.1'	14°45.4'	N 8°30.2'	190°13.3'	14.2'	S 5°54.6'	9.5'	54.9'
14	49°58.5'	29°45.6'	N 8°31.1'	204°46.5'	14.2'	S 6°04.1'	9.5'	54.9'
15	65°01.0'	44°45.8'	N 8°32.0'	219°19.7'	14.2'	S 6°13.6'	9.5'	54.8'
16	80°03.4'	59°45.9'	N 8°32.9'	233°52.9'	14.2'	S 6°23.0'	9.4'	54.8'
17	95°05.9'	74°46.1'	N 8°33.9'	248°26.1'	14.2'	S 6°32.5'	9.4'	54.8'
18	110°08.4'	89°46.3'	N 8°34.8'	262°59.3'	14.2'	S 6°41.8'	9.4'	54.8'
19	125°10.8'	104°46.4'	N 8°35.7'	277°32.5'	14.2'	S 6°51.2'	9.3'	54.8'
20	140°13.3'	119°46.6'	N 8°36.6'	292°05.7'	14.2'	S 7°00.5'	9.3'	54.8'
21	155°15.8'	134°46.7'	N 8°37.5'	306°38.9'	14.2'	S 7°09.8'	9.3'	54.8'
22	170°18.2'	149°46.9'	N 8°38.4'	321°12.1'	14.2'	S 7°19.1'	9.2'	54.7'
23	185°20.7'	164°47.1'	N 8°39.3'	335°45.3'	14.2'	S 7°28.3'	9.2'	54.7'

Wed Apr 12, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 16.0'		SD = 14.9'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	200°23.2'	179°47.2'	N 8°40.3'	350°18.5'	14.2'	S 7°37.5'	9.1'	54.7'
1	215°25.6'	194°47.4'	N 8°41.2'	4°51.6'	14.2'	S 7°46.6'	9.1'	54.7'
2	230°28.1'	209°47.6'	N 8°42.1'	19°24.8'	14.2'	S 7°55.7'	9.1'	54.7'
3	245°30.5'	224°47.7'	N 8°43.0'	33°58.0'	14.2'	S 8°04.8'	9.0'	54.7'
4	260°33.0'	239°47.9'	N 8°43.9'	48°31.1'	14.2'	S 8°13.8'	9.0'	54.7'
5	275°35.5'	254°48.0'	N 8°44.8'	63°04.3'	14.1'	S 8°22.8'	8.9'	54.6'
6	290°37.9'	269°48.2'	N 8°45.7'	77°37.4'	14.1'	S 8°31.7'	8.9'	54.6'
7	305°40.4'	284°48.4'	N 8°46.6'	92°10.6'	14.1'	S 8°40.6'	8.9'	54.6'
8	320°42.9'	299°48.5'	N 8°47.5'	106°43.7'	14.1'	S 8°49.5'	8.8'	54.6'
9	335°45.3'	314°48.7'	N 8°48.5'	121°16.8'	14.1'	S 8°58.3'	8.8'	54.6'
10	350°47.8'	329°48.9'	N 8°49.4'	135°49.9'	14.1'	S 9°07.1'	8.7'	54.6'
11	5°50.3'	344°49.0'	N 8°50.3'	150°23.1'	14.1'	S 9°15.8'	8.7'	54.6'
12	20°52.7'	359°49.2'	N 8°51.2'	164°56.1'	14.1'	S 9°24.5'	8.6'	54.6'
13	35°55.2'	14°49.3'	N 8°52.1'	179°29.2'	14.1'	S 9°33.2'	8.6'	54.5'
14	50°57.7'	29°49.5'	N 8°53.0'	194°02.3'	14.1'	S 9°41.8'	8.6'	54.5'
15	66°00.1'	44°49.7'	N 8°53.9'	208°35.4'	14.1'	S 9°50.3'	8.5'	54.5'
16	81°02.6'	59°49.8'	N 8°54.8'	223°08.4'	14.0'	S 9°58.8'	8.5'	54.5'
17	96°05.0'	74°50.0'	N 8°55.7'	237°41.5'	14.0'	S 10°07.3'	8.4'	54.5'
18	111°07.5'	89°50.1'	N 8°56.6'	252°14.5'	14.0'	S 10°15.7'	8.4'	54.5'
19	126°10.0'	104°50.3'	N 8°57.5'	266°47.5'	14.0'	S 10°24.1'	8.3'	54.5'
20	141°12.4'	119°50.5'	N 8°58.5'	281°20.5'	14.0'	S 10°32.4'	8.3'	54.5'
21	156°14.9'	134°50.6'	N 8°59.4'	295°53.5'	14.0'	S 10°40.7'	8.2'	54.4'
22	171°17.4'	149°50.8'	N 9°00.3'	310°26.5'	14.0'	S 10°48.9'	8.2'	54.4'
23	186°19.8'	164°50.9'	N 9°01.2'	324°59.5'	14.0'	S 10°57.1'	8.1'	54.4'

Thu Apr 13, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 15.9'		SD = 14.8'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	201°22.3'	179°51.1'	N 9°02.1'	339°32.5'	13.9'	S 11°05.2'	8.1'	54.4'
1	216°24.8'	194°51.3'	N 9°03.0'	354°05.4'	13.9'	S 11°13.2'	8.0'	54.4'
2	231°27.2'	209°51.4'	N 9°03.9'	8°38.3'	13.9'	S 11°21.3'	8.0'	54.4'
3	246°29.7'	224°51.6'	N 9°04.8'	23°11.3'	13.9'	S 11°29.2'	7.9'	54.4'
4	261°32.1'	239°51.7'	N 9°05.7'	37°44.2'	13.9'	S 11°37.1'	7.9'	54.4'
5	276°34.6'	254°51.9'	N 9°06.6'	52°17.1'	13.9'	S 11°45.0'	7.8'	54.4'
6	291°37.1'	269°52.1'	N 9°07.5'	66°49.9'	13.9'	S 11°52.8'	7.7'	54.3'
7	306°39.5'	284°52.2'	N 9°08.4'	81°22.8'	13.8'	S 12°00.5'	7.7'	54.3'
8	321°42.0'	299°52.4'	N 9°09.3'	95°55.6'	13.8'	S 12°08.2'	7.6'	54.3'
9	336°44.5'	314°52.5'	N 9°10.2'	110°28.5'	13.8'	S 12°15.9'	7.6'	54.3'
10	351°46.9'	329°52.7'	N 9°11.1'	125°01.3'	13.8'	S 12°23.5'	7.5'	54.3'
11	6°49.4'	344°52.8'	N 9°12.0'	139°34.1'	13.8'	S 12°31.0'	7.5'	54.3'
12	21°51.9'	359°53.0'	N 9°12.9'	154°06.8'	13.8'	S 12°38.5'	7.4'	54.3'
13	36°54.3'	14°53.2'	N 9°13.8'	168°39.6'	13.7'	S 12°45.9'	7.4'	54.3'
14	51°56.8'	29°53.3'	N 9°14.7'	183°12.3'	13.7'	S 12°53.2'	7.3'	54.3'
15	66°59.3'	44°53.5'	N 9°15.6'	197°45.1'	13.7'	S 13°00.5'	7.2'	54.3'
16	82°01.7'	59°53.6'	N 9°16.6'	212°17.8'	13.7'	S 13°07.8'	7.2'	54.3'
17	97°04.2'	74°53.8'	N 9°17.5'	226°50.5'	13.7'	S 13°14.9'	7.1'	54.2'
18	112°06.6'	89°53.9'	N 9°18.4'	241°23.1'	13.7'	S 13°22.1'	7.1'	54.2'
19	127°09.1'	104°54.1'	N 9°19.3'	255°55.8'	13.6'	S 13°29.1'	7.0'	54.2'
20	142°11.6'	119°54.3'	N 9°20.2'	270°28.4'	13.6'	S 13°36.1'	6.9'	54.2'
21	157°14.0'	134°54.4'	N 9°21.1'	285°01.1'	13.6'	S 13°43.0'	6.9'	54.2'
22	172°16.5'	149°54.6'	N 9°22.0'	299°33.7'	13.6'	S 13°49.9'	6.8'	54.2'
23	187°19.0'	164°54.7'	N 9°22.9'	314°06.2'	13.6'	S 13°56.7'	6.7'	54.2'

Fri Apr 14, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 15.9'		SD = 14.8'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	202°21.4'	179°54.9'	N 9°23.8'	328°38.8'	13.5'	S 14°03.5'	6.7'	54.2'
1	217°23.9'	194°55.0'	N 9°24.7'	343°11.4'	13.5'	S 14°10.2'	6.6'	54.2'
2	232°26.4'	209°55.2'	N 9°25.6'	357°43.9'	13.5'	S 14°16.8'	6.6'	54.2'
3	247°28.8'	224°55.4'	N 9°26.5'	12°16.4'	13.5'	S 14°23.3'	6.5'	54.2'
4	262°31.3'	239°55.5'	N 9°27.4'	26°48.9'	13.5'	S 14°29.8'	6.4'	54.2'
5	277°33.8'	254°55.7'	N 9°28.3'	41°21.3'	13.4'	S 14°36.3'	6.4'	54.2'
6	292°36.2'	269°55.8'	N 9°29.2'	55°53.8'	13.4'	S 14°42.6'	6.3'	54.2'
7	307°38.7'	284°56.0'	N 9°30.1'	70°26.2'	13.4'	S 14°48.9'	6.2'	54.2'
8	322°41.1'	299°56.1'	N 9°31.0'	84°58.6'	13.4'	S 14°55.1'	6.2'	54.1'
9	337°43.6'	314°56.3'	N 9°31.8'	99°31.0'	13.4'	S 15°01.3'	6.1'	54.1'
10	352°46.1'	329°56.4'	N 9°32.7'	114°03.4'	13.3'	S 15°07.4'	6.0'	54.1'
11	7°48.5'	344°56.6'	N 9°33.6'	128°35.7'	13.3'	S 15°13.4'	6.0'	54.1'
12	22°51.0'	359°56.7'	N 9°34.5'	143°08.0'	13.3'	S 15°19.4'	5.9'	54.1'
13	37°53.5'	14°56.9'	N 9°35.4'	157°40.3'	13.3'	S 15°25.3'	5.8'	54.1'
14	52°55.9'	29°57.1'	N 9°36.3'	172°12.6'	13.3'	S 15°31.1'	5.8'	54.1'
15	67°58.4'	44°57.2'	N 9°37.2'	186°44.9'	13.2'	S 15°36.8'	5.7'	54.1'
16	83°00.9'	59°57.4'	N 9°38.1'	201°17.1'	13.2'	S 15°42.5'	5.6'	54.1'
17	98°03.3'	74°57.5'	N 9°39.0'	215°49.4'	13.2'	S 15°48.1'	5.5'	54.1'
18	113°05.8'	89°57.7'	N 9°39.9'	230°21.6'	13.2'	S 15°53.7'	5.5'	54.1'
19	128°08.2'	104°57.8'	N 9°40.8'	244°53.7'	13.2'	S 15°59.2'	5.4'	54.1'
20	143°10.7'	119°58.0'	N 9°41.7'	259°25.9'	13.1'	S 16°04.6'	5.3'	54.1'
21	158°13.2'	134°58.1'	N 9°42.6'	273°58.0'	13.1'	S 16°09.9'	5.3'	54.1'
22	173°15.6'	149°58.3'	N 9°43.5'	288°30.2'	13.1'	S 16°15.1'	5.2'	54.1'
23	188°18.1'	164°58.4'	N 9°44.4'	303°02.2'	13.1'	S 16°20.3'	5.1'	54.1'

Sat Apr 15, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 15.9'		SD = 14.8'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	203°20.6'	179°58.6'	N 9°45.3'	317°34.3'	13.1'	S 16°25.4'	5.0'	54.1'
1	218°23.0'	194°58.7'	N 9°46.2'	332°06.4'	13.0'	S 16°30.5'	5.0'	54.1'
2	233°25.5'	209°58.9'	N 9°47.1'	346°38.4'	13.0'	S 16°35.4'	4.9'	54.1'
3	248°28.0'	224°59.0'	N 9°48.0'	1°10.4'	13.0'	S 16°40.3'	4.8'	54.1'
4	263°30.4'	239°59.2'	N 9°48.9'	15°42.4'	13.0'	S 16°45.1'	4.7'	54.1'
5	278°32.9'	254°59.3'	N 9°49.7'	30°14.4'	12.9'	S 16°49.8'	4.7'	54.1'
6	293°35.4'	269°59.5'	N 9°50.6'	44°46.3'	12.9'	S 16°54.5'	4.6'	54.1'
7	308°37.8'	284°59.6'	N 9°51.5'	59°18.2'	12.9'	S 16°59.1'	4.5'	54.1'
8	323°40.3'	299°59.8'	N 9°52.4'	73°50.2'	12.9'	S 17°03.6'	4.4'	54.1'
9	338°42.7'	314°59.9'	N 9°53.3'	88°22.0'	12.9'	S 17°08.0'	4.4'	54.1'
10	353°45.2'	330°00.1'	N 9°54.2'	102°53.9'	12.8'	S 17°12.4'	4.3'	54.1'
11	8°47.7'	345°00.2'	N 9°55.1'	117°25.7'	12.8'	S 17°16.7'	4.2'	54.1'
12	23°50.1'	0°00.4'	N 9°56.0'	131°57.6'	12.8'	S 17°20.9'	4.1'	54.1'
13	38°52.6'	15°00.5'	N 9°56.9'	146°29.4'	12.8'	S 17°25.0'	4.0'	54.1'
14	53°55.1'	30°00.7'	N 9°57.8'	161°01.1'	12.8'	S 17°29.0'	4.0'	54.1'
15	68°57.5'	45°00.8'	N 9°58.7'	175°32.9'	12.7'	S 17°33.0'	3.9'	54.1'
16	83°60.0'	60°01.0'	N 9°59.5'	190°04.6'	12.7'	S 17°36.9'	3.8'	54.1'
17	99°02.5'	75°01.1'	N 10°00.4'	204°36.4'	12.7'	S 17°40.7'	3.7'	54.1'
18	114°04.9'	90°01.3'	N 10°01.3'	219°08.0'	12.7'	S 17°44.4'	3.6'	54.1'
19	129°07.4'	105°01.4'	N 10°02.2'	233°39.7'	12.7'	S 17°48.1'	3.6'	54.1'
20	144°09.9'	120°01.6'	N 10°03.1'	248°11.4'	12.6'	S 17°51.7'	3.5'	54.1'
21	159°12.3'	135°01.7'	N 10°04.0'	262°43.0'	12.6'	S 17°55.1'	3.4'	54.1'
22	174°14.8'	150°01.9'	N 10°04.9'	277°14.6'	12.6'	S 17°58.6'	3.3'	54.1'
23	189°17.2'	165°02.0'	N 10°05.8'	291°46.2'	12.6'	S 18°01.9'	3.2'	54.1'

Sun Apr 16, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 15.9'		SD = 14.8'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	204°19.7'	180°02.2'	N 10°06.6'	306°17.8'	12.6'	S 18°05.1'	3.2'	54.1'
1	219°22.2'	195°02.3'	N 10°07.5'	320°49.3'	12.5'	S 18°08.3'	3.1'	54.1'
2	234°24.6'	210°02.5'	N 10°08.4'	335°20.9'	12.5'	S 18°11.4'	3.0'	54.1'
3	249°27.1'	225°02.6'	N 10°09.3'	349°52.4'	12.5'	S 18°14.4'	2.9'	54.1'
4	264°29.6'	240°02.8'	N 10°10.2'	4°23.9'	12.5'	S 18°17.3'	2.8'	54.1'
5	279°32.0'	255°02.9'	N 10°11.1'	18°55.4'	12.5'	S 18°20.1'	2.8'	54.1'
6	294°34.5'	270°03.1'	N 10°12.0'	33°26.8'	12.4'	S 18°22.9'	2.7'	54.1'
7	309°37.0'	285°03.2'	N 10°12.8'	47°58.3'	12.4'	S 18°25.5'	2.6'	54.1'
8	324°39.4'	300°03.4'	N 10°13.7'	62°29.7'	12.4'	S 18°28.1'	2.5'	54.1'
9	339°41.9'	315°03.5'	N 10°14.6'	77°01.1'	12.4'	S 18°30.6'	2.4'	54.1'
10	354°44.3'	330°03.7'	N 10°15.5'	91°32.4'	12.4'	S 18°33.1'	2.3'	54.2'
11	9°46.8'	345°03.8'	N 10°16.4'	106°03.8'	12.3'	S 18°35.4'	2.2'	54.2'
12	24°49.3'	0°04.0'	N 10°17.3'	120°35.2'	12.3'	S 18°37.6'	2.2'	54.2'
13	39°51.7'	15°04.1'	N 10°18.1'	135°06.5'	12.3'	S 18°39.8'	2.1'	54.2'
14	54°54.2'	30°04.3'	N 10°19.0'	149°37.8'	12.3'	S 18°41.9'	2.0'	54.2'
15	69°56.7'	45°04.4'	N 10°19.9'	164°09.1'	12.3'	S 18°43.9'	1.9'	54.2'
16	84°59.1'	60°04.5'	N 10°20.8'	178°40.3'	12.3'	S 18°45.8'	1.8'	54.2'
17	100°01.6'	75°04.7'	N 10°21.7'	193°11.6'	12.2'	S 18°47.6'	1.7'	54.2'
18	115°04.1'	90°04.8'	N 10°22.6'	207°42.8'	12.2'	S 18°49.3'	1.7'	54.2'
19	130°06.5'	105°05.0'	N 10°23.4'	222°14.0'	12.2'	S 18°51.0'	1.6'	54.2'
20	145°09.0'	120°05.1'	N 10°24.3'	236°45.2'	12.2'	S 18°52.6'	1.5'	54.2'
21	160°11.5'	135°05.3'	N 10°25.2'	251°16.4'	12.2'	S 18°54.0'	1.4'	54.2'
22	175°13.9'	150°05.4'	N 10°26.1'	265°47.6'	12.1'	S 18°55.4'	1.3'	54.2'
23	190°16.4'	165°05.6'	N 10°27.0'	280°18.7'	12.1'	S 18°56.7'	1.2'	54.3'

Mon Apr 17, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 15.9'		SD = 14.8'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	205°18.8'	180°05.7'	N 10°27.8'	294°49.9'	12.1'	S 18°57.9'	1.1'	54.3'
1	220°21.3'	195°05.9'	N 10°28.7'	309°21.0'	12.1'	S 18°59.1'	1.0'	54.3'
2	235°23.8'	210°06.0'	N 10°29.6'	323°52.1'	12.1'	S 19°00.1'	1.0'	54.3'
3	250°26.2'	225°06.1'	N 10°30.5'	338°23.2'	12.1'	S 19°01.1'	0.9'	54.3'
4	265°28.7'	240°06.3'	N 10°31.4'	352°54.2'	12.1'	S 19°01.9'	0.8'	54.3'
5	280°31.2'	255°06.4'	N 10°32.2'	7°25.3'	12.0'	S 19°02.7'	0.7'	54.3'
6	295°33.6'	270°06.6'	N 10°33.1'	21°56.3'	12.0'	S 19°03.4'	0.6'	54.3'
7	310°36.1'	285°06.7'	N 10°34.0'	36°27.4'	12.0'	S 19°04.0'	0.5'	54.3'
8	325°38.6'	300°06.9'	N 10°34.9'	50°58.4'	12.0'	S 19°04.5'	0.4'	54.4'
9	340°41.0'	315°07.0'	N 10°35.7'	65°29.4'	12.0'	S 19°04.9'	0.3'	54.4'
10	355°43.5'	330°07.1'	N 10°36.6'	80°00.3'	12.0'	S 19°05.3'	0.2'	54.4'
11	10°46.0'	345°07.3'	N 10°37.5'	94°31.3'	11.9'	S 19°05.5'	0.2'	54.4'
12	25°48.4'	0°07.4'	N 10°38.4'	109°02.2'	11.9'	S 19°05.7'	0.1'	54.4'
13	40°50.9'	15°07.6'	N 10°39.3'	123°33.2'	11.9'	S 19°05.8'	0.0'	54.4'
14	55°53.3'	30°07.7'	N 10°40.1'	138°04.1'	11.9'	S 19°05.7'	0.1'	54.4'
15	70°55.8'	45°07.9'	N 10°41.0'	152°35.0'	11.9'	S 19°05.6'	0.2'	54.4'
16	85°58.3'	60°08.0'	N 10°41.9'	167°05.9'	11.9'	S 19°05.4'	0.3'	54.5'
17	101°00.7'	75°08.1'	N 10°42.8'	181°36.8'	11.9'	S 19°05.1'	0.4'	54.5'
18	116°03.2'	90°08.3'	N 10°43.6'	196°07.7'	11.9'	S 19°04.8'	0.5'	54.5'
19	131°05.7'	105°08.4'	N 10°44.5'	210°38.5'	11.8'	S 19°04.3'	0.6'	54.5'
20	146°08.1'	120°08.6'	N 10°45.4'	225°09.4'	11.8'	S 19°03.7'	0.6'	54.5'
21	161°10.6'	135°08.7'	N 10°46.2'	239°40.2'	11.8'	S 19°03.1'	0.7'	54.5'
22	176°13.1'	150°08.8'	N 10°47.1'	254°11.0'	11.8'	S 19°02.3'	0.8'	54.5'
23	191°15.5'	165°09.0'	N 10°48.0'	268°41.8'	11.8'	S 19°01.5'	0.9'	54.6'

Tue Apr 18, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 15.9'		SD = 14.9'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	206°18.0'	180°09.1'	N 10°48.9'	283°12.6'	11.8'	S 19°00.6'	1.0'	54.6'
1	221°20.5'	195°09.3'	N 10°49.7'	297°43.4'	11.8'	S 18°59.6'	1.1'	54.6'
2	236°22.9'	210°09.4'	N 10°50.6'	312°14.2'	11.8'	S 18°58.5'	1.2'	54.6'
3	251°25.4'	225°09.5'	N 10°51.5'	326°44.9'	11.8'	S 18°57.3'	1.3'	54.6'
4	266°27.8'	240°09.7'	N 10°52.4'	341°15.7'	11.7'	S 18°56.0'	1.4'	54.7'
5	281°30.3'	255°09.8'	N 10°53.2'	355°46.4'	11.7'	S 18°54.6'	1.5'	54.7'
6	296°32.8'	270°10.0'	N 10°54.1'	10°17.2'	11.7'	S 18°53.2'	1.6'	54.7'
7	311°35.2'	285°10.1'	N 10°55.0'	24°47.9'	11.7'	S 18°51.6'	1.6'	54.7'
8	326°37.7'	300°10.2'	N 10°55.8'	39°18.6'	11.7'	S 18°50.0'	1.7'	54.7'
9	341°40.2'	315°10.4'	N 10°56.7'	53°49.3'	11.7'	S 18°48.3'	1.8'	54.7'
10	356°42.6'	330°10.5'	N 10°57.6'	68°20.0'	11.7'	S 18°46.4'	1.9'	54.8'
11	11°45.1'	345°10.7'	N 10°58.4'	82°50.7'	11.7'	S 18°44.5'	2.0'	54.8'
12	26°47.6'	0°10.8'	N 10°59.3'	97°21.3'	11.7'	S 18°42.5'	2.1'	54.8'
13	41°50.0'	15°10.9'	N 11°00.2'	111°52.0'	11.7'	S 18°40.4'	2.2'	54.8'
14	56°52.5'	30°11.1'	N 11°01.0'	126°22.7'	11.6'	S 18°38.2'	2.3'	54.8'
15	71°54.9'	45°11.2'	N 11°01.9'	140°53.3'	11.6'	S 18°36.0'	2.4'	54.9'
16	86°57.4'	60°11.3'	N 11°02.8'	155°23.9'	11.6'	S 18°33.6'	2.5'	54.9'
17	101°59.9'	75°11.5'	N 11°03.7'	169°54.6'	11.6'	S 18°31.1'	2.5'	54.9'
18	117°02.3'	90°11.6'	N 11°04.5'	184°25.2'	11.6'	S 18°28.6'	2.6'	54.9'
19	132°04.8'	105°11.8'	N 11°05.4'	198°55.8'	11.6'	S 18°25.9'	2.7'	55.0'
20	147°07.3'	120°11.9'	N 11°06.3'	213°26.4'	11.6'	S 18°23.2'	2.8'	55.0'
21	162°09.7'	135°12.0'	N 11°07.1'	227°57.0'	11.6'	S 18°20.4'	2.9'	55.0'
22	177°12.2'	150°12.2'	N 11°08.0'	242°27.6'	11.6'	S 18°17.5'	3.0'	55.0'
23	192°14.7'	165°12.3'	N 11°08.8'	256°58.2'	11.6'	S 18°14.5'	3.1'	55.0'

Wed Apr 19, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 15.9'		SD = 15.1'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	207°17.1'	180°12.4'	N 11°09.7'	271°28.7'	11.6'	S 18°11.4'	3.2'	55.1'
1	222°19.6'	195°12.6'	N 11°10.6'	285°59.3'	11.6'	S 18°08.2'	3.3'	55.1'
2	237°22.1'	210°12.7'	N 11°11.4'	300°29.9'	11.6'	S 18°04.9'	3.4'	55.1'
3	252°24.5'	225°12.8'	N 11°12.3'	315°00.4'	11.5'	S 18°01.6'	3.5'	55.1'
4	267°27.0'	240°13.0'	N 11°13.2'	329°31.0'	11.5'	S 17°58.1'	3.5'	55.2'
5	282°29.4'	255°13.1'	N 11°14.0'	344°01.5'	11.5'	S 17°54.6'	3.6'	55.2'
6	297°31.9'	270°13.2'	N 11°14.9'	358°32.0'	11.5'	S 17°50.9'	3.7'	55.2'
7	312°34.4'	285°13.4'	N 11°15.8'	13°02.5'	11.5'	S 17°47.2'	3.8'	55.2'
8	327°36.8'	300°13.5'	N 11°16.6'	27°33.1'	11.5'	S 17°43.4'	3.9'	55.3'
9	342°39.3'	315°13.6'	N 11°17.5'	42°03.6'	11.5'	S 17°39.5'	4.0'	55.3'
10	357°41.8'	330°13.8'	N 11°18.3'	56°34.1'	11.5'	S 17°35.5'	4.1'	55.3'
11	12°44.2'	345°13.9'	N 11°19.2'	71°04.6'	11.5'	S 17°31.4'	4.2'	55.3'
12	27°46.7'	0°14.0'	N 11°20.1'	85°35.1'	11.5'	S 17°27.2'	4.3'	55.4'
13	42°49.2'	15°14.2'	N 11°20.9'	100°05.6'	11.5'	S 17°23.0'	4.3'	55.4'
14	57°51.6'	30°14.3'	N 11°21.8'	114°36.0'	11.5'	S 17°18.6'	4.4'	55.4'
15	72°54.1'	45°14.4'	N 11°22.6'	129°06.5'	11.5'	S 17°14.2'	4.5'	55.4'
16	87°56.6'	60°14.6'	N 11°23.5'	143°37.0'	11.5'	S 17°09.7'	4.6'	55.5'
17	102°59.0'	75°14.7'	N 11°24.4'	158°07.5'	11.5'	S 17°05.1'	4.7'	55.5'
18	118°01.5'	90°14.8'	N 11°25.2'	172°37.9'	11.5'	S 17°00.4'	4.8'	55.5'
19	133°03.9'	105°15.0'	N 11°26.1'	187°08.4'	11.4'	S 16°55.6'	4.9'	55.6'
20	148°06.4'	120°15.1'	N 11°26.9'	201°38.8'	11.4'	S 16°50.7'	5.0'	55.6'
21	163°08.9'	135°15.2'	N 11°27.8'	216°09.3'	11.4'	S 16°45.7'	5.1'	55.6'
22	178°11.3'	150°15.4'	N 11°28.7'	230°39.7'	11.4'	S 16°40.7'	5.1'	55.6'
23	193°13.8'	165°15.5'	N 11°29.5'	245°10.1'	11.4'	S 16°35.5'	5.2'	55.7'

Thu Apr 20, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 15.9'		SD = 15.3'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	208°16.3'	180°15.6'	N 11°30.4'	259°40.5'	11.4'	S 16°30.3'	5.3'	55.7'
1	223°18.7'	195°15.8'	N 11°31.2'	274°11.0'	11.4'	S 16°25.0'	5.4'	55.7'
2	238°21.2'	210°15.9'	N 11°32.1'	288°41.4'	11.4'	S 16°19.6'	5.5'	55.8'
3	253°23.7'	225°16.0'	N 11°32.9'	303°11.8'	11.4'	S 16°14.1'	5.6'	55.8'
4	268°26.1'	240°16.2'	N 11°33.8'	317°42.2'	11.4'	S 16°08.5'	5.7'	55.8'
5	283°28.6'	255°16.3'	N 11°34.7'	332°12.6'	11.4'	S 16°02.8'	5.7'	55.9'
6	298°31.0'	270°16.4'	N 11°35.5'	346°43.0'	11.4'	S 15°57.1'	5.8'	55.9'
7	313°33.5'	285°16.6'	N 11°36.4'	1°13.4'	11.4'	S 15°51.3'	5.9'	55.9'
8	328°36.0'	300°16.7'	N 11°37.2'	15°43.8'	11.4'	S 15°45.3'	6.0'	56.0'
9	343°38.4'	315°16.8'	N 11°38.1'	30°14.1'	11.4'	S 15°39.3'	6.1'	56.0'
10	358°40.9'	330°16.9'	N 11°38.9'	44°44.5'	11.4'	S 15°33.2'	6.2'	56.0'
11	13°43.4'	345°17.1'	N 11°39.8'	59°14.9'	11.4'	S 15°27.1'	6.3'	56.0'
12	28°45.8'	0°17.2'	N 11°40.6'	73°45.2'	11.4'	S 15°20.8'	6.3'	56.1'
13	43°48.3'	15°17.3'	N 11°41.5'	88°15.6'	11.3'	S 15°14.5'	6.4'	56.1'
14	58°50.8'	30°17.5'	N 11°42.3'	102°45.9'	11.3'	S 15°08.0'	6.5'	56.1'
15	73°53.2'	45°17.6'	N 11°43.2'	117°16.3'	11.3'	S 15°01.5'	6.6'	56.2'
16	88°55.7'	60°17.7'	N 11°44.0'	131°46.6'	11.3'	S 14°54.9'	6.7'	56.2'
17	103°58.2'	75°17.8'	N 11°44.9'	146°16.9'	11.3'	S 14°48.3'	6.8'	56.2'
18	119°00.6'	90°18.0'	N 11°45.8'	160°47.2'	11.3'	S 14°41.5'	6.8'	56.3'
19	134°03.1'	105°18.1'	N 11°46.6'	175°17.6'	11.3'	S 14°34.7'	6.9'	56.3'
20	149°05.5'	120°18.2'	N 11°47.5'	189°47.9'	11.3'	S 14°27.7'	7.0'	56.3'
21	164°08.0'	135°18.4'	N 11°48.3'	204°18.2'	11.3'	S 14°20.7'	7.1'	56.4'
22	179°10.5'	150°18.5'	N 11°49.2'	218°48.5'	11.3'	S 14°13.6'	7.2'	56.4'
23	194°12.9'	165°18.6'	N 11°50.0'	233°18.8'	11.3'	S 14°06.5'	7.2'	56.4'

Fri Apr 21, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.8' SD = 15.9'		SD = 15.5'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	209°15.4'	180°18.7'	N 11°50.9'	247°49.0'	11.3'	S 13°59.2'	7.3'	56.5'
1	224°17.9'	195°18.9'	N 11°51.7'	262°19.3'	11.3'	S 13°51.9'	7.4'	56.5'
2	239°20.3'	210°19.0'	N 11°52.6'	276°49.6'	11.3'	S 13°44.5'	7.5'	56.6'
3	254°22.8'	225°19.1'	N 11°53.4'	291°19.8'	11.3'	S 13°37.0'	7.6'	56.6'
4	269°25.3'	240°19.2'	N 11°54.2'	305°50.1'	11.2'	S 13°29.4'	7.6'	56.6'
5	284°27.7'	255°19.4'	N 11°55.1'	320°20.3'	11.2'	S 13°21.8'	7.7'	56.7'
6	299°30.2'	270°19.5'	N 11°55.9'	334°50.6'	11.2'	S 13°14.1'	7.8'	56.7'
7	314°32.7'	285°19.6'	N 11°56.8'	349°20.8'	11.2'	S 13°06.3'	7.9'	56.7'
8	329°35.1'	300°19.7'	N 11°57.6'	3°51.0'	11.2'	S 12°58.4'	8.0'	56.8'
9	344°37.6'	315°19.9'	N 11°58.5'	18°21.2'	11.2'	S 12°50.4'	8.0'	56.8'
10	359°40.0'	330°20.0'	N 11°59.3'	32°51.4'	11.2'	S 12°42.4'	8.1'	56.8'
11	14°42.5'	345°20.1'	N 12°00.2'	47°21.6'	11.2'	S 12°34.3'	8.2'	56.9'
12	29°45.0'	0°20.2'	N 12°01.0'	61°51.8'	11.2'	S 12°26.1'	8.3'	56.9'
13	44°47.4'	15°20.4'	N 12°01.9'	76°22.0'	11.2'	S 12°17.9'	8.3'	57.0'
14	59°49.9'	30°20.5'	N 12°02.7'	90°52.1'	11.2'	S 12°09.5'	8.4'	57.0'
15	74°52.4'	45°20.6'	N 12°03.6'	105°22.3'	11.1'	S 12°01.1'	8.5'	57.0'
16	89°54.8'	60°20.7'	N 12°04.4'	119°52.4'	11.1'	S 11°52.6'	8.6'	57.1'
17	104°57.3'	75°20.9'	N 12°05.2'	134°22.6'	11.1'	S 11°44.1'	8.6'	57.1'
18	119°59.8'	90°21.0'	N 12°06.1'	148°52.7'	11.1'	S 11°35.5'	8.7'	57.1'
19	135°02.2'	105°21.1'	N 12°06.9'	163°22.8'	11.1'	S 11°26.8'	8.8'	57.2'
20	150°04.7'	120°21.2'	N 12°07.8'	177°52.9'	11.1'	S 11°18.0'	8.8'	57.2'
21	165°07.1'	135°21.3'	N 12°08.6'	192°23.0'	11.1'	S 11°09.2'	8.9'	57.3'
22	180°09.6'	150°21.5'	N 12°09.5'	206°53.1'	11.1'	S 11°00.2'	9.0'	57.3'
23	195°12.1'	165°21.6'	N 12°10.3'	221°23.1'	11.0'	S 10°51.3'	9.0'	57.3'

Sat Apr 22, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.8' SD = 15.9'		SD = 15.8'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	210°14.5'	180°21.7'	N 12°11.1'	235°53.2'	11.0'	S 10°42.2'	9.1'	57.4'
1	225°17.0'	195°21.8'	N 12°12.0'	250°23.2'	11.0'	S 10°33.1'	9.2'	57.4'
2	240°19.5'	210°22.0'	N 12°12.8'	264°53.2'	11.0'	S 10°23.9'	9.3'	57.4'
3	255°21.9'	225°22.1'	N 12°13.7'	279°23.2'	11.0'	S 10°14.7'	9.3'	57.5'
4	270°24.4'	240°22.2'	N 12°14.5'	293°53.2'	11.0'	S 10°05.3'	9.4'	57.5'
5	285°26.9'	255°22.3'	N 12°15.3'	308°23.2'	11.0'	S 9°55.9'	9.5'	57.6'
6	300°29.3'	270°22.4'	N 12°16.2'	322°53.2'	11.0'	S 9°46.5'	9.5'	57.6'
7	315°31.8'	285°22.6'	N 12°17.0'	337°23.1'	10.9'	S 9°37.0'	9.6'	57.6'
8	330°34.3'	300°22.7'	N 12°17.9'	351°53.1'	10.9'	S 9°27.4'	9.6'	57.7'
9	345°36.7'	315°22.8'	N 12°18.7'	6°23.0'	10.9'	S 9°17.7'	9.7'	57.7'
10	0°39.2'	330°22.9'	N 12°19.5'	20°52.9'	10.9'	S 9°08.0'	9.8'	57.8'
11	15°41.6'	345°23.0'	N 12°20.4'	35°22.8'	10.9'	S 8°58.3'	9.8'	57.8'
12	30°44.1'	0°23.2'	N 12°21.2'	49°52.6'	10.9'	S 8°48.4'	9.9'	57.8'
13	45°46.6'	15°23.3'	N 12°22.0'	64°22.5'	10.8'	S 8°38.5'	10.0'	57.9'
14	60°49.0'	30°23.4'	N 12°22.9'	78°52.3'	10.8'	S 8°28.6'	10.0'	57.9'
15	75°51.5'	45°23.5'	N 12°23.7'	93°22.1'	10.8'	S 8°18.6'	10.1'	58.0'
16	90°54.0'	60°23.6'	N 12°24.5'	107°51.9'	10.8'	S 8°08.5'	10.1'	58.0'
17	105°56.4'	75°23.8'	N 12°25.4'	122°21.7'	10.8'	S 7°58.4'	10.2'	58.0'
18	120°58.9'	90°23.9'	N 12°26.2'	136°51.5'	10.7'	S 7°48.2'	10.2'	58.1'
19	136°01.4'	105°24.0'	N 12°27.1'	151°21.2'	10.7'	S 7°37.9'	10.3'	58.1'
20	151°03.8'	120°24.1'	N 12°27.9'	165°50.9'	10.7'	S 7°27.6'	10.4'	58.1'
21	166°06.3'	135°24.2'	N 12°28.7'	180°20.6'	10.7'	S 7°17.3'	10.4'	58.2'
22	181°08.8'	150°24.3'	N 12°29.6'	194°50.3'	10.7'	S 7°06.8'	10.5'	58.2'
23	196°11.2'	165°24.5'	N 12°30.4'	209°20.0'	10.6'	S 6°56.4'	10.5'	58.3'

Sun Apr 23, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.8' SD = 15.9'		SD = 16.0'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	211°13.7'	180°24.6'	N 12°31.2'	223°49.6'	10.6'	S 6°45.9'	10.6'	58.3'
1	226°16.1'	195°24.7'	N 12°32.1'	238°19.2'	10.6'	S 6°35.3'	10.6'	58.3'
2	241°18.6'	210°24.8'	N 12°32.9'	252°48.8'	10.6'	S 6°24.7'	10.7'	58.4'
3	256°21.1'	225°24.9'	N 12°33.7'	267°18.4'	10.5'	S 6°14.0'	10.7'	58.4'
4	271°23.5'	240°25.0'	N 12°34.5'	281°47.9'	10.5'	S 6°03.3'	10.8'	58.5'
5	286°26.0'	255°25.2'	N 12°35.4'	296°17.4'	10.5'	S 5°52.5'	10.8'	58.5'
6	301°28.5'	270°25.3'	N 12°36.2'	310°46.9'	10.5'	S 5°41.7'	10.9'	58.5'
7	316°30.9'	285°25.4'	N 12°37.0'	325°16.4'	10.4'	S 5°30.8'	10.9'	58.6'
8	331°33.4'	300°25.5'	N 12°37.9'	339°45.8'	10.4'	S 5°19.9'	11.0'	58.6'
9	346°35.9'	315°25.6'	N 12°38.7'	354°15.2'	10.4'	S 5°09.0'	11.0'	58.7'
10	1°38.3'	330°25.7'	N 12°39.5'	8°44.6'	10.4'	S 4°58.0'	11.0'	58.7'
11	16°40.8'	345°25.9'	N 12°40.4'	23°14.0'	10.3'	S 4°46.9'	11.1'	58.7'
12	31°43.2'	0°26.0'	N 12°41.2'	37°43.3'	10.3'	S 4°35.8'	11.1'	58.8'
13	46°45.7'	15°26.1'	N 12°42.0'	52°12.6'	10.3'	S 4°24.7'	11.2'	58.8'
14	61°48.2'	30°26.2'	N 12°42.8'	66°41.9'	10.2'	S 4°13.6'	11.2'	58.8'
15	76°50.6'	45°26.3'	N 12°43.7'	81°11.1'	10.2'	S 4°02.4'	11.2'	58.9'
16	91°53.1'	60°26.4'	N 12°44.5'	95°40.4'	10.2'	S 3°51.1'	11.3'	58.9'
17	106°55.6'	75°26.5'	N 12°45.3'	110°09.6'	10.2'	S 3°39.8'	11.3'	59.0'
18	121°58.0'	90°26.6'	N 12°46.1'	124°38.7'	10.1'	S 3°28.5'	11.3'	59.0'
19	137°00.5'	105°26.8'	N 12°47.0'	139°07.8'	10.1'	S 3°17.2'	11.4'	59.0'
20	152°03.0'	120°26.9'	N 12°47.8'	153°36.9'	10.1'	S 3°05.8'	11.4'	59.1'
21	167°05.4'	135°27.0'	N 12°48.6'	168°06.0'	10.0'	S 2°54.4'	11.4'	59.1'
22	182°07.9'	150°27.1'	N 12°49.4'	182°35.0'	10.0'	S 2°42.9'	11.5'	59.1'
23	197°10.4'	165°27.2'	N 12°50.3'	197°04.0'	10.0'	S 2°31.4'	11.5'	59.2'

Mon Apr 24, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.8' SD = 15.9'		SD = 16.3'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	212°12.8'	180°27.3'	N 12°51.1'	211°33.0'	9.9'	S 2°19.9'	11.5'	59.2'
1	227°15.3'	195°27.4'	N 12°51.9'	226°01.9'	9.9'	S 2°08.4'	11.6'	59.3'
2	242°17.7'	210°27.5'	N 12°52.7'	240°30.8'	9.9'	S 1°56.8'	11.6'	59.3'
3	257°20.2'	225°27.7'	N 12°53.6'	254°59.6'	9.8'	S 1°45.2'	11.6'	59.3'
4	272°22.7'	240°27.8'	N 12°54.4'	269°28.5'	9.8'	S 1°33.6'	11.6'	59.4'
5	287°25.1'	255°27.9'	N 12°55.2'	283°57.2'	9.7'	S 1°22.0'	11.7'	59.4'
6	302°27.6'	270°28.0'	N 12°56.0'	298°26.0'	9.7'	S 1°10.3'	11.7'	59.4'
7	317°30.1'	285°28.1'	N 12°56.9'	312°54.7'	9.7'	S 0°58.6'	11.7'	59.5'
8	332°32.5'	300°28.2'	N 12°57.7'	327°23.4'	9.6'	S 0°46.9'	11.7'	59.5'
9	347°35.0'	315°28.3'	N 12°58.5'	341°52.0'	9.6'	S 0°35.2'	11.7'	59.5'
10	2°37.5'	330°28.4'	N 12°59.3'	356°20.6'	9.6'	S 0°23.5'	11.8'	59.6'
11	17°39.9'	345°28.5'	N 13°00.1'	10°49.2'	9.5'	S 0°11.7'	11.8'	59.6'
12	32°42.4'	0°28.7'	N 13°01.0'	25°17.7'	9.5'	N 0°00.1'	11.8'	59.6'
13	47°44.8'	15°28.8'	N 13°01.8'	39°46.1'	9.4'	N 0°11.9'	11.8'	59.7'
14	62°47.3'	30°28.9'	N 13°02.6'	54°14.6'	9.4'	N 0°23.7'	11.8'	59.7'
15	77°49.8'	45°29.0'	N 13°03.4'	68°43.0'	9.4'	N 0°35.5'	11.8'	59.7'
16	92°52.2'	60°29.1'	N 13°04.2'	83°11.3'	9.3'	N 0°47.3'	11.8'	59.8'
17	107°54.7'	75°29.2'	N 13°05.1'	97°39.6'	9.3'	N 0°59.1'	11.8'	59.8'
18	122°57.2'	90°29.3'	N 13°05.9'	112°07.9'	9.2'	N 1°11.0'	11.8'	59.8'
19	137°59.6'	105°29.4'	N 13°06.7'	126°36.1'	9.2'	N 1°22.8'	11.9'	59.9'
20	153°02.1'	120°29.5'	N 13°07.5'	141°04.3'	9.1'	N 1°34.7'	11.9'	59.9'
21	168°04.6'	135°29.6'	N 13°08.3'	155°32.4'	9.1'	N 1°46.5'	11.9'	59.9'
22	183°07.0'	150°29.7'	N 13°09.1'	170°00.5'	9.0'	N 1°58.4'	11.9'	60.0'
23	198°09.5'	165°29.8'	N 13°10.0'	184°28.6'	9.0'	N 2°10.3'	11.9'	60.0'

Tue Apr 25, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.8' SD = 15.9'		SD = 16.5'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	213°12.0'	180°29.9'	N 13°10.8'	198°56.6'	9.0'	N 2°22.1'	11.9'	60.0'
1	228°14.4'	195°30.1'	N 13°11.6'	213°24.5'	8.9'	N 2°34.0'	11.9'	60.0'
2	243°16.9'	210°30.2'	N 13°12.4'	227°52.4'	8.9'	N 2°45.9'	11.9'	60.1'
3	258°19.3'	225°30.3'	N 13°13.2'	242°20.3'	8.8'	N 2°57.7'	11.8'	60.1'
4	273°21.8'	240°30.4'	N 13°14.0'	256°48.1'	8.8'	N 3°09.6'	11.8'	60.1'
5	288°24.3'	255°30.5'	N 13°14.8'	271°15.8'	8.7'	N 3°21.4'	11.8'	60.2'
6	303°26.7'	270°30.6'	N 13°15.7'	285°43.6'	8.7'	N 3°33.2'	11.8'	60.2'
7	318°29.2'	285°30.7'	N 13°16.5'	300°11.2'	8.6'	N 3°45.1'	11.8'	60.2'
8	333°31.7'	300°30.8'	N 13°17.3'	314°38.8'	8.6'	N 3°56.9'	11.8'	60.2'
9	348°34.1'	315°30.9'	N 13°18.1'	329°06.4'	8.5'	N 4°08.7'	11.8'	60.3'
10	3°36.6'	330°31.0'	N 13°18.9'	343°33.9'	8.5'	N 4°20.5'	11.8'	60.3'
11	18°39.1'	345°31.1'	N 13°19.7'	358°01.4'	8.4'	N 4°32.2'	11.8'	60.3'
12	33°41.5'	0°31.2'	N 13°20.5'	12°28.8'	8.4'	N 4°44.0'	11.7'	60.3'
13	48°44.0'	15°31.3'	N 13°21.3'	26°56.2'	8.3'	N 4°55.7'	11.7'	60.4'
14	63°46.4'	30°31.4'	N 13°22.1'	41°23.5'	8.3'	N 5°07.4'	11.7'	60.4'
15	78°48.9'	45°31.5'	N 13°22.9'	55°50.8'	8.2'	N 5°19.1'	11.7'	60.4'
16	93°51.4'	60°31.6'	N 13°23.8'	70°18.0'	8.2'	N 5°30.8'	11.6'	60.4'
17	108°53.8'	75°31.7'	N 13°24.6'	84°45.2'	8.1'	N 5°42.4'	11.6'	60.5'
18	123°56.3'	90°31.8'	N 13°25.4'	99°12.3'	8.1'	N 5°54.0'	11.6'	60.5'
19	138°58.8'	105°31.9'	N 13°26.2'	113°39.3'	8.0'	N 6°05.6'	11.6'	60.5'
20	154°01.2'	120°32.0'	N 13°27.0'	128°06.3'	8.0'	N 6°17.2'	11.5'	60.5'
21	169°03.7'	135°32.1'	N 13°27.8'	142°33.3'	7.9'	N 6°28.7'	11.5'	60.6'
22	184°06.2'	150°32.2'	N 13°28.6'	157°00.2'	7.8'	N 6°40.2'	11.5'	60.6'
23	199°08.6'	165°32.3'	N 13°29.4'	171°27.0'	7.8'	N 6°51.7'	11.4'	60.6'

Wed Apr 26, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.8' SD = 15.9'		SD = 16.6'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	214°11.1'	180°32.5'	N 13°30.2'	185°53.8'	7.7'	N 7°03.1'	11.4'	60.6'
1	229°13.6'	195°32.6'	N 13°31.0'	200°20.5'	7.7'	N 7°14.5'	11.4'	60.6'
2	244°16.0'	210°32.7'	N 13°31.8'	214°47.2'	7.6'	N 7°25.9'	11.3'	60.7'
3	259°18.5'	225°32.8'	N 13°32.6'	229°13.8'	7.6'	N 7°37.2'	11.3'	60.7'
4	274°20.9'	240°32.9'	N 13°33.4'	243°40.4'	7.5'	N 7°48.4'	11.2'	60.7'
5	289°23.4'	255°33.0'	N 13°34.2'	258°06.9'	7.5'	N 7°59.7'	11.2'	60.7'
6	304°25.9'	270°33.1'	N 13°35.0'	272°33.4'	7.4'	N 8°10.9'	11.1'	60.7'
7	319°28.3'	285°33.2'	N 13°35.9'	286°59.8'	7.4'	N 8°22.0'	11.1'	60.7'
8	334°30.8'	300°33.3'	N 13°36.7'	301°26.2'	7.3'	N 8°33.1'	11.0'	60.8'
9	349°33.3'	315°33.4'	N 13°37.5'	315°52.5'	7.2'	N 8°44.1'	11.0'	60.8'
10	4°35.7'	330°33.5'	N 13°38.3'	330°18.7'	7.2'	N 8°55.1'	10.9'	60.8'
11	19°38.2'	345°33.6'	N 13°39.1'	344°44.9'	7.1'	N 9°06.1'	10.9'	60.8'
12	34°40.7'	0°33.7'	N 13°39.9'	359°11.0'	7.1'	N 9°16.9'	10.8'	60.8'
13	49°43.1'	15°33.8'	N 13°40.7'	13°37.1'	7.0'	N 9°27.8'	10.8'	60.8'
14	64°45.6'	30°33.9'	N 13°41.5'	28°03.1'	7.0'	N 9°38.5'	10.7'	60.9'
15	79°48.1'	45°34.0'	N 13°42.3'	42°29.1'	6.9'	N 9°49.3'	10.7'	60.9'
16	94°50.5'	60°34.1'	N 13°43.1'	56°55.0'	6.9'	N 9°59.9'	10.6'	60.9'
17	109°53.0'	75°34.1'	N 13°43.9'	71°20.9'	6.8'	N 10°10.5'	10.5'	60.9'
18	124°55.4'	90°34.2'	N 13°44.7'	85°46.7'	6.8'	N 10°21.0'	10.5'	60.9'
19	139°57.9'	105°34.3'	N 13°45.5'	100°12.4'	6.7'	N 10°31.5'	10.4'	60.9'
20	155°00.4'	120°34.4'	N 13°46.3'	114°38.1'	6.6'	N 10°41.9'	10.3'	60.9'
21	170°02.8'	135°34.5'	N 13°47.1'	129°03.8'	6.6'	N 10°52.2'	10.3'	60.9'
22	185°05.3'	150°34.6'	N 13°47.9'	143°29.4'	6.5'	N 11°02.5'	10.2'	60.9'
23	200°07.8'	165°34.7'	N 13°48.7'	157°54.9'	6.5'	N 11°12.7'	10.1'	61.0'

Thu Apr 27, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.8' SD = 15.9'		SD = 16.6'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	215°10.2'	180°34.8'	N 13°49.4'	172°20.4'	6.4'	N 11°22.8'	10.0'	61.0'
1	230°12.7'	195°34.9'	N 13°50.2'	186°45.8'	6.4'	N 11°32.8'	10.0'	61.0'
2	245°15.2'	210°35.0'	N 13°51.0'	201°11.2'	6.3'	N 11°42.8'	9.9'	61.0'
3	260°17.6'	225°35.1'	N 13°51.8'	215°36.5'	6.3'	N 11°52.7'	9.8'	61.0'
4	275°20.1'	240°35.2'	N 13°52.6'	230°01.8'	6.2'	N 12°02.5'	9.7'	61.0'
5	290°22.5'	255°35.3'	N 13°53.4'	244°27.0'	6.2'	N 12°12.2'	9.6'	61.0'
6	305°25.0'	270°35.4'	N 13°54.2'	258°52.1'	6.1'	N 12°21.9'	9.6'	61.0'
7	320°27.5'	285°35.5'	N 13°55.0'	273°17.3'	6.1'	N 12°31.4'	9.5'	61.0'
8	335°29.9'	300°35.6'	N 13°55.8'	287°42.3'	6.0'	N 12°40.9'	9.4'	61.0'
9	350°32.4'	315°35.7'	N 13°56.6'	302°07.3'	6.0'	N 12°50.3'	9.3'	61.0'
10	5°34.9'	330°35.8'	N 13°57.4'	316°32.3'	5.9'	N 12°59.6'	9.2'	61.0'
11	20°37.3'	345°35.9'	N 13°58.2'	330°57.2'	5.9'	N 13°08.8'	9.1'	61.0'
12	35°39.8'	0°36.0'	N 13°59.0'	345°22.1'	5.8'	N 13°18.0'	9.0'	61.0'
13	50°42.3'	15°36.1'	N 13°59.8'	359°46.9'	5.8'	N 13°27.0'	8.9'	61.0'
14	65°44.7'	30°36.2'	N 14°00.6'	14°11.7'	5.7'	N 13°35.9'	8.9'	61.0'
15	80°47.2'	45°36.3'	N 14°01.4'	28°36.4'	5.7'	N 13°44.8'	8.8'	61.0'
16	95°49.7'	60°36.3'	N 14°02.1'	43°01.0'	5.6'	N 13°53.5'	8.7'	61.0'
17	110°52.1'	75°36.4'	N 14°02.9'	57°25.7'	5.6'	N 14°02.2'	8.6'	61.0'
18	125°54.6'	90°36.5'	N 14°03.7'	71°50.3'	5.5'	N 14°10.8'	8.5'	61.0'
19	140°57.0'	105°36.6'	N 14°04.5'	86°14.8'	5.5'	N 14°19.2'	8.4'	61.0'
20	155°59.5'	120°36.7'	N 14°05.3'	100°39.3'	5.5'	N 14°27.6'	8.3'	61.0'
21	171°02.0'	135°36.8'	N 14°06.1'	115°03.7'	5.4'	N 14°35.9'	8.2'	61.0'
22	186°04.4'	150°36.9'	N 14°06.9'	129°28.1'	5.4'	N 14°44.0'	8.1'	61.0'
23	201°06.9'	165°37.0'	N 14°07.7'	143°52.5'	5.3'	N 14°52.1'	7.9'	61.0'

Fri Apr 28, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.8' SD = 15.9'		SD = 16.6'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	216°09.4'	180°37.1'	N 14°08.5'	158°16.8'	5.3'	N 15°00.0'	7.8'	61.0'
1	231°11.8'	195°37.2'	N 14°09.2'	172°41.1'	5.2'	N 15°07.8'	7.7'	61.0'
2	246°14.3'	210°37.3'	N 14°10.0'	187°05.4'	5.2'	N 15°15.6'	7.6'	61.0'
3	261°16.8'	225°37.4'	N 14°10.8'	201°29.6'	5.2'	N 15°23.2'	7.5'	61.0'
4	276°19.2'	240°37.4'	N 14°11.6'	215°53.7'	5.1'	N 15°30.7'	7.4'	61.0'
5	291°21.7'	255°37.5'	N 14°12.4'	230°17.9'	5.1'	N 15°38.1'	7.3'	61.0'
6	306°24.2'	270°37.6'	N 14°13.2'	244°42.0'	5.1'	N 15°45.4'	7.2'	61.0'
7	321°26.6'	285°37.7'	N 14°14.0'	259°06.0'	5.0'	N 15°52.6'	7.1'	61.0'
8	336°29.1'	300°37.8'	N 14°14.7'	273°30.1'	5.0'	N 15°59.6'	6.9'	60.9'
9	351°31.5'	315°37.9'	N 14°15.5'	287°54.1'	5.0'	N 16°06.6'	6.8'	60.9'
10	6°34.0'	330°38.0'	N 14°16.3'	302°18.0'	4.9'	N 16°13.4'	6.7'	60.9'
11	21°36.5'	345°38.1'	N 14°17.1'	316°42.0'	4.9'	N 16°20.1'	6.6'	60.9'
12	36°38.9'	0°38.2'	N 14°17.9'	331°05.9'	4.9'	N 16°26.7'	6.5'	60.9'
13	51°41.4'	15°38.3'	N 14°18.6'	345°29.8'	4.9'	N 16°33.2'	6.3'	60.9'
14	66°43.9'	30°38.3'	N 14°19.4'	359°53.6'	4.8'	N 16°39.5'	6.2'	60.9'
15	81°46.3'	45°38.4'	N 14°20.2'	14°17.4'	4.8'	N 16°45.7'	6.1'	60.9'
16	96°48.8'	60°38.5'	N 14°21.0'	28°41.2'	4.8'	N 16°51.8'	6.0'	60.9'
17	111°51.3'	75°38.6'	N 14°21.8'	43°05.0'	4.8'	N 16°57.8'	5.9'	60.9'
18	126°53.7'	90°38.7'	N 14°22.6'	57°28.8'	4.7'	N 17°03.7'	5.7'	60.8'
19	141°56.2'	105°38.8'	N 14°23.3'	71°52.5'	4.7'	N 17°09.4'	5.6'	60.8'
20	156°58.6'	120°38.9'	N 14°24.1'	86°16.2'	4.7'	N 17°15.0'	5.5'	60.8'
21	172°01.1'	135°39.0'	N 14°24.9'	100°39.9'	4.7'	N 17°20.5'	5.4'	60.8'
22	187°03.6'	150°39.0'	N 14°25.7'	115°03.6'	4.7'	N 17°25.8'	5.2'	60.8'
23	202°06.0'	165°39.1'	N 14°26.4'	129°27.2'	4.6'	N 17°31.1'	5.1'	60.8'

Sat Apr 29, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.8' SD = 15.9'		SD = 16.5'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	217°08.5'	180°39.2'	N 14°27.2'	143°50.9'	4.6'	N 17°36.2'	5.0'	60.8'
1	232°11.0'	195°39.3'	N 14°28.0'	158°14.5'	4.6'	N 17°41.1'	4.8'	60.7'
2	247°13.4'	210°39.4'	N 14°28.8'	172°38.1'	4.6'	N 17°46.0'	4.7'	60.7'
3	262°15.9'	225°39.5'	N 14°29.6'	187°01.7'	4.6'	N 17°50.7'	4.6'	60.7'
4	277°18.4'	240°39.6'	N 14°30.3'	201°25.3'	4.6'	N 17°55.3'	4.4'	60.7'
5	292°20.8'	255°39.6'	N 14°31.1'	215°48.9'	4.6'	N 17°59.7'	4.3'	60.7'
6	307°23.3'	270°39.7'	N 14°31.9'	230°12.5'	4.6'	N 18°04.0'	4.2'	60.6'
7	322°25.8'	285°39.8'	N 14°32.7'	244°36.1'	4.6'	N 18°08.2'	4.1'	60.6'
8	337°28.2'	300°39.9'	N 14°33.4'	258°59.6'	4.6'	N 18°12.3'	3.9'	60.6'
9	352°30.7'	315°40.0'	N 14°34.2'	273°23.2'	4.6'	N 18°16.2'	3.8'	60.6'
10	7°33.1'	330°40.1'	N 14°35.0'	287°46.8'	4.6'	N 18°20.0'	3.7'	60.6'
11	22°35.6'	345°40.1'	N 14°35.7'	302°10.3'	4.6'	N 18°23.6'	3.5'	60.6'
12	37°38.1'	0°40.2'	N 14°36.5'	316°33.9'	4.6'	N 18°27.1'	3.4'	60.5'
13	52°40.5'	15°40.3'	N 14°37.3'	330°57.5'	4.6'	N 18°30.5'	3.2'	60.5'
14	67°43.0'	30°40.4'	N 14°38.1'	345°21.0'	4.6'	N 18°33.8'	3.1'	60.5'
15	82°45.5'	45°40.5'	N 14°38.8'	359°44.6'	4.6'	N 18°36.9'	3.0'	60.5'
16	97°47.9'	60°40.6'	N 14°39.6'	14°08.2'	4.6'	N 18°39.9'	2.8'	60.4'
17	112°50.4'	75°40.6'	N 14°40.4'	28°31.8'	4.6'	N 18°42.7'	2.7'	60.4'
18	127°52.9'	90°40.7'	N 14°41.1'	42°55.4'	4.6'	N 18°45.4'	2.6'	60.4'
19	142°55.3'	105°40.8'	N 14°41.9'	57°19.0'	4.6'	N 18°48.0'	2.4'	60.4'
20	157°57.8'	120°40.9'	N 14°42.7'	71°42.7'	4.6'	N 18°50.4'	2.3'	60.4'
21	173°00.3'	135°41.0'	N 14°43.4'	86°06.3'	4.7'	N 18°52.7'	2.2'	60.3'
22	188°02.7'	150°41.0'	N 14°44.2'	100°30.0'	4.7'	N 18°54.9'	2.0'	60.3'
23	203°05.2'	165°41.1'	N 14°45.0'	114°53.6'	4.7'	N 18°56.9'	1.9'	60.3'

Sun Apr 30, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.8' SD = 15.9'		SD = 16.4'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	218°07.6'	180°41.2'	N 14°45.8'	129°17.3'	4.7'	N 18°58.8'	1.8'	60.3'
1	233°10.1'	195°41.3'	N 14°46.5'	143°41.1'	4.7'	N 19°00.6'	1.6'	60.2'
2	248°12.6'	210°41.4'	N 14°47.3'	158°04.8'	4.8'	N 19°02.2'	1.5'	60.2'
3	263°15.0'	225°41.5'	N 14°48.1'	172°28.6'	4.8'	N 19°03.7'	1.4'	60.2'
4	278°17.5'	240°41.5'	N 14°48.8'	186°52.3'	4.8'	N 19°05.0'	1.2'	60.2'
5	293°20.0'	255°41.6'	N 14°49.6'	201°16.1'	4.8'	N 19°06.2'	1.1'	60.1'
6	308°22.4'	270°41.7'	N 14°50.3'	215°40.0'	4.9'	N 19°07.3'	0.9'	60.1'
7	323°24.9'	285°41.8'	N 14°51.1'	230°03.8'	4.9'	N 19°08.3'	0.8'	60.1'
8	338°27.4'	300°41.8'	N 14°51.9'	244°27.7'	4.9'	N 19°09.1'	0.7'	60.1'
9	353°29.8'	315°41.9'	N 14°52.6'	258°51.7'	5.0'	N 19°09.8'	0.5'	60.0'
10	8°32.3'	330°42.0'	N 14°53.4'	273°15.6'	5.0'	N 19°10.3'	0.4'	60.0'
11	23°34.8'	345°42.1'	N 14°54.2'	287°39.6'	5.0'	N 19°10.7'	0.3'	60.0'
12	38°37.2'	0°42.2'	N 14°54.9'	302°03.6'	5.1'	N 19°11.0'	0.1'	59.9'
13	53°39.7'	15°42.2'	N 14°55.7'	316°27.7'	5.1'	N 19°11.1'	0.0'	59.9'
14	68°42.1'	30°42.3'	N 14°56.4'	330°51.8'	5.1'	N 19°11.1'	0.1'	59.9'
15	83°44.6'	45°42.4'	N 14°57.2'	345°15.9'	5.2'	N 19°11.0'	0.3'	59.9'
16	98°47.1'	60°42.5'	N 14°58.0'	359°40.1'	5.2'	N 19°10.8'	0.4'	59.8'
17	113°49.5'	75°42.6'	N 14°58.7'	14°04.3'	5.3'	N 19°10.4'	0.5'	59.8'
18	128°52.0'	90°42.6'	N 14°59.5'	28°28.6'	5.3'	N 19°09.8'	0.6'	59.8'
19	143°54.5'	105°42.7'	N 15°00.2'	42°52.9'	5.4'	N 19°09.2'	0.8'	59.7'
20	158°56.9'	120°42.8'	N 15°01.0'	57°17.3'	5.4'	N 19°08.4'	0.9'	59.7'
21	173°59.4'	135°42.9'	N 15°01.8'	71°41.7'	5.4'	N 19°07.5'	1.0'	59.7'
22	189°01.9'	150°42.9'	N 15°02.5'	86°06.1'	5.5'	N 19°06.5'	1.2'	59.7'
23	204°04.3'	165°43.0'	N 15°03.3'	100°30.6'	5.5'	N 19°05.3'	1.3'	59.6'