

Mon Apr 1, 2019 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 1.0' SD = 16.0'		SD = 14.8'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	189°03.9'	178°58.4'	N 4°20.6'	223°09.8'	13.7'	S 16°15.5'	7.6'	54.1'
1	204°06.3'	193°58.6'	N 4°21.6'	237°42.6'	13.8'	S 16°07.9'	7.7'	54.1'
2	219°08.8'	208°58.8'	N 4°22.5'	252°15.4'	13.8'	S 16°00.2'	7.7'	54.1'
3	234°11.3'	223°58.9'	N 4°23.5'	266°48.2'	13.9'	S 15°52.5'	7.8'	54.1'
4	249°13.7'	238°59.1'	N 4°24.5'	281°21.0'	13.9'	S 15°44.7'	7.9'	54.1'
5	264°16.2'	253°59.3'	N 4°25.4'	295°53.9'	13.9'	S 15°36.8'	7.9'	54.1'
6	279°18.7'	268°59.5'	N 4°26.4'	310°26.8'	14.0'	S 15°28.9'	8.0'	54.1'
7	294°21.1'	283°59.7'	N 4°27.4'	324°59.8'	14.0'	S 15°20.9'	8.1'	54.1'
8	309°23.6'	298°59.9'	N 4°28.3'	339°32.8'	14.0'	S 15°12.8'	8.1'	54.1'
9	324°26.1'	314°00.1'	N 4°29.3'	354°05.8'	14.1'	S 15°04.7'	8.2'	54.1'
10	339°28.5'	329°00.2'	N 4°30.3'	8°38.9'	14.1'	S 14°56.5'	8.3'	54.1'
11	354°31.0'	344°00.4'	N 4°31.2'	23°11.9'	14.1'	S 14°48.2'	8.3'	54.1'
12	9°33.4'	359°00.6'	N 4°32.2'	37°45.1'	14.2'	S 14°39.9'	8.4'	54.1'
13	24°35.9'	14°00.8'	N 4°33.2'	52°18.2'	14.2'	S 14°31.5'	8.5'	54.1'
14	39°38.4'	29°01.0'	N 4°34.1'	66°51.4'	14.2'	S 14°23.0'	8.5'	54.1'
15	54°40.8'	44°01.2'	N 4°35.1'	81°24.6'	14.2'	S 14°14.5'	8.6'	54.1'
16	69°43.3'	59°01.4'	N 4°36.1'	95°57.9'	14.3'	S 14°05.9'	8.6'	54.1'
17	84°45.8'	74°01.5'	N 4°37.0'	110°31.1'	14.3'	S 13°57.3'	8.7'	54.1'
18	99°48.2'	89°01.7'	N 4°38.0'	125°04.4'	14.3'	S 13°48.6'	8.8'	54.1'
19	114°50.7'	104°01.9'	N 4°39.0'	139°37.8'	14.4'	S 13°39.8'	8.8'	54.1'
20	129°53.2'	119°02.1'	N 4°39.9'	154°11.1'	14.4'	S 13°31.0'	8.9'	54.1'
21	144°55.6'	134°02.3'	N 4°40.9'	168°44.5'	14.4'	S 13°22.1'	8.9'	54.1'
22	159°58.1'	149°02.5'	N 4°41.8'	183°17.9'	14.4'	S 13°13.2'	9.0'	54.1'
23	175°00.6'	164°02.6'	N 4°42.8'	197°51.4'	14.5'	S 13°04.2'	9.1'	54.1'

Tue Apr 2, 2019 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 1.0' SD = 16.0'		SD = 14.8'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	190°03.0'	179°02.8'	N 4°43.8'	212°24.9'	14.5'	S 12°55.1'	9.1'	54.1'
1	205°05.5'	194°03.0'	N 4°44.7'	226°58.4'	14.5'	S 12°46.0'	9.2'	54.1'
2	220°07.9'	209°03.2'	N 4°45.7'	241°31.9'	14.6'	S 12°36.9'	9.2'	54.1'
3	235°10.4'	224°03.4'	N 4°46.7'	256°05.5'	14.6'	S 12°27.6'	9.3'	54.1'
4	250°12.9'	239°03.6'	N 4°47.6'	270°39.0'	14.6'	S 12°18.4'	9.3'	54.2'
5	265°15.3'	254°03.8'	N 4°48.6'	285°12.7'	14.6'	S 12°09.0'	9.4'	54.2'
6	280°17.8'	269°03.9'	N 4°49.6'	299°46.3'	14.7'	S 11°59.7'	9.4'	54.2'
7	295°20.3'	284°04.1'	N 4°50.5'	314°19.9'	14.7'	S 11°50.2'	9.5'	54.2'
8	310°22.7'	299°04.3'	N 4°51.5'	328°53.6'	14.7'	S 11°40.7'	9.5'	54.2'
9	325°25.2'	314°04.5'	N 4°52.4'	343°27.3'	14.7'	S 11°31.2'	9.6'	54.2'
10	340°27.7'	329°04.7'	N 4°53.4'	358°01.1'	14.7'	S 11°21.6'	9.6'	54.2'
11	355°30.1'	344°04.9'	N 4°54.4'	12°34.8'	14.8'	S 11°12.0'	9.7'	54.2'
12	10°32.6'	359°05.0'	N 4°55.3'	27°08.6'	14.8'	S 11°02.3'	9.7'	54.2'
13	25°35.1'	14°05.2'	N 4°56.3'	41°42.4'	14.8'	S 10°52.6'	9.8'	54.2'
14	40°37.5'	29°05.4'	N 4°57.2'	56°16.2'	14.8'	S 10°42.8'	9.8'	54.2'
15	55°40.0'	44°05.6'	N 4°58.2'	70°50.0'	14.9'	S 10°33.0'	9.9'	54.2'
16	70°42.4'	59°05.8'	N 4°59.2'	85°23.9'	14.9'	S 10°23.1'	9.9'	54.2'
17	85°44.9'	74°06.0'	N 5°00.1'	99°57.7'	14.9'	S 10°13.2'	10.0'	54.3'
18	100°47.4'	89°06.1'	N 5°01.1'	114°31.6'	14.9'	S 10°03.2'	10.0'	54.3'
19	115°49.8'	104°06.3'	N 5°02.1'	129°05.5'	14.9'	S 9°53.2'	10.1'	54.3'
20	130°52.3'	119°06.5'	N 5°03.0'	143°39.5'	14.9'	S 9°43.1'	10.1'	54.3'
21	145°54.8'	134°06.7'	N 5°04.0'	158°13.4'	15.0'	S 9°33.0'	10.1'	54.3'
22	160°57.2'	149°06.9'	N 5°04.9'	172°47.4'	15.0'	S 9°22.9'	10.2'	54.3'
23	175°59.7'	164°07.1'	N 5°05.9'	187°21.4'	15.0'	S 9°12.7'	10.2'	54.3'

Wed Apr 3, 2019 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 1.0' SD = 16.0'		SD = 14.9'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	191°02.2'	179°07.2'	N 5°06.9'	201°55.4'	15.0'	S 9°02.5'	10.3'	54.3'
1	206°04.6'	194°07.4'	N 5°07.8'	216°29.4'	15.0'	S 8°52.2'	10.3'	54.3'
2	221°07.1'	209°07.6'	N 5°08.8'	231°03.4'	15.0'	S 8°41.9'	10.4'	54.3'
3	236°09.5'	224°07.8'	N 5°09.7'	245°37.4'	15.0'	S 8°31.5'	10.4'	54.3'
4	251°12.0'	239°08.0'	N 5°10.7'	260°11.5'	15.1'	S 8°21.1'	10.4'	54.4'
5	266°14.5'	254°08.2'	N 5°11.6'	274°45.5'	15.1'	S 8°10.7'	10.5'	54.4'
6	281°16.9'	269°08.3'	N 5°12.6'	289°19.6'	15.1'	S 8°00.2'	10.5'	54.4'
7	296°19.4'	284°08.5'	N 5°13.6'	303°53.7'	15.1'	S 7°49.7'	10.5'	54.4'
8	311°21.9'	299°08.7'	N 5°14.5'	318°27.8'	15.1'	S 7°39.2'	10.6'	54.4'
9	326°24.3'	314°08.9'	N 5°15.5'	333°01.9'	15.1'	S 7°28.6'	10.6'	54.4'
10	341°26.8'	329°09.1'	N 5°16.4'	347°36.0'	15.1'	S 7°18.0'	10.6'	54.4'
11	356°29.3'	344°09.3'	N 5°17.4'	2°10.1'	15.1'	S 7°07.4'	10.7'	54.4'
12	11°31.7'	359°09.4'	N 5°18.4'	16°44.3'	15.1'	S 6°56.7'	10.7'	54.4'
13	26°34.2'	14°09.6'	N 5°19.3'	31°18.4'	15.1'	S 6°46.0'	10.7'	54.5'
14	41°36.7'	29°09.8'	N 5°20.3'	45°52.6'	15.2'	S 6°35.2'	10.8'	54.5'
15	56°39.1'	44°10.0'	N 5°21.2'	60°26.7'	15.2'	S 6°24.4'	10.8'	54.5'
16	71°41.6'	59°10.2'	N 5°22.2'	75°00.9'	15.2'	S 6°13.6'	10.8'	54.5'
17	86°44.0'	74°10.3'	N 5°23.1'	89°35.0'	15.2'	S 6°02.8'	10.9'	54.5'
18	101°46.5'	89°10.5'	N 5°24.1'	104°09.2'	15.2'	S 5°51.9'	10.9'	54.5'
19	116°49.0'	104°10.7'	N 5°25.1'	118°43.4'	15.2'	S 5°41.0'	10.9'	54.5'
20	131°51.4'	119°10.9'	N 5°26.0'	133°17.6'	15.2'	S 5°30.1'	11.0'	54.5'
21	146°53.9'	134°11.1'	N 5°27.0'	147°51.8'	15.2'	S 5°19.1'	11.0'	54.6'
22	161°56.4'	149°11.3'	N 5°27.9'	162°25.9'	15.2'	S 5°08.1'	11.0'	54.6'
23	176°58.8'	164°11.4'	N 5°28.9'	177°00.1'	15.2'	S 4°57.1'	11.0'	54.6'

Thu Apr 4, 2019 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 1.0' SD = 16.0'		SD = 14.9'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	192°01.3'	179°11.6'	N 5°29.8'	191°34.3'	15.2'	S 4°46.1'	11.1'	54.6'
1	207°03.8'	194°11.8'	N 5°30.8'	206°08.5'	15.2'	S 4°35.0'	11.1'	54.6'
2	222°06.2'	209°12.0'	N 5°31.8'	220°42.7'	15.2'	S 4°23.9'	11.1'	54.6'
3	237°08.7'	224°12.2'	N 5°32.7'	235°16.9'	15.2'	S 4°12.8'	11.1'	54.6'
4	252°11.1'	239°12.3'	N 5°33.7'	249°51.1'	15.2'	S 4°01.6'	11.2'	54.7'
5	267°13.6'	254°12.5'	N 5°34.6'	264°25.3'	15.2'	S 3°50.5'	11.2'	54.7'
6	282°16.1'	269°12.7'	N 5°35.6'	278°59.4'	15.2'	S 3°39.3'	11.2'	54.7'
7	297°18.5'	284°12.9'	N 5°36.5'	293°33.6'	15.2'	S 3°28.1'	11.2'	54.7'
8	312°21.0'	299°13.1'	N 5°37.5'	308°07.8'	15.2'	S 3°16.9'	11.2'	54.7'
9	327°23.5'	314°13.2'	N 5°38.4'	322°42.0'	15.2'	S 3°05.6'	11.3'	54.7'
10	342°25.9'	329°13.4'	N 5°39.4'	337°16.1'	15.2'	S 2°54.3'	11.3'	54.7'
11	357°28.4'	344°13.6'	N 5°40.3'	351°50.3'	15.1'	S 2°43.1'	11.3'	54.8'
12	12°30.9'	359°13.8'	N 5°41.3'	6°24.4'	15.1'	S 2°31.8'	11.3'	54.8'
13	27°33.3'	14°14.0'	N 5°42.3'	20°58.6'	15.1'	S 2°20.4'	11.3'	54.8'
14	42°35.8'	29°14.2'	N 5°43.2'	35°32.7'	15.1'	S 2°09.1'	11.4'	54.8'
15	57°38.3'	44°14.3'	N 5°44.2'	50°06.8'	15.1'	S 1°57.7'	11.4'	54.8'
16	72°40.7'	59°14.5'	N 5°45.1'	64°40.9'	15.1'	S 1°46.4'	11.4'	54.8'
17	87°43.2'	74°14.7'	N 5°46.1'	79°15.0'	15.1'	S 1°35.0'	11.4'	54.8'
18	102°45.6'	89°14.9'	N 5°47.0'	93°49.1'	15.1'	S 1°23.6'	11.4'	54.9'
19	117°48.1'	104°15.1'	N 5°48.0'	108°23.2'	15.1'	S 1°12.2'	11.4'	54.9'
20	132°50.6'	119°15.2'	N 5°48.9'	122°57.3'	15.1'	S 1°00.8'	11.4'	54.9'
21	147°53.0'	134°15.4'	N 5°49.9'	137°31.3'	15.0'	S 0°49.3'	11.4'	54.9'
22	162°55.5'	149°15.6'	N 5°50.8'	152°05.4'	15.0'	S 0°37.9'	11.5'	54.9'
23	177°58.0'	164°15.8'	N 5°51.8'	166°39.4'	15.0'	S 0°26.5'	11.5'	54.9'

Fri Apr 5, 2019 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 16.0'		SD = 15.0'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	193°00.4'	179°16.0'	N 5°52.7'	181°13.4'	15.0'	S 0°15.0'	11.5'	55.0'
1	208°02.9'	194°16.1'	N 5°53.7'	195°47.4'	15.0'	S 0°03.5'	11.5'	55.0'
2	223°05.4'	209°16.3'	N 5°54.6'	210°21.4'	15.0'	N 0°07.9'	11.5'	55.0'
3	238°07.8'	224°16.5'	N 5°55.6'	224°55.4'	14.9'	N 0°19.4'	11.5'	55.0'
4	253°10.3'	239°16.7'	N 5°56.5'	239°29.3'	14.9'	N 0°30.9'	11.5'	55.0'
5	268°12.7'	254°16.8'	N 5°57.5'	254°03.2'	14.9'	N 0°42.4'	11.5'	55.0'
6	283°15.2'	269°17.0'	N 5°58.4'	268°37.1'	14.9'	N 0°53.9'	11.5'	55.1'
7	298°17.7'	284°17.2'	N 5°59.4'	283°11.0'	14.9'	N 1°05.4'	11.5'	55.1'
8	313°20.1'	299°17.4'	N 6°00.3'	297°44.9'	14.8'	N 1°16.9'	11.5'	55.1'
9	328°22.6'	314°17.6'	N 6°01.3'	312°18.7'	14.8'	N 1°28.4'	11.5'	55.1'
10	343°25.1'	329°17.7'	N 6°02.2'	326°52.5'	14.8'	N 1°39.9'	11.5'	55.1'
11	358°27.5'	344°17.9'	N 6°03.2'	341°26.3'	14.8'	N 1°51.4'	11.5'	55.1'
12	13°30.0'	359°18.1'	N 6°04.1'	356°00.1'	14.8'	N 2°02.9'	11.5'	55.2'
13	28°32.5'	14°18.3'	N 6°05.1'	10°33.9'	14.7'	N 2°14.4'	11.5'	55.2'
14	43°34.9'	29°18.5'	N 6°06.0'	25°07.6'	14.7'	N 2°26.0'	11.5'	55.2'
15	58°37.4'	44°18.6'	N 6°07.0'	39°41.3'	14.7'	N 2°37.5'	11.5'	55.2'
16	73°39.9'	59°18.8'	N 6°07.9'	54°15.0'	14.6'	N 2°49.0'	11.5'	55.2'
17	88°42.3'	74°19.0'	N 6°08.9'	68°48.6'	14.6'	N 3°00.4'	11.5'	55.2'
18	103°44.8'	89°19.2'	N 6°09.8'	83°22.2'	14.6'	N 3°11.9'	11.5'	55.3'
19	118°47.2'	104°19.4'	N 6°10.8'	97°55.8'	14.6'	N 3°23.4'	11.5'	55.3'
20	133°49.7'	119°19.5'	N 6°11.7'	112°29.4'	14.5'	N 3°34.9'	11.5'	55.3'
21	148°52.2'	134°19.7'	N 6°12.7'	127°02.9'	14.5'	N 3°46.4'	11.5'	55.3'
22	163°54.6'	149°19.9'	N 6°13.6'	141°36.4'	14.5'	N 3°57.8'	11.5'	55.3'
23	178°57.1'	164°20.1'	N 6°14.6'	156°09.9'	14.4'	N 4°09.3'	11.4'	55.3'

Sat Apr 6, 2019 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 16.0'		SD = 15.2'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	193°59.6'	179°20.2'	N 6°15.5'	170°43.3'	14.4'	N 4°20.7'	11.4'	55.4'
1	209°02.0'	194°20.4'	N 6°16.5'	185°16.7'	14.4'	N 4°32.1'	11.4'	55.4'
2	224°04.5'	209°20.6'	N 6°17.4'	199°50.1'	14.3'	N 4°43.6'	11.4'	55.4'
3	239°07.0'	224°20.8'	N 6°18.4'	214°23.4'	14.3'	N 4°55.0'	11.4'	55.4'
4	254°09.4'	239°21.0'	N 6°19.3'	228°56.7'	14.3'	N 5°06.4'	11.4'	55.4'
5	269°11.9'	254°21.1'	N 6°20.3'	243°30.0'	14.2'	N 5°17.7'	11.4'	55.5'
6	284°14.3'	269°21.3'	N 6°21.2'	258°03.2'	14.2'	N 5°29.1'	11.3'	55.5'
7	299°16.8'	284°21.5'	N 6°22.1'	272°36.4'	14.2'	N 5°40.5'	11.3'	55.5'
8	314°19.3'	299°21.7'	N 6°23.1'	287°09.6'	14.1'	N 5°51.8'	11.3'	55.5'
9	329°21.7'	314°21.8'	N 6°24.0'	301°42.7'	14.1'	N 6°03.1'	11.3'	55.5'
10	344°24.2'	329°22.0'	N 6°25.0'	316°15.8'	14.0'	N 6°14.4'	11.3'	55.5'
11	359°26.7'	344°22.2'	N 6°25.9'	330°48.8'	14.0'	N 6°25.7'	11.3'	55.6'
12	14°29.1'	359°22.4'	N 6°26.9'	345°21.8'	14.0'	N 6°36.9'	11.2'	55.6'
13	29°31.6'	14°22.5'	N 6°27.8'	359°54.8'	13.9'	N 6°48.1'	11.2'	55.6'
14	44°34.1'	29°22.7'	N 6°28.8'	14°27.7'	13.9'	N 6°59.4'	11.2'	55.6'
15	59°36.5'	44°22.9'	N 6°29.7'	29°00.6'	13.8'	N 7°10.5'	11.2'	55.6'
16	74°39.0'	59°23.1'	N 6°30.7'	43°33.4'	13.8'	N 7°21.7'	11.1'	55.7'
17	89°41.5'	74°23.3'	N 6°31.6'	58°06.2'	13.7'	N 7°32.8'	11.1'	55.7'
18	104°43.9'	89°23.4'	N 6°32.5'	72°38.9'	13.7'	N 7°44.0'	11.1'	55.7'
19	119°46.4'	104°23.6'	N 6°33.5'	87°11.6'	13.7'	N 7°55.0'	11.1'	55.7'
20	134°48.8'	119°23.8'	N 6°34.4'	101°44.3'	13.6'	N 8°06.1'	11.0'	55.7'
21	149°51.3'	134°24.0'	N 6°35.4'	116°16.9'	13.6'	N 8°17.1'	11.0'	55.8'
22	164°53.8'	149°24.1'	N 6°36.3'	130°49.4'	13.5'	N 8°28.1'	11.0'	55.8'
23	179°56.2'	164°24.3'	N 6°37.3'	145°21.9'	13.5'	N 8°39.1'	10.9'	55.8'

Sun Apr 7, 2019 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 16.0'		SD = 15.3'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	194°58.7'	179°24.5'	N 6°38.2'	159°54.4'	13.4'	N 8°50.0'	10.9'	55.8'
1	210°01.2'	194°24.7'	N 6°39.1'	174°26.8'	13.4'	N 9°00.9'	10.9'	55.8'
2	225°03.6'	209°24.8'	N 6°40.1'	188°59.2'	13.3'	N 9°11.8'	10.8'	55.9'
3	240°06.1'	224°25.0'	N 6°41.0'	203°31.5'	13.3'	N 9°22.6'	10.8'	55.9'
4	255°08.6'	239°25.2'	N 6°42.0'	218°03.8'	13.2'	N 9°33.4'	10.8'	55.9'
5	270°11.0'	254°25.4'	N 6°42.9'	232°36.0'	13.2'	N 9°44.2'	10.7'	55.9'
6	285°13.5'	269°25.5'	N 6°43.9'	247°08.1'	13.1'	N 9°54.9'	10.7'	55.9'
7	300°16.0'	284°25.7'	N 6°44.8'	261°40.2'	13.1'	N 10°05.6'	10.7'	56.0'
8	315°18.4'	299°25.9'	N 6°45.7'	276°12.3'	13.0'	N 10°16.3'	10.6'	56.0'
9	330°20.9'	314°26.1'	N 6°46.7'	290°44.3'	12.9'	N 10°26.9'	10.6'	56.0'
10	345°23.3'	329°26.2'	N 6°47.6'	305°16.2'	12.9'	N 10°37.5'	10.5'	56.0'
11	0°25.8'	344°26.4'	N 6°48.6'	319°48.1'	12.8'	N 10°48.0'	10.5'	56.0'
12	15°28.3'	359°26.6'	N 6°49.5'	334°20.0'	12.8'	N 10°58.5'	10.4'	56.1'
13	30°30.7'	14°26.8'	N 6°50.4'	348°51.7'	12.7'	N 11°08.9'	10.4'	56.1'
14	45°33.2'	29°26.9'	N 6°51.4'	3°23.5'	12.7'	N 11°19.3'	10.4'	56.1'
15	60°35.7'	44°27.1'	N 6°52.3'	17°55.1'	12.6'	N 11°29.7'	10.3'	56.1'
16	75°38.1'	59°27.3'	N 6°53.3'	32°26.7'	12.5'	N 11°40.0'	10.3'	56.1'
17	90°40.6'	74°27.5'	N 6°54.2'	46°58.3'	12.5'	N 11°50.2'	10.2'	56.2'
18	105°43.1'	89°27.6'	N 6°55.1'	61°29.8'	12.4'	N 12°00.4'	10.2'	56.2'
19	120°45.5'	104°27.8'	N 6°56.1'	76°01.2'	12.4'	N 12°10.6'	10.1'	56.2'
20	135°48.0'	119°28.0'	N 6°57.0'	90°32.6'	12.3'	N 12°20.7'	10.1'	56.2'
21	150°50.4'	134°28.2'	N 6°58.0'	105°03.9'	12.3'	N 12°30.8'	10.0'	56.2'
22	165°52.9'	149°28.3'	N 6°58.9'	119°35.1'	12.2'	N 12°40.8'	9.9'	56.3'
23	180°55.4'	164°28.5'	N 6°59.8'	134°06.3'	12.1'	N 12°50.7'	9.9'	56.3'

Mon Apr 8, 2019 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 16.0'		SD = 15.4'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	195°57.8'	179°28.7'	N 7°00.8'	148°37.5'	12.1'	N 13°00.6'	9.8'	56.3'
1	211°00.3'	194°28.9'	N 7°01.7'	163°08.5'	12.0'	N 13°10.4'	9.8'	56.3'
2	226°02.8'	209°29.0'	N 7°02.6'	177°39.5'	11.9'	N 13°20.2'	9.7'	56.3'
3	241°05.2'	224°29.2'	N 7°03.6'	192°10.5'	11.9'	N 13°29.9'	9.7'	56.4'
4	256°07.7'	239°29.4'	N 7°04.5'	206°41.3'	11.8'	N 13°39.6'	9.6'	56.4'
5	271°10.2'	254°29.5'	N 7°05.5'	221°12.2'	11.7'	N 13°49.2'	9.5'	56.4'
6	286°12.6'	269°29.7'	N 7°06.4'	235°42.9'	11.7'	N 13°58.8'	9.5'	56.4'
7	301°15.1'	284°29.9'	N 7°07.3'	250°13.6'	11.6'	N 14°08.2'	9.4'	56.4'
8	316°17.6'	299°30.1'	N 7°08.3'	264°44.2'	11.6'	N 14°17.7'	9.4'	56.5'
9	331°20.0'	314°30.2'	N 7°09.2'	279°14.8'	11.5'	N 14°27.0'	9.3'	56.5'
10	346°22.5'	329°30.4'	N 7°10.1'	293°45.2'	11.4'	N 14°36.3'	9.2'	56.5'
11	1°24.9'	344°30.6'	N 7°11.1'	308°15.7'	11.4'	N 14°45.5'	9.2'	56.5'
12	16°27.4'	359°30.8'	N 7°12.0'	322°46.0'	11.3'	N 14°54.7'	9.1'	56.5'
13	31°29.9'	14°30.9'	N 7°12.9'	337°16.3'	11.2'	N 15°03.8'	9.0'	56.6'
14	46°32.3'	29°31.1'	N 7°13.9'	351°46.5'	11.2'	N 15°12.8'	8.9'	56.6'
15	61°34.8'	44°31.3'	N 7°14.8'	6°16.7'	11.1'	N 15°21.7'	8.9'	56.6'
16	76°37.3'	59°31.4'	N 7°15.8'	20°46.8'	11.0'	N 15°30.6'	8.8'	56.6'
17	91°39.7'	74°31.6'	N 7°16.7'	35°16.8'	10.9'	N 15°39.4'	8.7'	56.7'
18	106°42.2'	89°31.8'	N 7°17.6'	49°46.7'	10.9'	N 15°48.1'	8.7'	56.7'
19	121°44.7'	104°32.0'	N 7°18.6'	64°16.6'	10.8'	N 15°56.8'	8.6'	56.7'
20	136°47.1'	119°32.1'	N 7°19.5'	78°46.4'	10.7'	N 16°05.4'	8.5'	56.7'
21	151°49.6'	134°32.3'	N 7°20.4'	93°16.2'	10.7'	N 16°13.9'	8.4'	56.7'
22	166°52.1'	149°32.5'	N 7°21.4'	107°45.8'	10.6'	N 16°22.3'	8.3'	56.8'
23	181°54.5'	164°32.6'	N 7°22.3'	122°15.4'	10.5'	N 16°30.7'	8.3'	56.8'

Tue Apr 9, 2019 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 16.0'		SD = 15.6'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	196°57.0'	179°32.8'	N 7°23.2'	136°45.0'	10.5'	N 16°38.9'	8.2'	56.8'
1	211°59.4'	194°33.0'	N 7°24.2'	151°14.4'	10.4'	N 16°47.1'	8.1'	56.8'
2	227°01.9'	209°33.2'	N 7°25.1'	165°43.8'	10.3'	N 16°55.2'	8.0'	56.8'
3	242°04.4'	224°33.3'	N 7°26.0'	180°13.2'	10.3'	N 17°03.2'	7.9'	56.9'
4	257°06.8'	239°33.5'	N 7°27.0'	194°42.4'	10.2'	N 17°11.2'	7.9'	56.9'
5	272°09.3'	254°33.7'	N 7°27.9'	209°11.6'	10.1'	N 17°19.0'	7.8'	56.9'
6	287°11.8'	269°33.8'	N 7°28.8'	223°40.7'	10.0'	N 17°26.8'	7.7'	56.9'
7	302°14.2'	284°34.0'	N 7°29.7'	238°09.8'	10.0'	N 17°34.5'	7.6'	57.0'
8	317°16.7'	299°34.2'	N 7°30.7'	252°38.7'	9.9'	N 17°42.1'	7.5'	57.0'
9	332°19.2'	314°34.4'	N 7°31.6'	267°07.6'	9.8'	N 17°49.6'	7.4'	57.0'
10	347°21.6'	329°34.5'	N 7°32.5'	281°36.5'	9.8'	N 17°57.0'	7.3'	57.0'
11	2°24.1'	344°34.7'	N 7°33.5'	296°05.2'	9.7'	N 18°04.3'	7.2'	57.0'
12	17°26.5'	359°34.9'	N 7°34.4'	310°33.9'	9.6'	N 18°11.5'	7.1'	57.1'
13	32°29.0'	14°35.0'	N 7°35.3'	325°02.6'	9.6'	N 18°18.7'	7.0'	57.1'
14	47°31.5'	29°35.2'	N 7°36.3'	339°31.1'	9.5'	N 18°25.7'	6.9'	57.1'
15	62°33.9'	44°35.4'	N 7°37.2'	353°59.6'	9.4'	N 18°32.7'	6.8'	57.1'
16	77°36.4'	59°35.5'	N 7°38.1'	8°28.0'	9.3'	N 18°39.5'	6.8'	57.2'
17	92°38.9'	74°35.7'	N 7°39.0'	22°56.4'	9.3'	N 18°46.3'	6.7'	57.2'
18	107°41.3'	89°35.9'	N 7°40.0'	37°24.6'	9.2'	N 18°52.9'	6.6'	57.2'
19	122°43.8'	104°36.0'	N 7°40.9'	51°52.9'	9.1'	N 18°59.5'	6.5'	57.2'
20	137°46.3'	119°36.2'	N 7°41.8'	66°21.0'	9.1'	N 19°05.9'	6.4'	57.2'
21	152°48.7'	134°36.4'	N 7°42.8'	80°49.1'	9.0'	N 19°12.3'	6.2'	57.3'
22	167°51.2'	149°36.6'	N 7°43.7'	95°17.1'	8.9'	N 19°18.5'	6.1'	57.3'
23	182°53.7'	164°36.7'	N 7°44.6'	109°45.0'	8.9'	N 19°24.7'	6.0'	57.3'

Wed Apr 10, 2019 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 16.0'		SD = 15.7'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	197°56.1'	179°36.9'	N 7°45.5'	124°12.9'	8.8'	N 19°30.7'	5.9'	57.3'
1	212°58.6'	194°37.1'	N 7°46.5'	138°40.7'	8.7'	N 19°36.6'	5.8'	57.4'
2	228°01.0'	209°37.2'	N 7°47.4'	153°08.4'	8.7'	N 19°42.5'	5.7'	57.4'
3	243°03.5'	224°37.4'	N 7°48.3'	167°36.1'	8.6'	N 19°48.2'	5.6'	57.4'
4	258°06.0'	239°37.6'	N 7°49.3'	182°03.7'	8.5'	N 19°53.8'	5.5'	57.4'
5	273°08.4'	254°37.7'	N 7°50.2'	196°31.2'	8.5'	N 19°59.3'	5.4'	57.4'
6	288°10.9'	269°37.9'	N 7°51.1'	210°58.7'	8.4'	N 20°04.7'	5.3'	57.5'
7	303°13.4'	284°38.1'	N 7°52.0'	225°26.1'	8.3'	N 20°10.0'	5.2'	57.5'
8	318°15.8'	299°38.2'	N 7°53.0'	239°53.4'	8.3'	N 20°15.2'	5.1'	57.5'
9	333°18.3'	314°38.4'	N 7°53.9'	254°20.7'	8.2'	N 20°20.2'	4.9'	57.5'
10	348°20.8'	329°38.6'	N 7°54.8'	268°47.9'	8.2'	N 20°25.2'	4.8'	57.6'
11	3°23.2'	344°38.7'	N 7°55.7'	283°15.1'	8.1'	N 20°30.0'	4.7'	57.6'
12	18°25.7'	359°38.9'	N 7°56.7'	297°42.2'	8.0'	N 20°34.7'	4.6'	57.6'
13	33°28.2'	14°39.1'	N 7°57.6'	312°09.2'	8.0'	N 20°39.3'	4.5'	57.6'
14	48°30.6'	29°39.2'	N 7°58.5'	326°36.2'	7.9'	N 20°43.8'	4.4'	57.7'
15	63°33.1'	44°39.4'	N 7°59.4'	341°03.1'	7.8'	N 20°48.2'	4.2'	57.7'
16	78°35.5'	59°39.6'	N 8°00.4'	355°29.9'	7.8'	N 20°52.4'	4.1'	57.7'
17	93°38.0'	74°39.7'	N 8°01.3'	9°56.7'	7.7'	N 20°56.5'	4.0'	57.7'
18	108°40.5'	89°39.9'	N 8°02.2'	24°23.4'	7.7'	N 21°00.6'	3.9'	57.7'
19	123°42.9'	104°40.1'	N 8°03.1'	38°50.1'	7.6'	N 21°04.4'	3.8'	57.8'
20	138°45.4'	119°40.2'	N 8°04.0'	53°16.7'	7.6'	N 21°08.2'	3.6'	57.8'
21	153°47.9'	134°40.4'	N 8°05.0'	67°43.3'	7.5'	N 21°11.8'	3.5'	57.8'
22	168°50.3'	149°40.6'	N 8°05.9'	82°09.8'	7.4'	N 21°15.4'	3.4'	57.8'
23	183°52.8'	164°40.7'	N 8°06.8'	96°36.2'	7.4'	N 21°18.7'	3.3'	57.9'

Thu Apr 11, 2019 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 16.0'		SD = 15.9'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	198°55.3'	179°40.9'	N 8°07.7'	111°02.6'	7.3'	N 21°22.0'	3.1'	57.9'
1	213°57.7'	194°41.1'	N 8°08.7'	125°29.0'	7.3'	N 21°25.1'	3.0'	57.9'
2	229°00.2'	209°41.2'	N 8°09.6'	139°55.3'	7.2'	N 21°28.2'	2.9'	57.9'
3	244°02.7'	224°41.4'	N 8°10.5'	154°21.5'	7.2'	N 21°31.0'	2.8'	58.0'
4	259°05.1'	239°41.6'	N 8°11.4'	168°47.7'	7.1'	N 21°33.8'	2.6'	58.0'
5	274°07.6'	254°41.7'	N 8°12.3'	183°13.8'	7.1'	N 21°36.4'	2.5'	58.0'
6	289°10.0'	269°41.9'	N 8°13.3'	197°39.9'	7.0'	N 21°38.9'	2.4'	58.0'
7	304°12.5'	284°42.1'	N 8°14.2'	212°06.0'	7.0'	N 21°41.3'	2.2'	58.0'
8	319°15.0'	299°42.2'	N 8°15.1'	226°32.0'	7.0'	N 21°43.5'	2.1'	58.1'
9	334°17.4'	314°42.4'	N 8°16.0'	240°57.9'	6.9'	N 21°45.6'	2.0'	58.1'
10	349°19.9'	329°42.6'	N 8°16.9'	255°23.8'	6.9'	N 21°47.6'	1.8'	58.1'
11	4°22.4'	344°42.7'	N 8°17.9'	269°49.7'	6.8'	N 21°49.4'	1.7'	58.1'
12	19°24.8'	359°42.9'	N 8°18.8'	284°15.5'	6.8'	N 21°51.2'	1.6'	58.2'
13	34°27.3'	14°43.1'	N 8°19.7'	298°41.3'	6.7'	N 21°52.7'	1.4'	58.2'
14	49°29.8'	29°43.2'	N 8°20.6'	313°07.0'	6.7'	N 21°54.2'	1.3'	58.2'
15	64°32.2'	44°43.4'	N 8°21.5'	327°32.7'	6.7'	N 21°55.5'	1.2'	58.2'
16	79°34.7'	59°43.6'	N 8°22.5'	341°58.4'	6.6'	N 21°56.6'	1.0'	58.3'
17	94°37.1'	74°43.7'	N 8°23.4'	356°24.0'	6.6'	N 21°57.7'	0.9'	58.3'
18	109°39.6'	89°43.9'	N 8°24.3'	10°49.6'	6.6'	N 21°58.6'	0.8'	58.3'
19	124°42.1'	104°44.0'	N 8°25.2'	25°15.1'	6.5'	N 21°59.3'	0.6'	58.3'
20	139°44.5'	119°44.2'	N 8°26.1'	39°40.7'	6.5'	N 21°60.0'	0.5'	58.3'
21	154°47.0'	134°44.4'	N 8°27.0'	54°06.1'	6.5'	N 22°00.4'	0.3'	58.4'
22	169°49.5'	149°44.5'	N 8°28.0'	68°31.6'	6.4'	N 22°00.8'	0.2'	58.4'
23	184°51.9'	164°44.7'	N 8°28.9'	82°57.0'	6.4'	N 22°01.0'	0.1'	58.4'

Fri Apr 12, 2019 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 16.0'		SD = 16.0'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	199°54.4'	179°44.9'	N 8°29.8'	97°22.4'	6.4'	N 22°01.1'	0.1'	58.4'
1	214°56.9'	194°45.0'	N 8°30.7'	111°47.8'	6.3'	N 22°01.0'	0.2'	58.5'
2	229°59.3'	209°45.2'	N 8°31.6'	126°13.1'	6.3'	N 22°00.8'	0.3'	58.5'
3	245°01.8'	224°45.4'	N 8°32.5'	140°38.4'	6.3'	N 22°00.5'	0.5'	58.5'
4	260°04.3'	239°45.5'	N 8°33.5'	155°03.7'	6.3'	N 21°60.0'	0.6'	58.5'
5	275°06.7'	254°45.7'	N 8°34.4'	169°29.0'	6.2'	N 21°59.3'	0.8'	58.5'
6	290°09.2'	269°45.8'	N 8°35.3'	183°54.2'	6.2'	N 21°58.6'	0.9'	58.6'
7	305°11.6'	284°46.0'	N 8°36.2'	198°19.4'	6.2'	N 21°57.7'	1.0'	58.6'
8	320°14.1'	299°46.2'	N 8°37.1'	212°44.6'	6.2'	N 21°56.6'	1.2'	58.6'
9	335°16.6'	314°46.3'	N 8°38.0'	227°09.8'	6.2'	N 21°55.4'	1.3'	58.6'
10	350°19.0'	329°46.5'	N 8°38.9'	241°35.0'	6.2'	N 21°54.1'	1.5'	58.7'
11	5°21.5'	344°46.7'	N 8°39.9'	256°00.2'	6.1'	N 21°52.6'	1.6'	58.7'
12	20°24.0'	359°46.8'	N 8°40.8'	270°25.3'	6.1'	N 21°51.0'	1.8'	58.7'
13	35°26.4'	14°47.0'	N 8°41.7'	284°50.4'	6.1'	N 21°49.3'	1.9'	58.7'
14	50°28.9'	29°47.1'	N 8°42.6'	299°15.5'	6.1'	N 21°47.4'	2.0'	58.8'
15	65°31.4'	44°47.3'	N 8°43.5'	313°40.6'	6.1'	N 21°45.3'	2.2'	58.8'
16	80°33.8'	59°47.5'	N 8°44.4'	328°05.7'	6.1'	N 21°43.2'	2.3'	58.8'
17	95°36.3'	74°47.6'	N 8°45.3'	342°30.8'	6.1'	N 21°40.8'	2.5'	58.8'
18	110°38.8'	89°47.8'	N 8°46.2'	356°55.9'	6.1'	N 21°38.4'	2.6'	58.8'
19	125°41.2'	104°47.9'	N 8°47.2'	11°20.9'	6.1'	N 21°35.8'	2.7'	58.9'
20	140°43.7'	119°48.1'	N 8°48.1'	25°46.0'	6.1'	N 21°33.0'	2.9'	58.9'
21	155°46.1'	134°48.3'	N 8°49.0'	40°11.0'	6.1'	N 21°30.2'	3.0'	58.9'
22	170°48.6'	149°48.4'	N 8°49.9'	54°36.1'	6.1'	N 21°27.1'	3.2'	58.9'
23	185°51.1'	164°48.6'	N 8°50.8'	69°01.2'	6.1'	N 21°24.0'	3.3'	58.9'

Sat Apr 13, 2019 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 16.0'		SD = 16.2'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	200°53.5'	179°48.7'	N 8°51.7'	83°26.2'	6.1'	N 21°20.7'	3.4'	59.0'
1	215°56.0'	194°48.9'	N 8°52.6'	97°51.3'	6.1'	N 21°17.2'	3.6'	59.0'
2	230°58.5'	209°49.1'	N 8°53.5'	112°16.3'	6.1'	N 21°13.6'	3.7'	59.0'
3	246°00.9'	224°49.2'	N 8°54.4'	126°41.4'	6.1'	N 21°09.9'	3.9'	59.0'
4	261°03.4'	239°49.4'	N 8°55.3'	141°06.4'	6.1'	N 21°06.0'	4.0'	59.1'
5	276°05.9'	254°49.5'	N 8°56.2'	155°31.5'	6.1'	N 21°02.0'	4.1'	59.1'
6	291°08.3'	269°49.7'	N 8°57.2'	169°56.6'	6.1'	N 20°57.9'	4.3'	59.1'
7	306°10.8'	284°49.9'	N 8°58.1'	184°21.7'	6.1'	N 20°53.6'	4.4'	59.1'
8	321°13.3'	299°50.0'	N 8°59.0'	198°46.8'	6.1'	N 20°49.2'	4.6'	59.1'
9	336°15.7'	314°50.2'	N 8°59.9'	213°11.9'	6.1'	N 20°44.6'	4.7'	59.2'
10	351°18.2'	329°50.3'	N 9°00.8'	227°37.0'	6.1'	N 20°39.9'	4.8'	59.2'
11	6°20.6'	344°50.5'	N 9°01.7'	242°02.1'	6.1'	N 20°35.1'	5.0'	59.2'
12	21°23.1'	359°50.7'	N 9°02.6'	256°27.2'	6.2'	N 20°30.1'	5.1'	59.2'
13	36°25.6'	14°50.8'	N 9°03.5'	270°52.4'	6.2'	N 20°25.0'	5.2'	59.2'
14	51°28.0'	29°51.0'	N 9°04.4'	285°17.6'	6.2'	N 20°19.7'	5.4'	59.3'
15	66°30.5'	44°51.1'	N 9°05.3'	299°42.7'	6.2'	N 20°14.4'	5.5'	59.3'
16	81°33.0'	59°51.3'	N 9°06.2'	314°07.9'	6.2'	N 20°08.8'	5.7'	59.3'
17	96°35.4'	74°51.5'	N 9°07.1'	328°33.2'	6.2'	N 20°03.2'	5.8'	59.3'
18	111°37.9'	89°51.6'	N 9°08.0'	342°58.4'	6.3'	N 19°57.4'	5.9'	59.3'
19	126°40.4'	104°51.8'	N 9°08.9'	357°23.6'	6.3'	N 19°51.5'	6.1'	59.4'
20	141°42.8'	119°51.9'	N 9°09.8'	11°48.9'	6.3'	N 19°45.4'	6.2'	59.4'
21	156°45.3'	134°52.1'	N 9°10.8'	26°14.2'	6.3'	N 19°39.2'	6.3'	59.4'
22	171°47.7'	149°52.2'	N 9°11.7'	40°39.5'	6.3'	N 19°32.9'	6.4'	59.4'
23	186°50.2'	164°52.4'	N 9°12.6'	55°04.9'	6.4'	N 19°26.5'	6.6'	59.4'

Sun Apr 14, 2019 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 15.9'		SD = 16.3'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	201°52.7'	179°52.6'	N 9°13.5'	69°30.3'	6.4'	N 19°19.9'	6.7'	59.5'
1	216°55.1'	194°52.7'	N 9°14.4'	83°55.7'	6.4'	N 19°13.2'	6.8'	59.5'
2	231°57.6'	209°52.9'	N 9°15.3'	98°21.1'	6.4'	N 19°06.4'	7.0'	59.5'
3	247°00.1'	224°53.0'	N 9°16.2'	112°46.5'	6.5'	N 18°59.4'	7.1'	59.5'
4	262°02.5'	239°53.2'	N 9°17.1'	127°12.0'	6.5'	N 18°52.3'	7.2'	59.5'
5	277°05.0'	254°53.3'	N 9°18.0'	141°37.5'	6.5'	N 18°45.1'	7.3'	59.6'
6	292°07.5'	269°53.5'	N 9°18.9'	156°03.0'	6.6'	N 18°37.7'	7.5'	59.6'
7	307°09.9'	284°53.7'	N 9°19.8'	170°28.6'	6.6'	N 18°30.3'	7.6'	59.6'
8	322°12.4'	299°53.8'	N 9°20.7'	184°54.2'	6.6'	N 18°22.7'	7.7'	59.6'
9	337°14.9'	314°54.0'	N 9°21.6'	199°19.8'	6.7'	N 18°15.0'	7.8'	59.6'
10	352°17.3'	329°54.1'	N 9°22.5'	213°45.5'	6.7'	N 18°07.1'	8.0'	59.6'
11	7°19.8'	344°54.3'	N 9°23.4'	228°11.2'	6.7'	N 17°59.2'	8.1'	59.7'
12	22°22.2'	359°54.4'	N 9°24.3'	242°36.9'	6.8'	N 17°51.1'	8.2'	59.7'
13	37°24.7'	14°54.6'	N 9°25.2'	257°02.6'	6.8'	N 17°42.9'	8.3'	59.7'
14	52°27.2'	29°54.7'	N 9°26.1'	271°28.4'	6.8'	N 17°34.6'	8.4'	59.7'
15	67°29.6'	44°54.9'	N 9°27.0'	285°54.2'	6.9'	N 17°26.1'	8.6'	59.7'
16	82°32.1'	59°55.1'	N 9°27.9'	300°20.1'	6.9'	N 17°17.6'	8.7'	59.7'
17	97°34.6'	74°55.2'	N 9°28.8'	314°46.0'	6.9'	N 17°08.9'	8.8'	59.8'
18	112°37.0'	89°55.4'	N 9°29.7'	329°11.9'	7.0'	N 17°00.1'	8.9'	59.8'
19	127°39.5'	104°55.5'	N 9°30.6'	343°37.9'	7.0'	N 16°51.2'	9.0'	59.8'
20	142°42.0'	119°55.7'	N 9°31.5'	358°03.9'	7.0'	N 16°42.2'	9.1'	59.8'
21	157°44.4'	134°55.8'	N 9°32.4'	12°29.9'	7.1'	N 16°33.1'	9.2'	59.8'
22	172°46.9'	149°56.0'	N 9°33.3'	26°56.0'	7.1'	N 16°23.8'	9.3'	59.8'
23	187°49.4'	164°56.1'	N 9°34.2'	41°22.1'	7.1'	N 16°14.5'	9.5'	59.8'

Mon Apr 15, 2019 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 15.9'		SD = 16.4'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	202°51.8'	179°56.3'	N 9°35.1'	55°48.2'	7.2'	N 16°05.0'	9.6'	59.9'
1	217°54.3'	194°56.4'	N 9°36.0'	70°14.4'	7.2'	N 15°55.5'	9.7'	59.9'
2	232°56.7'	209°56.6'	N 9°36.9'	84°40.7'	7.3'	N 15°45.8'	9.8'	59.9'
3	247°59.2'	224°56.7'	N 9°37.8'	99°06.9'	7.3'	N 15°36.0'	9.9'	59.9'
4	263°01.7'	239°56.9'	N 9°38.7'	113°33.2'	7.3'	N 15°26.2'	10.0'	59.9'
5	278°04.1'	254°57.1'	N 9°39.5'	127°59.6'	7.4'	N 15°16.2'	10.1'	59.9'
6	293°06.6'	269°57.2'	N 9°40.4'	142°26.0'	7.4'	N 15°06.1'	10.2'	59.9'
7	308°09.1'	284°57.4'	N 9°41.3'	156°52.4'	7.5'	N 14°55.9'	10.3'	60.0'
8	323°11.5'	299°57.5'	N 9°42.2'	171°18.8'	7.5'	N 14°45.7'	10.4'	60.0'
9	338°14.0'	314°57.7'	N 9°43.1'	185°45.3'	7.5'	N 14°35.3'	10.5'	60.0'
10	353°16.5'	329°57.8'	N 9°44.0'	200°11.9'	7.6'	N 14°24.8'	10.6'	60.0'
11	8°18.9'	344°58.0'	N 9°44.9'	214°38.5'	7.6'	N 14°14.2'	10.7'	60.0'
12	23°21.4'	359°58.1'	N 9°45.8'	229°05.1'	7.7'	N 14°03.6'	10.8'	60.0'
13	38°23.8'	14°58.3'	N 9°46.7'	243°31.7'	7.7'	N 13°52.8'	10.8'	60.0'
14	53°26.3'	29°58.4'	N 9°47.6'	257°58.4'	7.7'	N 13°42.0'	10.9'	60.0'
15	68°28.8'	44°58.6'	N 9°48.5'	272°25.2'	7.8'	N 13°31.0'	11.0'	60.0'
16	83°31.2'	59°58.7'	N 9°49.4'	286°52.0'	7.8'	N 13°20.0'	11.1'	60.1'
17	98°33.7'	74°58.9'	N 9°50.3'	301°18.8'	7.9'	N 13°08.9'	11.2'	60.1'
18	113°36.2'	89°59.0'	N 9°51.2'	315°45.7'	7.9'	N 12°57.7'	11.3'	60.1'
19	128°38.6'	104°59.2'	N 9°52.1'	330°12.6'	7.9'	N 12°46.4'	11.4'	60.1'
20	143°41.1'	119°59.3'	N 9°52.9'	344°39.5'	8.0'	N 12°35.0'	11.5'	60.1'
21	158°43.6'	134°59.5'	N 9°53.8'	359°06.5'	8.0'	N 12°23.6'	11.5'	60.1'
22	173°46.0'	149°59.6'	N 9°54.7'	13°33.5'	8.1'	N 12°12.0'	11.6'	60.1'
23	188°48.5'	164°59.8'	N 9°55.6'	28°00.6'	8.1'	N 12°00.4'	11.7'	60.1'

Tue Apr 16, 2019 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 15.9'		SD = 16.4'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	203°51.0'	179°59.9'	N 9°56.5'	42°27.7'	8.1'	N 11°48.7'	11.8'	60.1'
1	218°53.4'	195°00.1'	N 9°57.4'	56°54.8'	8.2'	N 11°37.0'	11.8'	60.1'
2	233°55.9'	210°00.2'	N 9°58.3'	71°22.0'	8.2'	N 11°25.1'	11.9'	60.1'
3	248°58.3'	225°00.4'	N 9°59.2'	85°49.2'	8.3'	N 11°13.2'	12.0'	60.1'
4	264°00.8'	240°00.5'	N 10°00.1'	100°16.4'	8.3'	N 11°01.2'	12.1'	60.2'
5	279°03.3'	255°00.7'	N 10°01.0'	114°43.7'	8.3'	N 10°49.1'	12.1'	60.2'
6	294°05.7'	270°00.8'	N 10°01.8'	129°11.1'	8.4'	N 10°37.0'	12.2'	60.2'
7	309°08.2'	285°01.0'	N 10°02.7'	143°38.4'	8.4'	N 10°24.8'	12.3'	60.2'
8	324°10.7'	300°01.1'	N 10°03.6'	158°05.8'	8.4'	N 10°12.5'	12.3'	60.2'
9	339°13.1'	315°01.3'	N 10°04.5'	172°33.3'	8.5'	N 10°00.2'	12.4'	60.2'
10	354°15.6'	330°01.4'	N 10°05.4'	187°00.8'	8.5'	N 9°47.8'	12.5'	60.2'
11	9°18.1'	345°01.6'	N 10°06.3'	201°28.3'	8.6'	N 9°35.3'	12.5'	60.2'
12	24°20.5'	0°01.7'	N 10°07.2'	215°55.8'	8.6'	N 9°22.8'	12.6'	60.2'
13	39°23.0'	15°01.9'	N 10°08.1'	230°23.4'	8.6'	N 9°10.2'	12.6'	60.2'
14	54°25.5'	30°02.0'	N 10°08.9'	244°51.0'	8.7'	N 8°57.6'	12.7'	60.2'
15	69°27.9'	45°02.2'	N 10°09.8'	259°18.7'	8.7'	N 8°44.9'	12.8'	60.2'
16	84°30.4'	60°02.3'	N 10°10.7'	273°46.4'	8.7'	N 8°32.1'	12.8'	60.2'
17	99°32.8'	75°02.5'	N 10°11.6'	288°14.1'	8.8'	N 8°19.3'	12.9'	60.2'
18	114°35.3'	90°02.6'	N 10°12.5'	302°41.9'	8.8'	N 8°06.5'	12.9'	60.2'
19	129°37.8'	105°02.8'	N 10°13.4'	317°09.6'	8.8'	N 7°53.6'	13.0'	60.2'
20	144°40.2'	120°02.9'	N 10°14.3'	331°37.5'	8.9'	N 7°40.6'	13.0'	60.2'
21	159°42.7'	135°03.1'	N 10°15.1'	346°05.3'	8.9'	N 7°27.6'	13.1'	60.2'
22	174°45.2'	150°03.2'	N 10°16.0'	0°33.2'	8.9'	N 7°14.6'	13.1'	60.2'
23	189°47.6'	165°03.4'	N 10°16.9'	15°01.1'	8.9'	N 7°01.5'	13.1'	60.2'

Wed Apr 17, 2019 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 15.9'		SD = 16.4'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	204°50.1'	180°03.5'	N 10°17.8'	29°29.1'	9.0'	N 6°48.3'	13.2'	60.2'
1	219°52.6'	195°03.6'	N 10°18.7'	43°57.1'	9.0'	N 6°35.1'	13.2'	60.2'
2	234°55.0'	210°03.8'	N 10°19.6'	58°25.1'	9.0'	N 6°21.9'	13.3'	60.2'
3	249°57.5'	225°03.9'	N 10°20.4'	72°53.1'	9.1'	N 6°08.7'	13.3'	60.2'
4	264°59.9'	240°04.1'	N 10°21.3'	87°21.2'	9.1'	N 5°55.4'	13.3'	60.2'
5	280°02.4'	255°04.2'	N 10°22.2'	101°49.3'	9.1'	N 5°42.0'	13.4'	60.2'
6	295°04.9'	270°04.4'	N 10°23.1'	116°17.4'	9.1'	N 5°28.7'	13.4'	60.2'
7	310°07.3'	285°04.5'	N 10°24.0'	130°45.5'	9.2'	N 5°15.3'	13.4'	60.2'
8	325°09.8'	300°04.7'	N 10°24.8'	145°13.7'	9.2'	N 5°01.8'	13.5'	60.2'
9	340°12.3'	315°04.8'	N 10°25.7'	159°41.9'	9.2'	N 4°48.4'	13.5'	60.2'
10	355°14.7'	330°05.0'	N 10°26.6'	174°10.1'	9.3'	N 4°34.9'	13.5'	60.2'
11	10°17.2'	345°05.1'	N 10°27.5'	188°38.4'	9.3'	N 4°21.4'	13.5'	60.2'
12	25°19.7'	0°05.2'	N 10°28.4'	203°06.7'	9.3'	N 4°07.8'	13.6'	60.2'
13	40°22.1'	15°05.4'	N 10°29.2'	217°35.0'	9.3'	N 3°54.3'	13.6'	60.2'
14	55°24.6'	30°05.5'	N 10°30.1'	232°03.3'	9.3'	N 3°40.7'	13.6'	60.1'
15	70°27.1'	45°05.7'	N 10°31.0'	246°31.6'	9.4'	N 3°27.1'	13.6'	60.1'
16	85°29.5'	60°05.8'	N 10°31.9'	261°00.0'	9.4'	N 3°13.5'	13.6'	60.1'
17	100°32.0'	75°06.0'	N 10°32.8'	275°28.4'	9.4'	N 2°59.8'	13.7'	60.1'
18	115°34.4'	90°06.1'	N 10°33.6'	289°56.8'	9.4'	N 2°46.2'	13.7'	60.1'
19	130°36.9'	105°06.3'	N 10°34.5'	304°25.2'	9.5'	N 2°32.5'	13.7'	60.1'
20	145°39.4'	120°06.4'	N 10°35.4'	318°53.7'	9.5'	N 2°18.8'	13.7'	60.1'
21	160°41.8'	135°06.5'	N 10°36.3'	333°22.2'	9.5'	N 2°05.1'	13.7'	60.1'
22	175°44.3'	150°06.7'	N 10°37.1'	347°50.6'	9.5'	N 1°51.4'	13.7'	60.1'
23	190°46.8'	165°06.8'	N 10°38.0'	2°19.1'	9.5'	N 1°37.7'	13.7'	60.1'

Thu Apr 18, 2019 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 15.9'		SD = 16.3'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	205°49.2'	180°07.0'	N 10°38.9'	16°47.7'	9.5'	N 1°24.0'	13.7'	60.1'
1	220°51.7'	195°07.1'	N 10°39.8'	31°16.2'	9.6'	N 1°10.3'	13.7'	60.1'
2	235°54.2'	210°07.3'	N 10°40.6'	45°44.8'	9.6'	N 0°56.6'	13.7'	60.0'
3	250°56.6'	225°07.4'	N 10°41.5'	60°13.3'	9.6'	N 0°42.9'	13.7'	60.0'
4	265°59.1'	240°07.5'	N 10°42.4'	74°41.9'	9.6'	N 0°29.1'	13.7'	60.0'
5	281°01.5'	255°07.7'	N 10°43.3'	89°10.5'	9.6'	N 0°15.4'	13.7'	60.0'
6	296°04.0'	270°07.8'	N 10°44.1'	103°39.1'	9.6'	N 0°01.7'	13.7'	60.0'
7	311°06.5'	285°08.0'	N 10°45.0'	118°07.8'	9.6'	S 0°12.0'	13.7'	60.0'
8	326°08.9'	300°08.1'	N 10°45.9'	132°36.4'	9.6'	S 0°25.7'	13.7'	60.0'
9	341°11.4'	315°08.3'	N 10°46.8'	147°05.0'	9.7'	S 0°39.4'	13.7'	60.0'
10	356°13.9'	330°08.4'	N 10°47.6'	161°33.7'	9.7'	S 0°53.1'	13.7'	59.9'
11	11°16.3'	345°08.5'	N 10°48.5'	176°02.4'	9.7'	S 1°06.8'	13.7'	59.9'
12	26°18.8'	0°08.7'	N 10°49.4'	190°31.1'	9.7'	S 1°20.5'	13.7'	59.9'
13	41°21.3'	15°08.8'	N 10°50.3'	204°59.8'	9.7'	S 1°34.1'	13.6'	59.9'
14	56°23.7'	30°09.0'	N 10°51.1'	219°28.5'	9.7'	S 1°47.8'	13.6'	59.9'
15	71°26.2'	45°09.1'	N 10°52.0'	233°57.2'	9.7'	S 2°01.4'	13.6'	59.9'
16	86°28.7'	60°09.2'	N 10°52.9'	248°25.9'	9.7'	S 2°15.0'	13.6'	59.8'
17	101°31.1'	75°09.4'	N 10°53.7'	262°54.6'	9.7'	S 2°28.6'	13.6'	59.8'
18	116°33.6'	90°09.5'	N 10°54.6'	277°23.3'	9.7'	S 2°42.1'	13.5'	59.8'
19	131°36.0'	105°09.7'	N 10°55.5'	291°52.1'	9.7'	S 2°55.7'	13.5'	59.8'
20	146°38.5'	120°09.8'	N 10°56.3'	306°20.8'	9.7'	S 3°09.2'	13.5'	59.8'
21	161°41.0'	135°09.9'	N 10°57.2'	320°49.5'	9.7'	S 3°22.7'	13.5'	59.8'
22	176°43.4'	150°10.1'	N 10°58.1'	335°18.3'	9.8'	S 3°36.1'	13.4'	59.7'
23	191°45.9'	165°10.2'	N 10°59.0'	349°47.0'	9.8'	S 3°49.6'	13.4'	59.7'

Fri Apr 19, 2019 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 15.9'		SD = 16.2'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	206°48.4'	180°10.4'	N 10°59.8'	4°15.8'	9.8'	S 4°03.0'	13.4'	59.7'
1	221°50.8'	195°10.5'	N 11°00.7'	18°44.6'	9.8'	S 4°16.4'	13.3'	59.7'
2	236°53.3'	210°10.6'	N 11°01.6'	33°13.3'	9.8'	S 4°29.7'	13.3'	59.7'
3	251°55.8'	225°10.8'	N 11°02.4'	47°42.1'	9.8'	S 4°43.0'	13.3'	59.6'
4	266°58.2'	240°10.9'	N 11°03.3'	62°10.8'	9.8'	S 4°56.3'	13.2'	59.6'
5	282°00.7'	255°11.0'	N 11°04.2'	76°39.6'	9.8'	S 5°09.5'	13.2'	59.6'
6	297°03.1'	270°11.2'	N 11°05.0'	91°08.4'	9.8'	S 5°22.7'	13.2'	59.6'
7	312°05.6'	285°11.3'	N 11°05.9'	105°37.1'	9.8'	S 5°35.9'	13.1'	59.6'
8	327°08.1'	300°11.5'	N 11°06.8'	120°05.9'	9.8'	S 5°49.0'	13.1'	59.5'
9	342°10.5'	315°11.6'	N 11°07.6'	134°34.7'	9.8'	S 6°02.1'	13.0'	59.5'
10	357°13.0'	330°11.7'	N 11°08.5'	149°03.4'	9.8'	S 6°15.1'	13.0'	59.5'
11	12°15.5'	345°11.9'	N 11°09.4'	163°32.2'	9.8'	S 6°28.1'	12.9'	59.5'
12	27°17.9'	0°12.0'	N 11°10.2'	178°00.9'	9.7'	S 6°41.0'	12.9'	59.4'
13	42°20.4'	15°12.1'	N 11°11.1'	192°29.7'	9.7'	S 6°53.9'	12.8'	59.4'
14	57°22.9'	30°12.3'	N 11°11.9'	206°58.4'	9.7'	S 7°06.8'	12.8'	59.4'
15	72°25.3'	45°12.4'	N 11°12.8'	221°27.2'	9.7'	S 7°19.6'	12.7'	59.4'
16	87°27.8'	60°12.5'	N 11°13.7'	235°55.9'	9.7'	S 7°32.3'	12.7'	59.4'
17	102°30.3'	75°12.7'	N 11°14.5'	250°24.6'	9.7'	S 7°45.0'	12.6'	59.3'
18	117°32.7'	90°12.8'	N 11°15.4'	264°53.4'	9.7'	S 7°57.6'	12.6'	59.3'
19	132°35.2'	105°13.0'	N 11°16.3'	279°22.1'	9.7'	S 8°10.2'	12.5'	59.3'
20	147°37.6'	120°13.1'	N 11°17.1'	293°50.8'	9.7'	S 8°22.7'	12.5'	59.2'
21	162°40.1'	135°13.2'	N 11°18.0'	308°19.5'	9.7'	S 8°35.2'	12.4'	59.2'
22	177°42.6'	150°13.4'	N 11°18.8'	322°48.2'	9.7'	S 8°47.6'	12.3'	59.2'
23	192°45.0'	165°13.5'	N 11°19.7'	337°16.9'	9.7'	S 8°59.9'	12.3'	59.2'

Sat Apr 20, 2019 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 15.9'		SD = 16.0'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	207°47.5'	180°13.6'	N 11°20.6'	351°45.6'	9.7'	S 9°12.2'	12.2'	59.1'
1	222°50.0'	195°13.8'	N 11°21.4'	6°14.3'	9.7'	S 9°24.4'	12.2'	59.1'
2	237°52.4'	210°13.9'	N 11°22.3'	20°42.9'	9.7'	S 9°36.6'	12.1'	59.1'
3	252°54.9'	225°14.0'	N 11°23.1'	35°11.6'	9.7'	S 9°48.7'	12.0'	59.1'
4	267°57.4'	240°14.2'	N 11°24.0'	49°40.3'	9.6'	S 10°00.7'	12.0'	59.0'
5	282°59.8'	255°14.3'	N 11°24.9'	64°08.9'	9.6'	S 10°12.6'	11.9'	59.0'
6	298°02.3'	270°14.4'	N 11°25.7'	78°37.5'	9.6'	S 10°24.5'	11.8'	59.0'
7	313°04.8'	285°14.6'	N 11°26.6'	93°06.2'	9.6'	S 10°36.3'	11.7'	58.9'
8	328°07.2'	300°14.7'	N 11°27.4'	107°34.8'	9.6'	S 10°48.1'	11.7'	58.9'
9	343°09.7'	315°14.8'	N 11°28.3'	122°03.4'	9.6'	S 10°59.7'	11.6'	58.9'
10	358°12.1'	330°15.0'	N 11°29.2'	136°32.0'	9.6'	S 11°11.3'	11.5'	58.9'
11	13°14.6'	345°15.1'	N 11°30.0'	151°00.6'	9.6'	S 11°22.9'	11.4'	58.8'
12	28°17.1'	0°15.2'	N 11°30.9'	165°29.2'	9.6'	S 11°34.3'	11.4'	58.8'
13	43°19.5'	15°15.4'	N 11°31.7'	179°57.7'	9.6'	S 11°45.7'	11.3'	58.8'
14	58°22.0'	30°15.5'	N 11°32.6'	194°26.3'	9.5'	S 11°56.9'	11.2'	58.7'
15	73°24.5'	45°15.6'	N 11°33.4'	208°54.8'	9.5'	S 12°08.2'	11.1'	58.7'
16	88°26.9'	60°15.8'	N 11°34.3'	223°23.3'	9.5'	S 12°19.3'	11.0'	58.7'
17	103°29.4'	75°15.9'	N 11°35.2'	237°51.9'	9.5'	S 12°30.3'	11.0'	58.7'
18	118°31.9'	90°16.0'	N 11°36.0'	252°20.4'	9.5'	S 12°41.3'	10.9'	58.6'
19	133°34.3'	105°16.1'	N 11°36.9'	266°48.9'	9.5'	S 12°52.2'	10.8'	58.6'
20	148°36.8'	120°16.3'	N 11°37.7'	281°17.4'	9.5'	S 13°03.0'	10.7'	58.6'
21	163°39.2'	135°16.4'	N 11°38.6'	295°45.8'	9.5'	S 13°13.7'	10.6'	58.5'
22	178°41.7'	150°16.5'	N 11°39.4'	310°14.3'	9.5'	S 13°24.3'	10.5'	58.5'
23	193°44.2'	165°16.7'	N 11°40.3'	324°42.8'	9.4'	S 13°34.8'	10.4'	58.5'

Sun Apr 21, 2019 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.8' SD = 15.9'		SD = 15.8'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	208°46.6'	180°16.8'	N 11°41.1'	339°11.2'	9.4'	S 13°45.3'	10.4'	58.4'
1	223°49.1'	195°16.9'	N 11°42.0'	353°39.6'	9.4'	S 13°55.7'	10.3'	58.4'
2	238°51.6'	210°17.1'	N 11°42.8'	8°08.0'	9.4'	S 14°05.9'	10.2'	58.4'
3	253°54.0'	225°17.2'	N 11°43.7'	22°36.5'	9.4'	S 14°16.1'	10.1'	58.3'
4	268°56.5'	240°17.3'	N 11°44.5'	37°04.9'	9.4'	S 14°26.2'	10.0'	58.3'
5	283°59.0'	255°17.4'	N 11°45.4'	51°33.2'	9.4'	S 14°36.2'	9.9'	58.3'
6	299°01.4'	270°17.6'	N 11°46.2'	66°01.6'	9.4'	S 14°46.1'	9.8'	58.2'
7	314°03.9'	285°17.7'	N 11°47.1'	80°30.0'	9.3'	S 14°55.9'	9.7'	58.2'
8	329°06.4'	300°17.8'	N 11°47.9'	94°58.3'	9.3'	S 15°05.6'	9.6'	58.2'
9	344°08.8'	315°18.0'	N 11°48.8'	109°26.7'	9.3'	S 15°15.2'	9.5'	58.1'
10	359°11.3'	330°18.1'	N 11°49.6'	123°55.0'	9.3'	S 15°24.7'	9.4'	58.1'
11	14°13.7'	345°18.2'	N 11°50.5'	138°23.3'	9.3'	S 15°34.1'	9.3'	58.1'
12	29°16.2'	0°18.3'	N 11°51.3'	152°51.6'	9.3'	S 15°43.5'	9.2'	58.0'
13	44°18.7'	15°18.5'	N 11°52.2'	167°19.9'	9.3'	S 15°52.7'	9.1'	58.0'
14	59°21.1'	30°18.6'	N 11°53.0'	181°48.2'	9.3'	S 16°01.8'	9.0'	58.0'
15	74°23.6'	45°18.7'	N 11°53.9'	196°16.5'	9.3'	S 16°10.8'	8.9'	57.9'
16	89°26.1'	60°18.9'	N 11°54.7'	210°44.7'	9.3'	S 16°19.8'	8.8'	57.9'
17	104°28.5'	75°19.0'	N 11°55.6'	225°13.0'	9.2'	S 16°28.6'	8.7'	57.9'
18	119°31.0'	90°19.1'	N 11°56.4'	239°41.2'	9.2'	S 16°37.3'	8.6'	57.8'
19	134°33.5'	105°19.2'	N 11°57.3'	254°09.5'	9.2'	S 16°45.9'	8.5'	57.8'
20	149°35.9'	120°19.4'	N 11°58.1'	268°37.7'	9.2'	S 16°54.4'	8.4'	57.8'
21	164°38.4'	135°19.5'	N 11°59.0'	283°05.9'	9.2'	S 17°02.8'	8.3'	57.7'
22	179°40.9'	150°19.6'	N 11°59.8'	297°34.1'	9.2'	S 17°11.1'	8.2'	57.7'
23	194°43.3'	165°19.7'	N 12°00.7'	312°02.3'	9.2'	S 17°19.3'	8.1'	57.7'

Mon Apr 22, 2019 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.8' SD = 15.9'		SD = 15.6'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	209°45.8'	180°19.9'	N 12°01.5'	326°30.5'	9.2'	S 17°27.4'	8.0'	57.6'
1	224°48.2'	195°20.0'	N 12°02.3'	340°58.7'	9.2'	S 17°35.3'	7.9'	57.6'
2	239°50.7'	210°20.1'	N 12°03.2'	355°26.9'	9.2'	S 17°43.2'	7.8'	57.6'
3	254°53.2'	225°20.2'	N 12°04.0'	9°55.1'	9.2'	S 17°51.0'	7.6'	57.5'
4	269°55.6'	240°20.4'	N 12°04.9'	24°23.3'	9.2'	S 17°58.6'	7.5'	57.5'
5	284°58.1'	255°20.5'	N 12°05.7'	38°51.4'	9.2'	S 18°06.1'	7.4'	57.5'
6	300°00.6'	270°20.6'	N 12°06.6'	53°19.6'	9.2'	S 18°13.6'	7.3'	57.4'
7	315°03.0'	285°20.7'	N 12°07.4'	67°47.7'	9.1'	S 18°20.9'	7.2'	57.4'
8	330°05.5'	300°20.9'	N 12°08.2'	82°15.9'	9.1'	S 18°28.1'	7.1'	57.4'
9	345°08.0'	315°21.0'	N 12°09.1'	96°44.0'	9.1'	S 18°35.2'	7.0'	57.3'
10	0°10.4'	330°21.1'	N 12°09.9'	111°12.2'	9.1'	S 18°42.2'	6.9'	57.3'
11	15°12.9'	345°21.2'	N 12°10.8'	125°40.3'	9.1'	S 18°49.0'	6.8'	57.3'
12	30°15.3'	0°21.4'	N 12°11.6'	140°08.4'	9.1'	S 18°55.8'	6.6'	57.2'
13	45°17.8'	15°21.5'	N 12°12.4'	154°36.6'	9.1'	S 19°02.4'	6.5'	57.2'
14	60°20.3'	30°21.6'	N 12°13.3'	169°04.7'	9.1'	S 19°09.0'	6.4'	57.2'
15	75°22.7'	45°21.7'	N 12°14.1'	183°32.8'	9.1'	S 19°15.4'	6.3'	57.1'
16	90°25.2'	60°21.8'	N 12°15.0'	198°01.0'	9.1'	S 19°21.7'	6.2'	57.1'
17	105°27.7'	75°22.0'	N 12°15.8'	212°29.1'	9.1'	S 19°27.9'	6.1'	57.0'
18	120°30.1'	90°22.1'	N 12°16.6'	226°57.2'	9.1'	S 19°33.9'	6.0'	57.0'
19	135°32.6'	105°22.2'	N 12°17.5'	241°25.4'	9.1'	S 19°39.9'	5.8'	57.0'
20	150°35.1'	120°22.3'	N 12°18.3'	255°53.5'	9.1'	S 19°45.7'	5.7'	56.9'
21	165°37.5'	135°22.4'	N 12°19.2'	270°21.6'	9.1'	S 19°51.5'	5.6'	56.9'
22	180°40.0'	150°22.6'	N 12°20.0'	284°49.8'	9.1'	S 19°57.1'	5.5'	56.9'
23	195°42.5'	165°22.7'	N 12°20.8'	299°17.9'	9.1'	S 20°02.6'	5.4'	56.8'

Tue Apr 23, 2019 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.8' SD = 15.9'		SD = 15.4'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	210°44.9'	180°22.8'	N 12°21.7'	313°46.1'	9.2'	S 20°07.9'	5.3'	56.8'
1	225°47.4'	195°22.9'	N 12°22.5'	328°14.2'	9.2'	S 20°13.2'	5.1'	56.8'
2	240°49.8'	210°23.1'	N 12°23.3'	342°42.4'	9.2'	S 20°18.3'	5.0'	56.7'
3	255°52.3'	225°23.2'	N 12°24.2'	357°10.5'	9.2'	S 20°23.3'	4.9'	56.7'
4	270°54.8'	240°23.3'	N 12°25.0'	11°38.7'	9.2'	S 20°28.3'	4.8'	56.7'
5	285°57.2'	255°23.4'	N 12°25.8'	26°06.9'	9.2'	S 20°33.0'	4.7'	56.6'
6	300°59.7'	270°23.5'	N 12°26.7'	40°35.1'	9.2'	S 20°37.7'	4.6'	56.6'
7	316°02.2'	285°23.7'	N 12°27.5'	55°03.3'	9.2'	S 20°42.3'	4.4'	56.6'
8	331°04.6'	300°23.8'	N 12°28.3'	69°31.5'	9.2'	S 20°46.7'	4.3'	56.5'
9	346°07.1'	315°23.9'	N 12°29.2'	83°59.7'	9.2'	S 20°51.0'	4.2'	56.5'
10	1°09.6'	330°24.0'	N 12°30.0'	98°27.9'	9.2'	S 20°55.2'	4.1'	56.5'
11	16°12.0'	345°24.1'	N 12°30.8'	112°56.1'	9.2'	S 20°59.3'	4.0'	56.4'
12	31°14.5'	0°24.2'	N 12°31.7'	127°24.4'	9.3'	S 21°03.2'	3.8'	56.4'
13	46°17.0'	15°24.4'	N 12°32.5'	141°52.6'	9.3'	S 21°07.1'	3.7'	56.4'
14	61°19.4'	30°24.5'	N 12°33.3'	156°20.9'	9.3'	S 21°10.8'	3.6'	56.4'
15	76°21.9'	45°24.6'	N 12°34.2'	170°49.2'	9.3'	S 21°14.4'	3.5'	56.3'
16	91°24.3'	60°24.7'	N 12°35.0'	185°17.4'	9.3'	S 21°17.9'	3.4'	56.3'
17	106°26.8'	75°24.8'	N 12°35.8'	199°45.8'	9.3'	S 21°21.2'	3.2'	56.3'
18	121°29.3'	90°24.9'	N 12°36.7'	214°14.1'	9.3'	S 21°24.5'	3.1'	56.2'
19	136°31.7'	105°25.1'	N 12°37.5'	228°42.4'	9.4'	S 21°27.6'	3.0'	56.2'
20	151°34.2'	120°25.2'	N 12°38.3'	243°10.8'	9.4'	S 21°30.6'	2.9'	56.2'
21	166°36.7'	135°25.3'	N 12°39.2'	257°39.2'	9.4'	S 21°33.5'	2.8'	56.1'
22	181°39.1'	150°25.4'	N 12°40.0'	272°07.5'	9.4'	S 21°36.3'	2.7'	56.1'
23	196°41.6'	165°25.5'	N 12°40.8'	286°36.0'	9.4'	S 21°38.9'	2.5'	56.1'

Wed Apr 24, 2019 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.8' SD = 15.9'		SD = 15.2'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	211°44.1'	180°25.6'	N 12°41.6'	301°04.4'	9.5'	S 21°41.5'	2.4'	56.0'
1	226°46.5'	195°25.8'	N 12°42.5'	315°32.8'	9.5'	S 21°43.9'	2.3'	56.0'
2	241°49.0'	210°25.9'	N 12°43.3'	330°01.3'	9.5'	S 21°46.2'	2.2'	56.0'
3	256°51.5'	225°26.0'	N 12°44.1'	344°29.8'	9.5'	S 21°48.4'	2.1'	55.9'
4	271°53.9'	240°26.1'	N 12°44.9'	358°58.3'	9.5'	S 21°50.4'	1.9'	55.9'
5	286°56.4'	255°26.2'	N 12°45.8'	13°26.9'	9.6'	S 21°52.4'	1.8'	55.9'
6	301°58.8'	270°26.3'	N 12°46.6'	27°55.4'	9.6'	S 21°54.2'	1.7'	55.9'
7	317°01.3'	285°26.4'	N 12°47.4'	42°24.0'	9.6'	S 21°55.9'	1.6'	55.8'
8	332°03.8'	300°26.6'	N 12°48.2'	56°52.6'	9.6'	S 21°57.5'	1.5'	55.8'
9	347°06.2'	315°26.7'	N 12°49.1'	71°21.3'	9.7'	S 21°59.0'	1.4'	55.8'
10	2°08.7'	330°26.8'	N 12°49.9'	85°49.9'	9.7'	S 22°00.3'	1.2'	55.7'
11	17°11.2'	345°26.9'	N 12°50.7'	100°18.6'	9.7'	S 22°01.6'	1.1'	55.7'
12	32°13.6'	0°27.0'	N 12°51.5'	114°47.3'	9.7'	S 22°02.7'	1.0'	55.7'
13	47°16.1'	15°27.1'	N 12°52.4'	129°16.1'	9.8'	S 22°03.7'	0.9'	55.7'
14	62°18.6'	30°27.2'	N 12°53.2'	143°44.9'	9.8'	S 22°04.6'	0.8'	55.6'
15	77°21.0'	45°27.4'	N 12°54.0'	158°13.7'	9.8'	S 22°05.4'	0.7'	55.6'
16	92°23.5'	60°27.5'	N 12°54.8'	172°42.5'	9.9'	S 22°06.0'	0.5'	55.6'
17	107°25.9'	75°27.6'	N 12°55.7'	187°11.4'	9.9'	S 22°06.6'	0.4'	55.5'
18	122°28.4'	90°27.7'	N 12°56.5'	201°40.3'	9.9'	S 22°07.0'	0.3'	55.5'
19	137°30.9'	105°27.8'	N 12°57.3'	216°09.2'	10.0'	S 22°07.3'	0.2'	55.5'
20	152°33.3'	120°27.9'	N 12°58.1'	230°38.2'	10.0'	S 22°07.5'	0.1'	55.5'
21	167°35.8'	135°28.0'	N 12°58.9'	245°07.2'	10.0'	S 22°07.6'	0.0'	55.4'
22	182°38.3'	150°28.1'	N 12°59.8'	259°36.2'	10.1'	S 22°07.6'	0.1'	55.4'
23	197°40.7'	165°28.2'	N 13°00.6'	274°05.2'	10.1'	S 22°07.5'	0.2'	55.4'

Thu Apr 25, 2019 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.8' SD = 15.9'		SD = 15.0'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	212°43.2'	180°28.4'	N 13°01.4'	288°34.3'	10.1'	S 22°07.2'	0.4'	55.4'
1	227°45.7'	195°28.5'	N 13°02.2'	303°03.5'	10.2'	S 22°06.8'	0.5'	55.3'
2	242°48.1'	210°28.6'	N 13°03.0'	317°32.6'	10.2'	S 22°06.4'	0.6'	55.3'
3	257°50.6'	225°28.7'	N 13°03.9'	332°01.9'	10.2'	S 22°05.8'	0.7'	55.3'
4	272°53.1'	240°28.8'	N 13°04.7'	346°31.1'	10.3'	S 22°05.1'	0.8'	55.3'
5	287°55.5'	255°28.9'	N 13°05.5'	1°00.4'	10.3'	S 22°04.3'	0.9'	55.2'
6	302°58.0'	270°29.0'	N 13°06.3'	15°29.7'	10.4'	S 22°03.4'	1.0'	55.2'
7	318°00.4'	285°29.1'	N 13°07.1'	29°59.0'	10.4'	S 22°02.3'	1.1'	55.2'
8	333°02.9'	300°29.2'	N 13°07.9'	44°28.4'	10.4'	S 22°01.2'	1.2'	55.2'
9	348°05.4'	315°29.3'	N 13°08.8'	58°57.9'	10.5'	S 21°60.0'	1.4'	55.1'
10	3°07.8'	330°29.5'	N 13°09.6'	73°27.3'	10.5'	S 21°58.6'	1.5'	55.1'
11	18°10.3'	345°29.6'	N 13°10.4'	87°56.9'	10.6'	S 21°57.1'	1.6'	55.1'
12	33°12.8'	0°29.7'	N 13°11.2'	102°26.4'	10.6'	S 21°55.6'	1.7'	55.1'
13	48°15.2'	15°29.8'	N 13°12.0'	116°56.0'	10.6'	S 21°53.9'	1.8'	55.1'
14	63°17.7'	30°29.9'	N 13°12.8'	131°25.6'	10.7'	S 21°52.1'	1.9'	55.0'
15	78°20.2'	45°30.0'	N 13°13.6'	145°55.3'	10.7'	S 21°50.2'	2.0'	55.0'
16	93°22.6'	60°30.1'	N 13°14.5'	160°25.0'	10.8'	S 21°48.2'	2.1'	55.0'
17	108°25.1'	75°30.2'	N 13°15.3'	174°54.8'	10.8'	S 21°46.1'	2.2'	55.0'
18	123°27.6'	90°30.3'	N 13°16.1'	189°24.6'	10.9'	S 21°43.9'	2.3'	54.9'
19	138°30.0'	105°30.4'	N 13°16.9'	203°54.5'	10.9'	S 21°41.6'	2.4'	54.9'
20	153°32.5'	120°30.5'	N 13°17.7'	218°24.4'	10.9'	S 21°39.2'	2.5'	54.9'
21	168°34.9'	135°30.6'	N 13°18.5'	232°54.3'	11.0'	S 21°36.6'	2.6'	54.9'
22	183°37.4'	150°30.7'	N 13°19.3'	247°24.3'	11.0'	S 21°34.0'	2.7'	54.9'
23	198°39.9'	165°30.8'	N 13°20.1'	261°54.3'	11.1'	S 21°31.3'	2.8'	54.8'

Fri Apr 26, 2019 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.8' SD = 15.9'		SD = 14.9'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	213°42.3'	180°30.9'	N 13°20.9'	276°24.4'	11.1'	S 21°28.4'	2.9'	54.8'
1	228°44.8'	195°31.1'	N 13°21.8'	290°54.5'	11.2'	S 21°25.5'	3.0'	54.8'
2	243°47.3'	210°31.2'	N 13°22.6'	305°24.7'	11.2'	S 21°22.5'	3.1'	54.8'
3	258°49.7'	225°31.3'	N 13°23.4'	319°54.9'	11.3'	S 21°19.4'	3.2'	54.8'
4	273°52.2'	240°31.4'	N 13°24.2'	334°25.1'	11.3'	S 21°16.1'	3.3'	54.8'
5	288°54.7'	255°31.5'	N 13°25.0'	348°55.4'	11.3'	S 21°12.8'	3.4'	54.7'
6	303°57.1'	270°31.6'	N 13°25.8'	3°25.8'	11.4'	S 21°09.4'	3.5'	54.7'
7	318°59.6'	285°31.7'	N 13°26.6'	17°56.2'	11.4'	S 21°05.8'	3.6'	54.7'
8	334°02.1'	300°31.8'	N 13°27.4'	32°26.6'	11.5'	S 21°02.2'	3.7'	54.7'
9	349°04.5'	315°31.9'	N 13°28.2'	46°57.1'	11.5'	S 20°58.5'	3.8'	54.7'
10	4°07.0'	330°32.0'	N 13°29.0'	61°27.6'	11.6'	S 20°54.6'	3.9'	54.6'
11	19°09.4'	345°32.1'	N 13°29.8'	75°58.2'	11.6'	S 20°50.7'	4.0'	54.6'
12	34°11.9'	0°32.2'	N 13°30.6'	90°28.9'	11.7'	S 20°46.7'	4.1'	54.6'
13	49°14.4'	15°32.3'	N 13°31.4'	104°59.5'	11.7'	S 20°42.6'	4.2'	54.6'
14	64°16.8'	30°32.4'	N 13°32.2'	119°30.3'	11.8'	S 20°38.4'	4.3'	54.6'
15	79°19.3'	45°32.5'	N 13°33.1'	134°01.0'	11.8'	S 20°34.1'	4.4'	54.6'
16	94°21.8'	60°32.6'	N 13°33.9'	148°31.9'	11.9'	S 20°29.7'	4.5'	54.6'
17	109°24.2'	75°32.7'	N 13°34.7'	163°02.7'	11.9'	S 20°25.2'	4.6'	54.5'
18	124°26.7'	90°32.8'	N 13°35.5'	177°33.7'	12.0'	S 20°20.7'	4.7'	54.5'
19	139°29.2'	105°32.9'	N 13°36.3'	192°04.6'	12.0'	S 20°16.0'	4.8'	54.5'
20	154°31.6'	120°33.0'	N 13°37.1'	206°35.6'	12.1'	S 20°11.2'	4.9'	54.5'
21	169°34.1'	135°33.1'	N 13°37.9'	221°06.7'	12.1'	S 20°06.4'	4.9'	54.5'
22	184°36.5'	150°33.2'	N 13°38.7'	235°37.8'	12.2'	S 20°01.4'	5.0'	54.5'
23	199°39.0'	165°33.3'	N 13°39.5'	250°09.0'	12.2'	S 19°56.4'	5.1'	54.5'

Sat Apr 27, 2019 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.8' SD = 15.9'		SD = 14.8'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	214°41.5'	180°33.4'	N 13°40.3'	264°40.2'	12.3'	S 19°51.3'	5.2'	54.4'
1	229°43.9'	195°33.5'	N 13°41.1'	279°11.5'	12.3'	S 19°46.1'	5.3'	54.4'
2	244°46.4'	210°33.6'	N 13°41.9'	293°42.8'	12.4'	S 19°40.8'	5.4'	54.4'
3	259°48.9'	225°33.7'	N 13°42.7'	308°14.1'	12.4'	S 19°35.4'	5.5'	54.4'
4	274°51.3'	240°33.8'	N 13°43.5'	322°45.5'	12.4'	S 19°29.9'	5.6'	54.4'
5	289°53.8'	255°33.9'	N 13°44.3'	337°17.0'	12.5'	S 19°24.4'	5.6'	54.4'
6	304°56.3'	270°34.0'	N 13°45.1'	351°48.5'	12.5'	S 19°18.7'	5.7'	54.4'
7	319°58.7'	285°34.1'	N 13°45.9'	6°20.0'	12.6'	S 19°13.0'	5.8'	54.4'
8	335°01.2'	300°34.2'	N 13°46.7'	20°51.6'	12.6'	S 19°07.2'	5.9'	54.4'
9	350°03.7'	315°34.3'	N 13°47.5'	35°23.2'	12.7'	S 19°01.3'	6.0'	54.3'
10	5°06.1'	330°34.4'	N 13°48.3'	49°54.9'	12.7'	S 18°55.3'	6.1'	54.3'
11	20°08.6'	345°34.5'	N 13°49.1'	64°26.7'	12.8'	S 18°49.3'	6.1'	54.3'
12	35°11.0'	0°34.6'	N 13°49.9'	78°58.4'	12.8'	S 18°43.1'	6.2'	54.3'
13	50°13.5'	15°34.7'	N 13°50.7'	93°30.3'	12.9'	S 18°36.9'	6.3'	54.3'
14	65°16.0'	30°34.8'	N 13°51.4'	108°02.1'	12.9'	S 18°30.6'	6.4'	54.3'
15	80°18.4'	45°34.9'	N 13°52.2'	122°34.1'	13.0'	S 18°24.2'	6.5'	54.3'
16	95°20.9'	60°35.0'	N 13°53.0'	137°06.0'	13.0'	S 18°17.8'	6.5'	54.3'
17	110°23.4'	75°35.1'	N 13°53.8'	151°38.1'	13.1'	S 18°11.2'	6.6'	54.3'
18	125°25.8'	90°35.2'	N 13°54.6'	166°10.1'	13.1'	S 18°04.6'	6.7'	54.3'
19	140°28.3'	105°35.3'	N 13°55.4'	180°42.2'	13.2'	S 17°57.9'	6.8'	54.3'
20	155°30.8'	120°35.4'	N 13°56.2'	195°14.4'	13.2'	S 17°51.2'	6.8'	54.3'
21	170°33.2'	135°35.5'	N 13°57.0'	209°46.6'	13.2'	S 17°44.3'	6.9'	54.3'
22	185°35.7'	150°35.6'	N 13°57.8'	224°18.8'	13.3'	S 17°37.4'	7.0'	54.2'
23	200°38.2'	165°35.6'	N 13°58.6'	238°51.1'	13.3'	S 17°30.4'	7.1'	54.2'

Sun Apr 28, 2019 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.8' SD = 15.9'		SD = 14.8'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	215°40.6'	180°35.7'	N 13°59.4'	253°23.4'	13.4'	S 17°23.3'	7.1'	54.2'
1	230°43.1'	195°35.8'	N 14°00.2'	267°55.8'	13.4'	S 17°16.2'	7.2'	54.2'
2	245°45.5'	210°35.9'	N 14°01.0'	282°28.2'	13.5'	S 17°08.9'	7.3'	54.2'
3	260°48.0'	225°36.0'	N 14°01.8'	297°00.7'	13.5'	S 17°01.6'	7.4'	54.2'
4	275°50.5'	240°36.1'	N 14°02.5'	311°33.2'	13.5'	S 16°54.3'	7.4'	54.2'
5	290°52.9'	255°36.2'	N 14°03.3'	326°05.7'	13.6'	S 16°46.8'	7.5'	54.2'
6	305°55.4'	270°36.3'	N 14°04.1'	340°38.3'	13.6'	S 16°39.3'	7.6'	54.2'
7	320°57.9'	285°36.4'	N 14°04.9'	355°10.9'	13.7'	S 16°31.7'	7.7'	54.2'
8	336°00.3'	300°36.5'	N 14°05.7'	9°43.6'	13.7'	S 16°24.1'	7.7'	54.2'
9	351°02.8'	315°36.6'	N 14°06.5'	24°16.3'	13.8'	S 16°16.4'	7.8'	54.2'
10	6°05.3'	330°36.7'	N 14°07.3'	38°49.1'	13.8'	S 16°08.6'	7.9'	54.2'
11	21°07.7'	345°36.8'	N 14°08.1'	53°21.9'	13.8'	S 16°00.7'	7.9'	54.2'
12	36°10.2'	0°36.9'	N 14°08.9'	67°54.7'	13.9'	S 15°52.8'	8.0'	54.2'
13	51°12.6'	15°37.0'	N 14°09.6'	82°27.6'	13.9'	S 15°44.8'	8.1'	54.2'
14	66°15.1'	30°37.0'	N 14°10.4'	97°00.5'	14.0'	S 15°36.7'	8.1'	54.2'
15	81°17.6'	45°37.1'	N 14°11.2'	111°33.5'	14.0'	S 15°28.6'	8.2'	54.2'
16	96°20.0'	60°37.2'	N 14°12.0'	126°06.5'	14.0'	S 15°20.4'	8.3'	54.2'
17	111°22.5'	75°37.3'	N 14°12.8'	140°39.5'	14.1'	S 15°12.2'	8.3'	54.2'
18	126°25.0'	90°37.4'	N 14°13.6'	155°12.5'	14.1'	S 15°03.9'	8.4'	54.2'
19	141°27.4'	105°37.5'	N 14°14.3'	169°45.7'	14.1'	S 14°55.5'	8.4'	54.2'
20	156°29.9'	120°37.6'	N 14°15.1'	184°18.8'	14.2'	S 14°47.0'	8.5'	54.2'
21	171°32.4'	135°37.7'	N 14°15.9'	198°52.0'	14.2'	S 14°38.5'	8.6'	54.2'
22	186°34.8'	150°37.8'	N 14°16.7'	213°25.2'	14.2'	S 14°30.0'	8.6'	54.2'
23	201°37.3'	165°37.9'	N 14°17.5'	227°58.4'	14.3'	S 14°21.3'	8.7'	54.2'

Mon Apr 29, 2019 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.8' SD = 15.9'		SD = 14.8'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	216°39.8'	180°37.9'	N 14°18.3'	242°31.7'	14.3'	S 14°12.6'	8.8'	54.2'
1	231°42.2'	195°38.0'	N 14°19.0'	257°05.0'	14.3'	S 14°03.9'	8.8'	54.2'
2	246°44.7'	210°38.1'	N 14°19.8'	271°38.4'	14.4'	S 13°55.1'	8.9'	54.2'
3	261°47.1'	225°38.2'	N 14°20.6'	286°11.7'	14.4'	S 13°46.2'	8.9'	54.2'
4	276°49.6'	240°38.3'	N 14°21.4'	300°45.2'	14.4'	S 13°37.3'	9.0'	54.2'
5	291°52.1'	255°38.4'	N 14°22.2'	315°18.6'	14.5'	S 13°28.3'	9.0'	54.2'
6	306°54.5'	270°38.5'	N 14°22.9'	329°52.1'	14.5'	S 13°19.2'	9.1'	54.2'
7	321°57.0'	285°38.6'	N 14°23.7'	344°25.6'	14.5'	S 13°10.1'	9.2'	54.2'
8	336°59.5'	300°38.6'	N 14°24.5'	358°59.1'	14.6'	S 13°01.0'	9.2'	54.2'
9	352°01.9'	315°38.7'	N 14°25.3'	13°32.7'	14.6'	S 12°51.8'	9.3'	54.2'
10	7°04.4'	330°38.8'	N 14°26.1'	28°06.3'	14.6'	S 12°42.5'	9.3'	54.2'
11	22°06.9'	345°38.9'	N 14°26.8'	42°39.9'	14.7'	S 12°33.2'	9.4'	54.2'
12	37°09.3'	0°39.0'	N 14°27.6'	57°13.6'	14.7'	S 12°23.8'	9.4'	54.2'
13	52°11.8'	15°39.1'	N 14°28.4'	71°47.3'	14.7'	S 12°14.4'	9.5'	54.2'
14	67°14.3'	30°39.2'	N 14°29.2'	86°21.0'	14.7'	S 12°04.9'	9.5'	54.3'
15	82°16.7'	45°39.3'	N 14°29.9'	100°54.7'	14.8'	S 11°55.4'	9.6'	54.3'
16	97°19.2'	60°39.3'	N 14°30.7'	115°28.5'	14.8'	S 11°45.8'	9.6'	54.3'
17	112°21.6'	75°39.4'	N 14°31.5'	130°02.2'	14.8'	S 11°36.1'	9.7'	54.3'
18	127°24.1'	90°39.5'	N 14°32.3'	144°36.0'	14.8'	S 11°26.5'	9.7'	54.3'
19	142°26.6'	105°39.6'	N 14°33.0'	159°09.9'	14.9'	S 11°16.7'	9.8'	54.3'
20	157°29.0'	120°39.7'	N 14°33.8'	173°43.7'	14.9'	S 11°06.9'	9.8'	54.3'
21	172°31.5'	135°39.8'	N 14°34.6'	188°17.6'	14.9'	S 10°57.1'	9.9'	54.3'
22	187°34.0'	150°39.8'	N 14°35.4'	202°51.5'	14.9'	S 10°47.2'	9.9'	54.3'
23	202°36.4'	165°39.9'	N 14°36.1'	217°25.4'	14.9'	S 10°37.3'	10.0'	54.3'

Tue Apr 30, 2019 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.8' SD = 15.9'		SD = 14.8'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	217°38.9'	180°40.0'	N 14°36.9'	231°59.4'	15.0'	S 10°27.3'	10.0'	54.3'
1	232°41.4'	195°40.1'	N 14°37.7'	246°33.3'	15.0'	S 10°17.3'	10.1'	54.3'
2	247°43.8'	210°40.2'	N 14°38.4'	261°07.3'	15.0'	S 10°07.2'	10.1'	54.3'
3	262°46.3'	225°40.3'	N 14°39.2'	275°41.3'	15.0'	S 9°57.1'	10.2'	54.4'
4	277°48.7'	240°40.3'	N 14°40.0'	290°15.3'	15.0'	S 9°47.0'	10.2'	54.4'
5	292°51.2'	255°40.4'	N 14°40.8'	304°49.4'	15.1'	S 9°36.8'	10.2'	54.4'
6	307°53.7'	270°40.5'	N 14°41.5'	319°23.4'	15.1'	S 9°26.5'	10.3'	54.4'
7	322°56.1'	285°40.6'	N 14°42.3'	333°57.5'	15.1'	S 9°16.2'	10.3'	54.4'
8	337°58.6'	300°40.7'	N 14°43.1'	348°31.6'	15.1'	S 9°05.9'	10.4'	54.4'
9	353°01.1'	315°40.8'	N 14°43.8'	3°05.7'	15.1'	S 8°55.5'	10.4'	54.4'
10	8°03.5'	330°40.8'	N 14°44.6'	17°39.8'	15.1'	S 8°45.1'	10.5'	54.4'
11	23°06.0'	345°40.9'	N 14°45.4'	32°13.9'	15.1'	S 8°34.7'	10.5'	54.4'
12	38°08.5'	0°41.0'	N 14°46.1'	46°48.1'	15.2'	S 8°24.2'	10.5'	54.4'
13	53°10.9'	15°41.1'	N 14°46.9'	61°22.2'	15.2'	S 8°13.7'	10.6'	54.5'
14	68°13.4'	30°41.2'	N 14°47.7'	75°56.4'	15.2'	S 8°03.1'	10.6'	54.5'
15	83°15.9'	45°41.2'	N 14°48.4'	90°30.5'	15.2'	S 7°52.5'	10.6'	54.5'
16	98°18.3'	60°41.3'	N 14°49.2'	105°04.7'	15.2'	S 7°41.8'	10.7'	54.5'
17	113°20.8'	75°41.4'	N 14°50.0'	119°38.9'	15.2'	S 7°31.2'	10.7'	54.5'
18	128°23.2'	90°41.5'	N 14°50.7'	134°13.1'	15.2'	S 7°20.5'	10.8'	54.5'
19	143°25.7'	105°41.6'	N 14°51.5'	148°47.3'	15.2'	S 7°09.7'	10.8'	54.5'
20	158°28.2'	120°41.6'	N 14°52.3'	163°21.5'	15.2'	S 6°58.9'	10.8'	54.5'
21	173°30.6'	135°41.7'	N 14°53.0'	177°55.8'	15.2'	S 6°48.1'	10.9'	54.6'
22	188°33.1'	150°41.8'	N 14°53.8'	192°30.0'	15.2'	S 6°37.2'	10.9'	54.6'
23	203°35.6'	165°41.9'	N 14°54.5'	207°04.2'	15.2'	S 6°26.4'	10.9'	54.6'