

Thu Jun 1, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.3' SD = 15.8'		SD = 15.5'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	249°40.1'	180°33.2'	N 22°02.8'	93°17.7'	11.2'	N 10°29.3'	9.4'	57.4'
1	264°42.6'	195°33.1'	N 22°03.2'	107°47.9'	11.2'	N 10°20.0'	9.4'	57.3'
2	279°45.0'	210°33.0'	N 22°03.5'	122°18.1'	11.3'	N 10°10.6'	9.4'	57.3'
3	294°47.5'	225°32.9'	N 22°03.8'	136°48.4'	11.4'	N 10°01.1'	9.5'	57.2'
4	309°49.9'	240°32.8'	N 22°04.2'	151°18.8'	11.5'	N 9°51.7'	9.5'	57.2'
5	324°52.4'	255°32.7'	N 22°04.5'	165°49.2'	11.5'	N 9°42.1'	9.5'	57.2'
6	339°54.9'	270°32.6'	N 22°04.8'	180°19.7'	11.6'	N 9°32.6'	9.6'	57.1'
7	354°57.3'	285°32.5'	N 22°05.2'	194°50.3'	11.7'	N 9°23.0'	9.6'	57.1'
8	9°59.8'	300°32.4'	N 22°05.5'	209°21.0'	11.7'	N 9°13.4'	9.7'	57.1'
9	25°02.3'	315°32.3'	N 22°05.8'	223°51.7'	11.8'	N 9°03.7'	9.7'	57.0'
10	40°04.7'	330°32.2'	N 22°06.2'	238°22.5'	11.9'	N 8°54.0'	9.7'	57.0'
11	55°07.2'	345°32.1'	N 22°06.5'	252°53.4'	11.9'	N 8°44.3'	9.8'	57.0'
12	70°09.7'	0°32.0'	N 22°06.8'	267°24.3'	12.0'	N 8°34.6'	9.8'	56.9'
13	85°12.1'	15°31.9'	N 22°07.2'	281°55.3'	12.1'	N 8°24.8'	9.8'	56.9'
14	100°14.6'	30°31.8'	N 22°07.5'	296°26.4'	12.1'	N 8°15.0'	9.8'	56.9'
15	115°17.1'	45°31.7'	N 22°07.8'	310°57.5'	12.2'	N 8°05.1'	9.9'	56.8'
16	130°19.5'	60°31.6'	N 22°08.2'	325°28.7'	12.3'	N 7°55.3'	9.9'	56.8'
17	145°22.0'	75°31.5'	N 22°08.5'	339°59.9'	12.3'	N 7°45.4'	9.9'	56.8'
18	160°24.4'	90°31.4'	N 22°08.8'	354°31.3'	12.4'	N 7°35.5'	9.9'	56.7'
19	175°26.9'	105°31.3'	N 22°09.1'	9°02.6'	12.4'	N 7°25.5'	10.0'	56.7'
20	190°29.4'	120°31.2'	N 22°09.5'	23°34.1'	12.5'	N 7°15.5'	10.0'	56.7'
21	205°31.8'	135°31.1'	N 22°09.8'	38°05.6'	12.6'	N 7°05.5'	10.0'	56.6'
22	220°34.3'	150°31.0'	N 22°10.1'	52°37.1'	12.6'	N 6°55.5'	10.0'	56.6'
23	235°36.8'	165°30.9'	N 22°10.5'	67°08.7'	12.7'	N 6°45.5'	10.1'	56.6'

Fri Jun 2, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.3' SD = 15.8'		SD = 15.3'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	250°39.2'	180°30.8'	N 22°10.8'	81°40.4'	12.7'	N 6°35.4'	10.1'	56.5'
1	265°41.7'	195°30.7'	N 22°11.1'	96°12.1'	12.8'	N 6°25.4'	10.1'	56.5'
2	280°44.2'	210°30.6'	N 22°11.4'	110°43.9'	12.8'	N 6°15.3'	10.1'	56.5'
3	295°46.6'	225°30.5'	N 22°11.7'	125°15.7'	12.9'	N 6°05.1'	10.1'	56.4'
4	310°49.1'	240°30.4'	N 22°12.1'	139°47.6'	12.9'	N 5°55.0'	10.1'	56.4'
5	325°51.6'	255°30.3'	N 22°12.4'	154°19.6'	13.0'	N 5°44.9'	10.2'	56.4'
6	340°54.0'	270°30.2'	N 22°12.7'	168°51.6'	13.0'	N 5°34.7'	10.2'	56.3'
7	355°56.5'	285°30.1'	N 22°13.0'	183°23.6'	13.1'	N 5°24.5'	10.2'	56.3'
8	10°58.9'	300°30.0'	N 22°13.3'	197°55.7'	13.1'	N 5°14.3'	10.2'	56.3'
9	26°01.4'	315°29.9'	N 22°13.7'	212°27.8'	13.2'	N 5°04.1'	10.2'	56.2'
10	41°03.9'	330°29.8'	N 22°14.0'	227°00.0'	13.2'	N 4°53.9'	10.2'	56.2'
11	56°06.3'	345°29.7'	N 22°14.3'	241°32.3'	13.3'	N 4°43.7'	10.2'	56.2'
12	71°08.8'	0°29.6'	N 22°14.6'	256°04.6'	13.3'	N 4°33.4'	10.3'	56.1'
13	86°11.3'	15°29.5'	N 22°14.9'	270°36.9'	13.4'	N 4°23.2'	10.3'	56.1'
14	101°13.7'	30°29.4'	N 22°15.2'	285°09.3'	13.4'	N 4°12.9'	10.3'	56.1'
15	116°16.2'	45°29.3'	N 22°15.6'	299°41.7'	13.5'	N 4°02.6'	10.3'	56.1'
16	131°18.7'	60°29.2'	N 22°15.9'	314°14.2'	13.5'	N 3°52.3'	10.3'	56.0'
17	146°21.1'	75°29.1'	N 22°16.2'	328°46.7'	13.6'	N 3°42.1'	10.3'	56.0'
18	161°23.6'	90°29.0'	N 22°16.5'	343°19.2'	13.6'	N 3°31.8'	10.3'	56.0'
19	176°26.0'	105°28.9'	N 22°16.8'	357°51.8'	13.6'	N 3°21.5'	10.3'	55.9'
20	191°28.5'	120°28.8'	N 22°17.1'	12°24.5'	13.7'	N 3°11.2'	10.3'	55.9'
21	206°31.0'	135°28.7'	N 22°17.4'	26°57.2'	13.7'	N 3°00.9'	10.3'	55.9'
22	221°33.4'	150°28.6'	N 22°17.7'	41°29.9'	13.8'	N 2°50.5'	10.3'	55.9'
23	236°35.9'	165°28.5'	N 22°18.0'	56°02.6'	13.8'	N 2°40.2'	10.3'	55.8'

Sat Jun 3, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.3' SD = 15.8'		SD = 15.1'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	251°38.4'	180°28.4'	N 22°18.3'	70°35.4'	13.8'	N 2°29.9'	10.3'	55.8'
1	266°40.8'	195°28.3'	N 22°18.7'	85°08.2'	13.9'	N 2°19.6'	10.3'	55.8'
2	281°43.3'	210°28.2'	N 22°19.0'	99°41.1'	13.9'	N 2°09.3'	10.3'	55.7'
3	296°45.8'	225°28.1'	N 22°19.3'	114°14.0'	13.9'	N 1°59.0'	10.3'	55.7'
4	311°48.2'	240°28.0'	N 22°19.6'	128°46.9'	14.0'	N 1°48.6'	10.3'	55.7'
5	326°50.7'	255°27.9'	N 22°19.9'	143°19.9'	14.0'	N 1°38.3'	10.3'	55.7'
6	341°53.2'	270°27.8'	N 22°20.2'	157°52.9'	14.0'	N 1°28.0'	10.3'	55.6'
7	356°55.6'	285°27.7'	N 22°20.5'	172°25.9'	14.1'	N 1°17.7'	10.3'	55.6'
8	11°58.1'	300°27.6'	N 22°20.8'	186°59.0'	14.1'	N 1°07.4'	10.3'	55.6'
9	27°00.5'	315°27.5'	N 22°21.1'	201°32.0'	14.1'	N 0°57.1'	10.3'	55.6'
10	42°03.0'	330°27.4'	N 22°21.4'	216°05.2'	14.1'	N 0°46.8'	10.3'	55.5'
11	57°05.5'	345°27.3'	N 22°21.7'	230°38.3'	14.2'	N 0°36.5'	10.3'	55.5'
12	72°07.9'	0°27.2'	N 22°22.0'	245°11.5'	14.2'	N 0°26.2'	10.3'	55.5'
13	87°10.4'	15°27.1'	N 22°22.3'	259°44.7'	14.2'	N 0°15.9'	10.3'	55.5'
14	102°12.9'	30°27.0'	N 22°22.6'	274°17.9'	14.2'	N 0°05.7'	10.3'	55.4'
15	117°15.3'	45°26.9'	N 22°22.9'	288°51.1'	14.3'	S 0°04.6'	10.3'	55.4'
16	132°17.8'	60°26.8'	N 22°23.2'	303°24.4'	14.3'	S 0°14.9'	10.2'	55.4'
17	147°20.3'	75°26.7'	N 22°23.5'	317°57.7'	14.3'	S 0°25.1'	10.2'	55.4'
18	162°22.7'	90°26.6'	N 22°23.8'	332°31.0'	14.3'	S 0°35.3'	10.2'	55.3'
19	177°25.2'	105°26.4'	N 22°24.1'	347°04.4'	14.4'	S 0°45.6'	10.2'	55.3'
20	192°27.7'	120°26.3'	N 22°24.4'	1°37.7'	14.4'	S 0°55.8'	10.2'	55.3'
21	207°30.1'	135°26.2'	N 22°24.7'	16°11.1'	14.4'	S 1°06.0'	10.2'	55.3'
22	222°32.6'	150°26.1'	N 22°25.0'	30°44.5'	14.4'	S 1°16.2'	10.2'	55.2'
23	237°35.0'	165°26.0'	N 22°25.2'	45°17.9'	14.4'	S 1°26.4'	10.2'	55.2'

Sun Jun 4, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.3' SD = 15.8'		SD = 15.0'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	252°37.5'	180°25.9'	N 22°25.5'	59°51.3'	14.5'	S 1°36.5'	10.1'	55.2'
1	267°40.0'	195°25.8'	N 22°25.8'	74°24.8'	14.5'	S 1°46.7'	10.1'	55.2'
2	282°42.4'	210°25.7'	N 22°26.1'	88°58.3'	14.5'	S 1°56.8'	10.1'	55.1'
3	297°44.9'	225°25.6'	N 22°26.4'	103°31.8'	14.5'	S 2°06.9'	10.1'	55.1'
4	312°47.4'	240°25.5'	N 22°26.7'	118°05.3'	14.5'	S 2°17.0'	10.1'	55.1'
5	327°49.8'	255°25.4'	N 22°27.0'	132°38.8'	14.5'	S 2°27.1'	10.1'	55.1'
6	342°52.3'	270°25.3'	N 22°27.3'	147°12.3'	14.5'	S 2°37.2'	10.1'	55.1'
7	357°54.8'	285°25.2'	N 22°27.6'	161°45.8'	14.6'	S 2°47.2'	10.0'	55.0'
8	12°57.2'	300°25.1'	N 22°27.8'	176°19.4'	14.6'	S 2°57.3'	10.0'	55.0'
9	27°59.7'	315°25.0'	N 22°28.1'	190°53.0'	14.6'	S 3°07.3'	10.0'	55.0'
10	43°02.1'	330°24.8'	N 22°28.4'	205°26.5'	14.6'	S 3°17.3'	10.0'	55.0'
11	58°04.6'	345°24.7'	N 22°28.7'	220°00.1'	14.6'	S 3°27.2'	10.0'	55.0'
12	73°07.1'	0°24.6'	N 22°29.0'	234°33.7'	14.6'	S 3°37.2'	9.9'	54.9'
13	88°09.5'	15°24.5'	N 22°29.3'	249°07.3'	14.6'	S 3°47.1'	9.9'	54.9'
14	103°12.0'	30°24.4'	N 22°29.5'	263°40.9'	14.6'	S 3°57.0'	9.9'	54.9'
15	118°14.5'	45°24.3'	N 22°29.8'	278°14.5'	14.6'	S 4°06.9'	9.9'	54.9'
16	133°16.9'	60°24.2'	N 22°30.1'	292°48.2'	14.6'	S 4°16.8'	9.8'	54.9'
17	148°19.4'	75°24.1'	N 22°30.4'	307°21.8'	14.6'	S 4°26.6'	9.8'	54.8'
18	163°21.9'	90°24.0'	N 22°30.7'	321°55.4'	14.6'	S 4°36.4'	9.8'	54.8'
19	178°24.3'	105°23.9'	N 22°30.9'	336°29.1'	14.6'	S 4°46.2'	9.8'	54.8'
20	193°26.8'	120°23.8'	N 22°31.2'	351°02.7'	14.6'	S 4°56.0'	9.7'	54.8'
21	208°29.3'	135°23.7'	N 22°31.5'	5°36.3'	14.6'	S 5°05.7'	9.7'	54.8'
22	223°31.7'	150°23.5'	N 22°31.8'	20°10.0'	14.6'	S 5°15.4'	9.7'	54.7'
23	238°34.2'	165°23.4'	N 22°32.1'	34°43.6'	14.6'	S 5°25.1'	9.7'	54.7'

Mon Jun 5, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.3' SD = 15.8'		SD = 14.9'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	253°36.6'	180°23.3'	N 22°32.3'	49°17.3'	14.6'	S 5°34.8'	9.6'	54.7'
1	268°39.1'	195°23.2'	N 22°32.6'	63°50.9'	14.6'	S 5°44.4'	9.6'	54.7'
2	283°41.6'	210°23.1'	N 22°32.9'	78°24.6'	14.6'	S 5°54.0'	9.6'	54.7'
3	298°44.0'	225°23.0'	N 22°33.1'	92°58.2'	14.6'	S 6°03.5'	9.5'	54.7'
4	313°46.5'	240°22.9'	N 22°33.4'	107°31.9'	14.6'	S 6°13.1'	9.5'	54.6'
5	328°49.0'	255°22.8'	N 22°33.7'	122°05.5'	14.6'	S 6°22.6'	9.5'	54.6'
6	343°51.4'	270°22.7'	N 22°34.0'	136°39.2'	14.6'	S 6°32.1'	9.4'	54.6'
7	358°53.9'	285°22.6'	N 22°34.2'	151°12.8'	14.6'	S 6°41.5'	9.4'	54.6'
8	13°56.4'	300°22.4'	N 22°34.5'	165°46.4'	14.6'	S 6°50.9'	9.4'	54.6'
9	28°58.8'	315°22.3'	N 22°34.8'	180°20.1'	14.6'	S 7°00.3'	9.3'	54.6'
10	44°01.3'	330°22.2'	N 22°35.0'	194°53.7'	14.6'	S 7°09.6'	9.3'	54.6'
11	59°03.8'	345°22.1'	N 22°35.3'	209°27.3'	14.6'	S 7°19.0'	9.3'	54.5'
12	74°06.2'	0°22.0'	N 22°35.6'	224°00.9'	14.6'	S 7°28.2'	9.2'	54.5'
13	89°08.7'	15°21.9'	N 22°35.8'	238°34.5'	14.6'	S 7°37.5'	9.2'	54.5'
14	104°11.1'	30°21.8'	N 22°36.1'	253°08.1'	14.6'	S 7°46.7'	9.2'	54.5'
15	119°13.6'	45°21.7'	N 22°36.4'	267°41.7'	14.6'	S 7°55.8'	9.1'	54.5'
16	134°16.1'	60°21.6'	N 22°36.6'	282°15.3'	14.6'	S 8°05.0'	9.1'	54.5'
17	149°18.5'	75°21.4'	N 22°36.9'	296°48.9'	14.6'	S 8°14.1'	9.1'	54.5'
18	164°21.0'	90°21.3'	N 22°37.2'	311°22.4'	14.6'	S 8°23.1'	9.0'	54.4'
19	179°23.5'	105°21.2'	N 22°37.4'	325°56.0'	14.5'	S 8°32.1'	9.0'	54.4'
20	194°25.9'	120°21.1'	N 22°37.7'	340°29.5'	14.5'	S 8°41.1'	8.9'	54.4'
21	209°28.4'	135°21.0'	N 22°37.9'	355°03.1'	14.5'	S 8°50.1'	8.9'	54.4'
22	224°30.9'	150°20.9'	N 22°38.2'	9°36.6'	14.5'	S 8°59.0'	8.9'	54.4'
23	239°33.3'	165°20.8'	N 22°38.5'	24°10.1'	14.5'	S 9°07.8'	8.8'	54.4'

Tue Jun 6, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.2' SD = 15.8'		SD = 14.8'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	254°35.8'	180°20.7'	N 22°38.7'	38°43.6'	14.5'	S 9°16.6'	8.8'	54.4'
1	269°38.2'	195°20.6'	N 22°39.0'	53°17.1'	14.5'	S 9°25.4'	8.7'	54.3'
2	284°40.7'	210°20.4'	N 22°39.2'	67°50.5'	14.5'	S 9°34.1'	8.7'	54.3'
3	299°43.2'	225°20.3'	N 22°39.5'	82°24.0'	14.4'	S 9°42.8'	8.6'	54.3'
4	314°45.6'	240°20.2'	N 22°39.7'	96°57.4'	14.4'	S 9°51.5'	8.6'	54.3'
5	329°48.1'	255°20.1'	N 22°40.0'	111°30.8'	14.4'	S 10°00.1'	8.6'	54.3'
6	344°50.6'	270°20.0'	N 22°40.3'	126°04.2'	14.4'	S 10°08.6'	8.5'	54.3'
7	359°53.0'	285°19.9'	N 22°40.5'	140°37.6'	14.4'	S 10°17.1'	8.5'	54.3'
8	14°55.5'	300°19.8'	N 22°40.8'	155°11.0'	14.4'	S 10°25.6'	8.4'	54.3'
9	29°58.0'	315°19.6'	N 22°41.0'	169°44.4'	14.3'	S 10°34.0'	8.4'	54.3'
10	45°00.4'	330°19.5'	N 22°41.3'	184°17.7'	14.3'	S 10°42.4'	8.3'	54.2'
11	60°02.9'	345°19.4'	N 22°41.5'	198°51.0'	14.3'	S 10°50.7'	8.3'	54.2'
12	75°05.4'	0°19.3'	N 22°41.8'	213°24.3'	14.3'	S 10°59.0'	8.2'	54.2'
13	90°07.8'	15°19.2'	N 22°42.0'	227°57.6'	14.3'	S 11°07.2'	8.2'	54.2'
14	105°10.3'	30°19.1'	N 22°42.3'	242°30.9'	14.2'	S 11°15.4'	8.1'	54.2'
15	120°12.7'	45°19.0'	N 22°42.5'	257°04.1'	14.2'	S 11°23.6'	8.1'	54.2'
16	135°15.2'	60°18.8'	N 22°42.8'	271°37.4'	14.2'	S 11°31.6'	8.0'	54.2'
17	150°17.7'	75°18.7'	N 22°43.0'	286°10.6'	14.2'	S 11°39.7'	8.0'	54.2'
18	165°20.1'	90°18.6'	N 22°43.3'	300°43.7'	14.2'	S 11°47.6'	7.9'	54.2'
19	180°22.6'	105°18.5'	N 22°43.5'	315°16.9'	14.1'	S 11°55.6'	7.9'	54.2'
20	195°25.1'	120°18.4'	N 22°43.7'	329°50.1'	14.1'	S 12°03.5'	7.8'	54.2'
21	210°27.5'	135°18.3'	N 22°44.0'	344°23.2'	14.1'	S 12°11.3'	7.8'	54.1'
22	225°30.0'	150°18.2'	N 22°44.2'	358°56.3'	14.1'	S 12°19.0'	7.7'	54.1'
23	240°32.5'	165°18.0'	N 22°44.5'	13°29.4'	14.1'	S 12°26.8'	7.7'	54.1'

Wed Jun 7, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.2' SD = 15.8'		SD = 14.7'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	255°34.9'	180°17.9'	N 22°44.7'	28°02.4'	14.0'	S 12°34.4'	7.6'	54.1'
1	270°37.4'	195°17.8'	N 22°45.0'	42°35.5'	14.0'	S 12°42.0'	7.6'	54.1'
2	285°39.9'	210°17.7'	N 22°45.2'	57°08.5'	14.0'	S 12°49.6'	7.5'	54.1'
3	300°42.3'	225°17.6'	N 22°45.4'	71°41.5'	14.0'	S 12°57.1'	7.4'	54.1'
4	315°44.8'	240°17.5'	N 22°45.7'	86°14.4'	13.9'	S 13°04.5'	7.4'	54.1'
5	330°47.2'	255°17.3'	N 22°45.9'	100°47.4'	13.9'	S 13°11.9'	7.3'	54.1'
6	345°49.7'	270°17.2'	N 22°46.2'	115°20.3'	13.9'	S 13°19.2'	7.3'	54.1'
7	0°52.2'	285°17.1'	N 22°46.4'	129°53.2'	13.9'	S 13°26.5'	7.2'	54.1'
8	15°54.6'	300°17.0'	N 22°46.6'	144°26.1'	13.8'	S 13°33.7'	7.2'	54.1'
9	30°57.1'	315°16.9'	N 22°46.9'	158°58.9'	13.8'	S 13°40.9'	7.1'	54.1'
10	45°59.6'	330°16.8'	N 22°47.1'	173°31.7'	13.8'	S 13°47.9'	7.0'	54.1'
11	61°02.0'	345°16.6'	N 22°47.3'	188°04.5'	13.8'	S 13°55.0'	7.0'	54.0'
12	76°04.5'	0°16.5'	N 22°47.6'	202°37.3'	13.7'	S 14°01.9'	6.9'	54.0'
13	91°07.0'	15°16.4'	N 22°47.8'	217°10.0'	13.7'	S 14°08.9'	6.8'	54.0'
14	106°09.4'	30°16.3'	N 22°48.0'	231°42.8'	13.7'	S 14°15.7'	6.8'	54.0'
15	121°11.9'	45°16.2'	N 22°48.3'	246°15.4'	13.7'	S 14°22.5'	6.7'	54.0'
16	136°14.3'	60°16.1'	N 22°48.5'	260°48.1'	13.6'	S 14°29.2'	6.7'	54.0'
17	151°16.8'	75°15.9'	N 22°48.7'	275°20.8'	13.6'	S 14°35.9'	6.6'	54.0'
18	166°19.3'	90°15.8'	N 22°49.0'	289°53.4'	13.6'	S 14°42.5'	6.5'	54.0'
19	181°21.7'	105°15.7'	N 22°49.2'	304°26.0'	13.6'	S 14°49.0'	6.5'	54.0'
20	196°24.2'	120°15.6'	N 22°49.4'	318°58.5'	13.5'	S 14°55.5'	6.4'	54.0'
21	211°26.7'	135°15.5'	N 22°49.6'	333°31.1'	13.5'	S 15°01.9'	6.3'	54.0'
22	226°29.1'	150°15.3'	N 22°49.9'	348°03.6'	13.5'	S 15°08.2'	6.3'	54.0'
23	241°31.6'	165°15.2'	N 22°50.1'	2°36.1'	13.5'	S 15°14.5'	6.2'	54.0'

Thu Jun 8, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.2' SD = 15.8'		SD = 14.7'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	256°34.1'	180°15.1'	N 22°50.3'	17°08.5'	13.4'	S 15°20.7'	6.1'	54.0'
1	271°36.5'	195°15.0'	N 22°50.5'	31°40.9'	13.4'	S 15°26.8'	6.1'	54.0'
2	286°39.0'	210°14.9'	N 22°50.8'	46°13.3'	13.4'	S 15°32.9'	6.0'	54.0'
3	301°41.5'	225°14.8'	N 22°51.0'	60°45.7'	13.3'	S 15°38.9'	5.9'	54.0'
4	316°43.9'	240°14.6'	N 22°51.2'	75°18.1'	13.3'	S 15°44.8'	5.9'	54.0'
5	331°46.4'	255°14.5'	N 22°51.4'	89°50.4'	13.3'	S 15°50.7'	5.8'	54.0'
6	346°48.8'	270°14.4'	N 22°51.7'	104°22.7'	13.3'	S 15°56.5'	5.7'	54.0'
7	1°51.3'	285°14.3'	N 22°51.9'	118°55.0'	13.2'	S 16°02.2'	5.7'	54.0'
8	16°53.8'	300°14.2'	N 22°52.1'	133°27.2'	13.2'	S 16°07.9'	5.6'	54.0'
9	31°56.2'	315°14.0'	N 22°52.3'	147°59.4'	13.2'	S 16°13.4'	5.5'	54.0'
10	46°58.7'	330°13.9'	N 22°52.5'	162°31.6'	13.2'	S 16°18.9'	5.4'	54.0'
11	62°01.2'	345°13.8'	N 22°52.7'	177°03.7'	13.1'	S 16°24.4'	5.4'	54.0'
12	77°03.6'	0°13.7'	N 22°53.0'	191°35.9'	13.1'	S 16°29.8'	5.3'	54.0'
13	92°06.1'	15°13.6'	N 22°53.2'	206°08.0'	13.1'	S 16°35.1'	5.2'	54.0'
14	107°08.6'	30°13.4'	N 22°53.4'	220°40.1'	13.1'	S 16°40.3'	5.1'	54.0'
15	122°11.0'	45°13.3'	N 22°53.6'	235°12.1'	13.0'	S 16°45.4'	5.1'	54.0'
16	137°13.5'	60°13.2'	N 22°53.8'	249°44.1'	13.0'	S 16°50.5'	5.0'	54.0'
17	152°16.0'	75°13.1'	N 22°54.0'	264°16.1'	13.0'	S 16°55.5'	4.9'	54.0'
18	167°18.4'	90°13.0'	N 22°54.3'	278°48.1'	12.9'	S 17°00.4'	4.8'	54.0'
19	182°20.9'	105°12.8'	N 22°54.5'	293°20.1'	12.9'	S 17°05.3'	4.8'	54.0'
20	197°23.3'	120°12.7'	N 22°54.7'	307°52.0'	12.9'	S 17°10.0'	4.7'	54.0'
21	212°25.8'	135°12.6'	N 22°54.9'	322°23.9'	12.9'	S 17°14.7'	4.6'	54.0'
22	227°28.3'	150°12.5'	N 22°55.1'	336°55.7'	12.8'	S 17°19.4'	4.5'	54.0'
23	242°30.7'	165°12.4'	N 22°55.3'	351°27.6'	12.8'	S 17°23.9'	4.5'	54.0'

Fri Jun 9, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.2' SD = 15.8'		SD = 14.7'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	257°33.2'	180°12.2'	N 22°55.5'	5°59.4'	12.8'	S 17°28.4'	4.4'	54.0'
1	272°35.7'	195°12.1'	N 22°55.7'	20°31.2'	12.8'	S 17°32.8'	4.3'	54.0'
2	287°38.1'	210°12.0'	N 22°55.9'	35°02.9'	12.7'	S 17°37.1'	4.2'	54.0'
3	302°40.6'	225°11.9'	N 22°56.1'	49°34.7'	12.7'	S 17°41.3'	4.2'	54.0'
4	317°43.1'	240°11.8'	N 22°56.3'	64°06.4'	12.7'	S 17°45.5'	4.1'	54.0'
5	332°45.5'	255°11.6'	N 22°56.5'	78°38.1'	12.7'	S 17°49.5'	4.0'	54.0'
6	347°48.0'	270°11.5'	N 22°56.8'	93°09.7'	12.6'	S 17°53.5'	3.9'	54.0'
7	2°50.5'	285°11.4'	N 22°57.0'	107°41.4'	12.6'	S 17°57.4'	3.8'	54.0'
8	17°52.9'	300°11.3'	N 22°57.2'	122°13.0'	12.6'	S 18°01.3'	3.8'	54.0'
9	32°55.4'	315°11.1'	N 22°57.4'	136°44.6'	12.6'	S 18°05.0'	3.7'	54.0'
10	47°57.8'	330°11.0'	N 22°57.6'	151°16.1'	12.5'	S 18°08.7'	3.6'	54.0'
11	63°00.3'	345°10.9'	N 22°57.8'	165°47.7'	12.5'	S 18°12.3'	3.5'	54.0'
12	78°02.8'	0°10.8'	N 22°58.0'	180°19.2'	12.5'	S 18°15.8'	3.4'	54.0'
13	93°05.2'	15°10.7'	N 22°58.2'	194°50.7'	12.5'	S 18°19.2'	3.3'	54.0'
14	108°07.7'	30°10.5'	N 22°58.4'	209°22.2'	12.5'	S 18°22.6'	3.3'	54.0'
15	123°10.2'	45°10.4'	N 22°58.6'	223°53.6'	12.4'	S 18°25.8'	3.2'	54.0'
16	138°12.6'	60°10.3'	N 22°58.8'	238°25.1'	12.4'	S 18°29.0'	3.1'	54.0'
17	153°15.1'	75°10.2'	N 22°59.0'	252°56.5'	12.4'	S 18°32.1'	3.0'	54.0'
18	168°17.6'	90°10.0'	N 22°59.1'	267°27.9'	12.4'	S 18°35.1'	2.9'	54.0'
19	183°20.0'	105°09.9'	N 22°59.3'	281°59.2'	12.3'	S 18°38.0'	2.8'	54.0'
20	198°22.5'	120°09.8'	N 22°59.5'	296°30.6'	12.3'	S 18°40.9'	2.8'	54.0'
21	213°24.9'	135°09.7'	N 22°59.7'	311°01.9'	12.3'	S 18°43.6'	2.7'	54.0'
22	228°27.4'	150°09.5'	N 22°59.9'	325°33.2'	12.3'	S 18°46.3'	2.6'	54.0'
23	243°29.9'	165°09.4'	N 23°00.1'	340°04.5'	12.3'	S 18°48.9'	2.5'	54.0'

Sat Jun 10, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.2' SD = 15.8'		SD = 14.7'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	258°32.3'	180°09.3'	N 23°00.3'	354°35.7'	12.2'	S 18°51.4'	2.4'	54.0'
1	273°34.8'	195°09.2'	N 23°00.5'	9°07.0'	12.2'	S 18°53.8'	2.3'	54.0'
2	288°37.3'	210°09.1'	N 23°00.7'	23°38.2'	12.2'	S 18°56.1'	2.2'	54.0'
3	303°39.7'	225°08.9'	N 23°00.9'	38°09.4'	12.2'	S 18°58.4'	2.2'	54.0'
4	318°42.2'	240°08.8'	N 23°01.1'	52°40.6'	12.2'	S 19°00.5'	2.1'	54.0'
5	333°44.7'	255°08.7'	N 23°01.3'	67°11.8'	12.2'	S 19°02.6'	2.0'	54.0'
6	348°47.1'	270°08.6'	N 23°01.4'	81°42.9'	12.1'	S 19°04.6'	1.9'	54.0'
7	3°49.6'	285°08.4'	N 23°01.6'	96°14.0'	12.1'	S 19°06.5'	1.8'	54.0'
8	18°52.1'	300°08.3'	N 23°01.8'	110°45.2'	12.1'	S 19°08.3'	1.7'	54.0'
9	33°54.5'	315°08.2'	N 23°02.0'	125°16.3'	12.1'	S 19°10.0'	1.6'	54.1'
10	48°57.0'	330°08.1'	N 23°02.2'	139°47.3'	12.1'	S 19°11.6'	1.5'	54.1'
11	63°59.4'	345°07.9'	N 23°02.4'	154°18.4'	12.1'	S 19°13.2'	1.5'	54.1'
12	79°01.9'	0°07.8'	N 23°02.6'	168°49.5'	12.0'	S 19°14.6'	1.4'	54.1'
13	94°04.4'	15°07.7'	N 23°02.7'	183°20.5'	12.0'	S 19°16.0'	1.3'	54.1'
14	109°06.8'	30°07.6'	N 23°02.9'	197°51.5'	12.0'	S 19°17.3'	1.2'	54.1'
15	124°09.3'	45°07.4'	N 23°03.1'	212°22.5'	12.0'	S 19°18.4'	1.1'	54.1'
16	139°11.8'	60°07.3'	N 23°03.3'	226°53.5'	12.0'	S 19°19.5'	1.0'	54.1'
17	154°14.2'	75°07.2'	N 23°03.5'	241°24.5'	12.0'	S 19°20.5'	0.9'	54.1'
18	169°16.7'	90°07.1'	N 23°03.6'	255°55.5'	12.0'	S 19°21.5'	0.8'	54.1'
19	184°19.2'	105°06.9'	N 23°03.8'	270°26.5'	11.9'	S 19°22.3'	0.7'	54.1'
20	199°21.6'	120°06.8'	N 23°04.0'	284°57.4'	11.9'	S 19°23.0'	0.6'	54.1'
21	214°24.1'	135°06.7'	N 23°04.2'	299°28.3'	11.9'	S 19°23.7'	0.6'	54.1'
22	229°26.6'	150°06.6'	N 23°04.3'	313°59.3'	11.9'	S 19°24.2'	0.5'	54.1'
23	244°29.0'	165°06.4'	N 23°04.5'	328°30.2'	11.9'	S 19°24.7'	0.4'	54.1'

## Sun Jun 11, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.2' SD = 15.8'		SD = 14.8'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	259°31.5'	180°06.3'	N 23°04.7'	343°01.1'	11.9'	S 19°25.1'	0.3'	54.2'
1	274°33.9'	195°06.2'	N 23°04.9'	357°32.0'	11.9'	S 19°25.4'	0.2'	54.2'
2	289°36.4'	210°06.1'	N 23°05.0'	12°02.9'	11.9'	S 19°25.6'	0.1'	54.2'
3	304°38.9'	225°05.9'	N 23°05.2'	26°33.7'	11.9'	S 19°25.7'	0.0'	54.2'
4	319°41.3'	240°05.8'	N 23°05.4'	41°04.6'	11.9'	S 19°25.7'	0.1'	54.2'
5	334°43.8'	255°05.7'	N 23°05.6'	55°35.5'	11.9'	S 19°25.6'	0.2'	54.2'
6	349°46.3'	270°05.5'	N 23°05.7'	70°06.3'	11.8'	S 19°25.4'	0.3'	54.2'
7	4°48.7'	285°05.4'	N 23°05.9'	84°37.2'	11.8'	S 19°25.2'	0.3'	54.2'
8	19°51.2'	300°05.3'	N 23°06.1'	99°08.0'	11.8'	S 19°24.8'	0.4'	54.2'
9	34°53.7'	315°05.2'	N 23°06.2'	113°38.8'	11.8'	S 19°24.4'	0.5'	54.2'
10	49°56.1'	330°05.0'	N 23°06.4'	128°09.7'	11.8'	S 19°23.9'	0.6'	54.2'
11	64°58.6'	345°04.9'	N 23°06.6'	142°40.5'	11.8'	S 19°23.2'	0.7'	54.2'
12	80°01.1'	0°04.8'	N 23°06.7'	157°11.3'	11.8'	S 19°22.5'	0.8'	54.3'
13	95°03.5'	15°04.7'	N 23°06.9'	171°42.1'	11.8'	S 19°21.7'	0.9'	54.3'
14	110°06.0'	30°04.5'	N 23°07.1'	186°12.9'	11.8'	S 19°20.8'	1.0'	54.3'
15	125°08.4'	45°04.4'	N 23°07.2'	200°43.7'	11.8'	S 19°19.9'	1.1'	54.3'
16	140°10.9'	60°04.3'	N 23°07.4'	215°14.5'	11.8'	S 19°18.8'	1.2'	54.3'
17	155°13.4'	75°04.2'	N 23°07.6'	229°45.3'	11.8'	S 19°17.6'	1.3'	54.3'
18	170°15.8'	90°04.0'	N 23°07.7'	244°16.1'	11.8'	S 19°16.4'	1.3'	54.3'
19	185°18.3'	105°03.9'	N 23°07.9'	258°46.9'	11.8'	S 19°15.0'	1.4'	54.3'
20	200°20.8'	120°03.8'	N 23°08.0'	273°17.7'	11.8'	S 19°13.6'	1.5'	54.3'
21	215°23.2'	135°03.6'	N 23°08.2'	287°48.5'	11.8'	S 19°12.0'	1.6'	54.4'
22	230°25.7'	150°03.5'	N 23°08.4'	302°19.3'	11.8'	S 19°10.4'	1.7'	54.4'
23	245°28.2'	165°03.4'	N 23°08.5'	316°50.0'	11.8'	S 19°08.7'	1.8'	54.4'

## Mon Jun 12, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.1' SD = 15.8'		SD = 14.9'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	260°30.6'	180°03.3'	N 23°08.7'	331°20.8'	11.8'	S 19°06.9'	1.9'	54.4'
1	275°33.1'	195°03.1'	N 23°08.8'	345°51.6'	11.8'	S 19°05.0'	2.0'	54.4'
2	290°35.5'	210°03.0'	N 23°09.0'	0°22.4'	11.8'	S 19°03.0'	2.1'	54.4'
3	305°38.0'	225°02.9'	N 23°09.1'	14°53.2'	11.8'	S 19°00.9'	2.2'	54.4'
4	320°40.5'	240°02.7'	N 23°09.3'	29°24.0'	11.8'	S 18°58.8'	2.3'	54.4'
5	335°42.9'	255°02.6'	N 23°09.5'	43°54.8'	11.8'	S 18°56.5'	2.3'	54.4'
6	350°45.4'	270°02.5'	N 23°09.6'	58°25.6'	11.8'	S 18°54.2'	2.4'	54.5'
7	5°47.9'	285°02.4'	N 23°09.8'	72°56.4'	11.8'	S 18°51.7'	2.5'	54.5'
8	20°50.3'	300°02.2'	N 23°09.9'	87°27.2'	11.8'	S 18°49.2'	2.6'	54.5'
9	35°52.8'	315°02.1'	N 23°10.1'	101°58.0'	11.8'	S 18°46.6'	2.7'	54.5'
10	50°55.3'	330°02.0'	N 23°10.2'	116°28.8'	11.8'	S 18°43.9'	2.8'	54.5'
11	65°57.7'	345°01.8'	N 23°10.4'	130°59.6'	11.8'	S 18°41.1'	2.9'	54.5'
12	81°00.2'	0°01.7'	N 23°10.5'	145°30.4'	11.8'	S 18°38.2'	3.0'	54.5'
13	96°02.7'	15°01.6'	N 23°10.7'	160°01.2'	11.8'	S 18°35.2'	3.1'	54.6'
14	111°05.1'	30°01.5'	N 23°10.8'	174°32.1'	11.8'	S 18°32.2'	3.2'	54.6'
15	126°07.6'	45°01.3'	N 23°11.0'	189°02.9'	11.8'	S 18°29.0'	3.2'	54.6'
16	141°10.0'	60°01.2'	N 23°11.1'	203°33.7'	11.8'	S 18°25.8'	3.3'	54.6'
17	156°12.5'	75°01.1'	N 23°11.3'	218°04.6'	11.8'	S 18°22.5'	3.4'	54.6'
18	171°15.0'	90°00.9'	N 23°11.4'	232°35.4'	11.9'	S 18°19.1'	3.5'	54.6'
19	186°17.4'	105°00.8'	N 23°11.5'	247°06.3'	11.9'	S 18°15.6'	3.6'	54.6'
20	201°19.9'	120°00.7'	N 23°11.7'	261°37.2'	11.9'	S 18°12.0'	3.7'	54.7'
21	216°22.4'	135°00.6'	N 23°11.8'	276°08.0'	11.9'	S 18°08.3'	3.8'	54.7'
22	231°24.8'	150°00.4'	N 23°12.0'	290°38.9'	11.9'	S 18°04.5'	3.9'	54.7'
23	246°27.3'	165°00.3'	N 23°12.1'	305°09.8'	11.9'	S 18°00.7'	3.9'	54.7'

Tue Jun 13, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.1' SD = 15.7'		SD = 15.0'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	261°29.8'	180°00.2'	N 23°12.3'	319°40.7'	11.9'	S 17°56.7'	4.0'	54.7'
1	276°32.2'	195°00.0'	N 23°12.4'	334°11.6'	11.9'	S 17°52.7'	4.1'	54.7'
2	291°34.7'	209°59.9'	N 23°12.5'	348°42.5'	11.9'	S 17°48.6'	4.2'	54.8'
3	306°37.2'	224°59.8'	N 23°12.7'	3°13.4'	11.9'	S 17°44.4'	4.3'	54.8'
4	321°39.6'	239°59.6'	N 23°12.8'	17°44.3'	11.9'	S 17°40.1'	4.4'	54.8'
5	336°42.1'	254°59.5'	N 23°12.9'	32°15.3'	11.9'	S 17°35.7'	4.5'	54.8'
6	351°44.5'	269°59.4'	N 23°13.1'	46°46.2'	12.0'	S 17°31.3'	4.5'	54.8'
7	6°47.0'	284°59.3'	N 23°13.2'	61°17.2'	12.0'	S 17°26.7'	4.6'	54.8'
8	21°49.5'	299°59.1'	N 23°13.4'	75°48.1'	12.0'	S 17°22.1'	4.7'	54.9'
9	36°51.9'	314°59.0'	N 23°13.5'	90°19.1'	12.0'	S 17°17.4'	4.8'	54.9'
10	51°54.4'	329°58.9'	N 23°13.6'	104°50.1'	12.0'	S 17°12.6'	4.9'	54.9'
11	66°56.9'	344°58.7'	N 23°13.8'	119°21.1'	12.0'	S 17°07.7'	5.0'	54.9'
12	81°59.3'	359°58.6'	N 23°13.9'	133°52.1'	12.0'	S 17°02.8'	5.0'	54.9'
13	97°01.8'	14°58.5'	N 23°14.0'	148°23.1'	12.0'	S 16°57.7'	5.1'	54.9'
14	112°04.3'	29°58.3'	N 23°14.1'	162°54.1'	12.0'	S 16°52.6'	5.2'	55.0'
15	127°06.7'	44°58.2'	N 23°14.3'	177°25.1'	12.0'	S 16°47.4'	5.3'	55.0'
16	142°09.2'	59°58.1'	N 23°14.4'	191°56.2'	12.1'	S 16°42.1'	5.4'	55.0'
17	157°11.7'	74°58.0'	N 23°14.5'	206°27.2'	12.1'	S 16°36.7'	5.5'	55.0'
18	172°14.1'	89°57.8'	N 23°14.7'	220°58.3'	12.1'	S 16°31.2'	5.5'	55.0'
19	187°16.6'	104°57.7'	N 23°14.8'	235°29.3'	12.1'	S 16°25.7'	5.6'	55.1'
20	202°19.0'	119°57.6'	N 23°14.9'	250°00.4'	12.1'	S 16°20.1'	5.7'	55.1'
21	217°21.5'	134°57.4'	N 23°15.0'	264°31.5'	12.1'	S 16°14.4'	5.8'	55.1'
22	232°24.0'	149°57.3'	N 23°15.2'	279°02.6'	12.1'	S 16°08.6'	5.9'	55.1'
23	247°26.4'	164°57.2'	N 23°15.3'	293°33.7'	12.1'	S 16°02.8'	5.9'	55.1'

Wed Jun 14, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.1' SD = 15.7'		SD = 15.1'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	262°28.9'	179°57.0'	N 23°15.4'	308°04.9'	12.1'	S 15°56.8'	6.0'	55.2'
1	277°31.4'	194°56.9'	N 23°15.5'	322°36.0'	12.1'	S 15°50.8'	6.1'	55.2'
2	292°33.8'	209°56.8'	N 23°15.7'	337°07.1'	12.2'	S 15°44.7'	6.2'	55.2'
3	307°36.3'	224°56.6'	N 23°15.8'	351°38.3'	12.2'	S 15°38.5'	6.3'	55.2'
4	322°38.8'	239°56.5'	N 23°15.9'	6°09.5'	12.2'	S 15°32.3'	6.3'	55.2'
5	337°41.2'	254°56.4'	N 23°16.0'	20°40.6'	12.2'	S 15°25.9'	6.4'	55.3'
6	352°43.7'	269°56.2'	N 23°16.1'	35°11.8'	12.2'	S 15°19.5'	6.5'	55.3'
7	7°46.2'	284°56.1'	N 23°16.3'	49°43.0'	12.2'	S 15°13.0'	6.6'	55.3'
8	22°48.6'	299°56.0'	N 23°16.4'	64°14.2'	12.2'	S 15°06.5'	6.6'	55.3'
9	37°51.1'	314°55.8'	N 23°16.5'	78°45.5'	12.2'	S 14°59.9'	6.7'	55.3'
10	52°53.5'	329°55.7'	N 23°16.6'	93°16.7'	12.2'	S 14°53.1'	6.8'	55.4'
11	67°56.0'	344°55.6'	N 23°16.7'	107°47.9'	12.2'	S 14°46.4'	6.9'	55.4'
12	82°58.5'	359°55.5'	N 23°16.8'	122°19.2'	12.3'	S 14°39.5'	6.9'	55.4'
13	98°00.9'	14°55.3'	N 23°17.0'	136°50.4'	12.3'	S 14°32.6'	7.0'	55.4'
14	113°03.4'	29°55.2'	N 23°17.1'	151°21.7'	12.3'	S 14°25.5'	7.1'	55.5'
15	128°05.9'	44°55.1'	N 23°17.2'	165°53.0'	12.3'	S 14°18.5'	7.2'	55.5'
16	143°08.3'	59°54.9'	N 23°17.3'	180°24.3'	12.3'	S 14°11.3'	7.2'	55.5'
17	158°10.8'	74°54.8'	N 23°17.4'	194°55.6'	12.3'	S 14°04.1'	7.3'	55.5'
18	173°13.3'	89°54.7'	N 23°17.5'	209°26.9'	12.3'	S 13°56.8'	7.4'	55.6'
19	188°15.7'	104°54.5'	N 23°17.6'	223°58.2'	12.3'	S 13°49.4'	7.4'	55.6'
20	203°18.2'	119°54.4'	N 23°17.7'	238°29.5'	12.3'	S 13°42.0'	7.5'	55.6'
21	218°20.6'	134°54.3'	N 23°17.9'	253°00.8'	12.3'	S 13°34.4'	7.6'	55.6'
22	233°23.1'	149°54.1'	N 23°18.0'	267°32.2'	12.3'	S 13°26.9'	7.7'	55.7'
23	248°25.6'	164°54.0'	N 23°18.1'	282°03.5'	12.4'	S 13°19.2'	7.7'	55.7'

Thu Jun 15, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.1' SD = 15.7'		SD = 15.3'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	263°28.0'	179°53.9'	N 23°18.2'	296°34.9'	12.4'	S 13°11.5'	7.8'	55.7'
1	278°30.5'	194°53.7'	N 23°18.3'	311°06.2'	12.4'	S 13°03.7'	7.9'	55.7'
2	293°33.0'	209°53.6'	N 23°18.4'	325°37.6'	12.4'	S 12°55.8'	7.9'	55.8'
3	308°35.4'	224°53.5'	N 23°18.5'	340°09.0'	12.4'	S 12°47.9'	8.0'	55.8'
4	323°37.9'	239°53.3'	N 23°18.6'	354°40.3'	12.4'	S 12°39.9'	8.1'	55.8'
5	338°40.4'	254°53.2'	N 23°18.7'	9°11.7'	12.4'	S 12°31.8'	8.1'	55.8'
6	353°42.8'	269°53.1'	N 23°18.8'	23°43.1'	12.4'	S 12°23.7'	8.2'	55.9'
7	8°45.3'	284°52.9'	N 23°18.9'	38°14.5'	12.4'	S 12°15.5'	8.3'	55.9'
8	23°47.8'	299°52.8'	N 23°19.0'	52°45.9'	12.4'	S 12°07.3'	8.3'	55.9'
9	38°50.2'	314°52.7'	N 23°19.1'	67°17.3'	12.4'	S 11°58.9'	8.4'	55.9'
10	53°52.7'	329°52.5'	N 23°19.2'	81°48.7'	12.4'	S 11°50.5'	8.5'	56.0'
11	68°55.1'	344°52.4'	N 23°19.3'	96°20.2'	12.4'	S 11°42.1'	8.5'	56.0'
12	83°57.6'	359°52.3'	N 23°19.4'	110°51.6'	12.4'	S 11°33.6'	8.6'	56.0'
13	99°00.1'	14°52.1'	N 23°19.5'	125°23.0'	12.4'	S 11°25.0'	8.6'	56.0'
14	114°02.5'	29°52.0'	N 23°19.6'	139°54.4'	12.4'	S 11°16.4'	8.7'	56.1'
15	129°05.0'	44°51.9'	N 23°19.7'	154°25.9'	12.4'	S 11°07.7'	8.8'	56.1'
16	144°07.5'	59°51.7'	N 23°19.8'	168°57.3'	12.4'	S 10°58.9'	8.8'	56.1'
17	159°09.9'	74°51.6'	N 23°19.9'	183°28.7'	12.4'	S 10°50.1'	8.9'	56.2'
18	174°12.4'	89°51.5'	N 23°20.0'	198°00.2'	12.4'	S 10°41.2'	8.9'	56.2'
19	189°14.9'	104°51.3'	N 23°20.1'	212°31.6'	12.4'	S 10°32.3'	9.0'	56.2'
20	204°17.3'	119°51.2'	N 23°20.2'	227°03.0'	12.4'	S 10°23.2'	9.1'	56.2'
21	219°19.8'	134°51.1'	N 23°20.2'	241°34.5'	12.4'	S 10°14.2'	9.1'	56.3'
22	234°22.3'	149°50.9'	N 23°20.3'	256°05.9'	12.4'	S 10°05.1'	9.2'	56.3'
23	249°24.7'	164°50.8'	N 23°20.4'	270°37.3'	12.4'	S 9°55.9'	9.2'	56.3'

Fri Jun 16, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.1' SD = 15.7'		SD = 15.5'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	264°27.2'	179°50.7'	N 23°20.5'	285°08.8'	12.4'	S 9°46.7'	9.3'	56.4'
1	279°29.6'	194°50.5'	N 23°20.6'	299°40.2'	12.4'	S 9°37.4'	9.3'	56.4'
2	294°32.1'	209°50.4'	N 23°20.7'	314°11.6'	12.4'	S 9°28.0'	9.4'	56.4'
3	309°34.6'	224°50.3'	N 23°20.8'	328°43.0'	12.4'	S 9°18.6'	9.5'	56.4'
4	324°37.0'	239°50.1'	N 23°20.9'	343°14.4'	12.4'	S 9°09.2'	9.5'	56.5'
5	339°39.5'	254°50.0'	N 23°21.0'	357°45.9'	12.4'	S 8°59.7'	9.6'	56.5'
6	354°42.0'	269°49.8'	N 23°21.0'	12°17.3'	12.4'	S 8°50.1'	9.6'	56.5'
7	9°44.4'	284°49.7'	N 23°21.1'	26°48.7'	12.4'	S 8°40.5'	9.7'	56.6'
8	24°46.9'	299°49.6'	N 23°21.2'	41°20.1'	12.4'	S 8°30.9'	9.7'	56.6'
9	39°49.4'	314°49.4'	N 23°21.3'	55°51.5'	12.4'	S 8°21.1'	9.8'	56.6'
10	54°51.8'	329°49.3'	N 23°21.4'	70°22.9'	12.4'	S 8°11.4'	9.8'	56.7'
11	69°54.3'	344°49.2'	N 23°21.5'	84°54.2'	12.4'	S 8°01.6'	9.9'	56.7'
12	84°56.7'	359°49.0'	N 23°21.5'	99°25.6'	12.4'	S 7°51.7'	9.9'	56.7'
13	99°59.2'	14°48.9'	N 23°21.6'	113°57.0'	12.4'	S 7°41.8'	10.0'	56.8'
14	115°01.7'	29°48.8'	N 23°21.7'	128°28.3'	12.3'	S 7°31.8'	10.0'	56.8'
15	130°04.1'	44°48.6'	N 23°21.8'	142°59.7'	12.3'	S 7°21.8'	10.1'	56.8'
16	145°06.6'	59°48.5'	N 23°21.9'	157°31.0'	12.3'	S 7°11.8'	10.1'	56.9'
17	160°09.1'	74°48.4'	N 23°21.9'	172°02.3'	12.3'	S 7°01.7'	10.1'	56.9'
18	175°11.5'	89°48.2'	N 23°22.0'	186°33.6'	12.3'	S 6°51.5'	10.2'	56.9'
19	190°14.0'	104°48.1'	N 23°22.1'	201°04.9'	12.3'	S 6°41.3'	10.2'	56.9'
20	205°16.5'	119°48.0'	N 23°22.2'	215°36.2'	12.3'	S 6°31.1'	10.3'	57.0'
21	220°18.9'	134°47.8'	N 23°22.2'	230°07.5'	12.3'	S 6°20.8'	10.3'	57.0'
22	235°21.4'	149°47.7'	N 23°22.3'	244°38.7'	12.2'	S 6°10.5'	10.4'	57.0'
23	250°23.9'	164°47.6'	N 23°22.4'	259°10.0'	12.2'	S 6°00.1'	10.4'	57.1'

## Sat Jun 17, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.1' SD = 15.7'		SD = 15.7'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	265°26.3'	179°47.4'	N 23°22.5'	273°41.2'	12.2'	S 5°49.7'	10.4'	57.1'
1	280°28.8'	194°47.3'	N 23°22.5'	288°12.4'	12.2'	S 5°39.3'	10.5'	57.1'
2	295°31.2'	209°47.2'	N 23°22.6'	302°43.6'	12.2'	S 5°28.8'	10.5'	57.2'
3	310°33.7'	224°47.0'	N 23°22.7'	317°14.8'	12.2'	S 5°18.3'	10.6'	57.2'
4	325°36.2'	239°46.9'	N 23°22.7'	331°45.9'	12.1'	S 5°07.7'	10.6'	57.2'
5	340°38.6'	254°46.7'	N 23°22.8'	346°17.0'	12.1'	S 4°57.1'	10.6'	57.3'
6	355°41.1'	269°46.6'	N 23°22.9'	0°48.2'	12.1'	S 4°46.5'	10.7'	57.3'
7	10°43.6'	284°46.5'	N 23°22.9'	15°19.2'	12.1'	S 4°35.8'	10.7'	57.3'
8	25°46.0'	299°46.3'	N 23°23.0'	29°50.3'	12.0'	S 4°25.1'	10.7'	57.4'
9	40°48.5'	314°46.2'	N 23°23.1'	44°21.4'	12.0'	S 4°14.4'	10.8'	57.4'
10	55°51.0'	329°46.1'	N 23°23.1'	58°52.4'	12.0'	S 4°03.6'	10.8'	57.5'
11	70°53.4'	344°45.9'	N 23°23.2'	73°23.4'	12.0'	S 3°52.8'	10.8'	57.5'
12	85°55.9'	359°45.8'	N 23°23.3'	87°54.4'	12.0'	S 3°41.9'	10.9'	57.5'
13	100°58.4'	14°45.7'	N 23°23.3'	102°25.3'	11.9'	S 3°31.0'	10.9'	57.6'
14	116°00.8'	29°45.5'	N 23°23.4'	116°56.3'	11.9'	S 3°20.1'	10.9'	57.6'
15	131°03.3'	44°45.4'	N 23°23.5'	131°27.2'	11.9'	S 3°09.2'	11.0'	57.6'
16	146°05.7'	59°45.3'	N 23°23.5'	145°58.0'	11.8'	S 2°58.2'	11.0'	57.7'
17	161°08.2'	74°45.1'	N 23°23.6'	160°28.9'	11.8'	S 2°47.2'	11.0'	57.7'
18	176°10.7'	89°45.0'	N 23°23.6'	174°59.7'	11.8'	S 2°36.2'	11.0'	57.7'
19	191°13.1'	104°44.8'	N 23°23.7'	189°30.5'	11.8'	S 2°25.2'	11.1'	57.8'
20	206°15.6'	119°44.7'	N 23°23.8'	204°01.2'	11.7'	S 2°14.1'	11.1'	57.8'
21	221°18.1'	134°44.6'	N 23°23.8'	218°32.0'	11.7'	S 2°03.0'	11.1'	57.8'
22	236°20.5'	149°44.4'	N 23°23.9'	233°02.7'	11.7'	S 1°51.9'	11.1'	57.9'
23	251°23.0'	164°44.3'	N 23°23.9'	247°33.3'	11.6'	S 1°40.7'	11.2'	57.9'

## Sun Jun 18, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.0' SD = 15.7'		SD = 15.9'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	266°25.5'	179°44.2'	N 23°24.0'	262°03.9'	11.6'	S 1°29.6'	11.2'	57.9'
1	281°27.9'	194°44.0'	N 23°24.0'	276°34.5'	11.6'	S 1°18.4'	11.2'	58.0'
2	296°30.4'	209°43.9'	N 23°24.1'	291°05.1'	11.5'	S 1°07.2'	11.2'	58.0'
3	311°32.8'	224°43.8'	N 23°24.1'	305°35.6'	11.5'	S 0°55.9'	11.3'	58.1'
4	326°35.3'	239°43.6'	N 23°24.2'	320°06.1'	11.4'	S 0°44.7'	11.3'	58.1'
5	341°37.8'	254°43.5'	N 23°24.2'	334°36.6'	11.4'	S 0°33.4'	11.3'	58.1'
6	356°40.2'	269°43.3'	N 23°24.3'	349°07.0'	11.4'	S 0°22.1'	11.3'	58.2'
7	11°42.7'	284°43.2'	N 23°24.3'	3°37.3'	11.3'	S 0°10.8'	11.3'	58.2'
8	26°45.2'	299°43.1'	N 23°24.4'	18°07.7'	11.3'	N 0°00.5'	11.3'	58.2'
9	41°47.6'	314°42.9'	N 23°24.4'	32°37.9'	11.2'	N 0°11.8'	11.3'	58.3'
10	56°50.1'	329°42.8'	N 23°24.5'	47°08.2'	11.2'	N 0°23.2'	11.4'	58.3'
11	71°52.6'	344°42.7'	N 23°24.5'	61°38.4'	11.2'	N 0°34.5'	11.4'	58.3'
12	86°55.0'	359°42.5'	N 23°24.6'	76°08.6'	11.1'	N 0°45.9'	11.4'	58.4'
13	101°57.5'	14°42.4'	N 23°24.6'	90°38.7'	11.1'	N 0°57.3'	11.4'	58.4'
14	116°60.0'	29°42.3'	N 23°24.7'	105°08.7'	11.0'	N 1°08.7'	11.4'	58.5'
15	132°02.4'	44°42.1'	N 23°24.7'	119°38.8'	11.0'	N 1°20.1'	11.4'	58.5'
16	147°04.9'	59°42.0'	N 23°24.8'	134°08.8'	10.9'	N 1°31.5'	11.4'	58.5'
17	162°07.3'	74°41.9'	N 23°24.8'	148°38.7'	10.9'	N 1°42.9'	11.4'	58.6'
18	177°09.8'	89°41.7'	N 23°24.8'	163°08.6'	10.8'	N 1°54.3'	11.4'	58.6'
19	192°12.3'	104°41.6'	N 23°24.9'	177°38.4'	10.8'	N 2°05.7'	11.4'	58.6'
20	207°14.7'	119°41.4'	N 23°24.9'	192°08.2'	10.7'	N 2°17.1'	11.4'	58.7'
21	222°17.2'	134°41.3'	N 23°25.0'	206°37.9'	10.7'	N 2°28.6'	11.4'	58.7'
22	237°19.7'	149°41.2'	N 23°25.0'	221°07.6'	10.6'	N 2°40.0'	11.4'	58.7'
23	252°22.1'	164°41.0'	N 23°25.0'	235°37.2'	10.6'	N 2°51.4'	11.4'	58.8'

Mon Jun 19, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.0' SD = 15.7'		SD = 16.2'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	267°24.6'	179°40.9'	N 23°25.1'	250°06.8'	10.5'	N 3°02.9'	11.4'	58.8'
1	282°27.1'	194°40.8'	N 23°25.1'	264°36.4'	10.5'	N 3°14.3'	11.4'	58.8'
2	297°29.5'	209°40.6'	N 23°25.2'	279°05.8'	10.4'	N 3°25.7'	11.4'	58.9'
3	312°32.0'	224°40.5'	N 23°25.2'	293°35.2'	10.4'	N 3°37.1'	11.4'	58.9'
4	327°34.4'	239°40.3'	N 23°25.2'	308°04.6'	10.3'	N 3°48.5'	11.4'	59.0'
5	342°36.9'	254°40.2'	N 23°25.3'	322°33.9'	10.2'	N 3°60.0'	11.4'	59.0'
6	357°39.4'	269°40.1'	N 23°25.3'	337°03.2'	10.2'	N 4°11.3'	11.4'	59.0'
7	12°41.8'	284°39.9'	N 23°25.3'	351°32.3'	10.1'	N 4°22.7'	11.4'	59.1'
8	27°44.3'	299°39.8'	N 23°25.4'	6°01.5'	10.1'	N 4°34.1'	11.4'	59.1'
9	42°46.8'	314°39.7'	N 23°25.4'	20°30.5'	10.0'	N 4°45.5'	11.4'	59.1'
10	57°49.2'	329°39.5'	N 23°25.4'	34°59.5'	9.9'	N 4°56.8'	11.3'	59.2'
11	72°51.7'	344°39.4'	N 23°25.5'	49°28.5'	9.9'	N 5°08.2'	11.3'	59.2'
12	87°54.2'	359°39.3'	N 23°25.5'	63°57.4'	9.8'	N 5°19.5'	11.3'	59.2'
13	102°56.6'	14°39.1'	N 23°25.5'	78°26.2'	9.8'	N 5°30.8'	11.3'	59.3'
14	117°59.1'	29°39.0'	N 23°25.5'	92°55.0'	9.7'	N 5°42.1'	11.3'	59.3'
15	133°01.6'	44°38.8'	N 23°25.6'	107°23.7'	9.6'	N 5°53.4'	11.3'	59.3'
16	148°04.0'	59°38.7'	N 23°25.6'	121°52.3'	9.6'	N 6°04.7'	11.2'	59.4'
17	163°06.5'	74°38.6'	N 23°25.6'	136°20.9'	9.5'	N 6°15.9'	11.2'	59.4'
18	178°08.9'	89°38.4'	N 23°25.6'	150°49.4'	9.4'	N 6°27.1'	11.2'	59.5'
19	193°11.4'	104°38.3'	N 23°25.7'	165°17.8'	9.4'	N 6°38.3'	11.2'	59.5'
20	208°13.9'	119°38.2'	N 23°25.7'	179°46.2'	9.3'	N 6°49.5'	11.1'	59.5'
21	223°16.3'	134°38.0'	N 23°25.7'	194°14.5'	9.2'	N 7°00.6'	11.1'	59.6'
22	238°18.8'	149°37.9'	N 23°25.7'	208°42.7'	9.2'	N 7°11.7'	11.1'	59.6'
23	253°21.3'	164°37.7'	N 23°25.8'	223°10.8'	9.1'	N 7°22.8'	11.1'	59.6'

Tue Jun 20, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.0' SD = 15.7'		SD = 16.4'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	268°23.7'	179°37.6'	N 23°25.8'	237°38.9'	9.0'	N 7°33.8'	11.0'	59.7'
1	283°26.2'	194°37.5'	N 23°25.8'	252°07.0'	8.9'	N 7°44.9'	11.0'	59.7'
2	298°28.7'	209°37.3'	N 23°25.8'	266°34.9'	8.9'	N 7°55.9'	11.0'	59.7'
3	313°31.1'	224°37.2'	N 23°25.8'	281°02.8'	8.8'	N 8°06.8'	10.9'	59.8'
4	328°33.6'	239°37.1'	N 23°25.9'	295°30.6'	8.7'	N 8°17.7'	10.9'	59.8'
5	343°36.1'	254°36.9'	N 23°25.9'	309°58.3'	8.7'	N 8°28.6'	10.8'	59.8'
6	358°38.5'	269°36.8'	N 23°25.9'	324°26.0'	8.6'	N 8°39.4'	10.8'	59.9'
7	13°41.0'	284°36.7'	N 23°25.9'	338°53.6'	8.5'	N 8°50.2'	10.8'	59.9'
8	28°43.4'	299°36.5'	N 23°25.9'	353°21.1'	8.4'	N 9°01.0'	10.7'	59.9'
9	43°45.9'	314°36.4'	N 23°25.9'	7°48.5'	8.4'	N 9°11.7'	10.7'	60.0'
10	58°48.4'	329°36.2'	N 23°25.9'	22°15.9'	8.3'	N 9°22.4'	10.6'	60.0'
11	73°50.8'	344°36.1'	N 23°26.0'	36°43.2'	8.2'	N 9°33.0'	10.6'	60.0'
12	88°53.3'	359°36.0'	N 23°26.0'	51°10.4'	8.1'	N 9°43.6'	10.5'	60.0'
13	103°55.8'	14°35.8'	N 23°26.0'	65°37.5'	8.1'	N 9°54.1'	10.5'	60.1'
14	118°58.2'	29°35.7'	N 23°26.0'	80°04.6'	8.0'	N 10°04.6'	10.4'	60.1'
15	134°00.7'	44°35.6'	N 23°26.0'	94°31.5'	7.9'	N 10°15.1'	10.4'	60.1'
16	149°03.2'	59°35.4'	N 23°26.0'	108°58.5'	7.8'	N 10°25.4'	10.3'	60.2'
17	164°05.6'	74°35.3'	N 23°26.0'	123°25.3'	7.7'	N 10°35.8'	10.3'	60.2'
18	179°08.1'	89°35.1'	N 23°26.0'	137°52.0'	7.7'	N 10°46.0'	10.2'	60.2'
19	194°10.5'	104°35.0'	N 23°26.0'	152°18.7'	7.6'	N 10°56.2'	10.2'	60.3'
20	209°13.0'	119°34.9'	N 23°26.0'	166°45.3'	7.5'	N 11°06.4'	10.1'	60.3'
21	224°15.5'	134°34.7'	N 23°26.0'	181°11.8'	7.4'	N 11°16.5'	10.0'	60.3'
22	239°17.9'	149°34.6'	N 23°26.1'	195°38.2'	7.4'	N 11°26.5'	10.0'	60.3'
23	254°20.4'	164°34.5'	N 23°26.1'	210°04.6'	7.3'	N 11°36.5'	9.9'	60.4'

Wed Jun 21, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.0' SD = 15.7'		SD = 16.6'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	269°22.9'	179°34.3'	N 23°26.1'	224°30.9'	7.2'	N 11°46.4'	9.8'	60.4'
1	284°25.3'	194°34.2'	N 23°26.1'	238°57.1'	7.1'	N 11°56.2'	9.8'	60.4'
2	299°27.8'	209°34.1'	N 23°26.1'	253°23.2'	7.0'	N 12°06.0'	9.7'	60.5'
3	314°30.3'	224°33.9'	N 23°26.1'	267°49.2'	7.0'	N 12°15.7'	9.6'	60.5'
4	329°32.7'	239°33.8'	N 23°26.1'	282°15.2'	6.9'	N 12°25.3'	9.6'	60.5'
5	344°35.2'	254°33.6'	N 23°26.1'	296°41.1'	6.8'	N 12°34.9'	9.5'	60.5'
6	359°37.7'	269°33.5'	N 23°26.1'	311°06.9'	6.7'	N 12°44.4'	9.4'	60.6'
7	14°40.1'	284°33.4'	N 23°26.1'	325°32.6'	6.6'	N 12°53.8'	9.3'	60.6'
8	29°42.6'	299°33.2'	N 23°26.1'	339°58.2'	6.6'	N 13°03.1'	9.3'	60.6'
9	44°45.0'	314°33.1'	N 23°26.1'	354°23.8'	6.5'	N 13°12.4'	9.2'	60.6'
10	59°47.5'	329°33.0'	N 23°26.1'	8°49.3'	6.4'	N 13°21.5'	9.1'	60.7'
11	74°50.0'	344°32.8'	N 23°26.1'	23°14.7'	6.3'	N 13°30.6'	9.0'	60.7'
12	89°52.4'	359°32.7'	N 23°26.0'	37°40.0'	6.3'	N 13°39.6'	8.9'	60.7'
13	104°54.9'	14°32.5'	N 23°26.0'	52°05.3'	6.2'	N 13°48.6'	8.8'	60.7'
14	119°57.4'	29°32.4'	N 23°26.0'	66°30.5'	6.1'	N 13°57.4'	8.8'	60.7'
15	134°59.8'	44°32.3'	N 23°26.0'	80°55.5'	6.0'	N 14°06.1'	8.7'	60.8'
16	150°02.3'	59°32.1'	N 23°26.0'	95°20.6'	5.9'	N 14°14.8'	8.6'	60.8'
17	165°04.8'	74°32.0'	N 23°26.0'	109°45.5'	5.9'	N 14°23.4'	8.5'	60.8'
18	180°07.2'	89°31.9'	N 23°26.0'	124°10.4'	5.8'	N 14°31.9'	8.4'	60.8'
19	195°09.7'	104°31.7'	N 23°26.0'	138°35.2'	5.7'	N 14°40.2'	8.3'	60.9'
20	210°12.2'	119°31.6'	N 23°26.0'	152°59.9'	5.6'	N 14°48.5'	8.2'	60.9'
21	225°14.6'	134°31.5'	N 23°26.0'	167°24.5'	5.6'	N 14°56.7'	8.1'	60.9'
22	240°17.1'	149°31.3'	N 23°26.0'	181°49.1'	5.5'	N 15°04.8'	8.0'	60.9'
23	255°19.5'	164°31.2'	N 23°25.9'	196°13.6'	5.4'	N 15°12.8'	7.9'	60.9'

Thu Jun 22, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.0' SD = 15.7'		SD = 16.7'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	270°22.0'	179°31.0'	N 23°25.9'	210°38.0'	5.3'	N 15°20.7'	7.8'	60.9'
1	285°24.5'	194°30.9'	N 23°25.9'	225°02.3'	5.3'	N 15°28.5'	7.7'	61.0'
2	300°26.9'	209°30.8'	N 23°25.9'	239°26.6'	5.2'	N 15°36.2'	7.6'	61.0'
3	315°29.4'	224°30.6'	N 23°25.9'	253°50.8'	5.1'	N 15°43.8'	7.5'	61.0'
4	330°31.9'	239°30.5'	N 23°25.9'	268°14.9'	5.1'	N 15°51.3'	7.4'	61.0'
5	345°34.3'	254°30.4'	N 23°25.8'	282°39.0'	5.0'	N 15°58.6'	7.3'	61.0'
6	0°36.8'	269°30.2'	N 23°25.8'	297°03.0'	4.9'	N 16°05.9'	7.2'	61.0'
7	15°39.3'	284°30.1'	N 23°25.8'	311°26.9'	4.9'	N 16°13.1'	7.0'	61.1'
8	30°41.7'	299°30.0'	N 23°25.8'	325°50.7'	4.8'	N 16°20.1'	6.9'	61.1'
9	45°44.2'	314°29.8'	N 23°25.8'	340°14.5'	4.7'	N 16°27.0'	6.8'	61.1'
10	60°46.7'	329°29.7'	N 23°25.8'	354°38.3'	4.7'	N 16°33.8'	6.7'	61.1'
11	75°49.1'	344°29.5'	N 23°25.7'	9°01.9'	4.6'	N 16°40.5'	6.6'	61.1'
12	90°51.6'	359°29.4'	N 23°25.7'	23°25.5'	4.5'	N 16°47.1'	6.5'	61.1'
13	105°54.0'	14°29.3'	N 23°25.7'	37°49.0'	4.5'	N 16°53.6'	6.3'	61.1'
14	120°56.5'	29°29.1'	N 23°25.7'	52°12.5'	4.4'	N 16°59.9'	6.2'	61.1'
15	135°59.0'	44°29.0'	N 23°25.6'	66°35.9'	4.4'	N 17°06.1'	6.1'	61.2'
16	151°01.4'	59°28.9'	N 23°25.6'	80°59.3'	4.3'	N 17°12.2'	6.0'	61.2'
17	166°03.9'	74°28.7'	N 23°25.6'	95°22.6'	4.2'	N 17°18.2'	5.9'	61.2'
18	181°06.4'	89°28.6'	N 23°25.6'	109°45.8'	4.2'	N 17°24.1'	5.7'	61.2'
19	196°08.8'	104°28.5'	N 23°25.5'	124°09.0'	4.1'	N 17°29.8'	5.6'	61.2'
20	211°11.3'	119°28.3'	N 23°25.5'	138°32.1'	4.1'	N 17°35.4'	5.5'	61.2'
21	226°13.8'	134°28.2'	N 23°25.5'	152°55.2'	4.0'	N 17°40.8'	5.3'	61.2'
22	241°16.2'	149°28.0'	N 23°25.4'	167°18.2'	4.0'	N 17°46.2'	5.2'	61.2'
23	256°18.7'	164°27.9'	N 23°25.4'	181°41.2'	3.9'	N 17°51.4'	5.1'	61.2'

Fri Jun 23, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.0' SD = 15.7'		SD = 16.7'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	271°21.2'	179°27.8'	N 23°25.4'	196°04.2'	3.9'	N 17°56.5'	4.9'	61.2'
1	286°23.6'	194°27.6'	N 23°25.4'	210°27.0'	3.8'	N 18°01.4'	4.8'	61.2'
2	301°26.1'	209°27.5'	N 23°25.3'	224°49.9'	3.8'	N 18°06.2'	4.7'	61.2'
3	316°28.5'	224°27.4'	N 23°25.3'	239°12.7'	3.8'	N 18°10.9'	4.5'	61.2'
4	331°31.0'	239°27.2'	N 23°25.3'	253°35.4'	3.7'	N 18°15.5'	4.4'	61.2'
5	346°33.5'	254°27.1'	N 23°25.2'	267°58.1'	3.7'	N 18°19.9'	4.3'	61.3'
6	1°35.9'	269°27.0'	N 23°25.2'	282°20.8'	3.6'	N 18°24.2'	4.1'	61.3'
7	16°38.4'	284°26.8'	N 23°25.1'	296°43.5'	3.6'	N 18°28.3'	4.0'	61.3'
8	31°40.9'	299°26.7'	N 23°25.1'	311°06.1'	3.6'	N 18°32.3'	3.9'	61.3'
9	46°43.3'	314°26.5'	N 23°25.1'	325°28.6'	3.5'	N 18°36.2'	3.7'	61.3'
10	61°45.8'	329°26.4'	N 23°25.0'	339°51.2'	3.5'	N 18°39.9'	3.6'	61.3'
11	76°48.3'	344°26.3'	N 23°25.0'	354°13.7'	3.5'	N 18°43.5'	3.4'	61.3'
12	91°50.7'	359°26.1'	N 23°25.0'	8°36.2'	3.5'	N 18°46.9'	3.3'	61.3'
13	106°53.2'	14°26.0'	N 23°24.9'	22°58.6'	3.4'	N 18°50.2'	3.2'	61.3'
14	121°55.6'	29°25.9'	N 23°24.9'	37°21.0'	3.4'	N 18°53.4'	3.0'	61.3'
15	136°58.1'	44°25.7'	N 23°24.8'	51°43.4'	3.4'	N 18°56.4'	2.9'	61.3'
16	152°00.6'	59°25.6'	N 23°24.8'	66°05.8'	3.4'	N 18°59.2'	2.7'	61.2'
17	167°03.0'	74°25.5'	N 23°24.7'	80°28.2'	3.3'	N 19°02.0'	2.6'	61.2'
18	182°05.5'	89°25.3'	N 23°24.7'	94°50.5'	3.3'	N 19°04.6'	2.4'	61.2'
19	197°08.0'	104°25.2'	N 23°24.7'	109°12.9'	3.3'	N 19°07.0'	2.3'	61.2'
20	212°10.4'	119°25.1'	N 23°24.6'	123°35.2'	3.3'	N 19°09.3'	2.1'	61.2'
21	227°12.9'	134°24.9'	N 23°24.6'	137°57.5'	3.3'	N 19°11.4'	2.0'	61.2'
22	242°15.4'	149°24.8'	N 23°24.5'	152°19.8'	3.3'	N 19°13.4'	1.9'	61.2'
23	257°17.8'	164°24.7'	N 23°24.5'	166°42.1'	3.3'	N 19°15.3'	1.7'	61.2'

Sat Jun 24, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.1' SD = 15.7'		SD = 16.7'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	272°20.3'	179°24.5'	N 23°24.4'	181°04.4'	3.3'	N 19°17.0'	1.6'	61.2'
1	287°22.8'	194°24.4'	N 23°24.4'	195°26.6'	3.3'	N 19°18.6'	1.4'	61.2'
2	302°25.2'	209°24.2'	N 23°24.3'	209°48.9'	3.3'	N 19°20.0'	1.3'	61.2'
3	317°27.7'	224°24.1'	N 23°24.3'	224°11.2'	3.3'	N 19°21.3'	1.1'	61.2'
4	332°30.1'	239°24.0'	N 23°24.2'	238°33.5'	3.3'	N 19°22.4'	1.0'	61.2'
5	347°32.6'	254°23.8'	N 23°24.2'	252°55.8'	3.3'	N 19°23.4'	0.8'	61.2'
6	2°35.1'	269°23.7'	N 23°24.1'	267°18.0'	3.3'	N 19°24.2'	0.7'	61.1'
7	17°37.5'	284°23.6'	N 23°24.1'	281°40.3'	3.3'	N 19°24.9'	0.5'	61.1'
8	32°40.0'	299°23.4'	N 23°24.0'	296°02.7'	3.3'	N 19°25.4'	0.4'	61.1'
9	47°42.5'	314°23.3'	N 23°24.0'	310°25.0'	3.3'	N 19°25.8'	0.2'	61.1'
10	62°44.9'	329°23.2'	N 23°23.9'	324°47.3'	3.3'	N 19°26.0'	0.1'	61.1'
11	77°47.4'	344°23.0'	N 23°23.9'	339°09.7'	3.4'	N 19°26.1'	0.1'	61.1'
12	92°49.9'	359°22.9'	N 23°23.8'	353°32.0'	3.4'	N 19°26.1'	0.2'	61.1'
13	107°52.3'	14°22.8'	N 23°23.7'	7°54.4'	3.4'	N 19°25.9'	0.3'	61.1'
14	122°54.8'	29°22.6'	N 23°23.7'	22°16.8'	3.4'	N 19°25.5'	0.5'	61.0'
15	137°57.3'	44°22.5'	N 23°23.6'	36°39.3'	3.5'	N 19°25.1'	0.6'	61.0'
16	152°59.7'	59°22.4'	N 23°23.6'	51°01.7'	3.5'	N 19°24.4'	0.8'	61.0'
17	168°02.2'	74°22.2'	N 23°23.5'	65°24.2'	3.5'	N 19°23.6'	0.9'	61.0'
18	183°04.6'	89°22.1'	N 23°23.4'	79°46.7'	3.5'	N 19°22.7'	1.1'	61.0'
19	198°07.1'	104°22.0'	N 23°23.4'	94°09.3'	3.6'	N 19°21.7'	1.2'	61.0'
20	213°09.6'	119°21.8'	N 23°23.3'	108°31.8'	3.6'	N 19°20.4'	1.4'	60.9'
21	228°12.0'	134°21.7'	N 23°23.3'	122°54.5'	3.7'	N 19°19.1'	1.5'	60.9'
22	243°14.5'	149°21.6'	N 23°23.2'	137°17.1'	3.7'	N 19°17.6'	1.6'	60.9'
23	258°17.0'	164°21.4'	N 23°23.1'	151°39.8'	3.7'	N 19°16.0'	1.8'	60.9'

## Sun Jun 25, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.1' SD = 15.7'		SD = 16.5'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	273°19.4'	179°21.3'	N 23°23.1'	166°02.5'	3.8'	N 19°14.2'	1.9'	60.9'
1	288°21.9'	194°21.2'	N 23°23.0'	180°25.3'	3.8'	N 19°12.2'	2.1'	60.8'
2	303°24.4'	209°21.0'	N 23°22.9'	194°48.1'	3.9'	N 19°10.2'	2.2'	60.8'
3	318°26.8'	224°20.9'	N 23°22.9'	209°11.0'	3.9'	N 19°08.0'	2.3'	60.8'
4	333°29.3'	239°20.7'	N 23°22.8'	223°33.9'	4.0'	N 19°05.6'	2.5'	60.8'
5	348°31.8'	254°20.6'	N 23°22.7'	237°56.9'	4.0'	N 19°03.2'	2.6'	60.7'
6	3°34.2'	269°20.5'	N 23°22.7'	252°19.9'	4.1'	N 19°00.5'	2.8'	60.7'
7	18°36.7'	284°20.3'	N 23°22.6'	266°42.9'	4.1'	N 18°57.8'	2.9'	60.7'
8	33°39.1'	299°20.2'	N 23°22.5'	281°06.0'	4.2'	N 18°54.9'	3.0'	60.7'
9	48°41.6'	314°20.1'	N 23°22.4'	295°29.2'	4.2'	N 18°51.9'	3.2'	60.7'
10	63°44.1'	329°19.9'	N 23°22.4'	309°52.5'	4.3'	N 18°48.7'	3.3'	60.6'
11	78°46.5'	344°19.8'	N 23°22.3'	324°15.7'	4.3'	N 18°45.4'	3.4'	60.6'
12	93°49.0'	359°19.7'	N 23°22.2'	338°39.1'	4.4'	N 18°42.0'	3.6'	60.6'
13	108°51.5'	14°19.5'	N 23°22.1'	353°02.5'	4.5'	N 18°38.4'	3.7'	60.5'
14	123°53.9'	29°19.4'	N 23°22.1'	7°26.0'	4.5'	N 18°34.7'	3.8'	60.5'
15	138°56.4'	44°19.3'	N 23°22.0'	21°49.5'	4.6'	N 18°30.9'	3.9'	60.5'
16	153°58.9'	59°19.1'	N 23°21.9'	36°13.1'	4.7'	N 18°27.0'	4.1'	60.5'
17	169°01.3'	74°19.0'	N 23°21.8'	50°36.8'	4.7'	N 18°22.9'	4.2'	60.4'
18	184°03.8'	89°18.9'	N 23°21.8'	65°00.5'	4.8'	N 18°18.7'	4.3'	60.4'
19	199°06.3'	104°18.7'	N 23°21.7'	79°24.3'	4.9'	N 18°14.4'	4.4'	60.4'
20	214°08.7'	119°18.6'	N 23°21.6'	93°48.2'	5.0'	N 18°09.9'	4.6'	60.4'
21	229°11.2'	134°18.5'	N 23°21.5'	108°12.2'	5.0'	N 18°05.4'	4.7'	60.3'
22	244°13.6'	149°18.4'	N 23°21.4'	122°36.2'	5.1'	N 18°00.7'	4.8'	60.3'
23	259°16.1'	164°18.2'	N 23°21.4'	137°00.3'	5.2'	N 17°55.8'	4.9'	60.3'

## Mon Jun 26, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.1' SD = 15.7'		SD = 16.3'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	274°18.6'	179°18.1'	N 23°21.3'	151°24.5'	5.3'	N 17°50.9'	5.1'	60.2'
1	289°21.0'	194°18.0'	N 23°21.2'	165°48.7'	5.3'	N 17°45.9'	5.2'	60.2'
2	304°23.5'	209°17.8'	N 23°21.1'	180°13.0'	5.4'	N 17°40.7'	5.3'	60.2'
3	319°26.0'	224°17.7'	N 23°21.0'	194°37.5'	5.5'	N 17°35.4'	5.4'	60.1'
4	334°28.4'	239°17.6'	N 23°20.9'	209°01.9'	5.6'	N 17°30.0'	5.5'	60.1'
5	349°30.9'	254°17.4'	N 23°20.9'	223°26.5'	5.6'	N 17°24.5'	5.6'	60.1'
6	4°33.4'	269°17.3'	N 23°20.8'	237°51.1'	5.7'	N 17°18.8'	5.7'	60.0'
7	19°35.8'	284°17.2'	N 23°20.7'	252°15.9'	5.8'	N 17°13.1'	5.9'	60.0'
8	34°38.3'	299°17.0'	N 23°20.6'	266°40.7'	5.9'	N 17°07.3'	6.0'	60.0'
9	49°40.8'	314°16.9'	N 23°20.5'	281°05.6'	6.0'	N 17°01.3'	6.1'	59.9'
10	64°43.2'	329°16.8'	N 23°20.4'	295°30.6'	6.1'	N 16°55.2'	6.2'	59.9'
11	79°45.7'	344°16.6'	N 23°20.3'	309°55.6'	6.1'	N 16°49.1'	6.3'	59.9'
12	94°48.1'	359°16.5'	N 23°20.2'	324°20.8'	6.2'	N 16°42.8'	6.4'	59.8'
13	109°50.6'	14°16.4'	N 23°20.1'	338°46.0'	6.3'	N 16°36.4'	6.5'	59.8'
14	124°53.1'	29°16.2'	N 23°20.1'	353°11.3'	6.4'	N 16°29.9'	6.6'	59.8'
15	139°55.5'	44°16.1'	N 23°20.0'	7°36.7'	6.5'	N 16°23.3'	6.7'	59.7'
16	154°58.0'	59°16.0'	N 23°19.9'	22°02.2'	6.6'	N 16°16.7'	6.8'	59.7'
17	170°00.5'	74°15.8'	N 23°19.8'	36°27.8'	6.7'	N 16°09.9'	6.9'	59.7'
18	185°02.9'	89°15.7'	N 23°19.7'	50°53.5'	6.8'	N 16°03.0'	7.0'	59.6'
19	200°05.4'	104°15.6'	N 23°19.6'	65°19.3'	6.9'	N 15°56.0'	7.1'	59.6'
20	215°07.9'	119°15.4'	N 23°19.5'	79°45.1'	6.9'	N 15°49.0'	7.2'	59.6'
21	230°10.3'	134°15.3'	N 23°19.4'	94°11.0'	7.0'	N 15°41.8'	7.3'	59.5'
22	245°12.8'	149°15.2'	N 23°19.3'	108°37.1'	7.1'	N 15°34.5'	7.3'	59.5'
23	260°15.2'	164°15.1'	N 23°19.2'	123°03.2'	7.2'	N 15°27.2'	7.4'	59.4'

Tue Jun 27, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.1' SD = 15.7'		SD = 16.1'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	275°17.7'	179°14.9'	N 23°19.1'	137°29.4'	7.3'	N 15°19.8'	7.5'	59.4'
1	290°20.2'	194°14.8'	N 23°19.0'	151°55.7'	7.4'	N 15°12.3'	7.6'	59.4'
2	305°22.6'	209°14.7'	N 23°18.9'	166°22.1'	7.5'	N 15°04.7'	7.7'	59.3'
3	320°25.1'	224°14.5'	N 23°18.8'	180°48.6'	7.6'	N 14°57.0'	7.8'	59.3'
4	335°27.6'	239°14.4'	N 23°18.7'	195°15.2'	7.7'	N 14°49.2'	7.9'	59.3'
5	350°30.0'	254°14.3'	N 23°18.6'	209°41.8'	7.8'	N 14°41.4'	7.9'	59.2'
6	5°32.5'	269°14.1'	N 23°18.5'	224°08.6'	7.8'	N 14°33.4'	8.0'	59.2'
7	20°35.0'	284°14.0'	N 23°18.4'	238°35.4'	7.9'	N 14°25.4'	8.1'	59.1'
8	35°37.4'	299°13.9'	N 23°18.3'	253°02.4'	8.0'	N 14°17.3'	8.2'	59.1'
9	50°39.9'	314°13.8'	N 23°18.2'	267°29.4'	8.1'	N 14°09.2'	8.2'	59.1'
10	65°42.4'	329°13.6'	N 23°18.1'	281°56.5'	8.2'	N 14°00.9'	8.3'	59.0'
11	80°44.8'	344°13.5'	N 23°17.9'	296°23.7'	8.3'	N 13°52.6'	8.4'	59.0'
12	95°47.3'	359°13.4'	N 23°17.8'	310°51.0'	8.4'	N 13°44.2'	8.5'	59.0'
13	110°49.7'	14°13.2'	N 23°17.7'	325°18.4'	8.5'	N 13°35.8'	8.5'	58.9'
14	125°52.2'	29°13.1'	N 23°17.6'	339°45.9'	8.6'	N 13°27.2'	8.6'	58.9'
15	140°54.7'	44°13.0'	N 23°17.5'	354°13.5'	8.7'	N 13°18.6'	8.7'	58.8'
16	155°57.1'	59°12.8'	N 23°17.4'	8°41.2'	8.8'	N 13°10.0'	8.7'	58.8'
17	170°59.6'	74°12.7'	N 23°17.3'	23°08.9'	8.8'	N 13°01.3'	8.8'	58.8'
18	186°02.1'	89°12.6'	N 23°17.2'	37°36.8'	8.9'	N 12°52.5'	8.9'	58.7'
19	201°04.5'	104°12.5'	N 23°17.1'	52°04.7'	9.0'	N 12°43.6'	8.9'	58.7'
20	216°07.0'	119°12.3'	N 23°17.0'	66°32.7'	9.1'	N 12°34.7'	9.0'	58.6'
21	231°09.5'	134°12.2'	N 23°16.8'	81°00.8'	9.2'	N 12°25.7'	9.0'	58.6'
22	246°11.9'	149°12.1'	N 23°16.7'	95°29.0'	9.3'	N 12°16.7'	9.1'	58.6'
23	261°14.4'	164°11.9'	N 23°16.6'	109°57.3'	9.4'	N 12°07.6'	9.1'	58.5'

Wed Jun 28, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.1' SD = 15.7'		SD = 15.8'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	276°16.9'	179°11.8'	N 23°16.5'	124°25.7'	9.5'	N 11°58.5'	9.2'	58.5'
1	291°19.3'	194°11.7'	N 23°16.4'	138°54.2'	9.5'	N 11°49.3'	9.3'	58.4'
2	306°21.8'	209°11.6'	N 23°16.3'	153°22.7'	9.6'	N 11°40.0'	9.3'	58.4'
3	321°24.2'	224°11.4'	N 23°16.1'	167°51.4'	9.7'	N 11°30.7'	9.4'	58.4'
4	336°26.7'	239°11.3'	N 23°16.0'	182°20.1'	9.8'	N 11°21.3'	9.4'	58.3'
5	351°29.2'	254°11.2'	N 23°15.9'	196°48.9'	9.9'	N 11°11.9'	9.5'	58.3'
6	6°31.6'	269°11.0'	N 23°15.8'	211°17.8'	10.0'	N 11°02.5'	9.5'	58.2'
7	21°34.1'	284°10.9'	N 23°15.7'	225°46.8'	10.1'	N 10°53.0'	9.6'	58.2'
8	36°36.6'	299°10.8'	N 23°15.5'	240°15.8'	10.1'	N 10°43.4'	9.6'	58.2'
9	51°39.0'	314°10.7'	N 23°15.4'	254°45.0'	10.2'	N 10°33.8'	9.6'	58.1'
10	66°41.5'	329°10.5'	N 23°15.3'	269°14.2'	10.3'	N 10°24.2'	9.7'	58.1'
11	81°44.0'	344°10.4'	N 23°15.2'	283°43.5'	10.4'	N 10°14.5'	9.7'	58.0'
12	96°46.4'	359°10.3'	N 23°15.0'	298°12.9'	10.5'	N 10°04.8'	9.8'	58.0'
13	111°48.9'	14°10.1'	N 23°14.9'	312°42.3'	10.5'	N 9°55.0'	9.8'	58.0'
14	126°51.4'	29°10.0'	N 23°14.8'	327°11.9'	10.6'	N 9°45.2'	9.8'	57.9'
15	141°53.8'	44°09.9'	N 23°14.7'	341°41.5'	10.7'	N 9°35.3'	9.9'	57.9'
16	156°56.3'	59°09.8'	N 23°14.5'	356°11.2'	10.8'	N 9°25.5'	9.9'	57.8'
17	171°58.7'	74°09.6'	N 23°14.4'	10°41.0'	10.9'	N 9°15.5'	10.0'	57.8'
18	187°01.2'	89°09.5'	N 23°14.3'	25°10.9'	10.9'	N 9°05.6'	10.0'	57.8'
19	202°03.7'	104°09.4'	N 23°14.1'	39°40.8'	11.0'	N 8°55.6'	10.0'	57.7'
20	217°06.1'	119°09.3'	N 23°14.0'	54°10.8'	11.1'	N 8°45.6'	10.1'	57.7'
21	232°08.6'	134°09.1'	N 23°13.9'	68°40.9'	11.2'	N 8°35.5'	10.1'	57.6'
22	247°11.1'	149°09.0'	N 23°13.7'	83°11.1'	11.2'	N 8°25.4'	10.1'	57.6'
23	262°13.5'	164°08.9'	N 23°13.6'	97°41.3'	11.3'	N 8°15.3'	10.1'	57.6'

Thu Jun 29, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.1' SD = 15.7'		SD = 15.6'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	277°16.0'	179°08.7'	N 23°13.5'	112°11.6'	11.4'	N 8°05.2'	10.2'	57.5'
1	292°18.5'	194°08.6'	N 23°13.3'	126°42.0'	11.5'	N 7°55.0'	10.2'	57.5'
2	307°20.9'	209°08.5'	N 23°13.2'	141°12.5'	11.5'	N 7°44.8'	10.2'	57.5'
3	322°23.4'	224°08.4'	N 23°13.1'	155°43.0'	11.6'	N 7°34.6'	10.2'	57.4'
4	337°25.8'	239°08.2'	N 23°12.9'	170°13.6'	11.7'	N 7°24.4'	10.3'	57.4'
5	352°28.3'	254°08.1'	N 23°12.8'	184°44.3'	11.7'	N 7°14.1'	10.3'	57.3'
6	7°30.8'	269°08.0'	N 23°12.7'	199°15.0'	11.8'	N 7°03.8'	10.3'	57.3'
7	22°33.2'	284°07.9'	N 23°12.5'	213°45.8'	11.9'	N 6°53.5'	10.3'	57.3'
8	37°35.7'	299°07.7'	N 23°12.4'	228°16.7'	11.9'	N 6°43.2'	10.3'	57.2'
9	52°38.2'	314°07.6'	N 23°12.2'	242°47.6'	12.0'	N 6°32.8'	10.4'	57.2'
10	67°40.6'	329°07.5'	N 23°12.1'	257°18.6'	12.1'	N 6°22.5'	10.4'	57.1'
11	82°43.1'	344°07.4'	N 23°12.0'	271°49.7'	12.1'	N 6°12.1'	10.4'	57.1'
12	97°45.6'	359°07.2'	N 23°11.8'	286°20.8'	12.2'	N 6°01.7'	10.4'	57.1'
13	112°48.0'	14°07.1'	N 23°11.7'	300°52.0'	12.3'	N 5°51.3'	10.4'	57.0'
14	127°50.5'	29°07.0'	N 23°11.5'	315°23.3'	12.3'	N 5°40.8'	10.4'	57.0'
15	142°53.0'	44°06.9'	N 23°11.4'	329°54.6'	12.4'	N 5°30.4'	10.5'	57.0'
16	157°55.4'	59°06.7'	N 23°11.3'	344°25.9'	12.4'	N 5°19.9'	10.5'	56.9'
17	172°57.9'	74°06.6'	N 23°11.1'	358°57.4'	12.5'	N 5°09.5'	10.5'	56.9'
18	188°00.3'	89°06.5'	N 23°11.0'	13°28.9'	12.6'	N 4°59.0'	10.5'	56.8'
19	203°02.8'	104°06.4'	N 23°10.8'	28°00.4'	12.6'	N 4°48.5'	10.5'	56.8'
20	218°05.3'	119°06.2'	N 23°10.7'	42°32.0'	12.7'	N 4°38.0'	10.5'	56.8'
21	233°07.7'	134°06.1'	N 23°10.5'	57°03.7'	12.7'	N 4°27.5'	10.5'	56.7'
22	248°10.2'	149°06.0'	N 23°10.4'	71°35.4'	12.8'	N 4°17.0'	10.5'	56.7'
23	263°12.7'	164°05.9'	N 23°10.2'	86°07.2'	12.8'	N 4°06.5'	10.5'	56.7'

Fri Jun 30, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.2' SD = 15.7'		SD = 15.3'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	278°15.1'	179°05.7'	N 23°10.1'	100°39.0'	12.9'	N 3°55.9'	10.5'	56.6'
1	293°17.6'	194°05.6'	N 23°09.9'	115°10.9'	12.9'	N 3°45.4'	10.5'	56.6'
2	308°20.1'	209°05.5'	N 23°09.8'	129°42.8'	13.0'	N 3°34.9'	10.5'	56.6'
3	323°22.5'	224°05.4'	N 23°09.6'	144°14.8'	13.0'	N 3°24.3'	10.5'	56.5'
4	338°25.0'	239°05.2'	N 23°09.5'	158°46.8'	13.1'	N 3°13.8'	10.5'	56.5'
5	353°27.4'	254°05.1'	N 23°09.3'	173°18.9'	13.1'	N 3°03.2'	10.5'	56.5'
6	8°29.9'	269°05.0'	N 23°09.1'	187°51.0'	13.2'	N 2°52.7'	10.5'	56.4'
7	23°32.4'	284°04.9'	N 23°09.0'	202°23.2'	13.2'	N 2°42.1'	10.5'	56.4'
8	38°34.8'	299°04.8'	N 23°08.8'	216°55.4'	13.3'	N 2°31.6'	10.5'	56.3'
9	53°37.3'	314°04.6'	N 23°08.7'	231°27.7'	13.3'	N 2°21.1'	10.5'	56.3'
10	68°39.8'	329°04.5'	N 23°08.5'	246°00.0'	13.4'	N 2°10.5'	10.5'	56.3'
11	83°42.2'	344°04.4'	N 23°08.4'	260°32.4'	13.4'	N 1°60.0'	10.5'	56.2'
12	98°44.7'	359°04.3'	N 23°08.2'	275°04.8'	13.4'	N 1°49.4'	10.5'	56.2'
13	113°47.2'	14°04.1'	N 23°08.0'	289°37.2'	13.5'	N 1°38.9'	10.5'	56.2'
14	128°49.6'	29°04.0'	N 23°07.9'	304°09.7'	13.5'	N 1°28.4'	10.5'	56.1'
15	143°52.1'	44°03.9'	N 23°07.7'	318°42.2'	13.6'	N 1°17.9'	10.5'	56.1'
16	158°54.6'	59°03.8'	N 23°07.6'	333°14.8'	13.6'	N 1°07.4'	10.5'	56.1'
17	173°57.0'	74°03.7'	N 23°07.4'	347°47.4'	13.6'	N 0°56.9'	10.5'	56.1'
18	188°59.5'	89°03.5'	N 23°07.2'	2°20.0'	13.7'	N 0°46.4'	10.5'	56.0'
19	204°01.9'	104°03.4'	N 23°07.1'	16°52.7'	13.7'	N 0°35.9'	10.5'	56.0'
20	219°04.4'	119°03.3'	N 23°06.9'	31°25.4'	13.7'	N 0°25.4'	10.5'	56.0'
21	234°06.9'	134°03.2'	N 23°06.7'	45°58.1'	13.8'	N 0°14.9'	10.5'	55.9'
22	249°09.3'	149°03.0'	N 23°06.6'	60°30.9'	13.8'	N 0°04.5'	10.4'	55.9'
23	264°11.8'	164°02.9'	N 23°06.4'	75°03.7'	13.8'	S 0°06.0'	10.4'	55.9'