

Fri Sep 1, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 15.8'		SD = 14.9'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	340°20.9'	179°58.6'	N 8°17.1'	62°06.1'	11.8'	S 19°23.4'	0.1'	54.4'
1	355°23.3'	194°58.8'	N 8°16.2'	76°36.9'	11.8'	S 19°23.5'	0.0'	54.4'
2	10°25.8'	209°59.0'	N 8°15.3'	91°07.6'	11.8'	S 19°23.6'	0.0'	54.5'
3	25°28.3'	224°59.2'	N 8°14.4'	105°38.4'	11.8'	S 19°23.5'	0.1'	54.5'
4	40°30.7'	239°59.4'	N 8°13.5'	120°09.2'	11.7'	S 19°23.4'	0.2'	54.5'
5	55°33.2'	254°59.6'	N 8°12.6'	134°39.9'	11.7'	S 19°23.2'	0.3'	54.5'
6	70°35.7'	269°59.8'	N 8°11.7'	149°10.6'	11.7'	S 19°22.8'	0.4'	54.5'
7	85°38.1'	284°60.0'	N 8°10.7'	163°41.3'	11.7'	S 19°22.4'	0.5'	54.5'
8	100°40.6'	300°00.2'	N 8°09.8'	178°12.0'	11.7'	S 19°21.9'	0.6'	54.5'
9	115°43.0'	315°00.4'	N 8°08.9'	192°42.7'	11.7'	S 19°21.3'	0.7'	54.5'
10	130°45.5'	330°00.6'	N 8°08.0'	207°13.4'	11.7'	S 19°20.7'	0.8'	54.6'
11	145°48.0'	345°00.8'	N 8°07.1'	221°44.1'	11.6'	S 19°19.9'	0.9'	54.6'
12	160°50.4'	0°01.0'	N 8°06.2'	236°14.7'	11.6'	S 19°19.0'	1.0'	54.6'
13	175°52.9'	15°01.2'	N 8°05.3'	250°45.3'	11.6'	S 19°18.0'	1.1'	54.6'
14	190°55.4'	30°01.4'	N 8°04.4'	265°16.0'	11.6'	S 19°17.0'	1.1'	54.6'
15	205°57.8'	45°01.6'	N 8°03.5'	279°46.6'	11.6'	S 19°15.8'	1.2'	54.6'
16	221°00.3'	60°01.8'	N 8°02.6'	294°17.2'	11.6'	S 19°14.6'	1.3'	54.6'
17	236°02.8'	75°02.0'	N 8°01.7'	308°47.8'	11.6'	S 19°13.3'	1.4'	54.6'
18	251°05.2'	90°02.2'	N 8°00.7'	323°18.3'	11.6'	S 19°11.8'	1.5'	54.7'
19	266°07.7'	105°02.4'	N 7°59.8'	337°48.9'	11.6'	S 19°10.3'	1.6'	54.7'
20	281°10.2'	120°02.6'	N 7°58.9'	352°19.5'	11.5'	S 19°08.7'	1.7'	54.7'
21	296°12.6'	135°02.8'	N 7°58.0'	6°50.0'	11.5'	S 19°07.0'	1.8'	54.7'
22	311°15.1'	150°03.0'	N 7°57.1'	21°20.6'	11.5'	S 19°05.2'	1.9'	54.7'
23	326°17.5'	165°03.2'	N 7°56.2'	35°51.1'	11.5'	S 19°03.3'	2.0'	54.7'

Sat Sep 2, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 15.9'		SD = 15.0'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	341°20.0'	180°03.4'	N 7°55.3'	50°21.6'	11.5'	S 19°01.3'	2.1'	54.8'
1	356°22.5'	195°03.6'	N 7°54.4'	64°52.1'	11.5'	S 18°59.2'	2.2'	54.8'
2	11°24.9'	210°03.8'	N 7°53.5'	79°22.6'	11.5'	S 18°57.1'	2.3'	54.8'
3	26°27.4'	225°04.0'	N 7°52.5'	93°53.1'	11.5'	S 18°54.8'	2.4'	54.8'
4	41°29.9'	240°04.2'	N 7°51.6'	108°23.6'	11.5'	S 18°52.5'	2.4'	54.8'
5	56°32.3'	255°04.4'	N 7°50.7'	122°54.1'	11.5'	S 18°50.0'	2.5'	54.8'
6	71°34.8'	270°04.6'	N 7°49.8'	137°24.6'	11.5'	S 18°47.5'	2.6'	54.9'
7	86°37.3'	285°04.8'	N 7°48.9'	151°55.1'	11.5'	S 18°44.8'	2.7'	54.9'
8	101°39.7'	300°05.0'	N 7°48.0'	166°25.5'	11.5'	S 18°42.1'	2.8'	54.9'
9	116°42.2'	315°05.2'	N 7°47.1'	180°56.0'	11.5'	S 18°39.3'	2.9'	54.9'
10	131°44.6'	330°05.4'	N 7°46.2'	195°26.4'	11.5'	S 18°36.4'	3.0'	54.9'
11	146°47.1'	345°05.6'	N 7°45.2'	209°56.9'	11.4'	S 18°33.4'	3.1'	54.9'
12	161°49.6'	0°05.8'	N 7°44.3'	224°27.3'	11.4'	S 18°30.3'	3.2'	55.0'
13	176°52.0'	15°06.0'	N 7°43.4'	238°57.8'	11.4'	S 18°27.1'	3.3'	55.0'
14	191°54.5'	30°06.2'	N 7°42.5'	253°28.2'	11.4'	S 18°23.8'	3.4'	55.0'
15	206°57.0'	45°06.4'	N 7°41.6'	267°58.7'	11.4'	S 18°20.4'	3.5'	55.0'
16	221°59.4'	60°06.6'	N 7°40.7'	282°29.1'	11.4'	S 18°17.0'	3.6'	55.0'
17	237°01.9'	75°06.8'	N 7°39.8'	296°59.5'	11.4'	S 18°13.4'	3.6'	55.1'
18	252°04.4'	90°07.0'	N 7°38.8'	311°29.9'	11.4'	S 18°09.8'	3.7'	55.1'
19	267°06.8'	105°07.2'	N 7°37.9'	326°00.4'	11.4'	S 18°06.0'	3.8'	55.1'
20	282°09.3'	120°07.4'	N 7°37.0'	340°30.8'	11.4'	S 18°02.2'	3.9'	55.1'
21	297°11.8'	135°07.6'	N 7°36.1'	355°01.2'	11.4'	S 17°58.3'	4.0'	55.1'
22	312°14.2'	150°07.9'	N 7°35.2'	9°31.6'	11.4'	S 17°54.3'	4.1'	55.2'
23	327°16.7'	165°08.1'	N 7°34.3'	24°02.0'	11.4'	S 17°50.2'	4.2'	55.2'

Sun Sep 3, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 15.9'		SD = 15.1'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	342°19.1'	180°08.3'	N 7°33.3'	38°32.4'	11.4'	S 17°46.0'	4.3'	55.2'
1	357°21.6'	195°08.5'	N 7°32.4'	53°02.9'	11.4'	S 17°41.7'	4.4'	55.2'
2	12°24.1'	210°08.7'	N 7°31.5'	67°33.3'	11.4'	S 17°37.3'	4.5'	55.2'
3	27°26.5'	225°08.9'	N 7°30.6'	82°03.7'	11.4'	S 17°32.8'	4.6'	55.3'
4	42°29.0'	240°09.1'	N 7°29.7'	96°34.1'	11.4'	S 17°28.3'	4.6'	55.3'
5	57°31.5'	255°09.3'	N 7°28.8'	111°04.5'	11.4'	S 17°23.6'	4.7'	55.3'
6	72°33.9'	270°09.5'	N 7°27.8'	125°34.9'	11.4'	S 17°18.9'	4.8'	55.3'
7	87°36.4'	285°09.7'	N 7°26.9'	140°05.3'	11.4'	S 17°14.1'	4.9'	55.3'
8	102°38.9'	300°09.9'	N 7°26.0'	154°35.7'	11.4'	S 17°09.2'	5.0'	55.4'
9	117°41.3'	315°10.1'	N 7°25.1'	169°06.2'	11.4'	S 17°04.2'	5.1'	55.4'
10	132°43.8'	330°10.3'	N 7°24.2'	183°36.6'	11.4'	S 16°59.1'	5.2'	55.4'
11	147°46.3'	345°10.5'	N 7°23.3'	198°07.0'	11.4'	S 16°53.9'	5.3'	55.4'
12	162°48.7'	0°10.7'	N 7°22.3'	212°37.4'	11.4'	S 16°48.6'	5.4'	55.5'
13	177°51.2'	15°10.9'	N 7°21.4'	227°07.8'	11.4'	S 16°43.3'	5.4'	55.5'
14	192°53.6'	30°11.1'	N 7°20.5'	241°38.3'	11.4'	S 16°37.9'	5.5'	55.5'
15	207°56.1'	45°11.3'	N 7°19.6'	256°08.7'	11.4'	S 16°32.3'	5.6'	55.5'
16	222°58.6'	60°11.5'	N 7°18.7'	270°39.1'	11.4'	S 16°26.7'	5.7'	55.5'
17	238°01.0'	75°11.8'	N 7°17.7'	285°09.5'	11.4'	S 16°21.0'	5.8'	55.6'
18	253°03.5'	90°12.0'	N 7°16.8'	299°40.0'	11.4'	S 16°15.2'	5.9'	55.6'
19	268°06.0'	105°12.2'	N 7°15.9'	314°10.4'	11.4'	S 16°09.4'	6.0'	55.6'
20	283°08.4'	120°12.4'	N 7°15.0'	328°40.9'	11.4'	S 16°03.4'	6.0'	55.6'
21	298°10.9'	135°12.6'	N 7°14.1'	343°11.3'	11.4'	S 15°57.4'	6.1'	55.7'
22	313°13.4'	150°12.8'	N 7°13.1'	357°41.8'	11.5'	S 15°51.2'	6.2'	55.7'
23	328°15.8'	165°13.0'	N 7°12.2'	12°12.2'	11.5'	S 15°45.0'	6.3'	55.7'

Mon Sep 4, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 15.9'		SD = 15.3'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	343°18.3'	180°13.2'	N 7°11.3'	26°42.7'	11.5'	S 15°38.7'	6.4'	55.7'
1	358°20.7'	195°13.4'	N 7°10.4'	41°13.1'	11.5'	S 15°32.4'	6.5'	55.7'
2	13°23.2'	210°13.6'	N 7°09.4'	55°43.6'	11.5'	S 15°25.9'	6.5'	55.8'
3	28°25.7'	225°13.8'	N 7°08.5'	70°14.1'	11.5'	S 15°19.4'	6.6'	55.8'
4	43°28.1'	240°14.0'	N 7°07.6'	84°44.5'	11.5'	S 15°12.8'	6.7'	55.8'
5	58°30.6'	255°14.2'	N 7°06.7'	99°15.0'	11.5'	S 15°06.1'	6.8'	55.8'
6	73°33.1'	270°14.4'	N 7°05.8'	113°45.5'	11.5'	S 14°59.3'	6.9'	55.9'
7	88°35.5'	285°14.6'	N 7°04.8'	128°16.0'	11.5'	S 14°52.4'	6.9'	55.9'
8	103°38.0'	300°14.9'	N 7°03.9'	142°46.5'	11.5'	S 14°45.5'	7.0'	55.9'
9	118°40.5'	315°15.1'	N 7°03.0'	157°17.0'	11.5'	S 14°38.4'	7.1'	55.9'
10	133°42.9'	330°15.3'	N 7°02.1'	171°47.5'	11.5'	S 14°31.3'	7.2'	56.0'
11	148°45.4'	345°15.5'	N 7°01.1'	186°18.0'	11.5'	S 14°24.1'	7.3'	56.0'
12	163°47.9'	0°15.7'	N 7°00.2'	200°48.5'	11.5'	S 14°16.9'	7.3'	56.0'
13	178°50.3'	15°15.9'	N 6°59.3'	215°19.0'	11.5'	S 14°09.5'	7.4'	56.0'
14	193°52.8'	30°16.1'	N 6°58.4'	229°49.5'	11.5'	S 14°02.1'	7.5'	56.1'
15	208°55.2'	45°16.3'	N 6°57.4'	244°20.1'	11.5'	S 13°54.6'	7.6'	56.1'
16	223°57.7'	60°16.5'	N 6°56.5'	258°50.6'	11.5'	S 13°47.1'	7.6'	56.1'
17	239°00.2'	75°16.7'	N 6°55.6'	273°21.1'	11.5'	S 13°39.4'	7.7'	56.1'
18	254°02.6'	90°16.9'	N 6°54.7'	287°51.7'	11.6'	S 13°31.7'	7.8'	56.2'
19	269°05.1'	105°17.2'	N 6°53.7'	302°22.2'	11.6'	S 13°23.9'	7.9'	56.2'
20	284°07.6'	120°17.4'	N 6°52.8'	316°52.8'	11.6'	S 13°16.0'	7.9'	56.2'
21	299°10.0'	135°17.6'	N 6°51.9'	331°23.4'	11.6'	S 13°08.1'	8.0'	56.2'
22	314°12.5'	150°17.8'	N 6°51.0'	345°53.9'	11.6'	S 13°00.1'	8.1'	56.3'
23	329°15.0'	165°18.0'	N 6°50.0'	0°24.5'	11.6'	S 12°52.0'	8.2'	56.3'

Tue Sep 5, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 15.9'		SD = 15.4'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	344°17.4'	180°18.2'	N 6°49.1'	14°55.1'	11.6'	S 12°43.8'	8.2'	56.3'
1	359°19.9'	195°18.4'	N 6°48.2'	29°25.6'	11.6'	S 12°35.6'	8.3'	56.3'
2	14°22.3'	210°18.6'	N 6°47.3'	43°56.2'	11.6'	S 12°27.3'	8.4'	56.4'
3	29°24.8'	225°18.8'	N 6°46.3'	58°26.8'	11.6'	S 12°18.9'	8.4'	56.4'
4	44°27.3'	240°19.0'	N 6°45.4'	72°57.4'	11.6'	S 12°10.5'	8.5'	56.4'
5	59°29.7'	255°19.2'	N 6°44.5'	87°28.0'	11.6'	S 12°02.0'	8.6'	56.4'
6	74°32.2'	270°19.5'	N 6°43.6'	101°58.6'	11.6'	S 11°53.4'	8.6'	56.5'
7	89°34.7'	285°19.7'	N 6°42.6'	116°29.2'	11.6'	S 11°44.8'	8.7'	56.5'
8	104°37.1'	300°19.9'	N 6°41.7'	130°59.9'	11.6'	S 11°36.0'	8.8'	56.5'
9	119°39.6'	315°20.1'	N 6°40.8'	145°30.5'	11.6'	S 11°27.3'	8.8'	56.5'
10	134°42.1'	330°20.3'	N 6°39.8'	160°01.1'	11.6'	S 11°18.4'	8.9'	56.6'
11	149°44.5'	345°20.5'	N 6°38.9'	174°31.7'	11.6'	S 11°09.5'	9.0'	56.6'
12	164°47.0'	0°20.7'	N 6°38.0'	189°02.4'	11.6'	S 11°00.5'	9.0'	56.6'
13	179°49.5'	15°20.9'	N 6°37.1'	203°33.0'	11.6'	S 10°51.5'	9.1'	56.6'
14	194°51.9'	30°21.1'	N 6°36.1'	218°03.6'	11.6'	S 10°42.4'	9.2'	56.7'
15	209°54.4'	45°21.4'	N 6°35.2'	232°34.3'	11.6'	S 10°33.2'	9.2'	56.7'
16	224°56.8'	60°21.6'	N 6°34.3'	247°04.9'	11.6'	S 10°24.0'	9.3'	56.7'
17	239°59.3'	75°21.8'	N 6°33.3'	261°35.6'	11.7'	S 10°14.7'	9.3'	56.7'
18	255°01.8'	90°22.0'	N 6°32.4'	276°06.2'	11.7'	S 10°05.4'	9.4'	56.8'
19	270°04.2'	105°22.2'	N 6°31.5'	290°36.9'	11.7'	S 9°56.0'	9.5'	56.8'
20	285°06.7'	120°22.4'	N 6°30.6'	305°07.5'	11.7'	S 9°46.5'	9.5'	56.8'
21	300°09.2'	135°22.6'	N 6°29.6'	319°38.2'	11.7'	S 9°37.0'	9.6'	56.8'
22	315°11.6'	150°22.8'	N 6°28.7'	334°08.9'	11.7'	S 9°27.4'	9.6'	56.8'
23	330°14.1'	165°23.0'	N 6°27.8'	348°39.5'	11.7'	S 9°17.8'	9.7'	56.9'

Wed Sep 6, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 15.9'		SD = 15.6'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	345°16.6'	180°23.3'	N 6°26.8'	3°10.2'	11.7'	S 9°08.1'	9.7'	56.9'
1	0°19.0'	195°23.5'	N 6°25.9'	17°40.9'	11.7'	S 8°58.4'	9.8'	56.9'
2	15°21.5'	210°23.7'	N 6°25.0'	32°11.5'	11.7'	S 8°48.6'	9.8'	56.9'
3	30°24.0'	225°23.9'	N 6°24.0'	46°42.2'	11.7'	S 8°38.7'	9.9'	57.0'
4	45°26.4'	240°24.1'	N 6°23.1'	61°12.9'	11.7'	S 8°28.8'	10.0'	57.0'
5	60°28.9'	255°24.3'	N 6°22.2'	75°43.5'	11.7'	S 8°18.9'	10.0'	57.0'
6	75°31.3'	270°24.5'	N 6°21.3'	90°14.2'	11.7'	S 8°08.9'	10.1'	57.0'
7	90°33.8'	285°24.7'	N 6°20.3'	104°44.9'	11.7'	S 7°58.8'	10.1'	57.1'
8	105°36.3'	300°25.0'	N 6°19.4'	119°15.5'	11.7'	S 7°48.7'	10.2'	57.1'
9	120°38.7'	315°25.2'	N 6°18.5'	133°46.2'	11.7'	S 7°38.6'	10.2'	57.1'
10	135°41.2'	330°25.4'	N 6°17.5'	148°16.9'	11.7'	S 7°28.4'	10.2'	57.1'
11	150°43.7'	345°25.6'	N 6°16.6'	162°47.5'	11.7'	S 7°18.1'	10.3'	57.2'
12	165°46.1'	0°25.8'	N 6°15.7'	177°18.2'	11.7'	S 7°07.8'	10.3'	57.2'
13	180°48.6'	15°26.0'	N 6°14.7'	191°48.9'	11.7'	S 6°57.5'	10.4'	57.2'
14	195°51.1'	30°26.2'	N 6°13.8'	206°19.5'	11.7'	S 6°47.1'	10.4'	57.2'
15	210°53.5'	45°26.4'	N 6°12.9'	220°50.2'	11.7'	S 6°36.7'	10.5'	57.3'
16	225°56.0'	60°26.7'	N 6°11.9'	235°20.8'	11.6'	S 6°26.2'	10.5'	57.3'
17	240°58.4'	75°26.9'	N 6°11.0'	249°51.5'	11.6'	S 6°15.7'	10.5'	57.3'
18	256°00.9'	90°27.1'	N 6°10.1'	264°22.1'	11.6'	S 6°05.2'	10.6'	57.3'
19	271°03.4'	105°27.3'	N 6°09.1'	278°52.8'	11.6'	S 5°54.6'	10.6'	57.3'
20	286°05.8'	120°27.5'	N 6°08.2'	293°23.4'	11.6'	S 5°44.0'	10.7'	57.4'
21	301°08.3'	135°27.7'	N 6°07.3'	307°54.0'	11.6'	S 5°33.3'	10.7'	57.4'
22	316°10.8'	150°27.9'	N 6°06.3'	322°24.6'	11.6'	S 5°22.6'	10.7'	57.4'
23	331°13.2'	165°28.2'	N 6°05.4'	336°55.3'	11.6'	S 5°11.9'	10.8'	57.4'

Thu Sep 7, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 15.9'		SD = 15.7'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	346°15.7'	180°28.4'	N 6°04.5'	351°25.9'	11.6'	S 5°01.1'	10.8'	57.5'
1	1°18.2'	195°28.6'	N 6°03.5'	5°56.5'	11.6'	S 4°50.3'	10.8'	57.5'
2	16°20.6'	210°28.8'	N 6°02.6'	20°27.1'	11.6'	S 4°39.4'	10.9'	57.5'
3	31°23.1'	225°29.0'	N 6°01.6'	34°57.7'	11.6'	S 4°28.6'	10.9'	57.5'
4	46°25.6'	240°29.2'	N 6°00.7'	49°28.3'	11.6'	S 4°17.7'	10.9'	57.6'
5	61°28.0'	255°29.4'	N 5°59.8'	63°58.8'	11.6'	S 4°06.7'	11.0'	57.6'
6	76°30.5'	270°29.7'	N 5°58.8'	78°29.4'	11.6'	S 3°55.8'	11.0'	57.6'
7	91°32.9'	285°29.9'	N 5°57.9'	92°59.9'	11.5'	S 3°44.8'	11.0'	57.6'
8	106°35.4'	300°30.1'	N 5°57.0'	107°30.5'	11.5'	S 3°33.8'	11.0'	57.6'
9	121°37.9'	315°30.3'	N 5°56.0'	122°01.0'	11.5'	S 3°22.7'	11.1'	57.7'
10	136°40.3'	330°30.5'	N 5°55.1'	136°31.5'	11.5'	S 3°11.7'	11.1'	57.7'
11	151°42.8'	345°30.7'	N 5°54.2'	151°02.1'	11.5'	S 3°00.6'	11.1'	57.7'
12	166°45.3'	0°30.9'	N 5°53.2'	165°32.6'	11.5'	S 2°49.4'	11.1'	57.7'
13	181°47.7'	15°31.2'	N 5°52.3'	180°03.1'	11.5'	S 2°38.3'	11.2'	57.7'
14	196°50.2'	30°31.4'	N 5°51.3'	194°33.5'	11.5'	S 2°27.1'	11.2'	57.8'
15	211°52.7'	45°31.6'	N 5°50.4'	209°04.0'	11.4'	S 2°16.0'	11.2'	57.8'
16	226°55.1'	60°31.8'	N 5°49.5'	223°34.4'	11.4'	S 2°04.7'	11.2'	57.8'
17	241°57.6'	75°32.0'	N 5°48.5'	238°04.9'	11.4'	S 1°53.5'	11.2'	57.8'
18	257°00.0'	90°32.2'	N 5°47.6'	252°35.3'	11.4'	S 1°42.3'	11.3'	57.9'
19	272°02.5'	105°32.4'	N 5°46.7'	267°05.7'	11.4'	S 1°31.0'	11.3'	57.9'
20	287°05.0'	120°32.7'	N 5°45.7'	281°36.1'	11.4'	S 1°19.8'	11.3'	57.9'
21	302°07.4'	135°32.9'	N 5°44.8'	296°06.5'	11.4'	S 1°08.5'	11.3'	57.9'
22	317°09.9'	150°33.1'	N 5°43.8'	310°36.8'	11.3'	S 0°57.2'	11.3'	57.9'
23	332°12.4'	165°33.3'	N 5°42.9'	325°07.2'	11.3'	S 0°45.9'	11.3'	58.0'

Fri Sep 8, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 15.9'		SD = 15.9'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	347°14.8'	180°33.5'	N 5°42.0'	339°37.5'	11.3'	S 0°34.5'	11.3'	58.0'
1	2°17.3'	195°33.7'	N 5°41.0'	354°07.8'	11.3'	S 0°23.2'	11.3'	58.0'
2	17°19.8'	210°34.0'	N 5°40.1'	8°38.1'	11.3'	S 0°11.9'	11.4'	58.0'
3	32°22.2'	225°34.2'	N 5°39.1'	23°08.3'	11.2'	S 0°00.5'	11.4'	58.0'
4	47°24.7'	240°34.4'	N 5°38.2'	37°38.6'	11.2'	N 0°10.8'	11.4'	58.1'
5	62°27.2'	255°34.6'	N 5°37.3'	52°08.8'	11.2'	N 0°22.2'	11.4'	58.1'
6	77°29.6'	270°34.8'	N 5°36.3'	66°39.0'	11.2'	N 0°33.6'	11.4'	58.1'
7	92°32.1'	285°35.0'	N 5°35.4'	81°09.2'	11.2'	N 0°44.9'	11.4'	58.1'
8	107°34.5'	300°35.3'	N 5°34.4'	95°39.3'	11.1'	N 0°56.3'	11.4'	58.1'
9	122°37.0'	315°35.5'	N 5°33.5'	110°09.5'	11.1'	N 1°07.7'	11.4'	58.1'
10	137°39.5'	330°35.7'	N 5°32.6'	124°39.6'	11.1'	N 1°19.1'	11.4'	58.2'
11	152°41.9'	345°35.9'	N 5°31.6'	139°09.7'	11.1'	N 1°30.5'	11.4'	58.2'
12	167°44.4'	0°36.1'	N 5°30.7'	153°39.8'	11.0'	N 1°41.8'	11.4'	58.2'
13	182°46.9'	15°36.3'	N 5°29.7'	168°09.8'	11.0'	N 1°53.2'	11.4'	58.2'
14	197°49.3'	30°36.6'	N 5°28.8'	182°39.8'	11.0'	N 2°04.6'	11.4'	58.2'
15	212°51.8'	45°36.8'	N 5°27.9'	197°09.8'	11.0'	N 2°16.0'	11.4'	58.3'
16	227°54.3'	60°37.0'	N 5°26.9'	211°39.8'	10.9'	N 2°27.3'	11.4'	58.3'
17	242°56.7'	75°37.2'	N 5°26.0'	226°09.7'	10.9'	N 2°38.7'	11.3'	58.3'
18	257°59.2'	90°37.4'	N 5°25.0'	240°39.6'	10.9'	N 2°50.0'	11.3'	58.3'
19	273°01.6'	105°37.6'	N 5°24.1'	255°09.5'	10.9'	N 3°01.3'	11.3'	58.3'
20	288°04.1'	120°37.9'	N 5°23.1'	269°39.4'	10.8'	N 3°12.7'	11.3'	58.3'
21	303°06.6'	135°38.1'	N 5°22.2'	284°09.2'	10.8'	N 3°24.0'	11.3'	58.4'
22	318°09.0'	150°38.3'	N 5°21.3'	298°39.0'	10.8'	N 3°35.3'	11.3'	58.4'
23	333°11.5'	165°38.5'	N 5°20.3'	313°08.8'	10.7'	N 3°46.6'	11.3'	58.4'

Sat Sep 9, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 15.9'		SD = 16.0'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	348°14.0'	180°38.7'	N 5°19.4'	327°38.5'	10.7'	N 3°57.9'	11.3'	58.4'
1	3°16.4'	195°38.9'	N 5°18.4'	342°08.2'	10.7'	N 4°09.1'	11.2'	58.4'
2	18°18.9'	210°39.2'	N 5°17.5'	356°37.9'	10.6'	N 4°20.4'	11.2'	58.4'
3	33°21.4'	225°39.4'	N 5°16.5'	11°07.5'	10.6'	N 4°31.6'	11.2'	58.5'
4	48°23.8'	240°39.6'	N 5°15.6'	25°37.1'	10.6'	N 4°42.8'	11.2'	58.5'
5	63°26.3'	255°39.8'	N 5°14.7'	40°06.7'	10.5'	N 4°54.0'	11.2'	58.5'
6	78°28.8'	270°40.0'	N 5°13.7'	54°36.3'	10.5'	N 5°05.1'	11.1'	58.5'
7	93°31.2'	285°40.2'	N 5°12.8'	69°05.8'	10.5'	N 5°16.3'	11.1'	58.5'
8	108°33.7'	300°40.5'	N 5°11.8'	83°35.3'	10.4'	N 5°27.4'	11.1'	58.5'
9	123°36.1'	315°40.7'	N 5°10.9'	98°04.7'	10.4'	N 5°38.5'	11.1'	58.5'
10	138°38.6'	330°40.9'	N 5°09.9'	112°34.1'	10.4'	N 5°49.5'	11.0'	58.6'
11	153°41.1'	345°41.1'	N 5°09.0'	127°03.5'	10.3'	N 6°00.6'	11.0'	58.6'
12	168°43.5'	0°41.3'	N 5°08.1'	141°32.8'	10.3'	N 6°11.6'	11.0'	58.6'
13	183°46.0'	15°41.6'	N 5°07.1'	156°02.1'	10.3'	N 6°22.6'	10.9'	58.6'
14	198°48.5'	30°41.8'	N 5°06.2'	170°31.4'	10.2'	N 6°33.5'	10.9'	58.6'
15	213°50.9'	45°42.0'	N 5°05.2'	185°00.6'	10.2'	N 6°44.4'	10.9'	58.6'
16	228°53.4'	60°42.2'	N 5°04.3'	199°29.8'	10.1'	N 6°55.3'	10.9'	58.6'
17	243°55.9'	75°42.4'	N 5°03.3'	213°58.9'	10.1'	N 7°06.2'	10.8'	58.7'
18	258°58.3'	90°42.6'	N 5°02.4'	228°28.0'	10.1'	N 7°17.0'	10.8'	58.7'
19	274°00.8'	105°42.9'	N 5°01.4'	242°57.1'	10.0'	N 7°27.8'	10.7'	58.7'
20	289°03.3'	120°43.1'	N 5°00.5'	257°26.1'	10.0'	N 7°38.5'	10.7'	58.7'
21	304°05.7'	135°43.3'	N 4°59.5'	271°55.1'	9.9'	N 7°49.2'	10.7'	58.7'
22	319°08.2'	150°43.5'	N 4°58.6'	286°24.0'	9.9'	N 7°59.9'	10.6'	58.7'
23	334°10.6'	165°43.7'	N 4°57.6'	300°52.9'	9.9'	N 8°10.5'	10.6'	58.7'

Sun Sep 10, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 15.9'		SD = 16.1'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	349°13.1'	180°44.0'	N 4°56.7'	315°21.8'	9.8'	N 8°21.1'	10.5'	58.8'
1	4°15.6'	195°44.2'	N 4°55.8'	329°50.6'	9.8'	N 8°31.6'	10.5'	58.8'
2	19°18.0'	210°44.4'	N 4°54.8'	344°19.4'	9.7'	N 8°42.1'	10.4'	58.8'
3	34°20.5'	225°44.6'	N 4°53.9'	358°48.1'	9.7'	N 8°52.5'	10.4'	58.8'
4	49°23.0'	240°44.8'	N 4°52.9'	13°16.8'	9.6'	N 9°02.9'	10.4'	58.8'
5	64°25.4'	255°45.1'	N 4°52.0'	27°45.4'	9.6'	N 9°13.3'	10.3'	58.8'
6	79°27.9'	270°45.3'	N 4°51.0'	42°14.0'	9.6'	N 9°23.6'	10.3'	58.8'
7	94°30.4'	285°45.5'	N 4°50.1'	56°42.6'	9.5'	N 9°33.8'	10.2'	58.8'
8	109°32.8'	300°45.7'	N 4°49.1'	71°11.1'	9.5'	N 9°44.0'	10.1'	58.8'
9	124°35.3'	315°45.9'	N 4°48.2'	85°39.6'	9.4'	N 9°54.2'	10.1'	58.9'
10	139°37.7'	330°46.1'	N 4°47.2'	100°08.0'	9.4'	N 10°04.3'	10.0'	58.9'
11	154°40.2'	345°46.4'	N 4°46.3'	114°36.4'	9.3'	N 10°14.3'	10.0'	58.9'
12	169°42.7'	0°46.6'	N 4°45.3'	129°04.7'	9.3'	N 10°24.3'	9.9'	58.9'
13	184°45.1'	15°46.8'	N 4°44.4'	143°33.0'	9.2'	N 10°34.2'	9.9'	58.9'
14	199°47.6'	30°47.0'	N 4°43.4'	158°01.2'	9.2'	N 10°44.1'	9.8'	58.9'
15	214°50.1'	45°47.2'	N 4°42.5'	172°29.4'	9.1'	N 10°53.9'	9.7'	58.9'
16	229°52.5'	60°47.5'	N 4°41.5'	186°57.5'	9.1'	N 11°03.7'	9.7'	58.9'
17	244°55.0'	75°47.7'	N 4°40.6'	201°25.6'	9.0'	N 11°13.3'	9.6'	58.9'
18	259°57.5'	90°47.9'	N 4°39.6'	215°53.7'	9.0'	N 11°23.0'	9.6'	59.0'
19	274°59.9'	105°48.1'	N 4°38.7'	230°21.7'	8.9'	N 11°32.5'	9.5'	59.0'
20	290°02.4'	120°48.3'	N 4°37.7'	244°49.6'	8.9'	N 11°42.0'	9.4'	59.0'
21	305°04.9'	135°48.6'	N 4°36.8'	259°17.5'	8.9'	N 11°51.4'	9.4'	59.0'
22	320°07.3'	150°48.8'	N 4°35.8'	273°45.4'	8.8'	N 12°00.8'	9.3'	59.0'
23	335°09.8'	165°49.0'	N 4°34.9'	288°13.2'	8.8'	N 12°10.1'	9.2'	59.0'

Mon Sep 11, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 1.0' SD = 15.9'		SD = 16.1'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	350°12.2'	180°49.2'	N 4°33.9'	302°40.9'	8.7'	N 12°19.3'	9.1'	59.0'
1	5°14.7'	195°49.4'	N 4°33.0'	317°08.6'	8.7'	N 12°28.5'	9.1'	59.0'
2	20°17.2'	210°49.7'	N 4°32.0'	331°36.3'	8.6'	N 12°37.5'	9.0'	59.0'
3	35°19.6'	225°49.9'	N 4°31.1'	346°03.9'	8.6'	N 12°46.5'	8.9'	59.0'
4	50°22.1'	240°50.1'	N 4°30.1'	0°31.5'	8.5'	N 12°55.5'	8.9'	59.0'
5	65°24.6'	255°50.3'	N 4°29.2'	14°59.0'	8.5'	N 13°04.3'	8.8'	59.0'
6	80°27.0'	270°50.5'	N 4°28.2'	29°26.4'	8.4'	N 13°13.1'	8.7'	59.1'
7	95°29.5'	285°50.8'	N 4°27.3'	43°53.8'	8.4'	N 13°21.8'	8.6'	59.1'
8	110°32.0'	300°51.0'	N 4°26.3'	58°21.2'	8.3'	N 13°30.4'	8.5'	59.1'
9	125°34.4'	315°51.2'	N 4°25.4'	72°48.5'	8.3'	N 13°39.0'	8.5'	59.1'
10	140°36.9'	330°51.4'	N 4°24.4'	87°15.8'	8.2'	N 13°47.4'	8.4'	59.1'
11	155°39.3'	345°51.6'	N 4°23.5'	101°43.0'	8.2'	N 13°55.8'	8.3'	59.1'
12	170°41.8'	0°51.9'	N 4°22.5'	116°10.2'	8.1'	N 14°04.1'	8.2'	59.1'
13	185°44.3'	15°52.1'	N 4°21.6'	130°37.3'	8.1'	N 14°12.3'	8.1'	59.1'
14	200°46.7'	30°52.3'	N 4°20.6'	145°04.3'	8.0'	N 14°20.5'	8.0'	59.1'
15	215°49.2'	45°52.5'	N 4°19.7'	159°31.4'	8.0'	N 14°28.5'	8.0'	59.1'
16	230°51.7'	60°52.7'	N 4°18.7'	173°58.3'	7.9'	N 14°36.5'	7.9'	59.1'
17	245°54.1'	75°53.0'	N 4°17.8'	188°25.2'	7.9'	N 14°44.3'	7.8'	59.1'
18	260°56.6'	90°53.2'	N 4°16.8'	202°52.1'	7.8'	N 14°52.1'	7.7'	59.1'
19	275°59.1'	105°53.4'	N 4°15.9'	217°18.9'	7.8'	N 14°59.8'	7.6'	59.1'
20	291°01.5'	120°53.6'	N 4°14.9'	231°45.7'	7.7'	N 15°07.4'	7.5'	59.2'
21	306°04.0'	135°53.9'	N 4°14.0'	246°12.4'	7.7'	N 15°14.9'	7.4'	59.2'
22	321°06.5'	150°54.1'	N 4°13.0'	260°39.1'	7.6'	N 15°22.3'	7.3'	59.2'
23	336°08.9'	165°54.3'	N 4°12.1'	275°05.7'	7.6'	N 15°29.6'	7.2'	59.2'

Tue Sep 12, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 1.0' SD = 15.9'		SD = 16.2'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	351°11.4'	180°54.5'	N 4°11.1'	289°32.3'	7.5'	N 15°36.8'	7.1'	59.2'
1	6°13.8'	195°54.7'	N 4°10.1'	303°58.9'	7.5'	N 15°44.0'	7.0'	59.2'
2	21°16.3'	210°55.0'	N 4°09.2'	318°25.3'	7.4'	N 15°51.0'	6.9'	59.2'
3	36°18.8'	225°55.2'	N 4°08.2'	332°51.8'	7.4'	N 15°57.9'	6.8'	59.2'
4	51°21.2'	240°55.4'	N 4°07.3'	347°18.2'	7.3'	N 16°04.8'	6.7'	59.2'
5	66°23.7'	255°55.6'	N 4°06.3'	1°44.5'	7.3'	N 16°11.5'	6.6'	59.2'
6	81°26.2'	270°55.8'	N 4°05.4'	16°10.8'	7.3'	N 16°18.1'	6.5'	59.2'
7	96°28.6'	285°56.1'	N 4°04.4'	30°37.1'	7.2'	N 16°24.6'	6.4'	59.2'
8	111°31.1'	300°56.3'	N 4°03.5'	45°03.3'	7.2'	N 16°31.1'	6.3'	59.2'
9	126°33.6'	315°56.5'	N 4°02.5'	59°29.5'	7.1'	N 16°37.4'	6.2'	59.2'
10	141°36.0'	330°56.7'	N 4°01.6'	73°55.6'	7.1'	N 16°43.6'	6.1'	59.2'
11	156°38.5'	345°56.9'	N 4°00.6'	88°21.7'	7.0'	N 16°49.7'	6.0'	59.2'
12	171°41.0'	0°57.2'	N 3°59.7'	102°47.7'	7.0'	N 16°55.7'	5.9'	59.2'
13	186°43.4'	15°57.4'	N 3°58.7'	117°13.7'	7.0'	N 17°01.6'	5.8'	59.2'
14	201°45.9'	30°57.6'	N 3°57.7'	131°39.7'	6.9'	N 17°07.4'	5.7'	59.2'
15	216°48.3'	45°57.8'	N 3°56.8'	146°05.6'	6.9'	N 17°13.1'	5.6'	59.2'
16	231°50.8'	60°58.1'	N 3°55.8'	160°31.5'	6.8'	N 17°18.7'	5.5'	59.2'
17	246°53.3'	75°58.3'	N 3°54.9'	174°57.3'	6.8'	N 17°24.2'	5.4'	59.2'
18	261°55.7'	90°58.5'	N 3°53.9'	189°23.1'	6.8'	N 17°29.5'	5.2'	59.3'
19	276°58.2'	105°58.7'	N 3°53.0'	203°48.9'	6.7'	N 17°34.8'	5.1'	59.3'
20	292°00.7'	120°58.9'	N 3°52.0'	218°14.6'	6.7'	N 17°39.9'	5.0'	59.3'
21	307°03.1'	135°59.2'	N 3°51.1'	232°40.3'	6.6'	N 17°44.9'	4.9'	59.3'
22	322°05.6'	150°59.4'	N 3°50.1'	247°05.9'	6.6'	N 17°49.8'	4.8'	59.3'
23	337°08.1'	165°59.6'	N 3°49.1'	261°31.5'	6.6'	N 17°54.6'	4.7'	59.3'

Wed Sep 13, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 1.0' SD = 15.9'		SD = 16.2'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	352°10.5'	180°59.8'	N 3°48.2'	275°57.1'	6.5'	N 17°59.3'	4.6'	59.3'
1	7°13.0'	196°00.0'	N 3°47.2'	290°22.6'	6.5'	N 18°03.8'	4.4'	59.3'
2	22°15.5'	211°00.3'	N 3°46.3'	304°48.1'	6.5'	N 18°08.3'	4.3'	59.3'
3	37°17.9'	226°00.5'	N 3°45.3'	319°13.6'	6.4'	N 18°12.6'	4.2'	59.3'
4	52°20.4'	241°00.7'	N 3°44.4'	333°39.0'	6.4'	N 18°16.8'	4.1'	59.3'
5	67°22.8'	256°00.9'	N 3°43.4'	348°04.5'	6.4'	N 18°20.9'	4.0'	59.3'
6	82°25.3'	271°01.2'	N 3°42.4'	2°29.8'	6.3'	N 18°24.8'	3.8'	59.3'
7	97°27.8'	286°01.4'	N 3°41.5'	16°55.2'	6.3'	N 18°28.7'	3.7'	59.3'
8	112°30.2'	301°01.6'	N 3°40.5'	31°20.5'	6.3'	N 18°32.4'	3.6'	59.3'
9	127°32.7'	316°01.8'	N 3°39.6'	45°45.8'	6.3'	N 18°36.0'	3.5'	59.3'
10	142°35.2'	331°02.0'	N 3°38.6'	60°11.1'	6.2'	N 18°39.5'	3.4'	59.3'
11	157°37.6'	346°02.3'	N 3°37.7'	74°36.3'	6.2'	N 18°42.9'	3.2'	59.3'
12	172°40.1'	1°02.5'	N 3°36.7'	89°01.5'	6.2'	N 18°46.1'	3.1'	59.3'
13	187°42.6'	16°02.7'	N 3°35.7'	103°26.7'	6.2'	N 18°49.2'	3.0'	59.3'
14	202°45.0'	31°02.9'	N 3°34.8'	117°51.9'	6.1'	N 18°52.2'	2.9'	59.3'
15	217°47.5'	46°03.2'	N 3°33.8'	132°17.0'	6.1'	N 18°55.1'	2.7'	59.3'
16	232°49.9'	61°03.4'	N 3°32.9'	146°42.1'	6.1'	N 18°57.8'	2.6'	59.3'
17	247°52.4'	76°03.6'	N 3°31.9'	161°07.2'	6.1'	N 19°00.4'	2.5'	59.3'
18	262°54.9'	91°03.8'	N 3°31.0'	175°32.3'	6.1'	N 19°02.9'	2.4'	59.3'
19	277°57.3'	106°04.0'	N 3°30.0'	189°57.4'	6.0'	N 19°05.3'	2.2'	59.3'
20	292°59.8'	121°04.3'	N 3°29.0'	204°22.4'	6.0'	N 19°07.5'	2.1'	59.3'
21	308°02.3'	136°04.5'	N 3°28.1'	218°47.4'	6.0'	N 19°09.7'	2.0'	59.3'
22	323°04.7'	151°04.7'	N 3°27.1'	233°12.4'	6.0'	N 19°11.7'	1.9'	59.3'
23	338°07.2'	166°04.9'	N 3°26.2'	247°37.4'	6.0'	N 19°13.5'	1.7'	59.3'

Thu Sep 14, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 1.0' SD = 15.9'		SD = 16.2'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	353°09.7'	181°05.2'	N 3°25.2'	262°02.4'	6.0'	N 19°15.3'	1.6'	59.3'
1	8°12.1'	196°05.4'	N 3°24.2'	276°27.4'	6.0'	N 19°16.9'	1.5'	59.3'
2	23°14.6'	211°05.6'	N 3°23.3'	290°52.4'	6.0'	N 19°18.3'	1.4'	59.3'
3	38°17.1'	226°05.8'	N 3°22.3'	305°17.3'	5.9'	N 19°19.7'	1.2'	59.3'
4	53°19.5'	241°06.0'	N 3°21.4'	319°42.2'	5.9'	N 19°20.9'	1.1'	59.3'
5	68°22.0'	256°06.3'	N 3°20.4'	334°07.2'	5.9'	N 19°22.0'	1.0'	59.3'
6	83°24.4'	271°06.5'	N 3°19.4'	348°32.1'	5.9'	N 19°23.0'	0.8'	59.3'
7	98°26.9'	286°06.7'	N 3°18.5'	2°57.0'	5.9'	N 19°23.8'	0.7'	59.3'
8	113°29.4'	301°06.9'	N 3°17.5'	17°21.9'	5.9'	N 19°24.5'	0.6'	59.3'
9	128°31.8'	316°07.1'	N 3°16.6'	31°46.9'	5.9'	N 19°25.1'	0.5'	59.3'
10	143°34.3'	331°07.4'	N 3°15.6'	46°11.8'	5.9'	N 19°25.6'	0.3'	59.3'
11	158°36.8'	346°07.6'	N 3°14.6'	60°36.7'	5.9'	N 19°25.9'	0.2'	59.3'
12	173°39.2'	1°07.8'	N 3°13.7'	75°01.6'	5.9'	N 19°26.1'	0.1'	59.3'
13	188°41.7'	16°08.0'	N 3°12.7'	89°26.5'	5.9'	N 19°26.2'	0.1'	59.2'
14	203°44.2'	31°08.3'	N 3°11.8'	103°51.4'	5.9'	N 19°26.1'	0.2'	59.2'
15	218°46.6'	46°08.5'	N 3°10.8'	118°16.3'	5.9'	N 19°25.9'	0.3'	59.2'
16	233°49.1'	61°08.7'	N 3°09.8'	132°41.3'	5.9'	N 19°25.6'	0.4'	59.2'
17	248°51.6'	76°08.9'	N 3°08.9'	147°06.2'	5.9'	N 19°25.2'	0.6'	59.2'
18	263°54.0'	91°09.1'	N 3°07.9'	161°31.1'	5.9'	N 19°24.6'	0.7'	59.2'
19	278°56.5'	106°09.4'	N 3°07.0'	175°56.1'	6.0'	N 19°23.9'	0.8'	59.2'
20	293°58.9'	121°09.6'	N 3°06.0'	190°21.0'	6.0'	N 19°23.1'	1.0'	59.2'
21	309°01.4'	136°09.8'	N 3°05.0'	204°46.0'	6.0'	N 19°22.1'	1.1'	59.2'
22	324°03.9'	151°10.0'	N 3°04.1'	219°10.9'	6.0'	N 19°21.0'	1.2'	59.2'
23	339°06.3'	166°10.3'	N 3°03.1'	233°35.9'	6.0'	N 19°19.8'	1.3'	59.2'

Fri Sep 15, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 1.0' SD = 15.9'		SD = 16.1'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	354°08.8'	181°10.5'	N 3°02.2'	248°00.9'	6.0'	N 19°18.5'	1.5'	59.2'
1	9°11.3'	196°10.7'	N 3°01.2'	262°25.9'	6.0'	N 19°17.0'	1.6'	59.2'
2	24°13.7'	211°10.9'	N 3°00.2'	276°51.0'	6.0'	N 19°15.4'	1.7'	59.2'
3	39°16.2'	226°11.2'	N 2°59.3'	291°16.0'	6.1'	N 19°13.7'	1.8'	59.2'
4	54°18.7'	241°11.4'	N 2°58.3'	305°41.1'	6.1'	N 19°11.8'	2.0'	59.2'
5	69°21.1'	256°11.6'	N 2°57.3'	320°06.2'	6.1'	N 19°09.8'	2.1'	59.2'
6	84°23.6'	271°11.8'	N 2°56.4'	334°31.3'	6.1'	N 19°07.7'	2.2'	59.2'
7	99°26.1'	286°12.0'	N 2°55.4'	348°56.4'	6.1'	N 19°05.5'	2.4'	59.2'
8	114°28.5'	301°12.3'	N 2°54.5'	3°21.5'	6.2'	N 19°03.2'	2.5'	59.2'
9	129°31.0'	316°12.5'	N 2°53.5'	17°46.7'	6.2'	N 19°00.7'	2.6'	59.2'
10	144°33.4'	331°12.7'	N 2°52.5'	32°11.9'	6.2'	N 18°58.1'	2.7'	59.1'
11	159°35.9'	346°12.9'	N 2°51.6'	46°37.1'	6.2'	N 18°55.4'	2.8'	59.1'
12	174°38.4'	1°13.2'	N 2°50.6'	61°02.4'	6.3'	N 18°52.5'	3.0'	59.1'
13	189°40.8'	16°13.4'	N 2°49.6'	75°27.6'	6.3'	N 18°49.5'	3.1'	59.1'
14	204°43.3'	31°13.6'	N 2°48.7'	89°52.9'	6.3'	N 18°46.4'	3.2'	59.1'
15	219°45.8'	46°13.8'	N 2°47.7'	104°18.3'	6.4'	N 18°43.2'	3.3'	59.1'
16	234°48.2'	61°14.0'	N 2°46.8'	118°43.6'	6.4'	N 18°39.9'	3.5'	59.1'
17	249°50.7'	76°14.3'	N 2°45.8'	133°09.0'	6.4'	N 18°36.4'	3.6'	59.1'
18	264°53.2'	91°14.5'	N 2°44.8'	147°34.5'	6.5'	N 18°32.8'	3.7'	59.1'
19	279°55.6'	106°14.7'	N 2°43.9'	161°59.9'	6.5'	N 18°29.2'	3.8'	59.1'
20	294°58.1'	121°14.9'	N 2°42.9'	176°25.4'	6.5'	N 18°25.3'	3.9'	59.1'
21	310°00.5'	136°15.2'	N 2°41.9'	190°50.9'	6.6'	N 18°21.4'	4.1'	59.1'
22	325°03.0'	151°15.4'	N 2°41.0'	205°16.5'	6.6'	N 18°17.3'	4.2'	59.1'
23	340°05.5'	166°15.6'	N 2°40.0'	219°42.1'	6.6'	N 18°13.2'	4.3'	59.1'

Sat Sep 16, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 1.0' SD = 15.9'		SD = 16.1'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	355°07.9'	181°15.8'	N 2°39.0'	234°07.8'	6.7'	N 18°08.9'	4.4'	59.0'
1	10°10.4'	196°16.0'	N 2°38.1'	248°33.4'	6.7'	N 18°04.5'	4.5'	59.0'
2	25°12.9'	211°16.3'	N 2°37.1'	262°59.2'	6.8'	N 17°60.0'	4.6'	59.0'
3	40°15.3'	226°16.5'	N 2°36.2'	277°24.9'	6.8'	N 17°55.3'	4.7'	59.0'
4	55°17.8'	241°16.7'	N 2°35.2'	291°50.7'	6.8'	N 17°50.6'	4.9'	59.0'
5	70°20.3'	256°16.9'	N 2°34.2'	306°16.6'	6.9'	N 17°45.7'	5.0'	59.0'
6	85°22.7'	271°17.2'	N 2°33.3'	320°42.4'	6.9'	N 17°40.8'	5.1'	59.0'
7	100°25.2'	286°17.4'	N 2°32.3'	335°08.4'	7.0'	N 17°35.7'	5.2'	59.0'
8	115°27.7'	301°17.6'	N 2°31.3'	349°34.3'	7.0'	N 17°30.5'	5.3'	59.0'
9	130°30.1'	316°17.8'	N 2°30.4'	4°00.4'	7.1'	N 17°25.2'	5.4'	59.0'
10	145°32.6'	331°18.0'	N 2°29.4'	18°26.4'	7.1'	N 17°19.8'	5.5'	58.9'
11	160°35.0'	346°18.3'	N 2°28.4'	32°52.5'	7.2'	N 17°14.3'	5.6'	58.9'
12	175°37.5'	1°18.5'	N 2°27.5'	47°18.7'	7.2'	N 17°08.6'	5.7'	58.9'
13	190°40.0'	16°18.7'	N 2°26.5'	61°44.9'	7.3'	N 17°02.9'	5.8'	58.9'
14	205°42.4'	31°18.9'	N 2°25.5'	76°11.2'	7.3'	N 16°57.1'	5.9'	58.9'
15	220°44.9'	46°19.2'	N 2°24.6'	90°37.5'	7.4'	N 16°51.1'	6.0'	58.9'
16	235°47.4'	61°19.4'	N 2°23.6'	105°03.8'	7.4'	N 16°45.1'	6.1'	58.9'
17	250°49.8'	76°19.6'	N 2°22.6'	119°30.2'	7.5'	N 16°38.9'	6.3'	58.9'
18	265°52.3'	91°19.8'	N 2°21.7'	133°56.7'	7.5'	N 16°32.7'	6.4'	58.9'
19	280°54.8'	106°20.1'	N 2°20.7'	148°23.2'	7.6'	N 16°26.3'	6.5'	58.8'
20	295°57.2'	121°20.3'	N 2°19.7'	162°49.7'	7.6'	N 16°19.9'	6.6'	58.8'
21	310°59.7'	136°20.5'	N 2°18.8'	177°16.3'	7.7'	N 16°13.3'	6.6'	58.8'
22	326°02.2'	151°20.7'	N 2°17.8'	191°43.0'	7.7'	N 16°06.7'	6.7'	58.8'
23	341°04.6'	166°20.9'	N 2°16.9'	206°09.7'	7.8'	N 15°59.9'	6.8'	58.8'

Sun Sep 17, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 1.0' SD = 15.9'		SD = 16.0'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	356°07.1'	181°21.2'	N 2°15.9'	220°36.5'	7.8'	N 15°53.1'	6.9'	58.8'
1	11°09.5'	196°21.4'	N 2°14.9'	235°03.3'	7.9'	N 15°46.1'	7.0'	58.8'
2	26°12.0'	211°21.6'	N 2°14.0'	249°30.1'	7.9'	N 15°39.1'	7.1'	58.8'
3	41°14.5'	226°21.8'	N 2°13.0'	263°57.1'	8.0'	N 15°32.0'	7.2'	58.7'
4	56°16.9'	241°22.1'	N 2°12.0'	278°24.1'	8.0'	N 15°24.8'	7.3'	58.7'
5	71°19.4'	256°22.3'	N 2°11.1'	292°51.1'	8.1'	N 15°17.5'	7.4'	58.7'
6	86°21.9'	271°22.5'	N 2°10.1'	307°18.2'	8.1'	N 15°10.1'	7.5'	58.7'
7	101°24.3'	286°22.7'	N 2°09.1'	321°45.3'	8.2'	N 15°02.6'	7.6'	58.7'
8	116°26.8'	301°22.9'	N 2°08.2'	336°12.5'	8.3'	N 14°55.0'	7.7'	58.7'
9	131°29.3'	316°23.2'	N 2°07.2'	350°39.8'	8.3'	N 14°47.3'	7.7'	58.7'
10	146°31.7'	331°23.4'	N 2°06.2'	5°07.1'	8.4'	N 14°39.6'	7.8'	58.6'
11	161°34.2'	346°23.6'	N 2°05.3'	19°34.5'	8.4'	N 14°31.8'	7.9'	58.6'
12	176°36.6'	1°23.8'	N 2°04.3'	34°01.9'	8.5'	N 14°23.8'	8.0'	58.6'
13	191°39.1'	16°24.1'	N 2°03.3'	48°29.4'	8.5'	N 14°15.8'	8.1'	58.6'
14	206°41.6'	31°24.3'	N 2°02.4'	62°57.0'	8.6'	N 14°07.8'	8.2'	58.6'
15	221°44.0'	46°24.5'	N 2°01.4'	77°24.6'	8.7'	N 13°59.6'	8.2'	58.6'
16	236°46.5'	61°24.7'	N 2°00.4'	91°52.2'	8.7'	N 13°51.4'	8.3'	58.5'
17	251°49.0'	76°24.9'	N 1°59.5'	106°20.0'	8.8'	N 13°43.1'	8.4'	58.5'
18	266°51.4'	91°25.2'	N 1°58.5'	120°47.7'	8.8'	N 13°34.7'	8.5'	58.5'
19	281°53.9'	106°25.4'	N 1°57.5'	135°15.6'	8.9'	N 13°26.2'	8.5'	58.5'
20	296°56.4'	121°25.6'	N 1°56.5'	149°43.5'	9.0'	N 13°17.6'	8.6'	58.5'
21	311°58.8'	136°25.8'	N 1°55.6'	164°11.4'	9.0'	N 13°09.0'	8.7'	58.5'
22	327°01.3'	151°26.1'	N 1°54.6'	178°39.4'	9.1'	N 13°00.3'	8.8'	58.4'
23	342°03.8'	166°26.3'	N 1°53.6'	193°07.5'	9.1'	N 12°51.6'	8.8'	58.4'

Mon Sep 18, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 1.0' SD = 15.9'		SD = 15.9'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	357°06.2'	181°26.5'	N 1°52.7'	207°35.6'	9.2'	N 12°42.7'	8.9'	58.4'
1	12°08.7'	196°26.7'	N 1°51.7'	222°03.8'	9.2'	N 12°33.8'	9.0'	58.4'
2	27°11.1'	211°26.9'	N 1°50.7'	236°32.0'	9.3'	N 12°24.9'	9.0'	58.4'
3	42°13.6'	226°27.2'	N 1°49.8'	251°00.3'	9.4'	N 12°15.8'	9.1'	58.4'
4	57°16.1'	241°27.4'	N 1°48.8'	265°28.7'	9.4'	N 12°06.7'	9.2'	58.3'
5	72°18.5'	256°27.6'	N 1°47.8'	279°57.1'	9.5'	N 11°57.6'	9.2'	58.3'
6	87°21.0'	271°27.8'	N 1°46.9'	294°25.6'	9.5'	N 11°48.3'	9.3'	58.3'
7	102°23.5'	286°28.1'	N 1°45.9'	308°54.1'	9.6'	N 11°39.1'	9.4'	58.3'
8	117°25.9'	301°28.3'	N 1°44.9'	323°22.7'	9.6'	N 11°29.7'	9.4'	58.3'
9	132°28.4'	316°28.5'	N 1°44.0'	337°51.3'	9.7'	N 11°20.3'	9.5'	58.2'
10	147°30.9'	331°28.7'	N 1°43.0'	352°20.1'	9.8'	N 11°10.8'	9.5'	58.2'
11	162°33.3'	346°28.9'	N 1°42.0'	6°48.8'	9.8'	N 11°01.3'	9.6'	58.2'
12	177°35.8'	1°29.2'	N 1°41.1'	21°17.6'	9.9'	N 10°51.7'	9.6'	58.2'
13	192°38.2'	16°29.4'	N 1°40.1'	35°46.5'	9.9'	N 10°42.1'	9.7'	58.2'
14	207°40.7'	31°29.6'	N 1°39.1'	50°15.4'	10.0'	N 10°32.4'	9.7'	58.2'
15	222°43.2'	46°29.8'	N 1°38.2'	64°44.4'	10.0'	N 10°22.6'	9.8'	58.1'
16	237°45.6'	61°30.1'	N 1°37.2'	79°13.5'	10.1'	N 10°12.8'	9.8'	58.1'
17	252°48.1'	76°30.3'	N 1°36.2'	93°42.6'	10.2'	N 10°03.0'	9.9'	58.1'
18	267°50.6'	91°30.5'	N 1°35.2'	108°11.7'	10.2'	N 9°53.1'	9.9'	58.1'
19	282°53.0'	106°30.7'	N 1°34.3'	122°40.9'	10.3'	N 9°43.1'	10.0'	58.1'
20	297°55.5'	121°30.9'	N 1°33.3'	137°10.2'	10.3'	N 9°33.1'	10.0'	58.0'
21	312°58.0'	136°31.2'	N 1°32.3'	151°39.5'	10.4'	N 9°23.1'	10.1'	58.0'
22	328°00.4'	151°31.4'	N 1°31.4'	166°08.9'	10.4'	N 9°13.0'	10.1'	58.0'
23	343°02.9'	166°31.6'	N 1°30.4'	180°38.3'	10.5'	N 9°02.9'	10.2'	58.0'

Tue Sep 19, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 1.0' SD = 15.9'		SD = 15.7'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	358°05.4'	181°31.8'	N 1°29.4'	195°07.8'	10.5'	N 8°52.7'	10.2'	57.9'
1	13°07.8'	196°32.0'	N 1°28.5'	209°37.3'	10.6'	N 8°42.5'	10.3'	57.9'
2	28°10.3'	211°32.3'	N 1°27.5'	224°06.9'	10.6'	N 8°32.3'	10.3'	57.9'
3	43°12.7'	226°32.5'	N 1°26.5'	238°36.5'	10.7'	N 8°22.0'	10.3'	57.9'
4	58°15.2'	241°32.7'	N 1°25.6'	253°06.2'	10.7'	N 8°11.6'	10.4'	57.9'
5	73°17.7'	256°32.9'	N 1°24.6'	267°36.0'	10.8'	N 8°01.3'	10.4'	57.8'
6	88°20.1'	271°33.2'	N 1°23.6'	282°05.8'	10.8'	N 7°50.9'	10.4'	57.8'
7	103°22.6'	286°33.4'	N 1°22.6'	296°35.6'	10.9'	N 7°40.4'	10.5'	57.8'
8	118°25.1'	301°33.6'	N 1°21.7'	311°05.5'	10.9'	N 7°30.0'	10.5'	57.8'
9	133°27.5'	316°33.8'	N 1°20.7'	325°35.5'	11.0'	N 7°19.5'	10.5'	57.7'
10	148°30.0'	331°34.0'	N 1°19.7'	340°05.5'	11.0'	N 7°08.9'	10.6'	57.7'
11	163°32.5'	346°34.3'	N 1°18.8'	354°35.5'	11.1'	N 6°58.4'	10.6'	57.7'
12	178°34.9'	1°34.5'	N 1°17.8'	9°05.6'	11.1'	N 6°47.8'	10.6'	57.7'
13	193°37.4'	16°34.7'	N 1°16.8'	23°35.7'	11.2'	N 6°37.1'	10.6'	57.7'
14	208°39.9'	31°34.9'	N 1°15.9'	38°05.9'	11.2'	N 6°26.5'	10.7'	57.6'
15	223°42.3'	46°35.2'	N 1°14.9'	52°36.2'	11.3'	N 6°15.8'	10.7'	57.6'
16	238°44.8'	61°35.4'	N 1°13.9'	67°06.5'	11.3'	N 6°05.1'	10.7'	57.6'
17	253°47.2'	76°35.6'	N 1°12.9'	81°36.8'	11.4'	N 5°54.4'	10.7'	57.6'
18	268°49.7'	91°35.8'	N 1°12.0'	96°07.2'	11.4'	N 5°43.7'	10.8'	57.5'
19	283°52.2'	106°36.0'	N 1°11.0'	110°37.6'	11.5'	N 5°32.9'	10.8'	57.5'
20	298°54.6'	121°36.3'	N 1°10.0'	125°08.1'	11.5'	N 5°22.1'	10.8'	57.5'
21	313°57.1'	136°36.5'	N 1°09.1'	139°38.6'	11.6'	N 5°11.3'	10.8'	57.5'
22	328°59.6'	151°36.7'	N 1°08.1'	154°09.1'	11.6'	N 5°00.5'	10.8'	57.4'
23	344°02.0'	166°36.9'	N 1°07.1'	168°39.8'	11.6'	N 4°49.7'	10.9'	57.4'

Wed Sep 20, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 1.0' SD = 15.9'		SD = 15.6'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	359°04.5'	181°37.1'	N 1°06.1'	183°10.4'	11.7'	N 4°38.8'	10.9'	57.4'
1	14°07.0'	196°37.4'	N 1°05.2'	197°41.1'	11.7'	N 4°27.9'	10.9'	57.4'
2	29°09.4'	211°37.6'	N 1°04.2'	212°11.8'	11.8'	N 4°17.0'	10.9'	57.3'
3	44°11.9'	226°37.8'	N 1°03.2'	226°42.6'	11.8'	N 4°06.1'	10.9'	57.3'
4	59°14.3'	241°38.0'	N 1°02.3'	241°13.4'	11.9'	N 3°55.2'	10.9'	57.3'
5	74°16.8'	256°38.2'	N 1°01.3'	255°44.3'	11.9'	N 3°44.3'	10.9'	57.3'
6	89°19.3'	271°38.5'	N 1°00.3'	270°15.2'	11.9'	N 3°33.4'	10.9'	57.3'
7	104°21.7'	286°38.7'	N 0°59.4'	284°46.1'	12.0'	N 3°22.4'	10.9'	57.2'
8	119°24.2'	301°38.9'	N 0°58.4'	299°17.1'	12.0'	N 3°11.5'	11.0'	57.2'
9	134°26.7'	316°39.1'	N 0°57.4'	313°48.1'	12.1'	N 3°00.6'	11.0'	57.2'
10	149°29.1'	331°39.4'	N 0°56.4'	328°19.1'	12.1'	N 2°49.6'	11.0'	57.2'
11	164°31.6'	346°39.6'	N 0°55.5'	342°50.2'	12.1'	N 2°38.6'	11.0'	57.1'
12	179°34.1'	1°39.8'	N 0°54.5'	357°21.4'	12.2'	N 2°27.7'	11.0'	57.1'
13	194°36.5'	16°40.0'	N 0°53.5'	11°52.5'	12.2'	N 2°16.7'	11.0'	57.1'
14	209°39.0'	31°40.2'	N 0°52.6'	26°23.7'	12.2'	N 2°05.7'	11.0'	57.1'
15	224°41.5'	46°40.5'	N 0°51.6'	40°55.0'	12.3'	N 1°54.7'	11.0'	57.0'
16	239°43.9'	61°40.7'	N 0°50.6'	55°26.2'	12.3'	N 1°43.8'	11.0'	57.0'
17	254°46.4'	76°40.9'	N 0°49.6'	69°57.5'	12.3'	N 1°32.8'	11.0'	57.0'
18	269°48.8'	91°41.1'	N 0°48.7'	84°28.9'	12.4'	N 1°21.8'	11.0'	57.0'
19	284°51.3'	106°41.3'	N 0°47.7'	99°00.2'	12.4'	N 1°10.9'	11.0'	56.9'
20	299°53.8'	121°41.6'	N 0°46.7'	113°31.7'	12.4'	N 0°59.9'	11.0'	56.9'
21	314°56.2'	136°41.8'	N 0°45.8'	128°03.1'	12.5'	N 0°49.0'	11.0'	56.9'
22	329°58.7'	151°42.0'	N 0°44.8'	142°34.6'	12.5'	N 0°38.0'	10.9'	56.8'
23	345°01.2'	166°42.2'	N 0°43.8'	157°06.1'	12.5'	N 0°27.1'	10.9'	56.8'

Thu Sep 21, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 1.0' SD = 15.9'		SD = 15.4'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	0°03.6'	181°42.4'	N 0°42.8'	171°37.6'	12.6'	N 0°16.1'	10.9'	56.8'
1	15°06.1'	196°42.7'	N 0°41.9'	186°09.1'	12.6'	N 0°05.2'	10.9'	56.8'
2	30°08.6'	211°42.9'	N 0°40.9'	200°40.7'	12.6'	S 0°05.7'	10.9'	56.7'
3	45°11.0'	226°43.1'	N 0°39.9'	215°12.3'	12.6'	S 0°16.6'	10.9'	56.7'
4	60°13.5'	241°43.3'	N 0°38.9'	229°44.0'	12.7'	S 0°27.5'	10.9'	56.7'
5	75°15.9'	256°43.5'	N 0°38.0'	244°15.7'	12.7'	S 0°38.4'	10.9'	56.7'
6	90°18.4'	271°43.8'	N 0°37.0'	258°47.4'	12.7'	S 0°49.3'	10.9'	56.6'
7	105°20.9'	286°44.0'	N 0°36.0'	273°19.1'	12.8'	S 1°00.1'	10.8'	56.6'
8	120°23.3'	301°44.2'	N 0°35.1'	287°50.8'	12.8'	S 1°11.0'	10.8'	56.6'
9	135°25.8'	316°44.4'	N 0°34.1'	302°22.6'	12.8'	S 1°21.8'	10.8'	56.6'
10	150°28.3'	331°44.6'	N 0°33.1'	316°54.4'	12.8'	S 1°32.6'	10.8'	56.5'
11	165°30.7'	346°44.9'	N 0°32.1'	331°26.2'	12.8'	S 1°43.4'	10.8'	56.5'
12	180°33.2'	1°45.1'	N 0°31.2'	345°58.1'	12.9'	S 1°54.2'	10.8'	56.5'
13	195°35.7'	16°45.3'	N 0°30.2'	0°30.0'	12.9'	S 2°04.9'	10.7'	56.5'
14	210°38.1'	31°45.5'	N 0°29.2'	15°01.8'	12.9'	S 2°15.7'	10.7'	56.4'
15	225°40.6'	46°45.7'	N 0°28.3'	29°33.8'	12.9'	S 2°26.4'	10.7'	56.4'
16	240°43.1'	61°46.0'	N 0°27.3'	44°05.7'	13.0'	S 2°37.1'	10.7'	56.4'
17	255°45.5'	76°46.2'	N 0°26.3'	58°37.7'	13.0'	S 2°47.8'	10.6'	56.4'
18	270°48.0'	91°46.4'	N 0°25.3'	73°09.6'	13.0'	S 2°58.4'	10.6'	56.3'
19	285°50.4'	106°46.6'	N 0°24.4'	87°41.6'	13.0'	S 3°09.0'	10.6'	56.3'
20	300°52.9'	121°46.8'	N 0°23.4'	102°13.6'	13.0'	S 3°19.6'	10.6'	56.3'
21	315°55.4'	136°47.1'	N 0°22.4'	116°45.7'	13.1'	S 3°30.2'	10.5'	56.3'
22	330°57.8'	151°47.3'	N 0°21.4'	131°17.7'	13.1'	S 3°40.8'	10.5'	56.2'
23	346°00.3'	166°47.5'	N 0°20.5'	145°49.8'	13.1'	S 3°51.3'	10.5'	56.2'

Fri Sep 22, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 1.0' SD = 15.9'		SD = 15.3'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	1°02.8'	181°47.7'	N 0°19.5'	160°21.9'	13.1'	S 4°01.8'	10.5'	56.2'
1	16°05.2'	196°47.9'	N 0°18.5'	174°54.0'	13.1'	S 4°12.2'	10.4'	56.2'
2	31°07.7'	211°48.2'	N 0°17.6'	189°26.1'	13.1'	S 4°22.7'	10.4'	56.1'
3	46°10.2'	226°48.4'	N 0°16.6'	203°58.3'	13.1'	S 4°33.1'	10.4'	56.1'
4	61°12.6'	241°48.6'	N 0°15.6'	218°30.4'	13.2'	S 4°43.4'	10.3'	56.1'
5	76°15.1'	256°48.8'	N 0°14.6'	233°02.6'	13.2'	S 4°53.8'	10.3'	56.1'
6	91°17.5'	271°49.0'	N 0°13.7'	247°34.7'	13.2'	S 5°04.1'	10.3'	56.0'
7	106°20.0'	286°49.3'	N 0°12.7'	262°06.9'	13.2'	S 5°14.4'	10.2'	56.0'
8	121°22.5'	301°49.5'	N 0°11.7'	276°39.1'	13.2'	S 5°24.6'	10.2'	56.0'
9	136°24.9'	316°49.7'	N 0°10.7'	291°11.4'	13.2'	S 5°34.8'	10.2'	56.0'
10	151°27.4'	331°49.9'	N 0°09.8'	305°43.6'	13.2'	S 5°45.0'	10.1'	55.9'
11	166°29.9'	346°50.1'	N 0°08.8'	320°15.8'	13.2'	S 5°55.1'	10.1'	55.9'
12	181°32.3'	1°50.4'	N 0°07.8'	334°48.1'	13.3'	S 6°05.2'	10.1'	55.9'
13	196°34.8'	16°50.6'	N 0°06.9'	349°20.3'	13.3'	S 6°15.3'	10.0'	55.9'
14	211°37.3'	31°50.8'	N 0°05.9'	3°52.6'	13.3'	S 6°25.3'	10.0'	55.8'
15	226°39.7'	46°51.0'	N 0°04.9'	18°24.9'	13.3'	S 6°35.3'	9.9'	55.8'
16	241°42.2'	61°51.2'	N 0°03.9'	32°57.2'	13.3'	S 6°45.2'	9.9'	55.8'
17	256°44.7'	76°51.5'	N 0°03.0'	47°29.5'	13.3'	S 6°55.1'	9.9'	55.8'
18	271°47.1'	91°51.7'	N 0°02.0'	62°01.8'	13.3'	S 7°05.0'	9.8'	55.7'
19	286°49.6'	106°51.9'	N 0°01.0'	76°34.1'	13.3'	S 7°14.8'	9.8'	55.7'
20	301°52.0'	121°52.1'	N 0°00.0'	91°06.4'	13.3'	S 7°24.6'	9.7'	55.7'
21	316°54.5'	136°52.3'	S 0°00.9'	105°38.7'	13.3'	S 7°34.3'	9.7'	55.7'
22	331°57.0'	151°52.5'	S 0°01.9'	120°11.0'	13.3'	S 7°44.0'	9.7'	55.6'
23	346°59.4'	166°52.8'	S 0°02.9'	134°43.4'	13.3'	S 7°53.7'	9.6'	55.6'

Sat Sep 23, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 1.0' SD = 15.9'		SD = 15.1'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	2°01.9'	181°53.0'	S 0°03.9'	149°15.7'	13.3'	S 8°03.3'	9.6'	55.6'
1	17°04.4'	196°53.2'	S 0°04.8'	163°48.0'	13.3'	S 8°12.9'	9.5'	55.6'
2	32°06.8'	211°53.4'	S 0°05.8'	178°20.4'	13.3'	S 8°22.4'	9.5'	55.5'
3	47°09.3'	226°53.6'	S 0°06.8'	192°52.7'	13.4'	S 8°31.8'	9.4'	55.5'
4	62°11.8'	241°53.9'	S 0°07.7'	207°25.1'	13.4'	S 8°41.3'	9.4'	55.5'
5	77°14.2'	256°54.1'	S 0°08.7'	221°57.4'	13.4'	S 8°50.6'	9.3'	55.5'
6	92°16.7'	271°54.3'	S 0°09.7'	236°29.8'	13.4'	S 8°60.0'	9.3'	55.4'
7	107°19.1'	286°54.5'	S 0°10.7'	251°02.2'	13.4'	S 9°09.2'	9.2'	55.4'
8	122°21.6'	301°54.7'	S 0°11.6'	265°34.5'	13.4'	S 9°18.5'	9.2'	55.4'
9	137°24.1'	316°54.9'	S 0°12.6'	280°06.9'	13.4'	S 9°27.6'	9.1'	55.4'
10	152°26.5'	331°55.2'	S 0°13.6'	294°39.2'	13.4'	S 9°36.8'	9.1'	55.4'
11	167°29.0'	346°55.4'	S 0°14.6'	309°11.6'	13.4'	S 9°45.8'	9.0'	55.3'
12	182°31.5'	1°55.6'	S 0°15.5'	323°43.9'	13.4'	S 9°54.9'	9.0'	55.3'
13	197°33.9'	16°55.8'	S 0°16.5'	338°16.3'	13.4'	S 10°03.8'	8.9'	55.3'
14	212°36.4'	31°56.0'	S 0°17.5'	352°48.7'	13.4'	S 10°12.8'	8.9'	55.3'
15	227°38.9'	46°56.3'	S 0°18.5'	7°21.0'	13.4'	S 10°21.6'	8.8'	55.2'
16	242°41.3'	61°56.5'	S 0°19.4'	21°53.4'	13.4'	S 10°30.4'	8.8'	55.2'
17	257°43.8'	76°56.7'	S 0°20.4'	36°25.7'	13.3'	S 10°39.2'	8.7'	55.2'
18	272°46.3'	91°56.9'	S 0°21.4'	50°58.1'	13.3'	S 10°47.9'	8.6'	55.2'
19	287°48.7'	106°57.1'	S 0°22.3'	65°30.4'	13.3'	S 10°56.5'	8.6'	55.2'
20	302°51.2'	121°57.3'	S 0°23.3'	80°02.8'	13.3'	S 11°05.1'	8.5'	55.1'
21	317°53.6'	136°57.6'	S 0°24.3'	94°35.1'	13.3'	S 11°13.6'	8.5'	55.1'
22	332°56.1'	151°57.8'	S 0°25.3'	109°07.4'	13.3'	S 11°22.1'	8.4'	55.1'
23	347°58.6'	166°58.0'	S 0°26.2'	123°39.7'	13.3'	S 11°30.5'	8.4'	55.1'

Sun Sep 24, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 1.0' SD = 15.9'		SD = 15.0'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	3°01.0'	181°58.2'	S 0°27.2'	138°12.1'	13.3'	S 11°38.9'	8.3'	55.1'
1	18°03.5'	196°58.4'	S 0°28.2'	152°44.4'	13.3'	S 11°47.2'	8.2'	55.0'
2	33°06.0'	211°58.6'	S 0°29.2'	167°16.7'	13.3'	S 11°55.4'	8.2'	55.0'
3	48°08.4'	226°58.9'	S 0°30.1'	181°49.0'	13.3'	S 12°03.6'	8.1'	55.0'
4	63°10.9'	241°59.1'	S 0°31.1'	196°21.3'	13.3'	S 12°11.7'	8.1'	55.0'
5	78°13.4'	256°59.3'	S 0°32.1'	210°53.6'	13.3'	S 12°19.8'	8.0'	55.0'
6	93°15.8'	271°59.5'	S 0°33.1'	225°25.9'	13.3'	S 12°27.8'	7.9'	54.9'
7	108°18.3'	286°59.7'	S 0°34.0'	239°58.2'	13.3'	S 12°35.7'	7.9'	54.9'
8	123°20.8'	301°59.9'	S 0°35.0'	254°30.4'	13.3'	S 12°43.6'	7.8'	54.9'
9	138°23.2'	317°00.2'	S 0°36.0'	269°02.7'	13.3'	S 12°51.4'	7.7'	54.9'
10	153°25.7'	332°00.4'	S 0°37.0'	283°34.9'	13.2'	S 12°59.1'	7.7'	54.9'
11	168°28.1'	347°00.6'	S 0°37.9'	298°07.2'	13.2'	S 13°06.8'	7.6'	54.9'
12	183°30.6'	2°00.8'	S 0°38.9'	312°39.4'	13.2'	S 13°14.4'	7.6'	54.8'
13	198°33.1'	17°01.0'	S 0°39.9'	327°11.6'	13.2'	S 13°22.0'	7.5'	54.8'
14	213°35.5'	32°01.2'	S 0°40.8'	341°43.9'	13.2'	S 13°29.5'	7.4'	54.8'
15	228°38.0'	47°01.5'	S 0°41.8'	356°16.1'	13.2'	S 13°36.9'	7.4'	54.8'
16	243°40.5'	62°01.7'	S 0°42.8'	10°48.3'	13.2'	S 13°44.3'	7.3'	54.8'
17	258°42.9'	77°01.9'	S 0°43.8'	25°20.4'	13.2'	S 13°51.6'	7.2'	54.8'
18	273°45.4'	92°02.1'	S 0°44.7'	39°52.6'	13.2'	S 13°58.8'	7.2'	54.7'
19	288°47.9'	107°02.3'	S 0°45.7'	54°24.8'	13.2'	S 14°05.9'	7.1'	54.7'
20	303°50.3'	122°02.5'	S 0°46.7'	68°56.9'	13.1'	S 14°13.0'	7.0'	54.7'
21	318°52.8'	137°02.8'	S 0°47.7'	83°29.1'	13.1'	S 14°20.0'	7.0'	54.7'
22	333°55.2'	152°03.0'	S 0°48.6'	98°01.2'	13.1'	S 14°27.0'	6.9'	54.7'
23	348°57.7'	167°03.2'	S 0°49.6'	112°33.3'	13.1'	S 14°33.9'	6.8'	54.7'

Mon Sep 25, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 1.0' SD = 15.9'		SD = 14.9'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	4°00.2'	182°03.4'	S 0°50.6'	127°05.4'	13.1'	S 14°40.7'	6.7'	54.6'
1	19°02.6'	197°03.6'	S 0°51.6'	141°37.5'	13.1'	S 14°47.4'	6.7'	54.6'
2	34°05.1'	212°03.8'	S 0°52.5'	156°09.6'	13.1'	S 14°54.1'	6.6'	54.6'
3	49°07.6'	227°04.1'	S 0°53.5'	170°41.7'	13.1'	S 15°00.7'	6.5'	54.6'
4	64°10.0'	242°04.3'	S 0°54.5'	185°13.7'	13.0'	S 15°07.2'	6.5'	54.6'
5	79°12.5'	257°04.5'	S 0°55.5'	199°45.8'	13.0'	S 15°13.7'	6.4'	54.6'
6	94°15.0'	272°04.7'	S 0°56.4'	214°17.8'	13.0'	S 15°20.1'	6.3'	54.6'
7	109°17.4'	287°04.9'	S 0°57.4'	228°49.8'	13.0'	S 15°26.4'	6.2'	54.5'
8	124°19.9'	302°05.1'	S 0°58.4'	243°21.8'	13.0'	S 15°32.7'	6.2'	54.5'
9	139°22.4'	317°05.3'	S 0°59.4'	257°53.8'	13.0'	S 15°38.8'	6.1'	54.5'
10	154°24.8'	332°05.6'	S 1°00.3'	272°25.8'	13.0'	S 15°44.9'	6.0'	54.5'
11	169°27.3'	347°05.8'	S 1°01.3'	286°57.8'	12.9'	S 15°50.9'	5.9'	54.5'
12	184°29.7'	2°06.0'	S 1°02.3'	301°29.7'	12.9'	S 15°56.9'	5.9'	54.5'
13	199°32.2'	17°06.2'	S 1°03.2'	316°01.7'	12.9'	S 16°02.8'	5.8'	54.5'
14	214°34.7'	32°06.4'	S 1°04.2'	330°33.6'	12.9'	S 16°08.6'	5.7'	54.5'
15	229°37.1'	47°06.6'	S 1°05.2'	345°05.5'	12.9'	S 16°14.3'	5.6'	54.4'
16	244°39.6'	62°06.9'	S 1°06.2'	359°37.4'	12.9'	S 16°19.9'	5.6'	54.4'
17	259°42.1'	77°07.1'	S 1°07.1'	14°09.3'	12.9'	S 16°25.5'	5.5'	54.4'
18	274°44.5'	92°07.3'	S 1°08.1'	28°41.1'	12.8'	S 16°31.0'	5.4'	54.4'
19	289°47.0'	107°07.5'	S 1°09.1'	43°13.0'	12.8'	S 16°36.4'	5.3'	54.4'
20	304°49.5'	122°07.7'	S 1°10.1'	57°44.8'	12.8'	S 16°41.8'	5.3'	54.4'
21	319°51.9'	137°07.9'	S 1°11.0'	72°16.6'	12.8'	S 16°47.0'	5.2'	54.4'
22	334°54.4'	152°08.1'	S 1°12.0'	86°48.4'	12.8'	S 16°52.2'	5.1'	54.4'
23	349°56.9'	167°08.4'	S 1°13.0'	101°20.2'	12.8'	S 16°57.3'	5.0'	54.4'

Tue Sep 26, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 1.0' SD = 16.0'		SD = 14.8'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	4°59.3'	182°08.6'	S 1°14.0'	115°52.0'	12.8'	S 17°02.4'	5.0'	54.4'
1	20°01.8'	197°08.8'	S 1°14.9'	130°23.7'	12.7'	S 17°07.3'	4.9'	54.3'
2	35°04.2'	212°09.0'	S 1°15.9'	144°55.5'	12.7'	S 17°12.2'	4.8'	54.3'
3	50°06.7'	227°09.2'	S 1°16.9'	159°27.2'	12.7'	S 17°17.0'	4.7'	54.3'
4	65°09.2'	242°09.4'	S 1°17.9'	173°58.9'	12.7'	S 17°21.7'	4.6'	54.3'
5	80°11.6'	257°09.6'	S 1°18.8'	188°30.6'	12.7'	S 17°26.3'	4.6'	54.3'
6	95°14.1'	272°09.8'	S 1°19.8'	203°02.3'	12.7'	S 17°30.9'	4.5'	54.3'
7	110°16.6'	287°10.1'	S 1°20.8'	217°34.0'	12.6'	S 17°35.4'	4.4'	54.3'
8	125°19.0'	302°10.3'	S 1°21.7'	232°05.6'	12.6'	S 17°39.8'	4.3'	54.3'
9	140°21.5'	317°10.5'	S 1°22.7'	246°37.3'	12.6'	S 17°44.1'	4.2'	54.3'
10	155°24.0'	332°10.7'	S 1°23.7'	261°08.9'	12.6'	S 17°48.3'	4.1'	54.3'
11	170°26.4'	347°10.9'	S 1°24.7'	275°40.5'	12.6'	S 17°52.5'	4.1'	54.3'
12	185°28.9'	2°11.1'	S 1°25.6'	290°12.1'	12.6'	S 17°56.5'	4.0'	54.3'
13	200°31.3'	17°11.3'	S 1°26.6'	304°43.6'	12.6'	S 18°00.5'	3.9'	54.3'
14	215°33.8'	32°11.6'	S 1°27.6'	319°15.2'	12.5'	S 18°04.4'	3.8'	54.3'
15	230°36.3'	47°11.8'	S 1°28.6'	333°46.7'	12.5'	S 18°08.2'	3.7'	54.3'
16	245°38.7'	62°12.0'	S 1°29.5'	348°18.3'	12.5'	S 18°12.0'	3.7'	54.3'
17	260°41.2'	77°12.2'	S 1°30.5'	2°49.8'	12.5'	S 18°15.6'	3.6'	54.3'
18	275°43.7'	92°12.4'	S 1°31.5'	17°21.3'	12.5'	S 18°19.2'	3.5'	54.2'
19	290°46.1'	107°12.6'	S 1°32.5'	31°52.7'	12.5'	S 18°22.7'	3.4'	54.2'
20	305°48.6'	122°12.8'	S 1°33.4'	46°24.2'	12.4'	S 18°26.1'	3.3'	54.2'
21	320°51.1'	137°13.0'	S 1°34.4'	60°55.7'	12.4'	S 18°29.4'	3.2'	54.2'
22	335°53.5'	152°13.3'	S 1°35.4'	75°27.1'	12.4'	S 18°32.6'	3.1'	54.2'
23	350°56.0'	167°13.5'	S 1°36.3'	89°58.5'	12.4'	S 18°35.8'	3.1'	54.2'

Wed Sep 27, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 1.0' SD = 16.0'		SD = 14.8'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	5°58.5'	182°13.7'	S 1°37.3'	104°29.9'	12.4'	S 18°38.8'	3.0'	54.2'
1	21°00.9'	197°13.9'	S 1°38.3'	119°01.3'	12.4'	S 18°41.8'	2.9'	54.2'
2	36°03.4'	212°14.1'	S 1°39.3'	133°32.7'	12.4'	S 18°44.7'	2.8'	54.2'
3	51°05.8'	227°14.3'	S 1°40.2'	148°04.0'	12.3'	S 18°47.5'	2.7'	54.2'
4	66°08.3'	242°14.5'	S 1°41.2'	162°35.4'	12.3'	S 18°50.2'	2.6'	54.2'
5	81°10.8'	257°14.7'	S 1°42.2'	177°06.7'	12.3'	S 18°52.9'	2.5'	54.2'
6	96°13.2'	272°15.0'	S 1°43.2'	191°38.0'	12.3'	S 18°55.4'	2.5'	54.2'
7	111°15.7'	287°15.2'	S 1°44.1'	206°09.3'	12.3'	S 18°57.9'	2.4'	54.2'
8	126°18.2'	302°15.4'	S 1°45.1'	220°40.6'	12.3'	S 19°00.3'	2.3'	54.2'
9	141°20.6'	317°15.6'	S 1°46.1'	235°11.9'	12.3'	S 19°02.5'	2.2'	54.2'
10	156°23.1'	332°15.8'	S 1°47.1'	249°43.2'	12.2'	S 19°04.7'	2.1'	54.2'
11	171°25.6'	347°16.0'	S 1°48.0'	264°14.4'	12.2'	S 19°06.9'	2.0'	54.2'
12	186°28.0'	2°16.2'	S 1°49.0'	278°45.6'	12.2'	S 19°08.9'	1.9'	54.2'
13	201°30.5'	17°16.4'	S 1°50.0'	293°16.8'	12.2'	S 19°10.8'	1.8'	54.2'
14	216°33.0'	32°16.6'	S 1°50.9'	307°48.0'	12.2'	S 19°12.7'	1.8'	54.2'
15	231°35.4'	47°16.9'	S 1°51.9'	322°19.2'	12.2'	S 19°14.4'	1.7'	54.2'
16	246°37.9'	62°17.1'	S 1°52.9'	336°50.4'	12.2'	S 19°16.1'	1.6'	54.2'
17	261°40.3'	77°17.3'	S 1°53.9'	351°21.6'	12.2'	S 19°17.7'	1.5'	54.2'
18	276°42.8'	92°17.5'	S 1°54.8'	5°52.7'	12.1'	S 19°19.2'	1.4'	54.2'
19	291°45.3'	107°17.7'	S 1°55.8'	20°23.9'	12.1'	S 19°20.6'	1.3'	54.3'
20	306°47.7'	122°17.9'	S 1°56.8'	34°55.0'	12.1'	S 19°21.9'	1.2'	54.3'
21	321°50.2'	137°18.1'	S 1°57.8'	49°26.1'	12.1'	S 19°23.1'	1.1'	54.3'
22	336°52.7'	152°18.3'	S 1°58.7'	63°57.2'	12.1'	S 19°24.3'	1.0'	54.3'
23	351°55.1'	167°18.5'	S 1°59.7'	78°28.3'	12.1'	S 19°25.3'	1.0'	54.3'

Thu Sep 28, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 1.0' SD = 16.0'		SD = 14.8'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	6°57.6'	182°18.8'	S 2°00.7'	92°59.4'	12.1'	S 19°26.3'	0.9'	54.3'
1	22°00.1'	197°19.0'	S 2°01.6'	107°30.4'	12.1'	S 19°27.1'	0.8'	54.3'
2	37°02.5'	212°19.2'	S 2°02.6'	122°01.5'	12.0'	S 19°27.9'	0.7'	54.3'
3	52°05.0'	227°19.4'	S 2°03.6'	136°32.5'	12.0'	S 19°28.6'	0.6'	54.3'
4	67°07.4'	242°19.6'	S 2°04.6'	151°03.6'	12.0'	S 19°29.2'	0.5'	54.3'
5	82°09.9'	257°19.8'	S 2°05.5'	165°34.6'	12.0'	S 19°29.7'	0.4'	54.3'
6	97°12.4'	272°20.0'	S 2°06.5'	180°05.6'	12.0'	S 19°30.1'	0.3'	54.3'
7	112°14.8'	287°20.2'	S 2°07.5'	194°36.6'	12.0'	S 19°30.5'	0.2'	54.3'
8	127°17.3'	302°20.4'	S 2°08.5'	209°07.6'	12.0'	S 19°30.7'	0.1'	54.3'
9	142°19.8'	317°20.6'	S 2°09.4'	223°38.6'	12.0'	S 19°30.8'	0.1'	54.3'
10	157°22.2'	332°20.8'	S 2°10.4'	238°09.5'	12.0'	S 19°30.9'	0.0'	54.3'
11	172°24.7'	347°21.1'	S 2°11.4'	252°40.5'	11.9'	S 19°30.9'	0.1'	54.4'
12	187°27.2'	2°21.3'	S 2°12.3'	267°11.4'	11.9'	S 19°30.7'	0.2'	54.4'
13	202°29.6'	17°21.5'	S 2°13.3'	281°42.4'	11.9'	S 19°30.5'	0.3'	54.4'
14	217°32.1'	32°21.7'	S 2°14.3'	296°13.3'	11.9'	S 19°30.2'	0.4'	54.4'
15	232°34.6'	47°21.9'	S 2°15.3'	310°44.2'	11.9'	S 19°29.8'	0.5'	54.4'
16	247°37.0'	62°22.1'	S 2°16.2'	325°15.1'	11.9'	S 19°29.3'	0.6'	54.4'
17	262°39.5'	77°22.3'	S 2°17.2'	339°46.0'	11.9'	S 19°28.7'	0.7'	54.4'
18	277°41.9'	92°22.5'	S 2°18.2'	354°16.9'	11.9'	S 19°28.1'	0.8'	54.4'
19	292°44.4'	107°22.7'	S 2°19.1'	8°47.8'	11.9'	S 19°27.3'	0.9'	54.4'
20	307°46.9'	122°22.9'	S 2°20.1'	23°18.7'	11.9'	S 19°26.5'	0.9'	54.4'
21	322°49.3'	137°23.1'	S 2°21.1'	37°49.6'	11.9'	S 19°25.5'	1.0'	54.5'
22	337°51.8'	152°23.4'	S 2°22.1'	52°20.4'	11.9'	S 19°24.5'	1.1'	54.5'
23	352°54.3'	167°23.6'	S 2°23.0'	66°51.3'	11.8'	S 19°23.3'	1.2'	54.5'

Fri Sep 29, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 1.0' SD = 16.0'		SD = 14.9'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	7°56.7'	182°23.8'	S 2°24.0'	81°22.1'	11.8'	S 19°22.1'	1.3'	54.5'
1	22°59.2'	197°24.0'	S 2°25.0'	95°53.0'	11.8'	S 19°20.8'	1.4'	54.5'
2	38°01.7'	212°24.2'	S 2°26.0'	110°23.8'	11.8'	S 19°19.4'	1.5'	54.5'
3	53°04.1'	227°24.4'	S 2°26.9'	124°54.6'	11.8'	S 19°17.9'	1.6'	54.5'
4	68°06.6'	242°24.6'	S 2°27.9'	139°25.4'	11.8'	S 19°16.3'	1.7'	54.5'
5	83°09.1'	257°24.8'	S 2°28.9'	153°56.2'	11.8'	S 19°14.6'	1.8'	54.6'
6	98°11.5'	272°25.0'	S 2°29.8'	168°27.1'	11.8'	S 19°12.8'	1.9'	54.6'
7	113°14.0'	287°25.2'	S 2°30.8'	182°57.9'	11.8'	S 19°11.0'	2.0'	54.6'
8	128°16.4'	302°25.4'	S 2°31.8'	197°28.6'	11.8'	S 19°09.0'	2.0'	54.6'
9	143°18.9'	317°25.6'	S 2°32.8'	211°59.4'	11.8'	S 19°07.0'	2.1'	54.6'
10	158°21.4'	332°25.8'	S 2°33.7'	226°30.2'	11.8'	S 19°04.8'	2.2'	54.6'
11	173°23.8'	347°26.0'	S 2°34.7'	241°01.0'	11.8'	S 19°02.6'	2.3'	54.7'
12	188°26.3'	2°26.3'	S 2°35.7'	255°31.8'	11.8'	S 19°00.3'	2.4'	54.7'
13	203°28.8'	17°26.5'	S 2°36.6'	270°02.5'	11.8'	S 18°57.9'	2.5'	54.7'
14	218°31.2'	32°26.7'	S 2°37.6'	284°33.3'	11.8'	S 18°55.4'	2.6'	54.7'
15	233°33.7'	47°26.9'	S 2°38.6'	299°04.1'	11.8'	S 18°52.8'	2.7'	54.7'
16	248°36.2'	62°27.1'	S 2°39.6'	313°34.8'	11.8'	S 18°50.1'	2.8'	54.7'
17	263°38.6'	77°27.3'	S 2°40.5'	328°05.6'	11.7'	S 18°47.3'	2.9'	54.8'
18	278°41.1'	92°27.5'	S 2°41.5'	342°36.3'	11.7'	S 18°44.4'	3.0'	54.8'
19	293°43.6'	107°27.7'	S 2°42.5'	357°07.1'	11.7'	S 18°41.5'	3.1'	54.8'
20	308°46.0'	122°27.9'	S 2°43.4'	11°37.8'	11.7'	S 18°38.4'	3.1'	54.8'
21	323°48.5'	137°28.1'	S 2°44.4'	26°08.6'	11.7'	S 18°35.3'	3.2'	54.8'
22	338°50.9'	152°28.3'	S 2°45.4'	40°39.3'	11.7'	S 18°32.0'	3.3'	54.8'
23	353°53.4'	167°28.5'	S 2°46.3'	55°10.0'	11.7'	S 18°28.7'	3.4'	54.9'

Sat Sep 30, 2017 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 1.0' SD = 16.0'		SD = 15.0'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	8°55.9'	182°28.7'	S 2°47.3'	69°40.8'	11.7'	S 18°25.3'	3.5'	54.9'
1	23°58.3'	197°28.9'	S 2°48.3'	84°11.5'	11.7'	S 18°21.8'	3.6'	54.9'
2	39°00.8'	212°29.1'	S 2°49.3'	98°42.2'	11.7'	S 18°18.2'	3.7'	54.9'
3	54°03.3'	227°29.3'	S 2°50.2'	113°12.9'	11.7'	S 18°14.5'	3.8'	54.9'
4	69°05.7'	242°29.5'	S 2°51.2'	127°43.6'	11.7'	S 18°10.7'	3.9'	55.0'
5	84°08.2'	257°29.8'	S 2°52.2'	142°14.4'	11.7'	S 18°06.8'	4.0'	55.0'
6	99°10.7'	272°30.0'	S 2°53.1'	156°45.1'	11.7'	S 18°02.9'	4.0'	55.0'
7	114°13.1'	287°30.2'	S 2°54.1'	171°15.8'	11.7'	S 17°58.8'	4.1'	55.0'
8	129°15.6'	302°30.4'	S 2°55.1'	185°46.5'	11.7'	S 17°54.7'	4.2'	55.0'
9	144°18.0'	317°30.6'	S 2°56.1'	200°17.2'	11.7'	S 17°50.5'	4.3'	55.1'
10	159°20.5'	332°30.8'	S 2°57.0'	214°47.9'	11.7'	S 17°46.2'	4.4'	55.1'
11	174°23.0'	347°31.0'	S 2°58.0'	229°18.6'	11.7'	S 17°41.8'	4.5'	55.1'
12	189°25.4'	2°31.2'	S 2°59.0'	243°49.4'	11.7'	S 17°37.3'	4.6'	55.1'
13	204°27.9'	17°31.4'	S 2°59.9'	258°20.1'	11.7'	S 17°32.7'	4.7'	55.2'
14	219°30.4'	32°31.6'	S 3°00.9'	272°50.8'	11.7'	S 17°28.0'	4.8'	55.2'
15	234°32.8'	47°31.8'	S 3°01.9'	287°21.5'	11.7'	S 17°23.2'	4.8'	55.2'
16	249°35.3'	62°32.0'	S 3°02.8'	301°52.2'	11.7'	S 17°18.4'	4.9'	55.2'
17	264°37.8'	77°32.2'	S 3°03.8'	316°22.9'	11.7'	S 17°13.5'	5.0'	55.2'
18	279°40.2'	92°32.4'	S 3°04.8'	330°53.6'	11.7'	S 17°08.4'	5.1'	55.3'
19	294°42.7'	107°32.6'	S 3°05.8'	345°24.3'	11.7'	S 17°03.3'	5.2'	55.3'
20	309°45.2'	122°32.8'	S 3°06.7'	359°55.0'	11.7'	S 16°58.1'	5.3'	55.3'
21	324°47.6'	137°33.0'	S 3°07.7'	14°25.7'	11.7'	S 16°52.8'	5.4'	55.3'
22	339°50.1'	152°33.2'	S 3°08.7'	28°56.4'	11.7'	S 16°47.5'	5.5'	55.4'
23	354°52.5'	167°33.4'	S 3°09.6'	43°27.1'	11.7'	S 16°42.0'	5.5'	55.4'