

Sat Sep 1, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 15.8'		SD = 15.6'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	340°06.5'	179°57.6'	N 8°22.4'	298°43.8'	11.8'	N 10°34.3'	10.1'	57.0'
1	355°08.9'	194°57.8'	N 8°21.5'	313°14.6'	11.7'	N 10°44.5'	10.1'	57.0'
2	10°11.4'	209°58.0'	N 8°20.6'	327°45.3'	11.6'	N 10°54.5'	10.0'	57.0'
3	25°13.9'	224°58.2'	N 8°19.7'	342°16.0'	11.6'	N 11°04.6'	10.0'	57.1'
4	40°16.3'	239°58.4'	N 8°18.8'	356°46.5'	11.5'	N 11°14.6'	9.9'	57.1'
5	55°18.8'	254°58.6'	N 8°17.9'	11°17.1'	11.5'	N 11°24.5'	9.9'	57.1'
6	70°21.3'	269°58.8'	N 8°17.0'	25°47.5'	11.4'	N 11°34.4'	9.8'	57.2'
7	85°23.7'	284°59.0'	N 8°16.1'	40°17.9'	11.3'	N 11°44.2'	9.8'	57.2'
8	100°26.2'	299°59.2'	N 8°15.2'	54°48.2'	11.3'	N 11°54.0'	9.7'	57.2'
9	115°28.7'	314°59.4'	N 8°14.3'	69°18.5'	11.2'	N 12°03.7'	9.7'	57.2'
10	130°31.1'	329°59.6'	N 8°13.4'	83°48.6'	11.1'	N 12°13.4'	9.6'	57.3'
11	145°33.6'	344°59.8'	N 8°12.5'	98°18.8'	11.0'	N 12°23.1'	9.6'	57.3'
12	160°36.0'	0°00.0'	N 8°11.6'	112°48.8'	11.0'	N 12°32.6'	9.5'	57.3'
13	175°38.5'	15°00.2'	N 8°10.7'	127°18.8'	10.9'	N 12°42.1'	9.5'	57.3'
14	190°41.0'	30°00.4'	N 8°09.8'	141°48.7'	10.8'	N 12°51.6'	9.4'	57.4'
15	205°43.4'	45°00.6'	N 8°08.8'	156°18.5'	10.8'	N 13°01.0'	9.3'	57.4'
16	220°45.9'	60°00.8'	N 8°07.9'	170°48.3'	10.7'	N 13°10.4'	9.3'	57.4'
17	235°48.4'	75°01.0'	N 8°07.0'	185°18.0'	10.6'	N 13°19.6'	9.2'	57.5'
18	250°50.8'	90°01.2'	N 8°06.1'	199°47.6'	10.6'	N 13°28.9'	9.2'	57.5'
19	265°53.3'	105°01.4'	N 8°05.2'	214°17.2'	10.5'	N 13°38.0'	9.1'	57.5'
20	280°55.8'	120°01.6'	N 8°04.3'	228°46.7'	10.4'	N 13°47.1'	9.0'	57.5'
21	295°58.2'	135°01.8'	N 8°03.4'	243°16.1'	10.3'	N 13°56.1'	9.0'	57.6'
22	311°00.7'	150°02.0'	N 8°02.5'	257°45.4'	10.3'	N 14°05.1'	8.9'	57.6'
23	326°03.2'	165°02.2'	N 8°01.6'	272°14.7'	10.2'	N 14°14.0'	8.8'	57.6'

Sun Sep 2, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 15.9'		SD = 15.8'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	341°05.6'	180°02.4'	N 8°00.7'	286°43.9'	10.1'	N 14°22.8'	8.8'	57.6'
1	356°08.1'	195°02.6'	N 7°59.8'	301°13.0'	10.0'	N 14°31.6'	8.7'	57.7'
2	11°10.5'	210°02.8'	N 7°58.8'	315°42.0'	10.0'	N 14°40.3'	8.6'	57.7'
3	26°13.0'	225°03.0'	N 7°57.9'	330°11.0'	9.9'	N 14°48.9'	8.5'	57.7'
4	41°15.5'	240°03.2'	N 7°57.0'	344°39.9'	9.8'	N 14°57.4'	8.5'	57.8'
5	56°17.9'	255°03.4'	N 7°56.1'	359°08.7'	9.7'	N 15°05.9'	8.4'	57.8'
6	71°20.4'	270°03.6'	N 7°55.2'	13°37.4'	9.7'	N 15°14.3'	8.3'	57.8'
7	86°22.9'	285°03.8'	N 7°54.3'	28°06.1'	9.6'	N 15°22.6'	8.2'	57.8'
8	101°25.3'	300°04.0'	N 7°53.4'	42°34.7'	9.5'	N 15°30.8'	8.2'	57.9'
9	116°27.8'	315°04.2'	N 7°52.5'	57°03.2'	9.4'	N 15°39.0'	8.1'	57.9'
10	131°30.3'	330°04.4'	N 7°51.6'	71°31.6'	9.3'	N 15°47.1'	8.0'	57.9'
11	146°32.7'	345°04.6'	N 7°50.6'	85°60.0'	9.3'	N 15°55.1'	7.9'	58.0'
12	161°35.2'	0°04.8'	N 7°49.7'	100°28.2'	9.2'	N 16°03.0'	7.8'	58.0'
13	176°37.7'	15°05.0'	N 7°48.8'	114°56.4'	9.1'	N 16°10.8'	7.8'	58.0'
14	191°40.1'	30°05.2'	N 7°47.9'	129°24.5'	9.0'	N 16°18.6'	7.7'	58.0'
15	206°42.6'	45°05.4'	N 7°47.0'	143°52.6'	9.0'	N 16°26.2'	7.6'	58.1'
16	221°45.0'	60°05.6'	N 7°46.1'	158°20.5'	8.9'	N 16°33.8'	7.5'	58.1'
17	236°47.5'	75°05.8'	N 7°45.2'	172°48.4'	8.8'	N 16°41.3'	7.4'	58.1'
18	251°50.0'	90°06.0'	N 7°44.2'	187°16.2'	8.7'	N 16°48.7'	7.3'	58.2'
19	266°52.4'	105°06.2'	N 7°43.3'	201°43.9'	8.6'	N 16°56.0'	7.2'	58.2'
20	281°54.9'	120°06.4'	N 7°42.4'	216°11.6'	8.6'	N 17°03.2'	7.1'	58.2'
21	296°57.4'	135°06.6'	N 7°41.5'	230°39.2'	8.5'	N 17°10.4'	7.0'	58.2'
22	311°59.8'	150°06.8'	N 7°40.6'	245°06.6'	8.4'	N 17°17.4'	6.9'	58.3'
23	327°02.3'	165°07.0'	N 7°39.7'	259°34.0'	8.3'	N 17°24.4'	6.8'	58.3'

Mon Sep 3, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 15.9'		SD = 16.0'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	342°04.8'	180°07.2'	N 7°38.8'	274°01.4'	8.3'	N 17°31.2'	6.8'	58.3'
1	357°07.2'	195°07.4'	N 7°37.8'	288°28.6'	8.2'	N 17°38.0'	6.7'	58.4'
2	12°09.7'	210°07.6'	N 7°36.9'	302°55.8'	8.1'	N 17°44.6'	6.6'	58.4'
3	27°12.1'	225°07.8'	N 7°36.0'	317°22.9'	8.0'	N 17°51.2'	6.5'	58.4'
4	42°14.6'	240°08.0'	N 7°35.1'	331°49.9'	7.9'	N 17°57.6'	6.4'	58.4'
5	57°17.1'	255°08.3'	N 7°34.2'	346°16.9'	7.9'	N 18°04.0'	6.3'	58.5'
6	72°19.5'	270°08.5'	N 7°33.3'	0°43.7'	7.8'	N 18°10.2'	6.1'	58.5'
7	87°22.0'	285°08.7'	N 7°32.3'	15°10.5'	7.7'	N 18°16.4'	6.0'	58.5'
8	102°24.5'	300°08.9'	N 7°31.4'	29°37.2'	7.6'	N 18°22.4'	5.9'	58.6'
9	117°26.9'	315°09.1'	N 7°30.5'	44°03.8'	7.6'	N 18°28.4'	5.8'	58.6'
10	132°29.4'	330°09.3'	N 7°29.6'	58°30.4'	7.5'	N 18°34.2'	5.7'	58.6'
11	147°31.9'	345°09.5'	N 7°28.7'	72°56.9'	7.4'	N 18°39.9'	5.6'	58.6'
12	162°34.3'	0°09.7'	N 7°27.8'	87°23.3'	7.3'	N 18°45.5'	5.5'	58.7'
13	177°36.8'	15°09.9'	N 7°26.8'	101°49.6'	7.3'	N 18°51.0'	5.4'	58.7'
14	192°39.3'	30°10.1'	N 7°25.9'	116°15.9'	7.2'	N 18°56.4'	5.3'	58.7'
15	207°41.7'	45°10.3'	N 7°25.0'	130°42.0'	7.1'	N 19°01.7'	5.2'	58.8'
16	222°44.2'	60°10.5'	N 7°24.1'	145°08.1'	7.0'	N 19°06.9'	5.1'	58.8'
17	237°46.6'	75°10.7'	N 7°23.2'	159°34.2'	7.0'	N 19°11.9'	4.9'	58.8'
18	252°49.1'	90°10.9'	N 7°22.2'	174°00.1'	6.9'	N 19°16.9'	4.8'	58.8'
19	267°51.6'	105°11.1'	N 7°21.3'	188°26.0'	6.8'	N 19°21.7'	4.7'	58.9'
20	282°54.0'	120°11.3'	N 7°20.4'	202°51.8'	6.7'	N 19°26.4'	4.6'	58.9'
21	297°56.5'	135°11.5'	N 7°19.5'	217°17.6'	6.7'	N 19°31.0'	4.5'	58.9'
22	312°59.0'	150°11.7'	N 7°18.6'	231°43.2'	6.6'	N 19°35.4'	4.3'	59.0'
23	328°01.4'	165°11.9'	N 7°17.6'	246°08.8'	6.5'	N 19°39.8'	4.2'	59.0'

Tue Sep 4, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 15.9'		SD = 16.2'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	343°03.9'	180°12.1'	N 7°16.7'	260°34.4'	6.5'	N 19°44.0'	4.1'	59.0'
1	358°06.4'	195°12.3'	N 7°15.8'	274°59.8'	6.4'	N 19°48.1'	4.0'	59.0'
2	13°08.8'	210°12.5'	N 7°14.9'	289°25.2'	6.3'	N 19°52.1'	3.9'	59.1'
3	28°11.3'	225°12.8'	N 7°14.0'	303°50.6'	6.3'	N 19°56.0'	3.7'	59.1'
4	43°13.8'	240°13.0'	N 7°13.0'	318°15.8'	6.2'	N 19°59.7'	3.6'	59.1'
5	58°16.2'	255°13.2'	N 7°12.1'	332°41.0'	6.1'	N 20°03.3'	3.5'	59.1'
6	73°18.7'	270°13.4'	N 7°11.2'	347°06.2'	6.1'	N 20°06.8'	3.3'	59.2'
7	88°21.1'	285°13.6'	N 7°10.3'	1°31.2'	6.0'	N 20°10.1'	3.2'	59.2'
8	103°23.6'	300°13.8'	N 7°09.4'	15°56.2'	5.9'	N 20°13.3'	3.1'	59.2'
9	118°26.1'	315°14.0'	N 7°08.4'	30°21.2'	5.9'	N 20°16.4'	3.0'	59.3'
10	133°28.5'	330°14.2'	N 7°07.5'	44°46.1'	5.8'	N 20°19.4'	2.8'	59.3'
11	148°31.0'	345°14.4'	N 7°06.6'	59°10.9'	5.8'	N 20°22.2'	2.7'	59.3'
12	163°33.5'	0°14.6'	N 7°05.7'	73°35.7'	5.7'	N 20°24.9'	2.6'	59.3'
13	178°35.9'	15°14.8'	N 7°04.7'	88°00.4'	5.7'	N 20°27.5'	2.4'	59.4'
14	193°38.4'	30°15.0'	N 7°03.8'	102°25.0'	5.6'	N 20°29.9'	2.3'	59.4'
15	208°40.9'	45°15.2'	N 7°02.9'	116°49.6'	5.5'	N 20°32.2'	2.2'	59.4'
16	223°43.3'	60°15.4'	N 7°02.0'	131°14.2'	5.5'	N 20°34.4'	2.0'	59.4'
17	238°45.8'	75°15.6'	N 7°01.1'	145°38.7'	5.4'	N 20°36.4'	1.9'	59.5'
18	253°48.3'	90°15.9'	N 7°00.1'	160°03.1'	5.4'	N 20°38.3'	1.8'	59.5'
19	268°50.7'	105°16.1'	N 6°59.2'	174°27.5'	5.3'	N 20°40.0'	1.6'	59.5'
20	283°53.2'	120°16.3'	N 6°58.3'	188°51.9'	5.3'	N 20°41.6'	1.5'	59.5'
21	298°55.6'	135°16.5'	N 6°57.4'	203°16.1'	5.2'	N 20°43.1'	1.3'	59.6'
22	313°58.1'	150°16.7'	N 6°56.4'	217°40.4'	5.2'	N 20°44.5'	1.2'	59.6'
23	329°00.6'	165°16.9'	N 6°55.5'	232°04.6'	5.2'	N 20°45.7'	1.1'	59.6'

Wed Sep 5, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 15.9'		SD = 16.3'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	344°03.0'	180°17.1'	N 6°54.6'	246°28.8'	5.1'	N 20°46.7'	0.9'	59.7'
1	359°05.5'	195°17.3'	N 6°53.7'	260°52.9'	5.1'	N 20°47.6'	0.8'	59.7'
2	14°08.0'	210°17.5'	N 6°52.7'	275°16.9'	5.0'	N 20°48.4'	0.6'	59.7'
3	29°10.4'	225°17.7'	N 6°51.8'	289°41.0'	5.0'	N 20°49.0'	0.5'	59.7'
4	44°12.9'	240°17.9'	N 6°50.9'	304°05.0'	5.0'	N 20°49.5'	0.3'	59.7'
5	59°15.4'	255°18.1'	N 6°49.9'	318°28.9'	4.9'	N 20°49.9'	0.2'	59.8'
6	74°17.8'	270°18.3'	N 6°49.0'	332°52.9'	4.9'	N 20°50.1'	0.1'	59.8'
7	89°20.3'	285°18.6'	N 6°48.1'	347°16.8'	4.9'	N 20°50.1'	0.1'	59.8'
8	104°22.7'	300°18.8'	N 6°47.2'	1°40.6'	4.8'	N 20°50.0'	0.2'	59.8'
9	119°25.2'	315°19.0'	N 6°46.2'	16°04.4'	4.8'	N 20°49.8'	0.4'	59.9'
10	134°27.7'	330°19.2'	N 6°45.3'	30°28.2'	4.8'	N 20°49.4'	0.5'	59.9'
11	149°30.1'	345°19.4'	N 6°44.4'	44°52.0'	4.7'	N 20°48.9'	0.7'	59.9'
12	164°32.6'	0°19.6'	N 6°43.5'	59°15.7'	4.7'	N 20°48.2'	0.8'	59.9'
13	179°35.1'	15°19.8'	N 6°42.5'	73°39.5'	4.7'	N 20°47.4'	1.0'	60.0'
14	194°37.5'	30°20.0'	N 6°41.6'	88°03.1'	4.7'	N 20°46.5'	1.1'	60.0'
15	209°40.0'	45°20.2'	N 6°40.7'	102°26.8'	4.6'	N 20°45.4'	1.2'	60.0'
16	224°42.5'	60°20.4'	N 6°39.7'	116°50.5'	4.6'	N 20°44.1'	1.4'	60.0'
17	239°44.9'	75°20.6'	N 6°38.8'	131°14.1'	4.6'	N 20°42.7'	1.5'	60.0'
18	254°47.4'	90°20.9'	N 6°37.9'	145°37.7'	4.6'	N 20°41.2'	1.7'	60.1'
19	269°49.9'	105°21.1'	N 6°37.0'	160°01.3'	4.6'	N 20°39.5'	1.8'	60.1'
20	284°52.3'	120°21.3'	N 6°36.0'	174°24.9'	4.6'	N 20°37.7'	2.0'	60.1'
21	299°54.8'	135°21.5'	N 6°35.1'	188°48.4'	4.6'	N 20°35.7'	2.1'	60.1'
22	314°57.2'	150°21.7'	N 6°34.2'	203°12.0'	4.5'	N 20°33.5'	2.3'	60.1'
23	329°59.7'	165°21.9'	N 6°33.2'	217°35.5'	4.5'	N 20°31.3'	2.4'	60.2'

Thu Sep 6, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 15.9'		SD = 16.5'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	345°02.2'	180°22.1'	N 6°32.3'	231°59.1'	4.5'	N 20°28.8'	2.6'	60.2'
1	0°04.6'	195°22.3'	N 6°31.4'	246°22.6'	4.5'	N 20°26.3'	2.7'	60.2'
2	15°07.1'	210°22.5'	N 6°30.5'	260°46.1'	4.5'	N 20°23.6'	2.9'	60.2'
3	30°09.6'	225°22.7'	N 6°29.5'	275°09.7'	4.5'	N 20°20.7'	3.0'	60.2'
4	45°12.0'	240°23.0'	N 6°28.6'	289°33.2'	4.5'	N 20°17.7'	3.2'	60.3'
5	60°14.5'	255°23.2'	N 6°27.7'	303°56.7'	4.5'	N 20°14.5'	3.3'	60.3'
6	75°17.0'	270°23.4'	N 6°26.7'	318°20.2'	4.5'	N 20°11.2'	3.4'	60.3'
7	90°19.4'	285°23.6'	N 6°25.8'	332°43.8'	4.5'	N 20°07.8'	3.6'	60.3'
8	105°21.9'	300°23.8'	N 6°24.9'	347°07.3'	4.5'	N 20°04.2'	3.7'	60.3'
9	120°24.4'	315°24.0'	N 6°23.9'	1°30.8'	4.5'	N 20°00.5'	3.9'	60.3'
10	135°26.8'	330°24.2'	N 6°23.0'	15°54.4'	4.6'	N 19°56.6'	4.0'	60.4'
11	150°29.3'	345°24.4'	N 6°22.1'	30°17.9'	4.6'	N 19°52.6'	4.2'	60.4'
12	165°31.7'	0°24.6'	N 6°21.1'	44°41.5'	4.6'	N 19°48.4'	4.3'	60.4'
13	180°34.2'	15°24.8'	N 6°20.2'	59°05.0'	4.6'	N 19°44.1'	4.5'	60.4'
14	195°36.7'	30°25.1'	N 6°19.3'	73°28.6'	4.6'	N 19°39.7'	4.6'	60.4'
15	210°39.1'	45°25.3'	N 6°18.3'	87°52.2'	4.6'	N 19°35.1'	4.7'	60.4'
16	225°41.6'	60°25.5'	N 6°17.4'	102°15.8'	4.6'	N 19°30.3'	4.9'	60.4'
17	240°44.1'	75°25.7'	N 6°16.5'	116°39.5'	4.7'	N 19°25.4'	5.0'	60.5'
18	255°46.5'	90°25.9'	N 6°15.5'	131°03.1'	4.7'	N 19°20.4'	5.2'	60.5'
19	270°49.0'	105°26.1'	N 6°14.6'	145°26.8'	4.7'	N 19°15.3'	5.3'	60.5'
20	285°51.5'	120°26.3'	N 6°13.7'	159°50.5'	4.7'	N 19°10.0'	5.4'	60.5'
21	300°53.9'	135°26.5'	N 6°12.7'	174°14.2'	4.7'	N 19°04.6'	5.6'	60.5'
22	315°56.4'	150°26.8'	N 6°11.8'	188°38.0'	4.8'	N 18°59.0'	5.7'	60.5'
23	330°58.9'	165°27.0'	N 6°10.9'	203°01.7'	4.8'	N 18°53.3'	5.8'	60.5'

Fri Sep 7, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 15.9'		SD = 16.5'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	346°01.3'	180°27.2'	N 6°09.9'	217°25.5'	4.8'	N 18°47.4'	6.0'	60.5'
1	1°03.8'	195°27.4'	N 6°09.0'	231°49.4'	4.9'	N 18°41.5'	6.1'	60.6'
2	16°06.2'	210°27.6'	N 6°08.1'	246°13.2'	4.9'	N 18°35.3'	6.2'	60.6'
3	31°08.7'	225°27.8'	N 6°07.1'	260°37.1'	4.9'	N 18°29.1'	6.4'	60.6'
4	46°11.2'	240°28.0'	N 6°06.2'	275°01.0'	5.0'	N 18°22.7'	6.5'	60.6'
5	61°13.6'	255°28.2'	N 6°05.3'	289°25.0'	5.0'	N 18°16.2'	6.6'	60.6'
6	76°16.1'	270°28.4'	N 6°04.3'	303°49.0'	5.0'	N 18°09.6'	6.8'	60.6'
7	91°18.6'	285°28.7'	N 6°03.4'	318°13.0'	5.1'	N 18°02.8'	6.9'	60.6'
8	106°21.0'	300°28.9'	N 6°02.5'	332°37.0'	5.1'	N 17°55.9'	7.0'	60.6'
9	121°23.5'	315°29.1'	N 6°01.5'	347°01.1'	5.1'	N 17°48.9'	7.2'	60.6'
10	136°26.0'	330°29.3'	N 6°00.6'	1°25.3'	5.2'	N 17°41.7'	7.3'	60.6'
11	151°28.4'	345°29.5'	N 5°59.6'	15°49.4'	5.2'	N 17°34.4'	7.4'	60.6'
12	166°30.9'	0°29.7'	N 5°58.7'	30°13.7'	5.3'	N 17°27.0'	7.5'	60.6'
13	181°33.3'	15°29.9'	N 5°57.8'	44°37.9'	5.3'	N 17°19.5'	7.7'	60.6'
14	196°35.8'	30°30.1'	N 5°56.8'	59°02.2'	5.3'	N 17°11.8'	7.8'	60.7'
15	211°38.3'	45°30.4'	N 5°55.9'	73°26.6'	5.4'	N 17°04.1'	7.9'	60.7'
16	226°40.7'	60°30.6'	N 5°55.0'	87°51.0'	5.4'	N 16°56.2'	8.0'	60.7'
17	241°43.2'	75°30.8'	N 5°54.0'	102°15.4'	5.5'	N 16°48.1'	8.1'	60.7'
18	256°45.7'	90°31.0'	N 5°53.1'	116°39.9'	5.5'	N 16°40.0'	8.2'	60.7'
19	271°48.1'	105°31.2'	N 5°52.2'	131°04.4'	5.6'	N 16°31.8'	8.4'	60.7'
20	286°50.6'	120°31.4'	N 5°51.2'	145°29.0'	5.6'	N 16°23.4'	8.5'	60.7'
21	301°53.1'	135°31.6'	N 5°50.3'	159°53.6'	5.7'	N 16°14.9'	8.6'	60.7'
22	316°55.5'	150°31.9'	N 5°49.3'	174°18.3'	5.7'	N 16°06.3'	8.7'	60.7'
23	331°58.0'	165°32.1'	N 5°48.4'	188°43.1'	5.8'	N 15°57.6'	8.8'	60.7'

Sat Sep 8, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 15.9'		SD = 16.5'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	347°00.5'	180°32.3'	N 5°47.5'	203°07.8'	5.8'	N 15°48.8'	8.9'	60.7'
1	2°02.9'	195°32.5'	N 5°46.5'	217°32.7'	5.9'	N 15°39.9'	9.0'	60.7'
2	17°05.4'	210°32.7'	N 5°45.6'	231°57.6'	5.9'	N 15°30.9'	9.1'	60.7'
3	32°07.8'	225°32.9'	N 5°44.6'	246°22.5'	6.0'	N 15°21.7'	9.2'	60.7'
4	47°10.3'	240°33.1'	N 5°43.7'	260°47.5'	6.1'	N 15°12.5'	9.3'	60.7'
5	62°12.8'	255°33.4'	N 5°42.8'	275°12.6'	6.1'	N 15°03.1'	9.4'	60.7'
6	77°15.2'	270°33.6'	N 5°41.8'	289°37.7'	6.2'	N 14°53.7'	9.5'	60.7'
7	92°17.7'	285°33.8'	N 5°40.9'	304°02.8'	6.2'	N 14°44.1'	9.6'	60.7'
8	107°20.2'	300°34.0'	N 5°39.9'	318°28.1'	6.3'	N 14°34.5'	9.7'	60.7'
9	122°22.6'	315°34.2'	N 5°39.0'	332°53.3'	6.3'	N 14°24.7'	9.8'	60.7'
10	137°25.1'	330°34.4'	N 5°38.1'	347°18.7'	6.4'	N 14°14.9'	9.9'	60.7'
11	152°27.6'	345°34.6'	N 5°37.1'	1°44.1'	6.5'	N 14°05.0'	10.0'	60.7'
12	167°30.0'	0°34.9'	N 5°36.2'	16°09.5'	6.5'	N 13°54.9'	10.1'	60.6'
13	182°32.5'	15°35.1'	N 5°35.2'	30°35.0'	6.6'	N 13°44.8'	10.2'	60.6'
14	197°35.0'	30°35.3'	N 5°34.3'	45°00.6'	6.6'	N 13°34.6'	10.3'	60.6'
15	212°37.4'	45°35.5'	N 5°33.4'	59°26.2'	6.7'	N 13°24.3'	10.4'	60.6'
16	227°39.9'	60°35.7'	N 5°32.4'	73°51.9'	6.7'	N 13°13.9'	10.5'	60.6'
17	242°42.3'	75°35.9'	N 5°31.5'	88°17.7'	6.8'	N 13°03.4'	10.6'	60.6'
18	257°44.8'	90°36.1'	N 5°30.5'	102°43.5'	6.9'	N 12°52.9'	10.6'	60.6'
19	272°47.3'	105°36.4'	N 5°29.6'	117°09.3'	6.9'	N 12°42.2'	10.7'	60.6'
20	287°49.7'	120°36.6'	N 5°28.7'	131°35.3'	7.0'	N 12°31.5'	10.8'	60.6'
21	302°52.2'	135°36.8'	N 5°27.7'	146°01.2'	7.0'	N 12°20.7'	10.9'	60.6'
22	317°54.7'	150°37.0'	N 5°26.8'	160°27.3'	7.1'	N 12°09.8'	11.0'	60.6'
23	332°57.1'	165°37.2'	N 5°25.8'	174°53.4'	7.2'	N 11°58.9'	11.0'	60.6'

Sun Sep 9, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 15.9'		SD = 16.5'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	347°59.6'	180°37.4'	N 5°24.9'	189°19.6'	7.2'	N 11°47.9'	11.1'	60.5'
1	3°02.1'	195°37.7'	N 5°23.9'	203°45.8'	7.3'	N 11°36.7'	11.2'	60.5'
2	18°04.5'	210°37.9'	N 5°23.0'	218°12.1'	7.4'	N 11°25.6'	11.2'	60.5'
3	33°07.0'	225°38.1'	N 5°22.1'	232°38.4'	7.4'	N 11°14.3'	11.3'	60.5'
4	48°09.4'	240°38.3'	N 5°21.1'	247°04.8'	7.5'	N 11°03.0'	11.4'	60.5'
5	63°11.9'	255°38.5'	N 5°20.2'	261°31.3'	7.5'	N 10°51.6'	11.4'	60.5'
6	78°14.4'	270°38.7'	N 5°19.2'	275°57.9'	7.6'	N 10°40.2'	11.5'	60.5'
7	93°16.8'	285°38.9'	N 5°18.3'	290°24.4'	7.7'	N 10°28.7'	11.6'	60.5'
8	108°19.3'	300°39.2'	N 5°17.3'	304°51.1'	7.7'	N 10°17.1'	11.6'	60.4'
9	123°21.8'	315°39.4'	N 5°16.4'	319°17.8'	7.8'	N 10°05.5'	11.7'	60.4'
10	138°24.2'	330°39.6'	N 5°15.5'	333°44.6'	7.8'	N 9°53.8'	11.7'	60.4'
11	153°26.7'	345°39.8'	N 5°14.5'	348°11.4'	7.9'	N 9°42.0'	11.8'	60.4'
12	168°29.2'	0°40.0'	N 5°13.6'	2°38.3'	8.0'	N 9°30.2'	11.9'	60.4'
13	183°31.6'	15°40.2'	N 5°12.6'	17°05.3'	8.0'	N 9°18.4'	11.9'	60.4'
14	198°34.1'	30°40.5'	N 5°11.7'	31°32.3'	8.1'	N 9°06.5'	12.0'	60.3'
15	213°36.6'	45°40.7'	N 5°10.7'	45°59.4'	8.1'	N 8°54.5'	12.0'	60.3'
16	228°39.0'	60°40.9'	N 5°09.8'	60°26.5'	8.2'	N 8°42.5'	12.1'	60.3'
17	243°41.5'	75°41.1'	N 5°08.8'	74°53.7'	8.3'	N 8°30.4'	12.1'	60.3'
18	258°43.9'	90°41.3'	N 5°07.9'	89°20.9'	8.3'	N 8°18.3'	12.1'	60.3'
19	273°46.4'	105°41.5'	N 5°07.0'	103°48.3'	8.4'	N 8°06.2'	12.2'	60.3'
20	288°48.9'	120°41.8'	N 5°06.0'	118°15.6'	8.4'	N 7°54.0'	12.2'	60.2'
21	303°51.3'	135°42.0'	N 5°05.1'	132°43.0'	8.5'	N 7°41.8'	12.3'	60.2'
22	318°53.8'	150°42.2'	N 5°04.1'	147°10.5'	8.5'	N 7°29.5'	12.3'	60.2'
23	333°56.3'	165°42.4'	N 5°03.2'	161°38.1'	8.6'	N 7°17.2'	12.3'	60.2'

Mon Sep 10, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 15.9'		SD = 16.3'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	348°58.7'	180°42.6'	N 5°02.2'	176°05.7'	8.7'	N 7°04.8'	12.4'	60.2'
1	4°01.2'	195°42.8'	N 5°01.3'	190°33.3'	8.7'	N 6°52.5'	12.4'	60.1'
2	19°03.7'	210°43.1'	N 5°00.3'	205°01.0'	8.8'	N 6°40.1'	12.4'	60.1'
3	34°06.1'	225°43.3'	N 4°59.4'	219°28.8'	8.8'	N 6°27.6'	12.5'	60.1'
4	49°08.6'	240°43.5'	N 4°58.4'	233°56.6'	8.9'	N 6°15.1'	12.5'	60.1'
5	64°11.0'	255°43.7'	N 4°57.5'	248°24.5'	8.9'	N 6°02.6'	12.5'	60.0'
6	79°13.5'	270°43.9'	N 4°56.5'	262°52.4'	9.0'	N 5°50.1'	12.6'	60.0'
7	94°16.0'	285°44.1'	N 4°55.6'	277°20.4'	9.0'	N 5°37.6'	12.6'	60.0'
8	109°18.4'	300°44.4'	N 4°54.6'	291°48.4'	9.1'	N 5°25.0'	12.6'	60.0'
9	124°20.9'	315°44.6'	N 4°53.7'	306°16.5'	9.1'	N 5°12.4'	12.6'	59.9'
10	139°23.4'	330°44.8'	N 4°52.8'	320°44.6'	9.2'	N 4°59.8'	12.6'	59.9'
11	154°25.8'	345°45.0'	N 4°51.8'	335°12.8'	9.2'	N 4°47.1'	12.7'	59.9'
12	169°28.3'	0°45.2'	N 4°50.9'	349°41.1'	9.3'	N 4°34.5'	12.7'	59.9'
13	184°30.8'	15°45.5'	N 4°49.9'	4°09.4'	9.3'	N 4°21.8'	12.7'	59.8'
14	199°33.2'	30°45.7'	N 4°49.0'	18°37.7'	9.4'	N 4°09.1'	12.7'	59.8'
15	214°35.7'	45°45.9'	N 4°48.0'	33°06.1'	9.4'	N 3°56.4'	12.7'	59.8'
16	229°38.2'	60°46.1'	N 4°47.1'	47°34.5'	9.5'	N 3°43.7'	12.7'	59.8'
17	244°40.6'	75°46.3'	N 4°46.1'	62°03.0'	9.5'	N 3°31.0'	12.7'	59.7'
18	259°43.1'	90°46.5'	N 4°45.2'	76°31.6'	9.6'	N 3°18.2'	12.7'	59.7'
19	274°45.5'	105°46.8'	N 4°44.2'	91°00.1'	9.6'	N 3°05.5'	12.7'	59.7'
20	289°48.0'	120°47.0'	N 4°43.3'	105°28.8'	9.7'	N 2°52.8'	12.7'	59.6'
21	304°50.5'	135°47.2'	N 4°42.3'	119°57.5'	9.7'	N 2°40.0'	12.8'	59.6'
22	319°52.9'	150°47.4'	N 4°41.4'	134°26.2'	9.8'	N 2°27.3'	12.8'	59.6'
23	334°55.4'	165°47.6'	N 4°40.4'	148°55.0'	9.8'	N 2°14.5'	12.8'	59.6'

Tue Sep 11, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 1.0' SD = 15.9'		SD = 16.1'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	349°57.9'	180°47.9'	N 4°39.5'	163°23.8'	9.9'	N 2°01.8'	12.8'	59.5'
1	5°00.3'	195°48.1'	N 4°38.5'	177°52.6'	9.9'	N 1°49.0'	12.7'	59.5'
2	20°02.8'	210°48.3'	N 4°37.6'	192°21.5'	9.9'	N 1°36.3'	12.7'	59.5'
3	35°05.3'	225°48.5'	N 4°36.6'	206°50.5'	10.0'	N 1°23.5'	12.7'	59.4'
4	50°07.7'	240°48.7'	N 4°35.7'	221°19.5'	10.0'	N 1°10.8'	12.7'	59.4'
5	65°10.2'	255°48.9'	N 4°34.7'	235°48.5'	10.1'	N 0°58.0'	12.7'	59.4'
6	80°12.7'	270°49.2'	N 4°33.8'	250°17.5'	10.1'	N 0°45.3'	12.7'	59.3'
7	95°15.1'	285°49.4'	N 4°32.8'	264°46.7'	10.1'	N 0°32.6'	12.7'	59.3'
8	110°17.6'	300°49.6'	N 4°31.9'	279°15.8'	10.2'	N 0°19.9'	12.7'	59.3'
9	125°20.0'	315°49.8'	N 4°30.9'	293°45.0'	10.2'	N 0°07.2'	12.7'	59.2'
10	140°22.5'	330°50.0'	N 4°30.0'	308°14.2'	10.3'	S 0°05.5'	12.7'	59.2'
11	155°25.0'	345°50.3'	N 4°29.0'	322°43.5'	10.3'	S 0°18.1'	12.6'	59.2'
12	170°27.4'	0°50.5'	N 4°28.1'	337°12.8'	10.3'	S 0°30.8'	12.6'	59.1'
13	185°29.9'	15°50.7'	N 4°27.1'	351°42.1'	10.4'	S 0°43.4'	12.6'	59.1'
14	200°32.4'	30°50.9'	N 4°26.2'	6°11.5'	10.4'	S 0°56.0'	12.6'	59.1'
15	215°34.8'	45°51.1'	N 4°25.2'	20°40.9'	10.4'	S 1°08.6'	12.6'	59.0'
16	230°37.3'	60°51.4'	N 4°24.3'	35°10.3'	10.5'	S 1°21.2'	12.5'	59.0'
17	245°39.8'	75°51.6'	N 4°23.3'	49°39.8'	10.5'	S 1°33.7'	12.5'	59.0'
18	260°42.2'	90°51.8'	N 4°22.4'	64°09.3'	10.5'	S 1°46.2'	12.5'	58.9'
19	275°44.7'	105°52.0'	N 4°21.4'	78°38.9'	10.6'	S 1°58.7'	12.5'	58.9'
20	290°47.1'	120°52.2'	N 4°20.4'	93°08.4'	10.6'	S 2°11.2'	12.4'	58.9'
21	305°49.6'	135°52.5'	N 4°19.5'	107°38.0'	10.6'	S 2°23.7'	12.4'	58.8'
22	320°52.1'	150°52.7'	N 4°18.5'	122°07.7'	10.7'	S 2°36.1'	12.4'	58.8'
23	335°54.5'	165°52.9'	N 4°17.6'	136°37.4'	10.7'	S 2°48.5'	12.4'	58.8'

Wed Sep 12, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 1.0' SD = 15.9'		SD = 15.9'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	350°57.0'	180°53.1'	N 4°16.6'	151°07.1'	10.7'	S 3°00.8'	12.3'	58.7'
1	5°59.5'	195°53.3'	N 4°15.7'	165°36.8'	10.8'	S 3°13.2'	12.3'	58.7'
2	21°01.9'	210°53.6'	N 4°14.7'	180°06.5'	10.8'	S 3°25.4'	12.3'	58.7'
3	36°04.4'	225°53.8'	N 4°13.8'	194°36.3'	10.8'	S 3°37.7'	12.2'	58.6'
4	51°06.9'	240°54.0'	N 4°12.8'	209°06.1'	10.8'	S 3°49.9'	12.2'	58.6'
5	66°09.3'	255°54.2'	N 4°11.9'	223°36.0'	10.9'	S 4°02.1'	12.2'	58.6'
6	81°11.8'	270°54.4'	N 4°10.9'	238°05.8'	10.9'	S 4°14.3'	12.1'	58.5'
7	96°14.3'	285°54.7'	N 4°10.0'	252°35.7'	10.9'	S 4°26.4'	12.1'	58.5'
8	111°16.7'	300°54.9'	N 4°09.0'	267°05.6'	10.9'	S 4°38.5'	12.0'	58.4'
9	126°19.2'	315°55.1'	N 4°08.1'	281°35.6'	11.0'	S 4°50.5'	12.0'	58.4'
10	141°21.6'	330°55.3'	N 4°07.1'	296°05.5'	11.0'	S 5°02.5'	11.9'	58.4'
11	156°24.1'	345°55.5'	N 4°06.1'	310°35.5'	11.0'	S 5°14.4'	11.9'	58.3'
12	171°26.6'	0°55.8'	N 4°05.2'	325°05.5'	11.0'	S 5°26.3'	11.9'	58.3'
13	186°29.0'	15°56.0'	N 4°04.2'	339°35.5'	11.0'	S 5°38.2'	11.8'	58.3'
14	201°31.5'	30°56.2'	N 4°03.3'	354°05.6'	11.1'	S 5°50.0'	11.8'	58.2'
15	216°34.0'	45°56.4'	N 4°02.3'	8°35.7'	11.1'	S 6°01.8'	11.7'	58.2'
16	231°36.4'	60°56.6'	N 4°01.4'	23°05.7'	11.1'	S 6°13.5'	11.7'	58.2'
17	246°38.9'	75°56.9'	N 4°00.4'	37°35.9'	11.1'	S 6°25.2'	11.6'	58.1'
18	261°41.4'	90°57.1'	N 3°59.5'	52°06.0'	11.1'	S 6°36.8'	11.6'	58.1'
19	276°43.8'	105°57.3'	N 3°58.5'	66°36.1'	11.2'	S 6°48.4'	11.5'	58.0'
20	291°46.3'	120°57.5'	N 3°57.6'	81°06.3'	11.2'	S 6°59.9'	11.5'	58.0'
21	306°48.7'	135°57.7'	N 3°56.6'	95°36.5'	11.2'	S 7°11.4'	11.4'	58.0'
22	321°51.2'	150°58.0'	N 3°55.6'	110°06.7'	11.2'	S 7°22.8'	11.4'	57.9'
23	336°53.7'	165°58.2'	N 3°54.7'	124°36.9'	11.2'	S 7°34.2'	11.3'	57.9'

Thu Sep 13, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 1.0' SD = 15.9'		SD = 15.7'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	351°56.1'	180°58.4'	N 3°53.7'	139°07.1'	11.2'	S 7°45.5'	11.3'	57.9'
1	6°58.6'	195°58.6'	N 3°52.8'	153°37.4'	11.3'	S 7°56.7'	11.2'	57.8'
2	22°01.1'	210°58.8'	N 3°51.8'	168°07.6'	11.3'	S 8°07.9'	11.1'	57.8'
3	37°03.5'	225°59.1'	N 3°50.9'	182°37.9'	11.3'	S 8°19.1'	11.1'	57.7'
4	52°06.0'	240°59.3'	N 3°49.9'	197°08.2'	11.3'	S 8°30.2'	11.0'	57.7'
5	67°08.5'	255°59.5'	N 3°49.0'	211°38.5'	11.3'	S 8°41.2'	11.0'	57.7'
6	82°10.9'	270°59.7'	N 3°48.0'	226°08.8'	11.3'	S 8°52.1'	10.9'	57.6'
7	97°13.4'	285°59.9'	N 3°47.0'	240°39.1'	11.3'	S 9°03.1'	10.8'	57.6'
8	112°15.9'	301°00.2'	N 3°46.1'	255°09.4'	11.3'	S 9°13.9'	10.8'	57.6'
9	127°18.3'	316°00.4'	N 3°45.1'	269°39.8'	11.4'	S 9°24.7'	10.7'	57.5'
10	142°20.8'	331°00.6'	N 3°44.2'	284°10.1'	11.4'	S 9°35.4'	10.7'	57.5'
11	157°23.2'	346°00.8'	N 3°43.2'	298°40.5'	11.4'	S 9°46.0'	10.6'	57.4'
12	172°25.7'	1°01.1'	N 3°42.3'	313°10.9'	11.4'	S 9°56.6'	10.5'	57.4'
13	187°28.2'	16°01.3'	N 3°41.3'	327°41.3'	11.4'	S 10°07.2'	10.5'	57.4'
14	202°30.6'	31°01.5'	N 3°40.3'	342°11.7'	11.4'	S 10°17.6'	10.4'	57.3'
15	217°33.1'	46°01.7'	N 3°39.4'	356°42.1'	11.4'	S 10°28.0'	10.3'	57.3'
16	232°35.6'	61°01.9'	N 3°38.4'	11°12.5'	11.4'	S 10°38.3'	10.3'	57.3'
17	247°38.0'	76°02.2'	N 3°37.5'	25°42.9'	11.4'	S 10°48.6'	10.2'	57.2'
18	262°40.5'	91°02.4'	N 3°36.5'	40°13.3'	11.4'	S 10°58.8'	10.1'	57.2'
19	277°43.0'	106°02.6'	N 3°35.5'	54°43.8'	11.4'	S 11°08.9'	10.0'	57.2'
20	292°45.4'	121°02.8'	N 3°34.6'	69°14.2'	11.4'	S 11°19.0'	10.0'	57.1'
21	307°47.9'	136°03.0'	N 3°33.6'	83°44.7'	11.5'	S 11°28.9'	9.9'	57.1'
22	322°50.3'	151°03.3'	N 3°32.7'	98°15.1'	11.5'	S 11°38.8'	9.8'	57.0'
23	337°52.8'	166°03.5'	N 3°31.7'	112°45.6'	11.5'	S 11°48.7'	9.8'	57.0'

Fri Sep 14, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 1.0' SD = 15.9'		SD = 15.4'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	352°55.3'	181°03.7'	N 3°30.8'	127°16.0'	11.5'	S 11°58.4'	9.7'	57.0'
1	7°57.7'	196°03.9'	N 3°29.8'	141°46.5'	11.5'	S 12°08.1'	9.6'	56.9'
2	23°00.2'	211°04.2'	N 3°28.8'	156°17.0'	11.5'	S 12°17.7'	9.5'	56.9'
3	38°02.7'	226°04.4'	N 3°27.9'	170°47.4'	11.5'	S 12°27.3'	9.5'	56.9'
4	53°05.1'	241°04.6'	N 3°26.9'	185°17.9'	11.5'	S 12°36.7'	9.4'	56.8'
5	68°07.6'	256°04.8'	N 3°26.0'	199°48.4'	11.5'	S 12°46.1'	9.3'	56.8'
6	83°10.1'	271°05.0'	N 3°25.0'	214°18.9'	11.5'	S 12°55.5'	9.2'	56.8'
7	98°12.5'	286°05.3'	N 3°24.0'	228°49.4'	11.5'	S 13°04.7'	9.2'	56.7'
8	113°15.0'	301°05.5'	N 3°23.1'	243°19.9'	11.5'	S 13°13.8'	9.1'	56.7'
9	128°17.5'	316°05.7'	N 3°22.1'	257°50.3'	11.5'	S 13°22.9'	9.0'	56.7'
10	143°19.9'	331°05.9'	N 3°21.2'	272°20.8'	11.5'	S 13°31.9'	8.9'	56.6'
11	158°22.4'	346°06.1'	N 3°20.2'	286°51.3'	11.5'	S 13°40.9'	8.8'	56.6'
12	173°24.8'	1°06.4'	N 3°19.2'	301°21.8'	11.5'	S 13°49.7'	8.8'	56.6'
13	188°27.3'	16°06.6'	N 3°18.3'	315°52.3'	11.5'	S 13°58.5'	8.7'	56.5'
14	203°29.8'	31°06.8'	N 3°17.3'	330°22.8'	11.5'	S 14°07.1'	8.6'	56.5'
15	218°32.2'	46°07.0'	N 3°16.4'	344°53.3'	11.5'	S 14°15.7'	8.5'	56.4'
16	233°34.7'	61°07.3'	N 3°15.4'	359°23.8'	11.5'	S 14°24.3'	8.4'	56.4'
17	248°37.2'	76°07.5'	N 3°14.4'	13°54.3'	11.5'	S 14°32.7'	8.4'	56.4'
18	263°39.6'	91°07.7'	N 3°13.5'	28°24.8'	11.5'	S 14°41.1'	8.3'	56.3'
19	278°42.1'	106°07.9'	N 3°12.5'	42°55.3'	11.5'	S 14°49.3'	8.2'	56.3'
20	293°44.6'	121°08.1'	N 3°11.6'	57°25.8'	11.5'	S 14°57.5'	8.1'	56.3'
21	308°47.0'	136°08.4'	N 3°10.6'	71°56.3'	11.5'	S 15°05.6'	8.0'	56.2'
22	323°49.5'	151°08.6'	N 3°09.6'	86°26.8'	11.5'	S 15°13.6'	7.9'	56.2'
23	338°52.0'	166°08.8'	N 3°08.7'	100°57.3'	11.5'	S 15°21.6'	7.8'	56.2'

Sat Sep 15, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 1.0' SD = 15.9'		SD = 15.2'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	353°54.4'	181°09.0'	N 3°07.7'	115°27.8'	11.5'	S 15°29.4'	7.8'	56.2'
1	8°56.9'	196°09.3'	N 3°06.8'	129°58.3'	11.5'	S 15°37.2'	7.7'	56.1'
2	23°59.3'	211°09.5'	N 3°05.8'	144°28.7'	11.5'	S 15°44.9'	7.6'	56.1'
3	39°01.8'	226°09.7'	N 3°04.8'	158°59.2'	11.5'	S 15°52.5'	7.5'	56.1'
4	54°04.3'	241°09.9'	N 3°03.9'	173°29.7'	11.5'	S 15°60.0'	7.4'	56.0'
5	69°06.7'	256°10.2'	N 3°02.9'	188°00.2'	11.5'	S 16°07.4'	7.3'	56.0'
6	84°09.2'	271°10.4'	N 3°02.0'	202°30.7'	11.5'	S 16°14.7'	7.2'	56.0'
7	99°11.7'	286°10.6'	N 3°01.0'	217°01.2'	11.5'	S 16°21.9'	7.2'	55.9'
8	114°14.1'	301°10.8'	N 3°00.0'	231°31.6'	11.5'	S 16°29.1'	7.1'	55.9'
9	129°16.6'	316°11.0'	N 2°59.1'	246°02.1'	11.5'	S 16°36.2'	7.0'	55.9'
10	144°19.1'	331°11.3'	N 2°58.1'	260°32.6'	11.5'	S 16°43.1'	6.9'	55.8'
11	159°21.5'	346°11.5'	N 2°57.1'	275°03.1'	11.5'	S 16°50.0'	6.8'	55.8'
12	174°24.0'	1°11.7'	N 2°56.2'	289°33.5'	11.5'	S 16°56.8'	6.7'	55.8'
13	189°26.4'	16°11.9'	N 2°55.2'	304°04.0'	11.5'	S 17°03.5'	6.6'	55.7'
14	204°28.9'	31°12.2'	N 2°54.3'	318°34.4'	11.5'	S 17°10.1'	6.5'	55.7'
15	219°31.4'	46°12.4'	N 2°53.3'	333°04.9'	11.5'	S 17°16.6'	6.4'	55.7'
16	234°33.8'	61°12.6'	N 2°52.3'	347°35.4'	11.5'	S 17°23.1'	6.3'	55.7'
17	249°36.3'	76°12.8'	N 2°51.4'	2°05.8'	11.5'	S 17°29.4'	6.2'	55.6'
18	264°38.8'	91°13.0'	N 2°50.4'	16°36.3'	11.4'	S 17°35.6'	6.2'	55.6'
19	279°41.2'	106°13.3'	N 2°49.4'	31°06.7'	11.4'	S 17°41.8'	6.1'	55.6'
20	294°43.7'	121°13.5'	N 2°48.5'	45°37.2'	11.4'	S 17°47.9'	6.0'	55.5'
21	309°46.2'	136°13.7'	N 2°47.5'	60°07.6'	11.4'	S 17°53.8'	5.9'	55.5'
22	324°48.6'	151°13.9'	N 2°46.6'	74°38.0'	11.4'	S 17°59.7'	5.8'	55.5'
23	339°51.1'	166°14.2'	N 2°45.6'	89°08.5'	11.4'	S 18°05.5'	5.7'	55.5'

Sun Sep 16, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 1.0' SD = 15.9'		SD = 15.0'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	354°53.6'	181°14.4'	N 2°44.6'	103°38.9'	11.4'	S 18°11.2'	5.6'	55.4'
1	9°56.0'	196°14.6'	N 2°43.7'	118°09.4'	11.4'	S 18°16.8'	5.5'	55.4'
2	24°58.5'	211°14.8'	N 2°42.7'	132°39.8'	11.4'	S 18°22.2'	5.4'	55.4'
3	40°00.9'	226°15.1'	N 2°41.7'	147°10.2'	11.4'	S 18°27.7'	5.3'	55.4'
4	55°03.4'	241°15.3'	N 2°40.8'	161°40.6'	11.4'	S 18°33.0'	5.2'	55.3'
5	70°05.9'	256°15.5'	N 2°39.8'	176°11.1'	11.4'	S 18°38.2'	5.1'	55.3'
6	85°08.3'	271°15.7'	N 2°38.8'	190°41.5'	11.4'	S 18°43.3'	5.0'	55.3'
7	100°10.8'	286°15.9'	N 2°37.9'	205°11.9'	11.4'	S 18°48.3'	4.9'	55.3'
8	115°13.3'	301°16.2'	N 2°36.9'	219°42.3'	11.4'	S 18°53.2'	4.8'	55.2'
9	130°15.7'	316°16.4'	N 2°36.0'	234°12.8'	11.4'	S 18°58.1'	4.7'	55.2'
10	145°18.2'	331°16.6'	N 2°35.0'	248°43.2'	11.4'	S 19°02.8'	4.6'	55.2'
11	160°20.7'	346°16.8'	N 2°34.0'	263°13.6'	11.4'	S 19°07.4'	4.5'	55.2'
12	175°23.1'	1°17.1'	N 2°33.1'	277°44.0'	11.4'	S 19°12.0'	4.4'	55.1'
13	190°25.6'	16°17.3'	N 2°32.1'	292°14.4'	11.4'	S 19°16.4'	4.3'	55.1'
14	205°28.1'	31°17.5'	N 2°31.1'	306°44.8'	11.4'	S 19°20.8'	4.3'	55.1'
15	220°30.5'	46°17.7'	N 2°30.2'	321°15.3'	11.4'	S 19°25.0'	4.2'	55.1'
16	235°33.0'	61°18.0'	N 2°29.2'	335°45.7'	11.4'	S 19°29.2'	4.1'	55.0'
17	250°35.4'	76°18.2'	N 2°28.2'	350°16.1'	11.4'	S 19°33.2'	4.0'	55.0'
18	265°37.9'	91°18.4'	N 2°27.3'	4°46.5'	11.4'	S 19°37.2'	3.9'	55.0'
19	280°40.4'	106°18.6'	N 2°26.3'	19°16.9'	11.4'	S 19°41.1'	3.8'	55.0'
20	295°42.8'	121°18.8'	N 2°25.3'	33°47.3'	11.4'	S 19°44.8'	3.7'	55.0'
21	310°45.3'	136°19.1'	N 2°24.4'	48°17.7'	11.4'	S 19°48.5'	3.6'	54.9'
22	325°47.8'	151°19.3'	N 2°23.4'	62°48.2'	11.4'	S 19°52.0'	3.5'	54.9'
23	340°50.2'	166°19.5'	N 2°22.4'	77°18.6'	11.4'	S 19°55.5'	3.4'	54.9'

Mon Sep 17, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 1.0' SD = 15.9'		SD = 14.9'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	355°52.7'	181°19.7'	N 2°21.5'	91°49.0'	11.4'	S 19°58.9'	3.3'	54.9'
1	10°55.2'	196°20.0'	N 2°20.5'	106°19.4'	11.4'	S 20°02.2'	3.2'	54.9'
2	25°57.6'	211°20.2'	N 2°19.5'	120°49.8'	11.4'	S 20°05.3'	3.1'	54.8'
3	41°00.1'	226°20.4'	N 2°18.6'	135°20.2'	11.4'	S 20°08.4'	3.0'	54.8'
4	56°02.5'	241°20.6'	N 2°17.6'	149°50.7'	11.4'	S 20°11.4'	2.9'	54.8'
5	71°05.0'	256°20.9'	N 2°16.7'	164°21.1'	11.4'	S 20°14.3'	2.8'	54.8'
6	86°07.5'	271°21.1'	N 2°15.7'	178°51.5'	11.4'	S 20°17.0'	2.7'	54.8'
7	101°09.9'	286°21.3'	N 2°14.7'	193°22.0'	11.4'	S 20°19.7'	2.6'	54.7'
8	116°12.4'	301°21.5'	N 2°13.8'	207°52.4'	11.4'	S 20°22.3'	2.5'	54.7'
9	131°14.9'	316°21.7'	N 2°12.8'	222°22.8'	11.4'	S 20°24.8'	2.4'	54.7'
10	146°17.3'	331°22.0'	N 2°11.8'	236°53.3'	11.4'	S 20°27.2'	2.3'	54.7'
11	161°19.8'	346°22.2'	N 2°10.9'	251°23.7'	11.5'	S 20°29.4'	2.2'	54.7'
12	176°22.3'	1°22.4'	N 2°09.9'	265°54.2'	11.5'	S 20°31.6'	2.1'	54.6'
13	191°24.7'	16°22.6'	N 2°08.9'	280°24.6'	11.5'	S 20°33.7'	2.0'	54.6'
14	206°27.2'	31°22.9'	N 2°08.0'	294°55.1'	11.5'	S 20°35.7'	1.9'	54.6'
15	221°29.7'	46°23.1'	N 2°07.0'	309°25.6'	11.5'	S 20°37.6'	1.8'	54.6'
16	236°32.1'	61°23.3'	N 2°06.0'	323°56.0'	11.5'	S 20°39.4'	1.7'	54.6'
17	251°34.6'	76°23.5'	N 2°05.1'	338°26.5'	11.5'	S 20°41.1'	1.6'	54.6'
18	266°37.0'	91°23.8'	N 2°04.1'	352°57.0'	11.5'	S 20°42.6'	1.5'	54.6'
19	281°39.5'	106°24.0'	N 2°03.1'	7°27.5'	11.5'	S 20°44.1'	1.4'	54.5'
20	296°42.0'	121°24.2'	N 2°02.2'	21°58.0'	11.5'	S 20°45.5'	1.3'	54.5'
21	311°44.4'	136°24.4'	N 2°01.2'	36°28.5'	11.5'	S 20°46.8'	1.2'	54.5'
22	326°46.9'	151°24.7'	N 2°00.2'	50°59.0'	11.5'	S 20°48.0'	1.1'	54.5'
23	341°49.4'	166°24.9'	N 1°59.3'	65°29.5'	11.5'	S 20°49.1'	1.0'	54.5'

Tue Sep 18, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 1.0' SD = 15.9'		SD = 14.8'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	356°51.8'	181°25.1'	N 1°58.3'	80°00.0'	11.5'	S 20°50.1'	0.9'	54.5'
1	11°54.3'	196°25.3'	N 1°57.3'	94°30.6'	11.5'	S 20°51.0'	0.8'	54.5'
2	26°56.8'	211°25.5'	N 1°56.4'	109°01.1'	11.6'	S 20°51.8'	0.7'	54.4'
3	41°59.2'	226°25.8'	N 1°55.4'	123°31.7'	11.6'	S 20°52.5'	0.6'	54.4'
4	57°01.7'	241°26.0'	N 1°54.4'	138°02.2'	11.6'	S 20°53.1'	0.5'	54.4'
5	72°04.2'	256°26.2'	N 1°53.5'	152°32.8'	11.6'	S 20°53.6'	0.4'	54.4'
6	87°06.6'	271°26.4'	N 1°52.5'	167°03.4'	11.6'	S 20°54.0'	0.3'	54.4'
7	102°09.1'	286°26.7'	N 1°51.5'	181°34.0'	11.6'	S 20°54.3'	0.2'	54.4'
8	117°11.5'	301°26.9'	N 1°50.5'	196°04.6'	11.6'	S 20°54.5'	0.1'	54.4'
9	132°14.0'	316°27.1'	N 1°49.6'	210°35.2'	11.6'	S 20°54.6'	0.0'	54.4'
10	147°16.5'	331°27.3'	N 1°48.6'	225°05.8'	11.6'	S 20°54.6'	0.1'	54.3'
11	162°18.9'	346°27.6'	N 1°47.6'	239°36.4'	11.6'	S 20°54.5'	0.2'	54.3'
12	177°21.4'	1°27.8'	N 1°46.7'	254°07.1'	11.7'	S 20°54.3'	0.3'	54.3'
13	192°23.9'	16°28.0'	N 1°45.7'	268°37.7'	11.7'	S 20°54.0'	0.4'	54.3'
14	207°26.3'	31°28.2'	N 1°44.7'	283°08.4'	11.7'	S 20°53.6'	0.5'	54.3'
15	222°28.8'	46°28.5'	N 1°43.8'	297°39.1'	11.7'	S 20°53.1'	0.6'	54.3'
16	237°31.3'	61°28.7'	N 1°42.8'	312°09.8'	11.7'	S 20°52.5'	0.7'	54.3'
17	252°33.7'	76°28.9'	N 1°41.8'	326°40.5'	11.7'	S 20°51.9'	0.8'	54.3'
18	267°36.2'	91°29.1'	N 1°40.9'	341°11.2'	11.7'	S 20°51.1'	0.9'	54.3'
19	282°38.7'	106°29.3'	N 1°39.9'	355°42.0'	11.8'	S 20°50.2'	1.0'	54.3'
20	297°41.1'	121°29.6'	N 1°38.9'	10°12.7'	11.8'	S 20°49.2'	1.1'	54.3'
21	312°43.6'	136°29.8'	N 1°38.0'	24°43.5'	11.8'	S 20°48.2'	1.2'	54.3'
22	327°46.0'	151°30.0'	N 1°37.0'	39°14.3'	11.8'	S 20°47.0'	1.3'	54.2'
23	342°48.5'	166°30.2'	N 1°36.0'	53°45.0'	11.8'	S 20°45.7'	1.4'	54.2'

Wed Sep 19, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 1.0' SD = 15.9'		SD = 14.8'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	357°51.0'	181°30.5'	N 1°35.1'	68°15.9'	11.8'	S 20°44.4'	1.5'	54.2'
1	12°53.4'	196°30.7'	N 1°34.1'	82°46.7'	11.8'	S 20°42.9'	1.6'	54.2'
2	27°55.9'	211°30.9'	N 1°33.1'	97°17.5'	11.9'	S 20°41.4'	1.6'	54.2'
3	42°58.4'	226°31.1'	N 1°32.2'	111°48.4'	11.9'	S 20°39.7'	1.7'	54.2'
4	58°00.8'	241°31.4'	N 1°31.2'	126°19.3'	11.9'	S 20°38.0'	1.8'	54.2'
5	73°03.3'	256°31.6'	N 1°30.2'	140°50.2'	11.9'	S 20°36.1'	1.9'	54.2'
6	88°05.8'	271°31.8'	N 1°29.2'	155°21.1'	11.9'	S 20°34.2'	2.0'	54.2'
7	103°08.2'	286°32.0'	N 1°28.3'	169°52.0'	11.9'	S 20°32.2'	2.1'	54.2'
8	118°10.7'	301°32.2'	N 1°27.3'	184°22.9'	12.0'	S 20°30.0'	2.2'	54.2'
9	133°13.1'	316°32.5'	N 1°26.3'	198°53.9'	12.0'	S 20°27.8'	2.3'	54.2'
10	148°15.6'	331°32.7'	N 1°25.4'	213°24.9'	12.0'	S 20°25.5'	2.4'	54.2'
11	163°18.1'	346°32.9'	N 1°24.4'	227°55.9'	12.0'	S 20°23.1'	2.5'	54.2'
12	178°20.5'	1°33.1'	N 1°23.4'	242°26.9'	12.0'	S 20°20.6'	2.6'	54.2'
13	193°23.0'	16°33.4'	N 1°22.5'	256°57.9'	12.1'	S 20°18.0'	2.7'	54.2'
14	208°25.5'	31°33.6'	N 1°21.5'	271°29.0'	12.1'	S 20°15.3'	2.8'	54.2'
15	223°27.9'	46°33.8'	N 1°20.5'	286°00.1'	12.1'	S 20°12.5'	2.9'	54.2'
16	238°30.4'	61°34.0'	N 1°19.6'	300°31.2'	12.1'	S 20°09.6'	3.0'	54.2'
17	253°32.9'	76°34.3'	N 1°18.6'	315°02.3'	12.1'	S 20°06.7'	3.1'	54.2'
18	268°35.3'	91°34.5'	N 1°17.6'	329°33.4'	12.2'	S 20°03.6'	3.2'	54.2'
19	283°37.8'	106°34.7'	N 1°16.6'	344°04.6'	12.2'	S 20°00.5'	3.2'	54.2'
20	298°40.3'	121°34.9'	N 1°15.7'	358°35.7'	12.2'	S 19°57.2'	3.3'	54.2'
21	313°42.7'	136°35.1'	N 1°14.7'	13°06.9'	12.2'	S 19°53.9'	3.4'	54.2'
22	328°45.2'	151°35.4'	N 1°13.7'	27°38.2'	12.2'	S 19°50.4'	3.5'	54.2'
23	343°47.6'	166°35.6'	N 1°12.8'	42°09.4'	12.3'	S 19°46.9'	3.6'	54.2'

Thu Sep 20, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 1.0' SD = 15.9'		SD = 14.8'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	358°50.1'	181°35.8'	N 1°11.8'	56°40.7'	12.3'	S 19°43.3'	3.7'	54.2'
1	13°52.6'	196°36.0'	N 1°10.8'	71°11.9'	12.3'	S 19°39.6'	3.8'	54.2'
2	28°55.0'	211°36.3'	N 1°09.9'	85°43.2'	12.3'	S 19°35.8'	3.9'	54.2'
3	43°57.5'	226°36.5'	N 1°08.9'	100°14.6'	12.3'	S 19°31.9'	4.0'	54.2'
4	58°60.0'	241°36.7'	N 1°07.9'	114°45.9'	12.4'	S 19°28.0'	4.1'	54.2'
5	74°02.4'	256°36.9'	N 1°06.9'	129°17.3'	12.4'	S 19°23.9'	4.1'	54.2'
6	89°04.9'	271°37.2'	N 1°06.0'	143°48.7'	12.4'	S 19°19.8'	4.2'	54.2'
7	104°07.4'	286°37.4'	N 1°05.0'	158°20.1'	12.4'	S 19°15.5'	4.3'	54.2'
8	119°09.8'	301°37.6'	N 1°04.0'	172°51.5'	12.5'	S 19°11.2'	4.4'	54.2'
9	134°12.3'	316°37.8'	N 1°03.1'	187°23.0'	12.5'	S 19°06.8'	4.5'	54.2'
10	149°14.8'	331°38.0'	N 1°02.1'	201°54.5'	12.5'	S 19°02.3'	4.6'	54.2'
11	164°17.2'	346°38.3'	N 1°01.1'	216°26.0'	12.5'	S 18°57.7'	4.7'	54.2'
12	179°19.7'	1°38.5'	N 1°00.1'	230°57.5'	12.6'	S 18°53.0'	4.8'	54.2'
13	194°22.1'	16°38.7'	N 0°59.2'	245°29.1'	12.6'	S 18°48.3'	4.8'	54.2'
14	209°24.6'	31°38.9'	N 0°58.2'	260°00.7'	12.6'	S 18°43.4'	4.9'	54.2'
15	224°27.1'	46°39.2'	N 0°57.2'	274°32.3'	12.6'	S 18°38.5'	5.0'	54.2'
16	239°29.5'	61°39.4'	N 0°56.3'	289°03.9'	12.6'	S 18°33.5'	5.1'	54.2'
17	254°32.0'	76°39.6'	N 0°55.3'	303°35.5'	12.7'	S 18°28.4'	5.2'	54.2'
18	269°34.5'	91°39.8'	N 0°54.3'	318°07.2'	12.7'	S 18°23.2'	5.3'	54.2'
19	284°36.9'	106°40.0'	N 0°53.4'	332°38.9'	12.7'	S 18°17.9'	5.4'	54.2'
20	299°39.4'	121°40.3'	N 0°52.4'	347°10.6'	12.7'	S 18°12.6'	5.4'	54.2'
21	314°41.9'	136°40.5'	N 0°51.4'	1°42.3'	12.8'	S 18°07.1'	5.5'	54.2'
22	329°44.3'	151°40.7'	N 0°50.4'	16°14.1'	12.8'	S 18°01.6'	5.6'	54.2'
23	344°46.8'	166°40.9'	N 0°49.5'	30°45.9'	12.8'	S 17°56.0'	5.7'	54.2'

Fri Sep 21, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 1.0' SD = 15.9'		SD = 14.8'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	359°49.2'	181°41.2'	N 0°48.5'	45°17.7'	12.8'	S 17°50.3'	5.8'	54.2'
1	14°51.7'	196°41.4'	N 0°47.5'	59°49.6'	12.9'	S 17°44.6'	5.8'	54.2'
2	29°54.2'	211°41.6'	N 0°46.6'	74°21.4'	12.9'	S 17°38.7'	5.9'	54.2'
3	44°56.6'	226°41.8'	N 0°45.6'	88°53.3'	12.9'	S 17°32.8'	6.0'	54.2'
4	59°59.1'	241°42.0'	N 0°44.6'	103°25.2'	12.9'	S 17°26.8'	6.1'	54.3'
5	75°01.6'	256°42.3'	N 0°43.6'	117°57.1'	13.0'	S 17°20.7'	6.2'	54.3'
6	90°04.0'	271°42.5'	N 0°42.7'	132°29.1'	13.0'	S 17°14.5'	6.2'	54.3'
7	105°06.5'	286°42.7'	N 0°41.7'	147°01.1'	13.0'	S 17°08.3'	6.3'	54.3'
8	120°09.0'	301°42.9'	N 0°40.7'	161°33.1'	13.0'	S 17°02.0'	6.4'	54.3'
9	135°11.4'	316°43.2'	N 0°39.8'	176°05.1'	13.1'	S 16°55.6'	6.5'	54.3'
10	150°13.9'	331°43.4'	N 0°38.8'	190°37.2'	13.1'	S 16°49.1'	6.6'	54.3'
11	165°16.4'	346°43.6'	N 0°37.8'	205°09.2'	13.1'	S 16°42.5'	6.6'	54.3'
12	180°18.8'	1°43.8'	N 0°36.8'	219°41.3'	13.1'	S 16°35.9'	6.7'	54.3'
13	195°21.3'	16°44.0'	N 0°35.9'	234°13.5'	13.1'	S 16°29.2'	6.8'	54.3'
14	210°23.7'	31°44.3'	N 0°34.9'	248°45.6'	13.2'	S 16°22.4'	6.9'	54.3'
15	225°26.2'	46°44.5'	N 0°33.9'	263°17.8'	13.2'	S 16°15.5'	6.9'	54.3'
16	240°28.7'	61°44.7'	N 0°33.0'	277°50.0'	13.2'	S 16°08.6'	7.0'	54.3'
17	255°31.1'	76°44.9'	N 0°32.0'	292°22.2'	13.2'	S 16°01.6'	7.1'	54.4'
18	270°33.6'	91°45.2'	N 0°31.0'	306°54.4'	13.3'	S 15°54.5'	7.2'	54.4'
19	285°36.1'	106°45.4'	N 0°30.0'	321°26.7'	13.3'	S 15°47.4'	7.2'	54.4'
20	300°38.5'	121°45.6'	N 0°29.1'	335°59.0'	13.3'	S 15°40.1'	7.3'	54.4'
21	315°41.0'	136°45.8'	N 0°28.1'	350°31.3'	13.3'	S 15°32.8'	7.4'	54.4'
22	330°43.5'	151°46.0'	N 0°27.1'	5°03.6'	13.4'	S 15°25.5'	7.4'	54.4'
23	345°45.9'	166°46.3'	N 0°26.2'	19°36.0'	13.4'	S 15°18.0'	7.5'	54.4'

Sat Sep 22, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 1.0' SD = 15.9'		SD = 14.9'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	0°48.4'	181°46.5'	N 0°25.2'	34°08.3'	13.4'	S 15°10.5'	7.6'	54.4'
1	15°50.9'	196°46.7'	N 0°24.2'	48°40.7'	13.4'	S 15°02.9'	7.7'	54.4'
2	30°53.3'	211°46.9'	N 0°23.2'	63°13.1'	13.4'	S 14°55.3'	7.7'	54.4'
3	45°55.8'	226°47.2'	N 0°22.3'	77°45.6'	13.5'	S 14°47.5'	7.8'	54.5'
4	60°58.2'	241°47.4'	N 0°21.3'	92°18.0'	13.5'	S 14°39.7'	7.9'	54.5'
5	76°00.7'	256°47.6'	N 0°20.3'	106°50.5'	13.5'	S 14°31.9'	7.9'	54.5'
6	91°03.2'	271°47.8'	N 0°19.3'	121°23.0'	13.5'	S 14°23.9'	8.0'	54.5'
7	106°05.6'	286°48.0'	N 0°18.4'	135°55.6'	13.5'	S 14°15.9'	8.1'	54.5'
8	121°08.1'	301°48.3'	N 0°17.4'	150°28.1'	13.6'	S 14°07.9'	8.1'	54.5'
9	136°10.6'	316°48.5'	N 0°16.4'	165°00.7'	13.6'	S 13°59.8'	8.2'	54.5'
10	151°13.0'	331°48.7'	N 0°15.5'	179°33.2'	13.6'	S 13°51.6'	8.3'	54.5'
11	166°15.5'	346°48.9'	N 0°14.5'	194°05.8'	13.6'	S 13°43.3'	8.3'	54.6'
12	181°18.0'	1°49.1'	N 0°13.5'	208°38.5'	13.6'	S 13°35.0'	8.4'	54.6'
13	196°20.4'	16°49.4'	N 0°12.5'	223°11.1'	13.7'	S 13°26.6'	8.5'	54.6'
14	211°22.9'	31°49.6'	N 0°11.6'	237°43.8'	13.7'	S 13°18.1'	8.5'	54.6'
15	226°25.3'	46°49.8'	N 0°10.6'	252°16.4'	13.7'	S 13°09.6'	8.6'	54.6'
16	241°27.8'	61°50.0'	N 0°09.6'	266°49.1'	13.7'	S 13°01.0'	8.6'	54.6'
17	256°30.3'	76°50.2'	N 0°08.7'	281°21.9'	13.7'	S 12°52.4'	8.7'	54.6'
18	271°32.7'	91°50.5'	N 0°07.7'	295°54.6'	13.8'	S 12°43.7'	8.8'	54.6'
19	286°35.2'	106°50.7'	N 0°06.7'	310°27.3'	13.8'	S 12°34.9'	8.8'	54.7'
20	301°37.7'	121°50.9'	N 0°05.7'	325°00.1'	13.8'	S 12°26.1'	8.9'	54.7'
21	316°40.1'	136°51.1'	N 0°04.8'	339°32.9'	13.8'	S 12°17.3'	8.9'	54.7'
22	331°42.6'	151°51.4'	N 0°03.8'	354°05.7'	13.8'	S 12°08.3'	9.0'	54.7'
23	346°45.1'	166°51.6'	N 0°02.8'	8°38.5'	13.8'	S 11°59.3'	9.1'	54.7'

Sun Sep 23, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 1.0' SD = 15.9'		SD = 15.0'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	1°47.5'	181°51.8'	N 0°01.8'	23°11.4'	13.8'	S 11°50.3'	9.1'	54.7'
1	16°50.0'	196°52.0'	N 0°00.9'	37°44.2'	13.9'	S 11°41.2'	9.2'	54.7'
2	31°52.5'	211°52.2'	S 0°00.1'	52°17.1'	13.9'	S 11°32.0'	9.2'	54.8'
3	46°54.9'	226°52.5'	S 0°01.1'	66°50.0'	13.9'	S 11°22.8'	9.3'	54.8'
4	61°57.4'	241°52.7'	S 0°02.0'	81°22.8'	13.9'	S 11°13.5'	9.3'	54.8'
5	76°59.8'	256°52.9'	S 0°03.0'	95°55.8'	13.9'	S 11°04.2'	9.4'	54.8'
6	92°02.3'	271°53.1'	S 0°04.0'	110°28.7'	13.9'	S 10°54.8'	9.4'	54.8'
7	107°04.8'	286°53.3'	S 0°05.0'	125°01.6'	13.9'	S 10°45.3'	9.5'	54.8'
8	122°07.2'	301°53.6'	S 0°05.9'	139°34.6'	14.0'	S 10°35.8'	9.5'	54.9'
9	137°09.7'	316°53.8'	S 0°06.9'	154°07.5'	14.0'	S 10°26.3'	9.6'	54.9'
10	152°12.2'	331°54.0'	S 0°07.9'	168°40.5'	14.0'	S 10°16.7'	9.6'	54.9'
11	167°14.6'	346°54.2'	S 0°08.9'	183°13.5'	14.0'	S 10°07.1'	9.7'	54.9'
12	182°17.1'	1°54.4'	S 0°09.8'	197°46.5'	14.0'	S 9°57.4'	9.7'	54.9'
13	197°19.6'	16°54.7'	S 0°10.8'	212°19.5'	14.0'	S 9°47.6'	9.8'	54.9'
14	212°22.0'	31°54.9'	S 0°11.8'	226°52.5'	14.0'	S 9°37.8'	9.8'	54.9'
15	227°24.5'	46°55.1'	S 0°12.7'	241°25.5'	14.0'	S 9°28.0'	9.9'	55.0'
16	242°26.9'	61°55.3'	S 0°13.7'	255°58.6'	14.0'	S 9°18.1'	9.9'	55.0'
17	257°29.4'	76°55.5'	S 0°14.7'	270°31.6'	14.1'	S 9°08.2'	10.0'	55.0'
18	272°31.9'	91°55.8'	S 0°15.7'	285°04.7'	14.1'	S 8°58.2'	10.0'	55.0'
19	287°34.3'	106°56.0'	S 0°16.6'	299°37.7'	14.1'	S 8°48.1'	10.1'	55.0'
20	302°36.8'	121°56.2'	S 0°17.6'	314°10.8'	14.1'	S 8°38.1'	10.1'	55.0'
21	317°39.3'	136°56.4'	S 0°18.6'	328°43.9'	14.1'	S 8°28.0'	10.2'	55.1'
22	332°41.7'	151°56.6'	S 0°19.6'	343°17.0'	14.1'	S 8°17.8'	10.2'	55.1'
23	347°44.2'	166°56.8'	S 0°20.5'	357°50.0'	14.1'	S 8°07.6'	10.2'	55.1'

Mon Sep 24, 2018 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°46.7'	181°57.1'	S 0°21.5'	12°23.1'	14.1'	S 7°57.3'	10.3'	55.1'
1	17°49.1'	196°57.3'	S 0°22.5'	26°56.2'	14.1'	S 7°47.1'	10.3'	55.1'
2	32°51.6'	211°57.5'	S 0°23.4'	41°29.4'	14.1'	S 7°36.7'	10.4'	55.1'
3	47°54.1'	226°57.7'	S 0°24.4'	56°02.5'	14.1'	S 7°26.4'	10.4'	55.2'
4	62°56.5'	241°57.9'	S 0°25.4'	70°35.6'	14.1'	S 7°16.0'	10.4'	55.2'
5	77°59.0'	256°58.2'	S 0°26.4'	85°08.7'	14.1'	S 7°05.5'	10.5'	55.2'
6	93°01.4'	271°58.4'	S 0°27.3'	99°41.8'	14.1'	S 6°55.0'	10.5'	55.2'
7	108°03.9'	286°58.6'	S 0°28.3'	114°14.9'	14.1'	S 6°44.5'	10.6'	55.2'
8	123°06.4'	301°58.8'	S 0°29.3'	128°48.1'	14.1'	S 6°33.9'	10.6'	55.3'
9	138°08.8'	316°59.0'	S 0°30.3'	143°21.2'	14.1'	S 6°23.4'	10.6'	55.3'
10	153°11.3'	331°59.3'	S 0°31.2'	157°54.3'	14.1'	S 6°12.7'	10.7'	55.3'
11	168°13.8'	346°59.5'	S 0°32.2'	172°27.4'	14.1'	S 6°02.1'	10.7'	55.3'
12	183°16.2'	1°59.7'	S 0°33.2'	187°00.6'	14.1'	S 5°51.4'	10.7'	55.3'
13	198°18.7'	16°59.9'	S 0°34.2'	201°33.7'	14.1'	S 5°40.6'	10.8'	55.3'
14	213°21.2'	32°00.1'	S 0°35.1'	216°06.8'	14.1'	S 5°29.9'	10.8'	55.4'
15	228°23.6'	47°00.4'	S 0°36.1'	230°39.9'	14.1'	S 5°19.1'	10.8'	55.4'
16	243°26.1'	62°00.6'	S 0°37.1'	245°13.1'	14.1'	S 5°08.3'	10.9'	55.4'
17	258°28.5'	77°00.8'	S 0°38.0'	259°46.2'	14.1'	S 4°57.4'	10.9'	55.4'
18	273°31.0'	92°01.0'	S 0°39.0'	274°19.3'	14.1'	S 4°46.5'	10.9'	55.4'
19	288°33.5'	107°01.2'	S 0°40.0'	288°52.4'	14.1'	S 4°35.6'	10.9'	55.5'
20	303°35.9'	122°01.4'	S 0°41.0'	303°25.5'	14.1'	S 4°24.7'	11.0'	55.5'
21	318°38.4'	137°01.7'	S 0°41.9'	317°58.6'	14.1'	S 4°13.7'	11.0'	55.5'
22	333°40.9'	152°01.9'	S 0°42.9'	332°31.7'	14.1'	S 4°02.7'	11.0'	55.5'
23	348°43.3'	167°02.1'	S 0°43.9'	347°04.8'	14.1'	S 3°51.7'	11.0'	55.5'

Tue Sep 25, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 1.0' SD = 15.9'		SD = 15.2'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	3°45.8'	182°02.3'	S 0°44.9'	1°37.8'	14.1'	S 3°40.6'	11.1'	55.5'
1	18°48.3'	197°02.5'	S 0°45.8'	16°10.9'	14.1'	S 3°29.6'	11.1'	55.6'
2	33°50.7'	212°02.7'	S 0°46.8'	30°44.0'	14.1'	S 3°18.5'	11.1'	55.6'
3	48°53.2'	227°03.0'	S 0°47.8'	45°17.0'	14.0'	S 3°07.4'	11.1'	55.6'
4	63°55.7'	242°03.2'	S 0°48.8'	59°50.1'	14.0'	S 2°56.2'	11.2'	55.6'
5	78°58.1'	257°03.4'	S 0°49.7'	74°23.1'	14.0'	S 2°45.1'	11.2'	55.6'
6	94°00.6'	272°03.6'	S 0°50.7'	88°56.1'	14.0'	S 2°33.9'	11.2'	55.7'
7	109°03.0'	287°03.8'	S 0°51.7'	103°29.1'	14.0'	S 2°22.7'	11.2'	55.7'
8	124°05.5'	302°04.1'	S 0°52.6'	118°02.1'	14.0'	S 2°11.5'	11.2'	55.7'
9	139°08.0'	317°04.3'	S 0°53.6'	132°35.1'	14.0'	S 2°00.2'	11.2'	55.7'
10	154°10.4'	332°04.5'	S 0°54.6'	147°08.1'	14.0'	S 1°49.0'	11.3'	55.7'
11	169°12.9'	347°04.7'	S 0°55.6'	161°41.0'	13.9'	S 1°37.7'	11.3'	55.8'
12	184°15.4'	2°04.9'	S 0°56.5'	176°14.0'	13.9'	S 1°26.4'	11.3'	55.8'
13	199°17.8'	17°05.1'	S 0°57.5'	190°46.9'	13.9'	S 1°15.1'	11.3'	55.8'
14	214°20.3'	32°05.4'	S 0°58.5'	205°19.8'	13.9'	S 1°03.8'	11.3'	55.8'
15	229°22.8'	47°05.6'	S 0°59.5'	219°52.7'	13.9'	S 0°52.5'	11.3'	55.8'
16	244°25.2'	62°05.8'	S 1°00.4'	234°25.6'	13.9'	S 0°41.2'	11.3'	55.9'
17	259°27.7'	77°06.0'	S 1°01.4'	248°58.4'	13.8'	S 0°29.8'	11.4'	55.9'
18	274°30.1'	92°06.2'	S 1°02.4'	263°31.3'	13.8'	S 0°18.5'	11.4'	55.9'
19	289°32.6'	107°06.4'	S 1°03.3'	278°04.1'	13.8'	S 0°07.1'	11.4'	55.9'
20	304°35.1'	122°06.7'	S 1°04.3'	292°36.9'	13.8'	N 0°04.3'	11.4'	55.9'
21	319°37.5'	137°06.9'	S 1°05.3'	307°09.7'	13.8'	N 0°15.6'	11.4'	56.0'
22	334°40.0'	152°07.1'	S 1°06.3'	321°42.4'	13.7'	N 0°27.0'	11.4'	56.0'
23	349°42.5'	167°07.3'	S 1°07.2'	336°15.2'	13.7'	N 0°38.4'	11.4'	56.0'

Wed Sep 26, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 1.0' SD = 16.0'		SD = 15.3'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	4°44.9'	182°07.5'	S 1°08.2'	350°47.9'	13.7'	N 0°49.8'	11.4'	56.0'
1	19°47.4'	197°07.7'	S 1°09.2'	5°20.6'	13.7'	N 1°01.2'	11.4'	56.0'
2	34°49.9'	212°07.9'	S 1°10.2'	19°53.3'	13.6'	N 1°12.6'	11.4'	56.1'
3	49°52.3'	227°08.2'	S 1°11.1'	34°25.9'	13.6'	N 1°24.1'	11.4'	56.1'
4	64°54.8'	242°08.4'	S 1°12.1'	48°58.5'	13.6'	N 1°35.5'	11.4'	56.1'
5	79°57.3'	257°08.6'	S 1°13.1'	63°31.1'	13.6'	N 1°46.9'	11.4'	56.1'
6	94°59.7'	272°08.8'	S 1°14.1'	78°03.7'	13.5'	N 1°58.3'	11.4'	56.1'
7	110°02.2'	287°09.0'	S 1°15.0'	92°36.2'	13.5'	N 2°09.7'	11.4'	56.2'
8	125°04.6'	302°09.2'	S 1°16.0'	107°08.7'	13.5'	N 2°21.1'	11.4'	56.2'
9	140°07.1'	317°09.5'	S 1°17.0'	121°41.2'	13.5'	N 2°32.5'	11.4'	56.2'
10	155°09.6'	332°09.7'	S 1°17.9'	136°13.7'	13.4'	N 2°43.9'	11.4'	56.2'
11	170°12.0'	347°09.9'	S 1°18.9'	150°46.1'	13.4'	N 2°55.3'	11.4'	56.2'
12	185°14.5'	2°10.1'	S 1°19.9'	165°18.5'	13.4'	N 3°06.7'	11.4'	56.3'
13	200°17.0'	17°10.3'	S 1°20.9'	179°50.9'	13.3'	N 3°18.1'	11.4'	56.3'
14	215°19.4'	32°10.5'	S 1°21.8'	194°23.2'	13.3'	N 3°29.5'	11.4'	56.3'
15	230°21.9'	47°10.7'	S 1°22.8'	208°55.5'	13.3'	N 3°40.9'	11.4'	56.3'
16	245°24.4'	62°11.0'	S 1°23.8'	223°27.8'	13.2'	N 3°52.2'	11.4'	56.3'
17	260°26.8'	77°11.2'	S 1°24.8'	238°00.0'	13.2'	N 4°03.6'	11.3'	56.4'
18	275°29.3'	92°11.4'	S 1°25.7'	252°32.2'	13.2'	N 4°14.9'	11.3'	56.4'
19	290°31.8'	107°11.6'	S 1°26.7'	267°04.4'	13.1'	N 4°26.3'	11.3'	56.4'
20	305°34.2'	122°11.8'	S 1°27.7'	281°36.5'	13.1'	N 4°37.6'	11.3'	56.4'
21	320°36.7'	137°12.0'	S 1°28.6'	296°08.6'	13.1'	N 4°48.9'	11.3'	56.4'
22	335°39.1'	152°12.2'	S 1°29.6'	310°40.6'	13.0'	N 5°00.2'	11.3'	56.5'
23	350°41.6'	167°12.5'	S 1°30.6'	325°12.7'	13.0'	N 5°11.5'	11.3'	56.5'

Thu Sep 27, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 1.0' SD = 16.0'		SD = 15.5'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	5°44.1'	182°12.7'	S 1°31.6'	339°44.6'	12.9'	N 5°22.7'	11.2'	56.5'
1	20°46.5'	197°12.9'	S 1°32.5'	354°16.6'	12.9'	N 5°34.0'	11.2'	56.5'
2	35°49.0'	212°13.1'	S 1°33.5'	8°48.5'	12.9'	N 5°45.2'	11.2'	56.5'
3	50°51.5'	227°13.3'	S 1°34.5'	23°20.3'	12.8'	N 5°56.4'	11.2'	56.6'
4	65°53.9'	242°13.5'	S 1°35.5'	37°52.2'	12.8'	N 6°07.6'	11.2'	56.6'
5	80°56.4'	257°13.7'	S 1°36.4'	52°23.9'	12.7'	N 6°18.8'	11.1'	56.6'
6	95°58.9'	272°14.0'	S 1°37.4'	66°55.7'	12.7'	N 6°29.9'	11.1'	56.6'
7	111°01.3'	287°14.2'	S 1°38.4'	81°27.4'	12.7'	N 6°41.0'	11.1'	56.6'
8	126°03.8'	302°14.4'	S 1°39.3'	95°59.0'	12.6'	N 6°52.1'	11.1'	56.7'
9	141°06.2'	317°14.6'	S 1°40.3'	110°30.6'	12.6'	N 7°03.2'	11.0'	56.7'
10	156°08.7'	332°14.8'	S 1°41.3'	125°02.2'	12.5'	N 7°14.2'	11.0'	56.7'
11	171°11.2'	347°15.0'	S 1°42.3'	139°33.7'	12.5'	N 7°25.2'	11.0'	56.7'
12	186°13.6'	2°15.2'	S 1°43.2'	154°05.2'	12.4'	N 7°36.2'	11.0'	56.7'
13	201°16.1'	17°15.4'	S 1°44.2'	168°36.6'	12.4'	N 7°47.2'	10.9'	56.8'
14	216°18.6'	32°15.7'	S 1°45.2'	183°08.0'	12.3'	N 7°58.1'	10.9'	56.8'
15	231°21.0'	47°15.9'	S 1°46.2'	197°39.3'	12.3'	N 8°09.0'	10.9'	56.8'
16	246°23.5'	62°16.1'	S 1°47.1'	212°10.6'	12.2'	N 8°19.9'	10.8'	56.8'
17	261°26.0'	77°16.3'	S 1°48.1'	226°41.8'	12.2'	N 8°30.7'	10.8'	56.9'
18	276°28.4'	92°16.5'	S 1°49.1'	241°13.0'	12.1'	N 8°41.5'	10.8'	56.9'
19	291°30.9'	107°16.7'	S 1°50.0'	255°44.1'	12.1'	N 8°52.2'	10.7'	56.9'
20	306°33.4'	122°16.9'	S 1°51.0'	270°15.2'	12.0'	N 9°03.0'	10.7'	56.9'
21	321°35.8'	137°17.1'	S 1°52.0'	284°46.2'	12.0'	N 9°13.7'	10.6'	56.9'
22	336°38.3'	152°17.4'	S 1°53.0'	299°17.2'	11.9'	N 9°24.3'	10.6'	57.0'
23	351°40.7'	167°17.6'	S 1°53.9'	313°48.1'	11.9'	N 9°34.9'	10.6'	57.0'

Fri Sep 28, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 1.0' SD = 16.0'		SD = 15.6'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	6°43.2'	182°17.8'	S 1°54.9'	328°19.0'	11.8'	N 9°45.5'	10.5'	57.0'
1	21°45.7'	197°18.0'	S 1°55.9'	342°49.8'	11.8'	N 9°56.0'	10.5'	57.0'
2	36°48.1'	212°18.2'	S 1°56.9'	357°20.6'	11.7'	N 10°06.5'	10.4'	57.0'
3	51°50.6'	227°18.4'	S 1°57.8'	11°51.3'	11.7'	N 10°16.9'	10.4'	57.1'
4	66°53.1'	242°18.6'	S 1°58.8'	26°22.0'	11.6'	N 10°27.3'	10.4'	57.1'
5	81°55.5'	257°18.8'	S 1°59.8'	40°52.6'	11.5'	N 10°37.7'	10.3'	57.1'
6	96°58.0'	272°19.0'	S 2°00.7'	55°23.1'	11.5'	N 10°48.0'	10.3'	57.1'
7	112°00.5'	287°19.3'	S 2°01.7'	69°53.6'	11.4'	N 10°58.2'	10.2'	57.1'
8	127°02.9'	302°19.5'	S 2°02.7'	84°24.0'	11.4'	N 11°08.4'	10.2'	57.2'
9	142°05.4'	317°19.7'	S 2°03.7'	98°54.4'	11.3'	N 11°18.6'	10.1'	57.2'
10	157°07.8'	332°19.9'	S 2°04.6'	113°24.7'	11.3'	N 11°28.7'	10.1'	57.2'
11	172°10.3'	347°20.1'	S 2°05.6'	127°55.0'	11.2'	N 11°38.8'	10.0'	57.2'
12	187°12.8'	2°20.3'	S 2°06.6'	142°25.2'	11.1'	N 11°48.8'	9.9'	57.2'
13	202°15.2'	17°20.5'	S 2°07.5'	156°55.3'	11.1'	N 11°58.7'	9.9'	57.3'
14	217°17.7'	32°20.7'	S 2°08.5'	171°25.4'	11.0'	N 12°08.6'	9.8'	57.3'
15	232°20.2'	47°20.9'	S 2°09.5'	185°55.4'	11.0'	N 12°18.4'	9.8'	57.3'
16	247°22.6'	62°21.1'	S 2°10.5'	200°25.4'	10.9'	N 12°28.2'	9.7'	57.3'
17	262°25.1'	77°21.4'	S 2°11.4'	214°55.3'	10.8'	N 12°37.9'	9.7'	57.3'
18	277°27.6'	92°21.6'	S 2°12.4'	229°25.1'	10.8'	N 12°47.6'	9.6'	57.4'
19	292°30.0'	107°21.8'	S 2°13.4'	243°54.9'	10.7'	N 12°57.2'	9.5'	57.4'
20	307°32.5'	122°22.0'	S 2°14.4'	258°24.6'	10.6'	N 13°06.7'	9.5'	57.4'
21	322°35.0'	137°22.2'	S 2°15.3'	272°54.2'	10.6'	N 13°16.2'	9.4'	57.4'
22	337°37.4'	152°22.4'	S 2°16.3'	287°23.8'	10.5'	N 13°25.6'	9.3'	57.4'
23	352°39.9'	167°22.6'	S 2°17.3'	301°53.3'	10.5'	N 13°35.0'	9.3'	57.5'

Sat Sep 29, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 1.0' SD = 16.0'		SD = 15.7'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	7°42.3'	182°22.8'	S 2°18.2'	316°22.8'	10.4'	N 13°44.2'	9.2'	57.5'
1	22°44.8'	197°23.0'	S 2°19.2'	330°52.2'	10.3'	N 13°53.4'	9.1'	57.5'
2	37°47.3'	212°23.2'	S 2°20.2'	345°21.5'	10.3'	N 14°02.6'	9.1'	57.5'
3	52°49.7'	227°23.5'	S 2°21.2'	359°50.8'	10.2'	N 14°11.7'	9.0'	57.5'
4	67°52.2'	242°23.7'	S 2°22.1'	14°20.0'	10.1'	N 14°20.7'	8.9'	57.6'
5	82°54.7'	257°23.9'	S 2°23.1'	28°49.1'	10.1'	N 14°29.6'	8.9'	57.6'
6	97°57.1'	272°24.1'	S 2°24.1'	43°18.2'	10.0'	N 14°38.5'	8.8'	57.6'
7	112°59.6'	287°24.3'	S 2°25.0'	57°47.2'	9.9'	N 14°47.2'	8.7'	57.6'
8	128°02.1'	302°24.5'	S 2°26.0'	72°16.1'	9.9'	N 14°56.0'	8.6'	57.6'
9	143°04.5'	317°24.7'	S 2°27.0'	86°45.0'	9.8'	N 15°04.6'	8.6'	57.7'
10	158°07.0'	332°24.9'	S 2°28.0'	101°13.8'	9.7'	N 15°13.1'	8.5'	57.7'
11	173°09.5'	347°25.1'	S 2°28.9'	115°42.5'	9.7'	N 15°21.6'	8.4'	57.7'
12	188°11.9'	2°25.3'	S 2°29.9'	130°11.2'	9.6'	N 15°30.0'	8.3'	57.7'
13	203°14.4'	17°25.5'	S 2°30.9'	144°39.8'	9.5'	N 15°38.3'	8.2'	57.7'
14	218°16.8'	32°25.7'	S 2°31.8'	159°08.4'	9.5'	N 15°46.6'	8.2'	57.8'
15	233°19.3'	47°25.9'	S 2°32.8'	173°36.8'	9.4'	N 15°54.7'	8.1'	57.8'
16	248°21.8'	62°26.2'	S 2°33.8'	188°05.3'	9.3'	N 16°02.8'	8.0'	57.8'
17	263°24.2'	77°26.4'	S 2°34.8'	202°33.6'	9.3'	N 16°10.8'	7.9'	57.8'
18	278°26.7'	92°26.6'	S 2°35.7'	217°01.9'	9.2'	N 16°18.7'	7.8'	57.8'
19	293°29.2'	107°26.8'	S 2°36.7'	231°30.1'	9.1'	N 16°26.5'	7.7'	57.9'
20	308°31.6'	122°27.0'	S 2°37.7'	245°58.2'	9.1'	N 16°34.2'	7.6'	57.9'
21	323°34.1'	137°27.2'	S 2°38.6'	260°26.3'	9.0'	N 16°41.9'	7.5'	57.9'
22	338°36.6'	152°27.4'	S 2°39.6'	274°54.3'	8.9'	N 16°49.4'	7.5'	57.9'
23	353°39.0'	167°27.6'	S 2°40.6'	289°22.3'	8.9'	N 16°56.9'	7.4'	57.9'

Sun Sep 30, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 1.0' SD = 16.0'		SD = 15.9'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	8°41.5'	182°27.8'	S 2°41.6'	303°50.1'	8.8'	N 17°04.3'	7.3'	58.0'
1	23°43.9'	197°28.0'	S 2°42.5'	318°17.9'	8.7'	N 17°11.5'	7.2'	58.0'
2	38°46.4'	212°28.2'	S 2°43.5'	332°45.7'	8.7'	N 17°18.7'	7.1'	58.0'
3	53°48.9'	227°28.4'	S 2°44.5'	347°13.4'	8.6'	N 17°25.8'	7.0'	58.0'
4	68°51.3'	242°28.6'	S 2°45.4'	1°41.0'	8.5'	N 17°32.8'	6.9'	58.0'
5	83°53.8'	257°28.8'	S 2°46.4'	16°08.5'	8.5'	N 17°39.7'	6.8'	58.1'
6	98°56.3'	272°29.0'	S 2°47.4'	30°36.0'	8.4'	N 17°46.5'	6.7'	58.1'
7	113°58.7'	287°29.2'	S 2°48.3'	45°03.4'	8.4'	N 17°53.1'	6.6'	58.1'
8	129°01.2'	302°29.5'	S 2°49.3'	59°30.8'	8.3'	N 17°59.7'	6.5'	58.1'
9	144°03.7'	317°29.7'	S 2°50.3'	73°58.0'	8.2'	N 18°06.2'	6.4'	58.1'
10	159°06.1'	332°29.9'	S 2°51.3'	88°25.3'	8.2'	N 18°12.6'	6.3'	58.1'
11	174°08.6'	347°30.1'	S 2°52.2'	102°52.4'	8.1'	N 18°18.9'	6.2'	58.2'
12	189°11.1'	2°30.3'	S 2°53.2'	117°19.5'	8.0'	N 18°25.1'	6.1'	58.2'
13	204°13.5'	17°30.5'	S 2°54.2'	131°46.5'	8.0'	N 18°31.1'	6.0'	58.2'
14	219°16.0'	32°30.7'	S 2°55.1'	146°13.5'	7.9'	N 18°37.1'	5.9'	58.2'
15	234°18.4'	47°30.9'	S 2°56.1'	160°40.4'	7.8'	N 18°43.0'	5.8'	58.2'
16	249°20.9'	62°31.1'	S 2°57.1'	175°07.3'	7.8'	N 18°48.7'	5.6'	58.3'
17	264°23.4'	77°31.3'	S 2°58.0'	189°34.0'	7.7'	N 18°54.4'	5.5'	58.3'
18	279°25.8'	92°31.5'	S 2°59.0'	204°00.8'	7.7'	N 18°59.9'	5.4'	58.3'
19	294°28.3'	107°31.7'	S 2°60.0'	218°27.4'	7.6'	N 19°05.3'	5.3'	58.3'
20	309°30.8'	122°31.9'	S 3°01.0'	232°54.0'	7.5'	N 19°10.6'	5.2'	58.3'
21	324°33.2'	137°32.1'	S 3°01.9'	247°20.6'	7.5'	N 19°15.8'	5.1'	58.4'
22	339°35.7'	152°32.3'	S 3°02.9'	261°47.0'	7.4'	N 19°20.9'	5.0'	58.4'
23	354°38.2'	167°32.5'	S 3°03.9'	276°13.5'	7.4'	N 19°25.9'	4.9'	58.4'