

Mon Oct 1, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 1.0' SD = 16.0'		SD = 16.0'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	9°40.6'	182°32.7'	S 3°04.8'	290°39.8'	7.3'	N 19°30.7'	4.7'	58.4'
1	24°43.1'	197°32.9'	S 3°05.8'	305°06.1'	7.2'	N 19°35.5'	4.6'	58.4'
2	39°45.6'	212°33.1'	S 3°06.8'	319°32.4'	7.2'	N 19°40.1'	4.5'	58.5'
3	54°48.0'	227°33.3'	S 3°07.7'	333°58.6'	7.1'	N 19°44.6'	4.4'	58.5'
4	69°50.5'	242°33.5'	S 3°08.7'	348°24.7'	7.1'	N 19°49.0'	4.3'	58.5'
5	84°52.9'	257°33.7'	S 3°09.7'	2°50.8'	7.0'	N 19°53.2'	4.1'	58.5'
6	99°55.4'	272°33.9'	S 3°10.7'	17°16.8'	7.0'	N 19°57.4'	4.0'	58.5'
7	114°57.9'	287°34.1'	S 3°11.6'	31°42.8'	6.9'	N 20°01.4'	3.9'	58.5'
8	130°00.3'	302°34.3'	S 3°12.6'	46°08.7'	6.9'	N 20°05.3'	3.8'	58.6'
9	145°02.8'	317°34.5'	S 3°13.6'	60°34.6'	6.8'	N 20°09.0'	3.6'	58.6'
10	160°05.3'	332°34.7'	S 3°14.5'	75°00.4'	6.8'	N 20°12.7'	3.5'	58.6'
11	175°07.7'	347°35.0'	S 3°15.5'	89°26.2'	6.7'	N 20°16.2'	3.4'	58.6'
12	190°10.2'	2°35.2'	S 3°16.5'	103°51.9'	6.7'	N 20°19.6'	3.3'	58.6'
13	205°12.7'	17°35.4'	S 3°17.4'	118°17.5'	6.6'	N 20°22.9'	3.1'	58.7'
14	220°15.1'	32°35.6'	S 3°18.4'	132°43.2'	6.6'	N 20°26.0'	3.0'	58.7'
15	235°17.6'	47°35.8'	S 3°19.4'	147°08.8'	6.5'	N 20°29.1'	2.9'	58.7'
16	250°20.0'	62°36.0'	S 3°20.3'	161°34.3'	6.5'	N 20°31.9'	2.8'	58.7'
17	265°22.5'	77°36.2'	S 3°21.3'	175°59.8'	6.4'	N 20°34.7'	2.6'	58.7'
18	280°25.0'	92°36.4'	S 3°22.3'	190°25.2'	6.4'	N 20°37.3'	2.5'	58.7'
19	295°27.4'	107°36.6'	S 3°23.2'	204°50.6'	6.4'	N 20°39.8'	2.4'	58.8'
20	310°29.9'	122°36.8'	S 3°24.2'	219°16.0'	6.3'	N 20°42.2'	2.2'	58.8'
21	325°32.4'	137°37.0'	S 3°25.2'	233°41.3'	6.3'	N 20°44.5'	2.1'	58.8'
22	340°34.8'	152°37.2'	S 3°26.2'	248°06.6'	6.2'	N 20°46.6'	2.0'	58.8'
23	355°37.3'	167°37.4'	S 3°27.1'	262°31.8'	6.2'	N 20°48.5'	1.8'	58.8'

Tue Oct 2, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 1.0' SD = 16.0'		SD = 16.1'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	10°39.8'	182°37.6'	S 3°28.1'	276°57.0'	6.2'	N 20°50.4'	1.7'	58.9'
1	25°42.2'	197°37.8'	S 3°29.1'	291°22.2'	6.1'	N 20°52.1'	1.6'	58.9'
2	40°44.7'	212°38.0'	S 3°30.0'	305°47.3'	6.1'	N 20°53.7'	1.4'	58.9'
3	55°47.2'	227°38.2'	S 3°31.0'	320°12.4'	6.1'	N 20°55.1'	1.3'	58.9'
4	70°49.6'	242°38.4'	S 3°32.0'	334°37.5'	6.0'	N 20°56.4'	1.2'	58.9'
5	85°52.1'	257°38.6'	S 3°32.9'	349°02.5'	6.0'	N 20°57.6'	1.0'	58.9'
6	100°54.5'	272°38.8'	S 3°33.9'	3°27.5'	6.0'	N 20°58.6'	0.9'	59.0'
7	115°57.0'	287°39.0'	S 3°34.9'	17°52.5'	5.9'	N 20°59.5'	0.8'	59.0'
8	130°59.5'	302°39.2'	S 3°35.8'	32°17.4'	5.9'	N 21°00.3'	0.6'	59.0'
9	146°01.9'	317°39.4'	S 3°36.8'	46°42.4'	5.9'	N 21°00.9'	0.5'	59.0'
10	161°04.4'	332°39.6'	S 3°37.8'	61°07.2'	5.9'	N 21°01.4'	0.4'	59.0'
11	176°06.9'	347°39.8'	S 3°38.7'	75°32.1'	5.8'	N 21°01.8'	0.2'	59.0'
12	191°09.3'	2°40.0'	S 3°39.7'	89°57.0'	5.8'	N 21°02.0'	0.1'	59.1'
13	206°11.8'	17°40.1'	S 3°40.7'	104°21.8'	5.8'	N 21°02.1'	0.1'	59.1'
14	221°14.3'	32°40.3'	S 3°41.6'	118°46.6'	5.8'	N 21°02.0'	0.2'	59.1'
15	236°16.7'	47°40.5'	S 3°42.6'	133°11.4'	5.8'	N 21°01.8'	0.3'	59.1'
16	251°19.2'	62°40.7'	S 3°43.6'	147°36.1'	5.7'	N 21°01.5'	0.5'	59.1'
17	266°21.7'	77°40.9'	S 3°44.5'	162°00.9'	5.7'	N 21°01.0'	0.6'	59.1'
18	281°24.1'	92°41.1'	S 3°45.5'	176°25.6'	5.7'	N 21°00.4'	0.8'	59.2'
19	296°26.6'	107°41.3'	S 3°46.5'	190°50.3'	5.7'	N 20°59.6'	0.9'	59.2'
20	311°29.0'	122°41.5'	S 3°47.4'	205°15.0'	5.7'	N 20°58.7'	1.0'	59.2'
21	326°31.5'	137°41.7'	S 3°48.4'	219°39.7'	5.7'	N 20°57.7'	1.2'	59.2'
22	341°34.0'	152°41.9'	S 3°49.4'	234°04.4'	5.7'	N 20°56.5'	1.3'	59.2'
23	356°36.4'	167°42.1'	S 3°50.3'	248°29.0'	5.7'	N 20°55.2'	1.5'	59.2'

Wed Oct 3, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 1.0' SD = 16.0'		SD = 16.2'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	11°38.9'	182°42.3'	S 3°51.3'	262°53.7'	5.6'	N 20°53.8'	1.6'	59.2'
1	26°41.4'	197°42.5'	S 3°52.3'	277°18.3'	5.6'	N 20°52.2'	1.7'	59.3'
2	41°43.8'	212°42.7'	S 3°53.2'	291°43.0'	5.6'	N 20°50.4'	1.9'	59.3'
3	56°46.3'	227°42.9'	S 3°54.2'	306°07.6'	5.6'	N 20°48.6'	2.0'	59.3'
4	71°48.8'	242°43.1'	S 3°55.2'	320°32.2'	5.6'	N 20°46.6'	2.1'	59.3'
5	86°51.2'	257°43.3'	S 3°56.1'	334°56.9'	5.6'	N 20°44.4'	2.3'	59.3'
6	101°53.7'	272°43.5'	S 3°57.1'	349°21.5'	5.6'	N 20°42.1'	2.4'	59.3'
7	116°56.2'	287°43.7'	S 3°58.1'	3°46.1'	5.6'	N 20°39.7'	2.6'	59.3'
8	131°58.6'	302°43.9'	S 3°59.0'	18°10.8'	5.6'	N 20°37.1'	2.7'	59.4'
9	147°01.1'	317°44.1'	S 4°00.0'	32°35.4'	5.6'	N 20°34.4'	2.8'	59.4'
10	162°03.5'	332°44.3'	S 4°01.0'	47°00.0'	5.6'	N 20°31.6'	3.0'	59.4'
11	177°06.0'	347°44.5'	S 4°01.9'	61°24.7'	5.7'	N 20°28.6'	3.1'	59.4'
12	192°08.5'	2°44.7'	S 4°02.9'	75°49.3'	5.7'	N 20°25.5'	3.3'	59.4'
13	207°10.9'	17°44.9'	S 4°03.9'	90°14.0'	5.7'	N 20°22.2'	3.4'	59.4'
14	222°13.4'	32°45.1'	S 4°04.8'	104°38.7'	5.7'	N 20°18.9'	3.5'	59.4'
15	237°15.9'	47°45.3'	S 4°05.8'	119°03.3'	5.7'	N 20°15.3'	3.7'	59.5'
16	252°18.3'	62°45.4'	S 4°06.8'	133°28.0'	5.7'	N 20°11.7'	3.8'	59.5'
17	267°20.8'	77°45.6'	S 4°07.7'	147°52.7'	5.7'	N 20°07.9'	3.9'	59.5'
18	282°23.3'	92°45.8'	S 4°08.7'	162°17.4'	5.7'	N 20°03.9'	4.1'	59.5'
19	297°25.7'	107°46.0'	S 4°09.7'	176°42.2'	5.7'	N 19°59.8'	4.2'	59.5'
20	312°28.2'	122°46.2'	S 4°10.6'	191°06.9'	5.8'	N 19°55.6'	4.3'	59.5'
21	327°30.6'	137°46.4'	S 4°11.6'	205°31.7'	5.8'	N 19°51.3'	4.5'	59.5'
22	342°33.1'	152°46.6'	S 4°12.6'	219°56.5'	5.8'	N 19°46.8'	4.6'	59.5'
23	357°35.6'	167°46.8'	S 4°13.5'	234°21.3'	5.8'	N 19°42.2'	4.7'	59.6'

Thu Oct 4, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 1.0' SD = 16.0'		SD = 16.3'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	12°38.0'	182°47.0'	S 4°14.5'	248°46.1'	5.8'	N 19°37.5'	4.9'	59.6'
1	27°40.5'	197°47.2'	S 4°15.4'	263°10.9'	5.9'	N 19°32.6'	5.0'	59.6'
2	42°43.0'	212°47.4'	S 4°16.4'	277°35.8'	5.9'	N 19°27.6'	5.1'	59.6'
3	57°45.4'	227°47.6'	S 4°17.4'	292°00.7'	5.9'	N 19°22.4'	5.3'	59.6'
4	72°47.9'	242°47.8'	S 4°18.3'	306°25.6'	5.9'	N 19°17.2'	5.4'	59.6'
5	87°50.4'	257°48.0'	S 4°19.3'	320°50.5'	6.0'	N 19°11.7'	5.5'	59.6'
6	102°52.8'	272°48.1'	S 4°20.3'	335°15.5'	6.0'	N 19°06.2'	5.7'	59.6'
7	117°55.3'	287°48.3'	S 4°21.2'	349°40.4'	6.0'	N 19°00.6'	5.8'	59.6'
8	132°57.8'	302°48.5'	S 4°22.2'	4°05.5'	6.0'	N 18°54.8'	5.9'	59.7'
9	148°00.2'	317°48.7'	S 4°23.2'	18°30.5'	6.1'	N 18°48.9'	6.0'	59.7'
10	163°02.7'	332°48.9'	S 4°24.1'	32°55.6'	6.1'	N 18°42.8'	6.2'	59.7'
11	178°05.1'	347°49.1'	S 4°25.1'	47°20.7'	6.1'	N 18°36.6'	6.3'	59.7'
12	193°07.6'	2°49.3'	S 4°26.0'	61°45.8'	6.2'	N 18°30.3'	6.4'	59.7'
13	208°10.1'	17°49.5'	S 4°27.0'	76°11.0'	6.2'	N 18°23.9'	6.5'	59.7'
14	223°12.5'	32°49.7'	S 4°28.0'	90°36.2'	6.2'	N 18°17.4'	6.7'	59.7'
15	238°15.0'	47°49.9'	S 4°28.9'	105°01.4'	6.3'	N 18°10.7'	6.8'	59.7'
16	253°17.5'	62°50.1'	S 4°29.9'	119°26.7'	6.3'	N 18°03.9'	6.9'	59.7'
17	268°19.9'	77°50.2'	S 4°30.9'	133°52.0'	6.3'	N 17°57.0'	7.0'	59.7'
18	283°22.4'	92°50.4'	S 4°31.8'	148°17.4'	6.4'	N 17°50.0'	7.1'	59.7'
19	298°24.9'	107°50.6'	S 4°32.8'	162°42.7'	6.4'	N 17°42.9'	7.3'	59.7'
20	313°27.3'	122°50.8'	S 4°33.8'	177°08.2'	6.5'	N 17°35.6'	7.4'	59.8'
21	328°29.8'	137°51.0'	S 4°34.7'	191°33.6'	6.5'	N 17°28.2'	7.5'	59.8'
22	343°32.3'	152°51.2'	S 4°35.7'	205°59.1'	6.5'	N 17°20.7'	7.6'	59.8'
23	358°34.7'	167°51.4'	S 4°36.6'	220°24.7'	6.6'	N 17°13.1'	7.7'	59.8'

Fri Oct 5, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 1.0' SD = 16.0'		SD = 16.3'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	13°37.2'	182°51.6'	S 4°37.6'	234°50.2'	6.6'	N 17°05.4'	7.8'	59.8'
1	28°39.6'	197°51.8'	S 4°38.6'	249°15.9'	6.7'	N 16°57.5'	8.0'	59.8'
2	43°42.1'	212°52.0'	S 4°39.5'	263°41.5'	6.7'	N 16°49.6'	8.1'	59.8'
3	58°44.6'	227°52.1'	S 4°40.5'	278°07.2'	6.7'	N 16°41.5'	8.2'	59.8'
4	73°47.0'	242°52.3'	S 4°41.5'	292°33.0'	6.8'	N 16°33.3'	8.3'	59.8'
5	88°49.5'	257°52.5'	S 4°42.4'	306°58.8'	6.8'	N 16°25.0'	8.4'	59.8'
6	103°52.0'	272°52.7'	S 4°43.4'	321°24.6'	6.9'	N 16°16.6'	8.5'	59.8'
7	118°54.4'	287°52.9'	S 4°44.3'	335°50.5'	6.9'	N 16°08.1'	8.6'	59.8'
8	133°56.9'	302°53.1'	S 4°45.3'	350°16.4'	7.0'	N 15°59.5'	8.7'	59.8'
9	148°59.4'	317°53.3'	S 4°46.3'	4°42.4'	7.0'	N 15°50.8'	8.8'	59.8'
10	164°01.8'	332°53.5'	S 4°47.2'	19°08.4'	7.1'	N 15°42.0'	8.9'	59.8'
11	179°04.3'	347°53.6'	S 4°48.2'	33°34.4'	7.1'	N 15°33.1'	9.0'	59.8'
12	194°06.8'	2°53.8'	S 4°49.1'	48°00.5'	7.2'	N 15°24.1'	9.1'	59.8'
13	209°09.2'	17°54.0'	S 4°50.1'	62°26.7'	7.2'	N 15°15.0'	9.2'	59.8'
14	224°11.7'	32°54.2'	S 4°51.1'	76°52.9'	7.2'	N 15°05.7'	9.3'	59.8'
15	239°14.1'	47°54.4'	S 4°52.0'	91°19.1'	7.3'	N 14°56.4'	9.4'	59.8'
16	254°16.6'	62°54.6'	S 4°53.0'	105°45.4'	7.3'	N 14°47.0'	9.5'	59.8'
17	269°19.1'	77°54.8'	S 4°54.0'	120°11.8'	7.4'	N 14°37.5'	9.6'	59.8'
18	284°21.5'	92°55.0'	S 4°54.9'	134°38.2'	7.4'	N 14°27.9'	9.7'	59.8'
19	299°24.0'	107°55.1'	S 4°55.9'	149°04.6'	7.5'	N 14°18.2'	9.8'	59.8'
20	314°26.5'	122°55.3'	S 4°56.8'	163°31.1'	7.5'	N 14°08.4'	9.9'	59.8'
21	329°28.9'	137°55.5'	S 4°57.8'	177°57.6'	7.6'	N 13°58.5'	10.0'	59.8'
22	344°31.4'	152°55.7'	S 4°58.8'	192°24.2'	7.6'	N 13°48.6'	10.1'	59.8'
23	359°33.9'	167°55.9'	S 4°59.7'	206°50.8'	7.7'	N 13°38.5'	10.1'	59.8'

Sat Oct 6, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 1.0' SD = 16.0'		SD = 16.3'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	14°36.3'	182°56.1'	S 5°00.7'	221°17.5'	7.7'	N 13°28.4'	10.2'	59.8'
1	29°38.8'	197°56.2'	S 5°01.6'	235°44.2'	7.8'	N 13°18.1'	10.3'	59.8'
2	44°41.2'	212°56.4'	S 5°02.6'	250°11.0'	7.8'	N 13°07.8'	10.4'	59.8'
3	59°43.7'	227°56.6'	S 5°03.6'	264°37.8'	7.9'	N 12°57.4'	10.5'	59.8'
4	74°46.2'	242°56.8'	S 5°04.5'	279°04.7'	7.9'	N 12°47.0'	10.6'	59.8'
5	89°48.6'	257°57.0'	S 5°05.5'	293°31.6'	8.0'	N 12°36.4'	10.6'	59.8'
6	104°51.1'	272°57.2'	S 5°06.4'	307°58.6'	8.0'	N 12°25.8'	10.7'	59.8'
7	119°53.6'	287°57.4'	S 5°07.4'	322°25.6'	8.1'	N 12°15.1'	10.8'	59.8'
8	134°56.0'	302°57.5'	S 5°08.4'	336°52.7'	8.1'	N 12°04.3'	10.9'	59.8'
9	149°58.5'	317°57.7'	S 5°09.3'	351°19.8'	8.2'	N 11°53.4'	10.9'	59.8'
10	165°01.0'	332°57.9'	S 5°10.3'	5°47.0'	8.2'	N 11°42.5'	11.0'	59.8'
11	180°03.4'	347°58.1'	S 5°11.2'	20°14.2'	8.3'	N 11°31.5'	11.1'	59.8'
12	195°05.9'	2°58.3'	S 5°12.2'	34°41.5'	8.3'	N 11°20.4'	11.1'	59.8'
13	210°08.4'	17°58.5'	S 5°13.1'	49°08.8'	8.4'	N 11°09.3'	11.2'	59.8'
14	225°10.8'	32°58.6'	S 5°14.1'	63°36.2'	8.4'	N 10°58.1'	11.3'	59.8'
15	240°13.3'	47°58.8'	S 5°15.1'	78°03.6'	8.5'	N 10°46.8'	11.3'	59.8'
16	255°15.7'	62°59.0'	S 5°16.0'	92°31.0'	8.5'	N 10°35.5'	11.4'	59.8'
17	270°18.2'	77°59.2'	S 5°17.0'	106°58.5'	8.6'	N 10°24.0'	11.5'	59.8'
18	285°20.7'	92°59.4'	S 5°17.9'	121°26.1'	8.6'	N 10°12.6'	11.5'	59.8'
19	300°23.1'	107°59.5'	S 5°18.9'	135°53.7'	8.6'	N 10°01.1'	11.6'	59.8'
20	315°25.6'	122°59.7'	S 5°19.9'	150°21.3'	8.7'	N 9°49.5'	11.6'	59.8'
21	330°28.1'	137°59.9'	S 5°20.8'	164°49.0'	8.7'	N 9°37.8'	11.7'	59.8'
22	345°30.5'	153°00.1'	S 5°21.8'	179°16.8'	8.8'	N 9°26.1'	11.8'	59.7'
23	0°33.0'	168°00.3'	S 5°22.7'	193°44.5'	8.8'	N 9°14.4'	11.8'	59.7'

Sun Oct 7, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 1.0' SD = 16.0'		SD = 16.3'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	15°35.5'	183°00.5'	S 5°23.7'	208°12.4'	8.9'	N 9°02.6'	11.9'	59.7'
1	30°37.9'	198°00.6'	S 5°24.6'	222°40.3'	8.9'	N 8°50.7'	11.9'	59.7'
2	45°40.4'	213°00.8'	S 5°25.6'	237°08.2'	9.0'	N 8°38.8'	12.0'	59.7'
3	60°42.8'	228°01.0'	S 5°26.6'	251°36.1'	9.0'	N 8°26.8'	12.0'	59.7'
4	75°45.3'	243°01.2'	S 5°27.5'	266°04.1'	9.1'	N 8°14.8'	12.1'	59.7'
5	90°47.8'	258°01.4'	S 5°28.5'	280°32.2'	9.1'	N 8°02.8'	12.1'	59.7'
6	105°50.2'	273°01.5'	S 5°29.4'	295°00.3'	9.1'	N 7°50.7'	12.1'	59.7'
7	120°52.7'	288°01.7'	S 5°30.4'	309°28.4'	9.2'	N 7°38.5'	12.2'	59.7'
8	135°55.2'	303°01.9'	S 5°31.3'	323°56.6'	9.2'	N 7°26.3'	12.2'	59.7'
9	150°57.6'	318°02.1'	S 5°32.3'	338°24.9'	9.3'	N 7°14.1'	12.3'	59.6'
10	166°00.1'	333°02.3'	S 5°33.3'	352°53.1'	9.3'	N 7°01.9'	12.3'	59.6'
11	181°02.6'	348°02.4'	S 5°34.2'	7°21.4'	9.4'	N 6°49.6'	12.3'	59.6'
12	196°05.0'	3°02.6'	S 5°35.2'	21°49.8'	9.4'	N 6°37.2'	12.4'	59.6'
13	211°07.5'	18°02.8'	S 5°36.1'	36°18.2'	9.4'	N 6°24.9'	12.4'	59.6'
14	226°10.0'	33°03.0'	S 5°37.1'	50°46.6'	9.5'	N 6°12.4'	12.4'	59.6'
15	241°12.4'	48°03.1'	S 5°38.0'	65°15.1'	9.5'	N 6°00.0'	12.5'	59.6'
16	256°14.9'	63°03.3'	S 5°39.0'	79°43.6'	9.6'	N 5°47.5'	12.5'	59.6'
17	271°17.3'	78°03.5'	S 5°39.9'	94°12.2'	9.6'	N 5°35.1'	12.5'	59.5'
18	286°19.8'	93°03.7'	S 5°40.9'	108°40.7'	9.6'	N 5°22.5'	12.5'	59.5'
19	301°22.3'	108°03.9'	S 5°41.9'	123°09.4'	9.7'	N 5°10.0'	12.6'	59.5'
20	316°24.7'	123°04.0'	S 5°42.8'	137°38.0'	9.7'	N 4°57.4'	12.6'	59.5'
21	331°27.2'	138°04.2'	S 5°43.8'	152°06.7'	9.7'	N 4°44.8'	12.6'	59.5'
22	346°29.7'	153°04.4'	S 5°44.7'	166°35.5'	9.8'	N 4°32.2'	12.6'	59.5'
23	1°32.1'	168°04.6'	S 5°45.7'	181°04.3'	9.8'	N 4°19.6'	12.7'	59.4'

Mon Oct 8, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 1.0' SD = 16.0'		SD = 16.2'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	16°34.6'	183°04.7'	S 5°46.6'	195°33.1'	9.8'	N 4°06.9'	12.7'	59.4'
1	31°37.1'	198°04.9'	S 5°47.6'	210°01.9'	9.9'	N 3°54.2'	12.7'	59.4'
2	46°39.5'	213°05.1'	S 5°48.5'	224°30.8'	9.9'	N 3°41.5'	12.7'	59.4'
3	61°42.0'	228°05.3'	S 5°49.5'	238°59.7'	9.9'	N 3°28.8'	12.7'	59.4'
4	76°44.4'	243°05.4'	S 5°50.4'	253°28.7'	10.0'	N 3°16.1'	12.7'	59.4'
5	91°46.9'	258°05.6'	S 5°51.4'	267°57.6'	10.0'	N 3°03.4'	12.7'	59.3'
6	106°49.4'	273°05.8'	S 5°52.4'	282°26.6'	10.0'	N 2°50.6'	12.8'	59.3'
7	121°51.8'	288°06.0'	S 5°53.3'	296°55.7'	10.1'	N 2°37.9'	12.8'	59.3'
8	136°54.3'	303°06.1'	S 5°54.3'	311°24.8'	10.1'	N 2°25.1'	12.8'	59.3'
9	151°56.8'	318°06.3'	S 5°55.2'	325°53.9'	10.1'	N 2°12.3'	12.8'	59.3'
10	166°59.2'	333°06.5'	S 5°56.2'	340°23.0'	10.2'	N 1°59.6'	12.8'	59.3'
11	182°01.7'	348°06.7'	S 5°57.1'	354°52.2'	10.2'	N 1°46.8'	12.8'	59.2'
12	197°04.2'	3°06.8'	S 5°58.1'	9°21.4'	10.2'	N 1°34.0'	12.8'	59.2'
13	212°06.6'	18°07.0'	S 5°59.0'	23°50.6'	10.3'	N 1°21.2'	12.8'	59.2'
14	227°09.1'	33°07.2'	S 5°60.0'	38°19.8'	10.3'	N 1°08.5'	12.8'	59.2'
15	242°11.6'	48°07.4'	S 6°00.9'	52°49.1'	10.3'	N 0°55.7'	12.8'	59.2'
16	257°14.0'	63°07.5'	S 6°01.9'	67°18.4'	10.3'	N 0°42.9'	12.8'	59.1'
17	272°16.5'	78°07.7'	S 6°02.8'	81°47.8'	10.4'	N 0°30.2'	12.8'	59.1'
18	287°18.9'	93°07.9'	S 6°03.8'	96°17.1'	10.4'	N 0°17.4'	12.8'	59.1'
19	302°21.4'	108°08.1'	S 6°04.7'	110°46.5'	10.4'	N 0°04.6'	12.7'	59.1'
20	317°23.9'	123°08.2'	S 6°05.7'	125°15.9'	10.4'	S 0°08.1'	12.7'	59.0'
21	332°26.3'	138°08.4'	S 6°06.6'	139°45.3'	10.5'	S 0°20.8'	12.7'	59.0'
22	347°28.8'	153°08.6'	S 6°07.6'	154°14.8'	10.5'	S 0°33.6'	12.7'	59.0'
23	2°31.3'	168°08.7'	S 6°08.5'	168°44.3'	10.5'	S 0°46.3'	12.7'	59.0'

Tue Oct 9, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 16.0'		SD = 16.0'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	17°33.7'	183°08.9'	S 6°09.5'	183°13.8'	10.5'	S 0°59.0'	12.7'	59.0'
1	32°36.2'	198°09.1'	S 6°10.4'	197°43.3'	10.5'	S 1°11.7'	12.7'	58.9'
2	47°38.7'	213°09.3'	S 6°11.4'	212°12.8'	10.6'	S 1°24.3'	12.7'	58.9'
3	62°41.1'	228°09.4'	S 6°12.3'	226°42.4'	10.6'	S 1°37.0'	12.6'	58.9'
4	77°43.6'	243°09.6'	S 6°13.3'	241°12.0'	10.6'	S 1°49.6'	12.6'	58.9'
5	92°46.1'	258°09.8'	S 6°14.3'	255°41.6'	10.6'	S 2°02.2'	12.6'	58.8'
6	107°48.5'	273°09.9'	S 6°15.2'	270°11.2'	10.6'	S 2°14.8'	12.6'	58.8'
7	122°51.0'	288°10.1'	S 6°16.2'	284°40.8'	10.7'	S 2°27.4'	12.5'	58.8'
8	137°53.4'	303°10.3'	S 6°17.1'	299°10.5'	10.7'	S 2°39.9'	12.5'	58.8'
9	152°55.9'	318°10.5'	S 6°18.1'	313°40.2'	10.7'	S 2°52.5'	12.5'	58.7'
10	167°58.4'	333°10.6'	S 6°19.0'	328°09.8'	10.7'	S 3°05.0'	12.5'	58.7'
11	183°00.8'	348°10.8'	S 6°20.0'	342°39.6'	10.7'	S 3°17.4'	12.4'	58.7'
12	198°03.3'	3°11.0'	S 6°20.9'	357°09.3'	10.7'	S 3°29.9'	12.4'	58.7'
13	213°05.8'	18°11.1'	S 6°21.8'	11°39.0'	10.8'	S 3°42.3'	12.4'	58.6'
14	228°08.2'	33°11.3'	S 6°22.8'	26°08.8'	10.8'	S 3°54.6'	12.3'	58.6'
15	243°10.7'	48°11.5'	S 6°23.7'	40°38.5'	10.8'	S 4°07.0'	12.3'	58.6'
16	258°13.2'	63°11.6'	S 6°24.7'	55°08.3'	10.8'	S 4°19.3'	12.3'	58.5'
17	273°15.6'	78°11.8'	S 6°25.6'	69°38.1'	10.8'	S 4°31.6'	12.2'	58.5'
18	288°18.1'	93°12.0'	S 6°26.6'	84°07.9'	10.8'	S 4°43.8'	12.2'	58.5'
19	303°20.5'	108°12.1'	S 6°27.5'	98°37.7'	10.8'	S 4°56.0'	12.2'	58.5'
20	318°23.0'	123°12.3'	S 6°28.5'	113°07.6'	10.8'	S 5°08.2'	12.1'	58.4'
21	333°25.5'	138°12.5'	S 6°29.4'	127°37.4'	10.9'	S 5°20.3'	12.1'	58.4'
22	348°27.9'	153°12.7'	S 6°30.4'	142°07.3'	10.9'	S 5°32.4'	12.0'	58.4'
23	3°30.4'	168°12.8'	S 6°31.3'	156°37.1'	10.9'	S 5°44.5'	12.0'	58.4'

Wed Oct 10, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 16.0'		SD = 15.8'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	18°32.9'	183°13.0'	S 6°32.3'	171°07.0'	10.9'	S 5°56.5'	12.0'	58.3'
1	33°35.3'	198°13.2'	S 6°33.2'	185°36.9'	10.9'	S 6°08.4'	11.9'	58.3'
2	48°37.8'	213°13.3'	S 6°34.2'	200°06.8'	10.9'	S 6°20.3'	11.9'	58.3'
3	63°40.3'	228°13.5'	S 6°35.1'	214°36.7'	10.9'	S 6°32.2'	11.8'	58.2'
4	78°42.7'	243°13.7'	S 6°36.1'	229°06.6'	10.9'	S 6°44.0'	11.8'	58.2'
5	93°45.2'	258°13.8'	S 6°37.0'	243°36.5'	10.9'	S 6°55.8'	11.7'	58.2'
6	108°47.7'	273°14.0'	S 6°38.0'	258°06.4'	10.9'	S 7°07.5'	11.7'	58.1'
7	123°50.1'	288°14.2'	S 6°38.9'	272°36.3'	10.9'	S 7°19.2'	11.6'	58.1'
8	138°52.6'	303°14.3'	S 6°39.9'	287°06.3'	10.9'	S 7°30.8'	11.6'	58.1'
9	153°55.0'	318°14.5'	S 6°40.8'	301°36.2'	10.9'	S 7°42.4'	11.5'	58.1'
10	168°57.5'	333°14.6'	S 6°41.8'	316°06.1'	10.9'	S 7°53.9'	11.5'	58.0'
11	183°60.0'	348°14.8'	S 6°42.7'	330°36.1'	11.0'	S 8°05.4'	11.4'	58.0'
12	199°02.4'	3°15.0'	S 6°43.6'	345°06.1'	11.0'	S 8°16.8'	11.4'	58.0'
13	214°04.9'	18°15.1'	S 6°44.6'	359°36.0'	11.0'	S 8°28.2'	11.3'	57.9'
14	229°07.4'	33°15.3'	S 6°45.5'	14°06.0'	11.0'	S 8°39.5'	11.2'	57.9'
15	244°09.8'	48°15.5'	S 6°46.5'	28°35.9'	11.0'	S 8°50.7'	11.2'	57.9'
16	259°12.3'	63°15.6'	S 6°47.4'	43°05.9'	11.0'	S 9°01.9'	11.1'	57.8'
17	274°14.8'	78°15.8'	S 6°48.4'	57°35.9'	11.0'	S 9°13.0'	11.1'	57.8'
18	289°17.2'	93°16.0'	S 6°49.3'	72°05.8'	11.0'	S 9°24.1'	11.0'	57.8'
19	304°19.7'	108°16.1'	S 6°50.3'	86°35.8'	11.0'	S 9°35.1'	10.9'	57.8'
20	319°22.1'	123°16.3'	S 6°51.2'	101°05.8'	11.0'	S 9°46.1'	10.9'	57.7'
21	334°24.6'	138°16.5'	S 6°52.2'	115°35.8'	11.0'	S 9°56.9'	10.8'	57.7'
22	349°27.1'	153°16.6'	S 6°53.1'	130°05.8'	11.0'	S 10°07.7'	10.7'	57.7'
23	4°29.5'	168°16.8'	S 6°54.0'	144°35.7'	11.0'	S 10°18.5'	10.7'	57.6'

Thu Oct 11, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 16.0'		SD = 15.6'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	19°32.0'	183°16.9'	S 6°55.0'	159°05.7'	11.0'	S 10°29.2'	10.6'	57.6'
1	34°34.5'	198°17.1'	S 6°55.9'	173°35.7'	11.0'	S 10°39.8'	10.5'	57.6'
2	49°36.9'	213°17.3'	S 6°56.9'	188°05.7'	11.0'	S 10°50.3'	10.5'	57.5'
3	64°39.4'	228°17.4'	S 6°57.8'	202°35.7'	11.0'	S 11°00.8'	10.4'	57.5'
4	79°41.9'	243°17.6'	S 6°58.8'	217°05.6'	11.0'	S 11°11.2'	10.3'	57.5'
5	94°44.3'	258°17.7'	S 6°59.7'	231°35.6'	11.0'	S 11°21.6'	10.3'	57.4'
6	109°46.8'	273°17.9'	S 7°00.6'	246°05.6'	11.0'	S 11°31.8'	10.2'	57.4'
7	124°49.3'	288°18.1'	S 7°01.6'	260°35.6'	11.0'	S 11°42.0'	10.1'	57.4'
8	139°51.7'	303°18.2'	S 7°02.5'	275°05.5'	11.0'	S 11°52.2'	10.1'	57.3'
9	154°54.2'	318°18.4'	S 7°03.5'	289°35.5'	11.0'	S 12°02.2'	10.0'	57.3'
10	169°56.6'	333°18.6'	S 7°04.4'	304°05.5'	11.0'	S 12°12.2'	9.9'	57.3'
11	184°59.1'	348°18.7'	S 7°05.4'	318°35.5'	11.0'	S 12°22.1'	9.8'	57.2'
12	200°01.6'	3°18.9'	S 7°06.3'	333°05.4'	11.0'	S 12°31.9'	9.8'	57.2'
13	215°04.0'	18°19.0'	S 7°07.2'	347°35.4'	11.0'	S 12°41.7'	9.7'	57.2'
14	230°06.5'	33°19.2'	S 7°08.2'	2°05.3'	11.0'	S 12°51.4'	9.6'	57.2'
15	245°09.0'	48°19.4'	S 7°09.1'	16°35.3'	11.0'	S 13°01.0'	9.5'	57.1'
16	260°11.4'	63°19.5'	S 7°10.1'	31°05.3'	11.0'	S 13°10.5'	9.4'	57.1'
17	275°13.9'	78°19.7'	S 7°11.0'	45°35.2'	10.9'	S 13°19.9'	9.4'	57.1'
18	290°16.4'	93°19.8'	S 7°12.0'	60°05.2'	10.9'	S 13°29.3'	9.3'	57.0'
19	305°18.8'	108°20.0'	S 7°12.9'	74°35.1'	10.9'	S 13°38.6'	9.2'	57.0'
20	320°21.3'	123°20.1'	S 7°13.8'	89°05.0'	10.9'	S 13°47.8'	9.1'	57.0'
21	335°23.7'	138°20.3'	S 7°14.8'	103°35.0'	10.9'	S 13°56.9'	9.0'	56.9'
22	350°26.2'	153°20.5'	S 7°15.7'	118°04.9'	10.9'	S 14°05.9'	9.0'	56.9'
23	5°28.7'	168°20.6'	S 7°16.7'	132°34.8'	10.9'	S 14°14.9'	8.9'	56.9'

Fri Oct 12, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 16.0'		SD = 15.4'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	20°31.1'	183°20.8'	S 7°17.6'	147°04.8'	10.9'	S 14°23.7'	8.8'	56.8'
1	35°33.6'	198°20.9'	S 7°18.5'	161°34.7'	10.9'	S 14°32.5'	8.7'	56.8'
2	50°36.1'	213°21.1'	S 7°19.5'	176°04.6'	10.9'	S 14°41.2'	8.6'	56.8'
3	65°38.5'	228°21.2'	S 7°20.4'	190°34.5'	10.9'	S 14°49.8'	8.5'	56.7'
4	80°41.0'	243°21.4'	S 7°21.4'	205°04.4'	10.9'	S 14°58.3'	8.4'	56.7'
5	95°43.5'	258°21.6'	S 7°22.3'	219°34.3'	10.9'	S 15°06.8'	8.4'	56.7'
6	110°45.9'	273°21.7'	S 7°23.2'	234°04.2'	10.9'	S 15°15.1'	8.3'	56.6'
7	125°48.4'	288°21.9'	S 7°24.2'	248°34.1'	10.9'	S 15°23.4'	8.2'	56.6'
8	140°50.9'	303°22.0'	S 7°25.1'	263°04.0'	10.9'	S 15°31.6'	8.1'	56.6'
9	155°53.3'	318°22.2'	S 7°26.0'	277°33.9'	10.9'	S 15°39.7'	8.0'	56.6'
10	170°55.8'	333°22.3'	S 7°27.0'	292°03.8'	10.9'	S 15°47.7'	7.9'	56.5'
11	185°58.2'	348°22.5'	S 7°27.9'	306°33.7'	10.9'	S 15°55.6'	7.8'	56.5'
12	201°00.7'	3°22.6'	S 7°28.9'	321°03.5'	10.9'	S 16°03.4'	7.7'	56.5'
13	216°03.2'	18°22.8'	S 7°29.8'	335°33.4'	10.9'	S 16°11.1'	7.6'	56.4'
14	231°05.6'	33°23.0'	S 7°30.7'	350°03.3'	10.9'	S 16°18.7'	7.5'	56.4'
15	246°08.1'	48°23.1'	S 7°31.7'	4°33.2'	10.9'	S 16°26.3'	7.5'	56.4'
16	261°10.6'	63°23.3'	S 7°32.6'	19°03.0'	10.9'	S 16°33.7'	7.4'	56.3'
17	276°13.0'	78°23.4'	S 7°33.5'	33°32.9'	10.9'	S 16°41.1'	7.3'	56.3'
18	291°15.5'	93°23.6'	S 7°34.5'	48°02.7'	10.8'	S 16°48.4'	7.2'	56.3'
19	306°18.0'	108°23.7'	S 7°35.4'	62°32.6'	10.8'	S 16°55.5'	7.1'	56.2'
20	321°20.4'	123°23.9'	S 7°36.4'	77°02.4'	10.8'	S 17°02.6'	7.0'	56.2'
21	336°22.9'	138°24.0'	S 7°37.3'	91°32.3'	10.8'	S 17°09.6'	6.9'	56.2'
22	351°25.4'	153°24.2'	S 7°38.2'	106°02.1'	10.8'	S 17°16.5'	6.8'	56.2'
23	6°27.8'	168°24.3'	S 7°39.2'	120°31.9'	10.8'	S 17°23.3'	6.7'	56.1'

Sat Oct 13, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 16.0'		SD = 15.2'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	21°30.3'	183°24.5'	S 7°40.1'	135°01.8'	10.8'	S 17°30.0'	6.6'	56.1'
1	36°32.7'	198°24.6'	S 7°41.0'	149°31.6'	10.8'	S 17°36.6'	6.5'	56.1'
2	51°35.2'	213°24.8'	S 7°42.0'	164°01.4'	10.8'	S 17°43.1'	6.4'	56.0'
3	66°37.7'	228°24.9'	S 7°42.9'	178°31.3'	10.8'	S 17°49.5'	6.3'	56.0'
4	81°40.1'	243°25.1'	S 7°43.8'	193°01.1'	10.8'	S 17°55.8'	6.2'	56.0'
5	96°42.6'	258°25.2'	S 7°44.8'	207°30.9'	10.8'	S 18°02.0'	6.1'	56.0'
6	111°45.1'	273°25.4'	S 7°45.7'	222°00.7'	10.8'	S 18°08.1'	6.0'	55.9'
7	126°47.5'	288°25.5'	S 7°46.6'	236°30.5'	10.8'	S 18°14.1'	5.9'	55.9'
8	141°50.0'	303°25.7'	S 7°47.6'	251°00.4'	10.8'	S 18°20.1'	5.8'	55.9'
9	156°52.5'	318°25.9'	S 7°48.5'	265°30.2'	10.8'	S 18°25.9'	5.7'	55.8'
10	171°54.9'	333°26.0'	S 7°49.4'	280°00.0'	10.8'	S 18°31.6'	5.6'	55.8'
11	186°57.4'	348°26.2'	S 7°50.4'	294°29.8'	10.8'	S 18°37.2'	5.5'	55.8'
12	201°59.9'	3°26.3'	S 7°51.3'	308°59.6'	10.8'	S 18°42.7'	5.4'	55.8'
13	217°02.3'	18°26.4'	S 7°52.3'	323°29.4'	10.8'	S 18°48.2'	5.3'	55.7'
14	232°04.8'	33°26.6'	S 7°53.2'	337°59.3'	10.8'	S 18°53.5'	5.2'	55.7'
15	247°07.2'	48°26.7'	S 7°54.1'	352°29.1'	10.8'	S 18°58.7'	5.1'	55.7'
16	262°09.7'	63°26.9'	S 7°55.0'	6°58.9'	10.8'	S 19°03.8'	5.0'	55.6'
17	277°12.2'	78°27.0'	S 7°56.0'	21°28.7'	10.8'	S 19°08.8'	4.9'	55.6'
18	292°14.6'	93°27.2'	S 7°56.9'	35°58.5'	10.8'	S 19°13.8'	4.8'	55.6'
19	307°17.1'	108°27.3'	S 7°57.8'	50°28.4'	10.8'	S 19°18.6'	4.7'	55.6'
20	322°19.6'	123°27.5'	S 7°58.8'	64°58.2'	10.8'	S 19°23.3'	4.6'	55.5'
21	337°22.0'	138°27.6'	S 7°59.7'	79°28.0'	10.8'	S 19°27.9'	4.5'	55.5'
22	352°24.5'	153°27.8'	S 8°00.6'	93°57.8'	10.8'	S 19°32.4'	4.4'	55.5'
23	7°27.0'	168°27.9'	S 8°01.6'	108°27.7'	10.8'	S 19°36.8'	4.3'	55.5'

Sun Oct 14, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 16.0'		SD = 15.1'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	22°29.4'	183°28.1'	S 8°02.5'	122°57.5'	10.8'	S 19°41.1'	4.2'	55.4'
1	37°31.9'	198°28.2'	S 8°03.4'	137°27.3'	10.8'	S 19°45.4'	4.1'	55.4'
2	52°34.3'	213°28.4'	S 8°04.4'	151°57.2'	10.8'	S 19°49.5'	4.0'	55.4'
3	67°36.8'	228°28.5'	S 8°05.3'	166°27.0'	10.8'	S 19°53.5'	3.9'	55.4'
4	82°39.3'	243°28.7'	S 8°06.2'	180°56.9'	10.9'	S 19°57.4'	3.8'	55.3'
5	97°41.7'	258°28.8'	S 8°07.2'	195°26.7'	10.9'	S 20°01.2'	3.7'	55.3'
6	112°44.2'	273°29.0'	S 8°08.1'	209°56.6'	10.9'	S 20°04.8'	3.6'	55.3'
7	127°46.7'	288°29.1'	S 8°09.0'	224°26.4'	10.9'	S 20°08.4'	3.5'	55.3'
8	142°49.1'	303°29.2'	S 8°09.9'	238°56.3'	10.9'	S 20°11.9'	3.4'	55.2'
9	157°51.6'	318°29.4'	S 8°10.9'	253°26.2'	10.9'	S 20°15.3'	3.3'	55.2'
10	172°54.1'	333°29.5'	S 8°11.8'	267°56.1'	10.9'	S 20°18.6'	3.2'	55.2'
11	187°56.5'	348°29.7'	S 8°12.7'	282°26.0'	10.9'	S 20°21.8'	3.1'	55.2'
12	202°59.0'	3°29.8'	S 8°13.7'	296°55.9'	10.9'	S 20°24.8'	3.0'	55.2'
13	218°01.5'	18°30.0'	S 8°14.6'	311°25.8'	10.9'	S 20°27.8'	2.9'	55.1'
14	233°03.9'	33°30.1'	S 8°15.5'	325°55.7'	10.9'	S 20°30.7'	2.8'	55.1'
15	248°06.4'	48°30.3'	S 8°16.4'	340°25.6'	10.9'	S 20°33.5'	2.7'	55.1'
16	263°08.8'	63°30.4'	S 8°17.4'	354°55.5'	10.9'	S 20°36.1'	2.6'	55.1'
17	278°11.3'	78°30.5'	S 8°18.3'	9°25.5'	10.9'	S 20°38.7'	2.5'	55.0'
18	293°13.8'	93°30.7'	S 8°19.2'	23°55.4'	11.0'	S 20°41.1'	2.4'	55.0'
19	308°16.2'	108°30.8'	S 8°20.2'	38°25.4'	11.0'	S 20°43.5'	2.2'	55.0'
20	323°18.7'	123°31.0'	S 8°21.1'	52°55.3'	11.0'	S 20°45.7'	2.1'	55.0'
21	338°21.2'	138°31.1'	S 8°22.0'	67°25.3'	11.0'	S 20°47.9'	2.0'	55.0'
22	353°23.6'	153°31.3'	S 8°22.9'	81°55.3'	11.0'	S 20°49.9'	1.9'	54.9'
23	8°26.1'	168°31.4'	S 8°23.9'	96°25.3'	11.0'	S 20°51.8'	1.8'	54.9'

Mon Oct 15, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 16.0'		SD = 14.9'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	23°28.6'	183°31.5'	S 8°24.8'	110°55.3'	11.0'	S 20°53.7'	1.7'	54.9'
1	38°31.0'	198°31.7'	S 8°25.7'	125°25.3'	11.0'	S 20°55.4'	1.6'	54.9'
2	53°33.5'	213°31.8'	S 8°26.6'	139°55.4'	11.1'	S 20°57.0'	1.5'	54.9'
3	68°36.0'	228°32.0'	S 8°27.6'	154°25.4'	11.1'	S 20°58.6'	1.4'	54.8'
4	83°38.4'	243°32.1'	S 8°28.5'	168°55.5'	11.1'	S 20°60.0'	1.3'	54.8'
5	98°40.9'	258°32.2'	S 8°29.4'	183°25.6'	11.1'	S 21°01.3'	1.2'	54.8'
6	113°43.3'	273°32.4'	S 8°30.3'	197°55.7'	11.1'	S 21°02.5'	1.1'	54.8'
7	128°45.8'	288°32.5'	S 8°31.3'	212°25.8'	11.1'	S 21°03.6'	1.0'	54.8'
8	143°48.3'	303°32.7'	S 8°32.2'	226°55.9'	11.1'	S 21°04.6'	0.9'	54.8'
9	158°50.7'	318°32.8'	S 8°33.1'	241°26.0'	11.2'	S 21°05.6'	0.8'	54.7'
10	173°53.2'	333°32.9'	S 8°34.0'	255°56.2'	11.2'	S 21°06.4'	0.7'	54.7'
11	188°55.7'	348°33.1'	S 8°35.0'	270°26.4'	11.2'	S 21°07.1'	0.6'	54.7'
12	203°58.1'	3°33.2'	S 8°35.9'	284°56.5'	11.2'	S 21°07.7'	0.5'	54.7'
13	219°00.6'	18°33.4'	S 8°36.8'	299°26.7'	11.2'	S 21°08.2'	0.4'	54.7'
14	234°03.1'	33°33.5'	S 8°37.7'	313°57.0'	11.2'	S 21°08.6'	0.3'	54.7'
15	249°05.5'	48°33.6'	S 8°38.7'	328°27.2'	11.3'	S 21°08.9'	0.2'	54.6'
16	264°08.0'	63°33.8'	S 8°39.6'	342°57.5'	11.3'	S 21°09.1'	0.1'	54.6'
17	279°10.4'	78°33.9'	S 8°40.5'	357°27.7'	11.3'	S 21°09.1'	0.0'	54.6'
18	294°12.9'	93°34.0'	S 8°41.4'	11°58.0'	11.3'	S 21°09.1'	0.1'	54.6'
19	309°15.4'	108°34.2'	S 8°42.4'	26°28.3'	11.3'	S 21°09.0'	0.2'	54.6'
20	324°17.8'	123°34.3'	S 8°43.3'	40°58.7'	11.3'	S 21°08.8'	0.3'	54.6'
21	339°20.3'	138°34.5'	S 8°44.2'	55°29.0'	11.4'	S 21°08.5'	0.4'	54.6'
22	354°22.8'	153°34.6'	S 8°45.1'	69°59.4'	11.4'	S 21°08.1'	0.5'	54.5'
23	9°25.2'	168°34.7'	S 8°46.0'	84°29.8'	11.4'	S 21°07.6'	0.6'	54.5'

Tue Oct 16, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 16.0'		SD = 14.8'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	24°27.7'	183°34.9'	S 8°47.0'	99°00.2'	11.4'	S 21°07.0'	0.7'	54.5'
1	39°30.2'	198°35.0'	S 8°47.9'	113°30.6'	11.5'	S 21°06.2'	0.8'	54.5'
2	54°32.6'	213°35.1'	S 8°48.8'	128°01.1'	11.5'	S 21°05.4'	0.9'	54.5'
3	69°35.1'	228°35.3'	S 8°49.7'	142°31.5'	11.5'	S 21°04.5'	1.0'	54.5'
4	84°37.6'	243°35.4'	S 8°50.6'	157°02.0'	11.5'	S 21°03.5'	1.1'	54.5'
5	99°40.0'	258°35.5'	S 8°51.6'	171°32.5'	11.5'	S 21°02.4'	1.2'	54.5'
6	114°42.5'	273°35.7'	S 8°52.5'	186°03.1'	11.6'	S 21°01.2'	1.3'	54.4'
7	129°44.9'	288°35.8'	S 8°53.4'	200°33.6'	11.6'	S 20°59.9'	1.4'	54.4'
8	144°47.4'	303°35.9'	S 8°54.3'	215°04.2'	11.6'	S 20°58.5'	1.5'	54.4'
9	159°49.9'	318°36.1'	S 8°55.2'	229°34.8'	11.6'	S 20°57.0'	1.6'	54.4'
10	174°52.3'	333°36.2'	S 8°56.2'	244°05.5'	11.7'	S 20°55.4'	1.7'	54.4'
11	189°54.8'	348°36.3'	S 8°57.1'	258°36.1'	11.7'	S 20°53.7'	1.8'	54.4'
12	204°57.3'	3°36.5'	S 8°58.0'	273°06.8'	11.7'	S 20°51.9'	1.9'	54.4'
13	219°59.7'	18°36.6'	S 8°58.9'	287°37.5'	11.7'	S 20°50.0'	2.0'	54.4'
14	235°02.2'	33°36.7'	S 8°59.8'	302°08.2'	11.8'	S 20°48.0'	2.1'	54.4'
15	250°04.7'	48°36.9'	S 9°00.8'	316°39.0'	11.8'	S 20°45.9'	2.2'	54.4'
16	265°07.1'	63°37.0'	S 9°01.7'	331°09.8'	11.8'	S 20°43.7'	2.3'	54.3'
17	280°09.6'	78°37.1'	S 9°02.6'	345°40.6'	11.8'	S 20°41.4'	2.4'	54.3'
18	295°12.1'	93°37.3'	S 9°03.5'	0°11.4'	11.9'	S 20°39.0'	2.5'	54.3'
19	310°14.5'	108°37.4'	S 9°04.4'	14°42.2'	11.9'	S 20°36.6'	2.6'	54.3'
20	325°17.0'	123°37.5'	S 9°05.3'	29°13.1'	11.9'	S 20°34.0'	2.7'	54.3'
21	340°19.4'	138°37.7'	S 9°06.3'	43°44.0'	11.9'	S 20°31.3'	2.8'	54.3'
22	355°21.9'	153°37.8'	S 9°07.2'	58°15.0'	12.0'	S 20°28.6'	2.8'	54.3'
23	10°24.4'	168°37.9'	S 9°08.1'	72°45.9'	12.0'	S 20°25.7'	2.9'	54.3'



Wed Oct 17, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 16.0'		SD = 14.8'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	25°26.8'	183°38.0'	S 9°09.0'	87°16.9'	12.0'	S 20°22.8'	3.0'	54.3'
1	40°29.3'	198°38.2'	S 9°09.9'	101°47.9'	12.0'	S 20°19.8'	3.1'	54.3'
2	55°31.8'	213°38.3'	S 9°10.8'	116°19.0'	12.1'	S 20°16.6'	3.2'	54.3'
3	70°34.2'	228°38.4'	S 9°11.8'	130°50.0'	12.1'	S 20°13.4'	3.3'	54.3'
4	85°36.7'	243°38.6'	S 9°12.7'	145°21.1'	12.1'	S 20°10.1'	3.4'	54.3'
5	100°39.2'	258°38.7'	S 9°13.6'	159°52.2'	12.1'	S 20°06.7'	3.5'	54.3'
6	115°41.6'	273°38.8'	S 9°14.5'	174°23.4'	12.2'	S 20°03.2'	3.6'	54.3'
7	130°44.1'	288°38.9'	S 9°15.4'	188°54.6'	12.2'	S 19°59.6'	3.7'	54.3'
8	145°46.6'	303°39.1'	S 9°16.3'	203°25.8'	12.2'	S 19°55.9'	3.8'	54.3'
9	160°49.0'	318°39.2'	S 9°17.2'	217°57.0'	12.3'	S 19°52.1'	3.9'	54.3'
10	175°51.5'	333°39.3'	S 9°18.2'	232°28.3'	12.3'	S 19°48.3'	4.0'	54.3'
11	190°53.9'	348°39.5'	S 9°19.1'	246°59.5'	12.3'	S 19°44.3'	4.0'	54.3'
12	205°56.4'	3°39.6'	S 9°20.0'	261°30.9'	12.3'	S 19°40.3'	4.1'	54.2'
13	220°58.9'	18°39.7'	S 9°20.9'	276°02.2'	12.4'	S 19°36.2'	4.2'	54.2'
14	236°01.3'	33°39.8'	S 9°21.8'	290°33.6'	12.4'	S 19°31.9'	4.3'	54.2'
15	251°03.8'	48°40.0'	S 9°22.7'	305°05.0'	12.4'	S 19°27.6'	4.4'	54.2'
16	266°06.3'	63°40.1'	S 9°23.6'	319°36.4'	12.5'	S 19°23.2'	4.5'	54.2'
17	281°08.7'	78°40.2'	S 9°24.5'	334°07.9'	12.5'	S 19°18.8'	4.6'	54.2'
18	296°11.2'	93°40.3'	S 9°25.5'	348°39.3'	12.5'	S 19°14.2'	4.7'	54.2'
19	311°13.7'	108°40.5'	S 9°26.4'	3°10.9'	12.5'	S 19°09.5'	4.7'	54.2'
20	326°16.1'	123°40.6'	S 9°27.3'	17°42.4'	12.6'	S 19°04.8'	4.8'	54.2'
21	341°18.6'	138°40.7'	S 9°28.2'	32°14.0'	12.6'	S 18°59.9'	4.9'	54.2'
22	356°21.0'	153°40.8'	S 9°29.1'	46°45.6'	12.6'	S 18°55.0'	5.0'	54.2'
23	11°23.5'	168°41.0'	S 9°30.0'	61°17.2'	12.7'	S 18°50.0'	5.1'	54.2'

Thu Oct 18, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 16.1'		SD = 14.8'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	26°26.0'	183°41.1'	S 9°30.9'	75°48.9'	12.7'	S 18°44.9'	5.2'	54.2'
1	41°28.4'	198°41.2'	S 9°31.8'	90°20.5'	12.7'	S 18°39.8'	5.3'	54.2'
2	56°30.9'	213°41.3'	S 9°32.7'	104°52.2'	12.7'	S 18°34.5'	5.3'	54.3'
3	71°33.4'	228°41.5'	S 9°33.6'	119°24.0'	12.8'	S 18°29.2'	5.4'	54.3'
4	86°35.8'	243°41.6'	S 9°34.6'	133°55.8'	12.8'	S 18°23.8'	5.5'	54.3'
5	101°38.3'	258°41.7'	S 9°35.5'	148°27.6'	12.8'	S 18°18.2'	5.6'	54.3'
6	116°40.8'	273°41.8'	S 9°36.4'	162°59.4'	12.9'	S 18°12.7'	5.7'	54.3'
7	131°43.2'	288°41.9'	S 9°37.3'	177°31.2'	12.9'	S 18°07.0'	5.8'	54.3'
8	146°45.7'	303°42.1'	S 9°38.2'	192°03.1'	12.9'	S 18°01.2'	5.8'	54.3'
9	161°48.2'	318°42.2'	S 9°39.1'	206°35.0'	12.9'	S 17°55.4'	5.9'	54.3'
10	176°50.6'	333°42.3'	S 9°40.0'	221°07.0'	13.0'	S 17°49.5'	6.0'	54.3'
11	191°53.1'	348°42.4'	S 9°40.9'	235°38.9'	13.0'	S 17°43.5'	6.1'	54.3'
12	206°55.5'	3°42.6'	S 9°41.8'	250°10.9'	13.0'	S 17°37.4'	6.2'	54.3'
13	221°58.0'	18°42.7'	S 9°42.7'	264°42.9'	13.0'	S 17°31.3'	6.2'	54.3'
14	237°00.5'	33°42.8'	S 9°43.6'	279°15.0'	13.1'	S 17°25.0'	6.3'	54.3'
15	252°02.9'	48°42.9'	S 9°44.5'	293°47.1'	13.1'	S 17°18.7'	6.4'	54.3'
16	267°05.4'	63°43.0'	S 9°45.4'	308°19.2'	13.1'	S 17°12.3'	6.5'	54.3'
17	282°07.9'	78°43.2'	S 9°46.4'	322°51.3'	13.2'	S 17°05.9'	6.5'	54.3'
18	297°10.3'	93°43.3'	S 9°47.3'	337°23.4'	13.2'	S 16°59.3'	6.6'	54.3'
19	312°12.8'	108°43.4'	S 9°48.2'	351°55.6'	13.2'	S 16°52.7'	6.7'	54.3'
20	327°15.3'	123°43.5'	S 9°49.1'	6°27.8'	13.2'	S 16°46.0'	6.8'	54.3'
21	342°17.7'	138°43.6'	S 9°50.0'	21°00.1'	13.3'	S 16°39.2'	6.8'	54.3'
22	357°20.2'	153°43.7'	S 9°50.9'	35°32.3'	13.3'	S 16°32.4'	6.9'	54.4'
23	12°22.7'	168°43.9'	S 9°51.8'	50°04.6'	13.3'	S 16°25.5'	7.0'	54.4'

Fri Oct 19, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 16.1'		SD = 14.9'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	27°25.1'	183°44.0'	S 9°52.7'	64°36.9'	13.3'	S 16°18.5'	7.1'	54.4'
1	42°27.6'	198°44.1'	S 9°53.6'	79°09.2'	13.4'	S 16°11.4'	7.1'	54.4'
2	57°30.0'	213°44.2'	S 9°54.5'	93°41.6'	13.4'	S 16°04.2'	7.2'	54.4'
3	72°32.5'	228°44.3'	S 9°55.4'	108°14.0'	13.4'	S 15°57.0'	7.3'	54.4'
4	87°35.0'	243°44.5'	S 9°56.3'	122°46.4'	13.4'	S 15°49.7'	7.4'	54.4'
5	102°37.4'	258°44.6'	S 9°57.2'	137°18.8'	13.5'	S 15°42.4'	7.4'	54.4'
6	117°39.9'	273°44.7'	S 9°58.1'	151°51.3'	13.5'	S 15°34.9'	7.5'	54.4'
7	132°42.4'	288°44.8'	S 9°59.0'	166°23.7'	13.5'	S 15°27.4'	7.6'	54.4'
8	147°44.8'	303°44.9'	S 9°59.9'	180°56.2'	13.5'	S 15°19.9'	7.6'	54.4'
9	162°47.3'	318°45.0'	S 10°00.8'	195°28.8'	13.5'	S 15°12.2'	7.7'	54.5'
10	177°49.8'	333°45.1'	S 10°01.7'	210°01.3'	13.6'	S 15°04.5'	7.8'	54.5'
11	192°52.2'	348°45.3'	S 10°02.6'	224°33.9'	13.6'	S 14°56.7'	7.9'	54.5'
12	207°54.7'	3°45.4'	S 10°03.5'	239°06.5'	13.6'	S 14°48.8'	7.9'	54.5'
13	222°57.1'	18°45.5'	S 10°04.4'	253°39.1'	13.6'	S 14°40.9'	8.0'	54.5'
14	237°59.6'	33°45.6'	S 10°05.3'	268°11.7'	13.7'	S 14°32.9'	8.1'	54.5'
15	253°02.1'	48°45.7'	S 10°06.2'	282°44.4'	13.7'	S 14°24.9'	8.1'	54.5'
16	268°04.5'	63°45.8'	S 10°07.1'	297°17.0'	13.7'	S 14°16.8'	8.2'	54.5'
17	283°07.0'	78°45.9'	S 10°08.0'	311°49.7'	13.7'	S 14°08.6'	8.3'	54.6'
18	298°09.5'	93°46.1'	S 10°08.9'	326°22.4'	13.7'	S 14°00.3'	8.3'	54.6'
19	313°11.9'	108°46.2'	S 10°09.8'	340°55.2'	13.8'	S 13°52.0'	8.4'	54.6'
20	328°14.4'	123°46.3'	S 10°10.7'	355°27.9'	13.8'	S 13°43.6'	8.5'	54.6'
21	343°16.9'	138°46.4'	S 10°11.6'	10°00.7'	13.8'	S 13°35.1'	8.5'	54.6'
22	358°19.3'	153°46.5'	S 10°12.5'	24°33.5'	13.8'	S 13°26.6'	8.6'	54.6'
23	13°21.8'	168°46.6'	S 10°13.4'	39°06.3'	13.8'	S 13°18.1'	8.6'	54.6'

Sat Oct 20, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 16.1'		SD = 15.0'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	28°24.3'	183°46.7'	S 10°14.3'	53°39.1'	13.8'	S 13°09.4'	8.7'	54.6'
1	43°26.7'	198°46.8'	S 10°15.2'	68°12.0'	13.9'	S 13°00.7'	8.8'	54.7'
2	58°29.2'	213°46.9'	S 10°16.1'	82°44.8'	13.9'	S 12°51.9'	8.8'	54.7'
3	73°31.6'	228°47.1'	S 10°17.0'	97°17.7'	13.9'	S 12°43.1'	8.9'	54.7'
4	88°34.1'	243°47.2'	S 10°17.9'	111°50.6'	13.9'	S 12°34.2'	8.9'	54.7'
5	103°36.6'	258°47.3'	S 10°18.8'	126°23.5'	13.9'	S 12°25.3'	9.0'	54.7'
6	118°39.0'	273°47.4'	S 10°19.7'	140°56.4'	13.9'	S 12°16.3'	9.1'	54.7'
7	133°41.5'	288°47.5'	S 10°20.6'	155°29.3'	13.9'	S 12°07.2'	9.1'	54.8'
8	148°44.0'	303°47.6'	S 10°21.5'	170°02.3'	14.0'	S 11°58.1'	9.2'	54.8'
9	163°46.4'	318°47.7'	S 10°22.4'	184°35.2'	14.0'	S 11°48.9'	9.2'	54.8'
10	178°48.9'	333°47.8'	S 10°23.3'	199°08.2'	14.0'	S 11°39.7'	9.3'	54.8'
11	193°51.4'	348°47.9'	S 10°24.2'	213°41.2'	14.0'	S 11°30.4'	9.4'	54.8'
12	208°53.8'	3°48.0'	S 10°25.1'	228°14.2'	14.0'	S 11°21.0'	9.4'	54.8'
13	223°56.3'	18°48.1'	S 10°26.0'	242°47.2'	14.0'	S 11°11.6'	9.5'	54.9'
14	238°58.7'	33°48.3'	S 10°26.9'	257°20.2'	14.0'	S 11°02.2'	9.5'	54.9'
15	254°01.2'	48°48.4'	S 10°27.8'	271°53.3'	14.0'	S 10°52.6'	9.6'	54.9'
16	269°03.7'	63°48.5'	S 10°28.6'	286°26.3'	14.1'	S 10°43.1'	9.6'	54.9'
17	284°06.1'	78°48.6'	S 10°29.5'	300°59.4'	14.1'	S 10°33.5'	9.7'	54.9'
18	299°08.6'	93°48.7'	S 10°30.4'	315°32.4'	14.1'	S 10°23.8'	9.7'	54.9'
19	314°11.1'	108°48.8'	S 10°31.3'	330°05.5'	14.1'	S 10°14.1'	9.8'	55.0'
20	329°13.5'	123°48.9'	S 10°32.2'	344°38.6'	14.1'	S 10°04.3'	9.8'	55.0'
21	344°16.0'	138°49.0'	S 10°33.1'	359°11.7'	14.1'	S 9°54.4'	9.9'	55.0'
22	359°18.5'	153°49.1'	S 10°34.0'	13°44.8'	14.1'	S 9°44.6'	9.9'	55.0'
23	14°20.9'	168°49.2'	S 10°34.9'	28°17.9'	14.1'	S 9°34.6'	10.0'	55.0'

## Sun Oct 21, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 16.1'		SD = 15.1'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	29°23.4'	183°49.3'	S 10°35.8'	42°51.0'	14.1'	S 9°24.6'	10.0'	55.1'
1	44°25.9'	198°49.4'	S 10°36.7'	57°24.1'	14.1'	S 9°14.6'	10.1'	55.1'
2	59°28.3'	213°49.5'	S 10°37.6'	71°57.2'	14.1'	S 9°04.5'	10.1'	55.1'
3	74°30.8'	228°49.6'	S 10°38.5'	86°30.3'	14.1'	S 8°54.4'	10.2'	55.1'
4	89°33.2'	243°49.7'	S 10°39.4'	101°03.4'	14.1'	S 8°44.2'	10.2'	55.1'
5	104°35.7'	258°49.8'	S 10°40.2'	115°36.6'	14.1'	S 8°34.0'	10.3'	55.2'
6	119°38.2'	273°49.9'	S 10°41.1'	130°09.7'	14.1'	S 8°23.8'	10.3'	55.2'
7	134°40.6'	288°50.0'	S 10°42.0'	144°42.8'	14.1'	S 8°13.5'	10.4'	55.2'
8	149°43.1'	303°50.1'	S 10°42.9'	159°16.0'	14.1'	S 8°03.1'	10.4'	55.2'
9	164°45.6'	318°50.2'	S 10°43.8'	173°49.1'	14.1'	S 7°52.7'	10.4'	55.2'
10	179°48.0'	333°50.3'	S 10°44.7'	188°22.2'	14.1'	S 7°42.3'	10.5'	55.3'
11	194°50.5'	348°50.4'	S 10°45.6'	202°55.4'	14.1'	S 7°31.8'	10.5'	55.3'
12	209°53.0'	3°50.5'	S 10°46.5'	217°28.5'	14.1'	S 7°21.3'	10.6'	55.3'
13	224°55.4'	18°50.6'	S 10°47.4'	232°01.6'	14.1'	S 7°10.7'	10.6'	55.3'
14	239°57.9'	33°50.7'	S 10°48.2'	246°34.8'	14.1'	S 7°00.1'	10.6'	55.3'
15	255°00.4'	48°50.9'	S 10°49.1'	261°07.9'	14.1'	S 6°49.5'	10.7'	55.4'
16	270°02.8'	63°51.0'	S 10°50.0'	275°41.0'	14.1'	S 6°38.8'	10.7'	55.4'
17	285°05.3'	78°51.1'	S 10°50.9'	290°14.1'	14.1'	S 6°28.1'	10.8'	55.4'
18	300°07.7'	93°51.1'	S 10°51.8'	304°47.2'	14.1'	S 6°17.3'	10.8'	55.4'
19	315°10.2'	108°51.2'	S 10°52.7'	319°20.3'	14.1'	S 6°06.5'	10.8'	55.5'
20	330°12.7'	123°51.3'	S 10°53.6'	333°53.4'	14.1'	S 5°55.7'	10.9'	55.5'
21	345°15.1'	138°51.4'	S 10°54.5'	348°26.5'	14.1'	S 5°44.8'	10.9'	55.5'
22	0°17.6'	153°51.5'	S 10°55.3'	2°59.6'	14.1'	S 5°33.9'	10.9'	55.5'
23	15°20.1'	168°51.6'	S 10°56.2'	17°32.7'	14.1'	S 5°23.0'	11.0'	55.5'

## Mon Oct 22, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 16.1'		SD = 15.2'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	30°22.5'	183°51.7'	S 10°57.1'	32°05.8'	14.1'	S 5°12.0'	11.0'	55.6'
1	45°25.0'	198°51.8'	S 10°58.0'	46°38.9'	14.1'	S 5°01.0'	11.0'	55.6'
2	60°27.5'	213°51.9'	S 10°58.9'	61°11.9'	14.0'	S 4°50.0'	11.1'	55.6'
3	75°29.9'	228°52.0'	S 10°59.8'	75°45.0'	14.0'	S 4°38.9'	11.1'	55.6'
4	90°32.4'	243°52.1'	S 11°00.6'	90°18.0'	14.0'	S 4°27.8'	11.1'	55.7'
5	105°34.8'	258°52.2'	S 11°01.5'	104°51.0'	14.0'	S 4°16.7'	11.2'	55.7'
6	120°37.3'	273°52.3'	S 11°02.4'	119°24.0'	14.0'	S 4°05.5'	11.2'	55.7'
7	135°39.8'	288°52.4'	S 11°03.3'	133°57.0'	14.0'	S 3°54.3'	11.2'	55.7'
8	150°42.2'	303°52.5'	S 11°04.2'	148°30.0'	14.0'	S 3°43.1'	11.2'	55.8'
9	165°44.7'	318°52.6'	S 11°05.1'	163°03.0'	14.0'	S 3°31.9'	11.3'	55.8'
10	180°47.2'	333°52.7'	S 11°05.9'	177°35.9'	13.9'	S 3°20.6'	11.3'	55.8'
11	195°49.6'	348°52.8'	S 11°06.8'	192°08.9'	13.9'	S 3°09.3'	11.3'	55.8'
12	210°52.1'	3°52.9'	S 11°07.7'	206°41.8'	13.9'	S 2°58.0'	11.3'	55.9'
13	225°54.6'	18°53.0'	S 11°08.6'	221°14.7'	13.9'	S 2°46.6'	11.4'	55.9'
14	240°57.0'	33°53.1'	S 11°09.5'	235°47.6'	13.9'	S 2°35.3'	11.4'	55.9'
15	255°59.5'	48°53.2'	S 11°10.3'	250°20.4'	13.8'	S 2°23.9'	11.4'	55.9'
16	271°02.0'	63°53.3'	S 11°11.2'	264°53.3'	13.8'	S 2°12.5'	11.4'	55.9'
17	286°04.4'	78°53.4'	S 11°12.1'	279°26.1'	13.8'	S 2°01.1'	11.4'	56.0'
18	301°06.9'	93°53.5'	S 11°13.0'	293°58.9'	13.8'	S 1°49.6'	11.5'	56.0'
19	316°09.3'	108°53.5'	S 11°13.9'	308°31.7'	13.8'	S 1°38.1'	11.5'	56.0'
20	331°11.8'	123°53.6'	S 11°14.7'	323°04.5'	13.7'	S 1°26.7'	11.5'	56.0'
21	346°14.3'	138°53.7'	S 11°15.6'	337°37.2'	13.7'	S 1°15.1'	11.5'	56.1'
22	1°16.7'	153°53.8'	S 11°16.5'	352°09.9'	13.7'	S 1°03.6'	11.5'	56.1'
23	16°19.2'	168°53.9'	S 11°17.4'	6°42.6'	13.7'	S 0°52.1'	11.6'	56.1'

Tue Oct 23, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 16.1'		SD = 15.4'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	31°21.7'	183°54.0'	S 11°18.3'	21°15.3'	13.6'	S 0°40.5'	11.6'	56.1'
1	46°24.1'	198°54.1'	S 11°19.1'	35°48.0'	13.6'	S 0°29.0'	11.6'	56.2'
2	61°26.6'	213°54.2'	S 11°20.0'	50°20.6'	13.6'	S 0°17.4'	11.6'	56.2'
3	76°29.1'	228°54.3'	S 11°20.9'	64°53.2'	13.6'	S 0°05.8'	11.6'	56.2'
4	91°31.5'	243°54.4'	S 11°21.8'	79°25.7'	13.5'	N 0°05.8'	11.6'	56.2'
5	106°34.0'	258°54.5'	S 11°22.6'	93°58.3'	13.5'	N 0°17.4'	11.6'	56.3'
6	121°36.4'	273°54.5'	S 11°23.5'	108°30.8'	13.5'	N 0°29.0'	11.6'	56.3'
7	136°38.9'	288°54.6'	S 11°24.4'	123°03.3'	13.5'	N 0°40.7'	11.6'	56.3'
8	151°41.4'	303°54.7'	S 11°25.3'	137°35.7'	13.4'	N 0°52.3'	11.6'	56.3'
9	166°43.8'	318°54.8'	S 11°26.1'	152°08.1'	13.4'	N 1°04.0'	11.7'	56.4'
10	181°46.3'	333°54.9'	S 11°27.0'	166°40.5'	13.4'	N 1°15.6'	11.7'	56.4'
11	196°48.8'	348°55.0'	S 11°27.9'	181°12.9'	13.3'	N 1°27.3'	11.7'	56.4'
12	211°51.2'	3°55.1'	S 11°28.8'	195°45.2'	13.3'	N 1°38.9'	11.7'	56.4'
13	226°53.7'	18°55.2'	S 11°29.6'	210°17.5'	13.3'	N 1°50.6'	11.7'	56.5'
14	241°56.2'	33°55.2'	S 11°30.5'	224°49.8'	13.2'	N 2°02.3'	11.7'	56.5'
15	256°58.6'	48°55.3'	S 11°31.4'	239°22.0'	13.2'	N 2°14.0'	11.7'	56.5'
16	272°01.1'	63°55.4'	S 11°32.3'	253°54.2'	13.1'	N 2°25.6'	11.7'	56.5'
17	287°03.6'	78°55.5'	S 11°33.1'	268°26.3'	13.1'	N 2°37.3'	11.7'	56.6'
18	302°06.0'	93°55.6'	S 11°34.0'	282°58.4'	13.1'	N 2°49.0'	11.7'	56.6'
19	317°08.5'	108°55.7'	S 11°34.9'	297°30.5'	13.0'	N 3°00.6'	11.7'	56.6'
20	332°10.9'	123°55.8'	S 11°35.8'	312°02.5'	13.0'	N 3°12.3'	11.7'	56.6'
21	347°13.4'	138°55.8'	S 11°36.6'	326°34.5'	13.0'	N 3°24.0'	11.7'	56.7'
22	2°15.9'	153°55.9'	S 11°37.5'	341°06.5'	12.9'	N 3°35.6'	11.7'	56.7'
23	17°18.3'	168°56.0'	S 11°38.4'	355°38.4'	12.9'	N 3°47.3'	11.6'	56.7'

Wed Oct 24, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 16.1'		SD = 15.6'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	32°20.8'	183°56.1'	S 11°39.2'	10°10.3'	12.8'	N 3°58.9'	11.6'	56.7'
1	47°23.3'	198°56.2'	S 11°40.1'	24°42.1'	12.8'	N 4°10.6'	11.6'	56.8'
2	62°25.7'	213°56.3'	S 11°41.0'	39°13.9'	12.7'	N 4°22.2'	11.6'	56.8'
3	77°28.2'	228°56.3'	S 11°41.9'	53°45.7'	12.7'	N 4°33.8'	11.6'	56.8'
4	92°30.7'	243°56.4'	S 11°42.7'	68°17.4'	12.7'	N 4°45.4'	11.6'	56.8'
5	107°33.1'	258°56.5'	S 11°43.6'	82°49.0'	12.6'	N 4°57.0'	11.6'	56.9'
6	122°35.6'	273°56.6'	S 11°44.5'	97°20.6'	12.6'	N 5°08.6'	11.6'	56.9'
7	137°38.0'	288°56.7'	S 11°45.3'	111°52.2'	12.5'	N 5°20.2'	11.6'	56.9'
8	152°40.5'	303°56.8'	S 11°46.2'	126°23.7'	12.5'	N 5°31.7'	11.5'	56.9'
9	167°43.0'	318°56.8'	S 11°47.1'	140°55.2'	12.4'	N 5°43.3'	11.5'	57.0'
10	182°45.4'	333°56.9'	S 11°47.9'	155°26.6'	12.4'	N 5°54.8'	11.5'	57.0'
11	197°47.9'	348°57.0'	S 11°48.8'	169°58.0'	12.3'	N 6°06.3'	11.5'	57.0'
12	212°50.4'	3°57.1'	S 11°49.7'	184°29.3'	12.3'	N 6°17.8'	11.5'	57.0'
13	227°52.8'	18°57.2'	S 11°50.5'	199°00.6'	12.2'	N 6°29.2'	11.4'	57.1'
14	242°55.3'	33°57.2'	S 11°51.4'	213°31.9'	12.2'	N 6°40.7'	11.4'	57.1'
15	257°57.8'	48°57.3'	S 11°52.3'	228°03.0'	12.1'	N 6°52.1'	11.4'	57.1'
16	273°00.2'	63°57.4'	S 11°53.1'	242°34.2'	12.1'	N 7°03.5'	11.4'	57.1'
17	288°02.7'	78°57.5'	S 11°54.0'	257°05.2'	12.0'	N 7°14.8'	11.3'	57.2'
18	303°05.2'	93°57.5'	S 11°54.9'	271°36.3'	12.0'	N 7°26.2'	11.3'	57.2'
19	318°07.6'	108°57.6'	S 11°55.7'	286°07.2'	11.9'	N 7°37.5'	11.3'	57.2'
20	333°10.1'	123°57.7'	S 11°56.6'	300°38.2'	11.9'	N 7°48.8'	11.3'	57.2'
21	348°12.5'	138°57.8'	S 11°57.5'	315°09.0'	11.8'	N 8°00.0'	11.2'	57.2'
22	3°15.0'	153°57.9'	S 11°58.3'	329°39.8'	11.8'	N 8°11.3'	11.2'	57.3'
23	18°17.5'	168°57.9'	S 11°59.2'	344°10.6'	11.7'	N 8°22.5'	11.2'	57.3'

Thu Oct 25, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 16.1'		SD = 15.7'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	33°19.9'	183°58.0'	S 12°00.0'	358°41.3'	11.6'	N 8°33.6'	11.1'	57.3'
1	48°22.4'	198°58.1'	S 12°00.9'	13°11.9'	11.6'	N 8°44.7'	11.1'	57.3'
2	63°24.9'	213°58.2'	S 12°01.8'	27°42.5'	11.5'	N 8°55.8'	11.1'	57.4'
3	78°27.3'	228°58.2'	S 12°02.6'	42°13.0'	11.5'	N 9°06.9'	11.0'	57.4'
4	93°29.8'	243°58.3'	S 12°03.5'	56°43.5'	11.4'	N 9°17.9'	11.0'	57.4'
5	108°32.3'	258°58.4'	S 12°04.4'	71°13.9'	11.4'	N 9°28.9'	10.9'	57.4'
6	123°34.7'	273°58.5'	S 12°05.2'	85°44.3'	11.3'	N 9°39.8'	10.9'	57.5'
7	138°37.2'	288°58.5'	S 12°06.1'	100°14.6'	11.2'	N 9°50.7'	10.9'	57.5'
8	153°39.7'	303°58.6'	S 12°06.9'	114°44.8'	11.2'	N 10°01.6'	10.8'	57.5'
9	168°42.1'	318°58.7'	S 12°07.8'	129°15.0'	11.1'	N 10°12.4'	10.8'	57.5'
10	183°44.6'	333°58.8'	S 12°08.7'	143°45.1'	11.0'	N 10°23.2'	10.7'	57.5'
11	198°47.0'	348°58.8'	S 12°09.5'	158°15.1'	11.0'	N 10°33.9'	10.7'	57.6'
12	213°49.5'	3°58.9'	S 12°10.4'	172°45.1'	10.9'	N 10°44.6'	10.6'	57.6'
13	228°52.0'	18°59.0'	S 12°11.2'	187°15.0'	10.9'	N 10°55.2'	10.6'	57.6'
14	243°54.4'	33°59.0'	S 12°12.1'	201°44.9'	10.8'	N 11°05.8'	10.5'	57.6'
15	258°56.9'	48°59.1'	S 12°13.0'	216°14.7'	10.7'	N 11°16.3'	10.5'	57.7'
16	273°59.4'	63°59.2'	S 12°13.8'	230°44.4'	10.7'	N 11°26.8'	10.4'	57.7'
17	289°01.8'	78°59.3'	S 12°14.7'	245°14.1'	10.6'	N 11°37.2'	10.4'	57.7'
18	304°04.3'	93°59.3'	S 12°15.5'	259°43.7'	10.5'	N 11°47.6'	10.3'	57.7'
19	319°06.8'	108°59.4'	S 12°16.4'	274°13.3'	10.5'	N 11°57.9'	10.3'	57.7'
20	334°09.2'	123°59.5'	S 12°17.2'	288°42.8'	10.4'	N 12°08.2'	10.2'	57.8'
21	349°11.7'	138°59.5'	S 12°18.1'	303°12.2'	10.3'	N 12°18.4'	10.1'	57.8'
22	4°14.1'	153°59.6'	S 12°19.0'	317°41.5'	10.3'	N 12°28.5'	10.1'	57.8'
23	19°16.6'	168°59.7'	S 12°19.8'	332°10.8'	10.2'	N 12°38.6'	10.0'	57.8'

Fri Oct 26, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.9' SD = 16.1'		SD = 15.8'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	34°19.1'	183°59.7'	S 12°20.7'	346°40.0'	10.2'	N 12°48.7'	10.0'	57.8'
1	49°21.5'	198°59.8'	S 12°21.5'	1°09.2'	10.1'	N 12°58.6'	9.9'	57.9'
2	64°24.0'	213°59.9'	S 12°22.4'	15°38.2'	10.0'	N 13°08.5'	9.8'	57.9'
3	79°26.5'	228°60.0'	S 12°23.2'	30°07.3'	10.0'	N 13°18.3'	9.8'	57.9'
4	94°28.9'	244°00.0'	S 12°24.1'	44°36.2'	9.9'	N 13°28.1'	9.7'	57.9'
5	109°31.4'	259°00.1'	S 12°24.9'	59°05.1'	9.8'	N 13°37.8'	9.6'	57.9'
6	124°33.9'	274°00.2'	S 12°25.8'	73°33.9'	9.7'	N 13°47.4'	9.6'	58.0'
7	139°36.3'	289°00.2'	S 12°26.6'	88°02.7'	9.7'	N 13°57.0'	9.5'	58.0'
8	154°38.8'	304°00.3'	S 12°27.5'	102°31.3'	9.6'	N 14°06.5'	9.4'	58.0'
9	169°41.3'	319°00.4'	S 12°28.3'	116°60.0'	9.5'	N 14°15.9'	9.3'	58.0'
10	184°43.7'	334°00.4'	S 12°29.2'	131°28.5'	9.5'	N 14°25.3'	9.3'	58.0'
11	199°46.2'	349°00.5'	S 12°30.1'	145°57.0'	9.4'	N 14°34.5'	9.2'	58.1'
12	214°48.6'	4°00.5'	S 12°30.9'	160°25.4'	9.3'	N 14°43.7'	9.1'	58.1'
13	229°51.1'	19°00.6'	S 12°31.8'	174°53.7'	9.3'	N 14°52.8'	9.0'	58.1'
14	244°53.6'	34°00.7'	S 12°32.6'	189°22.0'	9.2'	N 15°01.9'	9.0'	58.1'
15	259°56.0'	49°00.7'	S 12°33.5'	203°50.2'	9.1'	N 15°10.8'	8.9'	58.1'
16	274°58.5'	64°00.8'	S 12°34.3'	218°18.4'	9.1'	N 15°19.7'	8.8'	58.2'
17	290°01.0'	79°00.9'	S 12°35.2'	232°46.4'	9.0'	N 15°28.5'	8.7'	58.2'
18	305°03.4'	94°00.9'	S 12°36.0'	247°14.4'	8.9'	N 15°37.2'	8.6'	58.2'
19	320°05.9'	109°01.0'	S 12°36.9'	261°42.4'	8.9'	N 15°45.8'	8.5'	58.2'
20	335°08.4'	124°01.1'	S 12°37.7'	276°10.2'	8.8'	N 15°54.4'	8.5'	58.2'
21	350°10.8'	139°01.1'	S 12°38.6'	290°38.0'	8.7'	N 16°02.8'	8.4'	58.2'
22	5°13.3'	154°01.2'	S 12°39.4'	305°05.8'	8.7'	N 16°11.2'	8.3'	58.3'
23	20°15.8'	169°01.2'	S 12°40.2'	319°33.4'	8.6'	N 16°19.5'	8.2'	58.3'

Sat Oct 27, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.8' SD = 16.1'		SD = 16.0'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	35°18.2'	184°01.3'	S 12°41.1'	334°01.0'	8.5'	N 16°27.7'	8.1'	58.3'
1	50°20.7'	199°01.4'	S 12°41.9'	348°28.5'	8.5'	N 16°35.8'	8.0'	58.3'
2	65°23.1'	214°01.4'	S 12°42.8'	2°56.0'	8.4'	N 16°43.8'	7.9'	58.3'
3	80°25.6'	229°01.5'	S 12°43.6'	17°23.4'	8.3'	N 16°51.7'	7.8'	58.3'
4	95°28.1'	244°01.5'	S 12°44.5'	31°50.7'	8.3'	N 16°59.5'	7.7'	58.4'
5	110°30.5'	259°01.6'	S 12°45.3'	46°18.0'	8.2'	N 17°07.2'	7.6'	58.4'
6	125°33.0'	274°01.7'	S 12°46.2'	60°45.2'	8.1'	N 17°14.8'	7.5'	58.4'
7	140°35.5'	289°01.7'	S 12°47.0'	75°12.3'	8.1'	N 17°22.3'	7.4'	58.4'
8	155°37.9'	304°01.8'	S 12°47.9'	89°39.4'	8.0'	N 17°29.8'	7.3'	58.4'
9	170°40.4'	319°01.8'	S 12°48.7'	104°06.4'	7.9'	N 17°37.1'	7.2'	58.4'
10	185°42.9'	334°01.9'	S 12°49.6'	118°33.3'	7.9'	N 17°44.3'	7.1'	58.5'
11	200°45.3'	349°02.0'	S 12°50.4'	133°00.2'	7.8'	N 17°51.4'	7.0'	58.5'
12	215°47.8'	4°02.0'	S 12°51.2'	147°27.0'	7.7'	N 17°58.4'	6.9'	58.5'
13	230°50.2'	19°02.1'	S 12°52.1'	161°53.8'	7.7'	N 18°05.3'	6.8'	58.5'
14	245°52.7'	34°02.1'	S 12°52.9'	176°20.5'	7.6'	N 18°12.1'	6.7'	58.5'
15	260°55.2'	49°02.2'	S 12°53.8'	190°47.1'	7.6'	N 18°18.8'	6.6'	58.5'
16	275°57.6'	64°02.2'	S 12°54.6'	205°13.7'	7.5'	N 18°25.4'	6.5'	58.5'
17	291°00.1'	79°02.3'	S 12°55.5'	219°40.2'	7.4'	N 18°31.9'	6.4'	58.6'
18	306°02.6'	94°02.3'	S 12°56.3'	234°06.6'	7.4'	N 18°38.2'	6.3'	58.6'
19	321°05.0'	109°02.4'	S 12°57.1'	248°33.0'	7.3'	N 18°44.5'	6.1'	58.6'
20	336°07.5'	124°02.5'	S 12°58.0'	262°59.3'	7.3'	N 18°50.6'	6.0'	58.6'
21	351°10.0'	139°02.5'	S 12°58.8'	277°25.6'	7.2'	N 18°56.7'	5.9'	58.6'
22	6°12.4'	154°02.6'	S 12°59.7'	291°51.8'	7.2'	N 19°02.6'	5.8'	58.6'
23	21°14.9'	169°02.6'	S 13°00.5'	306°17.9'	7.1'	N 19°08.4'	5.7'	58.6'

Sun Oct 28, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.8' SD = 16.1'		SD = 16.0'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	36°17.4'	184°02.7'	S 13°01.3'	320°44.0'	7.0'	N 19°14.0'	5.6'	58.7'
1	51°19.8'	199°02.7'	S 13°02.2'	335°10.1'	7.0'	N 19°19.6'	5.4'	58.7'
2	66°22.3'	214°02.8'	S 13°03.0'	349°36.1'	6.9'	N 19°25.0'	5.3'	58.7'
3	81°24.7'	229°02.8'	S 13°03.8'	4°02.0'	6.9'	N 19°30.4'	5.2'	58.7'
4	96°27.2'	244°02.9'	S 13°04.7'	18°27.9'	6.8'	N 19°35.6'	5.1'	58.7'
5	111°29.7'	259°02.9'	S 13°05.5'	32°53.7'	6.8'	N 19°40.7'	5.0'	58.7'
6	126°32.1'	274°03.0'	S 13°06.4'	47°19.5'	6.7'	N 19°45.6'	4.8'	58.7'
7	141°34.6'	289°03.0'	S 13°07.2'	61°45.2'	6.7'	N 19°50.5'	4.7'	58.7'
8	156°37.1'	304°03.1'	S 13°08.0'	76°10.9'	6.6'	N 19°55.2'	4.6'	58.8'
9	171°39.5'	319°03.1'	S 13°08.9'	90°36.5'	6.6'	N 19°59.8'	4.5'	58.8'
10	186°42.0'	334°03.2'	S 13°09.7'	105°02.1'	6.5'	N 20°04.2'	4.3'	58.8'
11	201°44.5'	349°03.2'	S 13°10.5'	119°27.7'	6.5'	N 20°08.6'	4.2'	58.8'
12	216°46.9'	4°03.3'	S 13°11.4'	133°53.2'	6.4'	N 20°12.8'	4.1'	58.8'
13	231°49.4'	19°03.3'	S 13°12.2'	148°18.6'	6.4'	N 20°16.9'	4.0'	58.8'
14	246°51.9'	34°03.4'	S 13°13.0'	162°44.0'	6.4'	N 20°20.8'	3.8'	58.8'
15	261°54.3'	49°03.4'	S 13°13.9'	177°09.4'	6.3'	N 20°24.7'	3.7'	58.8'
16	276°56.8'	64°03.5'	S 13°14.7'	191°34.7'	6.3'	N 20°28.4'	3.6'	58.8'
17	291°59.2'	79°03.5'	S 13°15.5'	205°60.0'	6.2'	N 20°31.9'	3.4'	58.9'
18	307°01.7'	94°03.6'	S 13°16.4'	220°25.2'	6.2'	N 20°35.4'	3.3'	58.9'
19	322°04.2'	109°03.6'	S 13°17.2'	234°50.4'	6.2'	N 20°38.7'	3.2'	58.9'
20	337°06.6'	124°03.7'	S 13°18.0'	249°15.6'	6.1'	N 20°41.8'	3.0'	58.9'
21	352°09.1'	139°03.7'	S 13°18.9'	263°40.7'	6.1'	N 20°44.9'	2.9'	58.9'
22	7°11.6'	154°03.8'	S 13°19.7'	278°05.8'	6.1'	N 20°47.8'	2.8'	58.9'
23	22°14.0'	169°03.8'	S 13°20.5'	292°30.9'	6.0'	N 20°50.6'	2.6'	58.9'

Mon Oct 29, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.8' SD = 16.1'		SD = 16.1'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	37°16.5'	184°03.8'	S 13°21.4'	306°55.9'	6.0'	N 20°53.2'	2.5'	58.9'
1	52°19.0'	199°03.9'	S 13°22.2'	321°20.9'	6.0'	N 20°55.7'	2.4'	58.9'
2	67°21.4'	214°03.9'	S 13°23.0'	335°45.9'	5.9'	N 20°58.1'	2.2'	58.9'
3	82°23.9'	229°04.0'	S 13°23.9'	350°10.9'	5.9'	N 21°00.3'	2.1'	59.0'
4	97°26.4'	244°04.0'	S 13°24.7'	4°35.8'	5.9'	N 21°02.4'	2.0'	59.0'
5	112°28.8'	259°04.1'	S 13°25.5'	19°00.7'	5.9'	N 21°04.4'	1.8'	59.0'
6	127°31.3'	274°04.1'	S 13°26.3'	33°25.5'	5.8'	N 21°06.2'	1.7'	59.0'
7	142°33.7'	289°04.2'	S 13°27.2'	47°50.4'	5.8'	N 21°07.9'	1.5'	59.0'
8	157°36.2'	304°04.2'	S 13°28.0'	62°15.2'	5.8'	N 21°09.4'	1.4'	59.0'
9	172°38.7'	319°04.2'	S 13°28.8'	76°40.0'	5.8'	N 21°10.8'	1.3'	59.0'
10	187°41.1'	334°04.3'	S 13°29.7'	91°04.8'	5.8'	N 21°12.1'	1.1'	59.0'
11	202°43.6'	349°04.3'	S 13°30.5'	105°29.6'	5.8'	N 21°13.2'	1.0'	59.0'
12	217°46.1'	4°04.4'	S 13°31.3'	119°54.3'	5.7'	N 21°14.2'	0.9'	59.0'
13	232°48.5'	19°04.4'	S 13°32.1'	134°19.0'	5.7'	N 21°15.1'	0.7'	59.0'
14	247°51.0'	34°04.4'	S 13°33.0'	148°43.8'	5.7'	N 21°15.8'	0.6'	59.0'
15	262°53.5'	49°04.5'	S 13°33.8'	163°08.5'	5.7'	N 21°16.4'	0.4'	59.0'
16	277°55.9'	64°04.5'	S 13°34.6'	177°33.2'	5.7'	N 21°16.8'	0.3'	59.1'
17	292°58.4'	79°04.6'	S 13°35.4'	191°57.9'	5.7'	N 21°17.1'	0.2'	59.1'
18	308°00.9'	94°04.6'	S 13°36.3'	206°22.5'	5.7'	N 21°17.3'	0.0'	59.1'
19	323°03.3'	109°04.6'	S 13°37.1'	220°47.2'	5.7'	N 21°17.3'	0.1'	59.1'
20	338°05.8'	124°04.7'	S 13°37.9'	235°11.9'	5.7'	N 21°17.1'	0.3'	59.1'
21	353°08.2'	139°04.7'	S 13°38.7'	249°36.5'	5.7'	N 21°16.9'	0.4'	59.1'
22	8°10.7'	154°04.8'	S 13°39.5'	264°01.2'	5.7'	N 21°16.5'	0.5'	59.1'
23	23°13.2'	169°04.8'	S 13°40.4'	278°25.9'	5.7'	N 21°15.9'	0.7'	59.1'

Tue Oct 30, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.8' SD = 16.1'		SD = 16.1'				
	GHA	GHA	dec	GHA	v	dec	d	HP
0	38°15.6'	184°04.8'	S 13°41.2'	292°50.5'	5.7'	N 21°15.2'	0.8'	59.1'
1	53°18.1'	199°04.9'	S 13°42.0'	307°15.2'	5.7'	N 21°14.4'	1.0'	59.1'
2	68°20.6'	214°04.9'	S 13°42.8'	321°39.8'	5.7'	N 21°13.4'	1.1'	59.1'
3	83°23.0'	229°04.9'	S 13°43.7'	336°04.5'	5.7'	N 21°12.3'	1.2'	59.1'
4	98°25.5'	244°05.0'	S 13°44.5'	350°29.2'	5.7'	N 21°11.1'	1.4'	59.1'
5	113°28.0'	259°05.0'	S 13°45.3'	4°53.8'	5.7'	N 21°09.7'	1.5'	59.1'
6	128°30.4'	274°05.0'	S 13°46.1'	19°18.5'	5.7'	N 21°08.2'	1.7'	59.1'
7	143°32.9'	289°05.1'	S 13°46.9'	33°43.2'	5.7'	N 21°06.5'	1.8'	59.1'
8	158°35.3'	304°05.1'	S 13°47.8'	48°07.9'	5.7'	N 21°04.7'	1.9'	59.1'
9	173°37.8'	319°05.1'	S 13°48.6'	62°32.6'	5.7'	N 21°02.7'	2.1'	59.2'
10	188°40.3'	334°05.2'	S 13°49.4'	76°57.4'	5.7'	N 21°00.6'	2.2'	59.2'
11	203°42.7'	349°05.2'	S 13°50.2'	91°22.1'	5.8'	N 20°58.4'	2.4'	59.2'
12	218°45.2'	4°05.2'	S 13°51.0'	105°46.9'	5.8'	N 20°56.1'	2.5'	59.2'
13	233°47.7'	19°05.3'	S 13°51.8'	120°11.6'	5.8'	N 20°53.5'	2.6'	59.2'
14	248°50.1'	34°05.3'	S 13°52.7'	134°36.4'	5.8'	N 20°50.9'	2.8'	59.2'
15	263°52.6'	49°05.3'	S 13°53.5'	149°01.2'	5.8'	N 20°48.1'	2.9'	59.2'
16	278°55.1'	64°05.4'	S 13°54.3'	163°26.0'	5.9'	N 20°45.2'	3.1'	59.2'
17	293°57.5'	79°05.4'	S 13°55.1'	177°50.9'	5.9'	N 20°42.2'	3.2'	59.2'
18	308°60.0'	94°05.4'	S 13°55.9'	192°15.8'	5.9'	N 20°39.0'	3.3'	59.2'
19	324°02.5'	109°05.5'	S 13°56.7'	206°40.7'	5.9'	N 20°35.7'	3.5'	59.2'
20	339°04.9'	124°05.5'	S 13°57.6'	221°05.6'	5.9'	N 20°32.2'	3.6'	59.2'
21	354°07.4'	139°05.5'	S 13°58.4'	235°30.5'	6.0'	N 20°28.6'	3.7'	59.2'
22	9°09.8'	154°05.6'	S 13°59.2'	249°55.5'	6.0'	N 20°24.9'	3.9'	59.2'
23	24°12.3'	169°05.6'	S 13°60.0'	264°20.5'	6.0'	N 20°21.0'	4.0'	59.2'

Wed Oct 31, 2018 UTC

UTC	Aries	Sun		Moon				
	GHA	d = 0.8' SD = 16.1'		SD = 16.2'				
		GHA	dec	GHA	v	dec	d	HP
0	39°14.8'	184°05.6'	S 14°00.8'	278°45.5'	6.1'	N 20°17.0'	4.1'	59.2'
1	54°17.2'	199°05.6'	S 14°01.6'	293°10.6'	6.1'	N 20°12.9'	4.3'	59.2'
2	69°19.7'	214°05.7'	S 14°02.4'	307°35.7'	6.1'	N 20°08.6'	4.4'	59.2'
3	84°22.2'	229°05.7'	S 14°03.2'	322°00.8'	6.2'	N 20°04.2'	4.5'	59.2'
4	99°24.6'	244°05.7'	S 14°04.1'	336°26.0'	6.2'	N 19°59.7'	4.7'	59.2'
5	114°27.1'	259°05.7'	S 14°04.9'	350°51.2'	6.2'	N 19°55.1'	4.8'	59.2'
6	129°29.6'	274°05.8'	S 14°05.7'	5°16.4'	6.3'	N 19°50.3'	4.9'	59.2'
7	144°32.0'	289°05.8'	S 14°06.5'	19°41.7'	6.3'	N 19°45.4'	5.0'	59.2'
8	159°34.5'	304°05.8'	S 14°07.3'	34°07.0'	6.3'	N 19°40.3'	5.2'	59.2'
9	174°37.0'	319°05.9'	S 14°08.1'	48°32.3'	6.4'	N 19°35.2'	5.3'	59.2'
10	189°39.4'	334°05.9'	S 14°08.9'	62°57.7'	6.4'	N 19°29.9'	5.4'	59.2'
11	204°41.9'	349°05.9'	S 14°09.7'	77°23.1'	6.5'	N 19°24.5'	5.5'	59.2'
12	219°44.3'	4°05.9'	S 14°10.5'	91°48.6'	6.5'	N 19°18.9'	5.7'	59.2'
13	234°46.8'	19°06.0'	S 14°11.3'	106°14.1'	6.5'	N 19°13.3'	5.8'	59.2'
14	249°49.3'	34°06.0'	S 14°12.1'	120°39.6'	6.6'	N 19°07.5'	5.9'	59.2'
15	264°51.7'	49°06.0'	S 14°12.9'	135°05.2'	6.6'	N 19°01.6'	6.0'	59.2'
16	279°54.2'	64°06.0'	S 14°13.8'	149°30.8'	6.7'	N 18°55.5'	6.2'	59.2'
17	294°56.7'	79°06.0'	S 14°14.6'	163°56.5'	6.7'	N 18°49.4'	6.3'	59.2'
18	309°59.1'	94°06.1'	S 14°15.4'	178°22.2'	6.8'	N 18°43.1'	6.4'	59.2'
19	325°01.6'	109°06.1'	S 14°16.2'	192°47.9'	6.8'	N 18°36.7'	6.5'	59.2'
20	340°04.1'	124°06.1'	S 14°17.0'	207°13.8'	6.9'	N 18°30.2'	6.6'	59.2'
21	355°06.5'	139°06.1'	S 14°17.8'	221°39.6'	6.9'	N 18°23.6'	6.7'	59.2'
22	10°09.0'	154°06.2'	S 14°18.6'	236°05.5'	6.9'	N 18°16.8'	6.9'	59.2'
23	25°11.5'	169°06.2'	S 14°19.4'	250°31.5'	7.0'	N 18°09.9'	7.0'	59.2'