

Tue May 1, 2018 UTC

UTC	Venus -3.8		Jupiter -2.4		Saturn +0.3		Mars -0.4	
	v = -0.8' d = 0.6'		v = 2.8' d = 0.1'		v = 2.5' d = 0.0'		v = 1.2' d = 0.1'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	153°09.2'	N 22°25.6'	351°35.5'	S 16°20.5'	299°07.8'	S 22°14.6'	283°20.4'	S 22°41.5'
1	168°08.5'	N 22°26.2'	6°38.3'	S 16°20.4'	314°10.3'	S 22°14.6'	298°21.6'	S 22°41.4'
2	183°07.7'	N 22°26.8'	21°41.1'	S 16°20.3'	329°12.8'	S 22°14.6'	313°22.9'	S 22°41.3'
3	198°07.0'	N 22°27.4'	36°43.8'	S 16°20.2'	344°15.3'	S 22°14.6'	328°24.1'	S 22°41.2'
4	213°06.2'	N 22°28.0'	51°46.6'	S 16°20.1'	359°17.8'	S 22°14.6'	343°25.3'	S 22°41.1'
5	228°05.5'	N 22°28.6'	66°49.4'	S 16°20.1'	14°20.4'	S 22°14.7'	358°26.5'	S 22°41.0'
6	243°04.7'	N 22°29.2'	81°52.2'	S 16°20.0'	29°22.9'	S 22°14.7'	13°27.7'	S 22°40.9'
7	258°04.0'	N 22°29.8'	96°54.9'	S 16°19.9'	44°25.4'	S 22°14.7'	28°28.9'	S 22°40.8'
8	273°03.2'	N 22°30.4'	111°57.7'	S 16°19.8'	59°27.9'	S 22°14.7'	43°30.1'	S 22°40.7'
9	288°02.5'	N 22°31.0'	127°00.5'	S 16°19.7'	74°30.5'	S 22°14.7'	58°31.3'	S 22°40.6'
10	303°01.7'	N 22°31.6'	142°03.3'	S 16°19.6'	89°33.0'	S 22°14.7'	73°32.5'	S 22°40.5'
11	318°01.0'	N 22°32.1'	157°06.1'	S 16°19.6'	104°35.5'	S 22°14.7'	88°33.7'	S 22°40.4'
12	333°00.2'	N 22°32.7'	172°08.8'	S 16°19.5'	119°38.0'	S 22°14.7'	103°34.9'	S 22°40.3'
13	347°59.5'	N 22°33.3'	187°11.6'	S 16°19.4'	134°40.5'	S 22°14.7'	118°36.1'	S 22°40.2'
14	2°58.7'	N 22°33.9'	202°14.4'	S 16°19.3'	149°43.1'	S 22°14.7'	133°37.3'	S 22°40.1'
15	17°58.0'	N 22°34.5'	217°17.2'	S 16°19.2'	164°45.6'	S 22°14.7'	148°38.5'	S 22°40.0'
16	32°57.2'	N 22°35.1'	232°19.9'	S 16°19.1'	179°48.1'	S 22°14.7'	163°39.7'	S 22°39.9'
17	47°56.4'	N 22°35.7'	247°22.7'	S 16°19.1'	194°50.6'	S 22°14.7'	178°40.9'	S 22°39.8'
18	62°55.7'	N 22°36.3'	262°25.5'	S 16°19.0'	209°53.2'	S 22°14.7'	193°42.2'	S 22°39.7'
19	77°54.9'	N 22°36.8'	277°28.3'	S 16°18.9'	224°55.7'	S 22°14.7'	208°43.4'	S 22°39.6'
20	92°54.2'	N 22°37.4'	292°31.0'	S 16°18.8'	239°58.2'	S 22°14.7'	223°44.6'	S 22°39.4'
21	107°53.4'	N 22°38.0'	307°33.8'	S 16°18.7'	255°00.7'	S 22°14.7'	238°45.8'	S 22°39.3'
22	122°52.7'	N 22°38.6'	322°36.6'	S 16°18.6'	270°03.2'	S 22°14.7'	253°47.0'	S 22°39.2'
23	137°51.9'	N 22°39.2'	337°39.4'	S 16°18.6'	285°05.8'	S 22°14.7'	268°48.2'	S 22°39.1'

Wed May 2, 2018 UTC

UTC	Venus -3.8		Jupiter -2.4		Saturn +0.3		Mars -0.4	
	v = -0.8' d = 0.6'		v = 2.8' d = 0.1'		v = 2.5' d = 0.0'		v = 1.2' d = 0.1'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	152°51.1'	N 22°39.7'	352°42.2'	S 16°18.5'	300°08.3'	S 22°14.7'	283°49.4'	S 22°39.0'
1	167°50.4'	N 22°40.3'	7°44.9'	S 16°18.4'	315°10.8'	S 22°14.7'	298°50.6'	S 22°38.9'
2	182°49.6'	N 22°40.9'	22°47.7'	S 16°18.3'	330°13.3'	S 22°14.7'	313°51.8'	S 22°38.8'
3	197°48.9'	N 22°41.5'	37°50.5'	S 16°18.2'	345°15.9'	S 22°14.7'	328°53.1'	S 22°38.7'
4	212°48.1'	N 22°42.1'	52°53.3'	S 16°18.1'	0°18.4'	S 22°14.7'	343°54.3'	S 22°38.6'
5	227°47.3'	N 22°42.6'	67°56.1'	S 16°18.1'	15°20.9'	S 22°14.7'	358°55.5'	S 22°38.5'
6	242°46.6'	N 22°43.2'	82°58.8'	S 16°18.0'	30°23.4'	S 22°14.7'	13°56.7'	S 22°38.4'
7	257°45.8'	N 22°43.8'	98°01.6'	S 16°17.9'	45°26.0'	S 22°14.7'	28°57.9'	S 22°38.3'
8	272°45.1'	N 22°44.3'	113°04.4'	S 16°17.8'	60°28.5'	S 22°14.7'	43°59.1'	S 22°38.2'
9	287°44.3'	N 22°44.9'	128°07.2'	S 16°17.7'	75°31.0'	S 22°14.8'	59°00.4'	S 22°38.1'
10	302°43.5'	N 22°45.5'	143°09.9'	S 16°17.6'	90°33.5'	S 22°14.8'	74°01.6'	S 22°38.0'
11	317°42.8'	N 22°46.0'	158°12.7'	S 16°17.6'	105°36.1'	S 22°14.8'	89°02.8'	S 22°37.9'
12	332°42.0'	N 22°46.6'	173°15.5'	S 16°17.5'	120°38.6'	S 22°14.8'	104°04.0'	S 22°37.8'
13	347°41.3'	N 22°47.2'	188°18.3'	S 16°17.4'	135°41.1'	S 22°14.8'	119°05.2'	S 22°37.7'
14	2°40.5'	N 22°47.7'	203°21.1'	S 16°17.3'	150°43.6'	S 22°14.8'	134°06.4'	S 22°37.6'
15	17°39.7'	N 22°48.3'	218°23.8'	S 16°17.2'	165°46.2'	S 22°14.8'	149°07.7'	S 22°37.5'
16	32°39.0'	N 22°48.9'	233°26.6'	S 16°17.1'	180°48.7'	S 22°14.8'	164°08.9'	S 22°37.4'
17	47°38.2'	N 22°49.4'	248°29.4'	S 16°17.1'	195°51.2'	S 22°14.8'	179°10.1'	S 22°37.3'
18	62°37.4'	N 22°50.0'	263°32.2'	S 16°17.0'	210°53.8'	S 22°14.8'	194°11.3'	S 22°37.2'
19	77°36.7'	N 22°50.5'	278°35.0'	S 16°16.9'	225°56.3'	S 22°14.8'	209°12.5'	S 22°37.1'
20	92°35.9'	N 22°51.1'	293°37.7'	S 16°16.8'	240°58.8'	S 22°14.8'	224°13.8'	S 22°37.0'
21	107°35.1'	N 22°51.6'	308°40.5'	S 16°16.7'	256°01.3'	S 22°14.8'	239°15.0'	S 22°36.9'
22	122°34.4'	N 22°52.2'	323°43.3'	S 16°16.6'	271°03.9'	S 22°14.8'	254°16.2'	S 22°36.8'
23	137°33.6'	N 22°52.8'	338°46.1'	S 16°16.6'	286°06.4'	S 22°14.8'	269°17.4'	S 22°36.7'

Thu May 3, 2018 UTC

UTC	Venus -3.8 v = -0.8' d = 0.5'		Jupiter -2.4 v = 2.8' d = 0.1'		Saturn +0.3 v = 2.5' d = 0.0'		Mars -0.4 v = 1.2' d = 0.1'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	152°32.8'	N 22°53.3'	353°48.8'	S 16°16.5'	301°08.9'	S 22°14.8'	284°18.7'	S 22°36.6'
1	167°32.1'	N 22°53.9'	8°51.6'	S 16°16.4'	316°11.5'	S 22°14.8'	299°19.9'	S 22°36.5'
2	182°31.3'	N 22°54.4'	23°54.4'	S 16°16.3'	331°14.0'	S 22°14.8'	314°21.1'	S 22°36.4'
3	197°30.5'	N 22°55.0'	38°57.2'	S 16°16.2'	346°16.5'	S 22°14.8'	329°22.3'	S 22°36.3'
4	212°29.8'	N 22°55.5'	53°60.0'	S 16°16.1'	1°19.0'	S 22°14.8'	344°23.6'	S 22°36.2'
5	227°29.0'	N 22°56.0'	69°02.7'	S 16°16.1'	16°21.6'	S 22°14.8'	359°24.8'	S 22°36.1'
6	242°28.2'	N 22°56.6'	84°05.5'	S 16°16.0'	31°24.1'	S 22°14.8'	14°26.0'	S 22°36.0'
7	257°27.5'	N 22°57.1'	99°08.3'	S 16°15.9'	46°26.6'	S 22°14.8'	29°27.2'	S 22°35.9'
8	272°26.7'	N 22°57.7'	114°11.1'	S 16°15.8'	61°29.2'	S 22°14.8'	44°28.5'	S 22°35.8'
9	287°25.9'	N 22°58.2'	129°13.9'	S 16°15.7'	76°31.7'	S 22°14.8'	59°29.7'	S 22°35.7'
10	302°25.2'	N 22°58.8'	144°16.6'	S 16°15.6'	91°34.2'	S 22°14.9'	74°30.9'	S 22°35.6'
11	317°24.4'	N 22°59.3'	159°19.4'	S 16°15.6'	106°36.7'	S 22°14.9'	89°32.2'	S 22°35.5'
12	332°23.6'	N 22°59.8'	174°22.2'	S 16°15.5'	121°39.3'	S 22°14.9'	104°33.4'	S 22°35.4'
13	347°22.8'	N 23°00.4'	189°25.0'	S 16°15.4'	136°41.8'	S 22°14.9'	119°34.6'	S 22°35.3'
14	2°22.1'	N 23°00.9'	204°27.8'	S 16°15.3'	151°44.3'	S 22°14.9'	134°35.8'	S 22°35.2'
15	17°21.3'	N 23°01.5'	219°30.5'	S 16°15.2'	166°46.9'	S 22°14.9'	149°37.1'	S 22°35.1'
16	32°20.5'	N 23°02.0'	234°33.3'	S 16°15.1'	181°49.4'	S 22°14.9'	164°38.3'	S 22°35.0'
17	47°19.8'	N 23°02.5'	249°36.1'	S 16°15.1'	196°51.9'	S 22°14.9'	179°39.5'	S 22°34.9'
18	62°19.0'	N 23°03.1'	264°38.9'	S 16°15.0'	211°54.5'	S 22°14.9'	194°40.8'	S 22°34.8'
19	77°18.2'	N 23°03.6'	279°41.7'	S 16°14.9'	226°57.0'	S 22°14.9'	209°42.0'	S 22°34.7'
20	92°17.4'	N 23°04.1'	294°44.4'	S 16°14.8'	241°59.5'	S 22°14.9'	224°43.2'	S 22°34.6'
21	107°16.7'	N 23°04.6'	309°47.2'	S 16°14.7'	257°02.1'	S 22°14.9'	239°44.5'	S 22°34.5'
22	122°15.9'	N 23°05.2'	324°50.0'	S 16°14.6'	272°04.6'	S 22°14.9'	254°45.7'	S 22°34.4'
23	137°15.1'	N 23°05.7'	339°52.8'	S 16°14.6'	287°07.1'	S 22°14.9'	269°46.9'	S 22°34.3'

Fri May 4, 2018 UTC

UTC	Venus -3.8 v = -0.8' d = 0.5'		Jupiter -2.4 v = 2.8' d = 0.1'		Saturn +0.3 v = 2.5' d = 0.0'		Mars -0.5 v = 1.2' d = 0.1'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	152°14.3'	N 23°06.2'	354°55.6'	S 16°14.5'	302°09.7'	S 22°14.9'	284°48.2'	S 22°34.2'
1	167°13.6'	N 23°06.8'	9°58.4'	S 16°14.4'	317°12.2'	S 22°14.9'	299°49.4'	S 22°34.1'
2	182°12.8'	N 23°07.3'	25°01.1'	S 16°14.3'	332°14.7'	S 22°14.9'	314°50.7'	S 22°33.9'
3	197°12.0'	N 23°07.8'	40°03.9'	S 16°14.2'	347°17.3'	S 22°14.9'	329°51.9'	S 22°33.8'
4	212°11.2'	N 23°08.3'	55°06.7'	S 16°14.1'	2°19.8'	S 22°14.9'	344°53.1'	S 22°33.7'
5	227°10.5'	N 23°08.8'	70°09.5'	S 16°14.1'	17°22.3'	S 22°14.9'	359°54.4'	S 22°33.6'
6	242°09.7'	N 23°09.4'	85°12.3'	S 16°14.0'	32°24.9'	S 22°14.9'	14°55.6'	S 22°33.5'
7	257°08.9'	N 23°09.9'	100°15.0'	S 16°13.9'	47°27.4'	S 22°14.9'	29°56.8'	S 22°33.4'
8	272°08.1'	N 23°10.4'	115°17.8'	S 16°13.8'	62°29.9'	S 22°14.9'	44°58.1'	S 22°33.3'
9	287°07.3'	N 23°10.9'	130°20.6'	S 16°13.7'	77°32.5'	S 22°14.9'	59°59.3'	S 22°33.2'
10	302°06.6'	N 23°11.4'	145°23.4'	S 16°13.6'	92°35.0'	S 22°15.0'	75°00.6'	S 22°33.1'
11	317°05.8'	N 23°11.9'	160°26.2'	S 16°13.5'	107°37.5'	S 22°15.0'	90°01.8'	S 22°33.0'
12	332°05.0'	N 23°12.4'	175°28.9'	S 16°13.5'	122°40.1'	S 22°15.0'	105°03.0'	S 22°32.9'
13	347°04.2'	N 23°13.0'	190°31.7'	S 16°13.4'	137°42.6'	S 22°15.0'	120°04.3'	S 22°32.8'
14	2°03.5'	N 23°13.5'	205°34.5'	S 16°13.3'	152°45.1'	S 22°15.0'	135°05.5'	S 22°32.7'
15	17°02.7'	N 23°14.0'	220°37.3'	S 16°13.2'	167°47.7'	S 22°15.0'	150°06.8'	S 22°32.6'
16	32°01.9'	N 23°14.5'	235°40.1'	S 16°13.1'	182°50.2'	S 22°15.0'	165°08.0'	S 22°32.5'
17	47°01.1'	N 23°15.0'	250°42.9'	S 16°13.0'	197°52.7'	S 22°15.0'	180°09.3'	S 22°32.4'
18	62°00.3'	N 23°15.5'	265°45.6'	S 16°13.0'	212°55.3'	S 22°15.0'	195°10.5'	S 22°32.3'
19	76°59.6'	N 23°16.0'	280°48.4'	S 16°12.9'	227°57.8'	S 22°15.0'	210°11.7'	S 22°32.2'
20	91°58.8'	N 23°16.5'	295°51.2'	S 16°12.8'	243°00.3'	S 22°15.0'	225°13.0'	S 22°32.1'
21	106°58.0'	N 23°17.0'	310°54.0'	S 16°12.7'	258°02.9'	S 22°15.0'	240°14.2'	S 22°32.0'
22	121°57.2'	N 23°17.5'	325°56.8'	S 16°12.6'	273°05.4'	S 22°15.0'	255°15.5'	S 22°31.9'
23	136°56.4'	N 23°18.0'	340°59.5'	S 16°12.5'	288°07.9'	S 22°15.0'	270°16.7'	S 22°31.8'

Sat May 5, 2018 UTC

UTC	Venus -3.9		Jupiter -2.4		Saturn +0.3		Mars -0.5	
	v = -0.8' d = 0.5'		v = 2.8' d = 0.1'		v = 2.5' d = 0.0'		v = 1.3' d = 0.1'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	151°55.6'	N 23°18.5'	356°02.3'	S 16°12.5'	303°10.5'	S 22°15.0'	285°18.0'	S 22°31.7'
1	166°54.9'	N 23°19.0'	11°05.1'	S 16°12.4'	318°13.0'	S 22°15.0'	300°19.2'	S 22°31.6'
2	181°54.1'	N 23°19.5'	26°07.9'	S 16°12.3'	333°15.6'	S 22°15.0'	315°20.5'	S 22°31.5'
3	196°53.3'	N 23°20.0'	41°10.7'	S 16°12.2'	348°18.1'	S 22°15.0'	330°21.7'	S 22°31.4'
4	211°52.5'	N 23°20.5'	56°13.5'	S 16°12.1'	3°20.6'	S 22°15.0'	345°23.0'	S 22°31.3'
5	226°51.7'	N 23°21.0'	71°16.2'	S 16°12.0'	18°23.2'	S 22°15.0'	0°24.2'	S 22°31.2'
6	241°50.9'	N 23°21.5'	86°19.0'	S 16°11.9'	33°25.7'	S 22°15.0'	15°25.5'	S 22°31.1'
7	256°50.2'	N 23°22.0'	101°21.8'	S 16°11.9'	48°28.2'	S 22°15.0'	30°26.7'	S 22°31.0'
8	271°49.4'	N 23°22.5'	116°24.6'	S 16°11.8'	63°30.8'	S 22°15.1'	45°28.0'	S 22°30.9'
9	286°48.6'	N 23°22.9'	131°27.4'	S 16°11.7'	78°33.3'	S 22°15.1'	60°29.2'	S 22°30.8'
10	301°47.8'	N 23°23.4'	146°30.1'	S 16°11.6'	93°35.9'	S 22°15.1'	75°30.5'	S 22°30.7'
11	316°47.0'	N 23°23.9'	161°32.9'	S 16°11.5'	108°38.4'	S 22°15.1'	90°31.7'	S 22°30.6'
12	331°46.2'	N 23°24.4'	176°35.7'	S 16°11.4'	123°40.9'	S 22°15.1'	105°33.0'	S 22°30.5'
13	346°45.4'	N 23°24.9'	191°38.5'	S 16°11.4'	138°43.5'	S 22°15.1'	120°34.2'	S 22°30.4'
14	1°44.7'	N 23°25.4'	206°41.3'	S 16°11.3'	153°46.0'	S 22°15.1'	135°35.5'	S 22°30.3'
15	16°43.9'	N 23°25.9'	221°44.1'	S 16°11.2'	168°48.5'	S 22°15.1'	150°36.7'	S 22°30.2'
16	31°43.1'	N 23°26.3'	236°46.8'	S 16°11.1'	183°51.1'	S 22°15.1'	165°38.0'	S 22°30.1'
17	46°42.3'	N 23°26.8'	251°49.6'	S 16°11.0'	198°53.6'	S 22°15.1'	180°39.3'	S 22°30.0'
18	61°41.5'	N 23°27.3'	266°52.4'	S 16°10.9'	213°56.2'	S 22°15.1'	195°40.5'	S 22°29.9'
19	76°40.7'	N 23°27.8'	281°55.2'	S 16°10.9'	228°58.7'	S 22°15.1'	210°41.8'	S 22°29.8'
20	91°39.9'	N 23°28.2'	296°58.0'	S 16°10.8'	244°01.2'	S 22°15.1'	225°43.0'	S 22°29.7'
21	106°39.1'	N 23°28.7'	312°00.7'	S 16°10.7'	259°03.8'	S 22°15.1'	240°44.3'	S 22°29.6'
22	121°38.3'	N 23°29.2'	327°03.5'	S 16°10.6'	274°06.3'	S 22°15.1'	255°45.5'	S 22°29.5'
23	136°37.6'	N 23°29.7'	342°06.3'	S 16°10.5'	289°08.9'	S 22°15.1'	270°46.8'	S 22°29.4'

Sun May 6, 2018 UTC

UTC	Venus -3.9		Jupiter -2.4		Saturn +0.3		Mars -0.5	
	v = -0.8' d = 0.5'		v = 2.8' d = 0.1'		v = 2.5' d = 0.0'		v = 1.3' d = 0.1'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	151°36.8'	N 23°30.1'	357°09.1'	S 16°10.4'	304°11.4'	S 22°15.1'	285°48.1'	S 22°29.3'
1	166°36.0'	N 23°30.6'	12°11.9'	S 16°10.3'	319°13.9'	S 22°15.1'	300°49.3'	S 22°29.2'
2	181°35.2'	N 23°31.1'	27°14.7'	S 16°10.3'	334°16.5'	S 22°15.1'	315°50.6'	S 22°29.1'
3	196°34.4'	N 23°31.5'	42°17.4'	S 16°10.2'	349°19.0'	S 22°15.1'	330°51.8'	S 22°29.0'
4	211°33.6'	N 23°32.0'	57°20.2'	S 16°10.1'	4°21.6'	S 22°15.1'	345°53.1'	S 22°28.9'
5	226°32.8'	N 23°32.5'	72°23.0'	S 16°10.0'	19°24.1'	S 22°15.2'	0°54.4'	S 22°28.8'
6	241°32.0'	N 23°32.9'	87°25.8'	S 16°09.9'	34°26.7'	S 22°15.2'	15°55.6'	S 22°28.7'
7	256°31.2'	N 23°33.4'	102°28.6'	S 16°09.8'	49°29.2'	S 22°15.2'	30°56.9'	S 22°28.6'
8	271°30.4'	N 23°33.9'	117°31.4'	S 16°09.8'	64°31.7'	S 22°15.2'	45°58.2'	S 22°28.4'
9	286°29.6'	N 23°34.3'	132°34.1'	S 16°09.7'	79°34.3'	S 22°15.2'	60°59.4'	S 22°28.3'
10	301°28.8'	N 23°34.8'	147°36.9'	S 16°09.6'	94°36.8'	S 22°15.2'	76°00.7'	S 22°28.2'
11	316°28.1'	N 23°35.3'	162°39.7'	S 16°09.5'	109°39.4'	S 22°15.2'	91°02.0'	S 22°28.1'
12	331°27.3'	N 23°35.7'	177°42.5'	S 16°09.4'	124°41.9'	S 22°15.2'	106°03.2'	S 22°28.0'
13	346°26.5'	N 23°36.2'	192°45.3'	S 16°09.3'	139°44.4'	S 22°15.2'	121°04.5'	S 22°27.9'
14	1°25.7'	N 23°36.6'	207°48.1'	S 16°09.3'	154°47.0'	S 22°15.2'	136°05.7'	S 22°27.8'
15	16°24.9'	N 23°37.1'	222°50.8'	S 16°09.2'	169°49.5'	S 22°15.2'	151°07.0'	S 22°27.7'
16	31°24.1'	N 23°37.5'	237°53.6'	S 16°09.1'	184°52.1'	S 22°15.2'	166°08.3'	S 22°27.6'
17	46°23.3'	N 23°38.0'	252°56.4'	S 16°09.0'	199°54.6'	S 22°15.2'	181°09.6'	S 22°27.5'
18	61°22.5'	N 23°38.4'	267°59.2'	S 16°08.9'	214°57.2'	S 22°15.2'	196°10.8'	S 22°27.4'
19	76°21.7'	N 23°38.9'	283°02.0'	S 16°08.8'	229°59.7'	S 22°15.2'	211°12.1'	S 22°27.3'
20	91°20.9'	N 23°39.3'	298°04.8'	S 16°08.7'	245°02.3'	S 22°15.2'	226°13.4'	S 22°27.2'
21	106°20.1'	N 23°39.8'	313°07.5'	S 16°08.7'	260°04.8'	S 22°15.2'	241°14.6'	S 22°27.1'
22	121°19.3'	N 23°40.2'	328°10.3'	S 16°08.6'	275°07.3'	S 22°15.2'	256°15.9'	S 22°27.0'
23	136°18.5'	N 23°40.7'	343°13.1'	S 16°08.5'	290°09.9'	S 22°15.2'	271°17.2'	S 22°26.9'

Mon May 7, 2018 UTC

UTC	Venus -3.9		Jupiter -2.4		Saturn +0.3		Mars -0.6	
	v = -0.8' d = 0.4'		v = 2.8' d = 0.1'		v = 2.5' d = 0.0'		v = 1.3' d = 0.1'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	151°17.7'	N 23°41.1'	358°15.9'	S 16°08.4'	305°12.4'	S 22°15.2'	286°18.4'	S 22°26.8'
1	166°16.9'	N 23°41.6'	13°18.7'	S 16°08.3'	320°15.0'	S 22°15.3'	301°19.7'	S 22°26.7'
2	181°16.1'	N 23°42.0'	28°21.5'	S 16°08.2'	335°17.5'	S 22°15.3'	316°21.0'	S 22°26.6'
3	196°15.3'	N 23°42.4'	43°24.2'	S 16°08.2'	350°20.1'	S 22°15.3'	331°22.3'	S 22°26.5'
4	211°14.5'	N 23°42.9'	58°27.0'	S 16°08.1'	5°22.6'	S 22°15.3'	346°23.5'	S 22°26.4'
5	226°13.7'	N 23°43.3'	73°29.8'	S 16°08.0'	20°25.2'	S 22°15.3'	1°24.8'	S 22°26.3'
6	241°12.9'	N 23°43.8'	88°32.6'	S 16°07.9'	35°27.7'	S 22°15.3'	16°26.1'	S 22°26.2'
7	256°12.1'	N 23°44.2'	103°35.4'	S 16°07.8'	50°30.2'	S 22°15.3'	31°27.4'	S 22°26.1'
8	271°11.3'	N 23°44.6'	118°38.2'	S 16°07.7'	65°32.8'	S 22°15.3'	46°28.6'	S 22°26.0'
9	286°10.5'	N 23°45.1'	133°40.9'	S 16°07.6'	80°35.3'	S 22°15.3'	61°29.9'	S 22°25.9'
10	301°09.7'	N 23°45.5'	148°43.7'	S 16°07.6'	95°37.9'	S 22°15.3'	76°31.2'	S 22°25.8'
11	316°08.9'	N 23°45.9'	163°46.5'	S 16°07.5'	110°40.4'	S 22°15.3'	91°32.5'	S 22°25.7'
12	331°08.1'	N 23°46.4'	178°49.3'	S 16°07.4'	125°43.0'	S 22°15.3'	106°33.7'	S 22°25.6'
13	346°07.3'	N 23°46.8'	193°52.1'	S 16°07.3'	140°45.5'	S 22°15.3'	121°35.0'	S 22°25.5'
14	1°06.5'	N 23°47.2'	208°54.9'	S 16°07.2'	155°48.1'	S 22°15.3'	136°36.3'	S 22°25.4'
15	16°05.7'	N 23°47.6'	223°57.6'	S 16°07.1'	170°50.6'	S 22°15.3'	151°37.6'	S 22°25.3'
16	31°04.9'	N 23°48.1'	239°00.4'	S 16°07.1'	185°53.2'	S 22°15.3'	166°38.9'	S 22°25.2'
17	46°04.1'	N 23°48.5'	254°03.2'	S 16°07.0'	200°55.7'	S 22°15.3'	181°40.1'	S 22°25.1'
18	61°03.3'	N 23°48.9'	269°06.0'	S 16°06.9'	215°58.3'	S 22°15.3'	196°41.4'	S 22°25.0'
19	76°02.5'	N 23°49.3'	284°08.8'	S 16°06.8'	231°00.8'	S 22°15.3'	211°42.7'	S 22°24.9'
20	91°01.7'	N 23°49.8'	299°11.6'	S 16°06.7'	246°03.4'	S 22°15.4'	226°44.0'	S 22°24.8'
21	106°00.9'	N 23°50.2'	314°14.3'	S 16°06.6'	261°05.9'	S 22°15.4'	241°45.3'	S 22°24.7'
22	121°00.1'	N 23°50.6'	329°17.1'	S 16°06.5'	276°08.4'	S 22°15.4'	256°46.6'	S 22°24.6'
23	135°59.3'	N 23°51.0'	344°19.9'	S 16°06.5'	291°11.0'	S 22°15.4'	271°47.8'	S 22°24.5'

Tue May 8, 2018 UTC

UTC	Venus -3.9		Jupiter -2.4		Saturn +0.3		Mars -0.6	
	v = -0.8' d = 0.4'		v = 2.8' d = 0.1'		v = 2.6' d = 0.0'		v = 1.3' d = 0.1'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	150°58.5'	N 23°51.4'	359°22.7'	S 16°06.4'	306°13.5'	S 22°15.4'	286°49.1'	S 22°24.4'
1	165°57.7'	N 23°51.8'	14°25.5'	S 16°06.3'	321°16.1'	S 22°15.4'	301°50.4'	S 22°24.3'
2	180°56.9'	N 23°52.3'	29°28.3'	S 16°06.2'	336°18.6'	S 22°15.4'	316°51.7'	S 22°24.2'
3	195°56.1'	N 23°52.7'	44°31.0'	S 16°06.1'	351°21.2'	S 22°15.4'	331°53.0'	S 22°24.1'
4	210°55.3'	N 23°53.1'	59°33.8'	S 16°06.0'	6°23.7'	S 22°15.4'	346°54.3'	S 22°24.0'
5	225°54.5'	N 23°53.5'	74°36.6'	S 16°06.0'	21°26.3'	S 22°15.4'	1°55.6'	S 22°23.9'
6	240°53.7'	N 23°53.9'	89°39.4'	S 16°05.9'	36°28.8'	S 22°15.4'	16°56.8'	S 22°23.8'
7	255°52.9'	N 23°54.3'	104°42.2'	S 16°05.8'	51°31.4'	S 22°15.4'	31°58.1'	S 22°23.7'
8	270°52.1'	N 23°54.7'	119°45.0'	S 16°05.7'	66°33.9'	S 22°15.4'	46°59.4'	S 22°23.6'
9	285°51.3'	N 23°55.1'	134°47.7'	S 16°05.6'	81°36.5'	S 22°15.4'	62°00.7'	S 22°23.5'
10	300°50.5'	N 23°55.5'	149°50.5'	S 16°05.5'	96°39.0'	S 22°15.4'	77°02.0'	S 22°23.4'
11	315°49.7'	N 23°55.9'	164°53.3'	S 16°05.4'	111°41.6'	S 22°15.4'	92°03.3'	S 22°23.3'
12	330°48.9'	N 23°56.3'	179°56.1'	S 16°05.4'	126°44.1'	S 22°15.4'	107°04.6'	S 22°23.2'
13	345°48.0'	N 23°56.7'	194°58.9'	S 16°05.3'	141°46.7'	S 22°15.4'	122°05.9'	S 22°23.1'
14	0°47.2'	N 23°57.1'	210°01.7'	S 16°05.2'	156°49.2'	S 22°15.5'	137°07.2'	S 22°23.0'
15	15°46.4'	N 23°57.5'	225°04.4'	S 16°05.1'	171°51.8'	S 22°15.5'	152°08.5'	S 22°22.9'
16	30°45.6'	N 23°57.9'	240°07.2'	S 16°05.0'	186°54.3'	S 22°15.5'	167°09.8'	S 22°22.8'
17	45°44.8'	N 23°58.3'	255°10.0'	S 16°04.9'	201°56.9'	S 22°15.5'	182°11.1'	S 22°22.7'
18	60°44.0'	N 23°58.7'	270°12.8'	S 16°04.9'	216°59.4'	S 22°15.5'	197°12.3'	S 22°22.6'
19	75°43.2'	N 23°59.1'	285°15.6'	S 16°04.8'	232°02.0'	S 22°15.5'	212°13.6'	S 22°22.5'
20	90°42.4'	N 23°59.5'	300°18.4'	S 16°04.7'	247°04.6'	S 22°15.5'	227°14.9'	S 22°22.4'
21	105°41.6'	N 23°59.9'	315°21.2'	S 16°04.6'	262°07.1'	S 22°15.5'	242°16.2'	S 22°22.3'
22	120°40.8'	N 24°00.3'	330°23.9'	S 16°04.5'	277°09.7'	S 22°15.5'	257°17.5'	S 22°22.2'
23	135°40.0'	N 24°00.7'	345°26.7'	S 16°04.4'	292°12.2'	S 22°15.5'	272°18.8'	S 22°22.1'

Wed May 9, 2018 UTC

UTC	Venus -3.9		Jupiter -2.4		Saturn +0.3		Mars -0.6	
	v = -0.8' d = 0.4'		v = 2.8' d = 0.1'		v = 2.6' d = 0.0'		v = 1.3' d = 0.1'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	150°39.2'	N 24°01.1'	0°29.5'	S 16°04.3'	307°14.8'	S 22°15.5'	287°20.1'	S 22°22.0'
1	165°38.3'	N 24°01.5'	15°32.3'	S 16°04.3'	322°17.3'	S 22°15.5'	302°21.4'	S 22°21.9'
2	180°37.5'	N 24°01.8'	30°35.1'	S 16°04.2'	337°19.9'	S 22°15.5'	317°22.7'	S 22°21.8'
3	195°36.7'	N 24°02.2'	45°37.9'	S 16°04.1'	352°22.4'	S 22°15.5'	332°24.0'	S 22°21.7'
4	210°35.9'	N 24°02.6'	60°40.6'	S 16°04.0'	7°25.0'	S 22°15.5'	347°25.3'	S 22°21.6'
5	225°35.1'	N 24°03.0'	75°43.4'	S 16°03.9'	22°27.5'	S 22°15.5'	2°26.6'	S 22°21.5'
6	240°34.3'	N 24°03.4'	90°46.2'	S 16°03.8'	37°30.1'	S 22°15.5'	17°27.9'	S 22°21.4'
7	255°33.5'	N 24°03.8'	105°49.0'	S 16°03.8'	52°32.6'	S 22°15.5'	32°29.2'	S 22°21.3'
8	270°32.7'	N 24°04.1'	120°51.8'	S 16°03.7'	67°35.2'	S 22°15.6'	47°30.5'	S 22°21.2'
9	285°31.9'	N 24°04.5'	135°54.6'	S 16°03.6'	82°37.7'	S 22°15.6'	62°31.8'	S 22°21.1'
10	300°31.0'	N 24°04.9'	150°57.3'	S 16°03.5'	97°40.3'	S 22°15.6'	77°33.1'	S 22°21.0'
11	315°30.2'	N 24°05.3'	166°00.1'	S 16°03.4'	112°42.8'	S 22°15.6'	92°34.4'	S 22°20.9'
12	330°29.4'	N 24°05.6'	181°02.9'	S 16°03.3'	127°45.4'	S 22°15.6'	107°35.7'	S 22°20.8'
13	345°28.6'	N 24°06.0'	196°05.7'	S 16°03.2'	142°48.0'	S 22°15.6'	122°37.1'	S 22°20.7'
14	0°27.8'	N 24°06.4'	211°08.5'	S 16°03.2'	157°50.5'	S 22°15.6'	137°38.4'	S 22°20.6'
15	15°27.0'	N 24°06.7'	226°11.3'	S 16°03.1'	172°53.1'	S 22°15.6'	152°39.7'	S 22°20.5'
16	30°26.2'	N 24°07.1'	241°14.0'	S 16°03.0'	187°55.6'	S 22°15.6'	167°41.0'	S 22°20.4'
17	45°25.4'	N 24°07.5'	256°16.8'	S 16°02.9'	202°58.2'	S 22°15.6'	182°42.3'	S 22°20.3'
18	60°24.5'	N 24°07.9'	271°19.6'	S 16°02.8'	218°00.7'	S 22°15.6'	197°43.6'	S 22°20.2'
19	75°23.7'	N 24°08.2'	286°22.4'	S 16°02.7'	233°03.3'	S 22°15.6'	212°44.9'	S 22°20.1'
20	90°22.9'	N 24°08.6'	301°25.2'	S 16°02.7'	248°05.8'	S 22°15.6'	227°46.2'	S 22°20.0'
21	105°22.1'	N 24°08.9'	316°28.0'	S 16°02.6'	263°08.4'	S 22°15.6'	242°47.5'	S 22°19.9'
22	120°21.3'	N 24°09.3'	331°30.7'	S 16°02.5'	278°11.0'	S 22°15.6'	257°48.8'	S 22°19.8'
23	135°20.5'	N 24°09.7'	346°33.5'	S 16°02.4'	293°13.5'	S 22°15.6'	272°50.1'	S 22°19.7'

Thu May 10, 2018 UTC

UTC	Venus -3.9		Jupiter -2.4		Saturn +0.3		Mars -0.6	
	v = -0.8' d = 0.3'		v = 2.8' d = 0.1'		v = 2.6' d = 0.0'		v = 1.3' d = 0.1'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	150°19.7'	N 24°10.0'	1°36.3'	S 16°02.3'	308°16.1'	S 22°15.6'	287°51.4'	S 22°19.6'
1	165°18.8'	N 24°10.4'	16°39.1'	S 16°02.2'	323°18.6'	S 22°15.7'	302°52.8'	S 22°19.5'
2	180°18.0'	N 24°10.7'	31°41.9'	S 16°02.1'	338°21.2'	S 22°15.7'	317°54.1'	S 22°19.4'
3	195°17.2'	N 24°11.1'	46°44.7'	S 16°02.1'	353°23.7'	S 22°15.7'	332°55.4'	S 22°19.3'
4	210°16.4'	N 24°11.5'	61°47.5'	S 16°02.0'	8°26.3'	S 22°15.7'	347°56.7'	S 22°19.2'
5	225°15.6'	N 24°11.8'	76°50.2'	S 16°01.9'	23°28.9'	S 22°15.7'	2°58.0'	S 22°19.1'
6	240°14.8'	N 24°12.2'	91°53.0'	S 16°01.8'	38°31.4'	S 22°15.7'	17°59.3'	S 22°19.0'
7	255°14.0'	N 24°12.5'	106°55.8'	S 16°01.7'	53°34.0'	S 22°15.7'	33°00.6'	S 22°18.9'
8	270°13.1'	N 24°12.9'	121°58.6'	S 16°01.6'	68°36.5'	S 22°15.7'	48°02.0'	S 22°18.8'
9	285°12.3'	N 24°13.2'	137°01.4'	S 16°01.6'	83°39.1'	S 22°15.7'	63°03.3'	S 22°18.7'
10	300°11.5'	N 24°13.6'	152°04.2'	S 16°01.5'	98°41.6'	S 22°15.7'	78°04.6'	S 22°18.6'
11	315°10.7'	N 24°13.9'	167°06.9'	S 16°01.4'	113°44.2'	S 22°15.7'	93°05.9'	S 22°18.5'
12	330°09.9'	N 24°14.3'	182°09.7'	S 16°01.3'	128°46.8'	S 22°15.7'	108°07.2'	S 22°18.4'
13	345°09.1'	N 24°14.6'	197°12.5'	S 16°01.2'	143°49.3'	S 22°15.7'	123°08.5'	S 22°18.3'
14	0°08.2'	N 24°14.9'	212°15.3'	S 16°01.1'	158°51.9'	S 22°15.7'	138°09.9'	S 22°18.2'
15	15°07.4'	N 24°15.3'	227°18.1'	S 16°01.0'	173°54.4'	S 22°15.7'	153°11.2'	S 22°18.1'
16	30°06.6'	N 24°15.6'	242°20.9'	S 16°01.0'	188°57.0'	S 22°15.7'	168°12.5'	S 22°18.0'
17	45°05.8'	N 24°16.0'	257°23.6'	S 16°00.9'	203°59.6'	S 22°15.7'	183°13.8'	S 22°18.0'
18	60°05.0'	N 24°16.3'	272°26.4'	S 16°00.8'	219°02.1'	S 22°15.8'	198°15.1'	S 22°17.9'
19	75°04.1'	N 24°16.6'	287°29.2'	S 16°00.7'	234°04.7'	S 22°15.8'	213°16.5'	S 22°17.8'
20	90°03.3'	N 24°17.0'	302°32.0'	S 16°00.6'	249°07.2'	S 22°15.8'	228°17.8'	S 22°17.7'
21	105°02.5'	N 24°17.3'	317°34.8'	S 16°00.5'	264°09.8'	S 22°15.8'	243°19.1'	S 22°17.6'
22	120°01.7'	N 24°17.6'	332°37.6'	S 16°00.5'	279°12.4'	S 22°15.8'	258°20.4'	S 22°17.5'
23	135°00.9'	N 24°18.0'	347°40.3'	S 16°00.4'	294°14.9'	S 22°15.8'	273°21.8'	S 22°17.4'

Fri May 11, 2018 UTC

UTC	Venus -3.9		Jupiter -2.4		Saturn +0.3		Mars -0.7	
	v = -0.8' d = 0.3'		v = 2.8' d = 0.1'		v = 2.6' d = 0.0'		v = 1.3' d = 0.1'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	150°00.0'	N 24°18.3'	2°43.1'	S 16°00.3'	309°17.5'	S 22°15.8'	288°23.1'	S 22°17.3'
1	164°59.2'	N 24°18.6'	17°45.9'	S 16°00.2'	324°20.0'	S 22°15.8'	303°24.4'	S 22°17.2'
2	179°58.4'	N 24°19.0'	32°48.7'	S 16°00.1'	339°22.6'	S 22°15.8'	318°25.7'	S 22°17.1'
3	194°57.6'	N 24°19.3'	47°51.5'	S 16°00.0'	354°25.2'	S 22°15.8'	333°27.1'	S 22°17.0'
4	209°56.8'	N 24°19.6'	62°54.3'	S 15°59.9'	9°27.7'	S 22°15.8'	348°28.4'	S 22°16.9'
5	224°55.9'	N 24°20.0'	77°57.0'	S 15°59.9'	24°30.3'	S 22°15.8'	3°29.7'	S 22°16.8'
6	239°55.1'	N 24°20.3'	92°59.8'	S 15°59.8'	39°32.8'	S 22°15.8'	18°31.1'	S 22°16.7'
7	254°54.3'	N 24°20.6'	108°02.6'	S 15°59.7'	54°35.4'	S 22°15.8'	33°32.4'	S 22°16.6'
8	269°53.5'	N 24°20.9'	123°05.4'	S 15°59.6'	69°38.0'	S 22°15.8'	48°33.7'	S 22°16.5'
9	284°52.7'	N 24°21.2'	138°08.2'	S 15°59.5'	84°40.5'	S 22°15.8'	63°35.0'	S 22°16.4'
10	299°51.8'	N 24°21.6'	153°11.0'	S 15°59.4'	99°43.1'	S 22°15.9'	78°36.4'	S 22°16.3'
11	314°51.0'	N 24°21.9'	168°13.7'	S 15°59.4'	114°45.6'	S 22°15.9'	93°37.7'	S 22°16.2'
12	329°50.2'	N 24°22.2'	183°16.5'	S 15°59.3'	129°48.2'	S 22°15.9'	108°39.0'	S 22°16.1'
13	344°49.4'	N 24°22.5'	198°19.3'	S 15°59.2'	144°50.8'	S 22°15.9'	123°40.4'	S 22°16.0'
14	359°48.6'	N 24°22.8'	213°22.1'	S 15°59.1'	159°53.3'	S 22°15.9'	138°41.7'	S 22°15.9'
15	14°47.7'	N 24°23.1'	228°24.9'	S 15°59.0'	174°55.9'	S 22°15.9'	153°43.0'	S 22°15.8'
16	29°46.9'	N 24°23.5'	243°27.7'	S 15°58.9'	189°58.5'	S 22°15.9'	168°44.4'	S 22°15.7'
17	44°46.1'	N 24°23.8'	258°30.4'	S 15°58.8'	205°01.0'	S 22°15.9'	183°45.7'	S 22°15.6'
18	59°45.3'	N 24°24.1'	273°33.2'	S 15°58.8'	220°03.6'	S 22°15.9'	198°47.0'	S 22°15.5'
19	74°44.4'	N 24°24.4'	288°36.0'	S 15°58.7'	235°06.1'	S 22°15.9'	213°48.4'	S 22°15.4'
20	89°43.6'	N 24°24.7'	303°38.8'	S 15°58.6'	250°08.7'	S 22°15.9'	228°49.7'	S 22°15.3'
21	104°42.8'	N 24°25.0'	318°41.6'	S 15°58.5'	265°11.3'	S 22°15.9'	243°51.1'	S 22°15.2'
22	119°42.0'	N 24°25.3'	333°44.4'	S 15°58.4'	280°13.8'	S 22°15.9'	258°52.4'	S 22°15.1'
23	134°41.1'	N 24°25.6'	348°47.1'	S 15°58.3'	295°16.4'	S 22°15.9'	273°53.7'	S 22°15.0'

Sat May 12, 2018 UTC

UTC	Venus -3.9		Jupiter -2.4		Saturn +0.3		Mars -0.7	
	v = -0.8' d = 0.3'		v = 2.8' d = 0.1'		v = 2.6' d = 0.0'		v = 1.3' d = 0.1'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	149°40.3'	N 24°25.9'	3°49.9'	S 15°58.3'	310°19.0'	S 22°15.9'	288°55.1'	S 22°14.9'
1	164°39.5'	N 24°26.2'	18°52.7'	S 15°58.2'	325°21.5'	S 22°15.9'	303°56.4'	S 22°14.9'
2	179°38.7'	N 24°26.5'	33°55.5'	S 15°58.1'	340°24.1'	S 22°16.0'	318°57.8'	S 22°14.8'
3	194°37.8'	N 24°26.8'	48°58.3'	S 15°58.0'	355°26.7'	S 22°16.0'	333°59.1'	S 22°14.7'
4	209°37.0'	N 24°27.1'	64°01.1'	S 15°57.9'	10°29.2'	S 22°16.0'	349°00.4'	S 22°14.6'
5	224°36.2'	N 24°27.4'	79°03.8'	S 15°57.8'	25°31.8'	S 22°16.0'	4°01.8'	S 22°14.5'
6	239°35.4'	N 24°27.7'	94°06.6'	S 15°57.7'	40°34.4'	S 22°16.0'	19°03.1'	S 22°14.4'
7	254°34.5'	N 24°28.0'	109°09.4'	S 15°57.7'	55°36.9'	S 22°16.0'	34°04.5'	S 22°14.3'
8	269°33.7'	N 24°28.3'	124°12.2'	S 15°57.6'	70°39.5'	S 22°16.0'	49°05.8'	S 22°14.2'
9	284°32.9'	N 24°28.6'	139°15.0'	S 15°57.5'	85°42.1'	S 22°16.0'	64°07.2'	S 22°14.1'
10	299°32.1'	N 24°28.9'	154°17.8'	S 15°57.4'	100°44.6'	S 22°16.0'	79°08.5'	S 22°14.0'
11	314°31.2'	N 24°29.2'	169°20.5'	S 15°57.3'	115°47.2'	S 22°16.0'	94°09.8'	S 22°13.9'
12	329°30.4'	N 24°29.4'	184°23.3'	S 15°57.2'	130°49.8'	S 22°16.0'	109°11.2'	S 22°13.8'
13	344°29.6'	N 24°29.7'	199°26.1'	S 15°57.2'	145°52.3'	S 22°16.0'	124°12.5'	S 22°13.7'
14	359°28.8'	N 24°30.0'	214°28.9'	S 15°57.1'	160°54.9'	S 22°16.0'	139°13.9'	S 22°13.6'
15	14°27.9'	N 24°30.3'	229°31.7'	S 15°57.0'	175°57.4'	S 22°16.0'	154°15.2'	S 22°13.5'
16	29°27.1'	N 24°30.6'	244°34.5'	S 15°56.9'	191°00.0'	S 22°16.0'	169°16.6'	S 22°13.4'
17	44°26.3'	N 24°30.9'	259°37.2'	S 15°56.8'	206°02.6'	S 22°16.1'	184°17.9'	S 22°13.3'
18	59°25.5'	N 24°31.2'	274°40.0'	S 15°56.7'	221°05.1'	S 22°16.1'	199°19.3'	S 22°13.2'
19	74°24.6'	N 24°31.4'	289°42.8'	S 15°56.6'	236°07.7'	S 22°16.1'	214°20.6'	S 22°13.1'
20	89°23.8'	N 24°31.7'	304°45.6'	S 15°56.6'	251°10.3'	S 22°16.1'	229°22.0'	S 22°13.0'
21	104°23.0'	N 24°32.0'	319°48.4'	S 15°56.5'	266°12.9'	S 22°16.1'	244°23.3'	S 22°12.9'
22	119°22.2'	N 24°32.3'	334°51.1'	S 15°56.4'	281°15.4'	S 22°16.1'	259°24.7'	S 22°12.9'
23	134°21.3'	N 24°32.5'	349°53.9'	S 15°56.3'	296°18.0'	S 22°16.1'	274°26.1'	S 22°12.8'

Sun May 13, 2018 UTC

UTC	Venus -3.9		Jupiter -2.4		Saturn +0.3		Mars -0.7	
	v = -0.8' d = 0.3'		v = 2.8' d = 0.1'		v = 2.6' d = 0.0'		v = 1.4' d = 0.1'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	149°20.5'	N 24°32.8'	4°56.7'	S 15°56.2'	311°20.6'	S 22°16.1'	289°27.4'	S 22°12.7'
1	164°19.7'	N 24°33.1'	19°59.5'	S 15°56.1'	326°23.1'	S 22°16.1'	304°28.8'	S 22°12.6'
2	179°18.8'	N 24°33.4'	35°02.3'	S 15°56.1'	341°25.7'	S 22°16.1'	319°30.1'	S 22°12.5'
3	194°18.0'	N 24°33.6'	50°05.1'	S 15°56.0'	356°28.3'	S 22°16.1'	334°31.5'	S 22°12.4'
4	209°17.2'	N 24°33.9'	65°07.8'	S 15°55.9'	11°30.8'	S 22°16.1'	349°32.8'	S 22°12.3'
5	224°16.4'	N 24°34.2'	80°10.6'	S 15°55.8'	26°33.4'	S 22°16.1'	4°34.2'	S 22°12.2'
6	239°15.5'	N 24°34.4'	95°13.4'	S 15°55.7'	41°36.0'	S 22°16.1'	19°35.5'	S 22°12.1'
7	254°14.7'	N 24°34.7'	110°16.2'	S 15°55.6'	56°38.5'	S 22°16.1'	34°36.9'	S 22°12.0'
8	269°13.9'	N 24°35.0'	125°19.0'	S 15°55.6'	71°41.1'	S 22°16.2'	49°38.3'	S 22°11.9'
9	284°13.0'	N 24°35.2'	140°21.8'	S 15°55.5'	86°43.7'	S 22°16.2'	64°39.6'	S 22°11.8'
10	299°12.2'	N 24°35.5'	155°24.5'	S 15°55.4'	101°46.2'	S 22°16.2'	79°41.0'	S 22°11.7'
11	314°11.4'	N 24°35.7'	170°27.3'	S 15°55.3'	116°48.8'	S 22°16.2'	94°42.3'	S 22°11.6'
12	329°10.6'	N 24°36.0'	185°30.1'	S 15°55.2'	131°51.4'	S 22°16.2'	109°43.7'	S 22°11.5'
13	344°09.7'	N 24°36.3'	200°32.9'	S 15°55.1'	146°54.0'	S 22°16.2'	124°45.1'	S 22°11.4'
14	359°08.9'	N 24°36.5'	215°35.7'	S 15°55.0'	161°56.5'	S 22°16.2'	139°46.4'	S 22°11.3'
15	14°08.1'	N 24°36.8'	230°38.4'	S 15°55.0'	176°59.1'	S 22°16.2'	154°47.8'	S 22°11.3'
16	29°07.2'	N 24°37.0'	245°41.2'	S 15°54.9'	192°01.7'	S 22°16.2'	169°49.2'	S 22°11.2'
17	44°06.4'	N 24°37.3'	260°44.0'	S 15°54.8'	207°04.2'	S 22°16.2'	184°50.5'	S 22°11.1'
18	59°05.6'	N 24°37.5'	275°46.8'	S 15°54.7'	222°06.8'	S 22°16.2'	199°51.9'	S 22°11.0'
19	74°04.7'	N 24°37.8'	290°49.6'	S 15°54.6'	237°09.4'	S 22°16.2'	214°53.2'	S 22°10.9'
20	89°03.9'	N 24°38.0'	305°52.4'	S 15°54.5'	252°11.9'	S 22°16.2'	229°54.6'	S 22°10.8'
21	104°03.1'	N 24°38.3'	320°55.1'	S 15°54.5'	267°14.5'	S 22°16.2'	244°56.0'	S 22°10.7'
22	119°02.3'	N 24°38.5'	335°57.9'	S 15°54.4'	282°17.1'	S 22°16.2'	259°57.3'	S 22°10.6'
23	134°01.4'	N 24°38.8'	351°00.7'	S 15°54.3'	297°19.7'	S 22°16.3'	274°58.7'	S 22°10.5'

Mon May 14, 2018 UTC

UTC	Venus -3.9		Jupiter -2.4		Saturn +0.3		Mars -0.7	
	v = -0.8' d = 0.2'		v = 2.8' d = 0.1'		v = 2.6' d = 0.0'		v = 1.4' d = 0.1'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	149°00.6'	N 24°39.0'	6°03.5'	S 15°54.2'	312°22.2'	S 22°16.3'	290°00.1'	S 22°10.4'
1	163°59.8'	N 24°39.3'	21°06.3'	S 15°54.1'	327°24.8'	S 22°16.3'	305°01.5'	S 22°10.3'
2	178°58.9'	N 24°39.5'	36°09.0'	S 15°54.0'	342°27.4'	S 22°16.3'	320°02.8'	S 22°10.2'
3	193°58.1'	N 24°39.7'	51°11.8'	S 15°54.0'	357°29.9'	S 22°16.3'	335°04.2'	S 22°10.1'
4	208°57.3'	N 24°40.0'	66°14.6'	S 15°53.9'	12°32.5'	S 22°16.3'	350°05.6'	S 22°10.1'
5	223°56.4'	N 24°40.2'	81°17.4'	S 15°53.8'	27°35.1'	S 22°16.3'	5°06.9'	S 22°10.0'
6	238°55.6'	N 24°40.5'	96°20.2'	S 15°53.7'	42°37.7'	S 22°16.3'	20°08.3'	S 22°09.9'
7	253°54.8'	N 24°40.7'	111°22.9'	S 15°53.6'	57°40.2'	S 22°16.3'	35°09.7'	S 22°09.8'
8	268°53.9'	N 24°40.9'	126°25.7'	S 15°53.5'	72°42.8'	S 22°16.3'	50°11.1'	S 22°09.7'
9	283°53.1'	N 24°41.2'	141°28.5'	S 15°53.5'	87°45.4'	S 22°16.3'	65°12.4'	S 22°09.6'
10	298°52.3'	N 24°41.4'	156°31.3'	S 15°53.4'	102°48.0'	S 22°16.3'	80°13.8'	S 22°09.5'
11	313°51.4'	N 24°41.6'	171°34.1'	S 15°53.3'	117°50.5'	S 22°16.3'	95°15.2'	S 22°09.4'
12	328°50.6'	N 24°41.9'	186°36.9'	S 15°53.2'	132°53.1'	S 22°16.3'	110°16.6'	S 22°09.3'
13	343°49.8'	N 24°42.1'	201°39.6'	S 15°53.1'	147°55.7'	S 22°16.4'	125°17.9'	S 22°09.2'
14	358°48.9'	N 24°42.3'	216°42.4'	S 15°53.0'	162°58.3'	S 22°16.4'	140°19.3'	S 22°09.1'
15	13°48.1'	N 24°42.5'	231°45.2'	S 15°52.9'	178°00.8'	S 22°16.4'	155°20.7'	S 22°09.0'
16	28°47.3'	N 24°42.8'	246°48.0'	S 15°52.9'	193°03.4'	S 22°16.4'	170°22.1'	S 22°09.0'
17	43°46.5'	N 24°43.0'	261°50.8'	S 15°52.8'	208°06.0'	S 22°16.4'	185°23.5'	S 22°08.9'
18	58°45.6'	N 24°43.2'	276°53.5'	S 15°52.7'	223°08.5'	S 22°16.4'	200°24.8'	S 22°08.8'
19	73°44.8'	N 24°43.4'	291°56.3'	S 15°52.6'	238°11.1'	S 22°16.4'	215°26.2'	S 22°08.7'
20	88°44.0'	N 24°43.7'	306°59.1'	S 15°52.5'	253°13.7'	S 22°16.4'	230°27.6'	S 22°08.6'
21	103°43.1'	N 24°43.9'	322°01.9'	S 15°52.4'	268°16.3'	S 22°16.4'	245°29.0'	S 22°08.5'
22	118°42.3'	N 24°44.1'	337°04.7'	S 15°52.4'	283°18.8'	S 22°16.4'	260°30.4'	S 22°08.4'
23	133°41.5'	N 24°44.3'	352°07.4'	S 15°52.3'	298°21.4'	S 22°16.4'	275°31.7'	S 22°08.3'

Tue May 15, 2018 UTC

UTC	Venus -3.9 v = -0.8' d = 0.2'		Jupiter -2.4 v = 2.8' d = 0.1'		Saturn +0.3 v = 2.6' d = 0.0'		Mars -0.8 v = 1.4' d = 0.1'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	148°40.6'	N 24°44.5'	7°10.2'	S 15°52.2'	313°24.0'	S 22°16.4'	290°33.1'	S 22°08.2'
1	163°39.8'	N 24°44.7'	22°13.0'	S 15°52.1'	328°26.6'	S 22°16.4'	305°34.5'	S 22°08.1'
2	178°39.0'	N 24°44.9'	37°15.8'	S 15°52.0'	343°29.2'	S 22°16.4'	320°35.9'	S 22°08.0'
3	193°38.1'	N 24°45.2'	52°18.6'	S 15°51.9'	358°31.7'	S 22°16.5'	335°37.3'	S 22°08.0'
4	208°37.3'	N 24°45.4'	67°21.3'	S 15°51.9'	13°34.3'	S 22°16.5'	350°38.7'	S 22°07.9'
5	223°36.5'	N 24°45.6'	82°24.1'	S 15°51.8'	28°36.9'	S 22°16.5'	5°40.1'	S 22°07.8'
6	238°35.6'	N 24°45.8'	97°26.9'	S 15°51.7'	43°39.5'	S 22°16.5'	20°41.5'	S 22°07.7'
7	253°34.8'	N 24°46.0'	112°29.7'	S 15°51.6'	58°42.0'	S 22°16.5'	35°42.8'	S 22°07.6'
8	268°33.9'	N 24°46.2'	127°32.5'	S 15°51.5'	73°44.6'	S 22°16.5'	50°44.2'	S 22°07.5'
9	283°33.1'	N 24°46.4'	142°35.2'	S 15°51.4'	88°47.2'	S 22°16.5'	65°45.6'	S 22°07.4'
10	298°32.3'	N 24°46.6'	157°38.0'	S 15°51.4'	103°49.8'	S 22°16.5'	80°47.0'	S 22°07.3'
11	313°31.4'	N 24°46.8'	172°40.8'	S 15°51.3'	118°52.3'	S 22°16.5'	95°48.4'	S 22°07.2'
12	328°30.6'	N 24°47.0'	187°43.6'	S 15°51.2'	133°54.9'	S 22°16.5'	110°49.8'	S 22°07.1'
13	343°29.8'	N 24°47.2'	202°46.4'	S 15°51.1'	148°57.5'	S 22°16.5'	125°51.2'	S 22°07.1'
14	358°28.9'	N 24°47.4'	217°49.1'	S 15°51.0'	164°00.1'	S 22°16.5'	140°52.6'	S 22°07.0'
15	13°28.1'	N 24°47.6'	232°51.9'	S 15°50.9'	179°02.6'	S 22°16.5'	155°54.0'	S 22°06.9'
16	28°27.3'	N 24°47.8'	247°54.7'	S 15°50.9'	194°05.2'	S 22°16.5'	170°55.4'	S 22°06.8'
17	43°26.4'	N 24°48.0'	262°57.5'	S 15°50.8'	209°07.8'	S 22°16.6'	185°56.8'	S 22°06.7'
18	58°25.6'	N 24°48.2'	278°00.3'	S 15°50.7'	224°10.4'	S 22°16.6'	200°58.2'	S 22°06.6'
19	73°24.8'	N 24°48.4'	293°03.0'	S 15°50.6'	239°13.0'	S 22°16.6'	215°59.6'	S 22°06.5'
20	88°23.9'	N 24°48.6'	308°05.8'	S 15°50.5'	254°15.5'	S 22°16.6'	231°01.0'	S 22°06.4'
21	103°23.1'	N 24°48.8'	323°08.6'	S 15°50.4'	269°18.1'	S 22°16.6'	246°02.3'	S 22°06.3'
22	118°22.3'	N 24°48.9'	338°11.4'	S 15°50.4'	284°20.7'	S 22°16.6'	261°03.7'	S 22°06.3'
23	133°21.4'	N 24°49.1'	353°14.1'	S 15°50.3'	299°23.3'	S 22°16.6'	276°05.1'	S 22°06.2'

Wed May 16, 2018 UTC

UTC	Venus -3.9 v = -0.8' d = 0.2'		Jupiter -2.4 v = 2.8' d = 0.1'		Saturn +0.3 v = 2.6' d = 0.0'		Mars -0.8 v = 1.4' d = 0.1'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	148°20.6'	N 24°49.3'	8°16.9'	S 15°50.2'	314°25.9'	S 22°16.6'	291°06.5'	S 22°06.1'
1	163°19.8'	N 24°49.5'	23°19.7'	S 15°50.1'	329°28.4'	S 22°16.6'	306°07.9'	S 22°06.0'
2	178°18.9'	N 24°49.7'	38°22.5'	S 15°50.0'	344°31.0'	S 22°16.6'	321°09.3'	S 22°05.9'
3	193°18.1'	N 24°49.9'	53°25.3'	S 15°49.9'	359°33.6'	S 22°16.6'	336°10.7'	S 22°05.8'
4	208°17.3'	N 24°50.1'	68°28.0'	S 15°49.9'	14°36.2'	S 22°16.6'	351°12.2'	S 22°05.7'
5	223°16.4'	N 24°50.2'	83°30.8'	S 15°49.8'	29°38.8'	S 22°16.6'	6°13.6'	S 22°05.6'
6	238°15.6'	N 24°50.4'	98°33.6'	S 15°49.7'	44°41.3'	S 22°16.6'	21°15.0'	S 22°05.6'
7	253°14.7'	N 24°50.6'	113°36.4'	S 15°49.6'	59°43.9'	S 22°16.7'	36°16.4'	S 22°05.5'
8	268°13.9'	N 24°50.8'	128°39.2'	S 15°49.5'	74°46.5'	S 22°16.7'	51°17.8'	S 22°05.4'
9	283°13.1'	N 24°50.9'	143°41.9'	S 15°49.4'	89°49.1'	S 22°16.7'	66°19.2'	S 22°05.3'
10	298°12.2'	N 24°51.1'	158°44.7'	S 15°49.4'	104°51.7'	S 22°16.7'	81°20.6'	S 22°05.2'
11	313°11.4'	N 24°51.3'	173°47.5'	S 15°49.3'	119°54.2'	S 22°16.7'	96°22.0'	S 22°05.1'
12	328°10.6'	N 24°51.5'	188°50.3'	S 15°49.2'	134°56.8'	S 22°16.7'	111°23.4'	S 22°05.0'
13	343°09.7'	N 24°51.6'	203°53.0'	S 15°49.1'	149°59.4'	S 22°16.7'	126°24.8'	S 22°04.9'
14	358°08.9'	N 24°51.8'	218°55.8'	S 15°49.0'	165°02.0'	S 22°16.7'	141°26.2'	S 22°04.9'
15	13°08.1'	N 24°52.0'	233°58.6'	S 15°48.9'	180°04.6'	S 22°16.7'	156°27.6'	S 22°04.8'
16	28°07.2'	N 24°52.1'	249°01.4'	S 15°48.9'	195°07.1'	S 22°16.7'	171°29.0'	S 22°04.7'
17	43°06.4'	N 24°52.3'	264°04.2'	S 15°48.8'	210°09.7'	S 22°16.7'	186°30.4'	S 22°04.6'
18	58°05.6'	N 24°52.5'	279°06.9'	S 15°48.7'	225°12.3'	S 22°16.7'	201°31.9'	S 22°04.5'
19	73°04.7'	N 24°52.6'	294°09.7'	S 15°48.6'	240°14.9'	S 22°16.7'	216°33.3'	S 22°04.4'
20	88°03.9'	N 24°52.8'	309°12.5'	S 15°48.5'	255°17.5'	S 22°16.8'	231°34.7'	S 22°04.3'
21	103°03.0'	N 24°52.9'	324°15.3'	S 15°48.4'	270°20.0'	S 22°16.8'	246°36.1'	S 22°04.3'
22	118°02.2'	N 24°53.1'	339°18.0'	S 15°48.4'	285°22.6'	S 22°16.8'	261°37.5'	S 22°04.2'
23	133°01.4'	N 24°53.3'	354°20.8'	S 15°48.3'	300°25.2'	S 22°16.8'	276°38.9'	S 22°04.1'

Thu May 17, 2018 UTC

UTC	Venus -3.9 v = -0.8' d = 0.1'		Jupiter -2.4 v = 2.8' d = 0.1'		Saturn +0.2 v = 2.6' d = 0.0'		Mars -0.8 v = 1.4' d = 0.1'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	148°00.5'	N 24°53.4'	9°23.6'	S 15°48.2'	315°27.8'	S 22°16.8'	291°40.3'	S 22°04.0'
1	162°59.7'	N 24°53.6'	24°26.4'	S 15°48.1'	330°30.4'	S 22°16.8'	306°41.8'	S 22°03.9'
2	177°58.9'	N 24°53.7'	39°29.2'	S 15°48.0'	345°33.0'	S 22°16.8'	321°43.2'	S 22°03.8'
3	192°58.0'	N 24°53.9'	54°31.9'	S 15°47.9'	0°35.5'	S 22°16.8'	336°44.6'	S 22°03.7'
4	207°57.2'	N 24°54.0'	69°34.7'	S 15°47.9'	15°38.1'	S 22°16.8'	351°46.0'	S 22°03.7'
5	222°56.4'	N 24°54.2'	84°37.5'	S 15°47.8'	30°40.7'	S 22°16.8'	6°47.4'	S 22°03.6'
6	237°55.5'	N 24°54.3'	99°40.3'	S 15°47.7'	45°43.3'	S 22°16.8'	21°48.8'	S 22°03.5'
7	252°54.7'	N 24°54.5'	114°43.0'	S 15°47.6'	60°45.9'	S 22°16.8'	36°50.3'	S 22°03.4'
8	267°53.8'	N 24°54.6'	129°45.8'	S 15°47.5'	75°48.5'	S 22°16.8'	51°51.7'	S 22°03.3'
9	282°53.0'	N 24°54.8'	144°48.6'	S 15°47.4'	90°51.0'	S 22°16.9'	66°53.1'	S 22°03.2'
10	297°52.2'	N 24°54.9'	159°51.4'	S 15°47.4'	105°53.6'	S 22°16.9'	81°54.5'	S 22°03.1'
11	312°51.3'	N 24°55.1'	174°54.1'	S 15°47.3'	120°56.2'	S 22°16.9'	96°56.0'	S 22°03.1'
12	327°50.5'	N 24°55.2'	189°56.9'	S 15°47.2'	135°58.8'	S 22°16.9'	111°57.4'	S 22°03.0'
13	342°49.7'	N 24°55.3'	204°59.7'	S 15°47.1'	151°01.4'	S 22°16.9'	126°58.8'	S 22°02.9'
14	357°48.8'	N 24°55.5'	220°02.5'	S 15°47.0'	166°04.0'	S 22°16.9'	142°00.2'	S 22°02.8'
15	12°48.0'	N 24°55.6'	235°05.2'	S 15°47.0'	181°06.6'	S 22°16.9'	157°01.7'	S 22°02.7'
16	27°47.2'	N 24°55.8'	250°08.0'	S 15°46.9'	196°09.1'	S 22°16.9'	172°03.1'	S 22°02.6'
17	42°46.3'	N 24°55.9'	265°10.8'	S 15°46.8'	211°11.7'	S 22°16.9'	187°04.5'	S 22°02.6'
18	57°45.5'	N 24°56.0'	280°13.6'	S 15°46.7'	226°14.3'	S 22°16.9'	202°05.9'	S 22°02.5'
19	72°44.6'	N 24°56.2'	295°16.4'	S 15°46.6'	241°16.9'	S 22°16.9'	217°07.4'	S 22°02.4'
20	87°43.8'	N 24°56.3'	310°19.1'	S 15°46.5'	256°19.5'	S 22°16.9'	232°08.8'	S 22°02.3'
21	102°43.0'	N 24°56.4'	325°21.9'	S 15°46.5'	271°22.1'	S 22°16.9'	247°10.2'	S 22°02.2'
22	117°42.1'	N 24°56.5'	340°24.7'	S 15°46.4'	286°24.6'	S 22°17.0'	262°11.6'	S 22°02.1'
23	132°41.3'	N 24°56.7'	355°27.5'	S 15°46.3'	301°27.2'	S 22°17.0'	277°13.1'	S 22°02.1'

Fri May 18, 2018 UTC

UTC	Venus -3.9 v = -0.8' d = 0.1'		Jupiter -2.4 v = 2.8' d = 0.1'		Saturn +0.2 v = 2.6' d = 0.0'		Mars -0.8 v = 1.4' d = 0.1'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	147°40.5'	N 24°56.8'	10°30.2'	S 15°46.2'	316°29.8'	S 22°17.0'	292°14.5'	S 22°02.0'
1	162°39.6'	N 24°56.9'	25°33.0'	S 15°46.1'	331°32.4'	S 22°17.0'	307°15.9'	S 22°01.9'
2	177°38.8'	N 24°57.1'	40°35.8'	S 15°46.0'	346°35.0'	S 22°17.0'	322°17.4'	S 22°01.8'
3	192°38.0'	N 24°57.2'	55°38.6'	S 15°46.0'	1°37.6'	S 22°17.0'	337°18.8'	S 22°01.7'
4	207°37.1'	N 24°57.3'	70°41.3'	S 15°45.9'	16°40.2'	S 22°17.0'	352°20.2'	S 22°01.6'
5	222°36.3'	N 24°57.4'	85°44.1'	S 15°45.8'	31°42.8'	S 22°17.0'	7°21.7'	S 22°01.6'
6	237°35.4'	N 24°57.5'	100°46.9'	S 15°45.7'	46°45.3'	S 22°17.0'	22°23.1'	S 22°01.5'
7	252°34.6'	N 24°57.7'	115°49.7'	S 15°45.6'	61°47.9'	S 22°17.0'	37°24.6'	S 22°01.4'
8	267°33.8'	N 24°57.8'	130°52.4'	S 15°45.6'	76°50.5'	S 22°17.0'	52°26.0'	S 22°01.3'
9	282°32.9'	N 24°57.9'	145°55.2'	S 15°45.5'	91°53.1'	S 22°17.0'	67°27.4'	S 22°01.2'
10	297°32.1'	N 24°58.0'	160°58.0'	S 15°45.4'	106°55.7'	S 22°17.0'	82°28.9'	S 22°01.1'
11	312°31.3'	N 24°58.1'	176°00.8'	S 15°45.3'	121°58.3'	S 22°17.1'	97°30.3'	S 22°01.1'
12	327°30.4'	N 24°58.2'	191°03.5'	S 15°45.2'	137°00.9'	S 22°17.1'	112°31.7'	S 22°01.0'
13	342°29.6'	N 24°58.3'	206°06.3'	S 15°45.1'	152°03.5'	S 22°17.1'	127°33.2'	S 22°00.9'
14	357°28.7'	N 24°58.4'	221°09.1'	S 15°45.1'	167°06.0'	S 22°17.1'	142°34.6'	S 22°00.8'
15	12°27.9'	N 24°58.6'	236°11.8'	S 15°45.0'	182°08.6'	S 22°17.1'	157°36.1'	S 22°00.7'
16	27°27.1'	N 24°58.7'	251°14.6'	S 15°44.9'	197°11.2'	S 22°17.1'	172°37.5'	S 22°00.7'
17	42°26.2'	N 24°58.8'	266°17.4'	S 15°44.8'	212°13.8'	S 22°17.1'	187°39.0'	S 22°00.6'
18	57°25.4'	N 24°58.9'	281°20.2'	S 15°44.7'	227°16.4'	S 22°17.1'	202°40.4'	S 22°00.5'
19	72°24.6'	N 24°59.0'	296°22.9'	S 15°44.7'	242°19.0'	S 22°17.1'	217°41.8'	S 22°00.4'
20	87°23.7'	N 24°59.1'	311°25.7'	S 15°44.6'	257°21.6'	S 22°17.1'	232°43.3'	S 22°00.3'
21	102°22.9'	N 24°59.2'	326°28.5'	S 15°44.5'	272°24.2'	S 22°17.1'	247°44.7'	S 22°00.3'
22	117°22.1'	N 24°59.3'	341°31.3'	S 15°44.4'	287°26.8'	S 22°17.1'	262°46.2'	S 22°00.2'
23	132°21.2'	N 24°59.4'	356°34.0'	S 15°44.3'	302°29.3'	S 22°17.2'	277°47.6'	S 22°00.1'

Sat May 19, 2018 UTC

UTC	Venus -3.9 v = -0.8' d = 0.1'		Jupiter -2.4 v = 2.8' d = 0.1'		Saturn +0.2 v = 2.6' d = 0.0'		Mars -0.9 v = 1.5' d = 0.1'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	147°20.4'	N 24°59.5'	11°36.8'	S 15°44.2'	317°31.9'	S 22°17.2'	292°49.1'	S 22°00.0'
1	162°19.5'	N 24°59.6'	26°39.6'	S 15°44.2'	332°34.5'	S 22°17.2'	307°50.5'	S 21°59.9'
2	177°18.7'	N 24°59.7'	41°42.4'	S 15°44.1'	347°37.1'	S 22°17.2'	322°52.0'	S 21°59.9'
3	192°17.9'	N 24°59.8'	56°45.1'	S 15°44.0'	2°39.7'	S 22°17.2'	337°53.4'	S 21°59.8'
4	207°17.0'	N 24°59.9'	71°47.9'	S 15°43.9'	17°42.3'	S 22°17.2'	352°54.9'	S 21°59.7'
5	222°16.2'	N 24°59.9'	86°50.7'	S 15°43.8'	32°44.9'	S 22°17.2'	7°56.3'	S 21°59.6'
6	237°15.4'	N 25°00.0'	101°53.4'	S 15°43.8'	47°47.5'	S 22°17.2'	22°57.8'	S 21°59.5'
7	252°14.5'	N 25°00.1'	116°56.2'	S 15°43.7'	62°50.1'	S 22°17.2'	37°59.2'	S 21°59.5'
8	267°13.7'	N 25°00.2'	131°59.0'	S 15°43.6'	77°52.7'	S 22°17.2'	53°00.7'	S 21°59.4'
9	282°12.9'	N 25°00.3'	147°01.8'	S 15°43.5'	92°55.2'	S 22°17.2'	68°02.1'	S 21°59.3'
10	297°12.0'	N 25°00.4'	162°04.5'	S 15°43.4'	107°57.8'	S 22°17.2'	83°03.6'	S 21°59.2'
11	312°11.2'	N 25°00.5'	177°07.3'	S 15°43.3'	123°00.4'	S 22°17.2'	98°05.1'	S 21°59.1'
12	327°10.3'	N 25°00.5'	192°10.1'	S 15°43.3'	138°03.0'	S 22°17.3'	113°06.5'	S 21°59.1'
13	342°09.5'	N 25°00.6'	207°12.9'	S 15°43.2'	153°05.6'	S 22°17.3'	128°08.0'	S 21°59.0'
14	357°08.7'	N 25°00.7'	222°15.6'	S 15°43.1'	168°08.2'	S 22°17.3'	143°09.4'	S 21°58.9'
15	12°07.8'	N 25°00.8'	237°18.4'	S 15°43.0'	183°10.8'	S 22°17.3'	158°10.9'	S 21°58.8'
16	27°07.0'	N 25°00.9'	252°21.2'	S 15°42.9'	198°13.4'	S 22°17.3'	173°12.3'	S 21°58.7'
17	42°06.2'	N 25°00.9'	267°23.9'	S 15°42.9'	213°16.0'	S 22°17.3'	188°13.8'	S 21°58.7'
18	57°05.3'	N 25°01.0'	282°26.7'	S 15°42.8'	228°18.6'	S 22°17.3'	203°15.3'	S 21°58.6'
19	72°04.5'	N 25°01.1'	297°29.5'	S 15°42.7'	243°21.2'	S 22°17.3'	218°16.7'	S 21°58.5'
20	87°03.7'	N 25°01.2'	312°32.3'	S 15°42.6'	258°23.8'	S 22°17.3'	233°18.2'	S 21°58.4'
21	102°02.8'	N 25°01.2'	327°35.0'	S 15°42.5'	273°26.3'	S 22°17.3'	248°19.6'	S 21°58.4'
22	117°02.0'	N 25°01.3'	342°37.8'	S 15°42.5'	288°28.9'	S 22°17.3'	263°21.1'	S 21°58.3'
23	132°01.2'	N 25°01.4'	357°40.6'	S 15°42.4'	303°31.5'	S 22°17.3'	278°22.6'	S 21°58.2'

Sun May 20, 2018 UTC

UTC	Venus -3.9 v = -0.8' d = 0.1'		Jupiter -2.4 v = 2.8' d = 0.1'		Saturn +0.2 v = 2.6' d = 0.0'		Mars -0.9 v = 1.5' d = 0.1'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	147°00.3'	N 25°01.4'	12°43.3'	S 15°42.3'	318°34.1'	S 22°17.4'	293°24.0'	S 21°58.1'
1	161°59.5'	N 25°01.5'	27°46.1'	S 15°42.2'	333°36.7'	S 22°17.4'	308°25.5'	S 21°58.1'
2	176°58.6'	N 25°01.6'	42°48.9'	S 15°42.1'	348°39.3'	S 22°17.4'	323°27.0'	S 21°58.0'
3	191°57.8'	N 25°01.6'	57°51.7'	S 15°42.0'	3°41.9'	S 22°17.4'	338°28.4'	S 21°57.9'
4	206°57.0'	N 25°01.7'	72°54.4'	S 15°42.0'	18°44.5'	S 22°17.4'	353°29.9'	S 21°57.8'
5	221°56.1'	N 25°01.8'	87°57.2'	S 15°41.9'	33°47.1'	S 22°17.4'	8°31.4'	S 21°57.7'
6	236°55.3'	N 25°01.8'	102°60.0'	S 15°41.8'	48°49.7'	S 22°17.4'	23°32.8'	S 21°57.7'
7	251°54.5'	N 25°01.9'	118°02.7'	S 15°41.7'	63°52.3'	S 22°17.4'	38°34.3'	S 21°57.6'
8	266°53.6'	N 25°01.9'	133°05.5'	S 15°41.6'	78°54.9'	S 22°17.4'	53°35.8'	S 21°57.5'
9	281°52.8'	N 25°02.0'	148°08.3'	S 15°41.6'	93°57.5'	S 22°17.4'	68°37.3'	S 21°57.4'
10	296°52.0'	N 25°02.0'	163°11.0'	S 15°41.5'	109°00.1'	S 22°17.4'	83°38.7'	S 21°57.4'
11	311°51.1'	N 25°02.1'	178°13.8'	S 15°41.4'	124°02.7'	S 22°17.4'	98°40.2'	S 21°57.3'
12	326°50.3'	N 25°02.2'	193°16.6'	S 15°41.3'	139°05.2'	S 22°17.5'	113°41.7'	S 21°57.2'
13	341°49.5'	N 25°02.2'	208°19.4'	S 15°41.2'	154°07.8'	S 22°17.5'	128°43.1'	S 21°57.1'
14	356°48.6'	N 25°02.3'	223°22.1'	S 15°41.2'	169°10.4'	S 22°17.5'	143°44.6'	S 21°57.1'
15	11°47.8'	N 25°02.3'	238°24.9'	S 15°41.1'	184°13.0'	S 22°17.5'	158°46.1'	S 21°57.0'
16	26°47.0'	N 25°02.4'	253°27.7'	S 15°41.0'	199°15.6'	S 22°17.5'	173°47.6'	S 21°56.9'
17	41°46.1'	N 25°02.4'	268°30.4'	S 15°40.9'	214°18.2'	S 22°17.5'	188°49.1'	S 21°56.8'
18	56°45.3'	N 25°02.4'	283°33.2'	S 15°40.8'	229°20.8'	S 22°17.5'	203°50.5'	S 21°56.8'
19	71°44.5'	N 25°02.5'	298°36.0'	S 15°40.8'	244°23.4'	S 22°17.5'	218°52.0'	S 21°56.7'
20	86°43.6'	N 25°02.5'	313°38.7'	S 15°40.7'	259°26.0'	S 22°17.5'	233°53.5'	S 21°56.6'
21	101°42.8'	N 25°02.6'	328°41.5'	S 15°40.6'	274°28.6'	S 22°17.5'	248°55.0'	S 21°56.5'
22	116°42.0'	N 25°02.6'	343°44.3'	S 15°40.5'	289°31.2'	S 22°17.5'	263°56.4'	S 21°56.5'
23	131°41.1'	N 25°02.6'	358°47.0'	S 15°40.4'	304°33.8'	S 22°17.5'	278°57.9'	S 21°56.4'

Mon May 21, 2018 UTC

UTC	Venus -3.9		Jupiter -2.4		Saturn +0.2		Mars -0.9	
	v = -0.8' d = 0.0'		v = 2.8' d = 0.1'		v = 2.6' d = 0.0'		v = 1.5' d = 0.1'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	146°40.3'	N 25°02.7'	13°49.8'	S 15°40.4'	319°36.4'	S 22°17.6'	293°59.4'	S 21°56.3'
1	161°39.5'	N 25°02.7'	28°52.6'	S 15°40.3'	334°39.0'	S 22°17.6'	309°00.9'	S 21°56.2'
2	176°38.6'	N 25°02.8'	43°55.3'	S 15°40.2'	349°41.6'	S 22°17.6'	324°02.4'	S 21°56.2'
3	191°37.8'	N 25°02.8'	58°58.1'	S 15°40.1'	4°44.2'	S 22°17.6'	339°03.9'	S 21°56.1'
4	206°37.0'	N 25°02.8'	74°00.9'	S 15°40.0'	19°46.8'	S 22°17.6'	354°05.3'	S 21°56.0'
5	221°36.1'	N 25°02.9'	89°03.7'	S 15°40.0'	34°49.4'	S 22°17.6'	9°06.8'	S 21°56.0'
6	236°35.3'	N 25°02.9'	104°06.4'	S 15°39.9'	49°52.0'	S 22°17.6'	24°08.3'	S 21°55.9'
7	251°34.5'	N 25°02.9'	119°09.2'	S 15°39.8'	64°54.6'	S 22°17.6'	39°09.8'	S 21°55.8'
8	266°33.6'	N 25°02.9'	134°12.0'	S 15°39.7'	79°57.2'	S 22°17.6'	54°11.3'	S 21°55.7'
9	281°32.8'	N 25°03.0'	149°14.7'	S 15°39.6'	94°59.8'	S 22°17.6'	69°12.8'	S 21°55.7'
10	296°32.0'	N 25°03.0'	164°17.5'	S 15°39.6'	110°02.4'	S 22°17.6'	84°14.3'	S 21°55.6'
11	311°31.1'	N 25°03.0'	179°20.3'	S 15°39.5'	125°05.0'	S 22°17.6'	99°15.8'	S 21°55.5'
12	326°30.3'	N 25°03.0'	194°23.0'	S 15°39.4'	140°07.6'	S 22°17.7'	114°17.2'	S 21°55.4'
13	341°29.5'	N 25°03.1'	209°25.8'	S 15°39.3'	155°10.2'	S 22°17.7'	129°18.7'	S 21°55.4'
14	356°28.6'	N 25°03.1'	224°28.6'	S 15°39.2'	170°12.8'	S 22°17.7'	144°20.2'	S 21°55.3'
15	11°27.8'	N 25°03.1'	239°31.3'	S 15°39.2'	185°15.4'	S 22°17.7'	159°21.7'	S 21°55.2'
16	26°27.0'	N 25°03.1'	254°34.1'	S 15°39.1'	200°18.0'	S 22°17.7'	174°23.2'	S 21°55.2'
17	41°26.1'	N 25°03.1'	269°36.9'	S 15°39.0'	215°20.6'	S 22°17.7'	189°24.7'	S 21°55.1'
18	56°25.3'	N 25°03.2'	284°39.6'	S 15°38.9'	230°23.2'	S 22°17.7'	204°26.2'	S 21°55.0'
19	71°24.5'	N 25°03.2'	299°42.4'	S 15°38.8'	245°25.7'	S 22°17.7'	219°27.7'	S 21°54.9'
20	86°23.6'	N 25°03.2'	314°45.2'	S 15°38.8'	260°28.3'	S 22°17.7'	234°29.2'	S 21°54.9'
21	101°22.8'	N 25°03.2'	329°47.9'	S 15°38.7'	275°30.9'	S 22°17.7'	249°30.7'	S 21°54.8'
22	116°22.0'	N 25°03.2'	344°50.7'	S 15°38.6'	290°33.5'	S 22°17.7'	264°32.2'	S 21°54.7'
23	131°21.1'	N 25°03.2'	359°53.5'	S 15°38.5'	305°36.1'	S 22°17.8'	279°33.7'	S 21°54.7'

Tue May 22, 2018 UTC

UTC	Venus -3.9		Jupiter -2.4		Saturn +0.2		Mars -1.0	
	v = -0.8' d = 0.0'		v = 2.8' d = 0.1'		v = 2.6' d = 0.0'		v = 1.5' d = 0.1'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	146°20.3'	N 25°03.2'	14°56.2'	S 15°38.4'	320°38.7'	S 22°17.8'	294°35.2'	S 21°54.6'
1	161°19.5'	N 25°03.2'	29°59.0'	S 15°38.4'	335°41.3'	S 22°17.8'	309°36.7'	S 21°54.5'
2	176°18.6'	N 25°03.2'	45°01.8'	S 15°38.3'	350°43.9'	S 22°17.8'	324°38.2'	S 21°54.5'
3	191°17.8'	N 25°03.2'	60°04.5'	S 15°38.2'	5°46.5'	S 22°17.8'	339°39.7'	S 21°54.4'
4	206°17.0'	N 25°03.2'	75°07.3'	S 15°38.1'	20°49.1'	S 22°17.8'	354°41.2'	S 21°54.3'
5	221°16.2'	N 25°03.2'	90°10.0'	S 15°38.0'	35°51.7'	S 22°17.8'	9°42.7'	S 21°54.2'
6	236°15.3'	N 25°03.2'	105°12.8'	S 15°38.0'	50°54.3'	S 22°17.8'	24°44.2'	S 21°54.2'
7	251°14.5'	N 25°03.2'	120°15.6'	S 15°37.9'	65°56.9'	S 22°17.8'	39°45.7'	S 21°54.1'
8	266°13.7'	N 25°03.2'	135°18.3'	S 15°37.8'	80°59.5'	S 22°17.8'	54°47.2'	S 21°54.0'
9	281°12.8'	N 25°03.2'	150°21.1'	S 15°37.7'	96°02.1'	S 22°17.8'	69°48.7'	S 21°54.0'
10	296°12.0'	N 25°03.2'	165°23.9'	S 15°37.6'	111°04.7'	S 22°17.8'	84°50.2'	S 21°53.9'
11	311°11.2'	N 25°03.2'	180°26.6'	S 15°37.6'	126°07.3'	S 22°17.9'	99°51.7'	S 21°53.8'
12	326°10.3'	N 25°03.2'	195°29.4'	S 15°37.5'	141°10.0'	S 22°17.9'	114°53.2'	S 21°53.8'
13	341°09.5'	N 25°03.2'	210°32.2'	S 15°37.4'	156°12.6'	S 22°17.9'	129°54.7'	S 21°53.7'
14	356°08.7'	N 25°03.2'	225°34.9'	S 15°37.3'	171°15.2'	S 22°17.9'	144°56.3'	S 21°53.6'
15	11°07.9'	N 25°03.2'	240°37.7'	S 15°37.2'	186°17.8'	S 22°17.9'	159°57.8'	S 21°53.6'
16	26°07.0'	N 25°03.2'	255°40.5'	S 15°37.2'	201°20.4'	S 22°17.9'	174°59.3'	S 21°53.5'
17	41°06.2'	N 25°03.2'	270°43.2'	S 15°37.1'	216°23.0'	S 22°17.9'	190°00.8'	S 21°53.4'
18	56°05.4'	N 25°03.2'	285°46.0'	S 15°37.0'	231°25.6'	S 22°17.9'	205°02.3'	S 21°53.4'
19	71°04.5'	N 25°03.1'	300°48.7'	S 15°36.9'	246°28.2'	S 22°17.9'	220°03.8'	S 21°53.3'
20	86°03.7'	N 25°03.1'	315°51.5'	S 15°36.8'	261°30.8'	S 22°17.9'	235°05.3'	S 21°53.2'
21	101°02.9'	N 25°03.1'	330°54.3'	S 15°36.8'	276°33.4'	S 22°17.9'	250°06.8'	S 21°53.2'
22	116°02.1'	N 25°03.1'	345°57.0'	S 15°36.7'	291°36.0'	S 22°18.0'	265°08.4'	S 21°53.1'
23	131°01.2'	N 25°03.1'	0°59.8'	S 15°36.6'	306°38.6'	S 22°18.0'	280°09.9'	S 21°53.0'

Wed May 23, 2018 UTC

UTC	Venus -3.9		Jupiter -2.3		Saturn +0.2		Mars -1.0	
	v = -0.8' d = 0.0'		v = 2.8' d = 0.1'		v = 2.6' d = 0.0'		v = 1.5' d = 0.1'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	146°00.4'	N 25°03.0'	16°02.6'	S 15°36.5'	321°41.2'	S 22°18.0'	295°11.4'	S 21°53.0'
1	160°59.6'	N 25°03.0'	31°05.3'	S 15°36.5'	336°43.8'	S 22°18.0'	310°12.9'	S 21°52.9'
2	175°58.7'	N 25°03.0'	46°08.1'	S 15°36.4'	351°46.4'	S 22°18.0'	325°14.4'	S 21°52.8'
3	190°57.9'	N 25°03.0'	61°10.8'	S 15°36.3'	6°49.0'	S 22°18.0'	340°15.9'	S 21°52.8'
4	205°57.1'	N 25°02.9'	76°13.6'	S 15°36.2'	21°51.6'	S 22°18.0'	355°17.5'	S 21°52.7'
5	220°56.3'	N 25°02.9'	91°16.4'	S 15°36.1'	36°54.2'	S 22°18.0'	10°19.0'	S 21°52.6'
6	235°55.4'	N 25°02.9'	106°19.1'	S 15°36.1'	51°56.8'	S 22°18.0'	25°20.5'	S 21°52.6'
7	250°54.6'	N 25°02.9'	121°21.9'	S 15°36.0'	66°59.4'	S 22°18.0'	40°22.0'	S 21°52.5'
8	265°53.8'	N 25°02.8'	136°24.7'	S 15°35.9'	82°02.0'	S 22°18.0'	55°23.5'	S 21°52.4'
9	280°52.9'	N 25°02.8'	151°27.4'	S 15°35.8'	97°04.6'	S 22°18.1'	70°25.1'	S 21°52.4'
10	295°52.1'	N 25°02.8'	166°30.2'	S 15°35.7'	112°07.2'	S 22°18.1'	85°26.6'	S 21°52.3'
11	310°51.3'	N 25°02.7'	181°32.9'	S 15°35.7'	127°09.8'	S 22°18.1'	100°28.1'	S 21°52.2'
12	325°50.5'	N 25°02.7'	196°35.7'	S 15°35.6'	142°12.4'	S 22°18.1'	115°29.6'	S 21°52.2'
13	340°49.6'	N 25°02.7'	211°38.5'	S 15°35.5'	157°15.0'	S 22°18.1'	130°31.2'	S 21°52.1'
14	355°48.8'	N 25°02.6'	226°41.2'	S 15°35.4'	172°17.6'	S 22°18.1'	145°32.7'	S 21°52.0'
15	10°48.0'	N 25°02.6'	241°44.0'	S 15°35.4'	187°20.2'	S 22°18.1'	160°34.2'	S 21°52.0'
16	25°47.2'	N 25°02.5'	256°46.7'	S 15°35.3'	202°22.8'	S 22°18.1'	175°35.8'	S 21°51.9'
17	40°46.3'	N 25°02.5'	271°49.5'	S 15°35.2'	217°25.4'	S 22°18.1'	190°37.3'	S 21°51.8'
18	55°45.5'	N 25°02.4'	286°52.3'	S 15°35.1'	232°28.0'	S 22°18.1'	205°38.8'	S 21°51.8'
19	70°44.7'	N 25°02.4'	301°55.0'	S 15°35.0'	247°30.6'	S 22°18.1'	220°40.3'	S 21°51.7'
20	85°43.9'	N 25°02.4'	316°57.8'	S 15°35.0'	262°33.3'	S 22°18.2'	235°41.9'	S 21°51.7'
21	100°43.0'	N 25°02.3'	332°00.6'	S 15°34.9'	277°35.9'	S 22°18.2'	250°43.4'	S 21°51.6'
22	115°42.2'	N 25°02.3'	347°03.3'	S 15°34.8'	292°38.5'	S 22°18.2'	265°44.9'	S 21°51.5'
23	130°41.4'	N 25°02.2'	2°06.1'	S 15°34.7'	307°41.1'	S 22°18.2'	280°46.5'	S 21°51.5'

Thu May 24, 2018 UTC

UTC	Venus -3.9		Jupiter -2.3		Saturn +0.2		Mars -1.0	
	v = -0.8' d = 0.1'		v = 2.8' d = 0.1'		v = 2.6' d = 0.0'		v = 1.5' d = 0.1'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	145°40.6'	N 25°02.2'	17°08.8'	S 15°34.7'	322°43.7'	S 22°18.2'	295°48.0'	S 21°51.4'
1	160°39.7'	N 25°02.1'	32°11.6'	S 15°34.6'	337°46.3'	S 22°18.2'	310°49.5'	S 21°51.3'
2	175°38.9'	N 25°02.1'	47°14.3'	S 15°34.5'	352°48.9'	S 22°18.2'	325°51.1'	S 21°51.3'
3	190°38.1'	N 25°02.0'	62°17.1'	S 15°34.4'	7°51.5'	S 22°18.2'	340°52.6'	S 21°51.2'
4	205°37.3'	N 25°01.9'	77°19.9'	S 15°34.3'	22°54.1'	S 22°18.2'	355°54.2'	S 21°51.2'
5	220°36.4'	N 25°01.9'	92°22.6'	S 15°34.3'	37°56.7'	S 22°18.2'	10°55.7'	S 21°51.1'
6	235°35.6'	N 25°01.8'	107°25.4'	S 15°34.2'	52°59.3'	S 22°18.2'	25°57.2'	S 21°51.0'
7	250°34.8'	N 25°01.8'	122°28.1'	S 15°34.1'	68°01.9'	S 22°18.3'	40°58.8'	S 21°51.0'
8	265°34.0'	N 25°01.7'	137°30.9'	S 15°34.0'	83°04.5'	S 22°18.3'	56°00.3'	S 21°50.9'
9	280°33.2'	N 25°01.6'	152°33.7'	S 15°34.0'	98°07.1'	S 22°18.3'	71°01.9'	S 21°50.9'
10	295°32.3'	N 25°01.6'	167°36.4'	S 15°33.9'	113°09.7'	S 22°18.3'	86°03.4'	S 21°50.8'
11	310°31.5'	N 25°01.5'	182°39.2'	S 15°33.8'	128°12.3'	S 22°18.3'	101°04.9'	S 21°50.7'
12	325°30.7'	N 25°01.4'	197°41.9'	S 15°33.7'	143°15.0'	S 22°18.3'	116°06.5'	S 21°50.7'
13	340°29.9'	N 25°01.4'	212°44.7'	S 15°33.6'	158°17.6'	S 22°18.3'	131°08.0'	S 21°50.6'
14	355°29.0'	N 25°01.3'	227°47.5'	S 15°33.6'	173°20.2'	S 22°18.3'	146°09.6'	S 21°50.5'
15	10°28.2'	N 25°01.2'	242°50.2'	S 15°33.5'	188°22.8'	S 22°18.3'	161°11.1'	S 21°50.5'
16	25°27.4'	N 25°01.2'	257°53.0'	S 15°33.4'	203°25.4'	S 22°18.3'	176°12.7'	S 21°50.4'
17	40°26.6'	N 25°01.1'	272°55.7'	S 15°33.3'	218°28.0'	S 22°18.3'	191°14.2'	S 21°50.4'
18	55°25.8'	N 25°01.0'	287°58.5'	S 15°33.3'	233°30.6'	S 22°18.4'	206°15.8'	S 21°50.3'
19	70°24.9'	N 25°00.9'	303°01.2'	S 15°33.2'	248°33.2'	S 22°18.4'	221°17.3'	S 21°50.2'
20	85°24.1'	N 25°00.9'	318°04.0'	S 15°33.1'	263°35.8'	S 22°18.4'	236°18.9'	S 21°50.2'
21	100°23.3'	N 25°00.8'	333°06.8'	S 15°33.0'	278°38.4'	S 22°18.4'	251°20.4'	S 21°50.1'
22	115°22.5'	N 25°00.7'	348°09.5'	S 15°32.9'	293°41.0'	S 22°18.4'	266°22.0'	S 21°50.1'
23	130°21.7'	N 25°00.6'	3°12.3'	S 15°32.9'	308°43.6'	S 22°18.4'	281°23.5'	S 21°50.0'

Fri May 25, 2018 UTC

UTC	Venus -3.9		Jupiter -2.3		Saturn +0.2		Mars -1.1	
	v = -0.8' d = 0.1'		v = 2.8' d = 0.1'		v = 2.6' d = 0.0'		v = 1.6' d = 0.1'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	145°20.8'	N 25°00.6'	18°15.0'	S 15°32.8'	323°46.3'	S 22°18.4'	296°25.1'	S 21°50.0'
1	160°20.0'	N 25°00.5'	33°17.8'	S 15°32.7'	338°48.9'	S 22°18.4'	311°26.6'	S 21°49.9'
2	175°19.2'	N 25°00.4'	48°20.5'	S 15°32.6'	353°51.5'	S 22°18.4'	326°28.2'	S 21°49.8'
3	190°18.4'	N 25°00.3'	63°23.3'	S 15°32.6'	8°54.1'	S 22°18.4'	341°29.7'	S 21°49.8'
4	205°17.6'	N 25°00.2'	78°26.0'	S 15°32.5'	23°56.7'	S 22°18.4'	356°31.3'	S 21°49.7'
5	220°16.7'	N 25°00.1'	93°28.8'	S 15°32.4'	38°59.3'	S 22°18.5'	11°32.8'	S 21°49.7'
6	235°15.9'	N 25°00.0'	108°31.6'	S 15°32.3'	54°01.9'	S 22°18.5'	26°34.4'	S 21°49.6'
7	250°15.1'	N 24°60.0'	123°34.3'	S 15°32.3'	69°04.5'	S 22°18.5'	41°36.0'	S 21°49.6'
8	265°14.3'	N 24°59.9'	138°37.1'	S 15°32.2'	84°07.1'	S 22°18.5'	56°37.5'	S 21°49.5'
9	280°13.5'	N 24°59.8'	153°39.8'	S 15°32.1'	99°09.7'	S 22°18.5'	71°39.1'	S 21°49.4'
10	295°12.7'	N 24°59.7'	168°42.6'	S 15°32.0'	114°12.4'	S 22°18.5'	86°40.6'	S 21°49.4'
11	310°11.8'	N 24°59.6'	183°45.3'	S 15°32.0'	129°15.0'	S 22°18.5'	101°42.2'	S 21°49.3'
12	325°11.0'	N 24°59.5'	198°48.1'	S 15°31.9'	144°17.6'	S 22°18.5'	116°43.8'	S 21°49.3'
13	340°10.2'	N 24°59.4'	213°50.8'	S 15°31.8'	159°20.2'	S 22°18.5'	131°45.3'	S 21°49.2'
14	355°09.4'	N 24°59.3'	228°53.6'	S 15°31.7'	174°22.8'	S 22°18.5'	146°46.9'	S 21°49.2'
15	10°08.6'	N 24°59.2'	243°56.4'	S 15°31.6'	189°25.4'	S 22°18.5'	161°48.4'	S 21°49.1'
16	25°07.7'	N 24°59.1'	258°59.1'	S 15°31.6'	204°28.0'	S 22°18.6'	176°50.0'	S 21°49.0'
17	40°06.9'	N 24°59.0'	274°01.9'	S 15°31.5'	219°30.6'	S 22°18.6'	191°51.6'	S 21°49.0'
18	55°06.1'	N 24°58.9'	289°04.6'	S 15°31.4'	234°33.2'	S 22°18.6'	206°53.1'	S 21°48.9'
19	70°05.3'	N 24°58.8'	304°07.4'	S 15°31.3'	249°35.8'	S 22°18.6'	221°54.7'	S 21°48.9'
20	85°04.5'	N 24°58.7'	319°10.1'	S 15°31.3'	264°38.5'	S 22°18.6'	236°56.3'	S 21°48.8'
21	100°03.7'	N 24°58.6'	334°12.9'	S 15°31.2'	279°41.1'	S 22°18.6'	251°57.8'	S 21°48.8'
22	115°02.9'	N 24°58.5'	349°15.6'	S 15°31.1'	294°43.7'	S 22°18.6'	266°59.4'	S 21°48.7'
23	130°02.0'	N 24°58.4'	4°18.4'	S 15°31.0'	309°46.3'	S 22°18.6'	282°01.0'	S 21°48.7'

Sat May 26, 2018 UTC

UTC	Venus -3.9		Jupiter -2.3		Saturn +0.2		Mars -1.1	
	v = -0.8' d = 0.1'		v = 2.8' d = 0.1'		v = 2.6' d = 0.0'		v = 1.6' d = 0.1'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	145°01.2'	N 24°58.2'	19°21.1'	S 15°31.0'	324°48.9'	S 22°18.6'	297°02.6'	S 21°48.6'
1	160°00.4'	N 24°58.1'	34°23.9'	S 15°30.9'	339°51.5'	S 22°18.6'	312°04.1'	S 21°48.6'
2	174°59.6'	N 24°58.0'	49°26.6'	S 15°30.8'	354°54.1'	S 22°18.6'	327°05.7'	S 21°48.5'
3	189°58.8'	N 24°57.9'	64°29.4'	S 15°30.7'	9°56.7'	S 22°18.7'	342°07.3'	S 21°48.4'
4	204°58.0'	N 24°57.8'	79°32.1'	S 15°30.7'	24°59.4'	S 22°18.7'	357°08.9'	S 21°48.4'
5	219°57.2'	N 24°57.7'	94°34.9'	S 15°30.6'	40°02.0'	S 22°18.7'	12°10.4'	S 21°48.3'
6	234°56.3'	N 24°57.6'	109°37.6'	S 15°30.5'	55°04.6'	S 22°18.7'	27°12.0'	S 21°48.3'
7	249°55.5'	N 24°57.4'	124°40.4'	S 15°30.4'	70°07.2'	S 22°18.7'	42°13.6'	S 21°48.2'
8	264°54.7'	N 24°57.3'	139°43.2'	S 15°30.4'	85°09.8'	S 22°18.7'	57°15.2'	S 21°48.2'
9	279°53.9'	N 24°57.2'	154°45.9'	S 15°30.3'	100°12.4'	S 22°18.7'	72°16.7'	S 21°48.1'
10	294°53.1'	N 24°57.1'	169°48.7'	S 15°30.2'	115°15.0'	S 22°18.7'	87°18.3'	S 21°48.1'
11	309°52.3'	N 24°57.0'	184°51.4'	S 15°30.1'	130°17.6'	S 22°18.7'	102°19.9'	S 21°48.0'
12	324°51.5'	N 24°56.8'	199°54.2'	S 15°30.1'	145°20.3'	S 22°18.7'	117°21.5'	S 21°48.0'
13	339°50.7'	N 24°56.7'	214°56.9'	S 15°30.0'	160°22.9'	S 22°18.8'	132°23.1'	S 21°47.9'
14	354°49.8'	N 24°56.6'	229°59.7'	S 15°29.9'	175°25.5'	S 22°18.8'	147°24.6'	S 21°47.9'
15	9°49.0'	N 24°56.4'	245°02.4'	S 15°29.8'	190°28.1'	S 22°18.8'	162°26.2'	S 21°47.8'
16	24°48.2'	N 24°56.3'	260°05.2'	S 15°29.8'	205°30.7'	S 22°18.8'	177°27.8'	S 21°47.8'
17	39°47.4'	N 24°56.2'	275°07.9'	S 15°29.7'	220°33.3'	S 22°18.8'	192°29.4'	S 21°47.7'
18	54°46.6'	N 24°56.1'	290°10.7'	S 15°29.6'	235°35.9'	S 22°18.8'	207°31.0'	S 21°47.7'
19	69°45.8'	N 24°55.9'	305°13.4'	S 15°29.5'	250°38.6'	S 22°18.8'	222°32.6'	S 21°47.6'
20	84°45.0'	N 24°55.8'	320°16.2'	S 15°29.5'	265°41.2'	S 22°18.8'	237°34.1'	S 21°47.6'
21	99°44.2'	N 24°55.6'	335°18.9'	S 15°29.4'	280°43.8'	S 22°18.8'	252°35.7'	S 21°47.5'
22	114°43.4'	N 24°55.5'	350°21.7'	S 15°29.3'	295°46.4'	S 22°18.8'	267°37.3'	S 21°47.5'
23	129°42.6'	N 24°55.4'	5°24.4'	S 15°29.2'	310°49.0'	S 22°18.8'	282°38.9'	S 21°47.4'

Sun May 27, 2018 UTC

UTC	Venus -3.9		Jupiter -2.3		Saturn +0.2		Mars -1.1	
	v = -0.8' d = 0.2'		v = 2.7' d = 0.1'		v = 2.6' d = 0.0'		v = 1.6' d = 0.0'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	144°41.7'	N 24°55.2'	20°27.2'	S 15°29.2'	325°51.6'	S 22°18.9'	297°40.5'	S 21°47.4'
1	159°40.9'	N 24°55.1'	35°29.9'	S 15°29.1'	340°54.2'	S 22°18.9'	312°42.1'	S 21°47.3'
2	174°40.1'	N 24°55.0'	50°32.7'	S 15°29.0'	355°56.9'	S 22°18.9'	327°43.7'	S 21°47.3'
3	189°39.3'	N 24°54.8'	65°35.4'	S 15°28.9'	10°59.5'	S 22°18.9'	342°45.3'	S 21°47.2'
4	204°38.5'	N 24°54.7'	80°38.2'	S 15°28.9'	26°02.1'	S 22°18.9'	357°46.9'	S 21°47.2'
5	219°37.7'	N 24°54.5'	95°40.9'	S 15°28.8'	41°04.7'	S 22°18.9'	12°48.5'	S 21°47.1'
6	234°36.9'	N 24°54.4'	110°43.7'	S 15°28.7'	56°07.3'	S 22°18.9'	27°50.1'	S 21°47.1'
7	249°36.1'	N 24°54.2'	125°46.4'	S 15°28.6'	71°09.9'	S 22°18.9'	42°51.7'	S 21°47.0'
8	264°35.3'	N 24°54.1'	140°49.1'	S 15°28.6'	86°12.5'	S 22°18.9'	57°53.3'	S 21°47.0'
9	279°34.5'	N 24°53.9'	155°51.9'	S 15°28.5'	101°15.2'	S 22°18.9'	72°54.9'	S 21°46.9'
10	294°33.7'	N 24°53.8'	170°54.6'	S 15°28.4'	116°17.8'	S 22°19.0'	87°56.5'	S 21°46.9'
11	309°32.9'	N 24°53.6'	185°57.4'	S 15°28.3'	131°20.4'	S 22°19.0'	102°58.1'	S 21°46.8'
12	324°32.1'	N 24°53.5'	201°00.1'	S 15°28.3'	146°23.0'	S 22°19.0'	117°59.7'	S 21°46.8'
13	339°31.3'	N 24°53.3'	216°02.9'	S 15°28.2'	161°25.6'	S 22°19.0'	133°01.3'	S 21°46.7'
14	354°30.4'	N 24°53.1'	231°05.6'	S 15°28.1'	176°28.2'	S 22°19.0'	148°02.9'	S 21°46.7'
15	9°29.6'	N 24°53.0'	246°08.4'	S 15°28.0'	191°30.9'	S 22°19.0'	163°04.5'	S 21°46.6'
16	24°28.8'	N 24°52.8'	261°11.1'	S 15°28.0'	206°33.5'	S 22°19.0'	178°06.1'	S 21°46.6'
17	39°28.0'	N 24°52.7'	276°13.9'	S 15°27.9'	221°36.1'	S 22°19.0'	193°07.7'	S 21°46.6'
18	54°27.2'	N 24°52.5'	291°16.6'	S 15°27.8'	236°38.7'	S 22°19.0'	208°09.3'	S 21°46.5'
19	69°26.4'	N 24°52.3'	306°19.4'	S 15°27.7'	251°41.3'	S 22°19.0'	223°10.9'	S 21°46.5'
20	84°25.6'	N 24°52.2'	321°22.1'	S 15°27.7'	266°43.9'	S 22°19.1'	238°12.5'	S 21°46.4'
21	99°24.8'	N 24°52.0'	336°24.9'	S 15°27.6'	281°46.6'	S 22°19.1'	253°14.1'	S 21°46.4'
22	114°24.0'	N 24°51.9'	351°27.6'	S 15°27.5'	296°49.2'	S 22°19.1'	268°15.7'	S 21°46.3'
23	129°23.2'	N 24°51.7'	6°30.3'	S 15°27.4'	311°51.8'	S 22°19.1'	283°17.3'	S 21°46.3'

Mon May 28, 2018 UTC

UTC	Venus -3.9		Jupiter -2.3		Saturn +0.2		Mars -1.1	
	v = -0.8' d = 0.2'		v = 2.7' d = 0.1'		v = 2.6' d = 0.0'		v = 1.6' d = 0.0'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	144°22.4'	N 24°51.5'	21°33.1'	S 15°27.4'	326°54.4'	S 22°19.1'	298°18.9'	S 21°46.2'
1	159°21.6'	N 24°51.3'	36°35.8'	S 15°27.3'	341°57.0'	S 22°19.1'	313°20.5'	S 21°46.2'
2	174°20.8'	N 24°51.2'	51°38.6'	S 15°27.2'	356°59.6'	S 22°19.1'	328°22.1'	S 21°46.1'
3	189°20.0'	N 24°51.0'	66°41.3'	S 15°27.1'	12°02.3'	S 22°19.1'	343°23.7'	S 21°46.1'
4	204°19.2'	N 24°50.8'	81°44.1'	S 15°27.1'	27°04.9'	S 22°19.1'	358°25.4'	S 21°46.1'
5	219°18.4'	N 24°50.7'	96°46.8'	S 15°27.0'	42°07.5'	S 22°19.1'	13°27.0'	S 21°46.0'
6	234°17.6'	N 24°50.5'	111°49.6'	S 15°26.9'	57°10.1'	S 22°19.1'	28°28.6'	S 21°46.0'
7	249°16.8'	N 24°50.3'	126°52.3'	S 15°26.9'	72°12.7'	S 22°19.2'	43°30.2'	S 21°45.9'
8	264°16.0'	N 24°50.1'	141°55.1'	S 15°26.8'	87°15.4'	S 22°19.2'	58°31.8'	S 21°45.9'
9	279°15.2'	N 24°49.9'	156°57.8'	S 15°26.7'	102°18.0'	S 22°19.2'	73°33.4'	S 21°45.8'
10	294°14.4'	N 24°49.8'	172°00.5'	S 15°26.6'	117°20.6'	S 22°19.2'	88°35.1'	S 21°45.8'
11	309°13.6'	N 24°49.6'	187°03.3'	S 15°26.6'	132°23.2'	S 22°19.2'	103°36.7'	S 21°45.8'
12	324°12.8'	N 24°49.4'	202°06.0'	S 15°26.5'	147°25.8'	S 22°19.2'	118°38.3'	S 21°45.7'
13	339°12.0'	N 24°49.2'	217°08.8'	S 15°26.4'	162°28.5'	S 22°19.2'	133°39.9'	S 21°45.7'
14	354°11.2'	N 24°49.0'	232°11.5'	S 15°26.3'	177°31.1'	S 22°19.2'	148°41.5'	S 21°45.6'
15	9°10.4'	N 24°48.8'	247°14.3'	S 15°26.3'	192°33.7'	S 22°19.2'	163°43.2'	S 21°45.6'
16	24°09.6'	N 24°48.6'	262°17.0'	S 15°26.2'	207°36.3'	S 22°19.2'	178°44.8'	S 21°45.5'
17	39°08.8'	N 24°48.5'	277°19.7'	S 15°26.1'	222°38.9'	S 22°19.3'	193°46.4'	S 21°45.5'
18	54°08.0'	N 24°48.3'	292°22.5'	S 15°26.0'	237°41.5'	S 22°19.3'	208°48.0'	S 21°45.5'
19	69°07.2'	N 24°48.1'	307°25.2'	S 15°26.0'	252°44.2'	S 22°19.3'	223°49.7'	S 21°45.4'
20	84°06.4'	N 24°47.9'	322°28.0'	S 15°25.9'	267°46.8'	S 22°19.3'	238°51.3'	S 21°45.4'
21	99°05.6'	N 24°47.7'	337°30.7'	S 15°25.8'	282°49.4'	S 22°19.3'	253°52.9'	S 21°45.3'
22	114°04.8'	N 24°47.5'	352°33.5'	S 15°25.8'	297°52.0'	S 22°19.3'	268°54.5'	S 21°45.3'
23	129°04.0'	N 24°47.3'	7°36.2'	S 15°25.7'	312°54.6'	S 22°19.3'	283°56.2'	S 21°45.3'

Tue May 29, 2018 UTC

UTC	Venus -3.9		Jupiter -2.3		Saturn +0.2		Mars -1.2	
	v = -0.8' d = 0.2'		v = 2.7' d = 0.1'		v = 2.6' d = 0.0'		v = 1.6' d = 0.0'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	144°03.2'	N 24°47.1'	22°38.9'	S 15°25.6'	327°57.3'	S 22°19.3'	298°57.8'	S 21°45.2'
1	159°02.4'	N 24°46.9'	37°41.7'	S 15°25.5'	342°59.9'	S 22°19.3'	313°59.4'	S 21°45.2'
2	174°01.6'	N 24°46.7'	52°44.4'	S 15°25.5'	358°02.5'	S 22°19.3'	329°01.1'	S 21°45.1'
3	189°00.9'	N 24°46.5'	67°47.2'	S 15°25.4'	13°05.1'	S 22°19.4'	344°02.7'	S 21°45.1'
4	204°00.1'	N 24°46.3'	82°49.9'	S 15°25.3'	28°07.8'	S 22°19.4'	359°04.3'	S 21°45.1'
5	218°59.3'	N 24°46.1'	97°52.6'	S 15°25.2'	43°10.4'	S 22°19.4'	14°06.0'	S 21°45.0'
6	233°58.5'	N 24°45.9'	112°55.4'	S 15°25.2'	58°13.0'	S 22°19.4'	29°07.6'	S 21°45.0'
7	248°57.7'	N 24°45.7'	127°58.1'	S 15°25.1'	73°15.6'	S 22°19.4'	44°09.2'	S 21°45.0'
8	263°56.9'	N 24°45.5'	143°00.9'	S 15°25.0'	88°18.2'	S 22°19.4'	59°10.9'	S 21°44.9'
9	278°56.1'	N 24°45.3'	158°03.6'	S 15°25.0'	103°20.9'	S 22°19.4'	74°12.5'	S 21°44.9'
10	293°55.3'	N 24°45.0'	173°06.3'	S 15°24.9'	118°23.5'	S 22°19.4'	89°14.1'	S 21°44.8'
11	308°54.5'	N 24°44.8'	188°09.1'	S 15°24.8'	133°26.1'	S 22°19.4'	104°15.8'	S 21°44.8'
12	323°53.7'	N 24°44.6'	203°11.8'	S 15°24.7'	148°28.7'	S 22°19.4'	119°17.4'	S 21°44.8'
13	338°52.9'	N 24°44.4'	218°14.6'	S 15°24.7'	163°31.3'	S 22°19.5'	134°19.1'	S 21°44.7'
14	353°52.1'	N 24°44.2'	233°17.3'	S 15°24.6'	178°34.0'	S 22°19.5'	149°20.7'	S 21°44.7'
15	8°51.3'	N 24°44.0'	248°20.0'	S 15°24.5'	193°36.6'	S 22°19.5'	164°22.3'	S 21°44.7'
16	23°50.6'	N 24°43.8'	263°22.8'	S 15°24.5'	208°39.2'	S 22°19.5'	179°24.0'	S 21°44.6'
17	38°49.8'	N 24°43.5'	278°25.5'	S 15°24.4'	223°41.8'	S 22°19.5'	194°25.6'	S 21°44.6'
18	53°49.0'	N 24°43.3'	293°28.3'	S 15°24.3'	238°44.5'	S 22°19.5'	209°27.3'	S 21°44.5'
19	68°48.2'	N 24°43.1'	308°31.0'	S 15°24.2'	253°47.1'	S 22°19.5'	224°28.9'	S 21°44.5'
20	83°47.4'	N 24°42.9'	323°33.7'	S 15°24.2'	268°49.7'	S 22°19.5'	239°30.6'	S 21°44.5'
21	98°46.6'	N 24°42.7'	338°36.5'	S 15°24.1'	283°52.3'	S 22°19.5'	254°32.2'	S 21°44.4'
22	113°45.8'	N 24°42.4'	353°39.2'	S 15°24.0'	298°54.9'	S 22°19.5'	269°33.9'	S 21°44.4'
23	128°45.0'	N 24°42.2'	8°41.9'	S 15°24.0'	313°57.6'	S 22°19.6'	284°35.5'	S 21°44.4'

Wed May 30, 2018 UTC

UTC	Venus -3.9		Jupiter -2.3		Saturn +0.2		Mars -1.2	
	v = -0.8' d = 0.2'		v = 2.7' d = 0.1'		v = 2.6' d = 0.0'		v = 1.7' d = 0.0'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	143°44.2'	N 24°42.0'	23°44.7'	S 15°23.9'	329°00.2'	S 22°19.6'	299°37.2'	S 21°44.3'
1	158°43.5'	N 24°41.8'	38°47.4'	S 15°23.8'	344°02.8'	S 22°19.6'	314°38.8'	S 21°44.3'
2	173°42.7'	N 24°41.5'	53°50.2'	S 15°23.7'	359°05.4'	S 22°19.6'	329°40.5'	S 21°44.3'
3	188°41.9'	N 24°41.3'	68°52.9'	S 15°23.7'	14°08.1'	S 22°19.6'	344°42.1'	S 21°44.2'
4	203°41.1'	N 24°41.1'	83°55.6'	S 15°23.6'	29°10.7'	S 22°19.6'	359°43.8'	S 21°44.2'
5	218°40.3'	N 24°40.8'	98°58.4'	S 15°23.5'	44°13.3'	S 22°19.6'	14°45.4'	S 21°44.2'
6	233°39.5'	N 24°40.6'	114°01.1'	S 15°23.5'	59°15.9'	S 22°19.6'	29°47.1'	S 21°44.1'
7	248°38.7'	N 24°40.4'	129°03.8'	S 15°23.4'	74°18.6'	S 22°19.6'	44°48.7'	S 21°44.1'
8	263°38.0'	N 24°40.1'	144°06.6'	S 15°23.3'	89°21.2'	S 22°19.6'	59°50.4'	S 21°44.1'
9	278°37.2'	N 24°39.9'	159°09.3'	S 15°23.2'	104°23.8'	S 22°19.7'	74°52.0'	S 21°44.0'
10	293°36.4'	N 24°39.6'	174°12.0'	S 15°23.2'	119°26.4'	S 22°19.7'	89°53.7'	S 21°44.0'
11	308°35.6'	N 24°39.4'	189°14.8'	S 15°23.1'	134°29.0'	S 22°19.7'	104°55.4'	S 21°44.0'
12	323°34.8'	N 24°39.2'	204°17.5'	S 15°23.0'	149°31.7'	S 22°19.7'	119°57.0'	S 21°43.9'
13	338°34.0'	N 24°38.9'	219°20.3'	S 15°23.0'	164°34.3'	S 22°19.7'	134°58.7'	S 21°43.9'
14	353°33.3'	N 24°38.7'	234°23.0'	S 15°22.9'	179°36.9'	S 22°19.7'	150°00.3'	S 21°43.9'
15	8°32.5'	N 24°38.4'	249°25.7'	S 15°22.8'	194°39.5'	S 22°19.7'	165°02.0'	S 21°43.8'
16	23°31.7'	N 24°38.2'	264°28.5'	S 15°22.7'	209°42.2'	S 22°19.7'	180°03.7'	S 21°43.8'
17	38°30.9'	N 24°37.9'	279°31.2'	S 15°22.7'	224°44.8'	S 22°19.7'	195°05.3'	S 21°43.8'
18	53°30.1'	N 24°37.7'	294°33.9'	S 15°22.6'	239°47.4'	S 22°19.7'	210°07.0'	S 21°43.8'
19	68°29.3'	N 24°37.4'	309°36.7'	S 15°22.5'	254°50.0'	S 22°19.8'	225°08.7'	S 21°43.7'
20	83°28.6'	N 24°37.2'	324°39.4'	S 15°22.5'	269°52.7'	S 22°19.8'	240°10.3'	S 21°43.7'
21	98°27.8'	N 24°36.9'	339°42.1'	S 15°22.4'	284°55.3'	S 22°19.8'	255°12.0'	S 21°43.7'
22	113°27.0'	N 24°36.7'	354°44.9'	S 15°22.3'	299°57.9'	S 22°19.8'	270°13.7'	S 21°43.6'
23	128°26.2'	N 24°36.4'	9°47.6'	S 15°22.3'	315°00.5'	S 22°19.8'	285°15.3'	S 21°43.6'

Thu May 31, 2018 UTC

UTC	Venus -3.9 v = -0.8' d = 0.3'		Jupiter -2.3 v = 2.7' d = 0.1'		Saturn +0.2 v = 2.6' d = 0.0'		Mars -1.2 v = 1.7' d = 0.0'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	143°25.4'	N 24°36.2'	24°50.3'	S 15°22.2'	330°03.2'	S 22°19.8'	300°17.0'	S 21°43.6'
1	158°24.7'	N 24°35.9'	39°53.1'	S 15°22.1'	345°05.8'	S 22°19.8'	315°18.7'	S 21°43.6'
2	173°23.9'	N 24°35.7'	54°55.8'	S 15°22.0'	0°08.4'	S 22°19.8'	330°20.3'	S 21°43.5'
3	188°23.1'	N 24°35.4'	69°58.5'	S 15°22.0'	15°11.1'	S 22°19.8'	345°22.0'	S 21°43.5'
4	203°22.3'	N 24°35.1'	85°01.3'	S 15°21.9'	30°13.7'	S 22°19.8'	0°23.7'	S 21°43.5'
5	218°21.6'	N 24°34.9'	100°04.0'	S 15°21.8'	45°16.3'	S 22°19.9'	15°25.4'	S 21°43.4'
6	233°20.8'	N 24°34.6'	115°06.7'	S 15°21.8'	60°18.9'	S 22°19.9'	30°27.0'	S 21°43.4'
7	248°20.0'	N 24°34.4'	130°09.5'	S 15°21.7'	75°21.6'	S 22°19.9'	45°28.7'	S 21°43.4'
8	263°19.2'	N 24°34.1'	145°12.2'	S 15°21.6'	90°24.2'	S 22°19.9'	60°30.4'	S 21°43.4'
9	278°18.4'	N 24°33.8'	160°14.9'	S 15°21.6'	105°26.8'	S 22°19.9'	75°32.1'	S 21°43.3'
10	293°17.7'	N 24°33.6'	175°17.6'	S 15°21.5'	120°29.4'	S 22°19.9'	90°33.8'	S 21°43.3'
11	308°16.9'	N 24°33.3'	190°20.4'	S 15°21.4'	135°32.1'	S 22°19.9'	105°35.4'	S 21°43.3'
12	323°16.1'	N 24°33.0'	205°23.1'	S 15°21.3'	150°34.7'	S 22°19.9'	120°37.1'	S 21°43.3'
13	338°15.3'	N 24°32.7'	220°25.8'	S 15°21.3'	165°37.3'	S 22°19.9'	135°38.8'	S 21°43.2'
14	353°14.6'	N 24°32.5'	235°28.6'	S 15°21.2'	180°39.9'	S 22°19.9'	150°40.5'	S 21°43.2'
15	8°13.8'	N 24°32.2'	250°31.3'	S 15°21.1'	195°42.6'	S 22°20.0'	165°42.2'	S 21°43.2'
16	23°13.0'	N 24°31.9'	265°34.0'	S 15°21.1'	210°45.2'	S 22°20.0'	180°43.9'	S 21°43.1'
17	38°12.3'	N 24°31.6'	280°36.8'	S 15°21.0'	225°47.8'	S 22°20.0'	195°45.5'	S 21°43.1'
18	53°11.5'	N 24°31.4'	295°39.5'	S 15°20.9'	240°50.5'	S 22°20.0'	210°47.2'	S 21°43.1'
19	68°10.7'	N 24°31.1'	310°42.2'	S 15°20.9'	255°53.1'	S 22°20.0'	225°48.9'	S 21°43.1'
20	83°09.9'	N 24°30.8'	325°45.0'	S 15°20.8'	270°55.7'	S 22°20.0'	240°50.6'	S 21°43.1'
21	98°09.2'	N 24°30.5'	340°47.7'	S 15°20.7'	285°58.3'	S 22°20.0'	255°52.3'	S 21°43.0'
22	113°08.4'	N 24°30.3'	355°50.4'	S 15°20.7'	301°01.0'	S 22°20.0'	270°54.0'	S 21°43.0'
23	128°07.6'	N 24°30.0'	10°53.1'	S 15°20.6'	316°03.6'	S 22°20.0'	285°55.7'	S 21°43.0'