

Fri Mar 1, 2019 UTC

UTC	Venus -4.0 v = -0.6' d = 0.5'		Jupiter -1.9 v = 2.2' d = 0.0'		Saturn +0.6 v = 2.2' d = 0.0'		Mars +1.2 v = 0.8' d = 0.6'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	217°22.4'	S 19°30.1'	257°19.0'	S 22°33.8'	229°20.9'	S 21°50.0'	121°19.4'	N 15°22.3'
1	232°21.8'	S 19°29.7'	272°21.1'	S 22°33.8'	244°23.1'	S 21°50.0'	136°20.2'	N 15°22.9'
2	247°21.1'	S 19°29.2'	287°23.3'	S 22°33.9'	259°25.4'	S 21°50.0'	151°21.0'	N 15°23.4'
3	262°20.5'	S 19°28.8'	302°25.4'	S 22°33.9'	274°27.6'	S 21°49.9'	166°21.9'	N 15°24.0'
4	277°19.9'	S 19°28.3'	317°27.6'	S 22°33.9'	289°29.8'	S 21°49.9'	181°22.7'	N 15°24.5'
5	292°19.2'	S 19°27.9'	332°29.7'	S 22°33.9'	304°32.1'	S 21°49.9'	196°23.5'	N 15°25.1'
6	307°18.6'	S 19°27.4'	347°31.9'	S 22°33.9'	319°34.3'	S 21°49.8'	211°24.3'	N 15°25.6'
7	322°17.9'	S 19°26.9'	2°34.0'	S 22°33.9'	334°36.5'	S 21°49.8'	226°25.1'	N 15°26.2'
8	337°17.3'	S 19°26.5'	17°36.2'	S 22°34.0'	349°38.8'	S 21°49.8'	241°26.0'	N 15°26.8'
9	352°16.7'	S 19°26.0'	32°38.3'	S 22°34.0'	4°41.0'	S 21°49.8'	256°26.8'	N 15°27.3'
10	7°16.0'	S 19°25.6'	47°40.5'	S 22°34.0'	19°43.2'	S 21°49.7'	271°27.6'	N 15°27.9'
11	22°15.4'	S 19°25.1'	62°42.6'	S 22°34.0'	34°45.5'	S 21°49.7'	286°28.4'	N 15°28.4'
12	37°14.7'	S 19°24.7'	77°44.8'	S 22°34.0'	49°47.7'	S 21°49.7'	301°29.2'	N 15°29.0'
13	52°14.1'	S 19°24.2'	92°46.9'	S 22°34.0'	64°49.9'	S 21°49.7'	316°30.1'	N 15°29.5'
14	67°13.5'	S 19°23.7'	107°49.1'	S 22°34.1'	79°52.2'	S 21°49.6'	331°30.9'	N 15°30.1'
15	82°12.8'	S 19°23.3'	122°51.2'	S 22°34.1'	94°54.4'	S 21°49.6'	346°31.7'	N 15°30.6'
16	97°12.2'	S 19°22.8'	137°53.4'	S 22°34.1'	109°56.6'	S 21°49.6'	1°32.5'	N 15°31.2'
17	112°11.6'	S 19°22.3'	152°55.5'	S 22°34.1'	124°58.9'	S 21°49.6'	16°33.3'	N 15°31.7'
18	127°10.9'	S 19°21.9'	167°57.7'	S 22°34.1'	140°01.1'	S 21°49.5'	31°34.1'	N 15°32.3'
19	142°10.3'	S 19°21.4'	182°59.9'	S 22°34.1'	155°03.3'	S 21°49.5'	46°35.0'	N 15°32.9'
20	157°09.6'	S 19°20.9'	198°02.0'	S 22°34.2'	170°05.6'	S 21°49.5'	61°35.8'	N 15°33.4'
21	172°09.0'	S 19°20.5'	213°04.2'	S 22°34.2'	185°07.8'	S 21°49.5'	76°36.6'	N 15°34.0'
22	187°08.4'	S 19°20.0'	228°06.3'	S 22°34.2'	200°10.0'	S 21°49.4'	91°37.4'	N 15°34.5'
23	202°07.7'	S 19°19.5'	243°08.5'	S 22°34.2'	215°12.3'	S 21°49.4'	106°38.2'	N 15°35.1'

Sat Mar 2, 2019 UTC

UTC	Venus -4.0 v = -0.6' d = 0.5'		Jupiter -1.9 v = 2.2' d = 0.0'		Saturn +0.6 v = 2.2' d = 0.0'		Mars +1.2 v = 0.8' d = 0.5'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	217°07.1'	S 19°19.1'	258°10.6'	S 22°34.2'	230°14.5'	S 21°49.4'	121°39.0'	N 15°35.6'
1	232°06.5'	S 19°18.6'	273°12.8'	S 22°34.2'	245°16.7'	S 21°49.3'	136°39.9'	N 15°36.2'
2	247°05.8'	S 19°18.1'	288°14.9'	S 22°34.3'	260°19.0'	S 21°49.3'	151°40.7'	N 15°36.7'
3	262°05.2'	S 19°17.6'	303°17.1'	S 22°34.3'	275°21.2'	S 21°49.3'	166°41.5'	N 15°37.3'
4	277°04.5'	S 19°17.2'	318°19.3'	S 22°34.3'	290°23.5'	S 21°49.3'	181°42.3'	N 15°37.8'
5	292°03.9'	S 19°16.7'	333°21.4'	S 22°34.3'	305°25.7'	S 21°49.2'	196°43.1'	N 15°38.4'
6	307°03.3'	S 19°16.2'	348°23.6'	S 22°34.3'	320°27.9'	S 21°49.2'	211°43.9'	N 15°38.9'
7	322°02.6'	S 19°15.7'	3°25.7'	S 22°34.3'	335°30.2'	S 21°49.2'	226°44.8'	N 15°39.5'
8	337°02.0'	S 19°15.2'	18°27.9'	S 22°34.4'	350°32.4'	S 21°49.2'	241°45.6'	N 15°40.0'
9	352°01.4'	S 19°14.8'	33°30.0'	S 22°34.4'	5°34.6'	S 21°49.1'	256°46.4'	N 15°40.6'
10	7°00.7'	S 19°14.3'	48°32.2'	S 22°34.4'	20°36.9'	S 21°49.1'	271°47.2'	N 15°41.1'
11	22°00.1'	S 19°13.8'	63°34.4'	S 22°34.4'	35°39.1'	S 21°49.1'	286°48.0'	N 15°41.7'
12	36°59.5'	S 19°13.3'	78°36.5'	S 22°34.4'	50°41.3'	S 21°49.1'	301°48.8'	N 15°42.2'
13	51°58.8'	S 19°12.8'	93°38.7'	S 22°34.4'	65°43.6'	S 21°49.0'	316°49.7'	N 15°42.8'
14	66°58.2'	S 19°12.3'	108°40.8'	S 22°34.5'	80°45.8'	S 21°49.0'	331°50.5'	N 15°43.3'
15	81°57.6'	S 19°11.9'	123°43.0'	S 22°34.5'	95°48.1'	S 21°49.0'	346°51.3'	N 15°43.9'
16	96°56.9'	S 19°11.4'	138°45.2'	S 22°34.5'	110°50.3'	S 21°49.0'	1°52.1'	N 15°44.4'
17	111°56.3'	S 19°10.9'	153°47.3'	S 22°34.5'	125°52.5'	S 21°48.9'	16°52.9'	N 15°45.0'
18	126°55.7'	S 19°10.4'	168°49.5'	S 22°34.5'	140°54.8'	S 21°48.9'	31°53.7'	N 15°45.5'
19	141°55.0'	S 19°09.9'	183°51.6'	S 22°34.5'	155°57.0'	S 21°48.9'	46°54.5'	N 15°46.1'
20	156°54.4'	S 19°09.4'	198°53.8'	S 22°34.6'	170°59.2'	S 21°48.8'	61°55.4'	N 15°46.6'
21	171°53.8'	S 19°08.9'	213°56.0'	S 22°34.6'	186°01.5'	S 21°48.8'	76°56.2'	N 15°47.2'
22	186°53.1'	S 19°08.4'	228°58.1'	S 22°34.6'	201°03.7'	S 21°48.8'	91°57.0'	N 15°47.7'
23	201°52.5'	S 19°07.9'	244°00.3'	S 22°34.6'	216°06.0'	S 21°48.8'	106°57.8'	N 15°48.3'

Sun Mar 3, 2019 UTC

UTC	Venus -4.0		Jupiter -1.9		Saturn +0.6		Mars +1.2	
	v = -0.6' d = 0.5'		v = 2.2' d = 0.0'		v = 2.2' d = 0.0'		v = 0.8' d = 0.5'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	216°51.9'	S 19°07.4'	259°02.4'	S 22°34.6'	231°08.2'	S 21°48.7'	121°58.6'	N 15°48.8'
1	231°51.2'	S 19°06.9'	274°04.6'	S 22°34.6'	246°10.4'	S 21°48.7'	136°59.4'	N 15°49.4'
2	246°50.6'	S 19°06.4'	289°06.8'	S 22°34.6'	261°12.7'	S 21°48.7'	152°00.2'	N 15°49.9'
3	261°50.0'	S 19°05.9'	304°08.9'	S 22°34.7'	276°14.9'	S 21°48.7'	167°01.1'	N 15°50.5'
4	276°49.3'	S 19°05.5'	319°11.1'	S 22°34.7'	291°17.1'	S 21°48.6'	182°01.9'	N 15°51.0'
5	291°48.7'	S 19°05.0'	334°13.3'	S 22°34.7'	306°19.4'	S 21°48.6'	197°02.7'	N 15°51.5'
6	306°48.1'	S 19°04.5'	349°15.4'	S 22°34.7'	321°21.6'	S 21°48.6'	212°03.5'	N 15°52.1'
7	321°47.4'	S 19°03.9'	4°17.6'	S 22°34.7'	336°23.9'	S 21°48.6'	227°04.3'	N 15°52.6'
8	336°46.8'	S 19°03.4'	19°19.7'	S 22°34.7'	351°26.1'	S 21°48.5'	242°05.1'	N 15°53.2'
9	351°46.2'	S 19°02.9'	34°21.9'	S 22°34.8'	6°28.3'	S 21°48.5'	257°05.9'	N 15°53.7'
10	6°45.6'	S 19°02.4'	49°24.1'	S 22°34.8'	21°30.6'	S 21°48.5'	272°06.8'	N 15°54.3'
11	21°44.9'	S 19°01.9'	64°26.2'	S 22°34.8'	36°32.8'	S 21°48.5'	287°07.6'	N 15°54.8'
12	36°44.3'	S 19°01.4'	79°28.4'	S 22°34.8'	51°35.1'	S 21°48.4'	302°08.4'	N 15°55.4'
13	51°43.7'	S 19°00.9'	94°30.6'	S 22°34.8'	66°37.3'	S 21°48.4'	317°09.2'	N 15°55.9'
14	66°43.0'	S 19°00.4'	109°32.7'	S 22°34.8'	81°39.5'	S 21°48.4'	332°10.0'	N 15°56.5'
15	81°42.4'	S 18°59.9'	124°34.9'	S 22°34.9'	96°41.8'	S 21°48.4'	347°10.8'	N 15°57.0'
16	96°41.8'	S 18°59.4'	139°37.1'	S 22°34.9'	111°44.0'	S 21°48.3'	2°11.6'	N 15°57.5'
17	111°41.1'	S 18°58.9'	154°39.2'	S 22°34.9'	126°46.3'	S 21°48.3'	17°12.4'	N 15°58.1'
18	126°40.5'	S 18°58.4'	169°41.4'	S 22°34.9'	141°48.5'	S 21°48.3'	32°13.3'	N 15°58.6'
19	141°39.9'	S 18°57.9'	184°43.6'	S 22°34.9'	156°50.7'	S 21°48.2'	47°14.1'	N 15°59.2'
20	156°39.3'	S 18°57.3'	199°45.7'	S 22°34.9'	171°53.0'	S 21°48.2'	62°14.9'	N 15°59.7'
21	171°38.6'	S 18°56.8'	214°47.9'	S 22°34.9'	186°55.2'	S 21°48.2'	77°15.7'	N 16°00.3'
22	186°38.0'	S 18°56.3'	229°50.1'	S 22°35.0'	201°57.5'	S 21°48.2'	92°16.5'	N 16°00.8'
23	201°37.4'	S 18°55.8'	244°52.2'	S 22°35.0'	216°59.7'	S 21°48.1'	107°17.3'	N 16°01.3'

Mon Mar 4, 2019 UTC

UTC	Venus -4.0		Jupiter -1.9		Saturn +0.6		Mars +1.2	
	v = -0.6' d = 0.5'		v = 2.2' d = 0.0'		v = 2.2' d = 0.0'		v = 0.8' d = 0.5'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	216°36.8'	S 18°55.3'	259°54.4'	S 22°35.0'	232°01.9'	S 21°48.1'	122°18.1'	N 16°01.9'
1	231°36.1'	S 18°54.8'	274°56.6'	S 22°35.0'	247°04.2'	S 21°48.1'	137°18.9'	N 16°02.4'
2	246°35.5'	S 18°54.2'	289°58.8'	S 22°35.0'	262°06.4'	S 21°48.1'	152°19.7'	N 16°03.0'
3	261°34.9'	S 18°53.7'	305°00.9'	S 22°35.0'	277°08.7'	S 21°48.0'	167°20.6'	N 16°03.5'
4	276°34.2'	S 18°53.2'	320°03.1'	S 22°35.1'	292°10.9'	S 21°48.0'	182°21.4'	N 16°04.0'
5	291°33.6'	S 18°52.7'	335°05.3'	S 22°35.1'	307°13.2'	S 21°48.0'	197°22.2'	N 16°04.6'
6	306°33.0'	S 18°52.2'	350°07.4'	S 22°35.1'	322°15.4'	S 21°48.0'	212°23.0'	N 16°05.1'
7	321°32.4'	S 18°51.6'	5°09.6'	S 22°35.1'	337°17.6'	S 21°47.9'	227°23.8'	N 16°05.7'
8	336°31.7'	S 18°51.1'	20°11.8'	S 22°35.1'	352°19.9'	S 21°47.9'	242°24.6'	N 16°06.2'
9	351°31.1'	S 18°50.6'	35°13.9'	S 22°35.1'	7°22.1'	S 21°47.9'	257°25.4'	N 16°06.7'
10	6°30.5'	S 18°50.1'	50°16.1'	S 22°35.1'	22°24.4'	S 21°47.9'	272°26.2'	N 16°07.3'
11	21°29.9'	S 18°49.5'	65°18.3'	S 22°35.2'	37°26.6'	S 21°47.8'	287°27.0'	N 16°07.8'
12	36°29.2'	S 18°49.0'	80°20.5'	S 22°35.2'	52°28.9'	S 21°47.8'	302°27.8'	N 16°08.4'
13	51°28.6'	S 18°48.5'	95°22.6'	S 22°35.2'	67°31.1'	S 21°47.8'	317°28.7'	N 16°08.9'
14	66°28.0'	S 18°47.9'	110°24.8'	S 22°35.2'	82°33.3'	S 21°47.8'	332°29.5'	N 16°09.4'
15	81°27.4'	S 18°47.4'	125°27.0'	S 22°35.2'	97°35.6'	S 21°47.7'	347°30.3'	N 16°10.0'
16	96°26.8'	S 18°46.9'	140°29.1'	S 22°35.2'	112°37.8'	S 21°47.7'	2°31.1'	N 16°10.5'
17	111°26.1'	S 18°46.3'	155°31.3'	S 22°35.2'	127°40.1'	S 21°47.7'	17°31.9'	N 16°11.1'
18	126°25.5'	S 18°45.8'	170°33.5'	S 22°35.3'	142°42.3'	S 21°47.7'	32°32.7'	N 16°11.6'
19	141°24.9'	S 18°45.3'	185°35.7'	S 22°35.3'	157°44.6'	S 21°47.6'	47°33.5'	N 16°12.1'
20	156°24.3'	S 18°44.7'	200°37.8'	S 22°35.3'	172°46.8'	S 21°47.6'	62°34.3'	N 16°12.7'
21	171°23.6'	S 18°44.2'	215°40.0'	S 22°35.3'	187°49.0'	S 21°47.6'	77°35.1'	N 16°13.2'
22	186°23.0'	S 18°43.7'	230°42.2'	S 22°35.3'	202°51.3'	S 21°47.6'	92°35.9'	N 16°13.7'
23	201°22.4'	S 18°43.1'	245°44.4'	S 22°35.3'	217°53.5'	S 21°47.5'	107°36.7'	N 16°14.3'

Tue Mar 5, 2019 UTC

UTC	Venus -4.0		Jupiter -1.9		Saturn +0.6		Mars +1.2	
	v = -0.6' d = 0.6'		v = 2.2' d = 0.0'		v = 2.2' d = 0.0'		v = 0.8' d = 0.5'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	216°21.8'	S 18°42.6'	260°46.5'	S 22°35.3'	232°55.8'	S 21°47.5'	122°37.6'	N 16°14.8'
1	231°21.2'	S 18°42.0'	275°48.7'	S 22°35.4'	247°58.0'	S 21°47.5'	137°38.4'	N 16°15.4'
2	246°20.5'	S 18°41.5'	290°50.9'	S 22°35.4'	263°00.3'	S 21°47.4'	152°39.2'	N 16°15.9'
3	261°19.9'	S 18°41.0'	305°53.1'	S 22°35.4'	278°02.5'	S 21°47.4'	167°40.0'	N 16°16.4'
4	276°19.3'	S 18°40.4'	320°55.3'	S 22°35.4'	293°04.8'	S 21°47.4'	182°40.8'	N 16°17.0'
5	291°18.7'	S 18°39.9'	335°57.4'	S 22°35.4'	308°07.0'	S 21°47.4'	197°41.6'	N 16°17.5'
6	306°18.0'	S 18°39.3'	350°59.6'	S 22°35.4'	323°09.2'	S 21°47.3'	212°42.4'	N 16°18.0'
7	321°17.4'	S 18°38.8'	6°01.8'	S 22°35.5'	338°11.5'	S 21°47.3'	227°43.2'	N 16°18.6'
8	336°16.8'	S 18°38.2'	21°04.0'	S 22°35.5'	353°13.7'	S 21°47.3'	242°44.0'	N 16°19.1'
9	351°16.2'	S 18°37.7'	36°06.1'	S 22°35.5'	8°16.0'	S 21°47.3'	257°44.8'	N 16°19.6'
10	6°15.6'	S 18°37.1'	51°08.3'	S 22°35.5'	23°18.2'	S 21°47.2'	272°45.6'	N 16°20.2'
11	21°15.0'	S 18°36.6'	66°10.5'	S 22°35.5'	38°20.5'	S 21°47.2'	287°46.4'	N 16°20.7'
12	36°14.3'	S 18°36.0'	81°12.7'	S 22°35.5'	53°22.7'	S 21°47.2'	302°47.2'	N 16°21.2'
13	51°13.7'	S 18°35.5'	96°14.9'	S 22°35.5'	68°25.0'	S 21°47.2'	317°48.0'	N 16°21.8'
14	66°13.1'	S 18°34.9'	111°17.0'	S 22°35.6'	83°27.2'	S 21°47.1'	332°48.9'	N 16°22.3'
15	81°12.5'	S 18°34.4'	126°19.2'	S 22°35.6'	98°29.5'	S 21°47.1'	347°49.7'	N 16°22.8'
16	96°11.9'	S 18°33.8'	141°21.4'	S 22°35.6'	113°31.7'	S 21°47.1'	2°50.5'	N 16°23.4'
17	111°11.2'	S 18°33.3'	156°23.6'	S 22°35.6'	128°33.9'	S 21°47.1'	17°51.3'	N 16°23.9'
18	126°10.6'	S 18°32.7'	171°25.8'	S 22°35.6'	143°36.2'	S 21°47.0'	32°52.1'	N 16°24.4'
19	141°10.0'	S 18°32.2'	186°27.9'	S 22°35.6'	158°38.4'	S 21°47.0'	47°52.9'	N 16°25.0'
20	156°09.4'	S 18°31.6'	201°30.1'	S 22°35.6'	173°40.7'	S 21°47.0'	62°53.7'	N 16°25.5'
21	171°08.8'	S 18°31.0'	216°32.3'	S 22°35.7'	188°42.9'	S 21°47.0'	77°54.5'	N 16°26.0'
22	186°08.2'	S 18°30.5'	231°34.5'	S 22°35.7'	203°45.2'	S 21°46.9'	92°55.3'	N 16°26.6'
23	201°07.5'	S 18°29.9'	246°36.7'	S 22°35.7'	218°47.4'	S 21°46.9'	107°56.1'	N 16°27.1'

Wed Mar 6, 2019 UTC

UTC	Venus -3.9		Jupiter -1.9		Saturn +0.6		Mars +1.2	
	v = -0.6' d = 0.6'		v = 2.2' d = 0.0'		v = 2.2' d = 0.0'		v = 0.8' d = 0.5'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	216°06.9'	S 18°29.4'	261°38.8'	S 22°35.7'	233°49.7'	S 21°46.9'	122°56.9'	N 16°27.6'
1	231°06.3'	S 18°28.8'	276°41.0'	S 22°35.7'	248°51.9'	S 21°46.9'	137°57.7'	N 16°28.2'
2	246°05.7'	S 18°28.2'	291°43.2'	S 22°35.7'	263°54.2'	S 21°46.8'	152°58.5'	N 16°28.7'
3	261°05.1'	S 18°27.7'	306°45.4'	S 22°35.7'	278°56.4'	S 21°46.8'	167°59.3'	N 16°29.2'
4	276°04.5'	S 18°27.1'	321°47.6'	S 22°35.8'	293°58.7'	S 21°46.8'	183°00.1'	N 16°29.7'
5	291°03.9'	S 18°26.5'	336°49.8'	S 22°35.8'	309°00.9'	S 21°46.8'	198°00.9'	N 16°30.3'
6	306°03.2'	S 18°26.0'	351°51.9'	S 22°35.8'	324°03.2'	S 21°46.7'	213°01.7'	N 16°30.8'
7	321°02.6'	S 18°25.4'	6°54.1'	S 22°35.8'	339°05.4'	S 21°46.7'	228°02.5'	N 16°31.3'
8	336°02.0'	S 18°24.8'	21°56.3'	S 22°35.8'	354°07.7'	S 21°46.7'	243°03.3'	N 16°31.9'
9	351°01.4'	S 18°24.3'	36°58.5'	S 22°35.8'	9°09.9'	S 21°46.7'	258°04.2'	N 16°32.4'
10	6°00.8'	S 18°23.7'	52°00.7'	S 22°35.8'	24°12.2'	S 21°46.6'	273°05.0'	N 16°32.9'
11	21°00.2'	S 18°23.1'	67°02.9'	S 22°35.8'	39°14.4'	S 21°46.6'	288°05.8'	N 16°33.5'
12	35°59.6'	S 18°22.5'	82°05.1'	S 22°35.9'	54°16.7'	S 21°46.6'	303°06.6'	N 16°34.0'
13	50°58.9'	S 18°22.0'	97°07.2'	S 22°35.9'	69°18.9'	S 21°46.6'	318°07.4'	N 16°34.5'
14	65°58.3'	S 18°21.4'	112°09.4'	S 22°35.9'	84°21.1'	S 21°46.5'	333°08.2'	N 16°35.0'
15	80°57.7'	S 18°20.8'	127°11.6'	S 22°35.9'	99°23.4'	S 21°46.5'	348°09.0'	N 16°35.6'
16	95°57.1'	S 18°20.2'	142°13.8'	S 22°35.9'	114°25.6'	S 21°46.5'	3°09.8'	N 16°36.1'
17	110°56.5'	S 18°19.7'	157°16.0'	S 22°35.9'	129°27.9'	S 21°46.5'	18°10.6'	N 16°36.6'
18	125°55.9'	S 18°19.1'	172°18.2'	S 22°35.9'	144°30.1'	S 21°46.4'	33°11.4'	N 16°37.1'
19	140°55.3'	S 18°18.5'	187°20.4'	S 22°36.0'	159°32.4'	S 21°46.4'	48°12.2'	N 16°37.7'
20	155°54.7'	S 18°17.9'	202°22.6'	S 22°36.0'	174°34.6'	S 21°46.4'	63°13.0'	N 16°38.2'
21	170°54.1'	S 18°17.3'	217°24.7'	S 22°36.0'	189°36.9'	S 21°46.4'	78°13.8'	N 16°38.7'
22	185°53.4'	S 18°16.8'	232°26.9'	S 22°36.0'	204°39.1'	S 21°46.3'	93°14.6'	N 16°39.3'
23	200°52.8'	S 18°16.2'	247°29.1'	S 22°36.0'	219°41.4'	S 21°46.3'	108°15.4'	N 16°39.8'

Thu Mar 7, 2019 UTC

UTC	Venus -3.9 v = -0.6' d = 0.6'		Jupiter -1.9 v = 2.2' d = 0.0'		Saturn +0.6 v = 2.3' d = 0.0'		Mars +1.2 v = 0.8' d = 0.5'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	215°52.2'	S 18°15.6'	262°31.3'	S 22°36.0'	234°43.6'	S 21°46.3'	123°16.2'	N 16°40.3'
1	230°51.6'	S 18°15.0'	277°33.5'	S 22°36.0'	249°45.9'	S 21°46.3'	138°17.0'	N 16°40.8'
2	245°51.0'	S 18°14.4'	292°35.7'	S 22°36.1'	264°48.1'	S 21°46.2'	153°17.8'	N 16°41.4'
3	260°50.4'	S 18°13.8'	307°37.9'	S 22°36.1'	279°50.4'	S 21°46.2'	168°18.6'	N 16°41.9'
4	275°49.8'	S 18°13.3'	322°40.1'	S 22°36.1'	294°52.7'	S 21°46.2'	183°19.4'	N 16°42.4'
5	290°49.2'	S 18°12.7'	337°42.3'	S 22°36.1'	309°54.9'	S 21°46.2'	198°20.2'	N 16°42.9'
6	305°48.6'	S 18°12.1'	352°44.4'	S 22°36.1'	324°57.2'	S 21°46.1'	213°21.0'	N 16°43.4'
7	320°48.0'	S 18°11.5'	7°46.6'	S 22°36.1'	339°59.4'	S 21°46.1'	228°21.8'	N 16°44.0'
8	335°47.4'	S 18°10.9'	22°48.8'	S 22°36.1'	355°01.7'	S 21°46.1'	243°22.6'	N 16°44.5'
9	350°46.8'	S 18°10.3'	37°51.0'	S 22°36.1'	10°03.9'	S 21°46.1'	258°23.4'	N 16°45.0'
10	5°46.2'	S 18°09.7'	52°53.2'	S 22°36.2'	25°06.2'	S 21°46.0'	273°24.2'	N 16°45.5'
11	20°45.5'	S 18°09.1'	67°55.4'	S 22°36.2'	40°08.4'	S 21°46.0'	288°25.0'	N 16°46.1'
12	35°44.9'	S 18°08.5'	82°57.6'	S 22°36.2'	55°10.7'	S 21°46.0'	303°25.8'	N 16°46.6'
13	50°44.3'	S 18°07.9'	97°59.8'	S 22°36.2'	70°12.9'	S 21°46.0'	318°26.6'	N 16°47.1'
14	65°43.7'	S 18°07.3'	113°02.0'	S 22°36.2'	85°15.2'	S 21°45.9'	333°27.4'	N 16°47.6'
15	80°43.1'	S 18°06.7'	128°04.2'	S 22°36.2'	100°17.4'	S 21°45.9'	348°28.2'	N 16°48.2'
16	95°42.5'	S 18°06.1'	143°06.4'	S 22°36.2'	115°19.7'	S 21°45.9'	3°29.0'	N 16°48.7'
17	110°41.9'	S 18°05.5'	158°08.6'	S 22°36.3'	130°21.9'	S 21°45.9'	18°29.8'	N 16°49.2'
18	125°41.3'	S 18°04.9'	173°10.8'	S 22°36.3'	145°24.2'	S 21°45.8'	33°30.6'	N 16°49.7'
19	140°40.7'	S 18°04.3'	188°13.0'	S 22°36.3'	160°26.4'	S 21°45.8'	48°31.4'	N 16°50.2'
20	155°40.1'	S 18°03.7'	203°15.2'	S 22°36.3'	175°28.7'	S 21°45.8'	63°32.2'	N 16°50.8'
21	170°39.5'	S 18°03.1'	218°17.3'	S 22°36.3'	190°30.9'	S 21°45.8'	78°33.0'	N 16°51.3'
22	185°38.9'	S 18°02.5'	233°19.5'	S 22°36.3'	205°33.2'	S 21°45.7'	93°33.8'	N 16°51.8'
23	200°38.3'	S 18°01.9'	248°21.7'	S 22°36.3'	220°35.4'	S 21°45.7'	108°34.6'	N 16°52.3'

Fri Mar 8, 2019 UTC

UTC	Venus -3.9 v = -0.6' d = 0.6'		Jupiter -1.9 v = 2.2' d = 0.0'		Saturn +0.6 v = 2.3' d = 0.0'		Mars +1.3 v = 0.8' d = 0.5'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	215°37.7'	S 18°01.3'	263°23.9'	S 22°36.3'	235°37.7'	S 21°45.7'	123°35.4'	N 16°52.8'
1	230°37.1'	S 18°00.7'	278°26.1'	S 22°36.4'	250°40.0'	S 21°45.7'	138°36.2'	N 16°53.4'
2	245°36.5'	S 18°00.1'	293°28.3'	S 22°36.4'	265°42.2'	S 21°45.6'	153°37.0'	N 16°53.9'
3	260°35.9'	S 17°59.5'	308°30.5'	S 22°36.4'	280°44.5'	S 21°45.6'	168°37.8'	N 16°54.4'
4	275°35.3'	S 17°58.9'	323°32.7'	S 22°36.4'	295°46.7'	S 21°45.6'	183°38.6'	N 16°54.9'
5	290°34.7'	S 17°58.3'	338°34.9'	S 22°36.4'	310°49.0'	S 21°45.6'	198°39.4'	N 16°55.4'
6	305°34.1'	S 17°57.7'	353°37.1'	S 22°36.4'	325°51.2'	S 21°45.5'	213°40.2'	N 16°56.0'
7	320°33.5'	S 17°57.1'	8°39.3'	S 22°36.4'	340°53.5'	S 21°45.5'	228°41.0'	N 16°56.5'
8	335°32.9'	S 17°56.4'	23°41.5'	S 22°36.4'	355°55.7'	S 21°45.5'	243°41.8'	N 16°57.0'
9	350°32.3'	S 17°55.8'	38°43.7'	S 22°36.5'	10°58.0'	S 21°45.5'	258°42.6'	N 16°57.5'
10	5°31.7'	S 17°55.2'	53°45.9'	S 22°36.5'	26°00.2'	S 21°45.4'	273°43.4'	N 16°58.0'
11	20°31.1'	S 17°54.6'	68°48.1'	S 22°36.5'	41°02.5'	S 21°45.4'	288°44.2'	N 16°58.5'
12	35°30.5'	S 17°54.0'	83°50.3'	S 22°36.5'	56°04.8'	S 21°45.4'	303°45.0'	N 16°59.1'
13	50°29.9'	S 17°53.4'	98°52.5'	S 22°36.5'	71°07.0'	S 21°45.4'	318°45.8'	N 16°59.6'
14	65°29.3'	S 17°52.7'	113°54.7'	S 22°36.5'	86°09.3'	S 21°45.3'	333°46.6'	N 17°00.1'
15	80°28.7'	S 17°52.1'	128°56.9'	S 22°36.5'	101°11.5'	S 21°45.3'	348°47.4'	N 17°00.6'
16	95°28.1'	S 17°51.5'	143°59.1'	S 22°36.6'	116°13.8'	S 21°45.3'	3°48.2'	N 17°01.1'
17	110°27.5'	S 17°50.9'	159°01.3'	S 22°36.6'	131°16.0'	S 21°45.3'	18°49.0'	N 17°01.6'
18	125°26.9'	S 17°50.3'	174°03.5'	S 22°36.6'	146°18.3'	S 21°45.2'	33°49.8'	N 17°02.2'
19	140°26.3'	S 17°49.6'	189°05.7'	S 22°36.6'	161°20.5'	S 21°45.2'	48°50.6'	N 17°02.7'
20	155°25.7'	S 17°49.0'	204°07.9'	S 22°36.6'	176°22.8'	S 21°45.2'	63°51.4'	N 17°03.2'
21	170°25.1'	S 17°48.4'	219°10.1'	S 22°36.6'	191°25.1'	S 21°45.2'	78°52.2'	N 17°03.7'
22	185°24.5'	S 17°47.8'	234°12.3'	S 22°36.6'	206°27.3'	S 21°45.1'	93°53.0'	N 17°04.2'
23	200°23.9'	S 17°47.1'	249°14.5'	S 22°36.6'	221°29.6'	S 21°45.1'	108°53.8'	N 17°04.7'

Sat Mar 9, 2019 UTC

UTC	Venus -3.9 v = -0.6' d = 0.6'		Jupiter -1.9 v = 2.2' d = 0.0'		Saturn +0.6 v = 2.3' d = 0.0'		Mars +1.3 v = 0.8' d = 0.5'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	215°23.3'	S 17°46.5'	264°16.7'	S 22°36.7'	236°31.8'	S 21°45.1'	123°54.6'	N 17°05.2'
1	230°22.7'	S 17°45.9'	279°18.9'	S 22°36.7'	251°34.1'	S 21°45.1'	138°55.3'	N 17°05.8'
2	245°22.1'	S 17°45.3'	294°21.1'	S 22°36.7'	266°36.3'	S 21°45.0'	153°56.1'	N 17°06.3'
3	260°21.5'	S 17°44.6'	309°23.3'	S 22°36.7'	281°38.6'	S 21°45.0'	168°56.9'	N 17°06.8'
4	275°20.9'	S 17°44.0'	324°25.5'	S 22°36.7'	296°40.9'	S 21°45.0'	183°57.7'	N 17°07.3'
5	290°20.3'	S 17°43.4'	339°27.8'	S 22°36.7'	311°43.1'	S 21°45.0'	198°58.5'	N 17°07.8'
6	305°19.7'	S 17°42.7'	354°30.0'	S 22°36.7'	326°45.4'	S 21°44.9'	213°59.3'	N 17°08.3'
7	320°19.1'	S 17°42.1'	9°32.2'	S 22°36.7'	341°47.6'	S 21°44.9'	229°00.1'	N 17°08.8'
8	335°18.5'	S 17°41.5'	24°34.4'	S 22°36.8'	356°49.9'	S 21°44.9'	244°00.9'	N 17°09.3'
9	350°17.9'	S 17°40.8'	39°36.6'	S 22°36.8'	11°52.1'	S 21°44.9'	259°01.7'	N 17°09.9'
10	5°17.4'	S 17°40.2'	54°38.8'	S 22°36.8'	26°54.4'	S 21°44.8'	274°02.5'	N 17°10.4'
11	20°16.8'	S 17°39.6'	69°41.0'	S 22°36.8'	41°56.7'	S 21°44.8'	289°03.3'	N 17°10.9'
12	35°16.2'	S 17°38.9'	84°43.2'	S 22°36.8'	56°58.9'	S 21°44.8'	304°04.1'	N 17°11.4'
13	50°15.6'	S 17°38.3'	99°45.4'	S 22°36.8'	72°01.2'	S 21°44.8'	319°04.9'	N 17°11.9'
14	65°15.0'	S 17°37.7'	114°47.6'	S 22°36.8'	87°03.4'	S 21°44.7'	334°05.7'	N 17°12.4'
15	80°14.4'	S 17°37.0'	129°49.8'	S 22°36.8'	102°05.7'	S 21°44.7'	349°06.5'	N 17°12.9'
16	95°13.8'	S 17°36.4'	144°52.0'	S 22°36.8'	117°08.0'	S 21°44.7'	4°07.3'	N 17°13.4'
17	110°13.2'	S 17°35.7'	159°54.2'	S 22°36.9'	132°10.2'	S 21°44.7'	19°08.1'	N 17°13.9'
18	125°12.6'	S 17°35.1'	174°56.4'	S 22°36.9'	147°12.5'	S 21°44.6'	34°08.9'	N 17°14.5'
19	140°12.0'	S 17°34.4'	189°58.7'	S 22°36.9'	162°14.7'	S 21°44.6'	49°09.7'	N 17°15.0'
20	155°11.4'	S 17°33.8'	205°00.9'	S 22°36.9'	177°17.0'	S 21°44.6'	64°10.5'	N 17°15.5'
21	170°10.9'	S 17°33.2'	220°03.1'	S 22°36.9'	192°19.3'	S 21°44.6'	79°11.2'	N 17°16.0'
22	185°10.3'	S 17°32.5'	235°05.3'	S 22°36.9'	207°21.5'	S 21°44.5'	94°12.0'	N 17°16.5'
23	200°09.7'	S 17°31.9'	250°07.5'	S 22°36.9'	222°23.8'	S 21°44.5'	109°12.8'	N 17°17.0'

Sun Mar 10, 2019 UTC

UTC	Venus -3.9 v = -0.6' d = 0.7'		Jupiter -1.9 v = 2.2' d = 0.0'		Saturn +0.6 v = 2.3' d = 0.0'		Mars +1.3 v = 0.8' d = 0.5'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	215°09.1'	S 17°31.2'	265°09.7'	S 22°36.9'	237°26.0'	S 21°44.5'	124°13.6'	N 17°17.5'
1	230°08.5'	S 17°30.6'	280°11.9'	S 22°37.0'	252°28.3'	S 21°44.5'	139°14.4'	N 17°18.0'
2	245°07.9'	S 17°29.9'	295°14.1'	S 22°37.0'	267°30.6'	S 21°44.5'	154°15.2'	N 17°18.5'
3	260°07.3'	S 17°29.3'	310°16.3'	S 22°37.0'	282°32.8'	S 21°44.4'	169°16.0'	N 17°19.0'
4	275°06.7'	S 17°28.6'	325°18.5'	S 22°37.0'	297°35.1'	S 21°44.4'	184°16.8'	N 17°19.5'
5	290°06.1'	S 17°28.0'	340°20.8'	S 22°37.0'	312°37.3'	S 21°44.4'	199°17.6'	N 17°20.0'
6	305°05.6'	S 17°27.3'	355°23.0'	S 22°37.0'	327°39.6'	S 21°44.4'	214°18.4'	N 17°20.6'
7	320°05.0'	S 17°26.7'	10°25.2'	S 22°37.0'	342°41.9'	S 21°44.3'	229°19.2'	N 17°21.1'
8	335°04.4'	S 17°26.0'	25°27.4'	S 22°37.0'	357°44.1'	S 21°44.3'	244°20.0'	N 17°21.6'
9	350°03.8'	S 17°25.4'	40°29.6'	S 22°37.0'	12°46.4'	S 21°44.3'	259°20.8'	N 17°22.1'
10	5°03.2'	S 17°24.7'	55°31.8'	S 22°37.1'	27°48.6'	S 21°44.3'	274°21.6'	N 17°22.6'
11	20°02.6'	S 17°24.0'	70°34.0'	S 22°37.1'	42°50.9'	S 21°44.2'	289°22.3'	N 17°23.1'
12	35°02.0'	S 17°23.4'	85°36.3'	S 22°37.1'	57°53.2'	S 21°44.2'	304°23.1'	N 17°23.6'
13	50°01.5'	S 17°22.7'	100°38.5'	S 22°37.1'	72°55.4'	S 21°44.2'	319°23.9'	N 17°24.1'
14	65°00.9'	S 17°22.1'	115°40.7'	S 22°37.1'	87°57.7'	S 21°44.2'	334°24.7'	N 17°24.6'
15	80°00.3'	S 17°21.4'	130°42.9'	S 22°37.1'	102°59.9'	S 21°44.1'	349°25.5'	N 17°25.1'
16	94°59.7'	S 17°20.7'	145°45.1'	S 22°37.1'	118°02.2'	S 21°44.1'	4°26.3'	N 17°25.6'
17	109°59.1'	S 17°20.1'	160°47.3'	S 22°37.1'	133°04.5'	S 21°44.1'	19°27.1'	N 17°26.1'
18	124°58.5'	S 17°19.4'	175°49.5'	S 22°37.2'	148°06.7'	S 21°44.1'	34°27.9'	N 17°26.6'
19	139°57.9'	S 17°18.8'	190°51.8'	S 22°37.2'	163°09.0'	S 21°44.0'	49°28.7'	N 17°27.1'
20	154°57.4'	S 17°18.1'	205°54.0'	S 22°37.2'	178°11.3'	S 21°44.0'	64°29.5'	N 17°27.6'
21	169°56.8'	S 17°17.4'	220°56.2'	S 22°37.2'	193°13.5'	S 21°44.0'	79°30.3'	N 17°28.1'
22	184°56.2'	S 17°16.8'	235°58.4'	S 22°37.2'	208°15.8'	S 21°44.0'	94°31.0'	N 17°28.6'
23	199°55.6'	S 17°16.1'	251°00.6'	S 22°37.2'	223°18.1'	S 21°43.9'	109°31.8'	N 17°29.1'

Mon Mar 11, 2019 UTC

UTC	Venus -3.9 v = -0.6' d = 0.7'		Jupiter -1.9 v = 2.2' d = 0.0'		Saturn +0.6 v = 2.3' d = 0.0'		Mars +1.3 v = 0.8' d = 0.5'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	214°55.0'	S 17°15.4'	266°02.8'	S 22°37.2'	238°20.3'	S 21°43.9'	124°32.6'	N 17°29.6'
1	229°54.5'	S 17°14.8'	281°05.1'	S 22°37.2'	253°22.6'	S 21°43.9'	139°33.4'	N 17°30.1'
2	244°53.9'	S 17°14.1'	296°07.3'	S 22°37.2'	268°24.8'	S 21°43.9'	154°34.2'	N 17°30.6'
3	259°53.3'	S 17°13.4'	311°09.5'	S 22°37.3'	283°27.1'	S 21°43.8'	169°35.0'	N 17°31.1'
4	274°52.7'	S 17°12.7'	326°11.7'	S 22°37.3'	298°29.4'	S 21°43.8'	184°35.8'	N 17°31.6'
5	289°52.1'	S 17°12.1'	341°13.9'	S 22°37.3'	313°31.6'	S 21°43.8'	199°36.6'	N 17°32.1'
6	304°51.6'	S 17°11.4'	356°16.2'	S 22°37.3'	328°33.9'	S 21°43.8'	214°37.4'	N 17°32.6'
7	319°51.0'	S 17°10.7'	11°18.4'	S 22°37.3'	343°36.2'	S 21°43.8'	229°38.2'	N 17°33.1'
8	334°50.4'	S 17°10.0'	26°20.6'	S 22°37.3'	358°38.4'	S 21°43.7'	244°38.9'	N 17°33.6'
9	349°49.8'	S 17°09.4'	41°22.8'	S 22°37.3'	13°40.7'	S 21°43.7'	259°39.7'	N 17°34.1'
10	4°49.2'	S 17°08.7'	56°25.0'	S 22°37.3'	28°43.0'	S 21°43.7'	274°40.5'	N 17°34.6'
11	19°48.7'	S 17°08.0'	71°27.3'	S 22°37.3'	43°45.2'	S 21°43.7'	289°41.3'	N 17°35.1'
12	34°48.1'	S 17°07.3'	86°29.5'	S 22°37.4'	58°47.5'	S 21°43.6'	304°42.1'	N 17°35.6'
13	49°47.5'	S 17°06.7'	101°31.7'	S 22°37.4'	73°49.8'	S 21°43.6'	319°42.9'	N 17°36.1'
14	64°46.9'	S 17°06.0'	116°33.9'	S 22°37.4'	88°52.0'	S 21°43.6'	334°43.7'	N 17°36.6'
15	79°46.3'	S 17°05.3'	131°36.1'	S 22°37.4'	103°54.3'	S 21°43.6'	349°44.5'	N 17°37.1'
16	94°45.8'	S 17°04.6'	146°38.4'	S 22°37.4'	118°56.5'	S 21°43.5'	4°45.3'	N 17°37.6'
17	109°45.2'	S 17°03.9'	161°40.6'	S 22°37.4'	133°58.8'	S 21°43.5'	19°46.0'	N 17°38.1'
18	124°44.6'	S 17°03.2'	176°42.8'	S 22°37.4'	149°01.1'	S 21°43.5'	34°46.8'	N 17°38.6'
19	139°44.0'	S 17°02.6'	191°45.0'	S 22°37.4'	164°03.3'	S 21°43.5'	49°47.6'	N 17°39.1'
20	154°43.5'	S 17°01.9'	206°47.3'	S 22°37.4'	179°05.6'	S 21°43.4'	64°48.4'	N 17°39.6'
21	169°42.9'	S 17°01.2'	221°49.5'	S 22°37.5'	194°07.9'	S 21°43.4'	79°49.2'	N 17°40.1'
22	184°42.3'	S 17°00.5'	236°51.7'	S 22°37.5'	209°10.1'	S 21°43.4'	94°50.0'	N 17°40.6'
23	199°41.7'	S 16°59.8'	251°53.9'	S 22°37.5'	224°12.4'	S 21°43.4'	109°50.8'	N 17°41.1'

Tue Mar 12, 2019 UTC

UTC	Venus -3.9 v = -0.6' d = 0.7'		Jupiter -2.0 v = 2.2' d = 0.0'		Saturn +0.6 v = 2.3' d = 0.0'		Mars +1.3 v = 0.8' d = 0.5'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	214°41.2'	S 16°59.1'	266°56.2'	S 22°37.5'	239°14.7'	S 21°43.3'	124°51.6'	N 17°41.6'
1	229°40.6'	S 16°58.4'	281°58.4'	S 22°37.5'	254°16.9'	S 21°43.3'	139°52.3'	N 17°42.1'
2	244°40.0'	S 16°57.8'	297°00.6'	S 22°37.5'	269°19.2'	S 21°43.3'	154°53.1'	N 17°42.6'
3	259°39.4'	S 16°57.1'	312°02.8'	S 22°37.5'	284°21.5'	S 21°43.3'	169°53.9'	N 17°43.1'
4	274°38.9'	S 16°56.4'	327°05.1'	S 22°37.5'	299°23.7'	S 21°43.3'	184°54.7'	N 17°43.6'
5	289°38.3'	S 16°55.7'	342°07.3'	S 22°37.5'	314°26.0'	S 21°43.2'	199°55.5'	N 17°44.1'
6	304°37.7'	S 16°55.0'	357°09.5'	S 22°37.6'	329°28.3'	S 21°43.2'	214°56.3'	N 17°44.6'
7	319°37.2'	S 16°54.3'	12°11.7'	S 22°37.6'	344°30.6'	S 21°43.2'	229°57.1'	N 17°45.1'
8	334°36.6'	S 16°53.6'	27°14.0'	S 22°37.6'	359°32.8'	S 21°43.2'	244°57.9'	N 17°45.6'
9	349°36.0'	S 16°52.9'	42°16.2'	S 22°37.6'	14°35.1'	S 21°43.1'	259°58.6'	N 17°46.1'
10	4°35.4'	S 16°52.2'	57°18.4'	S 22°37.6'	29°37.4'	S 21°43.1'	274°59.4'	N 17°46.6'
11	19°34.9'	S 16°51.5'	72°20.7'	S 22°37.6'	44°39.6'	S 21°43.1'	290°00.2'	N 17°47.1'
12	34°34.3'	S 16°50.8'	87°22.9'	S 22°37.6'	59°41.9'	S 21°43.1'	305°01.0'	N 17°47.6'
13	49°33.7'	S 16°50.1'	102°25.1'	S 22°37.6'	74°44.2'	S 21°43.0'	320°01.8'	N 17°48.0'
14	64°33.2'	S 16°49.4'	117°27.3'	S 22°37.6'	89°46.4'	S 21°43.0'	335°02.6'	N 17°48.5'
15	79°32.6'	S 16°48.7'	132°29.6'	S 22°37.6'	104°48.7'	S 21°43.0'	350°03.4'	N 17°49.0'
16	94°32.0'	S 16°48.0'	147°31.8'	S 22°37.7'	119°51.0'	S 21°43.0'	5°04.1'	N 17°49.5'
17	109°31.5'	S 16°47.3'	162°34.0'	S 22°37.7'	134°53.2'	S 21°42.9'	20°04.9'	N 17°50.0'
18	124°30.9'	S 16°46.6'	177°36.3'	S 22°37.7'	149°55.5'	S 21°42.9'	35°05.7'	N 17°50.5'
19	139°30.3'	S 16°45.9'	192°38.5'	S 22°37.7'	164°57.8'	S 21°42.9'	50°06.5'	N 17°51.0'
20	154°29.8'	S 16°45.2'	207°40.7'	S 22°37.7'	180°00.0'	S 21°42.9'	65°07.3'	N 17°51.5'
21	169°29.2'	S 16°44.5'	222°42.9'	S 22°37.7'	195°02.3'	S 21°42.9'	80°08.1'	N 17°52.0'
22	184°28.6'	S 16°43.8'	237°45.2'	S 22°37.7'	210°04.6'	S 21°42.8'	95°08.9'	N 17°52.5'
23	199°28.0'	S 16°43.1'	252°47.4'	S 22°37.7'	225°06.9'	S 21°42.8'	110°09.6'	N 17°53.0'

Wed Mar 13, 2019 UTC

UTC	Venus -3.9		Jupiter -2.0		Saturn +0.6		Mars +1.3	
	v = -0.6' d = 0.7'		v = 2.2' d = 0.0'		v = 2.3' d = 0.0'		v = 0.8' d = 0.5'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	214°27.5'	S 16°42.4'	267°49.6'	S 22°37.7'	240°09.1'	S 21°42.8'	125°10.4'	N 17°53.5'
1	229°26.9'	S 16°41.6'	282°51.9'	S 22°37.8'	255°11.4'	S 21°42.8'	140°11.2'	N 17°53.9'
2	244°26.3'	S 16°40.9'	297°54.1'	S 22°37.8'	270°13.7'	S 21°42.7'	155°12.0'	N 17°54.4'
3	259°25.8'	S 16°40.2'	312°56.3'	S 22°37.8'	285°15.9'	S 21°42.7'	170°12.8'	N 17°54.9'
4	274°25.2'	S 16°39.5'	327°58.6'	S 22°37.8'	300°18.2'	S 21°42.7'	185°13.6'	N 17°55.4'
5	289°24.7'	S 16°38.8'	343°00.8'	S 22°37.8'	315°20.5'	S 21°42.7'	200°14.3'	N 17°55.9'
6	304°24.1'	S 16°38.1'	358°03.0'	S 22°37.8'	330°22.7'	S 21°42.6'	215°15.1'	N 17°56.4'
7	319°23.5'	S 16°37.4'	13°05.3'	S 22°37.8'	345°25.0'	S 21°42.6'	230°15.9'	N 17°56.9'
8	334°23.0'	S 16°36.7'	28°07.5'	S 22°37.8'	0°27.3'	S 21°42.6'	245°16.7'	N 17°57.4'
9	349°22.4'	S 16°35.9'	43°09.7'	S 22°37.8'	15°29.6'	S 21°42.6'	260°17.5'	N 17°57.9'
10	4°21.8'	S 16°35.2'	58°12.0'	S 22°37.8'	30°31.8'	S 21°42.5'	275°18.3'	N 17°58.3'
11	19°21.3'	S 16°34.5'	73°14.2'	S 22°37.9'	45°34.1'	S 21°42.5'	290°19.0'	N 17°58.8'
12	34°20.7'	S 16°33.8'	88°16.5'	S 22°37.9'	60°36.4'	S 21°42.5'	305°19.8'	N 17°59.3'
13	49°20.1'	S 16°33.1'	103°18.7'	S 22°37.9'	75°38.6'	S 21°42.5'	320°20.6'	N 17°59.8'
14	64°19.6'	S 16°32.4'	118°20.9'	S 22°37.9'	90°40.9'	S 21°42.5'	335°21.4'	N 18°00.3'
15	79°19.0'	S 16°31.6'	133°23.2'	S 22°37.9'	105°43.2'	S 21°42.4'	350°22.2'	N 18°00.8'
16	94°18.5'	S 16°30.9'	148°25.4'	S 22°37.9'	120°45.5'	S 21°42.4'	5°23.0'	N 18°01.3'
17	109°17.9'	S 16°30.2'	163°27.6'	S 22°37.9'	135°47.7'	S 21°42.4'	20°23.7'	N 18°01.8'
18	124°17.3'	S 16°29.5'	178°29.9'	S 22°37.9'	150°50.0'	S 21°42.4'	35°24.5'	N 18°02.2'
19	139°16.8'	S 16°28.7'	193°32.1'	S 22°37.9'	165°52.3'	S 21°42.3'	50°25.3'	N 18°02.7'
20	154°16.2'	S 16°28.0'	208°34.4'	S 22°37.9'	180°54.6'	S 21°42.3'	65°26.1'	N 18°03.2'
21	169°15.7'	S 16°27.3'	223°36.6'	S 22°38.0'	195°56.8'	S 21°42.3'	80°26.9'	N 18°03.7'
22	184°15.1'	S 16°26.6'	238°38.8'	S 22°38.0'	210°59.1'	S 21°42.3'	95°27.7'	N 18°04.2'
23	199°14.5'	S 16°25.8'	253°41.1'	S 22°38.0'	226°01.4'	S 21°42.2'	110°28.4'	N 18°04.7'

Thu Mar 14, 2019 UTC

UTC	Venus -3.9		Jupiter -2.0		Saturn +0.6		Mars +1.3	
	v = -0.6' d = 0.7'		v = 2.2' d = 0.0'		v = 2.3' d = 0.0'		v = 0.8' d = 0.5'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	214°14.0'	S 16°25.1'	268°43.3'	S 22°38.0'	241°03.7'	S 21°42.2'	125°29.2'	N 18°05.2'
1	229°13.4'	S 16°24.4'	283°45.6'	S 22°38.0'	256°05.9'	S 21°42.2'	140°30.0'	N 18°05.6'
2	244°12.9'	S 16°23.6'	298°47.8'	S 22°38.0'	271°08.2'	S 21°42.2'	155°30.8'	N 18°06.1'
3	259°12.3'	S 16°22.9'	313°50.0'	S 22°38.0'	286°10.5'	S 21°42.2'	170°31.6'	N 18°06.6'
4	274°11.7'	S 16°22.2'	328°52.3'	S 22°38.0'	301°12.7'	S 21°42.1'	185°32.3'	N 18°07.1'
5	289°11.2'	S 16°21.5'	343°54.5'	S 22°38.0'	316°15.0'	S 21°42.1'	200°33.1'	N 18°07.6'
6	304°10.6'	S 16°20.7'	358°56.8'	S 22°38.0'	331°17.3'	S 21°42.1'	215°33.9'	N 18°08.1'
7	319°10.1'	S 16°20.0'	13°59.0'	S 22°38.1'	346°19.6'	S 21°42.1'	230°34.7'	N 18°08.5'
8	334°09.5'	S 16°19.3'	29°01.2'	S 22°38.1'	1°21.8'	S 21°42.0'	245°35.5'	N 18°09.0'
9	349°09.0'	S 16°18.5'	44°03.5'	S 22°38.1'	16°24.1'	S 21°42.0'	260°36.2'	N 18°09.5'
10	4°08.4'	S 16°17.8'	59°05.7'	S 22°38.1'	31°26.4'	S 21°42.0'	275°37.0'	N 18°10.0'
11	19°07.9'	S 16°17.0'	74°08.0'	S 22°38.1'	46°28.7'	S 21°42.0'	290°37.8'	N 18°10.5'
12	34°07.3'	S 16°16.3'	89°10.2'	S 22°38.1'	61°30.9'	S 21°42.0'	305°38.6'	N 18°10.9'
13	49°06.7'	S 16°15.6'	104°12.5'	S 22°38.1'	76°33.2'	S 21°41.9'	320°39.4'	N 18°11.4'
14	64°06.2'	S 16°14.8'	119°14.7'	S 22°38.1'	91°35.5'	S 21°41.9'	335°40.1'	N 18°11.9'
15	79°05.6'	S 16°14.1'	134°16.9'	S 22°38.1'	106°37.8'	S 21°41.9'	350°40.9'	N 18°12.4'
16	94°05.1'	S 16°13.4'	149°19.2'	S 22°38.1'	121°40.0'	S 21°41.9'	5°41.7'	N 18°12.9'
17	109°04.5'	S 16°12.6'	164°21.4'	S 22°38.1'	136°42.3'	S 21°41.8'	20°42.5'	N 18°13.3'
18	124°04.0'	S 16°11.9'	179°23.7'	S 22°38.2'	151°44.6'	S 21°41.8'	35°43.3'	N 18°13.8'
19	139°03.4'	S 16°11.1'	194°25.9'	S 22°38.2'	166°46.9'	S 21°41.8'	50°44.0'	N 18°14.3'
20	154°02.9'	S 16°10.4'	209°28.2'	S 22°38.2'	181°49.2'	S 21°41.8'	65°44.8'	N 18°14.8'
21	169°02.3'	S 16°09.6'	224°30.4'	S 22°38.2'	196°51.4'	S 21°41.7'	80°45.6'	N 18°15.3'
22	184°01.8'	S 16°08.9'	239°32.7'	S 22°38.2'	211°53.7'	S 21°41.7'	95°46.4'	N 18°15.7'
23	199°01.2'	S 16°08.1'	254°34.9'	S 22°38.2'	226°56.0'	S 21°41.7'	110°47.2'	N 18°16.2'

Fri Mar 15, 2019 UTC

UTC	Venus -3.9		Jupiter -2.0		Saturn +0.6		Mars +1.3	
	v = -0.5' d = 0.8'		v = 2.3' d = 0.0'		v = 2.3' d = 0.0'		v = 0.8' d = 0.5'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	214°00.7'	S 16°07.4'	269°37.2'	S 22°38.2'	241°58.3'	S 21°41.7'	125°47.9'	N 18°16.7'
1	229°00.1'	S 16°06.6'	284°39.4'	S 22°38.2'	257°00.5'	S 21°41.7'	140°48.7'	N 18°17.2'
2	243°59.6'	S 16°05.9'	299°41.6'	S 22°38.2'	272°02.8'	S 21°41.6'	155°49.5'	N 18°17.7'
3	258°59.0'	S 16°05.1'	314°43.9'	S 22°38.2'	287°05.1'	S 21°41.6'	170°50.3'	N 18°18.1'
4	273°58.5'	S 16°04.4'	329°46.1'	S 22°38.3'	302°07.4'	S 21°41.6'	185°51.1'	N 18°18.6'
5	288°57.9'	S 16°03.6'	344°48.4'	S 22°38.3'	317°09.6'	S 21°41.6'	200°51.8'	N 18°19.1'
6	303°57.4'	S 16°02.9'	359°50.6'	S 22°38.3'	332°11.9'	S 21°41.5'	215°52.6'	N 18°19.6'
7	318°56.8'	S 16°02.1'	14°52.9'	S 22°38.3'	347°14.2'	S 21°41.5'	230°53.4'	N 18°20.0'
8	333°56.3'	S 16°01.4'	29°55.1'	S 22°38.3'	2°16.5'	S 21°41.5'	245°54.2'	N 18°20.5'
9	348°55.7'	S 16°00.6'	44°57.4'	S 22°38.3'	17°18.8'	S 21°41.5'	260°54.9'	N 18°21.0'
10	3°55.2'	S 15°59.9'	59°59.6'	S 22°38.3'	32°21.0'	S 21°41.5'	275°55.7'	N 18°21.5'
11	18°54.6'	S 15°59.1'	75°01.9'	S 22°38.3'	47°23.3'	S 21°41.4'	290°56.5'	N 18°21.9'
12	33°54.1'	S 15°58.4'	90°04.1'	S 22°38.3'	62°25.6'	S 21°41.4'	305°57.3'	N 18°22.4'
13	48°53.5'	S 15°57.6'	105°06.4'	S 22°38.3'	77°27.9'	S 21°41.4'	320°58.1'	N 18°22.9'
14	63°53.0'	S 15°56.9'	120°08.6'	S 22°38.3'	92°30.2'	S 21°41.4'	335°58.8'	N 18°23.4'
15	78°52.4'	S 15°56.1'	135°10.9'	S 22°38.4'	107°32.4'	S 21°41.3'	350°59.6'	N 18°23.8'
16	93°51.9'	S 15°55.3'	150°13.1'	S 22°38.4'	122°34.7'	S 21°41.3'	6°00.4'	N 18°24.3'
17	108°51.4'	S 15°54.6'	165°15.4'	S 22°38.4'	137°37.0'	S 21°41.3'	21°01.2'	N 18°24.8'
18	123°50.8'	S 15°53.8'	180°17.7'	S 22°38.4'	152°39.3'	S 21°41.3'	36°01.9'	N 18°25.3'
19	138°50.3'	S 15°53.0'	195°19.9'	S 22°38.4'	167°41.5'	S 21°41.2'	51°02.7'	N 18°25.7'
20	153°49.7'	S 15°52.3'	210°22.2'	S 22°38.4'	182°43.8'	S 21°41.2'	66°03.5'	N 18°26.2'
21	168°49.2'	S 15°51.5'	225°24.4'	S 22°38.4'	197°46.1'	S 21°41.2'	81°04.3'	N 18°26.7'
22	183°48.6'	S 15°50.8'	240°26.7'	S 22°38.4'	212°48.4'	S 21°41.2'	96°05.0'	N 18°27.2'
23	198°48.1'	S 15°50.0'	255°28.9'	S 22°38.4'	227°50.7'	S 21°41.2'	111°05.8'	N 18°27.6'

Sat Mar 16, 2019 UTC

UTC	Venus -3.9		Jupiter -2.0		Saturn +0.6		Mars +1.3	
	v = -0.5' d = 0.8'		v = 2.3' d = 0.0'		v = 2.3' d = 0.0'		v = 0.8' d = 0.5'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	213°47.5'	S 15°49.2'	270°31.2'	S 22°38.4'	242°52.9'	S 21°41.1'	126°06.6'	N 18°28.1'
1	228°47.0'	S 15°48.5'	285°33.4'	S 22°38.4'	257°55.2'	S 21°41.1'	141°07.4'	N 18°28.6'
2	243°46.5'	S 15°47.7'	300°35.7'	S 22°38.5'	272°57.5'	S 21°41.1'	156°08.2'	N 18°29.0'
3	258°45.9'	S 15°46.9'	315°37.9'	S 22°38.5'	287°59.8'	S 21°41.1'	171°08.9'	N 18°29.5'
4	273°45.4'	S 15°46.2'	330°40.2'	S 22°38.5'	303°02.1'	S 21°41.0'	186°09.7'	N 18°30.0'
5	288°44.8'	S 15°45.4'	345°42.5'	S 22°38.5'	318°04.4'	S 21°41.0'	201°10.5'	N 18°30.5'
6	303°44.3'	S 15°44.6'	0°44.7'	S 22°38.5'	333°06.6'	S 21°41.0'	216°11.3'	N 18°30.9'
7	318°43.8'	S 15°43.8'	15°47.0'	S 22°38.5'	348°08.9'	S 21°41.0'	231°12.0'	N 18°31.4'
8	333°43.2'	S 15°43.1'	30°49.2'	S 22°38.5'	3°11.2'	S 21°41.0'	246°12.8'	N 18°31.9'
9	348°42.7'	S 15°42.3'	45°51.5'	S 22°38.5'	18°13.5'	S 21°40.9'	261°13.6'	N 18°32.3'
10	3°42.1'	S 15°41.5'	60°53.7'	S 22°38.5'	33°15.8'	S 21°40.9'	276°14.4'	N 18°32.8'
11	18°41.6'	S 15°40.7'	75°56.0'	S 22°38.5'	48°18.0'	S 21°40.9'	291°15.1'	N 18°33.3'
12	33°41.1'	S 15°40.0'	90°58.3'	S 22°38.5'	63°20.3'	S 21°40.9'	306°15.9'	N 18°33.7'
13	48°40.5'	S 15°39.2'	106°00.5'	S 22°38.5'	78°22.6'	S 21°40.8'	321°16.7'	N 18°34.2'
14	63°40.0'	S 15°38.4'	121°02.8'	S 22°38.6'	93°24.9'	S 21°40.8'	336°17.5'	N 18°34.7'
15	78°39.4'	S 15°37.6'	136°05.0'	S 22°38.6'	108°27.2'	S 21°40.8'	351°18.2'	N 18°35.1'
16	93°38.9'	S 15°36.9'	151°07.3'	S 22°38.6'	123°29.5'	S 21°40.8'	6°19.0'	N 18°35.6'
17	108°38.4'	S 15°36.1'	166°09.6'	S 22°38.6'	138°31.7'	S 21°40.8'	21°19.8'	N 18°36.1'
18	123°37.8'	S 15°35.3'	181°11.8'	S 22°38.6'	153°34.0'	S 21°40.7'	36°20.6'	N 18°36.5'
19	138°37.3'	S 15°34.5'	196°14.1'	S 22°38.6'	168°36.3'	S 21°40.7'	51°21.3'	N 18°37.0'
20	153°36.8'	S 15°33.7'	211°16.3'	S 22°38.6'	183°38.6'	S 21°40.7'	66°22.1'	N 18°37.5'
21	168°36.2'	S 15°33.0'	226°18.6'	S 22°38.6'	198°40.9'	S 21°40.7'	81°22.9'	N 18°37.9'
22	183°35.7'	S 15°32.2'	241°20.9'	S 22°38.6'	213°43.2'	S 21°40.7'	96°23.6'	N 18°38.4'
23	198°35.2'	S 15°31.4'	256°23.1'	S 22°38.6'	228°45.4'	S 21°40.6'	111°24.4'	N 18°38.9'



Sun Mar 17, 2019 UTC

UTC	Venus -3.9		Jupiter -2.0		Saturn +0.6		Mars +1.3	
	v = -0.5' d = 0.8'		v = 2.3' d = 0.0'		v = 2.3' d = 0.0'		v = 0.8' d = 0.5'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	213°34.6'	S 15°30.6'	271°25.4'	S 22°38.6'	243°47.7'	S 21°40.6'	126°25.2'	N 18°39.3'
1	228°34.1'	S 15°29.8'	286°27.6'	S 22°38.7'	258°50.0'	S 21°40.6'	141°26.0'	N 18°39.8'
2	243°33.5'	S 15°29.0'	301°29.9'	S 22°38.7'	273°52.3'	S 21°40.6'	156°26.7'	N 18°40.3'
3	258°33.0'	S 15°28.2'	316°32.2'	S 22°38.7'	288°54.6'	S 21°40.5'	171°27.5'	N 18°40.7'
4	273°32.5'	S 15°27.5'	331°34.4'	S 22°38.7'	303°56.9'	S 21°40.5'	186°28.3'	N 18°41.2'
5	288°31.9'	S 15°26.7'	346°36.7'	S 22°38.7'	318°59.1'	S 21°40.5'	201°29.1'	N 18°41.7'
6	303°31.4'	S 15°25.9'	1°39.0'	S 22°38.7'	334°01.4'	S 21°40.5'	216°29.8'	N 18°42.1'
7	318°30.9'	S 15°25.1'	16°41.2'	S 22°38.7'	349°03.7'	S 21°40.5'	231°30.6'	N 18°42.6'
8	333°30.4'	S 15°24.3'	31°43.5'	S 22°38.7'	4°06.0'	S 21°40.4'	246°31.4'	N 18°43.1'
9	348°29.8'	S 15°23.5'	46°45.8'	S 22°38.7'	19°08.3'	S 21°40.4'	261°32.2'	N 18°43.5'
10	3°29.3'	S 15°22.7'	61°48.0'	S 22°38.7'	34°10.6'	S 21°40.4'	276°32.9'	N 18°44.0'
11	18°28.8'	S 15°21.9'	76°50.3'	S 22°38.7'	49°12.9'	S 21°40.4'	291°33.7'	N 18°44.5'
12	33°28.2'	S 15°21.1'	91°52.5'	S 22°38.7'	64°15.1'	S 21°40.3'	306°34.5'	N 18°44.9'
13	48°27.7'	S 15°20.3'	106°54.8'	S 22°38.8'	79°17.4'	S 21°40.3'	321°35.2'	N 18°45.4'
14	63°27.2'	S 15°19.5'	121°57.1'	S 22°38.8'	94°19.7'	S 21°40.3'	336°36.0'	N 18°45.8'
15	78°26.6'	S 15°18.7'	136°59.3'	S 22°38.8'	109°22.0'	S 21°40.3'	351°36.8'	N 18°46.3'
16	93°26.1'	S 15°17.9'	152°01.6'	S 22°38.8'	124°24.3'	S 21°40.3'	6°37.6'	N 18°46.8'
17	108°25.6'	S 15°17.2'	167°03.9'	S 22°38.8'	139°26.6'	S 21°40.2'	21°38.3'	N 18°47.2'
18	123°25.0'	S 15°16.4'	182°06.1'	S 22°38.8'	154°28.9'	S 21°40.2'	36°39.1'	N 18°47.7'
19	138°24.5'	S 15°15.6'	197°08.4'	S 22°38.8'	169°31.1'	S 21°40.2'	51°39.9'	N 18°48.1'
20	153°24.0'	S 15°14.8'	212°10.7'	S 22°38.8'	184°33.4'	S 21°40.2'	66°40.6'	N 18°48.6'
21	168°23.5'	S 15°14.0'	227°13.0'	S 22°38.8'	199°35.7'	S 21°40.1'	81°41.4'	N 18°49.1'
22	183°22.9'	S 15°13.2'	242°15.2'	S 22°38.8'	214°38.0'	S 21°40.1'	96°42.2'	N 18°49.5'
23	198°22.4'	S 15°12.4'	257°17.5'	S 22°38.8'	229°40.3'	S 21°40.1'	111°43.0'	N 18°50.0'

Mon Mar 18, 2019 UTC

UTC	Venus -3.9		Jupiter -2.0		Saturn +0.6		Mars +1.3	
	v = -0.5' d = 0.8'		v = 2.3' d = 0.0'		v = 2.3' d = 0.0'		v = 0.8' d = 0.5'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	213°21.9'	S 15°11.5'	272°19.8'	S 22°38.8'	244°42.6'	S 21°40.1'	126°43.7'	N 18°50.4'
1	228°21.4'	S 15°10.7'	287°22.0'	S 22°38.9'	259°44.9'	S 21°40.1'	141°44.5'	N 18°50.9'
2	243°20.8'	S 15°09.9'	302°24.3'	S 22°38.9'	274°47.2'	S 21°40.0'	156°45.3'	N 18°51.4'
3	258°20.3'	S 15°09.1'	317°26.6'	S 22°38.9'	289°49.4'	S 21°40.0'	171°46.0'	N 18°51.8'
4	273°19.8'	S 15°08.3'	332°28.8'	S 22°38.9'	304°51.7'	S 21°40.0'	186°46.8'	N 18°52.3'
5	288°19.3'	S 15°07.5'	347°31.1'	S 22°38.9'	319°54.0'	S 21°40.0'	201°47.6'	N 18°52.7'
6	303°18.7'	S 15°06.7'	2°33.4'	S 22°38.9'	334°56.3'	S 21°40.0'	216°48.3'	N 18°53.2'
7	318°18.2'	S 15°05.9'	17°35.7'	S 22°38.9'	349°58.6'	S 21°39.9'	231°49.1'	N 18°53.6'
8	333°17.7'	S 15°05.1'	32°37.9'	S 22°38.9'	5°00.9'	S 21°39.9'	246°49.9'	N 18°54.1'
9	348°17.2'	S 15°04.3'	47°40.2'	S 22°38.9'	20°03.2'	S 21°39.9'	261°50.7'	N 18°54.6'
10	3°16.6'	S 15°03.5'	62°42.5'	S 22°38.9'	35°05.5'	S 21°39.9'	276°51.4'	N 18°55.0'
11	18°16.1'	S 15°02.7'	77°44.7'	S 22°38.9'	50°07.8'	S 21°39.8'	291°52.2'	N 18°55.5'
12	33°15.6'	S 15°01.9'	92°47.0'	S 22°38.9'	65°10.0'	S 21°39.8'	306°53.0'	N 18°55.9'
13	48°15.1'	S 15°01.0'	107°49.3'	S 22°38.9'	80°12.3'	S 21°39.8'	321°53.7'	N 18°56.4'
14	63°14.5'	S 15°00.2'	122°51.6'	S 22°39.0'	95°14.6'	S 21°39.8'	336°54.5'	N 18°56.8'
15	78°14.0'	S 14°59.4'	137°53.8'	S 22°39.0'	110°16.9'	S 21°39.8'	351°55.3'	N 18°57.3'
16	93°13.5'	S 14°58.6'	152°56.1'	S 22°39.0'	125°19.2'	S 21°39.7'	6°56.0'	N 18°57.8'
17	108°13.0'	S 14°57.8'	167°58.4'	S 22°39.0'	140°21.5'	S 21°39.7'	21°56.8'	N 18°58.2'
18	123°12.5'	S 14°57.0'	183°00.7'	S 22°39.0'	155°23.8'	S 21°39.7'	36°57.6'	N 18°58.7'
19	138°11.9'	S 14°56.2'	198°02.9'	S 22°39.0'	170°26.1'	S 21°39.7'	51°58.3'	N 18°59.1'
20	153°11.4'	S 14°55.3'	213°05.2'	S 22°39.0'	185°28.4'	S 21°39.7'	66°59.1'	N 18°59.6'
21	168°10.9'	S 14°54.5'	228°07.5'	S 22°39.0'	200°30.7'	S 21°39.6'	81°59.9'	N 19°00.0'
22	183°10.4'	S 14°53.7'	243°09.8'	S 22°39.0'	215°32.9'	S 21°39.6'	97°00.7'	N 19°00.5'
23	198°09.9'	S 14°52.9'	258°12.1'	S 22°39.0'	230°35.2'	S 21°39.6'	112°01.4'	N 19°00.9'

Tue Mar 19, 2019 UTC

UTC	Venus -3.9 v = -0.5' d = 0.8'		Jupiter -2.0 v = 2.3' d = 0.0'		Saturn +0.6 v = 2.3' d = 0.0'		Mars +1.4 v = 0.8' d = 0.4'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	213°09.3'	S 14°52.1'	273°14.3'	S 22°39.0'	245°37.5'	S 21°39.6'	127°02.2'	N 19°01.4'
1	228°08.8'	S 14°51.2'	288°16.6'	S 22°39.0'	260°39.8'	S 21°39.6'	142°03.0'	N 19°01.8'
2	243°08.3'	S 14°50.4'	303°18.9'	S 22°39.0'	275°42.1'	S 21°39.5'	157°03.7'	N 19°02.3'
3	258°07.8'	S 14°49.6'	318°21.2'	S 22°39.1'	290°44.4'	S 21°39.5'	172°04.5'	N 19°02.7'
4	273°07.3'	S 14°48.8'	333°23.4'	S 22°39.1'	305°46.7'	S 21°39.5'	187°05.3'	N 19°03.2'
5	288°06.8'	S 14°47.9'	348°25.7'	S 22°39.1'	320°49.0'	S 21°39.5'	202°06.0'	N 19°03.6'
6	303°06.2'	S 14°47.1'	3°28.0'	S 22°39.1'	335°51.3'	S 21°39.4'	217°06.8'	N 19°04.1'
7	318°05.7'	S 14°46.3'	18°30.3'	S 22°39.1'	350°53.6'	S 21°39.4'	232°07.6'	N 19°04.5'
8	333°05.2'	S 14°45.5'	33°32.6'	S 22°39.1'	5°55.9'	S 21°39.4'	247°08.3'	N 19°05.0'
9	348°04.7'	S 14°44.6'	48°34.8'	S 22°39.1'	20°58.2'	S 21°39.4'	262°09.1'	N 19°05.4'
10	3°04.2'	S 14°43.8'	63°37.1'	S 22°39.1'	36°00.4'	S 21°39.4'	277°09.9'	N 19°05.9'
11	18°03.7'	S 14°43.0'	78°39.4'	S 22°39.1'	51°02.7'	S 21°39.3'	292°10.6'	N 19°06.3'
12	33°03.1'	S 14°42.2'	93°41.7'	S 22°39.1'	66°05.0'	S 21°39.3'	307°11.4'	N 19°06.8'
13	48°02.6'	S 14°41.3'	108°44.0'	S 22°39.1'	81°07.3'	S 21°39.3'	322°12.2'	N 19°07.2'
14	63°02.1'	S 14°40.5'	123°46.2'	S 22°39.1'	96°09.6'	S 21°39.3'	337°12.9'	N 19°07.7'
15	78°01.6'	S 14°39.7'	138°48.5'	S 22°39.1'	111°11.9'	S 21°39.3'	352°13.7'	N 19°08.1'
16	93°01.1'	S 14°38.8'	153°50.8'	S 22°39.2'	126°14.2'	S 21°39.2'	7°14.5'	N 19°08.6'
17	108°00.6'	S 14°38.0'	168°53.1'	S 22°39.2'	141°16.5'	S 21°39.2'	22°15.2'	N 19°09.0'
18	123°00.1'	S 14°37.2'	183°55.4'	S 22°39.2'	156°18.8'	S 21°39.2'	37°16.0'	N 19°09.5'
19	137°59.5'	S 14°36.3'	198°57.7'	S 22°39.2'	171°21.1'	S 21°39.2'	52°16.8'	N 19°09.9'
20	152°59.0'	S 14°35.5'	213°59.9'	S 22°39.2'	186°23.4'	S 21°39.2'	67°17.5'	N 19°10.4'
21	167°58.5'	S 14°34.7'	229°02.2'	S 22°39.2'	201°25.7'	S 21°39.1'	82°18.3'	N 19°10.8'
22	182°58.0'	S 14°33.8'	244°04.5'	S 22°39.2'	216°28.0'	S 21°39.1'	97°19.1'	N 19°11.3'
23	197°57.5'	S 14°33.0'	259°06.8'	S 22°39.2'	231°30.3'	S 21°39.1'	112°19.8'	N 19°11.7'

Wed Mar 20, 2019 UTC

UTC	Venus -3.9 v = -0.5' d = 0.8'		Jupiter -2.0 v = 2.3' d = 0.0'		Saturn +0.6 v = 2.3' d = 0.0'		Mars +1.4 v = 0.8' d = 0.4'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	212°57.0'	S 14°32.2'	274°09.1'	S 22°39.2'	246°32.6'	S 21°39.1'	127°20.6'	N 19°12.2'
1	227°56.5'	S 14°31.3'	289°11.4'	S 22°39.2'	261°34.9'	S 21°39.0'	142°21.4'	N 19°12.6'
2	242°56.0'	S 14°30.5'	304°13.7'	S 22°39.2'	276°37.2'	S 21°39.0'	157°22.1'	N 19°13.1'
3	257°55.5'	S 14°29.6'	319°15.9'	S 22°39.2'	291°39.4'	S 21°39.0'	172°22.9'	N 19°13.5'
4	272°55.0'	S 14°28.8'	334°18.2'	S 22°39.2'	306°41.7'	S 21°39.0'	187°23.6'	N 19°14.0'
5	287°54.4'	S 14°28.0'	349°20.5'	S 22°39.2'	321°44.0'	S 21°39.0'	202°24.4'	N 19°14.4'
6	302°53.9'	S 14°27.1'	4°22.8'	S 22°39.3'	336°46.3'	S 21°38.9'	217°25.2'	N 19°14.8'
7	317°53.4'	S 14°26.3'	19°25.1'	S 22°39.3'	351°48.6'	S 21°38.9'	232°25.9'	N 19°15.3'
8	332°52.9'	S 14°25.4'	34°27.4'	S 22°39.3'	6°50.9'	S 21°38.9'	247°26.7'	N 19°15.7'
9	347°52.4'	S 14°24.6'	49°29.7'	S 22°39.3'	21°53.2'	S 21°38.9'	262°27.5'	N 19°16.2'
10	2°51.9'	S 14°23.7'	64°31.9'	S 22°39.3'	36°55.5'	S 21°38.9'	277°28.2'	N 19°16.6'
11	17°51.4'	S 14°22.9'	79°34.2'	S 22°39.3'	51°57.8'	S 21°38.8'	292°29.0'	N 19°17.1'
12	32°50.9'	S 14°22.0'	94°36.5'	S 22°39.3'	67°00.1'	S 21°38.8'	307°29.8'	N 19°17.5'
13	47°50.4'	S 14°21.2'	109°38.8'	S 22°39.3'	82°02.4'	S 21°38.8'	322°30.5'	N 19°17.9'
14	62°49.9'	S 14°20.4'	124°41.1'	S 22°39.3'	97°04.7'	S 21°38.8'	337°31.3'	N 19°18.4'
15	77°49.4'	S 14°19.5'	139°43.4'	S 22°39.3'	112°07.0'	S 21°38.8'	352°32.1'	N 19°18.8'
16	92°48.9'	S 14°18.7'	154°45.7'	S 22°39.3'	127°09.3'	S 21°38.7'	7°32.8'	N 19°19.3'
17	107°48.4'	S 14°17.8'	169°48.0'	S 22°39.3'	142°11.6'	S 21°38.7'	22°33.6'	N 19°19.7'
18	122°47.9'	S 14°17.0'	184°50.3'	S 22°39.3'	157°13.9'	S 21°38.7'	37°34.3'	N 19°20.2'
19	137°47.4'	S 14°16.1'	199°52.6'	S 22°39.3'	172°16.2'	S 21°38.7'	52°35.1'	N 19°20.6'
20	152°46.9'	S 14°15.2'	214°54.8'	S 22°39.4'	187°18.5'	S 21°38.7'	67°35.9'	N 19°21.0'
21	167°46.3'	S 14°14.4'	229°57.1'	S 22°39.4'	202°20.8'	S 21°38.6'	82°36.6'	N 19°21.5'
22	182°45.8'	S 14°13.5'	244°59.4'	S 22°39.4'	217°23.1'	S 21°38.6'	97°37.4'	N 19°21.9'
23	197°45.3'	S 14°12.7'	260°01.7'	S 22°39.4'	232°25.4'	S 21°38.6'	112°38.2'	N 19°22.4'

Thu Mar 21, 2019 UTC

UTC	Venus -3.9 v = -0.5' d = 0.9'		Jupiter -2.0 v = 2.3' d = 0.0'		Saturn +0.6 v = 2.3' d = 0.0'		Mars +1.4 v = 0.8' d = 0.4'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	212°44.8'	S 14°11.8'	275°04.0'	S 22°39.4'	247°27.7'	S 21°38.6'	127°38.9'	N 19°22.8'
1	227°44.3'	S 14°11.0'	290°06.3'	S 22°39.4'	262°30.0'	S 21°38.6'	142°39.7'	N 19°23.2'
2	242°43.8'	S 14°10.1'	305°08.6'	S 22°39.4'	277°32.3'	S 21°38.5'	157°40.4'	N 19°23.7'
3	257°43.3'	S 14°09.3'	320°10.9'	S 22°39.4'	292°34.6'	S 21°38.5'	172°41.2'	N 19°24.1'
4	272°42.8'	S 14°08.4'	335°13.2'	S 22°39.4'	307°36.9'	S 21°38.5'	187°42.0'	N 19°24.6'
5	287°42.3'	S 14°07.6'	350°15.5'	S 22°39.4'	322°39.2'	S 21°38.5'	202°42.7'	N 19°25.0'
6	302°41.8'	S 14°06.7'	5°17.8'	S 22°39.4'	337°41.5'	S 21°38.5'	217°43.5'	N 19°25.4'
7	317°41.3'	S 14°05.8'	20°20.1'	S 22°39.4'	352°43.8'	S 21°38.4'	232°44.3'	N 19°25.9'
8	332°40.8'	S 14°05.0'	35°22.4'	S 22°39.4'	7°46.1'	S 21°38.4'	247°45.0'	N 19°26.3'
9	347°40.3'	S 14°04.1'	50°24.7'	S 22°39.4'	22°48.4'	S 21°38.4'	262°45.8'	N 19°26.7'
10	2°39.8'	S 14°03.2'	65°27.0'	S 22°39.4'	37°50.7'	S 21°38.4'	277°46.5'	N 19°27.2'
11	17°39.3'	S 14°02.4'	80°29.3'	S 22°39.5'	52°53.0'	S 21°38.4'	292°47.3'	N 19°27.6'
12	32°38.8'	S 14°01.5'	95°31.6'	S 22°39.5'	67°55.3'	S 21°38.3'	307°48.1'	N 19°28.1'
13	47°38.3'	S 14°00.7'	110°33.9'	S 22°39.5'	82°57.6'	S 21°38.3'	322°48.8'	N 19°28.5'
14	62°37.8'	S 13°59.8'	125°36.2'	S 22°39.5'	97°59.9'	S 21°38.3'	337°49.6'	N 19°28.9'
15	77°37.3'	S 13°58.9'	140°38.4'	S 22°39.5'	113°02.2'	S 21°38.3'	352°50.3'	N 19°29.4'
16	92°36.8'	S 13°58.1'	155°40.7'	S 22°39.5'	128°04.5'	S 21°38.3'	7°51.1'	N 19°29.8'
17	107°36.3'	S 13°57.2'	170°43.0'	S 22°39.5'	143°06.8'	S 21°38.2'	22°51.9'	N 19°30.2'
18	122°35.8'	S 13°56.3'	185°45.3'	S 22°39.5'	158°09.1'	S 21°38.2'	37°52.6'	N 19°30.7'
19	137°35.4'	S 13°55.5'	200°47.6'	S 22°39.5'	173°11.4'	S 21°38.2'	52°53.4'	N 19°31.1'
20	152°34.9'	S 13°54.6'	215°49.9'	S 22°39.5'	188°13.7'	S 21°38.2'	67°54.2'	N 19°31.5'
21	167°34.4'	S 13°53.7'	230°52.2'	S 22°39.5'	203°16.0'	S 21°38.2'	82°54.9'	N 19°32.0'
22	182°33.9'	S 13°52.9'	245°54.5'	S 22°39.5'	218°18.3'	S 21°38.1'	97°55.7'	N 19°32.4'
23	197°33.4'	S 13°52.0'	260°56.8'	S 22°39.5'	233°20.6'	S 21°38.1'	112°56.4'	N 19°32.8'

Fri Mar 22, 2019 UTC

UTC	Venus -3.9 v = -0.5' d = 0.9'		Jupiter -2.0 v = 2.3' d = 0.0'		Saturn +0.6 v = 2.3' d = 0.0'		Mars +1.4 v = 0.8' d = 0.4'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	212°32.9'	S 13°51.1'	275°59.1'	S 22°39.5'	248°22.9'	S 21°38.1'	127°57.2'	N 19°33.3'
1	227°32.4'	S 13°50.2'	291°01.4'	S 22°39.5'	263°25.2'	S 21°38.1'	142°58.0'	N 19°33.7'
2	242°31.9'	S 13°49.4'	306°03.7'	S 22°39.5'	278°27.5'	S 21°38.1'	157°58.7'	N 19°34.1'
3	257°31.4'	S 13°48.5'	321°06.0'	S 22°39.6'	293°29.8'	S 21°38.0'	172°59.5'	N 19°34.6'
4	272°30.9'	S 13°47.6'	336°08.3'	S 22°39.6'	308°32.1'	S 21°38.0'	188°00.2'	N 19°35.0'
5	287°30.4'	S 13°46.7'	351°10.6'	S 22°39.6'	323°34.4'	S 21°38.0'	203°01.0'	N 19°35.4'
6	302°29.9'	S 13°45.9'	6°13.0'	S 22°39.6'	338°36.7'	S 21°38.0'	218°01.7'	N 19°35.9'
7	317°29.4'	S 13°45.0'	21°15.3'	S 22°39.6'	353°39.0'	S 21°38.0'	233°02.5'	N 19°36.3'
8	332°28.9'	S 13°44.1'	36°17.6'	S 22°39.6'	8°41.3'	S 21°37.9'	248°03.3'	N 19°36.7'
9	347°28.4'	S 13°43.2'	51°19.9'	S 22°39.6'	23°43.6'	S 21°37.9'	263°04.0'	N 19°37.2'
10	2°27.9'	S 13°42.4'	66°22.2'	S 22°39.6'	38°45.9'	S 21°37.9'	278°04.8'	N 19°37.6'
11	17°27.5'	S 13°41.5'	81°24.5'	S 22°39.6'	53°48.2'	S 21°37.9'	293°05.5'	N 19°38.0'
12	32°27.0'	S 13°40.6'	96°26.8'	S 22°39.6'	68°50.5'	S 21°37.9'	308°06.3'	N 19°38.4'
13	47°26.5'	S 13°39.7'	111°29.1'	S 22°39.6'	83°52.8'	S 21°37.8'	323°07.1'	N 19°38.9'
14	62°26.0'	S 13°38.8'	126°31.4'	S 22°39.6'	98°55.1'	S 21°37.8'	338°07.8'	N 19°39.3'
15	77°25.5'	S 13°38.0'	141°33.7'	S 22°39.6'	113°57.4'	S 21°37.8'	353°08.6'	N 19°39.7'
16	92°25.0'	S 13°37.1'	156°36.0'	S 22°39.6'	128°59.7'	S 21°37.8'	8°09.3'	N 19°40.2'
17	107°24.5'	S 13°36.2'	171°38.3'	S 22°39.6'	144°02.0'	S 21°37.8'	23°10.1'	N 19°40.6'
18	122°24.0'	S 13°35.3'	186°40.6'	S 22°39.6'	159°04.3'	S 21°37.7'	38°10.9'	N 19°41.0'
19	137°23.5'	S 13°34.4'	201°42.9'	S 22°39.7'	174°06.7'	S 21°37.7'	53°11.6'	N 19°41.4'
20	152°23.1'	S 13°33.5'	216°45.2'	S 22°39.7'	189°09.0'	S 21°37.7'	68°12.4'	N 19°41.9'
21	167°22.6'	S 13°32.7'	231°47.5'	S 22°39.7'	204°11.3'	S 21°37.7'	83°13.1'	N 19°42.3'
22	182°22.1'	S 13°31.8'	246°49.8'	S 22°39.7'	219°13.6'	S 21°37.7'	98°13.9'	N 19°42.7'
23	197°21.6'	S 13°30.9'	261°52.1'	S 22°39.7'	234°15.9'	S 21°37.6'	113°14.6'	N 19°43.1'

Sat Mar 23, 2019 UTC

UTC	Venus -3.9		Jupiter -2.0		Saturn +0.6		Mars +1.4	
	v = -0.5' d = 0.9'		v = 2.3' d = 0.0'		v = 2.3' d = 0.0'		v = 0.8' d = 0.4'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	212°21.1'	S 13°30.0'	276°54.5'	S 22°39.7'	249°18.2'	S 21°37.6'	128°15.4'	N 19°43.6'
1	227°20.6'	S 13°29.1'	291°56.8'	S 22°39.7'	264°20.5'	S 21°37.6'	143°16.2'	N 19°44.0'
2	242°20.1'	S 13°28.2'	306°59.1'	S 22°39.7'	279°22.8'	S 21°37.6'	158°16.9'	N 19°44.4'
3	257°19.6'	S 13°27.3'	322°01.4'	S 22°39.7'	294°25.1'	S 21°37.6'	173°17.7'	N 19°44.9'
4	272°19.2'	S 13°26.4'	337°03.7'	S 22°39.7'	309°27.4'	S 21°37.5'	188°18.4'	N 19°45.3'
5	287°18.7'	S 13°25.6'	352°06.0'	S 22°39.7'	324°29.7'	S 21°37.5'	203°19.2'	N 19°45.7'
6	302°18.2'	S 13°24.7'	7°08.3'	S 22°39.7'	339°32.0'	S 21°37.5'	218°19.9'	N 19°46.1'
7	317°17.7'	S 13°23.8'	22°10.6'	S 22°39.7'	354°34.3'	S 21°37.5'	233°20.7'	N 19°46.6'
8	332°17.2'	S 13°22.9'	37°12.9'	S 22°39.7'	9°36.6'	S 21°37.5'	248°21.5'	N 19°47.0'
9	347°16.7'	S 13°22.0'	52°15.2'	S 22°39.7'	24°38.9'	S 21°37.4'	263°22.2'	N 19°47.4'
10	2°16.3'	S 13°21.1'	67°17.6'	S 22°39.7'	39°41.2'	S 21°37.4'	278°23.0'	N 19°47.8'
11	17°15.8'	S 13°20.2'	82°19.9'	S 22°39.7'	54°43.6'	S 21°37.4'	293°23.7'	N 19°48.2'
12	32°15.3'	S 13°19.3'	97°22.2'	S 22°39.8'	69°45.9'	S 21°37.4'	308°24.5'	N 19°48.7'
13	47°14.8'	S 13°18.4'	112°24.5'	S 22°39.8'	84°48.2'	S 21°37.4'	323°25.2'	N 19°49.1'
14	62°14.3'	S 13°17.5'	127°26.8'	S 22°39.8'	99°50.5'	S 21°37.3'	338°26.0'	N 19°49.5'
15	77°13.8'	S 13°16.6'	142°29.1'	S 22°39.8'	114°52.8'	S 21°37.3'	353°26.7'	N 19°49.9'
16	92°13.4'	S 13°15.7'	157°31.4'	S 22°39.8'	129°55.1'	S 21°37.3'	8°27.5'	N 19°50.4'
17	107°12.9'	S 13°14.8'	172°33.7'	S 22°39.8'	144°57.4'	S 21°37.3'	23°28.3'	N 19°50.8'
18	122°12.4'	S 13°13.9'	187°36.1'	S 22°39.8'	159°59.7'	S 21°37.3'	38°29.0'	N 19°51.2'
19	137°11.9'	S 13°13.0'	202°38.4'	S 22°39.8'	175°02.0'	S 21°37.3'	53°29.8'	N 19°51.6'
20	152°11.4'	S 13°12.1'	217°40.7'	S 22°39.8'	190°04.3'	S 21°37.2'	68°30.5'	N 19°52.0'
21	167°11.0'	S 13°11.2'	232°43.0'	S 22°39.8'	205°06.6'	S 21°37.2'	83°31.3'	N 19°52.5'
22	182°10.5'	S 13°10.3'	247°45.3'	S 22°39.8'	220°08.9'	S 21°37.2'	98°32.0'	N 19°52.9'
23	197°10.0'	S 13°09.4'	262°47.6'	S 22°39.8'	235°11.3'	S 21°37.2'	113°32.8'	N 19°53.3'

Sun Mar 24, 2019 UTC

UTC	Venus -3.9		Jupiter -2.0		Saturn +0.6		Mars +1.4	
	v = -0.5' d = 0.9'		v = 2.3' d = 0.0'		v = 2.3' d = 0.0'		v = 0.8' d = 0.4'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	212°09.5'	S 13°08.5'	277°50.0'	S 22°39.8'	250°13.6'	S 21°37.2'	128°33.5'	N 19°53.7'
1	227°09.0'	S 13°07.6'	292°52.3'	S 22°39.8'	265°15.9'	S 21°37.1'	143°34.3'	N 19°54.1'
2	242°08.6'	S 13°06.7'	307°54.6'	S 22°39.8'	280°18.2'	S 21°37.1'	158°35.0'	N 19°54.6'
3	257°08.1'	S 13°05.8'	322°56.9'	S 22°39.8'	295°20.5'	S 21°37.1'	173°35.8'	N 19°55.0'
4	272°07.6'	S 13°04.9'	337°59.2'	S 22°39.8'	310°22.8'	S 21°37.1'	188°36.6'	N 19°55.4'
5	287°07.1'	S 13°04.0'	353°01.5'	S 22°39.8'	325°25.1'	S 21°37.1'	203°37.3'	N 19°55.8'
6	302°06.7'	S 13°03.1'	8°03.9'	S 22°39.9'	340°27.4'	S 21°37.0'	218°38.1'	N 19°56.2'
7	317°06.2'	S 13°02.2'	23°06.2'	S 22°39.9'	355°29.7'	S 21°37.0'	233°38.8'	N 19°56.7'
8	332°05.7'	S 13°01.3'	38°08.5'	S 22°39.9'	10°32.0'	S 21°37.0'	248°39.6'	N 19°57.1'
9	347°05.2'	S 13°00.3'	53°10.8'	S 22°39.9'	25°34.4'	S 21°37.0'	263°40.3'	N 19°57.5'
10	2°04.8'	S 12°59.4'	68°13.1'	S 22°39.9'	40°36.7'	S 21°37.0'	278°41.1'	N 19°57.9'
11	17°04.3'	S 12°58.5'	83°15.5'	S 22°39.9'	55°39.0'	S 21°36.9'	293°41.8'	N 19°58.3'
12	32°03.8'	S 12°57.6'	98°17.8'	S 22°39.9'	70°41.3'	S 21°36.9'	308°42.6'	N 19°58.7'
13	47°03.3'	S 12°56.7'	113°20.1'	S 22°39.9'	85°43.6'	S 21°36.9'	323°43.3'	N 19°59.2'
14	62°02.9'	S 12°55.8'	128°22.4'	S 22°39.9'	100°45.9'	S 21°36.9'	338°44.1'	N 19°59.6'
15	77°02.4'	S 12°54.9'	143°24.7'	S 22°39.9'	115°48.2'	S 21°36.9'	353°44.8'	N 19°60.0'
16	92°01.9'	S 12°54.0'	158°27.1'	S 22°39.9'	130°50.5'	S 21°36.9'	8°45.6'	N 20°00.4'
17	107°01.4'	S 12°53.1'	173°29.4'	S 22°39.9'	145°52.8'	S 21°36.8'	23°46.4'	N 20°00.8'
18	122°01.0'	S 12°52.1'	188°31.7'	S 22°39.9'	160°55.2'	S 21°36.8'	38°47.1'	N 20°01.2'
19	137°00.5'	S 12°51.2'	203°34.0'	S 22°39.9'	175°57.5'	S 21°36.8'	53°47.9'	N 20°01.6'
20	152°00.0'	S 12°50.3'	218°36.4'	S 22°39.9'	190°59.8'	S 21°36.8'	68°48.6'	N 20°02.1'
21	166°59.5'	S 12°49.4'	233°38.7'	S 22°39.9'	206°02.1'	S 21°36.8'	83°49.4'	N 20°02.5'
22	181°59.1'	S 12°48.5'	248°41.0'	S 22°39.9'	221°04.4'	S 21°36.7'	98°50.1'	N 20°02.9'
23	196°58.6'	S 12°47.6'	263°43.3'	S 22°39.9'	236°06.7'	S 21°36.7'	113°50.9'	N 20°03.3'

Mon Mar 25, 2019 UTC

UTC	Venus -3.9		Jupiter -2.0		Saturn +0.6		Mars +1.4	
	v = -0.5' d = 0.9'		v = 2.3' d = 0.0'		v = 2.3' d = 0.0'		v = 0.8' d = 0.4'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	211°58.1'	S 12°46.6'	278°45.6'	S 22°40.0'	251°09.0'	S 21°36.7'	128°51.6'	N 20°03.7'
1	226°57.7'	S 12°45.7'	293°48.0'	S 22°40.0'	266°11.3'	S 21°36.7'	143°52.4'	N 20°04.1'
2	241°57.2'	S 12°44.8'	308°50.3'	S 22°40.0'	281°13.7'	S 21°36.7'	158°53.1'	N 20°04.5'
3	256°56.7'	S 12°43.9'	323°52.6'	S 22°40.0'	296°16.0'	S 21°36.6'	173°53.9'	N 20°04.9'
4	271°56.3'	S 12°43.0'	338°54.9'	S 22°40.0'	311°18.3'	S 21°36.6'	188°54.6'	N 20°05.4'
5	286°55.8'	S 12°42.0'	353°57.3'	S 22°40.0'	326°20.6'	S 21°36.6'	203°55.4'	N 20°05.8'
6	301°55.3'	S 12°41.1'	8°59.6'	S 22°40.0'	341°22.9'	S 21°36.6'	218°56.1'	N 20°06.2'
7	316°54.8'	S 12°40.2'	24°01.9'	S 22°40.0'	356°25.2'	S 21°36.6'	233°56.9'	N 20°06.6'
8	331°54.4'	S 12°39.3'	39°04.3'	S 22°40.0'	11°27.5'	S 21°36.6'	248°57.6'	N 20°07.0'
9	346°53.9'	S 12°38.3'	54°06.6'	S 22°40.0'	26°29.9'	S 21°36.5'	263°58.4'	N 20°07.4'
10	1°53.4'	S 12°37.4'	69°08.9'	S 22°40.0'	41°32.2'	S 21°36.5'	278°59.1'	N 20°07.8'
11	16°53.0'	S 12°36.5'	84°11.2'	S 22°40.0'	56°34.5'	S 21°36.5'	293°59.9'	N 20°08.2'
12	31°52.5'	S 12°35.6'	99°13.6'	S 22°40.0'	71°36.8'	S 21°36.5'	309°00.6'	N 20°08.6'
13	46°52.0'	S 12°34.6'	114°15.9'	S 22°40.0'	86°39.1'	S 21°36.5'	324°01.4'	N 20°09.0'
14	61°51.6'	S 12°33.7'	129°18.2'	S 22°40.0'	101°41.4'	S 21°36.4'	339°02.1'	N 20°09.5'
15	76°51.1'	S 12°32.8'	144°20.6'	S 22°40.0'	116°43.7'	S 21°36.4'	354°02.9'	N 20°09.9'
16	91°50.6'	S 12°31.9'	159°22.9'	S 22°40.0'	131°46.1'	S 21°36.4'	9°03.6'	N 20°10.3'
17	106°50.2'	S 12°30.9'	174°25.2'	S 22°40.0'	146°48.4'	S 21°36.4'	24°04.4'	N 20°10.7'
18	121°49.7'	S 12°30.0'	189°27.5'	S 22°40.0'	161°50.7'	S 21°36.4'	39°05.1'	N 20°11.1'
19	136°49.2'	S 12°29.1'	204°29.9'	S 22°40.0'	176°53.0'	S 21°36.4'	54°05.9'	N 20°11.5'
20	151°48.8'	S 12°28.1'	219°32.2'	S 22°40.1'	191°55.3'	S 21°36.3'	69°06.6'	N 20°11.9'
21	166°48.3'	S 12°27.2'	234°34.5'	S 22°40.1'	206°57.6'	S 21°36.3'	84°07.4'	N 20°12.3'
22	181°47.9'	S 12°26.3'	249°36.9'	S 22°40.1'	221°60.0'	S 21°36.3'	99°08.1'	N 20°12.7'
23	196°47.4'	S 12°25.3'	264°39.2'	S 22°40.1'	237°02.3'	S 21°36.3'	114°08.9'	N 20°13.1'

Tue Mar 26, 2019 UTC

UTC	Venus -3.9		Jupiter -2.1		Saturn +0.6		Mars +1.4	
	v = -0.5' d = 0.9'		v = 2.3' d = 0.0'		v = 2.3' d = 0.0'		v = 0.7' d = 0.4'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	211°46.9'	S 12°24.4'	279°41.5'	S 22°40.1'	252°04.6'	S 21°36.3'	129°09.6'	N 20°13.5'
1	226°46.5'	S 12°23.5'	294°43.9'	S 22°40.1'	267°06.9'	S 21°36.2'	144°10.4'	N 20°13.9'
2	241°46.0'	S 12°22.5'	309°46.2'	S 22°40.1'	282°09.2'	S 21°36.2'	159°11.1'	N 20°14.3'
3	256°45.5'	S 12°21.6'	324°48.5'	S 22°40.1'	297°11.5'	S 21°36.2'	174°11.9'	N 20°14.7'
4	271°45.1'	S 12°20.7'	339°50.9'	S 22°40.1'	312°13.9'	S 21°36.2'	189°12.6'	N 20°15.2'
5	286°44.6'	S 12°19.7'	354°53.2'	S 22°40.1'	327°16.2'	S 21°36.2'	204°13.4'	N 20°15.6'
6	301°44.2'	S 12°18.8'	9°55.5'	S 22°40.1'	342°18.5'	S 21°36.1'	219°14.1'	N 20°16.0'
7	316°43.7'	S 12°17.9'	24°57.9'	S 22°40.1'	357°20.8'	S 21°36.1'	234°14.9'	N 20°16.4'
8	331°43.2'	S 12°16.9'	40°00.2'	S 22°40.1'	12°23.1'	S 21°36.1'	249°15.6'	N 20°16.8'
9	346°42.8'	S 12°16.0'	55°02.5'	S 22°40.1'	27°25.5'	S 21°36.1'	264°16.4'	N 20°17.2'
10	1°42.3'	S 12°15.0'	70°04.9'	S 22°40.1'	42°27.8'	S 21°36.1'	279°17.1'	N 20°17.6'
11	16°41.9'	S 12°14.1'	85°07.2'	S 22°40.1'	57°30.1'	S 21°36.1'	294°17.9'	N 20°18.0'
12	31°41.4'	S 12°13.2'	100°09.5'	S 22°40.1'	72°32.4'	S 21°36.0'	309°18.6'	N 20°18.4'
13	46°40.9'	S 12°12.2'	115°11.9'	S 22°40.1'	87°34.7'	S 21°36.0'	324°19.4'	N 20°18.8'
14	61°40.5'	S 12°11.3'	130°14.2'	S 22°40.1'	102°37.1'	S 21°36.0'	339°20.1'	N 20°19.2'
15	76°40.0'	S 12°10.3'	145°16.6'	S 22°40.1'	117°39.4'	S 21°36.0'	354°20.9'	N 20°19.6'
16	91°39.6'	S 12°09.4'	160°18.9'	S 22°40.1'	132°41.7'	S 21°36.0'	9°21.6'	N 20°20.0'
17	106°39.1'	S 12°08.4'	175°21.2'	S 22°40.2'	147°44.0'	S 21°36.0'	24°22.4'	N 20°20.4'
18	121°38.6'	S 12°07.5'	190°23.6'	S 22°40.2'	162°46.3'	S 21°35.9'	39°23.1'	N 20°20.8'
19	136°38.2'	S 12°06.6'	205°25.9'	S 22°40.2'	177°48.6'	S 21°35.9'	54°23.8'	N 20°21.2'
20	151°37.7'	S 12°05.6'	220°28.2'	S 22°40.2'	192°51.0'	S 21°35.9'	69°24.6'	N 20°21.6'
21	166°37.3'	S 12°04.7'	235°30.6'	S 22°40.2'	207°53.3'	S 21°35.9'	84°25.3'	N 20°22.0'
22	181°36.8'	S 12°03.7'	250°32.9'	S 22°40.2'	222°55.6'	S 21°35.9'	99°26.1'	N 20°22.4'
23	196°36.4'	S 12°02.8'	265°35.3'	S 22°40.2'	237°57.9'	S 21°35.8'	114°26.8'	N 20°22.8'

Wed Mar 27, 2019 UTC

UTC	Venus -3.9 v = -0.5' d = 1.0'		Jupiter -2.1 v = 2.3' d = 0.0'		Saturn +0.6 v = 2.3' d = 0.0'		Mars +1.4 v = 0.7' d = 0.4'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	211°35.9'	S 12°01.8'	280°37.6'	S 22°40.2'	253°00.3'	S 21°35.8'	129°27.6'	N 20°23.2'
1	226°35.5'	S 12°00.9'	295°39.9'	S 22°40.2'	268°02.6'	S 21°35.8'	144°28.3'	N 20°23.6'
2	241°35.0'	S 11°59.9'	310°42.3'	S 22°40.2'	283°04.9'	S 21°35.8'	159°29.1'	N 20°24.0'
3	256°34.5'	S 11°59.0'	325°44.6'	S 22°40.2'	298°07.2'	S 21°35.8'	174°29.8'	N 20°24.4'
4	271°34.1'	S 11°58.0'	340°47.0'	S 22°40.2'	313°09.5'	S 21°35.8'	189°30.6'	N 20°24.8'
5	286°33.6'	S 11°57.1'	355°49.3'	S 22°40.2'	328°11.9'	S 21°35.7'	204°31.3'	N 20°25.2'
6	301°33.2'	S 11°56.1'	10°51.7'	S 22°40.2'	343°14.2'	S 21°35.7'	219°32.1'	N 20°25.6'
7	316°32.7'	S 11°55.2'	25°54.0'	S 22°40.2'	358°16.5'	S 21°35.7'	234°32.8'	N 20°26.0'
8	331°32.3'	S 11°54.2'	40°56.3'	S 22°40.2'	13°18.8'	S 21°35.7'	249°33.5'	N 20°26.4'
9	346°31.8'	S 11°53.3'	55°58.7'	S 22°40.2'	28°21.1'	S 21°35.7'	264°34.3'	N 20°26.8'
10	1°31.4'	S 11°52.3'	71°01.0'	S 22°40.2'	43°23.5'	S 21°35.7'	279°35.0'	N 20°27.2'
11	16°30.9'	S 11°51.4'	86°03.4'	S 22°40.2'	58°25.8'	S 21°35.6'	294°35.8'	N 20°27.6'
12	31°30.5'	S 11°50.4'	101°05.7'	S 22°40.2'	73°28.1'	S 21°35.6'	309°36.5'	N 20°28.0'
13	46°30.0'	S 11°49.4'	116°08.1'	S 22°40.2'	88°30.4'	S 21°35.6'	324°37.3'	N 20°28.3'
14	61°29.6'	S 11°48.5'	131°10.4'	S 22°40.2'	103°32.8'	S 21°35.6'	339°38.0'	N 20°28.7'
15	76°29.1'	S 11°47.5'	146°12.8'	S 22°40.2'	118°35.1'	S 21°35.6'	354°38.8'	N 20°29.1'
16	91°28.7'	S 11°46.6'	161°15.1'	S 22°40.3'	133°37.4'	S 21°35.5'	9°39.5'	N 20°29.5'
17	106°28.2'	S 11°45.6'	176°17.4'	S 22°40.3'	148°39.7'	S 21°35.5'	24°40.3'	N 20°29.9'
18	121°27.8'	S 11°44.7'	191°19.8'	S 22°40.3'	163°42.1'	S 21°35.5'	39°41.0'	N 20°30.3'
19	136°27.3'	S 11°43.7'	206°22.1'	S 22°40.3'	178°44.4'	S 21°35.5'	54°41.7'	N 20°30.7'
20	151°26.9'	S 11°42.7'	221°24.5'	S 22°40.3'	193°46.7'	S 21°35.5'	69°42.5'	N 20°31.1'
21	166°26.4'	S 11°41.8'	236°26.8'	S 22°40.3'	208°49.0'	S 21°35.5'	84°43.2'	N 20°31.5'
22	181°26.0'	S 11°40.8'	251°29.2'	S 22°40.3'	223°51.3'	S 21°35.4'	99°44.0'	N 20°31.9'
23	196°25.5'	S 11°39.9'	266°31.5'	S 22°40.3'	238°53.7'	S 21°35.4'	114°44.7'	N 20°32.3'

Thu Mar 28, 2019 UTC

UTC	Venus -3.9 v = -0.4' d = 1.0'		Jupiter -2.1 v = 2.4' d = 0.0'		Saturn +0.6 v = 2.3' d = 0.0'		Mars +1.4 v = 0.7' d = 0.4'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	211°25.1'	S 11°38.9'	281°33.9'	S 22°40.3'	253°56.0'	S 21°35.4'	129°45.5'	N 20°32.7'
1	226°24.6'	S 11°37.9'	296°36.2'	S 22°40.3'	268°58.3'	S 21°35.4'	144°46.2'	N 20°33.1'
2	241°24.2'	S 11°37.0'	311°38.6'	S 22°40.3'	284°00.6'	S 21°35.4'	159°47.0'	N 20°33.5'
3	256°23.7'	S 11°36.0'	326°40.9'	S 22°40.3'	299°03.0'	S 21°35.4'	174°47.7'	N 20°33.9'
4	271°23.3'	S 11°35.0'	341°43.3'	S 22°40.3'	314°05.3'	S 21°35.3'	189°48.4'	N 20°34.2'
5	286°22.8'	S 11°34.1'	356°45.6'	S 22°40.3'	329°07.6'	S 21°35.3'	204°49.2'	N 20°34.6'
6	301°22.4'	S 11°33.1'	11°48.0'	S 22°40.3'	344°09.9'	S 21°35.3'	219°49.9'	N 20°35.0'
7	316°21.9'	S 11°32.2'	26°50.3'	S 22°40.3'	359°12.3'	S 21°35.3'	234°50.7'	N 20°35.4'
8	331°21.5'	S 11°31.2'	41°52.7'	S 22°40.3'	14°14.6'	S 21°35.3'	249°51.4'	N 20°35.8'
9	346°21.1'	S 11°30.2'	56°55.0'	S 22°40.3'	29°16.9'	S 21°35.3'	264°52.2'	N 20°36.2'
10	1°20.6'	S 11°29.3'	71°57.4'	S 22°40.3'	44°19.3'	S 21°35.2'	279°52.9'	N 20°36.6'
11	16°20.2'	S 11°28.3'	86°59.7'	S 22°40.3'	59°21.6'	S 21°35.2'	294°53.6'	N 20°37.0'
12	31°19.7'	S 11°27.3'	102°02.1'	S 22°40.3'	74°23.9'	S 21°35.2'	309°54.4'	N 20°37.4'
13	46°19.3'	S 11°26.3'	117°04.4'	S 22°40.3'	89°26.2'	S 21°35.2'	324°55.1'	N 20°37.7'
14	61°18.8'	S 11°25.4'	132°06.8'	S 22°40.3'	104°28.6'	S 21°35.2'	339°55.9'	N 20°38.1'
15	76°18.4'	S 11°24.4'	147°09.2'	S 22°40.3'	119°30.9'	S 21°35.1'	354°56.6'	N 20°38.5'
16	91°17.9'	S 11°23.4'	162°11.5'	S 22°40.4'	134°33.2'	S 21°35.1'	9°57.4'	N 20°38.9'
17	106°17.5'	S 11°22.5'	177°13.9'	S 22°40.4'	149°35.5'	S 21°35.1'	24°58.1'	N 20°39.3'
18	121°17.1'	S 11°21.5'	192°16.2'	S 22°40.4'	164°37.9'	S 21°35.1'	39°58.8'	N 20°39.7'
19	136°16.6'	S 11°20.5'	207°18.6'	S 22°40.4'	179°40.2'	S 21°35.1'	54°59.6'	N 20°40.1'
20	151°16.2'	S 11°19.5'	222°20.9'	S 22°40.4'	194°42.5'	S 21°35.1'	70°00.3'	N 20°40.5'
21	166°15.7'	S 11°18.6'	237°23.3'	S 22°40.4'	209°44.9'	S 21°35.0'	85°01.1'	N 20°40.8'
22	181°15.3'	S 11°17.6'	252°25.6'	S 22°40.4'	224°47.2'	S 21°35.0'	100°01.8'	N 20°41.2'
23	196°14.9'	S 11°16.6'	267°28.0'	S 22°40.4'	239°49.5'	S 21°35.0'	115°02.5'	N 20°41.6'

Fri Mar 29, 2019 UTC

UTC	Venus -3.9 v = -0.4' d = 1.0'		Jupiter -2.1 v = 2.4' d = 0.0'		Saturn +0.6 v = 2.3' d = 0.0'		Mars +1.4 v = 0.7' d = 0.4'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	211°14.4'	S 11°15.6'	282°30.3'	S 22°40.4'	254°51.8'	S 21°35.0'	130°03.3'	N 20°42.0'
1	226°14.0'	S 11°14.7'	297°32.7'	S 22°40.4'	269°54.2'	S 21°35.0'	145°04.0'	N 20°42.4'
2	241°13.5'	S 11°13.7'	312°35.1'	S 22°40.4'	284°56.5'	S 21°35.0'	160°04.8'	N 20°42.8'
3	256°13.1'	S 11°12.7'	327°37.4'	S 22°40.4'	299°58.8'	S 21°34.9'	175°05.5'	N 20°43.2'
4	271°12.7'	S 11°11.7'	342°39.8'	S 22°40.4'	315°01.2'	S 21°34.9'	190°06.3'	N 20°43.5'
5	286°12.2'	S 11°10.8'	357°42.1'	S 22°40.4'	330°03.5'	S 21°34.9'	205°07.0'	N 20°43.9'
6	301°11.8'	S 11°09.8'	12°44.5'	S 22°40.4'	345°05.8'	S 21°34.9'	220°07.7'	N 20°44.3'
7	316°11.3'	S 11°08.8'	27°46.9'	S 22°40.4'	0°08.1'	S 21°34.9'	235°08.5'	N 20°44.7'
8	331°10.9'	S 11°07.8'	42°49.2'	S 22°40.4'	15°10.5'	S 21°34.9'	250°09.2'	N 20°45.1'
9	346°10.5'	S 11°06.8'	57°51.6'	S 22°40.4'	30°12.8'	S 21°34.8'	265°10.0'	N 20°45.5'
10	1°10.0'	S 11°05.9'	72°53.9'	S 22°40.4'	45°15.1'	S 21°34.8'	280°10.7'	N 20°45.8'
11	16°09.6'	S 11°04.9'	87°56.3'	S 22°40.4'	60°17.5'	S 21°34.8'	295°11.4'	N 20°46.2'
12	31°09.2'	S 11°03.9'	102°58.7'	S 22°40.4'	75°19.8'	S 21°34.8'	310°12.2'	N 20°46.6'
13	46°08.7'	S 11°02.9'	118°01.0'	S 22°40.4'	90°22.1'	S 21°34.8'	325°12.9'	N 20°47.0'
14	61°08.3'	S 11°01.9'	133°03.4'	S 22°40.4'	105°24.5'	S 21°34.8'	340°13.7'	N 20°47.4'
15	76°07.8'	S 11°00.9'	148°05.7'	S 22°40.4'	120°26.8'	S 21°34.7'	355°14.4'	N 20°47.7'
16	91°07.4'	S 10°60.0'	163°08.1'	S 22°40.4'	135°29.1'	S 21°34.7'	10°15.1'	N 20°48.1'
17	106°07.0'	S 10°59.0'	178°10.5'	S 22°40.4'	150°31.4'	S 21°34.7'	25°15.9'	N 20°48.5'
18	121°06.5'	S 10°58.0'	193°12.8'	S 22°40.4'	165°33.8'	S 21°34.7'	40°16.6'	N 20°48.9'
19	136°06.1'	S 10°57.0'	208°15.2'	S 22°40.5'	180°36.1'	S 21°34.7'	55°17.4'	N 20°49.3'
20	151°05.7'	S 10°56.0'	223°17.6'	S 22°40.5'	195°38.4'	S 21°34.7'	70°18.1'	N 20°49.6'
21	166°05.2'	S 10°55.0'	238°19.9'	S 22°40.5'	210°40.8'	S 21°34.6'	85°18.8'	N 20°50.0'
22	181°04.8'	S 10°54.0'	253°22.3'	S 22°40.5'	225°43.1'	S 21°34.6'	100°19.6'	N 20°50.4'
23	196°04.4'	S 10°53.1'	268°24.7'	S 22°40.5'	240°45.4'	S 21°34.6'	115°20.3'	N 20°50.8'

Sat Mar 30, 2019 UTC

UTC	Venus -3.9 v = -0.4' d = 1.0'		Jupiter -2.1 v = 2.4' d = 0.0'		Saturn +0.6 v = 2.3' d = 0.0'		Mars +1.4 v = 0.7' d = 0.4'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	211°03.9'	S 10°52.1'	283°27.0'	S 22°40.5'	255°47.8'	S 21°34.6'	130°21.0'	N 20°51.2'
1	226°03.5'	S 10°51.1'	298°29.4'	S 22°40.5'	270°50.1'	S 21°34.6'	145°21.8'	N 20°51.5'
2	241°03.1'	S 10°50.1'	313°31.7'	S 22°40.5'	285°52.4'	S 21°34.6'	160°22.5'	N 20°51.9'
3	256°02.6'	S 10°49.1'	328°34.1'	S 22°40.5'	300°54.8'	S 21°34.6'	175°23.3'	N 20°52.3'
4	271°02.2'	S 10°48.1'	343°36.5'	S 22°40.5'	315°57.1'	S 21°34.5'	190°24.0'	N 20°52.7'
5	286°01.8'	S 10°47.1'	358°38.8'	S 22°40.5'	330°59.4'	S 21°34.5'	205°24.7'	N 20°53.0'
6	301°01.3'	S 10°46.1'	13°41.2'	S 22°40.5'	346°01.8'	S 21°34.5'	220°25.5'	N 20°53.4'
7	316°00.9'	S 10°45.1'	28°43.6'	S 22°40.5'	1°04.1'	S 21°34.5'	235°26.2'	N 20°53.8'
8	331°00.5'	S 10°44.1'	43°45.9'	S 22°40.5'	16°06.4'	S 21°34.5'	250°27.0'	N 20°54.2'
9	346°00.0'	S 10°43.2'	58°48.3'	S 22°40.5'	31°08.8'	S 21°34.5'	265°27.7'	N 20°54.5'
10	0°59.6'	S 10°42.2'	73°50.7'	S 22°40.5'	46°11.1'	S 21°34.4'	280°28.4'	N 20°54.9'
11	15°59.2'	S 10°41.2'	88°53.1'	S 22°40.5'	61°13.4'	S 21°34.4'	295°29.2'	N 20°55.3'
12	30°58.8'	S 10°40.2'	103°55.4'	S 22°40.5'	76°15.8'	S 21°34.4'	310°29.9'	N 20°55.7'
13	45°58.3'	S 10°39.2'	118°57.8'	S 22°40.5'	91°18.1'	S 21°34.4'	325°30.6'	N 20°56.0'
14	60°57.9'	S 10°38.2'	134°00.2'	S 22°40.5'	106°20.4'	S 21°34.4'	340°31.4'	N 20°56.4'
15	75°57.5'	S 10°37.2'	149°02.5'	S 22°40.5'	121°22.8'	S 21°34.4'	355°32.1'	N 20°56.8'
16	90°57.0'	S 10°36.2'	164°04.9'	S 22°40.5'	136°25.1'	S 21°34.3'	10°32.8'	N 20°57.2'
17	105°56.6'	S 10°35.2'	179°07.3'	S 22°40.5'	151°27.4'	S 21°34.3'	25°33.6'	N 20°57.5'
18	120°56.2'	S 10°34.2'	194°09.6'	S 22°40.5'	166°29.8'	S 21°34.3'	40°34.3'	N 20°57.9'
19	135°55.8'	S 10°33.2'	209°12.0'	S 22°40.5'	181°32.1'	S 21°34.3'	55°35.1'	N 20°58.3'
20	150°55.3'	S 10°32.2'	224°14.4'	S 22°40.5'	196°34.5'	S 21°34.3'	70°35.8'	N 20°58.7'
21	165°54.9'	S 10°31.2'	239°16.8'	S 22°40.5'	211°36.8'	S 21°34.3'	85°36.5'	N 20°59.0'
22	180°54.5'	S 10°30.2'	254°19.1'	S 22°40.5'	226°39.1'	S 21°34.2'	100°37.3'	N 20°59.4'
23	195°54.1'	S 10°29.2'	269°21.5'	S 22°40.5'	241°41.5'	S 21°34.2'	115°38.0'	N 20°59.8'

Sun Mar 31, 2019 UTC

UTC	Venus -3.9		Jupiter -2.1		Saturn +0.6		Mars +1.4	
	v = -0.4' d = 1.0'		v = 2.4' d = 0.0'		v = 2.3' d = 0.0'		v = 0.7' d = 0.4'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	210°53.6'	S 10°28.2'	284°23.9'	S 22°40.5'	256°43.8'	S 21°34.2'	130°38.7'	N 21°00.1'
1	225°53.2'	S 10°27.2'	299°26.3'	S 22°40.6'	271°46.1'	S 21°34.2'	145°39.5'	N 21°00.5'
2	240°52.8'	S 10°26.2'	314°28.6'	S 22°40.6'	286°48.5'	S 21°34.2'	160°40.2'	N 21°00.9'
3	255°52.4'	S 10°25.2'	329°31.0'	S 22°40.6'	301°50.8'	S 21°34.2'	175°40.9'	N 21°01.3'
4	270°51.9'	S 10°24.2'	344°33.4'	S 22°40.6'	316°53.1'	S 21°34.2'	190°41.7'	N 21°01.6'
5	285°51.5'	S 10°23.2'	359°35.8'	S 22°40.6'	331°55.5'	S 21°34.1'	205°42.4'	N 21°02.0'
6	300°51.1'	S 10°22.2'	14°38.1'	S 22°40.6'	346°57.8'	S 21°34.1'	220°43.2'	N 21°02.4'
7	315°50.7'	S 10°21.2'	29°40.5'	S 22°40.6'	2°00.2'	S 21°34.1'	235°43.9'	N 21°02.7'
8	330°50.2'	S 10°20.2'	44°42.9'	S 22°40.6'	17°02.5'	S 21°34.1'	250°44.6'	N 21°03.1'
9	345°49.8'	S 10°19.2'	59°45.3'	S 22°40.6'	32°04.8'	S 21°34.1'	265°45.4'	N 21°03.5'
10	0°49.4'	S 10°18.2'	74°47.6'	S 22°40.6'	47°07.2'	S 21°34.1'	280°46.1'	N 21°03.8'
11	15°49.0'	S 10°17.1'	89°50.0'	S 22°40.6'	62°09.5'	S 21°34.0'	295°46.8'	N 21°04.2'
12	30°48.5'	S 10°16.1'	104°52.4'	S 22°40.6'	77°11.8'	S 21°34.0'	310°47.6'	N 21°04.6'
13	45°48.1'	S 10°15.1'	119°54.8'	S 22°40.6'	92°14.2'	S 21°34.0'	325°48.3'	N 21°04.9'
14	60°47.7'	S 10°14.1'	134°57.1'	S 22°40.6'	107°16.5'	S 21°34.0'	340°49.0'	N 21°05.3'
15	75°47.3'	S 10°13.1'	149°59.5'	S 22°40.6'	122°18.9'	S 21°34.0'	355°49.8'	N 21°05.7'
16	90°46.9'	S 10°12.1'	165°01.9'	S 22°40.6'	137°21.2'	S 21°34.0'	10°50.5'	N 21°06.0'
17	105°46.4'	S 10°11.1'	180°04.3'	S 22°40.6'	152°23.5'	S 21°33.9'	25°51.2'	N 21°06.4'
18	120°46.0'	S 10°10.1'	195°06.7'	S 22°40.6'	167°25.9'	S 21°33.9'	40°52.0'	N 21°06.8'
19	135°45.6'	S 10°09.1'	210°09.0'	S 22°40.6'	182°28.2'	S 21°33.9'	55°52.7'	N 21°07.1'
20	150°45.2'	S 10°08.1'	225°11.4'	S 22°40.6'	197°30.6'	S 21°33.9'	70°53.4'	N 21°07.5'
21	165°44.7'	S 10°07.0'	240°13.8'	S 22°40.6'	212°32.9'	S 21°33.9'	85°54.2'	N 21°07.9'
22	180°44.3'	S 10°06.0'	255°16.2'	S 22°40.6'	227°35.2'	S 21°33.9'	100°54.9'	N 21°08.2'
23	195°43.9'	S 10°05.0'	270°18.6'	S 22°40.6'	242°37.6'	S 21°33.9'	115°55.6'	N 21°08.6'