

Tue Jan 1, 2019 UTC

UTC	Venus -4.3		Jupiter -1.6		Saturn +0.5		Mars +0.5	
	v = -0.0' d = 0.6'		v = 1.9' d = 0.1'		v = 2.1' d = 0.0'		v = 0.9' d = 0.7'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	228°21.5'	S 15°18.7'	210°00.8'	S 21°34.3'	178°01.9'	S 22°28.0'	100°17.9'	S 0°18.0'
1	243°21.5'	S 15°19.2'	225°02.7'	S 21°34.4'	193°04.1'	S 22°28.0'	115°18.8'	S 0°17.3'
2	258°21.5'	S 15°19.8'	240°04.6'	S 21°34.5'	208°06.2'	S 22°28.0'	130°19.8'	S 0°16.5'
3	273°21.5'	S 15°20.4'	255°06.5'	S 21°34.5'	223°08.3'	S 22°28.0'	145°20.7'	S 0°15.8'
4	288°21.5'	S 15°21.0'	270°08.4'	S 21°34.6'	238°10.5'	S 22°27.9'	160°21.7'	S 0°15.1'
5	303°21.4'	S 15°21.6'	285°10.3'	S 21°34.7'	253°12.6'	S 22°27.9'	175°22.6'	S 0°14.4'
6	318°21.4'	S 15°22.2'	300°12.2'	S 21°34.7'	268°14.8'	S 22°27.9'	190°23.6'	S 0°13.7'
7	333°21.4'	S 15°22.7'	315°14.1'	S 21°34.8'	283°16.9'	S 22°27.9'	205°24.5'	S 0°12.9'
8	348°21.4'	S 15°23.3'	330°16.0'	S 21°34.9'	298°19.1'	S 22°27.8'	220°25.4'	S 0°12.2'
9	3°21.4'	S 15°23.9'	345°17.9'	S 21°35.0'	313°21.2'	S 22°27.8'	235°26.4'	S 0°11.5'
10	18°21.4'	S 15°24.5'	0°19.9'	S 21°35.0'	328°23.4'	S 22°27.8'	250°27.3'	S 0°10.8'
11	33°21.4'	S 15°25.1'	15°21.8'	S 21°35.1'	343°25.5'	S 22°27.8'	265°28.3'	S 0°10.1'
12	48°21.4'	S 15°25.6'	30°23.7'	S 21°35.2'	358°27.6'	S 22°27.8'	280°29.2'	S 0°09.3'
13	63°21.4'	S 15°26.2'	45°25.6'	S 21°35.2'	13°29.8'	S 22°27.7'	295°30.2'	S 0°08.6'
14	78°21.3'	S 15°26.8'	60°27.5'	S 21°35.3'	28°31.9'	S 22°27.7'	310°31.1'	S 0°07.9'
15	93°21.3'	S 15°27.4'	75°29.4'	S 21°35.4'	43°34.1'	S 22°27.7'	325°32.1'	S 0°07.2'
16	108°21.3'	S 15°28.0'	90°31.3'	S 21°35.5'	58°36.2'	S 22°27.7'	340°33.0'	S 0°06.4'
17	123°21.3'	S 15°28.5'	105°33.2'	S 21°35.5'	73°38.4'	S 22°27.6'	355°34.0'	S 0°05.7'
18	138°21.3'	S 15°29.1'	120°35.1'	S 21°35.6'	88°40.5'	S 22°27.6'	10°34.9'	S 0°05.0'
19	153°21.2'	S 15°29.7'	135°37.0'	S 21°35.7'	103°42.7'	S 22°27.6'	25°35.8'	S 0°04.3'
20	168°21.2'	S 15°30.3'	150°38.9'	S 21°35.7'	118°44.8'	S 22°27.6'	40°36.8'	S 0°03.6'
21	183°21.2'	S 15°30.9'	165°40.8'	S 21°35.8'	133°47.0'	S 22°27.6'	55°37.7'	S 0°02.8'
22	198°21.2'	S 15°31.5'	180°42.7'	S 21°35.9'	148°49.1'	S 22°27.5'	70°38.7'	S 0°02.1'
23	213°21.2'	S 15°32.0'	195°44.6'	S 21°36.0'	163°51.2'	S 22°27.5'	85°39.6'	S 0°01.4'

Wed Jan 2, 2019 UTC

UTC	Venus -4.3		Jupiter -1.6		Saturn +0.5		Mars +0.5	
	v = -0.0' d = 0.6'		v = 1.9' d = 0.1'		v = 2.1' d = 0.0'		v = 0.9' d = 0.7'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	228°21.1'	S 15°32.6'	210°46.5'	S 21°36.0'	178°53.4'	S 22°27.5'	100°40.6'	S 0°00.7'
1	243°21.1'	S 15°33.2'	225°48.4'	S 21°36.1'	193°55.5'	S 22°27.5'	115°41.5'	N 0°00.0'
2	258°21.1'	S 15°33.8'	240°50.4'	S 21°36.2'	208°57.7'	S 22°27.4'	130°42.5'	N 0°00.8'
3	273°21.0'	S 15°34.4'	255°52.3'	S 21°36.2'	223°59.8'	S 22°27.4'	145°43.4'	N 0°01.5'
4	288°21.0'	S 15°34.9'	270°54.2'	S 21°36.3'	239°02.0'	S 22°27.4'	160°44.3'	N 0°02.2'
5	303°21.0'	S 15°35.5'	285°56.1'	S 21°36.4'	254°04.1'	S 22°27.4'	175°45.3'	N 0°02.9'
6	318°21.0'	S 15°36.1'	300°58.0'	S 21°36.4'	269°06.3'	S 22°27.3'	190°46.2'	N 0°03.6'
7	333°20.9'	S 15°36.7'	315°59.9'	S 21°36.5'	284°08.4'	S 22°27.3'	205°47.2'	N 0°04.4'
8	348°20.9'	S 15°37.3'	331°01.8'	S 21°36.6'	299°10.6'	S 22°27.3'	220°48.1'	N 0°05.1'
9	3°20.9'	S 15°37.8'	346°03.7'	S 21°36.7'	314°12.7'	S 22°27.3'	235°49.1'	N 0°05.8'
10	18°20.8'	S 15°38.4'	1°05.6'	S 21°36.7'	329°14.8'	S 22°27.3'	250°50.0'	N 0°06.5'
11	33°20.8'	S 15°39.0'	16°07.5'	S 21°36.8'	344°17.0'	S 22°27.2'	265°51.0'	N 0°07.2'
12	48°20.7'	S 15°39.6'	31°09.4'	S 21°36.9'	359°19.1'	S 22°27.2'	280°51.9'	N 0°08.0'
13	63°20.7'	S 15°40.2'	46°11.3'	S 21°36.9'	14°21.3'	S 22°27.2'	295°52.8'	N 0°08.7'
14	78°20.7'	S 15°40.7'	61°13.2'	S 21°37.0'	29°23.4'	S 22°27.2'	310°53.8'	N 0°09.4'
15	93°20.6'	S 15°41.3'	76°15.1'	S 21°37.1'	44°25.6'	S 22°27.1'	325°54.7'	N 0°10.1'
16	108°20.6'	S 15°41.9'	91°17.1'	S 21°37.1'	59°27.7'	S 22°27.1'	340°55.7'	N 0°10.8'
17	123°20.5'	S 15°42.5'	106°19.0'	S 21°37.2'	74°29.9'	S 22°27.1'	355°56.6'	N 0°11.6'
18	138°20.5'	S 15°43.1'	121°20.9'	S 21°37.3'	89°32.0'	S 22°27.1'	10°57.6'	N 0°12.3'
19	153°20.5'	S 15°43.6'	136°22.8'	S 21°37.4'	104°34.2'	S 22°27.1'	25°58.5'	N 0°13.0'
20	168°20.4'	S 15°44.2'	151°24.7'	S 21°37.4'	119°36.3'	S 22°27.0'	40°59.4'	N 0°13.7'
21	183°20.4'	S 15°44.8'	166°26.6'	S 21°37.5'	134°38.4'	S 22°27.0'	56°00.4'	N 0°14.4'
22	198°20.3'	S 15°45.4'	181°28.5'	S 21°37.6'	149°40.6'	S 22°27.0'	71°01.3'	N 0°15.2'
23	213°20.3'	S 15°45.9'	196°30.4'	S 21°37.6'	164°42.7'	S 22°27.0'	86°02.3'	N 0°15.9'

Thu Jan 3, 2019 UTC

UTC	Venus -4.3		Jupiter -1.6		Saturn +0.5		Mars +0.5	
	v = -0.1' d = 0.6'		v = 1.9' d = 0.1'		v = 2.1' d = 0.0'		v = 0.9' d = 0.7'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	228°20.2'	S 15°46.5'	211°32.3'	S 21°37.7'	179°44.9'	S 22°26.9'	101°03.2'	N 0°16.6'
1	243°20.2'	S 15°47.1'	226°34.2'	S 21°37.8'	194°47.0'	S 22°26.9'	116°04.2'	N 0°17.3'
2	258°20.1'	S 15°47.7'	241°36.1'	S 21°37.8'	209°49.2'	S 22°26.9'	131°05.1'	N 0°18.0'
3	273°20.1'	S 15°48.3'	256°38.0'	S 21°37.9'	224°51.3'	S 22°26.9'	146°06.0'	N 0°18.8'
4	288°20.0'	S 15°48.8'	271°40.0'	S 21°38.0'	239°53.5'	S 22°26.9'	161°07.0'	N 0°19.5'
5	303°20.0'	S 15°49.4'	286°41.9'	S 21°38.0'	254°55.6'	S 22°26.8'	176°07.9'	N 0°20.2'
6	318°19.9'	S 15°50.0'	301°43.8'	S 21°38.1'	269°57.8'	S 22°26.8'	191°08.9'	N 0°20.9'
7	333°19.8'	S 15°50.6'	316°45.7'	S 21°38.2'	284°59.9'	S 22°26.8'	206°09.8'	N 0°21.6'
8	348°19.8'	S 15°51.1'	331°47.6'	S 21°38.3'	300°02.0'	S 22°26.8'	221°10.8'	N 0°22.4'
9	3°19.7'	S 15°51.7'	346°49.5'	S 21°38.3'	315°04.2'	S 22°26.7'	236°11.7'	N 0°23.1'
10	18°19.7'	S 15°52.3'	1°51.4'	S 21°38.4'	330°06.3'	S 22°26.7'	251°12.6'	N 0°23.8'
11	33°19.6'	S 15°52.9'	16°53.3'	S 21°38.5'	345°08.5'	S 22°26.7'	266°13.6'	N 0°24.5'
12	48°19.5'	S 15°53.5'	31°55.2'	S 21°38.5'	0°10.6'	S 22°26.7'	281°14.5'	N 0°25.2'
13	63°19.5'	S 15°54.0'	46°57.1'	S 21°38.6'	15°12.8'	S 22°26.6'	296°15.5'	N 0°26.0'
14	78°19.4'	S 15°54.6'	61°59.0'	S 21°38.7'	30°14.9'	S 22°26.6'	311°16.4'	N 0°26.7'
15	93°19.4'	S 15°55.2'	77°01.0'	S 21°38.7'	45°17.1'	S 22°26.6'	326°17.4'	N 0°27.4'
16	108°19.3'	S 15°55.8'	92°02.9'	S 21°38.8'	60°19.2'	S 22°26.6'	341°18.3'	N 0°28.1'
17	123°19.2'	S 15°56.3'	107°04.8'	S 21°38.9'	75°21.3'	S 22°26.6'	356°19.2'	N 0°28.8'
18	138°19.2'	S 15°56.9'	122°06.7'	S 21°38.9'	90°23.5'	S 22°26.5'	11°20.2'	N 0°29.6'
19	153°19.1'	S 15°57.5'	137°08.6'	S 21°39.0'	105°25.6'	S 22°26.5'	26°21.1'	N 0°30.3'
20	168°19.0'	S 15°58.1'	152°10.5'	S 21°39.1'	120°27.8'	S 22°26.5'	41°22.1'	N 0°31.0'
21	183°19.0'	S 15°58.6'	167°12.4'	S 21°39.1'	135°29.9'	S 22°26.5'	56°23.0'	N 0°31.7'
22	198°18.9'	S 15°59.2'	182°14.3'	S 21°39.2'	150°32.1'	S 22°26.4'	71°23.9'	N 0°32.4'
23	213°18.8'	S 15°59.8'	197°16.2'	S 21°39.3'	165°34.2'	S 22°26.4'	86°24.9'	N 0°33.2'

Fri Jan 4, 2019 UTC

UTC	Venus -4.3		Jupiter -1.6		Saturn +0.5		Mars +0.5	
	v = -0.1' d = 0.6'		v = 1.9' d = 0.1'		v = 2.1' d = 0.0'		v = 0.9' d = 0.7'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	228°18.7'	S 16°00.4'	212°18.2'	S 21°39.4'	180°36.4'	S 22°26.4'	101°25.8'	N 0°33.9'
1	243°18.7'	S 16°00.9'	227°20.1'	S 21°39.4'	195°38.5'	S 22°26.4'	116°26.8'	N 0°34.6'
2	258°18.6'	S 16°01.5'	242°22.0'	S 21°39.5'	210°40.7'	S 22°26.3'	131°27.7'	N 0°35.3'
3	273°18.5'	S 16°02.1'	257°23.9'	S 21°39.6'	225°42.8'	S 22°26.3'	146°28.7'	N 0°36.0'
4	288°18.4'	S 16°02.7'	272°25.8'	S 21°39.6'	240°44.9'	S 22°26.3'	161°29.6'	N 0°36.8'
5	303°18.4'	S 16°03.2'	287°27.7'	S 21°39.7'	255°47.1'	S 22°26.3'	176°30.5'	N 0°37.5'
6	318°18.3'	S 16°03.8'	302°29.6'	S 21°39.8'	270°49.2'	S 22°26.3'	191°31.5'	N 0°38.2'
7	333°18.2'	S 16°04.4'	317°31.5'	S 21°39.8'	285°51.4'	S 22°26.2'	206°32.4'	N 0°38.9'
8	348°18.1'	S 16°05.0'	332°33.4'	S 21°39.9'	300°53.5'	S 22°26.2'	221°33.4'	N 0°39.6'
9	3°18.0'	S 16°05.5'	347°35.4'	S 21°40.0'	315°55.7'	S 22°26.2'	236°34.3'	N 0°40.3'
10	18°18.0'	S 16°06.1'	2°37.3'	S 21°40.0'	330°57.8'	S 22°26.2'	251°35.2'	N 0°41.1'
11	33°17.9'	S 16°06.7'	17°39.2'	S 21°40.1'	345°60.0'	S 22°26.1'	266°36.2'	N 0°41.8'
12	48°17.8'	S 16°07.3'	32°41.1'	S 21°40.2'	1°02.1'	S 22°26.1'	281°37.1'	N 0°42.5'
13	63°17.7'	S 16°07.8'	47°43.0'	S 21°40.2'	16°04.3'	S 22°26.1'	296°38.1'	N 0°43.2'
14	78°17.6'	S 16°08.4'	62°44.9'	S 21°40.3'	31°06.4'	S 22°26.1'	311°39.0'	N 0°43.9'
15	93°17.5'	S 16°09.0'	77°46.8'	S 21°40.4'	46°08.5'	S 22°26.0'	326°39.9'	N 0°44.7'
16	108°17.4'	S 16°09.5'	92°48.7'	S 21°40.4'	61°10.7'	S 22°26.0'	341°40.9'	N 0°45.4'
17	123°17.4'	S 16°10.1'	107°50.6'	S 21°40.5'	76°12.8'	S 22°26.0'	356°41.8'	N 0°46.1'
18	138°17.3'	S 16°10.7'	122°52.6'	S 21°40.6'	91°15.0'	S 22°26.0'	11°42.8'	N 0°46.8'
19	153°17.2'	S 16°11.3'	137°54.5'	S 21°40.6'	106°17.1'	S 22°26.0'	26°43.7'	N 0°47.5'
20	168°17.1'	S 16°11.8'	152°56.4'	S 21°40.7'	121°19.3'	S 22°25.9'	41°44.6'	N 0°48.3'
21	183°17.0'	S 16°12.4'	167°58.3'	S 21°40.8'	136°21.4'	S 22°25.9'	56°45.6'	N 0°49.0'
22	198°16.9'	S 16°13.0'	183°00.2'	S 21°40.8'	151°23.6'	S 22°25.9'	71°46.5'	N 0°49.7'
23	213°16.8'	S 16°13.6'	198°02.1'	S 21°40.9'	166°25.7'	S 22°25.9'	86°47.5'	N 0°50.4'

Sat Jan 5, 2019 UTC

UTC	Venus -4.3		Jupiter -1.6		Saturn +0.5		Mars +0.5	
	v = -0.1' d = 0.6'		v = 1.9' d = 0.1'		v = 2.1' d = 0.0'		v = 0.9' d = 0.7'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	228°16.7'	S 16°14.1'	213°04.0'	S 21°41.0'	181°27.9'	S 22°25.8'	101°48.4'	N 0°51.1'
1	243°16.6'	S 16°14.7'	228°05.9'	S 21°41.0'	196°30.0'	S 22°25.8'	116°49.3'	N 0°51.9'
2	258°16.5'	S 16°15.3'	243°07.9'	S 21°41.1'	211°32.1'	S 22°25.8'	131°50.3'	N 0°52.6'
3	273°16.4'	S 16°15.8'	258°09.8'	S 21°41.2'	226°34.3'	S 22°25.8'	146°51.2'	N 0°53.3'
4	288°16.3'	S 16°16.4'	273°11.7'	S 21°41.2'	241°36.4'	S 22°25.7'	161°52.2'	N 0°54.0'
5	303°16.2'	S 16°17.0'	288°13.6'	S 21°41.3'	256°38.6'	S 22°25.7'	176°53.1'	N 0°54.7'
6	318°16.1'	S 16°17.5'	303°15.5'	S 21°41.4'	271°40.7'	S 22°25.7'	191°54.0'	N 0°55.5'
7	333°16.0'	S 16°18.1'	318°17.4'	S 21°41.4'	286°42.9'	S 22°25.7'	206°55.0'	N 0°56.2'
8	348°15.9'	S 16°18.7'	333°19.3'	S 21°41.5'	301°45.0'	S 22°25.7'	221°55.9'	N 0°56.9'
9	3°15.8'	S 16°19.3'	348°21.3'	S 21°41.6'	316°47.2'	S 22°25.6'	236°56.9'	N 0°57.6'
10	18°15.7'	S 16°19.8'	3°23.2'	S 21°41.6'	331°49.3'	S 22°25.6'	251°57.8'	N 0°58.3'
11	33°15.6'	S 16°20.4'	18°25.1'	S 21°41.7'	346°51.5'	S 22°25.6'	266°58.7'	N 0°59.1'
12	48°15.5'	S 16°21.0'	33°27.0'	S 21°41.8'	1°53.6'	S 22°25.6'	281°59.7'	N 0°59.8'
13	63°15.4'	S 16°21.5'	48°28.9'	S 21°41.8'	16°55.7'	S 22°25.5'	297°00.6'	N 1°00.5'
14	78°15.3'	S 16°22.1'	63°30.8'	S 21°41.9'	31°57.9'	S 22°25.5'	312°01.6'	N 1°01.2'
15	93°15.2'	S 16°22.7'	78°32.7'	S 21°42.0'	47°00.0'	S 22°25.5'	327°02.5'	N 1°01.9'
16	108°15.1'	S 16°23.2'	93°34.7'	S 21°42.0'	62°02.2'	S 22°25.5'	342°03.4'	N 1°02.6'
17	123°14.9'	S 16°23.8'	108°36.6'	S 21°42.1'	77°04.3'	S 22°25.4'	357°04.4'	N 1°03.4'
18	138°14.8'	S 16°24.4'	123°38.5'	S 21°42.2'	92°06.5'	S 22°25.4'	12°05.3'	N 1°04.1'
19	153°14.7'	S 16°24.9'	138°40.4'	S 21°42.2'	107°08.6'	S 22°25.4'	27°06.3'	N 1°04.8'
20	168°14.6'	S 16°25.5'	153°42.3'	S 21°42.3'	122°10.8'	S 22°25.4'	42°07.2'	N 1°05.5'
21	183°14.5'	S 16°26.1'	168°44.2'	S 21°42.4'	137°12.9'	S 22°25.3'	57°08.1'	N 1°06.2'
22	198°14.4'	S 16°26.6'	183°46.1'	S 21°42.4'	152°15.1'	S 22°25.3'	72°09.1'	N 1°07.0'
23	213°14.3'	S 16°27.2'	198°48.1'	S 21°42.5'	167°17.2'	S 22°25.3'	87°10.0'	N 1°07.7'

Sun Jan 6, 2019 UTC

UTC	Venus -4.3		Jupiter -1.6		Saturn +0.5		Mars +0.6	
	v = -0.1' d = 0.6'		v = 1.9' d = 0.1'		v = 2.1' d = 0.0'		v = 0.9' d = 0.7'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	228°14.1'	S 16°27.8'	213°50.0'	S 21°42.6'	182°19.4'	S 22°25.3'	102°10.9'	N 1°08.4'
1	243°14.0'	S 16°28.3'	228°51.9'	S 21°42.6'	197°21.5'	S 22°25.3'	117°11.9'	N 1°09.1'
2	258°13.9'	S 16°28.9'	243°53.8'	S 21°42.7'	212°23.6'	S 22°25.2'	132°12.8'	N 1°09.8'
3	273°13.8'	S 16°29.5'	258°55.7'	S 21°42.8'	227°25.8'	S 22°25.2'	147°13.8'	N 1°10.6'
4	288°13.7'	S 16°30.0'	273°57.6'	S 21°42.8'	242°27.9'	S 22°25.2'	162°14.7'	N 1°11.3'
5	303°13.5'	S 16°30.6'	288°59.5'	S 21°42.9'	257°30.1'	S 22°25.2'	177°15.6'	N 1°12.0'
6	318°13.4'	S 16°31.2'	304°01.5'	S 21°43.0'	272°32.2'	S 22°25.1'	192°16.6'	N 1°12.7'
7	333°13.3'	S 16°31.7'	319°03.4'	S 21°43.0'	287°34.4'	S 22°25.1'	207°17.5'	N 1°13.4'
8	348°13.2'	S 16°32.3'	334°05.3'	S 21°43.1'	302°36.5'	S 22°25.1'	222°18.4'	N 1°14.1'
9	3°13.0'	S 16°32.9'	349°07.2'	S 21°43.2'	317°38.7'	S 22°25.1'	237°19.4'	N 1°14.9'
10	18°12.9'	S 16°33.4'	4°09.1'	S 21°43.2'	332°40.8'	S 22°25.0'	252°20.3'	N 1°15.6'
11	33°12.8'	S 16°34.0'	19°11.0'	S 21°43.3'	347°43.0'	S 22°25.0'	267°21.3'	N 1°16.3'
12	48°12.7'	S 16°34.5'	34°13.0'	S 21°43.4'	2°45.1'	S 22°25.0'	282°22.2'	N 1°17.0'
13	63°12.5'	S 16°35.1'	49°14.9'	S 21°43.4'	17°47.2'	S 22°25.0'	297°23.1'	N 1°17.7'
14	78°12.4'	S 16°35.7'	64°16.8'	S 21°43.5'	32°49.4'	S 22°24.9'	312°24.1'	N 1°18.5'
15	93°12.3'	S 16°36.2'	79°18.7'	S 21°43.6'	47°51.5'	S 22°24.9'	327°25.0'	N 1°19.2'
16	108°12.1'	S 16°36.8'	94°20.6'	S 21°43.6'	62°53.7'	S 22°24.9'	342°25.9'	N 1°19.9'
17	123°12.0'	S 16°37.4'	109°22.5'	S 21°43.7'	77°55.8'	S 22°24.9'	357°26.9'	N 1°20.6'
18	138°11.9'	S 16°37.9'	124°24.5'	S 21°43.8'	92°58.0'	S 22°24.9'	12°27.8'	N 1°21.3'
19	153°11.7'	S 16°38.5'	139°26.4'	S 21°43.8'	108°00.1'	S 22°24.8'	27°28.8'	N 1°22.0'
20	168°11.6'	S 16°39.0'	154°28.3'	S 21°43.9'	123°02.3'	S 22°24.8'	42°29.7'	N 1°22.8'
21	183°11.5'	S 16°39.6'	169°30.2'	S 21°44.0'	138°04.4'	S 22°24.8'	57°30.6'	N 1°23.5'
22	198°11.3'	S 16°40.2'	184°32.1'	S 21°44.0'	153°06.6'	S 22°24.8'	72°31.6'	N 1°24.2'
23	213°11.2'	S 16°40.7'	199°34.0'	S 21°44.1'	168°08.7'	S 22°24.7'	87°32.5'	N 1°24.9'

Mon Jan 7, 2019 UTC

UTC	Venus -4.3 v = -0.2' d = 0.6'		Jupiter -1.6 v = 1.9' d = 0.1'		Saturn +0.5 v = 2.1' d = 0.0'		Mars +0.6 v = 0.9' d = 0.7'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	228°11.0'	S 16°41.3'	214°36.0'	S 21°44.2'	183°10.9'	S 22°24.7'	102°33.4'	N 1°25.6'
1	243°10.9'	S 16°41.8'	229°37.9'	S 21°44.2'	198°13.0'	S 22°24.7'	117°34.4'	N 1°26.4'
2	258°10.8'	S 16°42.4'	244°39.8'	S 21°44.3'	213°15.1'	S 22°24.7'	132°35.3'	N 1°27.1'
3	273°10.6'	S 16°43.0'	259°41.7'	S 21°44.3'	228°17.3'	S 22°24.6'	147°36.3'	N 1°27.8'
4	288°10.5'	S 16°43.5'	274°43.6'	S 21°44.4'	243°19.4'	S 22°24.6'	162°37.2'	N 1°28.5'
5	303°10.3'	S 16°44.1'	289°45.5'	S 21°44.5'	258°21.6'	S 22°24.6'	177°38.1'	N 1°29.2'
6	318°10.2'	S 16°44.6'	304°47.5'	S 21°44.5'	273°23.7'	S 22°24.6'	192°39.1'	N 1°29.9'
7	333°10.0'	S 16°45.2'	319°49.4'	S 21°44.6'	288°25.9'	S 22°24.5'	207°40.0'	N 1°30.7'
8	348°09.9'	S 16°45.8'	334°51.3'	S 21°44.7'	303°28.0'	S 22°24.5'	222°40.9'	N 1°31.4'
9	3°09.7'	S 16°46.3'	349°53.2'	S 21°44.7'	318°30.2'	S 22°24.5'	237°41.9'	N 1°32.1'
10	18°09.6'	S 16°46.9'	4°55.1'	S 21°44.8'	333°32.3'	S 22°24.5'	252°42.8'	N 1°32.8'
11	33°09.4'	S 16°47.4'	19°57.1'	S 21°44.9'	348°34.5'	S 22°24.4'	267°43.7'	N 1°33.5'
12	48°09.3'	S 16°48.0'	34°59.0'	S 21°44.9'	3°36.6'	S 22°24.4'	282°44.7'	N 1°34.3'
13	63°09.1'	S 16°48.5'	50°00.9'	S 21°45.0'	18°38.7'	S 22°24.4'	297°45.6'	N 1°35.0'
14	78°09.0'	S 16°49.1'	65°02.8'	S 21°45.1'	33°40.9'	S 22°24.4'	312°46.6'	N 1°35.7'
15	93°08.8'	S 16°49.7'	80°04.7'	S 21°45.1'	48°43.0'	S 22°24.4'	327°47.5'	N 1°36.4'
16	108°08.7'	S 16°50.2'	95°06.6'	S 21°45.2'	63°45.2'	S 22°24.3'	342°48.4'	N 1°37.1'
17	123°08.5'	S 16°50.8'	110°08.6'	S 21°45.3'	78°47.3'	S 22°24.3'	357°49.4'	N 1°37.8'
18	138°08.4'	S 16°51.3'	125°10.5'	S 21°45.3'	93°49.5'	S 22°24.3'	12°50.3'	N 1°38.6'
19	153°08.2'	S 16°51.9'	140°12.4'	S 21°45.4'	108°51.6'	S 22°24.3'	27°51.2'	N 1°39.3'
20	168°08.1'	S 16°52.4'	155°14.3'	S 21°45.4'	123°53.8'	S 22°24.2'	42°52.2'	N 1°40.0'
21	183°07.9'	S 16°53.0'	170°16.2'	S 21°45.5'	138°55.9'	S 22°24.2'	57°53.1'	N 1°40.7'
22	198°07.7'	S 16°53.5'	185°18.2'	S 21°45.6'	153°58.1'	S 22°24.2'	72°54.0'	N 1°41.4'
23	213°07.6'	S 16°54.1'	200°20.1'	S 21°45.6'	169°00.2'	S 22°24.2'	87°55.0'	N 1°42.1'

Tue Jan 8, 2019 UTC

UTC	Venus -4.3 v = -0.2' d = 0.6'		Jupiter -1.6 v = 1.9' d = 0.1'		Saturn +0.5 v = 2.1' d = 0.0'		Mars +0.6 v = 0.9' d = 0.7'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	228°07.4'	S 16°54.7'	215°22.0'	S 21°45.7'	184°02.4'	S 22°24.1'	102°55.9'	N 1°42.9'
1	243°07.3'	S 16°55.2'	230°23.9'	S 21°45.8'	199°04.5'	S 22°24.1'	117°56.8'	N 1°43.6'
2	258°07.1'	S 16°55.8'	245°25.8'	S 21°45.8'	214°06.7'	S 22°24.1'	132°57.8'	N 1°44.3'
3	273°06.9'	S 16°56.3'	260°27.8'	S 21°45.9'	229°08.8'	S 22°24.1'	147°58.7'	N 1°45.0'
4	288°06.8'	S 16°56.9'	275°29.7'	S 21°46.0'	244°10.9'	S 22°24.0'	162°59.7'	N 1°45.7'
5	303°06.6'	S 16°57.4'	290°31.6'	S 21°46.0'	259°13.1'	S 22°24.0'	178°00.6'	N 1°46.4'
6	318°06.4'	S 16°58.0'	305°33.5'	S 21°46.1'	274°15.2'	S 22°24.0'	193°01.5'	N 1°47.2'
7	333°06.3'	S 16°58.5'	320°35.4'	S 21°46.1'	289°17.4'	S 22°24.0'	208°02.5'	N 1°47.9'
8	348°06.1'	S 16°59.1'	335°37.4'	S 21°46.2'	304°19.5'	S 22°23.9'	223°03.4'	N 1°48.6'
9	3°05.9'	S 16°59.6'	350°39.3'	S 21°46.3'	319°21.7'	S 22°23.9'	238°04.3'	N 1°49.3'
10	18°05.8'	S 17°00.2'	5°41.2'	S 21°46.3'	334°23.8'	S 22°23.9'	253°05.3'	N 1°50.0'
11	33°05.6'	S 17°00.7'	20°43.1'	S 21°46.4'	349°26.0'	S 22°23.9'	268°06.2'	N 1°50.8'
12	48°05.4'	S 17°01.3'	35°45.0'	S 21°46.5'	4°28.1'	S 22°23.8'	283°07.1'	N 1°51.5'
13	63°05.3'	S 17°01.8'	50°47.0'	S 21°46.5'	19°30.3'	S 22°23.8'	298°08.1'	N 1°52.2'
14	78°05.1'	S 17°02.4'	65°48.9'	S 21°46.6'	34°32.4'	S 22°23.8'	313°09.0'	N 1°52.9'
15	93°04.9'	S 17°02.9'	80°50.8'	S 21°46.7'	49°34.6'	S 22°23.8'	328°09.9'	N 1°53.6'
16	108°04.7'	S 17°03.5'	95°52.7'	S 21°46.7'	64°36.7'	S 22°23.7'	343°10.9'	N 1°54.3'
17	123°04.6'	S 17°04.0'	110°54.7'	S 21°46.8'	79°38.8'	S 22°23.7'	358°11.8'	N 1°55.1'
18	138°04.4'	S 17°04.6'	125°56.6'	S 21°46.8'	94°41.0'	S 22°23.7'	13°12.7'	N 1°55.8'
19	153°04.2'	S 17°05.1'	140°58.5'	S 21°46.9'	109°43.1'	S 22°23.7'	28°13.7'	N 1°56.5'
20	168°04.0'	S 17°05.7'	156°00.4'	S 21°47.0'	124°45.3'	S 22°23.7'	43°14.6'	N 1°57.2'
21	183°03.8'	S 17°06.2'	171°02.3'	S 21°47.0'	139°47.4'	S 22°23.6'	58°15.5'	N 1°57.9'
22	198°03.7'	S 17°06.8'	186°04.3'	S 21°47.1'	154°49.6'	S 22°23.6'	73°16.5'	N 1°58.6'
23	213°03.5'	S 17°07.3'	201°06.2'	S 21°47.2'	169°51.7'	S 22°23.6'	88°17.4'	N 1°59.4'

Wed Jan 9, 2019 UTC

UTC	Venus -4.2		Jupiter -1.6		Saturn +0.5		Mars +0.6	
	v = -0.2' d = 0.5'		v = 1.9' d = 0.1'		v = 2.1' d = 0.0'		v = 0.9' d = 0.7'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	228°03.3'	S 17°07.9'	216°08.1'	S 21°47.2'	184°53.9'	S 22°23.6'	103°18.3'	N 2°00.1'
1	243°03.1'	S 17°08.4'	231°10.0'	S 21°47.3'	199°56.0'	S 22°23.5'	118°19.3'	N 2°00.8'
2	258°02.9'	S 17°09.0'	246°12.0'	S 21°47.4'	214°58.2'	S 22°23.5'	133°20.2'	N 2°01.5'
3	273°02.7'	S 17°09.5'	261°13.9'	S 21°47.4'	230°00.3'	S 22°23.5'	148°21.1'	N 2°02.2'
4	288°02.6'	S 17°10.0'	276°15.8'	S 21°47.5'	245°02.5'	S 22°23.5'	163°22.1'	N 2°02.9'
5	303°02.4'	S 17°10.6'	291°17.7'	S 21°47.5'	260°04.6'	S 22°23.4'	178°23.0'	N 2°03.7'
6	318°02.2'	S 17°11.1'	306°19.6'	S 21°47.6'	275°06.8'	S 22°23.4'	193°23.9'	N 2°04.4'
7	333°02.0'	S 17°11.7'	321°21.6'	S 21°47.7'	290°08.9'	S 22°23.4'	208°24.9'	N 2°05.1'
8	348°01.8'	S 17°12.2'	336°23.5'	S 21°47.7'	305°11.0'	S 22°23.4'	223°25.8'	N 2°05.8'
9	3°01.6'	S 17°12.8'	351°25.4'	S 21°47.8'	320°13.2'	S 22°23.3'	238°26.7'	N 2°06.5'
10	18°01.4'	S 17°13.3'	6°27.3'	S 21°47.9'	335°15.3'	S 22°23.3'	253°27.7'	N 2°07.2'
11	33°01.2'	S 17°13.9'	21°29.3'	S 21°47.9'	350°17.5'	S 22°23.3'	268°28.6'	N 2°08.0'
12	48°01.0'	S 17°14.4'	36°31.2'	S 21°48.0'	5°19.6'	S 22°23.3'	283°29.5'	N 2°08.7'
13	63°00.8'	S 17°14.9'	51°33.1'	S 21°48.0'	20°21.8'	S 22°23.2'	298°30.5'	N 2°09.4'
14	78°00.7'	S 17°15.5'	66°35.0'	S 21°48.1'	35°23.9'	S 22°23.2'	313°31.4'	N 2°10.1'
15	93°00.5'	S 17°16.0'	81°37.0'	S 21°48.2'	50°26.1'	S 22°23.2'	328°32.3'	N 2°10.8'
16	108°00.3'	S 17°16.6'	96°38.9'	S 21°48.2'	65°28.2'	S 22°23.2'	343°33.3'	N 2°11.5'
17	123°00.1'	S 17°17.1'	111°40.8'	S 21°48.3'	80°30.4'	S 22°23.1'	358°34.2'	N 2°12.2'
18	137°59.9'	S 17°17.6'	126°42.7'	S 21°48.3'	95°32.5'	S 22°23.1'	13°35.1'	N 2°13.0'
19	152°59.7'	S 17°18.2'	141°44.6'	S 21°48.4'	110°34.7'	S 22°23.1'	28°36.1'	N 2°13.7'
20	167°59.5'	S 17°18.7'	156°46.6'	S 21°48.5'	125°36.8'	S 22°23.1'	43°37.0'	N 2°14.4'
21	182°59.3'	S 17°19.3'	171°48.5'	S 21°48.5'	140°39.0'	S 22°23.0'	58°37.9'	N 2°15.1'
22	197°59.1'	S 17°19.8'	186°50.4'	S 21°48.6'	155°41.1'	S 22°23.0'	73°38.9'	N 2°15.8'
23	212°58.9'	S 17°20.3'	201°52.3'	S 21°48.7'	170°43.3'	S 22°23.0'	88°39.8'	N 2°16.5'

Thu Jan 10, 2019 UTC

UTC	Venus -4.2		Jupiter -1.6		Saturn +0.5		Mars +0.6	
	v = -0.2' d = 0.5'		v = 1.9' d = 0.1'		v = 2.1' d = 0.0'		v = 0.9' d = 0.7'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	227°58.7'	S 17°20.9'	216°54.3'	S 21°48.7'	185°45.4'	S 22°23.0'	103°40.7'	N 2°17.3'
1	242°58.5'	S 17°21.4'	231°56.2'	S 21°48.8'	200°47.5'	S 22°22.9'	118°41.7'	N 2°18.0'
2	257°58.3'	S 17°22.0'	246°58.1'	S 21°48.8'	215°49.7'	S 22°22.9'	133°42.6'	N 2°18.7'
3	272°58.1'	S 17°22.5'	262°00.0'	S 21°48.9'	230°51.8'	S 22°22.9'	148°43.5'	N 2°19.4'
4	287°57.8'	S 17°23.0'	277°02.0'	S 21°49.0'	245°54.0'	S 22°22.9'	163°44.5'	N 2°20.1'
5	302°57.6'	S 17°23.6'	292°03.9'	S 21°49.0'	260°56.1'	S 22°22.8'	178°45.4'	N 2°20.8'
6	317°57.4'	S 17°24.1'	307°05.8'	S 21°49.1'	275°58.3'	S 22°22.8'	193°46.3'	N 2°21.6'
7	332°57.2'	S 17°24.6'	322°07.7'	S 21°49.2'	291°00.4'	S 22°22.8'	208°47.3'	N 2°22.3'
8	347°57.0'	S 17°25.2'	337°09.7'	S 21°49.2'	306°02.6'	S 22°22.8'	223°48.2'	N 2°23.0'
9	2°56.8'	S 17°25.7'	352°11.6'	S 21°49.3'	321°04.7'	S 22°22.7'	238°49.1'	N 2°23.7'
10	17°56.6'	S 17°26.3'	7°13.5'	S 21°49.3'	336°06.9'	S 22°22.7'	253°50.0'	N 2°24.4'
11	32°56.4'	S 17°26.8'	22°15.5'	S 21°49.4'	351°09.0'	S 22°22.7'	268°51.0'	N 2°25.1'
12	47°56.2'	S 17°27.3'	37°17.4'	S 21°49.5'	6°11.2'	S 22°22.7'	283°51.9'	N 2°25.8'
13	62°56.0'	S 17°27.9'	52°19.3'	S 21°49.5'	21°13.3'	S 22°22.6'	298°52.8'	N 2°26.6'
14	77°55.7'	S 17°28.4'	67°21.2'	S 21°49.6'	36°15.5'	S 22°22.6'	313°53.8'	N 2°27.3'
15	92°55.5'	S 17°28.9'	82°23.2'	S 21°49.6'	51°17.6'	S 22°22.6'	328°54.7'	N 2°28.0'
16	107°55.3'	S 17°29.5'	97°25.1'	S 21°49.7'	66°19.8'	S 22°22.6'	343°55.6'	N 2°28.7'
17	122°55.1'	S 17°30.0'	112°27.0'	S 21°49.8'	81°21.9'	S 22°22.6'	358°56.6'	N 2°29.4'
18	137°54.9'	S 17°30.5'	127°28.9'	S 21°49.8'	96°24.1'	S 22°22.5'	13°57.5'	N 2°30.1'
19	152°54.7'	S 17°31.1'	142°30.9'	S 21°49.9'	111°26.2'	S 22°22.5'	28°58.4'	N 2°30.8'
20	167°54.4'	S 17°31.6'	157°32.8'	S 21°49.9'	126°28.3'	S 22°22.5'	43°59.4'	N 2°31.6'
21	182°54.2'	S 17°32.1'	172°34.7'	S 21°50.0'	141°30.5'	S 22°22.5'	59°00.3'	N 2°32.3'
22	197°54.0'	S 17°32.6'	187°36.6'	S 21°50.1'	156°32.6'	S 22°22.4'	74°01.2'	N 2°33.0'
23	212°53.8'	S 17°33.2'	202°38.6'	S 21°50.1'	171°34.8'	S 22°22.4'	89°02.1'	N 2°33.7'

Fri Jan 11, 2019 UTC

UTC	Venus -4.2		Jupiter -1.6		Saturn +0.5		Mars +0.6	
	v = -0.2' d = 0.5'		v = 1.9' d = 0.1'		v = 2.1' d = 0.0'		v = 0.9' d = 0.7'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	227°53.5'	S 17°33.7'	217°40.5'	S 21°50.2'	186°36.9'	S 22°22.4'	104°03.1'	N 2°34.4'
1	242°53.3'	S 17°34.2'	232°42.4'	S 21°50.3'	201°39.1'	S 22°22.4'	119°04.0'	N 2°35.1'
2	257°53.1'	S 17°34.8'	247°44.4'	S 21°50.3'	216°41.2'	S 22°22.3'	134°04.9'	N 2°35.9'
3	272°52.9'	S 17°35.3'	262°46.3'	S 21°50.4'	231°43.4'	S 22°22.3'	149°05.9'	N 2°36.6'
4	287°52.6'	S 17°35.8'	277°48.2'	S 21°50.4'	246°45.5'	S 22°22.3'	164°06.8'	N 2°37.3'
5	302°52.4'	S 17°36.3'	292°50.1'	S 21°50.5'	261°47.7'	S 22°22.3'	179°07.7'	N 2°38.0'
6	317°52.2'	S 17°36.9'	307°52.1'	S 21°50.6'	276°49.8'	S 22°22.2'	194°08.7'	N 2°38.7'
7	332°52.0'	S 17°37.4'	322°54.0'	S 21°50.6'	291°52.0'	S 22°22.2'	209°09.6'	N 2°39.4'
8	347°51.7'	S 17°37.9'	337°55.9'	S 21°50.7'	306°54.1'	S 22°22.2'	224°10.5'	N 2°40.1'
9	2°51.5'	S 17°38.5'	352°57.8'	S 21°50.7'	321°56.3'	S 22°22.2'	239°11.5'	N 2°40.9'
10	17°51.3'	S 17°39.0'	7°59.8'	S 21°50.8'	336°58.4'	S 22°22.1'	254°12.4'	N 2°41.6'
11	32°51.0'	S 17°39.5'	23°01.7'	S 21°50.9'	352°00.6'	S 22°22.1'	269°13.3'	N 2°42.3'
12	47°50.8'	S 17°40.0'	38°03.6'	S 21°50.9'	7°02.7'	S 22°22.1'	284°14.2'	N 2°43.0'
13	62°50.6'	S 17°40.6'	53°05.6'	S 21°51.0'	22°04.9'	S 22°22.1'	299°15.2'	N 2°43.7'
14	77°50.3'	S 17°41.1'	68°07.5'	S 21°51.0'	37°07.0'	S 22°22.0'	314°16.1'	N 2°44.4'
15	92°50.1'	S 17°41.6'	83°09.4'	S 21°51.1'	52°09.2'	S 22°22.0'	329°17.0'	N 2°45.1'
16	107°49.9'	S 17°42.1'	98°11.4'	S 21°51.2'	67°11.3'	S 22°22.0'	344°18.0'	N 2°45.8'
17	122°49.6'	S 17°42.7'	113°13.3'	S 21°51.2'	82°13.4'	S 22°22.0'	359°18.9'	N 2°46.6'
18	137°49.4'	S 17°43.2'	128°15.2'	S 21°51.3'	97°15.6'	S 22°21.9'	14°19.8'	N 2°47.3'
19	152°49.2'	S 17°43.7'	143°17.1'	S 21°51.3'	112°17.7'	S 22°21.9'	29°20.7'	N 2°48.0'
20	167°48.9'	S 17°44.2'	158°19.1'	S 21°51.4'	127°19.9'	S 22°21.9'	44°21.7'	N 2°48.7'
21	182°48.7'	S 17°44.7'	173°21.0'	S 21°51.5'	142°22.0'	S 22°21.9'	59°22.6'	N 2°49.4'
22	197°48.4'	S 17°45.3'	188°22.9'	S 21°51.5'	157°24.2'	S 22°21.8'	74°23.5'	N 2°50.1'
23	212°48.2'	S 17°45.8'	203°24.9'	S 21°51.6'	172°26.3'	S 22°21.8'	89°24.5'	N 2°50.8'

Sat Jan 12, 2019 UTC

UTC	Venus -4.2		Jupiter -1.6		Saturn +0.5		Mars +0.6	
	v = -0.3' d = 0.5'		v = 1.9' d = 0.1'		v = 2.1' d = 0.0'		v = 0.9' d = 0.7'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	227°47.9'	S 17°46.3'	218°26.8'	S 21°51.6'	187°28.5'	S 22°21.8'	104°25.4'	N 2°51.6'
1	242°47.7'	S 17°46.8'	233°28.7'	S 21°51.7'	202°30.6'	S 22°21.8'	119°26.3'	N 2°52.3'
2	257°47.5'	S 17°47.3'	248°30.6'	S 21°51.8'	217°32.8'	S 22°21.7'	134°27.3'	N 2°53.0'
3	272°47.2'	S 17°47.9'	263°32.6'	S 21°51.8'	232°34.9'	S 22°21.7'	149°28.2'	N 2°53.7'
4	287°47.0'	S 17°48.4'	278°34.5'	S 21°51.9'	247°37.1'	S 22°21.7'	164°29.1'	N 2°54.4'
5	302°46.7'	S 17°48.9'	293°36.4'	S 21°51.9'	262°39.2'	S 22°21.7'	179°30.0'	N 2°55.1'
6	317°46.5'	S 17°49.4'	308°38.4'	S 21°52.0'	277°41.4'	S 22°21.6'	194°31.0'	N 2°55.8'
7	332°46.2'	S 17°49.9'	323°40.3'	S 21°52.1'	292°43.5'	S 22°21.6'	209°31.9'	N 2°56.6'
8	347°46.0'	S 17°50.5'	338°42.2'	S 21°52.1'	307°45.7'	S 22°21.6'	224°32.8'	N 2°57.3'
9	2°45.7'	S 17°51.0'	353°44.2'	S 21°52.2'	322°47.8'	S 22°21.6'	239°33.8'	N 2°58.0'
10	17°45.5'	S 17°51.5'	8°46.1'	S 21°52.2'	337°50.0'	S 22°21.5'	254°34.7'	N 2°58.7'
11	32°45.2'	S 17°52.0'	23°48.0'	S 21°52.3'	352°52.1'	S 22°21.5'	269°35.6'	N 2°59.4'
12	47°45.0'	S 17°52.5'	38°50.0'	S 21°52.4'	7°54.3'	S 22°21.5'	284°36.5'	N 3°00.1'
13	62°44.7'	S 17°53.0'	53°51.9'	S 21°52.4'	22°56.4'	S 22°21.5'	299°37.5'	N 3°00.8'
14	77°44.5'	S 17°53.5'	68°53.8'	S 21°52.5'	37°58.6'	S 22°21.4'	314°38.4'	N 3°01.5'
15	92°44.2'	S 17°54.1'	83°55.8'	S 21°52.5'	53°00.7'	S 22°21.4'	329°39.3'	N 3°02.3'
16	107°43.9'	S 17°54.6'	98°57.7'	S 21°52.6'	68°02.9'	S 22°21.4'	344°40.2'	N 3°03.0'
17	122°43.7'	S 17°55.1'	113°59.6'	S 21°52.6'	83°05.0'	S 22°21.4'	359°41.2'	N 3°03.7'
18	137°43.4'	S 17°55.6'	129°01.5'	S 21°52.7'	98°07.2'	S 22°21.3'	14°42.1'	N 3°04.4'
19	152°43.2'	S 17°56.1'	144°03.5'	S 21°52.8'	113°09.3'	S 22°21.3'	29°43.0'	N 3°05.1'
20	167°42.9'	S 17°56.6'	159°05.4'	S 21°52.8'	128°11.5'	S 22°21.3'	44°44.0'	N 3°05.8'
21	182°42.7'	S 17°57.1'	174°07.3'	S 21°52.9'	143°13.6'	S 22°21.3'	59°44.9'	N 3°06.5'
22	197°42.4'	S 17°57.7'	189°09.3'	S 21°52.9'	158°15.8'	S 22°21.2'	74°45.8'	N 3°07.2'
23	212°42.1'	S 17°58.2'	204°11.2'	S 21°53.0'	173°17.9'	S 22°21.2'	89°46.7'	N 3°08.0'

Sun Jan 13, 2019 UTC

UTC	Venus -4.2		Jupiter -1.7		Saturn +0.5		Mars +0.7	
	v = -0.3' d = 0.5'		v = 1.9' d = 0.1'		v = 2.1' d = 0.0'		v = 0.9' d = 0.7'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	227°41.9'	S 17°58.7'	219°13.1'	S 21°53.1'	188°20.0'	S 22°21.2'	104°47.7'	N 3°08.7'
1	242°41.6'	S 17°59.2'	234°15.1'	S 21°53.1'	203°22.2'	S 22°21.2'	119°48.6'	N 3°09.4'
2	257°41.3'	S 17°59.7'	249°17.0'	S 21°53.2'	218°24.3'	S 22°21.1'	134°49.5'	N 3°10.1'
3	272°41.1'	S 18°00.2'	264°18.9'	S 21°53.2'	233°26.5'	S 22°21.1'	149°50.5'	N 3°10.8'
4	287°40.8'	S 18°00.7'	279°20.9'	S 21°53.3'	248°28.6'	S 22°21.1'	164°51.4'	N 3°11.5'
5	302°40.5'	S 18°01.2'	294°22.8'	S 21°53.4'	263°30.8'	S 22°21.1'	179°52.3'	N 3°12.2'
6	317°40.3'	S 18°01.7'	309°24.7'	S 21°53.4'	278°32.9'	S 22°21.0'	194°53.2'	N 3°12.9'
7	332°40.0'	S 18°02.2'	324°26.7'	S 21°53.5'	293°35.1'	S 22°21.0'	209°54.2'	N 3°13.7'
8	347°39.7'	S 18°02.7'	339°28.6'	S 21°53.5'	308°37.2'	S 22°21.0'	224°55.1'	N 3°14.4'
9	2°39.5'	S 18°03.2'	354°30.5'	S 21°53.6'	323°39.4'	S 22°20.9'	239°56.0'	N 3°15.1'
10	17°39.2'	S 18°03.8'	9°32.5'	S 21°53.6'	338°41.5'	S 22°20.9'	254°56.9'	N 3°15.8'
11	32°38.9'	S 18°04.3'	24°34.4'	S 21°53.7'	353°43.7'	S 22°20.9'	269°57.9'	N 3°16.5'
12	47°38.7'	S 18°04.8'	39°36.3'	S 21°53.8'	8°45.8'	S 22°20.9'	284°58.8'	N 3°17.2'
13	62°38.4'	S 18°05.3'	54°38.3'	S 21°53.8'	23°48.0'	S 22°20.8'	299°59.7'	N 3°17.9'
14	77°38.1'	S 18°05.8'	69°40.2'	S 21°53.9'	38°50.1'	S 22°20.8'	315°00.6'	N 3°18.6'
15	92°37.8'	S 18°06.3'	84°42.2'	S 21°53.9'	53°52.3'	S 22°20.8'	330°01.6'	N 3°19.3'
16	107°37.6'	S 18°06.8'	99°44.1'	S 21°54.0'	68°54.4'	S 22°20.8'	345°02.5'	N 3°20.1'
17	122°37.3'	S 18°07.3'	114°46.0'	S 21°54.0'	83°56.6'	S 22°20.7'	0°03.4'	N 3°20.8'
18	137°37.0'	S 18°07.8'	129°48.0'	S 21°54.1'	98°58.7'	S 22°20.7'	15°04.4'	N 3°21.5'
19	152°36.7'	S 18°08.3'	144°49.9'	S 21°54.2'	114°00.9'	S 22°20.7'	30°05.3'	N 3°22.2'
20	167°36.5'	S 18°08.8'	159°51.8'	S 21°54.2'	129°03.0'	S 22°20.7'	45°06.2'	N 3°22.9'
21	182°36.2'	S 18°09.3'	174°53.8'	S 21°54.3'	144°05.2'	S 22°20.6'	60°07.1'	N 3°23.6'
22	197°35.9'	S 18°09.8'	189°55.7'	S 21°54.3'	159°07.3'	S 22°20.6'	75°08.1'	N 3°24.3'
23	212°35.6'	S 18°10.3'	204°57.6'	S 21°54.4'	174°09.5'	S 22°20.6'	90°09.0'	N 3°25.0'

Mon Jan 14, 2019 UTC

UTC	Venus -4.2		Jupiter -1.7		Saturn +0.5		Mars +0.7	
	v = -0.3' d = 0.5'		v = 1.9' d = 0.1'		v = 2.1' d = 0.0'		v = 0.9' d = 0.7'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	227°35.3'	S 18°10.8'	219°59.6'	S 21°54.5'	189°11.6'	S 22°20.6'	105°09.9'	N 3°25.8'
1	242°35.1'	S 18°11.3'	235°01.5'	S 21°54.5'	204°13.8'	S 22°20.5'	120°10.8'	N 3°26.5'
2	257°34.8'	S 18°11.8'	250°03.4'	S 21°54.6'	219°15.9'	S 22°20.5'	135°11.8'	N 3°27.2'
3	272°34.5'	S 18°12.3'	265°05.4'	S 21°54.6'	234°18.1'	S 22°20.5'	150°12.7'	N 3°27.9'
4	287°34.2'	S 18°12.8'	280°07.3'	S 21°54.7'	249°20.2'	S 22°20.5'	165°13.6'	N 3°28.6'
5	302°33.9'	S 18°13.3'	295°09.2'	S 21°54.7'	264°22.4'	S 22°20.4'	180°14.5'	N 3°29.3'
6	317°33.6'	S 18°13.8'	310°11.2'	S 21°54.8'	279°24.5'	S 22°20.4'	195°15.5'	N 3°30.0'
7	332°33.3'	S 18°14.3'	325°13.1'	S 21°54.9'	294°26.7'	S 22°20.4'	210°16.4'	N 3°30.7'
8	347°33.1'	S 18°14.8'	340°15.1'	S 21°54.9'	309°28.8'	S 22°20.4'	225°17.3'	N 3°31.4'
9	2°32.8'	S 18°15.3'	355°17.0'	S 21°55.0'	324°31.0'	S 22°20.3'	240°18.2'	N 3°32.1'
10	17°32.5'	S 18°15.8'	10°18.9'	S 21°55.0'	339°33.1'	S 22°20.3'	255°19.2'	N 3°32.9'
11	32°32.2'	S 18°16.2'	25°20.9'	S 21°55.1'	354°35.3'	S 22°20.3'	270°20.1'	N 3°33.6'
12	47°31.9'	S 18°16.7'	40°22.8'	S 21°55.1'	9°37.4'	S 22°20.3'	285°21.0'	N 3°34.3'
13	62°31.6'	S 18°17.2'	55°24.7'	S 21°55.2'	24°39.6'	S 22°20.2'	300°21.9'	N 3°35.0'
14	77°31.3'	S 18°17.7'	70°26.7'	S 21°55.3'	39°41.7'	S 22°20.2'	315°22.9'	N 3°35.7'
15	92°31.0'	S 18°18.2'	85°28.6'	S 21°55.3'	54°43.9'	S 22°20.2'	330°23.8'	N 3°36.4'
16	107°30.7'	S 18°18.7'	100°30.6'	S 21°55.4'	69°46.0'	S 22°20.2'	345°24.7'	N 3°37.1'
17	122°30.4'	S 18°19.2'	115°32.5'	S 21°55.4'	84°48.2'	S 22°20.1'	0°25.6'	N 3°37.8'
18	137°30.1'	S 18°19.7'	130°34.4'	S 21°55.5'	99°50.3'	S 22°20.1'	15°26.6'	N 3°38.5'
19	152°29.8'	S 18°20.2'	145°36.4'	S 21°55.5'	114°52.5'	S 22°20.1'	30°27.5'	N 3°39.3'
20	167°29.5'	S 18°20.7'	160°38.3'	S 21°55.6'	129°54.6'	S 22°20.1'	45°28.4'	N 3°40.0'
21	182°29.2'	S 18°21.2'	175°40.2'	S 21°55.6'	144°56.8'	S 22°20.0'	60°29.3'	N 3°40.7'
22	197°28.9'	S 18°21.7'	190°42.2'	S 21°55.7'	159°58.9'	S 22°20.0'	75°30.3'	N 3°41.4'
23	212°28.6'	S 18°22.1'	205°44.1'	S 21°55.8'	175°01.1'	S 22°20.0'	90°31.2'	N 3°42.1'

Tue Jan 15, 2019 UTC

UTC	Venus -4.2		Jupiter -1.7		Saturn +0.5		Mars +0.7	
	v = -0.3' d = 0.5'		v = 1.9' d = 0.1'		v = 2.2' d = 0.0'		v = 0.9' d = 0.7'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	227°28.3'	S 18°22.6'	220°46.1'	S 21°55.8'	190°03.2'	S 22°20.0'	105°32.1'	N 3°42.8'
1	242°28.0'	S 18°23.1'	235°48.0'	S 21°55.9'	205°05.4'	S 22°19.9'	120°33.0'	N 3°43.5'
2	257°27.7'	S 18°23.6'	250°49.9'	S 21°55.9'	220°07.5'	S 22°19.9'	135°34.0'	N 3°44.2'
3	272°27.4'	S 18°24.1'	265°51.9'	S 21°56.0'	235°09.7'	S 22°19.9'	150°34.9'	N 3°44.9'
4	287°27.1'	S 18°24.6'	280°53.8'	S 21°56.0'	250°11.8'	S 22°19.9'	165°35.8'	N 3°45.6'
5	302°26.8'	S 18°25.1'	295°55.8'	S 21°56.1'	265°14.0'	S 22°19.8'	180°36.7'	N 3°46.3'
6	317°26.5'	S 18°25.5'	310°57.7'	S 21°56.2'	280°16.1'	S 22°19.8'	195°37.7'	N 3°47.1'
7	332°26.2'	S 18°26.0'	325°59.6'	S 21°56.2'	295°18.3'	S 22°19.8'	210°38.6'	N 3°47.8'
8	347°25.9'	S 18°26.5'	341°01.6'	S 21°56.3'	310°20.4'	S 22°19.7'	225°39.5'	N 3°48.5'
9	2°25.6'	S 18°27.0'	356°03.5'	S 21°56.3'	325°22.6'	S 22°19.7'	240°40.4'	N 3°49.2'
10	17°25.3'	S 18°27.5'	11°05.5'	S 21°56.4'	340°24.7'	S 22°19.7'	255°41.3'	N 3°49.9'
11	32°25.0'	S 18°28.0'	26°07.4'	S 21°56.4'	355°26.9'	S 22°19.7'	270°42.3'	N 3°50.6'
12	47°24.7'	S 18°28.4'	41°09.3'	S 21°56.5'	10°29.0'	S 22°19.6'	285°43.2'	N 3°51.3'
13	62°24.4'	S 18°28.9'	56°11.3'	S 21°56.5'	25°31.2'	S 22°19.6'	300°44.1'	N 3°52.0'
14	77°24.1'	S 18°29.4'	71°13.2'	S 21°56.6'	40°33.3'	S 22°19.6'	315°45.0'	N 3°52.7'
15	92°23.7'	S 18°29.9'	86°15.2'	S 21°56.7'	55°35.5'	S 22°19.6'	330°46.0'	N 3°53.4'
16	107°23.4'	S 18°30.4'	101°17.1'	S 21°56.7'	70°37.6'	S 22°19.5'	345°46.9'	N 3°54.1'
17	122°23.1'	S 18°30.8'	116°19.0'	S 21°56.8'	85°39.8'	S 22°19.5'	0°47.8'	N 3°54.9'
18	137°22.8'	S 18°31.3'	131°21.0'	S 21°56.8'	100°41.9'	S 22°19.5'	15°48.7'	N 3°55.6'
19	152°22.5'	S 18°31.8'	146°22.9'	S 21°56.9'	115°44.1'	S 22°19.5'	30°49.7'	N 3°56.3'
20	167°22.2'	S 18°32.3'	161°24.9'	S 21°56.9'	130°46.2'	S 22°19.4'	45°50.6'	N 3°57.0'
21	182°21.9'	S 18°32.8'	176°26.8'	S 21°57.0'	145°48.4'	S 22°19.4'	60°51.5'	N 3°57.7'
22	197°21.5'	S 18°33.2'	191°28.7'	S 21°57.1'	160°50.5'	S 22°19.4'	75°52.4'	N 3°58.4'
23	212°21.2'	S 18°33.7'	206°30.7'	S 21°57.1'	175°52.7'	S 22°19.4'	90°53.3'	N 3°59.1'

Wed Jan 16, 2019 UTC

UTC	Venus -4.2		Jupiter -1.7		Saturn +0.5		Mars +0.7	
	v = -0.3' d = 0.5'		v = 1.9' d = 0.1'		v = 2.2' d = 0.0'		v = 0.9' d = 0.7'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	227°20.9'	S 18°34.2'	221°32.6'	S 21°57.2'	190°54.8'	S 22°19.3'	105°54.3'	N 3°59.8'
1	242°20.6'	S 18°34.7'	236°34.6'	S 21°57.2'	205°57.0'	S 22°19.3'	120°55.2'	N 4°00.5'
2	257°20.3'	S 18°35.1'	251°36.5'	S 21°57.3'	220°59.1'	S 22°19.3'	135°56.1'	N 4°01.2'
3	272°19.9'	S 18°35.6'	266°38.4'	S 21°57.3'	236°01.3'	S 22°19.3'	150°57.0'	N 4°01.9'
4	287°19.6'	S 18°36.1'	281°40.4'	S 21°57.4'	251°03.4'	S 22°19.2'	165°58.0'	N 4°02.6'
5	302°19.3'	S 18°36.6'	296°42.3'	S 21°57.4'	266°05.6'	S 22°19.2'	180°58.9'	N 4°03.4'
6	317°19.0'	S 18°37.0'	311°44.3'	S 21°57.5'	281°07.7'	S 22°19.2'	195°59.8'	N 4°04.1'
7	332°18.7'	S 18°37.5'	326°46.2'	S 21°57.5'	296°09.9'	S 22°19.2'	211°00.7'	N 4°04.8'
8	347°18.3'	S 18°38.0'	341°48.2'	S 21°57.6'	311°12.0'	S 22°19.1'	226°01.6'	N 4°05.5'
9	2°18.0'	S 18°38.4'	356°50.1'	S 21°57.7'	326°14.2'	S 22°19.1'	241°02.6'	N 4°06.2'
10	17°17.7'	S 18°38.9'	11°52.0'	S 21°57.7'	341°16.3'	S 22°19.1'	256°03.5'	N 4°06.9'
11	32°17.4'	S 18°39.4'	26°54.0'	S 21°57.8'	356°18.5'	S 22°19.0'	271°04.4'	N 4°07.6'
12	47°17.0'	S 18°39.9'	41°55.9'	S 21°57.8'	11°20.6'	S 22°19.0'	286°05.3'	N 4°08.3'
13	62°16.7'	S 18°40.3'	56°57.9'	S 21°57.9'	26°22.8'	S 22°19.0'	301°06.3'	N 4°09.0'
14	77°16.4'	S 18°40.8'	71°59.8'	S 21°57.9'	41°24.9'	S 22°19.0'	316°07.2'	N 4°09.7'
15	92°16.0'	S 18°41.3'	87°01.8'	S 21°58.0'	56°27.1'	S 22°18.9'	331°08.1'	N 4°10.4'
16	107°15.7'	S 18°41.7'	102°03.7'	S 21°58.0'	71°29.2'	S 22°18.9'	346°09.0'	N 4°11.1'
17	122°15.4'	S 18°42.2'	117°05.6'	S 21°58.1'	86°31.4'	S 22°18.9'	1°09.9'	N 4°11.8'
18	137°15.0'	S 18°42.7'	132°07.6'	S 21°58.2'	101°33.6'	S 22°18.9'	16°10.9'	N 4°12.5'
19	152°14.7'	S 18°43.1'	147°09.5'	S 21°58.2'	116°35.7'	S 22°18.8'	31°11.8'	N 4°13.3'
20	167°14.4'	S 18°43.6'	162°11.5'	S 21°58.3'	131°37.9'	S 22°18.8'	46°12.7'	N 4°14.0'
21	182°14.0'	S 18°44.1'	177°13.4'	S 21°58.3'	146°40.0'	S 22°18.8'	61°13.6'	N 4°14.7'
22	197°13.7'	S 18°44.5'	192°15.4'	S 21°58.4'	161°42.2'	S 22°18.8'	76°14.6'	N 4°15.4'
23	212°13.4'	S 18°45.0'	207°17.3'	S 21°58.4'	176°44.3'	S 22°18.7'	91°15.5'	N 4°16.1'

Thu Jan 17, 2019 UTC

UTC	Venus -4.2		Jupiter -1.7		Saturn +0.5		Mars +0.7	
	v = -0.3' d = 0.5'		v = 1.9' d = 0.1'		v = 2.2' d = 0.0'		v = 0.9' d = 0.7'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	227°13.0'	S 18°45.5'	222°19.3'	S 21°58.5'	191°46.5'	S 22°18.7'	106°16.4'	N 4°16.8'
1	242°12.7'	S 18°45.9'	237°21.2'	S 21°58.5'	206°48.6'	S 22°18.7'	121°17.3'	N 4°17.5'
2	257°12.4'	S 18°46.4'	252°23.1'	S 21°58.6'	221°50.8'	S 22°18.7'	136°18.2'	N 4°18.2'
3	272°12.0'	S 18°46.8'	267°25.1'	S 21°58.6'	236°52.9'	S 22°18.6'	151°19.2'	N 4°18.9'
4	287°11.7'	S 18°47.3'	282°27.0'	S 21°58.7'	251°55.1'	S 22°18.6'	166°20.1'	N 4°19.6'
5	302°11.3'	S 18°47.8'	297°29.0'	S 21°58.7'	266°57.2'	S 22°18.6'	181°21.0'	N 4°20.3'
6	317°11.0'	S 18°48.2'	312°30.9'	S 21°58.8'	281°59.4'	S 22°18.6'	196°21.9'	N 4°21.0'
7	332°10.7'	S 18°48.7'	327°32.9'	S 21°58.9'	297°01.5'	S 22°18.5'	211°22.8'	N 4°21.7'
8	347°10.3'	S 18°49.1'	342°34.8'	S 21°58.9'	312°03.7'	S 22°18.5'	226°23.8'	N 4°22.4'
9	2°10.0'	S 18°49.6'	357°36.8'	S 21°59.0'	327°05.8'	S 22°18.5'	241°24.7'	N 4°23.1'
10	17°09.6'	S 18°50.1'	12°38.7'	S 21°59.0'	342°08.0'	S 22°18.4'	256°25.6'	N 4°23.9'
11	32°09.3'	S 18°50.5'	27°40.7'	S 21°59.1'	357°10.1'	S 22°18.4'	271°26.5'	N 4°24.6'
12	47°08.9'	S 18°51.0'	42°42.6'	S 21°59.1'	12°12.3'	S 22°18.4'	286°27.4'	N 4°25.3'
13	62°08.6'	S 18°51.4'	57°44.5'	S 21°59.2'	27°14.4'	S 22°18.4'	301°28.4'	N 4°26.0'
14	77°08.2'	S 18°51.9'	72°46.5'	S 21°59.2'	42°16.6'	S 22°18.3'	316°29.3'	N 4°26.7'
15	92°07.9'	S 18°52.3'	87°48.4'	S 21°59.3'	57°18.7'	S 22°18.3'	331°30.2'	N 4°27.4'
16	107°07.5'	S 18°52.8'	102°50.4'	S 21°59.3'	72°20.9'	S 22°18.3'	346°31.1'	N 4°28.1'
17	122°07.2'	S 18°53.2'	117°52.3'	S 21°59.4'	87°23.0'	S 22°18.3'	1°32.0'	N 4°28.8'
18	137°06.8'	S 18°53.7'	132°54.3'	S 21°59.4'	102°25.2'	S 22°18.2'	16°33.0'	N 4°29.5'
19	152°06.5'	S 18°54.1'	147°56.2'	S 21°59.5'	117°27.3'	S 22°18.2'	31°33.9'	N 4°30.2'
20	167°06.1'	S 18°54.6'	162°58.2'	S 21°59.6'	132°29.5'	S 22°18.2'	46°34.8'	N 4°30.9'
21	182°05.8'	S 18°55.0'	178°00.1'	S 21°59.6'	147°31.7'	S 22°18.2'	61°35.7'	N 4°31.6'
22	197°05.4'	S 18°55.5'	193°02.1'	S 21°59.7'	162°33.8'	S 22°18.1'	76°36.6'	N 4°32.3'
23	212°05.1'	S 18°55.9'	208°04.0'	S 21°59.7'	177°36.0'	S 22°18.1'	91°37.6'	N 4°33.0'

Fri Jan 18, 2019 UTC

UTC	Venus -4.2		Jupiter -1.7		Saturn +0.5		Mars +0.7	
	v = -0.4' d = 0.4'		v = 1.9' d = 0.1'		v = 2.2' d = 0.0'		v = 0.9' d = 0.7'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	227°04.7'	S 18°56.4'	223°06.0'	S 21°59.8'	192°38.1'	S 22°18.1'	106°38.5'	N 4°33.7'
1	242°04.4'	S 18°56.8'	238°07.9'	S 21°59.8'	207°40.3'	S 22°18.1'	121°39.4'	N 4°34.4'
2	257°04.0'	S 18°57.3'	253°09.9'	S 21°59.9'	222°42.4'	S 22°18.0'	136°40.3'	N 4°35.1'
3	272°03.7'	S 18°57.7'	268°11.8'	S 21°59.9'	237°44.6'	S 22°18.0'	151°41.2'	N 4°35.8'
4	287°03.3'	S 18°58.2'	283°13.8'	S 21°60.0'	252°46.7'	S 22°18.0'	166°42.2'	N 4°36.5'
5	302°02.9'	S 18°58.6'	298°15.7'	S 22°00.0'	267°48.9'	S 22°17.9'	181°43.1'	N 4°37.3'
6	317°02.6'	S 18°59.1'	313°17.7'	S 22°00.1'	282°51.0'	S 22°17.9'	196°44.0'	N 4°38.0'
7	332°02.2'	S 18°59.5'	328°19.6'	S 22°00.1'	297°53.2'	S 22°17.9'	211°44.9'	N 4°38.7'
8	347°01.9'	S 18°60.0'	343°21.6'	S 22°00.2'	312°55.3'	S 22°17.9'	226°45.8'	N 4°39.4'
9	2°01.5'	S 19°00.4'	358°23.5'	S 22°00.2'	327°57.5'	S 22°17.8'	241°46.8'	N 4°40.1'
10	17°01.1'	S 19°00.9'	13°25.4'	S 22°00.3'	342°59.6'	S 22°17.8'	256°47.7'	N 4°40.8'
11	32°00.8'	S 19°01.3'	28°27.4'	S 22°00.4'	358°01.8'	S 22°17.8'	271°48.6'	N 4°41.5'
12	47°00.4'	S 19°01.7'	43°29.3'	S 22°00.4'	13°03.9'	S 22°17.8'	286°49.5'	N 4°42.2'
13	62°00.1'	S 19°02.2'	58°31.3'	S 22°00.5'	28°06.1'	S 22°17.7'	301°50.4'	N 4°42.9'
14	76°59.7'	S 19°02.6'	73°33.2'	S 22°00.5'	43°08.2'	S 22°17.7'	316°51.3'	N 4°43.6'
15	91°59.3'	S 19°03.1'	88°35.2'	S 22°00.6'	58°10.4'	S 22°17.7'	331°52.3'	N 4°44.3'
16	106°59.0'	S 19°03.5'	103°37.1'	S 22°00.6'	73°12.6'	S 22°17.7'	346°53.2'	N 4°45.0'
17	121°58.6'	S 19°04.0'	118°39.1'	S 22°00.7'	88°14.7'	S 22°17.6'	1°54.1'	N 4°45.7'
18	136°58.2'	S 19°04.4'	133°41.0'	S 22°00.7'	103°16.9'	S 22°17.6'	16°55.0'	N 4°46.4'
19	151°57.9'	S 19°04.8'	148°43.0'	S 22°00.8'	118°19.0'	S 22°17.6'	31°55.9'	N 4°47.1'
20	166°57.5'	S 19°05.3'	163°44.9'	S 22°00.8'	133°21.2'	S 22°17.6'	46°56.9'	N 4°47.8'
21	181°57.1'	S 19°05.7'	178°46.9'	S 22°00.9'	148°23.3'	S 22°17.5'	61°57.8'	N 4°48.5'
22	196°56.7'	S 19°06.1'	193°48.8'	S 22°00.9'	163°25.5'	S 22°17.5'	76°58.7'	N 4°49.2'
23	211°56.4'	S 19°06.6'	208°50.8'	S 22°01.0'	178°27.6'	S 22°17.5'	91°59.6'	N 4°49.9'

Sat Jan 19, 2019 UTC

UTC	Venus -4.2 v = -0.4' d = 0.4'		Jupiter -1.7 v = 2.0' d = 0.1'		Saturn +0.5 v = 2.2' d = 0.0'		Mars +0.7 v = 0.9' d = 0.7'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	226°56.0'	S 19°07.0'	223°52.8'	S 22°01.0'	193°29.8'	S 22°17.4'	107°00.5'	N 4°50.6'
1	241°55.6'	S 19°07.4'	238°54.7'	S 22°01.1'	208°31.9'	S 22°17.4'	122°01.4'	N 4°51.3'
2	256°55.3'	S 19°07.9'	253°56.7'	S 22°01.1'	223°34.1'	S 22°17.4'	137°02.4'	N 4°52.0'
3	271°54.9'	S 19°08.3'	268°58.6'	S 22°01.2'	238°36.2'	S 22°17.4'	152°03.3'	N 4°52.7'
4	286°54.5'	S 19°08.8'	284°00.6'	S 22°01.2'	253°38.4'	S 22°17.3'	167°04.2'	N 4°53.4'
5	301°54.1'	S 19°09.2'	299°02.5'	S 22°01.3'	268°40.5'	S 22°17.3'	182°05.1'	N 4°54.1'
6	316°53.8'	S 19°09.6'	314°04.5'	S 22°01.4'	283°42.7'	S 22°17.3'	197°06.0'	N 4°54.8'
7	331°53.4'	S 19°10.0'	329°06.4'	S 22°01.4'	298°44.9'	S 22°17.3'	212°06.9'	N 4°55.5'
8	346°53.0'	S 19°10.5'	344°08.4'	S 22°01.5'	313°47.0'	S 22°17.2'	227°07.9'	N 4°56.2'
9	1°52.6'	S 19°10.9'	359°10.3'	S 22°01.5'	328°49.2'	S 22°17.2'	242°08.8'	N 4°56.9'
10	16°52.2'	S 19°11.3'	14°12.3'	S 22°01.6'	343°51.3'	S 22°17.2'	257°09.7'	N 4°57.6'
11	31°51.9'	S 19°11.8'	29°14.2'	S 22°01.6'	358°53.5'	S 22°17.2'	272°10.6'	N 4°58.4'
12	46°51.5'	S 19°12.2'	44°16.2'	S 22°01.7'	13°55.6'	S 22°17.1'	287°11.5'	N 4°59.1'
13	61°51.1'	S 19°12.6'	59°18.1'	S 22°01.7'	28°57.8'	S 22°17.1'	302°12.5'	N 4°59.8'
14	76°50.7'	S 19°13.0'	74°20.1'	S 22°01.8'	43°59.9'	S 22°17.1'	317°13.4'	N 5°00.5'
15	91°50.3'	S 19°13.5'	89°22.0'	S 22°01.8'	59°02.1'	S 22°17.0'	332°14.3'	N 5°01.2'
16	106°50.0'	S 19°13.9'	104°24.0'	S 22°01.9'	74°04.2'	S 22°17.0'	347°15.2'	N 5°01.9'
17	121°49.6'	S 19°14.3'	119°25.9'	S 22°01.9'	89°06.4'	S 22°17.0'	2°16.1'	N 5°02.6'
18	136°49.2'	S 19°14.8'	134°27.9'	S 22°02.0'	104°08.5'	S 22°17.0'	17°17.0'	N 5°03.3'
19	151°48.8'	S 19°15.2'	149°29.8'	S 22°02.0'	119°10.7'	S 22°16.9'	32°18.0'	N 5°04.0'
20	166°48.4'	S 19°15.6'	164°31.8'	S 22°02.1'	134°12.9'	S 22°16.9'	47°18.9'	N 5°04.7'
21	181°48.0'	S 19°16.0'	179°33.7'	S 22°02.1'	149°15.0'	S 22°16.9'	62°19.8'	N 5°05.4'
22	196°47.6'	S 19°16.4'	194°35.7'	S 22°02.2'	164°17.2'	S 22°16.9'	77°20.7'	N 5°06.1'
23	211°47.3'	S 19°16.9'	209°37.7'	S 22°02.2'	179°19.3'	S 22°16.8'	92°21.6'	N 5°06.8'

Sun Jan 20, 2019 UTC

UTC	Venus -4.2 v = -0.4' d = 0.4'		Jupiter -1.7 v = 2.0' d = 0.1'		Saturn +0.6 v = 2.2' d = 0.0'		Mars +0.7 v = 0.9' d = 0.7'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	226°46.9'	S 19°17.3'	224°39.6'	S 22°02.3'	194°21.5'	S 22°16.8'	107°22.5'	N 5°07.5'
1	241°46.5'	S 19°17.7'	239°41.6'	S 22°02.3'	209°23.6'	S 22°16.8'	122°23.4'	N 5°08.2'
2	256°46.1'	S 19°18.1'	254°43.5'	S 22°02.4'	224°25.8'	S 22°16.8'	137°24.4'	N 5°08.9'
3	271°45.7'	S 19°18.5'	269°45.5'	S 22°02.4'	239°27.9'	S 22°16.7'	152°25.3'	N 5°09.6'
4	286°45.3'	S 19°19.0'	284°47.4'	S 22°02.5'	254°30.1'	S 22°16.7'	167°26.2'	N 5°10.3'
5	301°44.9'	S 19°19.4'	299°49.4'	S 22°02.5'	269°32.2'	S 22°16.7'	182°27.1'	N 5°11.0'
6	316°44.5'	S 19°19.8'	314°51.3'	S 22°02.6'	284°34.4'	S 22°16.6'	197°28.0'	N 5°11.7'
7	331°44.1'	S 19°20.2'	329°53.3'	S 22°02.6'	299°36.6'	S 22°16.6'	212°28.9'	N 5°12.4'
8	346°43.7'	S 19°20.6'	344°55.2'	S 22°02.7'	314°38.7'	S 22°16.6'	227°29.9'	N 5°13.1'
9	1°43.3'	S 19°21.0'	359°57.2'	S 22°02.7'	329°40.9'	S 22°16.6'	242°30.8'	N 5°13.8'
10	16°42.9'	S 19°21.5'	14°59.2'	S 22°02.8'	344°43.0'	S 22°16.5'	257°31.7'	N 5°14.5'
11	31°42.5'	S 19°21.9'	30°01.1'	S 22°02.8'	359°45.2'	S 22°16.5'	272°32.6'	N 5°15.2'
12	46°42.1'	S 19°22.3'	45°03.1'	S 22°02.9'	14°47.3'	S 22°16.5'	287°33.5'	N 5°15.9'
13	61°41.8'	S 19°22.7'	60°05.0'	S 22°02.9'	29°49.5'	S 22°16.5'	302°34.4'	N 5°16.6'
14	76°41.4'	S 19°23.1'	75°07.0'	S 22°03.0'	44°51.6'	S 22°16.4'	317°35.4'	N 5°17.3'
15	91°41.0'	S 19°23.5'	90°08.9'	S 22°03.0'	59°53.8'	S 22°16.4'	332°36.3'	N 5°18.0'
16	106°40.6'	S 19°23.9'	105°10.9'	S 22°03.1'	74°55.9'	S 22°16.4'	347°37.2'	N 5°18.7'
17	121°40.2'	S 19°24.3'	120°12.9'	S 22°03.1'	89°58.1'	S 22°16.4'	2°38.1'	N 5°19.4'
18	136°39.8'	S 19°24.8'	135°14.8'	S 22°03.2'	105°00.3'	S 22°16.3'	17°39.0'	N 5°20.1'
19	151°39.3'	S 19°25.2'	150°16.8'	S 22°03.2'	120°02.4'	S 22°16.3'	32°39.9'	N 5°20.8'
20	166°38.9'	S 19°25.6'	165°18.7'	S 22°03.3'	135°04.6'	S 22°16.3'	47°40.8'	N 5°21.5'
21	181°38.5'	S 19°26.0'	180°20.7'	S 22°03.3'	150°06.7'	S 22°16.2'	62°41.8'	N 5°22.2'
22	196°38.1'	S 19°26.4'	195°22.6'	S 22°03.4'	165°08.9'	S 22°16.2'	77°42.7'	N 5°22.9'
23	211°37.7'	S 19°26.8'	210°24.6'	S 22°03.4'	180°11.0'	S 22°16.2'	92°43.6'	N 5°23.6'

Mon Jan 21, 2019 UTC

UTC	Venus -4.2 v = -0.4' d = 0.4'		Jupiter -1.7 v = 2.0' d = 0.0'		Saturn +0.6 v = 2.2' d = 0.0'		Mars +0.8 v = 0.9' d = 0.7'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	226°37.3'	S 19°27.2'	225°26.6'	S 22°03.5'	195°13.2'	S 22°16.2'	107°44.5'	N 5°24.3'
1	241°36.9'	S 19°27.6'	240°28.5'	S 22°03.5'	210°15.3'	S 22°16.1'	122°45.4'	N 5°25.0'
2	256°36.5'	S 19°28.0'	255°30.5'	S 22°03.6'	225°17.5'	S 22°16.1'	137°46.3'	N 5°25.7'
3	271°36.1'	S 19°28.4'	270°32.4'	S 22°03.6'	240°19.7'	S 22°16.1'	152°47.2'	N 5°26.4'
4	286°35.7'	S 19°28.8'	285°34.4'	S 22°03.7'	255°21.8'	S 22°16.1'	167°48.2'	N 5°27.1'
5	301°35.3'	S 19°29.2'	300°36.3'	S 22°03.7'	270°24.0'	S 22°16.0'	182°49.1'	N 5°27.8'
6	316°34.9'	S 19°29.6'	315°38.3'	S 22°03.8'	285°26.1'	S 22°16.0'	197°50.0'	N 5°28.5'
7	331°34.5'	S 19°30.0'	330°40.3'	S 22°03.8'	300°28.3'	S 22°16.0'	212°50.9'	N 5°29.2'
8	346°34.1'	S 19°30.4'	345°42.2'	S 22°03.9'	315°30.4'	S 22°16.0'	227°51.8'	N 5°29.9'
9	1°33.6'	S 19°30.8'	0°44.2'	S 22°03.9'	330°32.6'	S 22°15.9'	242°52.7'	N 5°30.6'
10	16°33.2'	S 19°31.2'	15°46.1'	S 22°04.0'	345°34.7'	S 22°15.9'	257°53.6'	N 5°31.3'
11	31°32.8'	S 19°31.6'	30°48.1'	S 22°04.0'	0°36.9'	S 22°15.9'	272°54.6'	N 5°32.0'
12	46°32.4'	S 19°32.0'	45°50.1'	S 22°04.1'	15°39.1'	S 22°15.8'	287°55.5'	N 5°32.7'
13	61°32.0'	S 19°32.4'	60°52.0'	S 22°04.1'	30°41.2'	S 22°15.8'	302°56.4'	N 5°33.4'
14	76°31.6'	S 19°32.8'	75°54.0'	S 22°04.2'	45°43.4'	S 22°15.8'	317°57.3'	N 5°34.1'
15	91°31.2'	S 19°33.2'	90°55.9'	S 22°04.2'	60°45.5'	S 22°15.8'	332°58.2'	N 5°34.8'
16	106°30.7'	S 19°33.6'	105°57.9'	S 22°04.3'	75°47.7'	S 22°15.7'	347°59.1'	N 5°35.5'
17	121°30.3'	S 19°34.0'	120°59.8'	S 22°04.3'	90°49.8'	S 22°15.7'	3°00.0'	N 5°36.2'
18	136°29.9'	S 19°34.4'	136°01.8'	S 22°04.4'	105°52.0'	S 22°15.7'	18°01.0'	N 5°36.9'
19	151°29.5'	S 19°34.8'	151°03.8'	S 22°04.4'	120°54.1'	S 22°15.7'	33°01.9'	N 5°37.5'
20	166°29.1'	S 19°35.2'	166°05.7'	S 22°04.5'	135°56.3'	S 22°15.6'	48°02.8'	N 5°38.2'
21	181°28.7'	S 19°35.6'	181°07.7'	S 22°04.5'	150°58.5'	S 22°15.6'	63°03.7'	N 5°38.9'
22	196°28.2'	S 19°36.0'	196°09.7'	S 22°04.6'	166°00.6'	S 22°15.6'	78°04.6'	N 5°39.6'
23	211°27.8'	S 19°36.4'	211°11.6'	S 22°04.6'	181°02.8'	S 22°15.5'	93°05.5'	N 5°40.3'

Tue Jan 22, 2019 UTC

UTC	Venus -4.2 v = -0.4' d = 0.4'		Jupiter -1.7 v = 2.0' d = 0.0'		Saturn +0.6 v = 2.2' d = 0.0'		Mars +0.8 v = 0.9' d = 0.7'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	226°27.4'	S 19°36.7'	226°13.6'	S 22°04.7'	196°04.9'	S 22°15.5'	108°06.4'	N 5°41.0'
1	241°27.0'	S 19°37.1'	241°15.5'	S 22°04.7'	211°07.1'	S 22°15.5'	123°07.3'	N 5°41.7'
2	256°26.5'	S 19°37.5'	256°17.5'	S 22°04.8'	226°09.2'	S 22°15.5'	138°08.3'	N 5°42.4'
3	271°26.1'	S 19°37.9'	271°19.5'	S 22°04.8'	241°11.4'	S 22°15.4'	153°09.2'	N 5°43.1'
4	286°25.7'	S 19°38.3'	286°21.4'	S 22°04.9'	256°13.6'	S 22°15.4'	168°10.1'	N 5°43.8'
5	301°25.3'	S 19°38.7'	301°23.4'	S 22°04.9'	271°15.7'	S 22°15.4'	183°11.0'	N 5°44.5'
6	316°24.8'	S 19°39.1'	316°25.3'	S 22°05.0'	286°17.9'	S 22°15.4'	198°11.9'	N 5°45.2'
7	331°24.4'	S 19°39.5'	331°27.3'	S 22°05.0'	301°20.0'	S 22°15.3'	213°12.8'	N 5°45.9'
8	346°24.0'	S 19°39.8'	346°29.3'	S 22°05.1'	316°22.2'	S 22°15.3'	228°13.7'	N 5°46.6'
9	1°23.6'	S 19°40.2'	1°31.2'	S 22°05.1'	331°24.3'	S 22°15.3'	243°14.6'	N 5°47.3'
10	16°23.1'	S 19°40.6'	16°33.2'	S 22°05.2'	346°26.5'	S 22°15.2'	258°15.6'	N 5°48.0'
11	31°22.7'	S 19°41.0'	31°35.2'	S 22°05.2'	1°28.7'	S 22°15.2'	273°16.5'	N 5°48.7'
12	46°22.3'	S 19°41.4'	46°37.1'	S 22°05.3'	16°30.8'	S 22°15.2'	288°17.4'	N 5°49.4'
13	61°21.9'	S 19°41.8'	61°39.1'	S 22°05.3'	31°33.0'	S 22°15.2'	303°18.3'	N 5°50.1'
14	76°21.4'	S 19°42.1'	76°41.0'	S 22°05.4'	46°35.1'	S 22°15.1'	318°19.2'	N 5°50.8'
15	91°21.0'	S 19°42.5'	91°43.0'	S 22°05.4'	61°37.3'	S 22°15.1'	333°20.1'	N 5°51.5'
16	106°20.6'	S 19°42.9'	106°45.0'	S 22°05.5'	76°39.4'	S 22°15.1'	348°21.0'	N 5°52.2'
17	121°20.1'	S 19°43.3'	121°46.9'	S 22°05.5'	91°41.6'	S 22°15.1'	3°21.9'	N 5°52.9'
18	136°19.7'	S 19°43.7'	136°48.9'	S 22°05.6'	106°43.8'	S 22°15.0'	18°22.8'	N 5°53.6'
19	151°19.3'	S 19°44.0'	151°50.9'	S 22°05.6'	121°45.9'	S 22°15.0'	33°23.8'	N 5°54.3'
20	166°18.8'	S 19°44.4'	166°52.8'	S 22°05.7'	136°48.1'	S 22°15.0'	48°24.7'	N 5°55.0'
21	181°18.4'	S 19°44.8'	181°54.8'	S 22°05.7'	151°50.2'	S 22°15.0'	63°25.6'	N 5°55.7'
22	196°17.9'	S 19°45.2'	196°56.7'	S 22°05.8'	166°52.4'	S 22°14.9'	78°26.5'	N 5°56.3'
23	211°17.5'	S 19°45.5'	211°58.7'	S 22°05.8'	181°54.5'	S 22°14.9'	93°27.4'	N 5°57.0'

Wed Jan 23, 2019 UTC

UTC	Venus -4.2 v = -0.4' d = 0.4'		Jupiter -1.7 v = 2.0' d = 0.0'		Saturn +0.6 v = 2.2' d = 0.0'		Mars +0.8 v = 0.9' d = 0.7'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	226°17.1'	S 19°45.9'	227°00.7'	S 22°05.9'	196°56.7'	S 22°14.9'	108°28.3'	N 5°57.7'
1	241°16.6'	S 19°46.3'	242°02.6'	S 22°05.9'	211°58.9'	S 22°14.8'	123°29.2'	N 5°58.4'
2	256°16.2'	S 19°46.7'	257°04.6'	S 22°06.0'	227°01.0'	S 22°14.8'	138°30.1'	N 5°59.1'
3	271°15.8'	S 19°47.0'	272°06.6'	S 22°06.0'	242°03.2'	S 22°14.8'	153°31.0'	N 5°59.8'
4	286°15.3'	S 19°47.4'	287°08.5'	S 22°06.1'	257°05.3'	S 22°14.8'	168°32.0'	N 6°00.5'
5	301°14.9'	S 19°47.8'	302°10.5'	S 22°06.1'	272°07.5'	S 22°14.7'	183°32.9'	N 6°01.2'
6	316°14.4'	S 19°48.1'	317°12.5'	S 22°06.2'	287°09.6'	S 22°14.7'	198°33.8'	N 6°01.9'
7	331°14.0'	S 19°48.5'	332°14.4'	S 22°06.2'	302°11.8'	S 22°14.7'	213°34.7'	N 6°02.6'
8	346°13.6'	S 19°48.9'	347°16.4'	S 22°06.2'	317°14.0'	S 22°14.7'	228°35.6'	N 6°03.3'
9	1°13.1'	S 19°49.2'	2°18.4'	S 22°06.3'	332°16.1'	S 22°14.6'	243°36.5'	N 6°04.0'
10	16°12.7'	S 19°49.6'	17°20.3'	S 22°06.3'	347°18.3'	S 22°14.6'	258°37.4'	N 6°04.7'
11	31°12.2'	S 19°50.0'	32°22.3'	S 22°06.4'	2°20.4'	S 22°14.6'	273°38.3'	N 6°05.4'
12	46°11.8'	S 19°50.3'	47°24.3'	S 22°06.4'	17°22.6'	S 22°14.5'	288°39.2'	N 6°06.1'
13	61°11.3'	S 19°50.7'	62°26.2'	S 22°06.5'	32°24.7'	S 22°14.5'	303°40.2'	N 6°06.8'
14	76°10.9'	S 19°51.1'	77°28.2'	S 22°06.5'	47°26.9'	S 22°14.5'	318°41.1'	N 6°07.5'
15	91°10.4'	S 19°51.4'	92°30.2'	S 22°06.6'	62°29.1'	S 22°14.5'	333°42.0'	N 6°08.2'
16	106°10.0'	S 19°51.8'	107°32.1'	S 22°06.6'	77°31.2'	S 22°14.4'	348°42.9'	N 6°08.8'
17	121°09.5'	S 19°52.2'	122°34.1'	S 22°06.7'	92°33.4'	S 22°14.4'	3°43.8'	N 6°09.5'
18	136°09.1'	S 19°52.5'	137°36.1'	S 22°06.7'	107°35.5'	S 22°14.4'	18°44.7'	N 6°10.2'
19	151°08.6'	S 19°52.9'	152°38.0'	S 22°06.8'	122°37.7'	S 22°14.4'	33°45.6'	N 6°10.9'
20	166°08.2'	S 19°53.2'	167°40.0'	S 22°06.8'	137°39.9'	S 22°14.3'	48°46.5'	N 6°11.6'
21	181°07.7'	S 19°53.6'	182°42.0'	S 22°06.9'	152°42.0'	S 22°14.3'	63°47.4'	N 6°12.3'
22	196°07.3'	S 19°54.0'	197°43.9'	S 22°06.9'	167°44.2'	S 22°14.3'	78°48.3'	N 6°13.0'
23	211°06.8'	S 19°54.3'	212°45.9'	S 22°07.0'	182°46.3'	S 22°14.2'	93°49.3'	N 6°13.7'

Thu Jan 24, 2019 UTC

UTC	Venus -4.2 v = -0.5' d = 0.3'		Jupiter -1.7 v = 2.0' d = 0.0'		Saturn +0.6 v = 2.2' d = 0.0'		Mars +0.8 v = 0.9' d = 0.7'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	226°06.4'	S 19°54.7'	227°47.9'	S 22°07.0'	197°48.5'	S 22°14.2'	108°50.2'	N 6°14.4'
1	241°05.9'	S 19°55.0'	242°49.8'	S 22°07.1'	212°50.6'	S 22°14.2'	123°51.1'	N 6°15.1'
2	256°05.5'	S 19°55.4'	257°51.8'	S 22°07.1'	227°52.8'	S 22°14.2'	138°52.0'	N 6°15.8'
3	271°05.0'	S 19°55.7'	272°53.8'	S 22°07.2'	242°55.0'	S 22°14.1'	153°52.9'	N 6°16.5'
4	286°04.6'	S 19°56.1'	287°55.7'	S 22°07.2'	257°57.1'	S 22°14.1'	168°53.8'	N 6°17.2'
5	301°04.1'	S 19°56.4'	302°57.7'	S 22°07.2'	272°59.3'	S 22°14.1'	183°54.7'	N 6°17.9'
6	316°03.6'	S 19°56.8'	317°59.7'	S 22°07.3'	288°01.4'	S 22°14.1'	198°55.6'	N 6°18.5'
7	331°03.2'	S 19°57.1'	333°01.6'	S 22°07.3'	303°03.6'	S 22°14.0'	213°56.5'	N 6°19.2'
8	346°02.7'	S 19°57.5'	348°03.6'	S 22°07.4'	318°05.8'	S 22°14.0'	228°57.4'	N 6°19.9'
9	1°02.3'	S 19°57.8'	3°05.6'	S 22°07.4'	333°07.9'	S 22°14.0'	243°58.3'	N 6°20.6'
10	16°01.8'	S 19°58.2'	18°07.5'	S 22°07.5'	348°10.1'	S 22°13.9'	258°59.2'	N 6°21.3'
11	31°01.4'	S 19°58.5'	33°09.5'	S 22°07.5'	3°12.2'	S 22°13.9'	274°00.2'	N 6°22.0'
12	46°00.9'	S 19°58.9'	48°11.5'	S 22°07.6'	18°14.4'	S 22°13.9'	289°01.1'	N 6°22.7'
13	61°00.4'	S 19°59.2'	63°13.5'	S 22°07.6'	33°16.6'	S 22°13.9'	304°02.0'	N 6°23.4'
14	75°59.9'	S 19°59.6'	78°15.4'	S 22°07.7'	48°18.7'	S 22°13.8'	319°02.9'	N 6°24.1'
15	90°59.5'	S 19°59.9'	93°17.4'	S 22°07.7'	63°20.9'	S 22°13.8'	334°03.8'	N 6°24.8'
16	105°59.0'	S 20°00.3'	108°19.4'	S 22°07.8'	78°23.0'	S 22°13.8'	349°04.7'	N 6°25.5'
17	120°58.6'	S 20°00.6'	123°21.3'	S 22°07.8'	93°25.2'	S 22°13.8'	4°05.6'	N 6°26.2'
18	135°58.1'	S 20°01.0'	138°23.3'	S 22°07.9'	108°27.3'	S 22°13.7'	19°06.5'	N 6°26.8'
19	150°57.7'	S 20°01.3'	153°25.3'	S 22°07.9'	123°29.5'	S 22°13.7'	34°07.4'	N 6°27.5'
20	165°57.2'	S 20°01.7'	168°27.2'	S 22°07.9'	138°31.7'	S 22°13.7'	49°08.3'	N 6°28.2'
21	180°56.7'	S 20°02.0'	183°29.2'	S 22°08.0'	153°33.8'	S 22°13.6'	64°09.2'	N 6°28.9'
22	195°56.3'	S 20°02.3'	198°31.2'	S 22°08.0'	168°36.0'	S 22°13.6'	79°10.1'	N 6°29.6'
23	210°55.8'	S 20°02.7'	213°33.2'	S 22°08.1'	183°38.1'	S 22°13.6'	94°11.1'	N 6°30.3'

Fri Jan 25, 2019 UTC

UTC	Venus -4.2		Jupiter -1.7		Saturn +0.6		Mars +0.8	
	v = -0.5' d = 0.3'		v = 2.0' d = 0.0'		v = 2.2' d = 0.0'		v = 0.9' d = 0.7'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	225°55.3'	S 20°03.0'	228°35.1'	S 22°08.1'	198°40.3'	S 22°13.6'	109°12.0'	N 6°31.0'
1	240°54.9'	S 20°03.4'	243°37.1'	S 22°08.2'	213°42.5'	S 22°13.5'	124°12.9'	N 6°31.7'
2	255°54.4'	S 20°03.7'	258°39.1'	S 22°08.2'	228°44.6'	S 22°13.5'	139°13.8'	N 6°32.4'
3	270°53.9'	S 20°04.0'	273°41.0'	S 22°08.3'	243°46.8'	S 22°13.5'	154°14.7'	N 6°33.1'
4	285°53.4'	S 20°04.4'	288°43.0'	S 22°08.3'	258°48.9'	S 22°13.5'	169°15.6'	N 6°33.7'
5	300°53.0'	S 20°04.7'	303°45.0'	S 22°08.4'	273°51.1'	S 22°13.4'	184°16.5'	N 6°34.4'
6	315°52.5'	S 20°05.0'	318°47.0'	S 22°08.4'	288°53.3'	S 22°13.4'	199°17.4'	N 6°35.1'
7	330°52.0'	S 20°05.4'	333°48.9'	S 22°08.5'	303°55.4'	S 22°13.4'	214°18.3'	N 6°35.8'
8	345°51.6'	S 20°05.7'	348°50.9'	S 22°08.5'	318°57.6'	S 22°13.3'	229°19.2'	N 6°36.5'
9	0°51.1'	S 20°06.0'	3°52.9'	S 22°08.5'	333°59.7'	S 22°13.3'	244°20.1'	N 6°37.2'
10	15°50.6'	S 20°06.4'	18°54.9'	S 22°08.6'	349°01.9'	S 22°13.3'	259°21.0'	N 6°37.9'
11	30°50.1'	S 20°06.7'	33°56.8'	S 22°08.6'	4°04.1'	S 22°13.3'	274°21.9'	N 6°38.6'
12	45°49.7'	S 20°07.0'	48°58.8'	S 22°08.7'	19°06.2'	S 22°13.2'	289°22.8'	N 6°39.3'
13	60°49.2'	S 20°07.4'	64°00.8'	S 22°08.7'	34°08.4'	S 22°13.2'	304°23.7'	N 6°40.0'
14	75°48.7'	S 20°07.7'	79°02.7'	S 22°08.8'	49°10.5'	S 22°13.2'	319°24.7'	N 6°40.6'
15	90°48.2'	S 20°08.0'	94°04.7'	S 22°08.8'	64°12.7'	S 22°13.1'	334°25.6'	N 6°41.3'
16	105°47.8'	S 20°08.3'	109°06.7'	S 22°08.9'	79°14.9'	S 22°13.1'	349°26.5'	N 6°42.0'
17	120°47.3'	S 20°08.7'	124°08.7'	S 22°08.9'	94°17.0'	S 22°13.1'	4°27.4'	N 6°42.7'
18	135°46.8'	S 20°09.0'	139°10.6'	S 22°09.0'	109°19.2'	S 22°13.1'	19°28.3'	N 6°43.4'
19	150°46.3'	S 20°09.3'	154°12.6'	S 22°09.0'	124°21.4'	S 22°13.0'	34°29.2'	N 6°44.1'
20	165°45.8'	S 20°09.7'	169°14.6'	S 22°09.0'	139°23.5'	S 22°13.0'	49°30.1'	N 6°44.8'
21	180°45.4'	S 20°10.0'	184°16.6'	S 22°09.1'	154°25.7'	S 22°13.0'	64°31.0'	N 6°45.5'
22	195°44.9'	S 20°10.3'	199°18.5'	S 22°09.1'	169°27.8'	S 22°13.0'	79°31.9'	N 6°46.2'
23	210°44.4'	S 20°10.6'	214°20.5'	S 22°09.2'	184°30.0'	S 22°12.9'	94°32.8'	N 6°46.8'

Sat Jan 26, 2019 UTC

UTC	Venus -4.1		Jupiter -1.7		Saturn +0.6		Mars +0.8	
	v = -0.5' d = 0.3'		v = 2.0' d = 0.0'		v = 2.2' d = 0.0'		v = 0.9' d = 0.7'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	225°43.9'	S 20°10.9'	229°22.5'	S 22°09.2'	199°32.2'	S 22°12.9'	109°33.7'	N 6°47.5'
1	240°43.4'	S 20°11.3'	244°24.5'	S 22°09.3'	214°34.3'	S 22°12.9'	124°34.6'	N 6°48.2'
2	255°42.9'	S 20°11.6'	259°26.4'	S 22°09.3'	229°36.5'	S 22°12.8'	139°35.5'	N 6°48.9'
3	270°42.5'	S 20°11.9'	274°28.4'	S 22°09.4'	244°38.6'	S 22°12.8'	154°36.4'	N 6°49.6'
4	285°42.0'	S 20°12.2'	289°30.4'	S 22°09.4'	259°40.8'	S 22°12.8'	169°37.3'	N 6°50.3'
5	300°41.5'	S 20°12.5'	304°32.4'	S 22°09.5'	274°43.0'	S 22°12.8'	184°38.2'	N 6°51.0'
6	315°41.0'	S 20°12.9'	319°34.3'	S 22°09.5'	289°45.1'	S 22°12.7'	199°39.1'	N 6°51.7'
7	330°40.5'	S 20°13.2'	334°36.3'	S 22°09.5'	304°47.3'	S 22°12.7'	214°40.0'	N 6°52.3'
8	345°40.0'	S 20°13.5'	349°38.3'	S 22°09.6'	319°49.4'	S 22°12.7'	229°40.9'	N 6°53.0'
9	0°39.5'	S 20°13.8'	4°40.3'	S 22°09.6'	334°51.6'	S 22°12.7'	244°41.9'	N 6°53.7'
10	15°39.1'	S 20°14.1'	19°42.3'	S 22°09.7'	349°53.8'	S 22°12.6'	259°42.8'	N 6°54.4'
11	30°38.6'	S 20°14.4'	34°44.2'	S 22°09.7'	4°55.9'	S 22°12.6'	274°43.7'	N 6°55.1'
12	45°38.1'	S 20°14.7'	49°46.2'	S 22°09.8'	19°58.1'	S 22°12.6'	289°44.6'	N 6°55.8'
13	60°37.6'	S 20°15.1'	64°48.2'	S 22°09.8'	35°00.3'	S 22°12.5'	304°45.5'	N 6°56.5'
14	75°37.1'	S 20°15.4'	79°50.2'	S 22°09.9'	50°02.4'	S 22°12.5'	319°46.4'	N 6°57.1'
15	90°36.6'	S 20°15.7'	94°52.1'	S 22°09.9'	65°04.6'	S 22°12.5'	334°47.3'	N 6°57.8'
16	105°36.1'	S 20°16.0'	109°54.1'	S 22°09.9'	80°06.7'	S 22°12.5'	349°48.2'	N 6°58.5'
17	120°35.6'	S 20°16.3'	124°56.1'	S 22°10.0'	95°08.9'	S 22°12.4'	4°49.1'	N 6°59.2'
18	135°35.1'	S 20°16.6'	139°58.1'	S 22°10.0'	110°11.1'	S 22°12.4'	19°50.0'	N 6°59.9'
19	150°34.6'	S 20°16.9'	155°00.0'	S 22°10.1'	125°13.2'	S 22°12.4'	34°50.9'	N 7°00.6'
20	165°34.1'	S 20°17.2'	170°02.0'	S 22°10.1'	140°15.4'	S 22°12.3'	49°51.8'	N 7°01.3'
21	180°33.7'	S 20°17.5'	185°04.0'	S 22°10.2'	155°17.5'	S 22°12.3'	64°52.7'	N 7°02.0'
22	195°33.2'	S 20°17.8'	200°06.0'	S 22°10.2'	170°19.7'	S 22°12.3'	79°53.6'	N 7°02.6'
23	210°32.7'	S 20°18.1'	215°08.0'	S 22°10.3'	185°21.9'	S 22°12.3'	94°54.5'	N 7°03.3'

Sun Jan 27, 2019 UTC

UTC	Venus -4.1 v = -0.5' d = 0.3'		Jupiter -1.7 v = 2.0' d = 0.0'		Saturn +0.6 v = 2.2' d = 0.0'		Mars +0.8 v = 0.9' d = 0.7'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	225°32.2'	S 20°18.4'	230°09.9'	S 22°10.3'	200°24.0'	S 22°12.2'	109°55.4'	N 7°04.0'
1	240°31.7'	S 20°18.7'	245°11.9'	S 22°10.3'	215°26.2'	S 22°12.2'	124°56.3'	N 7°04.7'
2	255°31.2'	S 20°19.0'	260°13.9'	S 22°10.4'	230°28.4'	S 22°12.2'	139°57.2'	N 7°05.4'
3	270°30.7'	S 20°19.3'	275°15.9'	S 22°10.4'	245°30.5'	S 22°12.2'	154°58.1'	N 7°06.1'
4	285°30.2'	S 20°19.6'	290°17.9'	S 22°10.5'	260°32.7'	S 22°12.1'	169°59.0'	N 7°06.7'
5	300°29.7'	S 20°19.9'	305°19.8'	S 22°10.5'	275°34.8'	S 22°12.1'	184°59.9'	N 7°07.4'
6	315°29.2'	S 20°20.2'	320°21.8'	S 22°10.6'	290°37.0'	S 22°12.1'	200°00.8'	N 7°08.1'
7	330°28.7'	S 20°20.5'	335°23.8'	S 22°10.6'	305°39.2'	S 22°12.0'	215°01.7'	N 7°08.8'
8	345°28.2'	S 20°20.8'	350°25.8'	S 22°10.7'	320°41.3'	S 22°12.0'	230°02.6'	N 7°09.5'
9	0°27.7'	S 20°21.1'	5°27.8'	S 22°10.7'	335°43.5'	S 22°12.0'	245°03.5'	N 7°10.2'
10	15°27.2'	S 20°21.4'	20°29.7'	S 22°10.7'	350°45.7'	S 22°12.0'	260°04.4'	N 7°10.9'
11	30°26.7'	S 20°21.7'	35°31.7'	S 22°10.8'	5°47.8'	S 22°11.9'	275°05.3'	N 7°11.5'
12	45°26.2'	S 20°22.0'	50°33.7'	S 22°10.8'	20°50.0'	S 22°11.9'	290°06.2'	N 7°12.2'
13	60°25.7'	S 20°22.3'	65°35.7'	S 22°10.9'	35°52.1'	S 22°11.9'	305°07.1'	N 7°12.9'
14	75°25.2'	S 20°22.6'	80°37.7'	S 22°10.9'	50°54.3'	S 22°11.8'	320°08.1'	N 7°13.6'
15	90°24.7'	S 20°22.9'	95°39.6'	S 22°11.0'	65°56.5'	S 22°11.8'	335°09.0'	N 7°14.3'
16	105°24.1'	S 20°23.2'	110°41.6'	S 22°11.0'	80°58.6'	S 22°11.8'	350°09.9'	N 7°15.0'
17	120°23.6'	S 20°23.5'	125°43.6'	S 22°11.0'	96°00.8'	S 22°11.8'	5°10.8'	N 7°15.6'
18	135°23.1'	S 20°23.8'	140°45.6'	S 22°11.1'	111°03.0'	S 22°11.7'	20°11.7'	N 7°16.3'
19	150°22.6'	S 20°24.0'	155°47.6'	S 22°11.1'	126°05.1'	S 22°11.7'	35°12.6'	N 7°17.0'
20	165°22.1'	S 20°24.3'	170°49.6'	S 22°11.2'	141°07.3'	S 22°11.7'	50°13.5'	N 7°17.7'
21	180°21.6'	S 20°24.6'	185°51.5'	S 22°11.2'	156°09.5'	S 22°11.7'	65°14.4'	N 7°18.4'
22	195°21.1'	S 20°24.9'	200°53.5'	S 22°11.3'	171°11.6'	S 22°11.6'	80°15.3'	N 7°19.1'
23	210°20.6'	S 20°25.2'	215°55.5'	S 22°11.3'	186°13.8'	S 22°11.6'	95°16.2'	N 7°19.7'

Mon Jan 28, 2019 UTC

UTC	Venus -4.1 v = -0.5' d = 0.3'		Jupiter -1.7 v = 2.0' d = 0.0'		Saturn +0.6 v = 2.2' d = 0.0'		Mars +0.8 v = 0.9' d = 0.7'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	225°20.1'	S 20°25.5'	230°57.5'	S 22°11.4'	201°15.9'	S 22°11.6'	110°17.1'	N 7°20.4'
1	240°19.6'	S 20°25.8'	245°59.5'	S 22°11.4'	216°18.1'	S 22°11.5'	125°18.0'	N 7°21.1'
2	255°19.1'	S 20°26.0'	261°01.4'	S 22°11.4'	231°20.3'	S 22°11.5'	140°18.9'	N 7°21.8'
3	270°18.6'	S 20°26.3'	276°03.4'	S 22°11.5'	246°22.4'	S 22°11.5'	155°19.8'	N 7°22.5'
4	285°18.0'	S 20°26.6'	291°05.4'	S 22°11.5'	261°24.6'	S 22°11.5'	170°20.7'	N 7°23.2'
5	300°17.5'	S 20°26.9'	306°07.4'	S 22°11.6'	276°26.8'	S 22°11.4'	185°21.6'	N 7°23.8'
6	315°17.0'	S 20°27.2'	321°09.4'	S 22°11.6'	291°28.9'	S 22°11.4'	200°22.5'	N 7°24.5'
7	330°16.5'	S 20°27.4'	336°11.4'	S 22°11.7'	306°31.1'	S 22°11.4'	215°23.4'	N 7°25.2'
8	345°16.0'	S 20°27.7'	351°13.3'	S 22°11.7'	321°33.3'	S 22°11.3'	230°24.3'	N 7°25.9'
9	0°15.5'	S 20°28.0'	6°15.3'	S 22°11.7'	336°35.4'	S 22°11.3'	245°25.2'	N 7°26.6'
10	15°15.0'	S 20°28.3'	21°17.3'	S 22°11.8'	351°37.6'	S 22°11.3'	260°26.1'	N 7°27.3'
11	30°14.4'	S 20°28.5'	36°19.3'	S 22°11.8'	6°39.7'	S 22°11.3'	275°27.0'	N 7°27.9'
12	45°13.9'	S 20°28.8'	51°21.3'	S 22°11.9'	21°41.9'	S 22°11.2'	290°27.9'	N 7°28.6'
13	60°13.4'	S 20°29.1'	66°23.3'	S 22°11.9'	36°44.1'	S 22°11.2'	305°28.8'	N 7°29.3'
14	75°12.9'	S 20°29.4'	81°25.3'	S 22°12.0'	51°46.2'	S 22°11.2'	320°29.7'	N 7°30.0'
15	90°12.4'	S 20°29.6'	96°27.2'	S 22°12.0'	66°48.4'	S 22°11.2'	335°30.6'	N 7°30.7'
16	105°11.9'	S 20°29.9'	111°29.2'	S 22°12.0'	81°50.6'	S 22°11.1'	350°31.5'	N 7°31.3'
17	120°11.3'	S 20°30.2'	126°31.2'	S 22°12.1'	96°52.7'	S 22°11.1'	5°32.4'	N 7°32.0'
18	135°10.8'	S 20°30.5'	141°33.2'	S 22°12.1'	111°54.9'	S 22°11.1'	20°33.3'	N 7°32.7'
19	150°10.3'	S 20°30.7'	156°35.2'	S 22°12.2'	126°57.1'	S 22°11.0'	35°34.2'	N 7°33.4'
20	165°09.8'	S 20°31.0'	171°37.2'	S 22°12.2'	141°59.2'	S 22°11.0'	50°35.1'	N 7°34.1'
21	180°09.3'	S 20°31.3'	186°39.2'	S 22°12.2'	157°01.4'	S 22°11.0'	65°36.0'	N 7°34.7'
22	195°08.7'	S 20°31.5'	201°41.1'	S 22°12.3'	172°03.6'	S 22°11.0'	80°36.9'	N 7°35.4'
23	210°08.2'	S 20°31.8'	216°43.1'	S 22°12.3'	187°05.7'	S 22°10.9'	95°37.8'	N 7°36.1'

Tue Jan 29, 2019 UTC

UTC	Venus -4.1		Jupiter -1.7		Saturn +0.6		Mars +0.9	
	v = -0.5' d = 0.3'		v = 2.0' d = 0.0'		v = 2.2' d = 0.0'		v = 0.9' d = 0.7'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	225°07.7'	S 20°32.1'	231°45.1'	S 22°12.4'	202°07.9'	S 22°10.9'	110°38.7'	N 7°36.8'
1	240°07.2'	S 20°32.3'	246°47.1'	S 22°12.4'	217°10.1'	S 22°10.9'	125°39.6'	N 7°37.5'
2	255°06.7'	S 20°32.6'	261°49.1'	S 22°12.5'	232°12.2'	S 22°10.8'	140°40.5'	N 7°38.1'
3	270°06.1'	S 20°32.8'	276°51.1'	S 22°12.5'	247°14.4'	S 22°10.8'	155°41.4'	N 7°38.8'
4	285°05.6'	S 20°33.1'	291°53.1'	S 22°12.5'	262°16.5'	S 22°10.8'	170°42.3'	N 7°39.5'
5	300°05.1'	S 20°33.4'	306°55.1'	S 22°12.6'	277°18.7'	S 22°10.8'	185°43.2'	N 7°40.2'
6	315°04.6'	S 20°33.6'	321°57.0'	S 22°12.6'	292°20.9'	S 22°10.7'	200°44.1'	N 7°40.9'
7	330°04.0'	S 20°33.9'	336°59.0'	S 22°12.7'	307°23.0'	S 22°10.7'	215°45.0'	N 7°41.5'
8	345°03.5'	S 20°34.1'	352°01.0'	S 22°12.7'	322°25.2'	S 22°10.7'	230°45.9'	N 7°42.2'
9	0°03.0'	S 20°34.4'	7°03.0'	S 22°12.8'	337°27.4'	S 22°10.6'	245°46.8'	N 7°42.9'
10	15°02.4'	S 20°34.7'	22°05.0'	S 22°12.8'	352°29.5'	S 22°10.6'	260°47.7'	N 7°43.6'
11	30°01.9'	S 20°34.9'	37°07.0'	S 22°12.8'	7°31.7'	S 22°10.6'	275°48.6'	N 7°44.3'
12	45°01.4'	S 20°35.2'	52°09.0'	S 22°12.9'	22°33.9'	S 22°10.6'	290°49.5'	N 7°44.9'
13	60°00.9'	S 20°35.4'	67°11.0'	S 22°12.9'	37°36.0'	S 22°10.5'	305°50.4'	N 7°45.6'
14	75°00.3'	S 20°35.7'	82°12.9'	S 22°13.0'	52°38.2'	S 22°10.5'	320°51.2'	N 7°46.3'
15	89°59.8'	S 20°35.9'	97°14.9'	S 22°13.0'	67°40.4'	S 22°10.5'	335°52.1'	N 7°47.0'
16	104°59.3'	S 20°36.2'	112°16.9'	S 22°13.0'	82°42.5'	S 22°10.5'	350°53.0'	N 7°47.7'
17	119°58.7'	S 20°36.4'	127°18.9'	S 22°13.1'	97°44.7'	S 22°10.4'	5°53.9'	N 7°48.3'
18	134°58.2'	S 20°36.7'	142°20.9'	S 22°13.1'	112°46.9'	S 22°10.4'	20°54.8'	N 7°49.0'
19	149°57.7'	S 20°36.9'	157°22.9'	S 22°13.2'	127°49.0'	S 22°10.4'	35°55.7'	N 7°49.7'
20	164°57.1'	S 20°37.2'	172°24.9'	S 22°13.2'	142°51.2'	S 22°10.3'	50°56.6'	N 7°50.4'
21	179°56.6'	S 20°37.4'	187°26.9'	S 22°13.3'	157°53.4'	S 22°10.3'	65°57.5'	N 7°51.1'
22	194°56.1'	S 20°37.7'	202°28.9'	S 22°13.3'	172°55.5'	S 22°10.3'	80°58.4'	N 7°51.7'
23	209°55.5'	S 20°37.9'	217°30.9'	S 22°13.3'	187°57.7'	S 22°10.3'	95°59.3'	N 7°52.4'

Wed Jan 30, 2019 UTC

UTC	Venus -4.1		Jupiter -1.7		Saturn +0.6		Mars +0.9	
	v = -0.5' d = 0.2'		v = 2.0' d = 0.0'		v = 2.2' d = 0.0'		v = 0.9' d = 0.7'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	224°55.0'	S 20°38.2'	232°32.8'	S 22°13.4'	202°59.9'	S 22°10.2'	111°00.2'	N 7°53.1'
1	239°54.5'	S 20°38.4'	247°34.8'	S 22°13.4'	218°02.0'	S 22°10.2'	126°01.1'	N 7°53.8'
2	254°53.9'	S 20°38.7'	262°36.8'	S 22°13.5'	233°04.2'	S 22°10.2'	141°02.0'	N 7°54.4'
3	269°53.4'	S 20°38.9'	277°38.8'	S 22°13.5'	248°06.4'	S 22°10.1'	156°02.9'	N 7°55.1'
4	284°52.9'	S 20°39.1'	292°40.8'	S 22°13.5'	263°08.5'	S 22°10.1'	171°03.8'	N 7°55.8'
5	299°52.3'	S 20°39.4'	307°42.8'	S 22°13.6'	278°10.7'	S 22°10.1'	186°04.7'	N 7°56.5'
6	314°51.8'	S 20°39.6'	322°44.8'	S 22°13.6'	293°12.9'	S 22°10.1'	201°05.6'	N 7°57.1'
7	329°51.2'	S 20°39.9'	337°46.8'	S 22°13.7'	308°15.0'	S 22°10.0'	216°06.5'	N 7°57.8'
8	344°50.7'	S 20°40.1'	352°48.8'	S 22°13.7'	323°17.2'	S 22°10.0'	231°07.4'	N 7°58.5'
9	359°50.2'	S 20°40.3'	7°50.8'	S 22°13.7'	338°19.4'	S 22°10.0'	246°08.3'	N 7°59.2'
10	14°49.6'	S 20°40.6'	22°52.8'	S 22°13.8'	353°21.5'	S 22°09.9'	261°09.2'	N 7°59.9'
11	29°49.1'	S 20°40.8'	37°54.8'	S 22°13.8'	8°23.7'	S 22°09.9'	276°10.1'	N 8°00.5'
12	44°48.6'	S 20°41.0'	52°56.7'	S 22°13.9'	23°25.9'	S 22°09.9'	291°11.0'	N 8°01.2'
13	59°48.0'	S 20°41.3'	67°58.7'	S 22°13.9'	38°28.0'	S 22°09.9'	306°11.9'	N 8°01.9'
14	74°47.5'	S 20°41.5'	83°00.7'	S 22°14.0'	53°30.2'	S 22°09.8'	321°12.8'	N 8°02.6'
15	89°46.9'	S 20°41.7'	98°02.7'	S 22°14.0'	68°32.4'	S 22°09.8'	336°13.7'	N 8°03.2'
16	104°46.4'	S 20°42.0'	113°04.7'	S 22°14.0'	83°34.5'	S 22°09.8'	351°14.6'	N 8°03.9'
17	119°45.8'	S 20°42.2'	128°06.7'	S 22°14.1'	98°36.7'	S 22°09.7'	6°15.5'	N 8°04.6'
18	134°45.3'	S 20°42.4'	143°08.7'	S 22°14.1'	113°38.9'	S 22°09.7'	21°16.4'	N 8°05.3'
19	149°44.8'	S 20°42.7'	158°10.7'	S 22°14.2'	128°41.0'	S 22°09.7'	36°17.2'	N 8°05.9'
20	164°44.2'	S 20°42.9'	173°12.7'	S 22°14.2'	143°43.2'	S 22°09.7'	51°18.1'	N 8°06.6'
21	179°43.7'	S 20°43.1'	188°14.7'	S 22°14.2'	158°45.4'	S 22°09.6'	66°19.0'	N 8°07.3'
22	194°43.1'	S 20°43.3'	203°16.7'	S 22°14.3'	173°47.5'	S 22°09.6'	81°19.9'	N 8°08.0'
23	209°42.6'	S 20°43.6'	218°18.7'	S 22°14.3'	188°49.7'	S 22°09.6'	96°20.8'	N 8°08.6'

Thu Jan 31, 2019 UTC

UTC	Venus -4.1 v = -0.6' d = 0.2'		Jupiter -1.7 v = 2.0' d = 0.0'		Saturn +0.6 v = 2.2' d = 0.0'		Mars +0.9 v = 0.9' d = 0.7'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	224°42.0'	S 20°43.8'	233°20.7'	S 22°14.4'	203°51.9'	S 22°09.6'	111°21.7'	N 8°09.3'
1	239°41.5'	S 20°44.0'	248°22.7'	S 22°14.4'	218°54.0'	S 22°09.5'	126°22.6'	N 8°10.0'
2	254°40.9'	S 20°44.2'	263°24.7'	S 22°14.4'	233°56.2'	S 22°09.5'	141°23.5'	N 8°10.7'
3	269°40.4'	S 20°44.5'	278°26.7'	S 22°14.5'	248°58.4'	S 22°09.5'	156°24.4'	N 8°11.3'
4	284°39.8'	S 20°44.7'	293°28.7'	S 22°14.5'	264°00.5'	S 22°09.4'	171°25.3'	N 8°12.0'
5	299°39.3'	S 20°44.9'	308°30.6'	S 22°14.6'	279°02.7'	S 22°09.4'	186°26.2'	N 8°12.7'
6	314°38.7'	S 20°45.1'	323°32.6'	S 22°14.6'	294°04.9'	S 22°09.4'	201°27.1'	N 8°13.4'
7	329°38.2'	S 20°45.3'	338°34.6'	S 22°14.6'	309°07.0'	S 22°09.4'	216°28.0'	N 8°14.0'
8	344°37.6'	S 20°45.6'	353°36.6'	S 22°14.7'	324°09.2'	S 22°09.3'	231°28.9'	N 8°14.7'
9	359°37.1'	S 20°45.8'	8°38.6'	S 22°14.7'	339°11.4'	S 22°09.3'	246°29.8'	N 8°15.4'
10	14°36.5'	S 20°46.0'	23°40.6'	S 22°14.8'	354°13.6'	S 22°09.3'	261°30.7'	N 8°16.1'
11	29°36.0'	S 20°46.2'	38°42.6'	S 22°14.8'	9°15.7'	S 22°09.2'	276°31.6'	N 8°16.7'
12	44°35.4'	S 20°46.4'	53°44.6'	S 22°14.8'	24°17.9'	S 22°09.2'	291°32.4'	N 8°17.4'
13	59°34.9'	S 20°46.6'	68°46.6'	S 22°14.9'	39°20.1'	S 22°09.2'	306°33.3'	N 8°18.1'
14	74°34.3'	S 20°46.9'	83°48.6'	S 22°14.9'	54°22.2'	S 22°09.2'	321°34.2'	N 8°18.8'
15	89°33.8'	S 20°47.1'	98°50.6'	S 22°15.0'	69°24.4'	S 22°09.1'	336°35.1'	N 8°19.4'
16	104°33.2'	S 20°47.3'	113°52.6'	S 22°15.0'	84°26.6'	S 22°09.1'	351°36.0'	N 8°20.1'
17	119°32.7'	S 20°47.5'	128°54.6'	S 22°15.0'	99°28.7'	S 22°09.1'	6°36.9'	N 8°20.8'
18	134°32.1'	S 20°47.7'	143°56.6'	S 22°15.1'	114°30.9'	S 22°09.0'	21°37.8'	N 8°21.4'
19	149°31.6'	S 20°47.9'	158°58.6'	S 22°15.1'	129°33.1'	S 22°09.0'	36°38.7'	N 8°22.1'
20	164°31.0'	S 20°48.1'	174°00.6'	S 22°15.2'	144°35.2'	S 22°09.0'	51°39.6'	N 8°22.8'
21	179°30.4'	S 20°48.3'	189°02.6'	S 22°15.2'	159°37.4'	S 22°09.0'	66°40.5'	N 8°23.5'
22	194°29.9'	S 20°48.5'	204°04.6'	S 22°15.2'	174°39.6'	S 22°08.9'	81°41.4'	N 8°24.1'
23	209°29.3'	S 20°48.7'	219°06.6'	S 22°15.3'	189°41.7'	S 22°08.9'	96°42.3'	N 8°24.8'