

Sun Jan 1, 2017 UTC

UTC	Venus -4.2		Jupiter -1.8		Saturn +0.5		Mars +0.9	
	v = -0.1' d = 1.1'		v = 2.2' d = 0.1'		v = 2.2' d = 0.0'		v = 0.7' d = 0.8'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	130°38.5'	S 13°41.9'	260°48.8'	S 7°03.6'	200°08.3'	S 21°52.4'	119°24.8'	S 8°48.6'
1	145°38.4'	S 13°40.8'	275°51.0'	S 7°03.7'	215°10.5'	S 21°52.4'	134°25.5'	S 8°47.8'
2	160°38.3'	S 13°39.7'	290°53.2'	S 7°03.8'	230°12.6'	S 21°52.5'	149°26.2'	S 8°47.1'
3	175°38.2'	S 13°38.6'	305°55.5'	S 7°03.9'	245°14.8'	S 21°52.5'	164°27.0'	S 8°46.3'
4	190°38.1'	S 13°37.5'	320°57.7'	S 7°04.0'	260°17.0'	S 21°52.5'	179°27.7'	S 8°45.6'
5	205°38.0'	S 13°36.4'	335°59.9'	S 7°04.1'	275°19.1'	S 21°52.5'	194°28.4'	S 8°44.8'
6	220°37.9'	S 13°35.3'	351°02.1'	S 7°04.1'	290°21.3'	S 21°52.5'	209°29.1'	S 8°44.1'
7	235°37.8'	S 13°34.2'	6°04.3'	S 7°04.2'	305°23.4'	S 21°52.6'	224°29.8'	S 8°43.3'
8	250°37.7'	S 13°33.1'	21°06.5'	S 7°04.3'	320°25.6'	S 21°52.6'	239°30.5'	S 8°42.6'
9	265°37.6'	S 13°32.0'	36°08.7'	S 7°04.4'	335°27.8'	S 21°52.6'	254°31.2'	S 8°41.8'
10	280°37.6'	S 13°30.9'	51°11.0'	S 7°04.5'	350°29.9'	S 21°52.6'	269°31.9'	S 8°41.1'
11	295°37.5'	S 13°29.8'	66°13.2'	S 7°04.6'	5°32.1'	S 21°52.6'	284°32.6'	S 8°40.3'
12	310°37.4'	S 13°28.7'	81°15.4'	S 7°04.7'	20°34.2'	S 21°52.7'	299°33.4'	S 8°39.6'
13	325°37.3'	S 13°27.6'	96°17.6'	S 7°04.8'	35°36.4'	S 21°52.7'	314°34.1'	S 8°38.8'
14	340°37.2'	S 13°26.5'	111°19.8'	S 7°04.9'	50°38.5'	S 21°52.7'	329°34.8'	S 8°38.1'
15	355°37.1'	S 13°25.4'	126°22.0'	S 7°04.9'	65°40.7'	S 21°52.7'	344°35.5'	S 8°37.3'
16	10°37.0'	S 13°24.3'	141°24.3'	S 7°05.0'	80°42.9'	S 21°52.7'	359°36.2'	S 8°36.6'
17	25°37.0'	S 13°23.2'	156°26.5'	S 7°05.1'	95°45.0'	S 21°52.8'	14°36.9'	S 8°35.8'
18	40°36.9'	S 13°22.1'	171°28.7'	S 7°05.2'	110°47.2'	S 21°52.8'	29°37.6'	S 8°35.0'
19	55°36.8'	S 13°21.0'	186°30.9'	S 7°05.3'	125°49.3'	S 21°52.8'	44°38.3'	S 8°34.3'
20	70°36.7'	S 13°19.9'	201°33.1'	S 7°05.4'	140°51.5'	S 21°52.8'	59°39.1'	S 8°33.5'
21	85°36.7'	S 13°18.8'	216°35.4'	S 7°05.5'	155°53.7'	S 21°52.8'	74°39.8'	S 8°32.8'
22	100°36.6'	S 13°17.7'	231°37.6'	S 7°05.6'	170°55.8'	S 21°52.8'	89°40.5'	S 8°32.0'
23	115°36.5'	S 13°16.6'	246°39.8'	S 7°05.6'	185°58.0'	S 21°52.9'	104°41.2'	S 8°31.3'

Mon Jan 2, 2017 UTC

UTC	Venus -4.2		Jupiter -1.8		Saturn +0.5		Mars +0.9	
	v = -0.1' d = 1.1'		v = 2.2' d = 0.1'		v = 2.2' d = 0.0'		v = 0.7' d = 0.8'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	130°36.4'	S 13°15.5'	261°42.0'	S 7°05.7'	201°00.1'	S 21°52.9'	119°41.9'	S 8°30.5'
1	145°36.4'	S 13°14.4'	276°44.2'	S 7°05.8'	216°02.3'	S 21°52.9'	134°42.6'	S 8°29.8'
2	160°36.3'	S 13°13.3'	291°46.5'	S 7°05.9'	231°04.5'	S 21°52.9'	149°43.3'	S 8°29.0'
3	175°36.2'	S 13°12.2'	306°48.7'	S 7°06.0'	246°06.6'	S 21°52.9'	164°44.1'	S 8°28.3'
4	190°36.1'	S 13°11.1'	321°50.9'	S 7°06.1'	261°08.8'	S 21°53.0'	179°44.8'	S 8°27.5'
5	205°36.1'	S 13°10.0'	336°53.1'	S 7°06.2'	276°10.9'	S 21°53.0'	194°45.5'	S 8°26.7'
6	220°36.0'	S 13°08.9'	351°55.3'	S 7°06.3'	291°13.1'	S 21°53.0'	209°46.2'	S 8°26.0'
7	235°35.9'	S 13°07.8'	6°57.6'	S 7°06.3'	306°15.3'	S 21°53.0'	224°46.9'	S 8°25.2'
8	250°35.9'	S 13°06.7'	21°59.8'	S 7°06.4'	321°17.4'	S 21°53.0'	239°47.6'	S 8°24.5'
9	265°35.8'	S 13°05.6'	37°02.0'	S 7°06.5'	336°19.6'	S 21°53.1'	254°48.3'	S 8°23.7'
10	280°35.7'	S 13°04.5'	52°04.2'	S 7°06.6'	351°21.7'	S 21°53.1'	269°49.1'	S 8°23.0'
11	295°35.7'	S 13°03.4'	67°06.4'	S 7°06.7'	6°23.9'	S 21°53.1'	284°49.8'	S 8°22.2'
12	310°35.6'	S 13°02.3'	82°08.7'	S 7°06.8'	21°26.1'	S 21°53.1'	299°50.5'	S 8°21.5'
13	325°35.5'	S 13°01.2'	97°10.9'	S 7°06.9'	36°28.2'	S 21°53.1'	314°51.2'	S 8°20.7'
14	340°35.5'	S 13°00.1'	112°13.1'	S 7°07.0'	51°30.4'	S 21°53.1'	329°51.9'	S 8°20.0'
15	355°35.4'	S 12°59.0'	127°15.3'	S 7°07.0'	66°32.5'	S 21°53.2'	344°52.6'	S 8°19.2'
16	10°35.4'	S 12°57.9'	142°17.6'	S 7°07.1'	81°34.7'	S 21°53.2'	359°53.3'	S 8°18.4'
17	25°35.3'	S 12°56.8'	157°19.8'	S 7°07.2'	96°36.9'	S 21°53.2'	14°54.1'	S 8°17.7'
18	40°35.2'	S 12°55.6'	172°22.0'	S 7°07.3'	111°39.0'	S 21°53.2'	29°54.8'	S 8°16.9'
19	55°35.2'	S 12°54.5'	187°24.2'	S 7°07.4'	126°41.2'	S 21°53.2'	44°55.5'	S 8°16.2'
20	70°35.1'	S 12°53.4'	202°26.5'	S 7°07.5'	141°43.3'	S 21°53.3'	59°56.2'	S 8°15.4'
21	85°35.1'	S 12°52.3'	217°28.7'	S 7°07.6'	156°45.5'	S 21°53.3'	74°56.9'	S 8°14.7'
22	100°35.0'	S 12°51.2'	232°30.9'	S 7°07.6'	171°47.7'	S 21°53.3'	89°57.6'	S 8°13.9'
23	115°35.0'	S 12°50.1'	247°33.1'	S 7°07.7'	186°49.8'	S 21°53.3'	104°58.4'	S 8°13.1'

Tue Jan 3, 2017 UTC

UTC	Venus -4.2		Jupiter -1.8		Saturn +0.5		Mars +0.9	
	v = -0.0' d = 1.1'		v = 2.2' d = 0.1'		v = 2.2' d = 0.0'		v = 0.7' d = 0.8'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	130°34.9'	S 12°49.0'	262°35.4'	S 7°07.8'	201°52.0'	S 21°53.3'	119°59.1'	S 8°12.4'
1	145°34.9'	S 12°47.9'	277°37.6'	S 7°07.9'	216°54.1'	S 21°53.4'	134°59.8'	S 8°11.6'
2	160°34.8'	S 12°46.8'	292°39.8'	S 7°08.0'	231°56.3'	S 21°53.4'	150°00.5'	S 8°10.9'
3	175°34.8'	S 12°45.6'	307°42.0'	S 7°08.1'	246°58.5'	S 21°53.4'	165°01.2'	S 8°10.1'
4	190°34.7'	S 12°44.5'	322°44.3'	S 7°08.2'	262°00.6'	S 21°53.4'	180°01.9'	S 8°09.4'
5	205°34.7'	S 12°43.4'	337°46.5'	S 7°08.2'	277°02.8'	S 21°53.4'	195°02.7'	S 8°08.6'
6	220°34.6'	S 12°42.3'	352°48.7'	S 7°08.3'	292°04.9'	S 21°53.4'	210°03.4'	S 8°07.8'
7	235°34.6'	S 12°41.2'	7°50.9'	S 7°08.4'	307°07.1'	S 21°53.5'	225°04.1'	S 8°07.1'
8	250°34.5'	S 12°40.1'	22°53.2'	S 7°08.5'	322°09.3'	S 21°53.5'	240°04.8'	S 8°06.3'
9	265°34.5'	S 12°39.0'	37°55.4'	S 7°08.6'	337°11.4'	S 21°53.5'	255°05.5'	S 8°05.6'
10	280°34.4'	S 12°37.8'	52°57.6'	S 7°08.7'	352°13.6'	S 21°53.5'	270°06.2'	S 8°04.8'
11	295°34.4'	S 12°36.7'	67°59.9'	S 7°08.7'	7°15.7'	S 21°53.5'	285°07.0'	S 8°04.1'
12	310°34.3'	S 12°35.6'	83°02.1'	S 7°08.8'	22°17.9'	S 21°53.6'	300°07.7'	S 8°03.3'
13	325°34.3'	S 12°34.5'	98°04.3'	S 7°08.9'	37°20.1'	S 21°53.6'	315°08.4'	S 8°02.5'
14	340°34.3'	S 12°33.4'	113°06.5'	S 7°09.0'	52°22.2'	S 21°53.6'	330°09.1'	S 8°01.8'
15	355°34.2'	S 12°32.3'	128°08.8'	S 7°09.1'	67°24.4'	S 21°53.6'	345°09.8'	S 8°01.0'
16	10°34.2'	S 12°31.1'	143°11.0'	S 7°09.2'	82°26.5'	S 21°53.6'	0°10.6'	S 8°00.3'
17	25°34.2'	S 12°30.0'	158°13.2'	S 7°09.2'	97°28.7'	S 21°53.6'	15°11.3'	S 7°59.5'
18	40°34.1'	S 12°28.9'	173°15.5'	S 7°09.3'	112°30.9'	S 21°53.7'	30°12.0'	S 7°58.8'
19	55°34.1'	S 12°27.8'	188°17.7'	S 7°09.4'	127°33.0'	S 21°53.7'	45°12.7'	S 7°58.0'
20	70°34.0'	S 12°26.7'	203°19.9'	S 7°09.5'	142°35.2'	S 21°53.7'	60°13.4'	S 7°57.2'
21	85°34.0'	S 12°25.5'	218°22.2'	S 7°09.6'	157°37.4'	S 21°53.7'	75°14.1'	S 7°56.5'
22	100°34.0'	S 12°24.4'	233°24.4'	S 7°09.7'	172°39.5'	S 21°53.7'	90°14.9'	S 7°55.7'
23	115°33.9'	S 12°23.3'	248°26.6'	S 7°09.7'	187°41.7'	S 21°53.8'	105°15.6'	S 7°55.0'

Wed Jan 4, 2017 UTC

UTC	Venus -4.2		Jupiter -1.8		Saturn +0.5		Mars +0.9	
	v = -0.0' d = 1.1'		v = 2.2' d = 0.1'		v = 2.2' d = 0.0'		v = 0.7' d = 0.8'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	130°33.9'	S 12°22.2'	263°28.8'	S 7°09.8'	202°43.8'	S 21°53.8'	120°16.3'	S 7°54.2'
1	145°33.9'	S 12°21.1'	278°31.1'	S 7°09.9'	217°46.0'	S 21°53.8'	135°17.0'	S 7°53.4'
2	160°33.9'	S 12°19.9'	293°33.3'	S 7°10.0'	232°48.2'	S 21°53.8'	150°17.7'	S 7°52.7'
3	175°33.8'	S 12°18.8'	308°35.5'	S 7°10.1'	247°50.3'	S 21°53.8'	165°18.5'	S 7°51.9'
4	190°33.8'	S 12°17.7'	323°37.8'	S 7°10.2'	262°52.5'	S 21°53.8'	180°19.2'	S 7°51.2'
5	205°33.8'	S 12°16.6'	338°40.0'	S 7°10.2'	277°54.6'	S 21°53.9'	195°19.9'	S 7°50.4'
6	220°33.8'	S 12°15.4'	353°42.2'	S 7°10.3'	292°56.8'	S 21°53.9'	210°20.6'	S 7°49.6'
7	235°33.7'	S 12°14.3'	8°44.5'	S 7°10.4'	307°59.0'	S 21°53.9'	225°21.3'	S 7°48.9'
8	250°33.7'	S 12°13.2'	23°46.7'	S 7°10.5'	323°01.1'	S 21°53.9'	240°22.1'	S 7°48.1'
9	265°33.7'	S 12°12.1'	38°48.9'	S 7°10.6'	338°03.3'	S 21°53.9'	255°22.8'	S 7°47.4'
10	280°33.7'	S 12°11.0'	53°51.2'	S 7°10.6'	353°05.5'	S 21°53.9'	270°23.5'	S 7°46.6'
11	295°33.6'	S 12°09.8'	68°53.4'	S 7°10.7'	8°07.6'	S 21°54.0'	285°24.2'	S 7°45.8'
12	310°33.6'	S 12°08.7'	83°55.6'	S 7°10.8'	23°09.8'	S 21°54.0'	300°24.9'	S 7°45.1'
13	325°33.6'	S 12°07.6'	98°57.9'	S 7°10.9'	38°11.9'	S 21°54.0'	315°25.7'	S 7°44.3'
14	340°33.6'	S 12°06.4'	114°00.1'	S 7°11.0'	53°14.1'	S 21°54.0'	330°26.4'	S 7°43.6'
15	355°33.6'	S 12°05.3'	129°02.4'	S 7°11.1'	68°16.3'	S 21°54.0'	345°27.1'	S 7°42.8'
16	10°33.6'	S 12°04.2'	144°04.6'	S 7°11.1'	83°18.4'	S 21°54.1'	0°27.8'	S 7°42.0'
17	25°33.5'	S 12°03.1'	159°06.8'	S 7°11.2'	98°20.6'	S 21°54.1'	15°28.5'	S 7°41.3'
18	40°33.5'	S 12°01.9'	174°09.1'	S 7°11.3'	113°22.8'	S 21°54.1'	30°29.3'	S 7°40.5'
19	55°33.5'	S 12°00.8'	189°11.3'	S 7°11.4'	128°24.9'	S 21°54.1'	45°30.0'	S 7°39.8'
20	70°33.5'	S 11°59.7'	204°13.5'	S 7°11.5'	143°27.1'	S 21°54.1'	60°30.7'	S 7°39.0'
21	85°33.5'	S 11°58.6'	219°15.8'	S 7°11.5'	158°29.2'	S 21°54.1'	75°31.4'	S 7°38.2'
22	100°33.5'	S 11°57.4'	234°18.0'	S 7°11.6'	173°31.4'	S 21°54.2'	90°32.2'	S 7°37.5'
23	115°33.5'	S 11°56.3'	249°20.2'	S 7°11.7'	188°33.6'	S 21°54.2'	105°32.9'	S 7°36.7'

Thu Jan 5, 2017 UTC

UTC	Venus -4.2		Jupiter -1.8		Saturn +0.5		Mars +0.9	
	v = 0.0' d = 1.1'		v = 2.2' d = 0.1'		v = 2.2' d = 0.0'		v = 0.7' d = 0.8'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	130°33.5'	S 11°55.2'	264°22.5'	S 7°11.8'	203°35.7'	S 21°54.2'	120°33.6'	S 7°36.0'
1	145°33.5'	S 11°54.0'	279°24.7'	S 7°11.9'	218°37.9'	S 21°54.2'	135°34.3'	S 7°35.2'
2	160°33.5'	S 11°52.9'	294°27.0'	S 7°11.9'	233°40.1'	S 21°54.2'	150°35.0'	S 7°34.4'
3	175°33.5'	S 11°51.8'	309°29.2'	S 7°12.0'	248°42.2'	S 21°54.2'	165°35.8'	S 7°33.7'
4	190°33.4'	S 11°50.6'	324°31.4'	S 7°12.1'	263°44.4'	S 21°54.3'	180°36.5'	S 7°32.9'
5	205°33.4'	S 11°49.5'	339°33.7'	S 7°12.2'	278°46.5'	S 21°54.3'	195°37.2'	S 7°32.2'
6	220°33.4'	S 11°48.4'	354°35.9'	S 7°12.3'	293°48.7'	S 21°54.3'	210°37.9'	S 7°31.4'
7	235°33.4'	S 11°47.2'	9°38.1'	S 7°12.3'	308°50.9'	S 21°54.3'	225°38.7'	S 7°30.6'
8	250°33.4'	S 11°46.1'	24°40.4'	S 7°12.4'	323°53.0'	S 21°54.3'	240°39.4'	S 7°29.9'
9	265°33.4'	S 11°45.0'	39°42.6'	S 7°12.5'	338°55.2'	S 21°54.4'	255°40.1'	S 7°29.1'
10	280°33.4'	S 11°43.8'	54°44.9'	S 7°12.6'	353°57.4'	S 21°54.4'	270°40.8'	S 7°28.3'
11	295°33.4'	S 11°42.7'	69°47.1'	S 7°12.7'	8°59.5'	S 21°54.4'	285°41.5'	S 7°27.6'
12	310°33.5'	S 11°41.6'	84°49.3'	S 7°12.7'	24°01.7'	S 21°54.4'	300°42.3'	S 7°26.8'
13	325°33.5'	S 11°40.4'	99°51.6'	S 7°12.8'	39°03.9'	S 21°54.4'	315°43.0'	S 7°26.1'
14	340°33.5'	S 11°39.3'	114°53.8'	S 7°12.9'	54°06.0'	S 21°54.4'	330°43.7'	S 7°25.3'
15	355°33.5'	S 11°38.2'	129°56.1'	S 7°13.0'	69°08.2'	S 21°54.5'	345°44.4'	S 7°24.5'
16	10°33.5'	S 11°37.0'	144°58.3'	S 7°13.0'	84°10.3'	S 21°54.5'	0°45.2'	S 7°23.8'
17	25°33.5'	S 11°35.9'	160°00.6'	S 7°13.1'	99°12.5'	S 21°54.5'	15°45.9'	S 7°23.0'
18	40°33.5'	S 11°34.8'	175°02.8'	S 7°13.2'	114°14.7'	S 21°54.5'	30°46.6'	S 7°22.2'
19	55°33.5'	S 11°33.6'	190°05.0'	S 7°13.3'	129°16.8'	S 21°54.5'	45°47.3'	S 7°21.5'
20	70°33.5'	S 11°32.5'	205°07.3'	S 7°13.4'	144°19.0'	S 21°54.5'	60°48.1'	S 7°20.7'
21	85°33.5'	S 11°31.4'	220°09.5'	S 7°13.4'	159°21.2'	S 21°54.6'	75°48.8'	S 7°20.0'
22	100°33.5'	S 11°30.2'	235°11.8'	S 7°13.5'	174°23.3'	S 21°54.6'	90°49.5'	S 7°19.2'
23	115°33.6'	S 11°29.1'	250°14.0'	S 7°13.6'	189°25.5'	S 21°54.6'	105°50.2'	S 7°18.4'

Fri Jan 6, 2017 UTC

UTC	Venus -4.2		Jupiter -1.8		Saturn +0.5		Mars +0.9	
	v = 0.0' d = 1.1'		v = 2.2' d = 0.1'		v = 2.2' d = 0.0'		v = 0.7' d = 0.8'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	130°33.6'	S 11°27.9'	265°16.3'	S 7°13.7'	204°27.7'	S 21°54.6'	120°51.0'	S 7°17.7'
1	145°33.6'	S 11°26.8'	280°18.5'	S 7°13.7'	219°29.8'	S 21°54.6'	135°51.7'	S 7°16.9'
2	160°33.6'	S 11°25.7'	295°20.7'	S 7°13.8'	234°32.0'	S 21°54.6'	150°52.4'	S 7°16.1'
3	175°33.6'	S 11°24.5'	310°23.0'	S 7°13.9'	249°34.2'	S 21°54.7'	165°53.1'	S 7°15.4'
4	190°33.6'	S 11°23.4'	325°25.2'	S 7°14.0'	264°36.3'	S 21°54.7'	180°53.9'	S 7°14.6'
5	205°33.7'	S 11°22.2'	340°27.5'	S 7°14.1'	279°38.5'	S 21°54.7'	195°54.6'	S 7°13.8'
6	220°33.7'	S 11°21.1'	355°29.7'	S 7°14.1'	294°40.6'	S 21°54.7'	210°55.3'	S 7°13.1'
7	235°33.7'	S 11°20.0'	10°32.0'	S 7°14.2'	309°42.8'	S 21°54.7'	225°56.0'	S 7°12.3'
8	250°33.7'	S 11°18.8'	25°34.2'	S 7°14.3'	324°45.0'	S 21°54.8'	240°56.8'	S 7°11.6'
9	265°33.7'	S 11°17.7'	40°36.5'	S 7°14.4'	339°47.1'	S 21°54.8'	255°57.5'	S 7°10.8'
10	280°33.8'	S 11°16.5'	55°38.7'	S 7°14.4'	354°49.3'	S 21°54.8'	270°58.2'	S 7°10.0'
11	295°33.8'	S 11°15.4'	70°41.0'	S 7°14.5'	9°51.5'	S 21°54.8'	285°58.9'	S 7°09.3'
12	310°33.8'	S 11°14.3'	85°43.2'	S 7°14.6'	24°53.6'	S 21°54.8'	300°59.7'	S 7°08.5'
13	325°33.8'	S 11°13.1'	100°45.4'	S 7°14.7'	39°55.8'	S 21°54.8'	316°00.4'	S 7°07.7'
14	340°33.9'	S 11°12.0'	115°47.7'	S 7°14.7'	54°58.0'	S 21°54.9'	331°01.1'	S 7°07.0'
15	355°33.9'	S 11°10.8'	130°49.9'	S 7°14.8'	70°00.1'	S 21°54.9'	346°01.8'	S 7°06.2'
16	10°33.9'	S 11°09.7'	145°52.2'	S 7°14.9'	85°02.3'	S 21°54.9'	1°02.6'	S 7°05.4'
17	25°34.0'	S 11°08.5'	160°54.4'	S 7°15.0'	100°04.5'	S 21°54.9'	16°03.3'	S 7°04.7'
18	40°34.0'	S 11°07.4'	175°56.7'	S 7°15.0'	115°06.6'	S 21°54.9'	31°04.0'	S 7°03.9'
19	55°34.0'	S 11°06.2'	190°58.9'	S 7°15.1'	130°08.8'	S 21°54.9'	46°04.8'	S 7°03.1'
20	70°34.1'	S 11°05.1'	206°01.2'	S 7°15.2'	145°11.0'	S 21°55.0'	61°05.5'	S 7°02.4'
21	85°34.1'	S 11°04.0'	221°03.4'	S 7°15.3'	160°13.1'	S 21°55.0'	76°06.2'	S 7°01.6'
22	100°34.1'	S 11°02.8'	236°05.7'	S 7°15.3'	175°15.3'	S 21°55.0'	91°06.9'	S 7°00.9'
23	115°34.2'	S 11°01.7'	251°07.9'	S 7°15.4'	190°17.5'	S 21°55.0'	106°07.7'	S 7°00.1'

Sat Jan 7, 2017 UTC

UTC	Venus -4.2		Jupiter -1.8		Saturn +0.5		Mars +0.9	
	v = 0.1' d = 1.2'		v = 2.3' d = 0.1'		v = 2.2' d = 0.0'		v = 0.7' d = 0.8'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	130°34.2'	S 11°00.5'	266°10.2'	S 7°15.5'	205°19.6'	S 21°55.0'	121°08.4'	S 6°59.3'
1	145°34.2'	S 10°59.4'	281°12.4'	S 7°15.6'	220°21.8'	S 21°55.0'	136°09.1'	S 6°58.6'
2	160°34.3'	S 10°58.2'	296°14.7'	S 7°15.6'	235°24.0'	S 21°55.1'	151°09.8'	S 6°57.8'
3	175°34.3'	S 10°57.1'	311°16.9'	S 7°15.7'	250°26.1'	S 21°55.1'	166°10.6'	S 6°57.0'
4	190°34.4'	S 10°55.9'	326°19.2'	S 7°15.8'	265°28.3'	S 21°55.1'	181°11.3'	S 6°56.3'
5	205°34.4'	S 10°54.8'	341°21.4'	S 7°15.9'	280°30.5'	S 21°55.1'	196°12.0'	S 6°55.5'
6	220°34.5'	S 10°53.6'	356°23.7'	S 7°15.9'	295°32.6'	S 21°55.1'	211°12.8'	S 6°54.7'
7	235°34.5'	S 10°52.5'	11°25.9'	S 7°16.0'	310°34.8'	S 21°55.1'	226°13.5'	S 6°54.0'
8	250°34.5'	S 10°51.3'	26°28.2'	S 7°16.1'	325°36.9'	S 21°55.2'	241°14.2'	S 6°53.2'
9	265°34.6'	S 10°50.2'	41°30.4'	S 7°16.2'	340°39.1'	S 21°55.2'	256°14.9'	S 6°52.4'
10	280°34.6'	S 10°49.0'	56°32.7'	S 7°16.2'	355°41.3'	S 21°55.2'	271°15.7'	S 6°51.7'
11	295°34.7'	S 10°47.9'	71°34.9'	S 7°16.3'	10°43.4'	S 21°55.2'	286°16.4'	S 6°50.9'
12	310°34.7'	S 10°46.7'	86°37.2'	S 7°16.4'	25°45.6'	S 21°55.2'	301°17.1'	S 6°50.1'
13	325°34.8'	S 10°45.6'	101°39.4'	S 7°16.5'	40°47.8'	S 21°55.2'	316°17.9'	S 6°49.4'
14	340°34.8'	S 10°44.4'	116°41.7'	S 7°16.5'	55°49.9'	S 21°55.3'	331°18.6'	S 6°48.6'
15	355°34.9'	S 10°43.3'	131°44.0'	S 7°16.6'	70°52.1'	S 21°55.3'	346°19.3'	S 6°47.8'
16	10°34.9'	S 10°42.1'	146°46.2'	S 7°16.7'	85°54.3'	S 21°55.3'	1°20.0'	S 6°47.1'
17	25°35.0'	S 10°41.0'	161°48.5'	S 7°16.8'	100°56.4'	S 21°55.3'	16°20.8'	S 6°46.3'
18	40°35.0'	S 10°39.8'	176°50.7'	S 7°16.8'	115°58.6'	S 21°55.3'	31°21.5'	S 6°45.5'
19	55°35.1'	S 10°38.7'	191°53.0'	S 7°16.9'	131°00.8'	S 21°55.3'	46°22.2'	S 6°44.8'
20	70°35.2'	S 10°37.5'	206°55.2'	S 7°17.0'	146°02.9'	S 21°55.4'	61°23.0'	S 6°44.0'
21	85°35.2'	S 10°36.4'	221°57.5'	S 7°17.1'	161°05.1'	S 21°55.4'	76°23.7'	S 6°43.2'
22	100°35.3'	S 10°35.2'	236°59.7'	S 7°17.1'	176°07.3'	S 21°55.4'	91°24.4'	S 6°42.5'
23	115°35.3'	S 10°34.1'	252°02.0'	S 7°17.2'	191°09.4'	S 21°55.4'	106°25.1'	S 6°41.7'

Sun Jan 8, 2017 UTC

UTC	Venus -4.2		Jupiter -1.8		Saturn +0.5		Mars +0.9	
	v = 0.1' d = 1.2'		v = 2.3' d = 0.1'		v = 2.2' d = 0.0'		v = 0.7' d = 0.8'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	130°35.4'	S 10°32.9'	267°04.2'	S 7°17.3'	206°11.6'	S 21°55.4'	121°25.9'	S 6°40.9'
1	145°35.5'	S 10°31.8'	282°06.5'	S 7°17.3'	221°13.8'	S 21°55.4'	136°26.6'	S 6°40.2'
2	160°35.5'	S 10°30.6'	297°08.8'	S 7°17.4'	236°15.9'	S 21°55.5'	151°27.3'	S 6°39.4'
3	175°35.6'	S 10°29.5'	312°11.0'	S 7°17.5'	251°18.1'	S 21°55.5'	166°28.1'	S 6°38.6'
4	190°35.6'	S 10°28.3'	327°13.3'	S 7°17.6'	266°20.3'	S 21°55.5'	181°28.8'	S 6°37.9'
5	205°35.7'	S 10°27.2'	342°15.5'	S 7°17.6'	281°22.5'	S 21°55.5'	196°29.5'	S 6°37.1'
6	220°35.8'	S 10°26.0'	357°17.8'	S 7°17.7'	296°24.6'	S 21°55.5'	211°30.3'	S 6°36.3'
7	235°35.8'	S 10°24.8'	12°20.0'	S 7°17.8'	311°26.8'	S 21°55.5'	226°31.0'	S 6°35.6'
8	250°35.9'	S 10°23.7'	27°22.3'	S 7°17.8'	326°29.0'	S 21°55.6'	241°31.7'	S 6°34.8'
9	265°36.0'	S 10°22.5'	42°24.6'	S 7°17.9'	341°31.1'	S 21°55.6'	256°32.5'	S 6°34.0'
10	280°36.1'	S 10°21.4'	57°26.8'	S 7°18.0'	356°33.3'	S 21°55.6'	271°33.2'	S 6°33.3'
11	295°36.1'	S 10°20.2'	72°29.1'	S 7°18.1'	11°35.5'	S 21°55.6'	286°33.9'	S 6°32.5'
12	310°36.2'	S 10°19.1'	87°31.3'	S 7°18.1'	26°37.6'	S 21°55.6'	301°34.6'	S 6°31.7'
13	325°36.3'	S 10°17.9'	102°33.6'	S 7°18.2'	41°39.8'	S 21°55.6'	316°35.4'	S 6°31.0'
14	340°36.3'	S 10°16.7'	117°35.9'	S 7°18.3'	56°42.0'	S 21°55.7'	331°36.1'	S 6°30.2'
15	355°36.4'	S 10°15.6'	132°38.1'	S 7°18.3'	71°44.1'	S 21°55.7'	346°36.8'	S 6°29.4'
16	10°36.5'	S 10°14.4'	147°40.4'	S 7°18.4'	86°46.3'	S 21°55.7'	1°37.6'	S 6°28.6'
17	25°36.6'	S 10°13.3'	162°42.6'	S 7°18.5'	101°48.5'	S 21°55.7'	16°38.3'	S 6°27.9'
18	40°36.6'	S 10°12.1'	177°44.9'	S 7°18.6'	116°50.6'	S 21°55.7'	31°39.0'	S 6°27.1'
19	55°36.7'	S 10°11.0'	192°47.2'	S 7°18.6'	131°52.8'	S 21°55.7'	46°39.8'	S 6°26.3'
20	70°36.8'	S 10°09.8'	207°49.4'	S 7°18.7'	146°55.0'	S 21°55.8'	61°40.5'	S 6°25.6'
21	85°36.9'	S 10°08.6'	222°51.7'	S 7°18.8'	161°57.1'	S 21°55.8'	76°41.2'	S 6°24.8'
22	100°37.0'	S 10°07.5'	237°53.9'	S 7°18.8'	176°59.3'	S 21°55.8'	91°42.0'	S 6°24.0'
23	115°37.1'	S 10°06.3'	252°56.2'	S 7°18.9'	192°01.5'	S 21°55.8'	106°42.7'	S 6°23.3'

Mon Jan 9, 2017 UTC

UTC	Venus -4.2		Jupiter -1.9		Saturn +0.5		Mars +1.0	
	v = 0.1' d = 1.2'		v = 2.3' d = 0.1'		v = 2.2' d = 0.0'		v = 0.7' d = 0.8'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	130°37.1'	S 10°05.2'	267°58.5'	S 7°19.0'	207°03.6'	S 21°55.8'	121°43.4'	S 6°22.5'
1	145°37.2'	S 10°04.0'	283°00.7'	S 7°19.0'	222°05.8'	S 21°55.8'	136°44.2'	S 6°21.7'
2	160°37.3'	S 10°02.8'	298°03.0'	S 7°19.1'	237°08.0'	S 21°55.8'	151°44.9'	S 6°21.0'
3	175°37.4'	S 10°01.7'	313°05.3'	S 7°19.2'	252°10.1'	S 21°55.9'	166°45.6'	S 6°20.2'
4	190°37.5'	S 10°00.5'	328°07.5'	S 7°19.3'	267°12.3'	S 21°55.9'	181°46.4'	S 6°19.4'
5	205°37.6'	S 9°59.4'	343°09.8'	S 7°19.3'	282°14.5'	S 21°55.9'	196°47.1'	S 6°18.7'
6	220°37.7'	S 9°58.2'	358°12.0'	S 7°19.4'	297°16.7'	S 21°55.9'	211°47.8'	S 6°17.9'
7	235°37.8'	S 9°57.0'	13°14.3'	S 7°19.5'	312°18.8'	S 21°55.9'	226°48.6'	S 6°17.1'
8	250°37.8'	S 9°55.9'	28°16.6'	S 7°19.5'	327°21.0'	S 21°55.9'	241°49.3'	S 6°16.3'
9	265°37.9'	S 9°54.7'	43°18.8'	S 7°19.6'	342°23.2'	S 21°56.0'	256°50.0'	S 6°15.6'
10	280°38.0'	S 9°53.5'	58°21.1'	S 7°19.7'	357°25.3'	S 21°56.0'	271°50.8'	S 6°14.8'
11	295°38.1'	S 9°52.4'	73°23.4'	S 7°19.7'	12°27.5'	S 21°56.0'	286°51.5'	S 6°14.0'
12	310°38.2'	S 9°51.2'	88°25.6'	S 7°19.8'	27°29.7'	S 21°56.0'	301°52.2'	S 6°13.3'
13	325°38.3'	S 9°50.1'	103°27.9'	S 7°19.9'	42°31.8'	S 21°56.0'	316°53.0'	S 6°12.5'
14	340°38.4'	S 9°48.9'	118°30.2'	S 7°19.9'	57°34.0'	S 21°56.0'	331°53.7'	S 6°11.7'
15	355°38.5'	S 9°47.7'	133°32.4'	S 7°20.0'	72°36.2'	S 21°56.1'	346°54.4'	S 6°11.0'
16	10°38.6'	S 9°46.6'	148°34.7'	S 7°20.1'	87°38.3'	S 21°56.1'	1°55.2'	S 6°10.2'
17	25°38.7'	S 9°45.4'	163°37.0'	S 7°20.1'	102°40.5'	S 21°56.1'	16°55.9'	S 6°09.4'
18	40°38.8'	S 9°44.2'	178°39.2'	S 7°20.2'	117°42.7'	S 21°56.1'	31°56.6'	S 6°08.6'
19	55°38.9'	S 9°43.1'	193°41.5'	S 7°20.3'	132°44.9'	S 21°56.1'	46°57.4'	S 6°07.9'
20	70°39.0'	S 9°41.9'	208°43.8'	S 7°20.3'	147°47.0'	S 21°56.1'	61°58.1'	S 6°07.1'
21	85°39.1'	S 9°40.7'	223°46.0'	S 7°20.4'	162°49.2'	S 21°56.1'	76°58.8'	S 6°06.3'
22	100°39.2'	S 9°39.6'	238°48.3'	S 7°20.5'	177°51.4'	S 21°56.2'	91°59.6'	S 6°05.6'
23	115°39.3'	S 9°38.4'	253°50.6'	S 7°20.6'	192°53.5'	S 21°56.2'	107°00.3'	S 6°04.8'

Tue Jan 10, 2017 UTC

UTC	Venus -4.2		Jupiter -1.9		Saturn +0.5		Mars +1.0	
	v = 0.1' d = 1.2'		v = 2.3' d = 0.1'		v = 2.2' d = 0.0'		v = 0.7' d = 0.8'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	130°39.4'	S 9°37.3'	268°52.8'	S 7°20.6'	207°55.7'	S 21°56.2'	122°01.0'	S 6°04.0'
1	145°39.5'	S 9°36.1'	283°55.1'	S 7°20.7'	222°57.9'	S 21°56.2'	137°01.8'	S 6°03.3'
2	160°39.7'	S 9°34.9'	298°57.4'	S 7°20.8'	238°00.0'	S 21°56.2'	152°02.5'	S 6°02.5'
3	175°39.8'	S 9°33.8'	313°59.6'	S 7°20.8'	253°02.2'	S 21°56.2'	167°03.2'	S 6°01.7'
4	190°39.9'	S 9°32.6'	329°01.9'	S 7°20.9'	268°04.4'	S 21°56.3'	182°04.0'	S 6°00.9'
5	205°40.0'	S 9°31.4'	344°04.2'	S 7°21.0'	283°06.6'	S 21°56.3'	197°04.7'	S 6°00.2'
6	220°40.1'	S 9°30.3'	359°06.4'	S 7°21.0'	298°08.7'	S 21°56.3'	212°05.5'	S 5°59.4'
7	235°40.2'	S 9°29.1'	14°08.7'	S 7°21.1'	313°10.9'	S 21°56.3'	227°06.2'	S 5°58.6'
8	250°40.3'	S 9°27.9'	29°11.0'	S 7°21.2'	328°13.1'	S 21°56.3'	242°06.9'	S 5°57.9'
9	265°40.4'	S 9°26.7'	44°13.3'	S 7°21.2'	343°15.2'	S 21°56.3'	257°07.7'	S 5°57.1'
10	280°40.6'	S 9°25.6'	59°15.5'	S 7°21.3'	358°17.4'	S 21°56.4'	272°08.4'	S 5°56.3'
11	295°40.7'	S 9°24.4'	74°17.8'	S 7°21.4'	13°19.6'	S 21°56.4'	287°09.1'	S 5°55.5'
12	310°40.8'	S 9°23.2'	89°20.1'	S 7°21.4'	28°21.8'	S 21°56.4'	302°09.9'	S 5°54.8'
13	325°40.9'	S 9°22.1'	104°22.3'	S 7°21.5'	43°23.9'	S 21°56.4'	317°10.6'	S 5°54.0'
14	340°41.0'	S 9°20.9'	119°24.6'	S 7°21.5'	58°26.1'	S 21°56.4'	332°11.3'	S 5°53.2'
15	355°41.2'	S 9°19.7'	134°26.9'	S 7°21.6'	73°28.3'	S 21°56.4'	347°12.1'	S 5°52.5'
16	10°41.3'	S 9°18.6'	149°29.2'	S 7°21.7'	88°30.4'	S 21°56.4'	2°12.8'	S 5°51.7'
17	25°41.4'	S 9°17.4'	164°31.4'	S 7°21.7'	103°32.6'	S 21°56.5'	17°13.6'	S 5°50.9'
18	40°41.5'	S 9°16.2'	179°33.7'	S 7°21.8'	118°34.8'	S 21°56.5'	32°14.3'	S 5°50.1'
19	55°41.7'	S 9°15.1'	194°36.0'	S 7°21.9'	133°37.0'	S 21°56.5'	47°15.0'	S 5°49.4'
20	70°41.8'	S 9°13.9'	209°38.3'	S 7°21.9'	148°39.1'	S 21°56.5'	62°15.8'	S 5°48.6'
21	85°41.9'	S 9°12.7'	224°40.5'	S 7°22.0'	163°41.3'	S 21°56.5'	77°16.5'	S 5°47.8'
22	100°42.0'	S 9°11.5'	239°42.8'	S 7°22.1'	178°43.5'	S 21°56.5'	92°17.2'	S 5°47.1'
23	115°42.2'	S 9°10.4'	254°45.1'	S 7°22.1'	193°45.6'	S 21°56.6'	107°18.0'	S 5°46.3'

Wed Jan 11, 2017 UTC

UTC	Venus -4.2		Jupiter -1.9		Saturn +0.5		Mars +1.0	
	v = 0.1' d = 1.2'		v = 2.3' d = 0.1'		v = 2.2' d = 0.0'		v = 0.7' d = 0.8'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	130°42.3'	S 9°09.2'	269°47.4'	S 7°22.2'	208°47.8'	S 21°56.6'	122°18.7'	S 5°45.5'
1	145°42.4'	S 9°08.0'	284°49.6'	S 7°22.3'	223°50.0'	S 21°56.6'	137°19.5'	S 5°44.7'
2	160°42.6'	S 9°06.9'	299°51.9'	S 7°22.3'	238°52.2'	S 21°56.6'	152°20.2'	S 5°44.0'
3	175°42.7'	S 9°05.7'	314°54.2'	S 7°22.4'	253°54.3'	S 21°56.6'	167°20.9'	S 5°43.2'
4	190°42.8'	S 9°04.5'	329°56.5'	S 7°22.5'	268°56.5'	S 21°56.6'	182°21.7'	S 5°42.4'
5	205°43.0'	S 9°03.3'	344°58.7'	S 7°22.5'	283°58.7'	S 21°56.6'	197°22.4'	S 5°41.7'
6	220°43.1'	S 9°02.2'	0°01.0'	S 7°22.6'	299°00.8'	S 21°56.7'	212°23.1'	S 5°40.9'
7	235°43.2'	S 9°01.0'	15°03.3'	S 7°22.7'	314°03.0'	S 21°56.7'	227°23.9'	S 5°40.1'
8	250°43.4'	S 8°59.8'	30°05.6'	S 7°22.7'	329°05.2'	S 21°56.7'	242°24.6'	S 5°39.3'
9	265°43.5'	S 8°58.7'	45°07.8'	S 7°22.8'	344°07.4'	S 21°56.7'	257°25.4'	S 5°38.6'
10	280°43.7'	S 8°57.5'	60°10.1'	S 7°22.8'	359°09.5'	S 21°56.7'	272°26.1'	S 5°37.8'
11	295°43.8'	S 8°56.3'	75°12.4'	S 7°22.9'	14°11.7'	S 21°56.7'	287°26.8'	S 5°37.0'
12	310°44.0'	S 8°55.1'	90°14.7'	S 7°23.0'	29°13.9'	S 21°56.8'	302°27.6'	S 5°36.3'
13	325°44.1'	S 8°54.0'	105°16.9'	S 7°23.0'	44°16.0'	S 21°56.8'	317°28.3'	S 5°35.5'
14	340°44.2'	S 8°52.8'	120°19.2'	S 7°23.1'	59°18.2'	S 21°56.8'	332°29.1'	S 5°34.7'
15	355°44.4'	S 8°51.6'	135°21.5'	S 7°23.2'	74°20.4'	S 21°56.8'	347°29.8'	S 5°33.9'
16	10°44.5'	S 8°50.4'	150°23.8'	S 7°23.2'	89°22.6'	S 21°56.8'	2°30.5'	S 5°33.2'
17	25°44.7'	S 8°49.3'	165°26.1'	S 7°23.3'	104°24.7'	S 21°56.8'	17°31.3'	S 5°32.4'
18	40°44.8'	S 8°48.1'	180°28.3'	S 7°23.3'	119°26.9'	S 21°56.8'	32°32.0'	S 5°31.6'
19	55°45.0'	S 8°46.9'	195°30.6'	S 7°23.4'	134°29.1'	S 21°56.9'	47°32.7'	S 5°30.8'
20	70°45.1'	S 8°45.7'	210°32.9'	S 7°23.5'	149°31.3'	S 21°56.9'	62°33.5'	S 5°30.1'
21	85°45.3'	S 8°44.6'	225°35.2'	S 7°23.5'	164°33.4'	S 21°56.9'	77°34.2'	S 5°29.3'
22	100°45.4'	S 8°43.4'	240°37.5'	S 7°23.6'	179°35.6'	S 21°56.9'	92°35.0'	S 5°28.5'
23	115°45.6'	S 8°42.2'	255°39.7'	S 7°23.7'	194°37.8'	S 21°56.9'	107°35.7'	S 5°27.7'

Thu Jan 12, 2017 UTC

UTC	Venus -4.3		Jupiter -1.9		Saturn +0.5		Mars +1.0	
	v = 0.2' d = 1.2'		v = 2.3' d = 0.1'		v = 2.2' d = 0.0'		v = 0.7' d = 0.8'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	130°45.7'	S 8°41.0'	270°42.0'	S 7°23.7'	209°39.9'	S 21°56.9'	122°36.4'	S 5°27.0'
1	145°45.9'	S 8°39.9'	285°44.3'	S 7°23.8'	224°42.1'	S 21°57.0'	137°37.2'	S 5°26.2'
2	160°46.0'	S 8°38.7'	300°46.6'	S 7°23.8'	239°44.3'	S 21°57.0'	152°37.9'	S 5°25.4'
3	175°46.2'	S 8°37.5'	315°48.9'	S 7°23.9'	254°46.5'	S 21°57.0'	167°38.7'	S 5°24.7'
4	190°46.4'	S 8°36.3'	330°51.2'	S 7°24.0'	269°48.6'	S 21°57.0'	182°39.4'	S 5°23.9'
5	205°46.5'	S 8°35.2'	345°53.4'	S 7°24.0'	284°50.8'	S 21°57.0'	197°40.1'	S 5°23.1'
6	220°46.7'	S 8°34.0'	0°55.7'	S 7°24.1'	299°53.0'	S 21°57.0'	212°40.9'	S 5°22.3'
7	235°46.8'	S 8°32.8'	15°58.0'	S 7°24.2'	314°55.2'	S 21°57.0'	227°41.6'	S 5°21.6'
8	250°47.0'	S 8°31.6'	31°00.3'	S 7°24.2'	329°57.3'	S 21°57.1'	242°42.4'	S 5°20.8'
9	265°47.2'	S 8°30.4'	46°02.6'	S 7°24.3'	344°59.5'	S 21°57.1'	257°43.1'	S 5°20.0'
10	280°47.3'	S 8°29.3'	61°04.8'	S 7°24.3'	0°01.7'	S 21°57.1'	272°43.9'	S 5°19.2'
11	295°47.5'	S 8°28.1'	76°07.1'	S 7°24.4'	15°03.9'	S 21°57.1'	287°44.6'	S 5°18.5'
12	310°47.7'	S 8°26.9'	91°09.4'	S 7°24.5'	30°06.0'	S 21°57.1'	302°45.3'	S 5°17.7'
13	325°47.8'	S 8°25.7'	106°11.7'	S 7°24.5'	45°08.2'	S 21°57.1'	317°46.1'	S 5°16.9'
14	340°48.0'	S 8°24.6'	121°14.0'	S 7°24.6'	60°10.4'	S 21°57.1'	332°46.8'	S 5°16.1'
15	355°48.2'	S 8°23.4'	136°16.3'	S 7°24.6'	75°12.6'	S 21°57.2'	347°47.6'	S 5°15.4'
16	10°48.3'	S 8°22.2'	151°18.6'	S 7°24.7'	90°14.7'	S 21°57.2'	2°48.3'	S 5°14.6'
17	25°48.5'	S 8°21.0'	166°20.8'	S 7°24.8'	105°16.9'	S 21°57.2'	17°49.0'	S 5°13.8'
18	40°48.7'	S 8°19.8'	181°23.1'	S 7°24.8'	120°19.1'	S 21°57.2'	32°49.8'	S 5°13.1'
19	55°48.9'	S 8°18.7'	196°25.4'	S 7°24.9'	135°21.3'	S 21°57.2'	47°50.5'	S 5°12.3'
20	70°49.0'	S 8°17.5'	211°27.7'	S 7°24.9'	150°23.4'	S 21°57.2'	62°51.3'	S 5°11.5'
21	85°49.2'	S 8°16.3'	226°30.0'	S 7°25.0'	165°25.6'	S 21°57.2'	77°52.0'	S 5°10.7'
22	100°49.4'	S 8°15.1'	241°32.3'	S 7°25.1'	180°27.8'	S 21°57.3'	92°52.8'	S 5°10.0'
23	115°49.6'	S 8°13.9'	256°34.6'	S 7°25.1'	195°30.0'	S 21°57.3'	107°53.5'	S 5°09.2'

Fri Jan 13, 2017 UTC

UTC	Venus -4.3		Jupiter -1.9		Saturn +0.5		Mars +1.0	
	v = 0.2' d = 1.2'		v = 2.3' d = 0.1'		v = 2.2' d = 0.0'		v = 0.7' d = 0.8'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	130°49.7'	S 8°12.8'	271°36.8'	S 7°25.2'	210°32.1'	S 21°57.3'	122°54.2'	S 5°08.4'
1	145°49.9'	S 8°11.6'	286°39.1'	S 7°25.2'	225°34.3'	S 21°57.3'	137°55.0'	S 5°07.6'
2	160°50.1'	S 8°10.4'	301°41.4'	S 7°25.3'	240°36.5'	S 21°57.3'	152°55.7'	S 5°06.9'
3	175°50.3'	S 8°09.2'	316°43.7'	S 7°25.4'	255°38.7'	S 21°57.3'	167°56.5'	S 5°06.1'
4	190°50.5'	S 8°08.0'	331°46.0'	S 7°25.4'	270°40.8'	S 21°57.4'	182°57.2'	S 5°05.3'
5	205°50.6'	S 8°06.9'	346°48.3'	S 7°25.5'	285°43.0'	S 21°57.4'	197°57.9'	S 5°04.5'
6	220°50.8'	S 8°05.7'	1°50.6'	S 7°25.5'	300°45.2'	S 21°57.4'	212°58.7'	S 5°03.8'
7	235°51.0'	S 8°04.5'	16°52.9'	S 7°25.6'	315°47.4'	S 21°57.4'	227°59.4'	S 5°03.0'
8	250°51.2'	S 8°03.3'	31°55.2'	S 7°25.6'	330°49.5'	S 21°57.4'	243°00.2'	S 5°02.2'
9	265°51.4'	S 8°02.1'	46°57.5'	S 7°25.7'	345°51.7'	S 21°57.4'	258°00.9'	S 5°01.4'
10	280°51.6'	S 8°01.0'	61°59.7'	S 7°25.8'	0°53.9'	S 21°57.4'	273°01.7'	S 5°00.7'
11	295°51.8'	S 7°59.8'	77°02.0'	S 7°25.8'	15°56.1'	S 21°57.5'	288°02.4'	S 4°59.9'
12	310°52.0'	S 7°58.6'	92°04.3'	S 7°25.9'	30°58.2'	S 21°57.5'	303°03.1'	S 4°59.1'
13	325°52.1'	S 7°57.4'	107°06.6'	S 7°25.9'	46°00.4'	S 21°57.5'	318°03.9'	S 4°58.3'
14	340°52.3'	S 7°56.2'	122°08.9'	S 7°26.0'	61°02.6'	S 21°57.5'	333°04.6'	S 4°57.6'
15	355°52.5'	S 7°55.0'	137°11.2'	S 7°26.1'	76°04.8'	S 21°57.5'	348°05.4'	S 4°56.8'
16	10°52.7'	S 7°53.9'	152°13.5'	S 7°26.1'	91°06.9'	S 21°57.5'	3°06.1'	S 4°56.0'
17	25°52.9'	S 7°52.7'	167°15.8'	S 7°26.2'	106°09.1'	S 21°57.5'	18°06.9'	S 4°55.2'
18	40°53.1'	S 7°51.5'	182°18.1'	S 7°26.2'	121°11.3'	S 21°57.6'	33°07.6'	S 4°54.5'
19	55°53.3'	S 7°50.3'	197°20.4'	S 7°26.3'	136°13.5'	S 21°57.6'	48°08.4'	S 4°53.7'
20	70°53.5'	S 7°49.1'	212°22.7'	S 7°26.3'	151°15.6'	S 21°57.6'	63°09.1'	S 4°52.9'
21	85°53.7'	S 7°47.9'	227°25.0'	S 7°26.4'	166°17.8'	S 21°57.6'	78°09.8'	S 4°52.1'
22	100°53.9'	S 7°46.8'	242°27.2'	S 7°26.5'	181°20.0'	S 21°57.6'	93°10.6'	S 4°51.4'
23	115°54.1'	S 7°45.6'	257°29.5'	S 7°26.5'	196°22.2'	S 21°57.6'	108°11.3'	S 4°50.6'

Sat Jan 14, 2017 UTC

UTC	Venus -4.3		Jupiter -1.9		Saturn +0.5		Mars +1.0	
	v = 0.2' d = 1.2'		v = 2.3' d = 0.1'		v = 2.2' d = 0.0'		v = 0.7' d = 0.8'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	130°54.3'	S 7°44.4'	272°31.8'	S 7°26.6'	211°24.3'	S 21°57.6'	123°12.1'	S 4°49.8'
1	145°54.5'	S 7°43.2'	287°34.1'	S 7°26.6'	226°26.5'	S 21°57.7'	138°12.8'	S 4°49.0'
2	160°54.7'	S 7°42.0'	302°36.4'	S 7°26.7'	241°28.7'	S 21°57.7'	153°13.6'	S 4°48.3'
3	175°54.9'	S 7°40.8'	317°38.7'	S 7°26.7'	256°30.9'	S 21°57.7'	168°14.3'	S 4°47.5'
4	190°55.1'	S 7°39.7'	332°41.0'	S 7°26.8'	271°33.1'	S 21°57.7'	183°15.1'	S 4°46.7'
5	205°55.3'	S 7°38.5'	347°43.3'	S 7°26.8'	286°35.2'	S 21°57.7'	198°15.8'	S 4°45.9'
6	220°55.6'	S 7°37.3'	2°45.6'	S 7°26.9'	301°37.4'	S 21°57.7'	213°16.5'	S 4°45.2'
7	235°55.8'	S 7°36.1'	17°47.9'	S 7°27.0'	316°39.6'	S 21°57.7'	228°17.3'	S 4°44.4'
8	250°56.0'	S 7°34.9'	32°50.2'	S 7°27.0'	331°41.8'	S 21°57.8'	243°18.0'	S 4°43.6'
9	265°56.2'	S 7°33.7'	47°52.5'	S 7°27.1'	346°43.9'	S 21°57.8'	258°18.8'	S 4°42.8'
10	280°56.4'	S 7°32.5'	62°54.8'	S 7°27.1'	1°46.1'	S 21°57.8'	273°19.5'	S 4°42.0'
11	295°56.6'	S 7°31.4'	77°57.1'	S 7°27.2'	16°48.3'	S 21°57.8'	288°20.3'	S 4°41.3'
12	310°56.8'	S 7°30.2'	92°59.4'	S 7°27.2'	31°50.5'	S 21°57.8'	303°21.0'	S 4°40.5'
13	325°57.0'	S 7°29.0'	108°01.7'	S 7°27.3'	46°52.7'	S 21°57.8'	318°21.8'	S 4°39.7'
14	340°57.3'	S 7°27.8'	123°04.0'	S 7°27.3'	61°54.8'	S 21°57.8'	333°22.5'	S 4°38.9'
15	355°57.5'	S 7°26.6'	138°06.3'	S 7°27.4'	76°57.0'	S 21°57.9'	348°23.3'	S 4°38.2'
16	10°57.7'	S 7°25.4'	153°08.6'	S 7°27.5'	91°59.2'	S 21°57.9'	3°24.0'	S 4°37.4'
17	25°57.9'	S 7°24.3'	168°10.9'	S 7°27.5'	107°01.4'	S 21°57.9'	18°24.7'	S 4°36.6'
18	40°58.1'	S 7°23.1'	183°13.2'	S 7°27.6'	122°03.5'	S 21°57.9'	33°25.5'	S 4°35.8'
19	55°58.4'	S 7°21.9'	198°15.5'	S 7°27.6'	137°05.7'	S 21°57.9'	48°26.2'	S 4°35.1'
20	70°58.6'	S 7°20.7'	213°17.8'	S 7°27.7'	152°07.9'	S 21°57.9'	63°27.0'	S 4°34.3'
21	85°58.8'	S 7°19.5'	228°20.1'	S 7°27.7'	167°10.1'	S 21°57.9'	78°27.7'	S 4°33.5'
22	100°59.0'	S 7°18.3'	243°22.4'	S 7°27.8'	182°12.3'	S 21°58.0'	93°28.5'	S 4°32.7'
23	115°59.2'	S 7°17.1'	258°24.7'	S 7°27.8'	197°14.4'	S 21°58.0'	108°29.2'	S 4°32.0'

Sun Jan 15, 2017 UTC

UTC	Venus -4.3 v = 0.2' d = 1.2'		Jupiter -1.9 v = 2.3' d = 0.1'		Saturn +0.5 v = 2.2' d = 0.0'		Mars +1.0 v = 0.7' d = 0.8'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	130°59.5'	S 7°15.9'	273°27.0'	S 7°27.9'	212°16.6'	S 21°58.0'	123°30.0'	S 4°31.2'
1	145°59.7'	S 7°14.8'	288°29.3'	S 7°27.9'	227°18.8'	S 21°58.0'	138°30.7'	S 4°30.4'
2	160°59.9'	S 7°13.6'	303°31.6'	S 7°28.0'	242°21.0'	S 21°58.0'	153°31.5'	S 4°29.6'
3	176°00.2'	S 7°12.4'	318°33.9'	S 7°28.1'	257°23.1'	S 21°58.0'	168°32.2'	S 4°28.9'
4	191°00.4'	S 7°11.2'	333°36.2'	S 7°28.1'	272°25.3'	S 21°58.0'	183°33.0'	S 4°28.1'
5	206°00.6'	S 7°10.0'	348°38.5'	S 7°28.2'	287°27.5'	S 21°58.0'	198°33.7'	S 4°27.3'
6	221°00.9'	S 7°08.8'	3°40.8'	S 7°28.2'	302°29.7'	S 21°58.1'	213°34.4'	S 4°26.5'
7	236°01.1'	S 7°07.6'	18°43.1'	S 7°28.3'	317°31.9'	S 21°58.1'	228°35.2'	S 4°25.7'
8	251°01.3'	S 7°06.4'	33°45.4'	S 7°28.3'	332°34.0'	S 21°58.1'	243°35.9'	S 4°25.0'
9	266°01.6'	S 7°05.3'	48°47.7'	S 7°28.4'	347°36.2'	S 21°58.1'	258°36.7'	S 4°24.2'
10	281°01.8'	S 7°04.1'	63°50.0'	S 7°28.4'	2°38.4'	S 21°58.1'	273°37.4'	S 4°23.4'
11	296°02.0'	S 7°02.9'	78°52.3'	S 7°28.5'	17°40.6'	S 21°58.1'	288°38.2'	S 4°22.6'
12	311°02.3'	S 7°01.7'	93°54.6'	S 7°28.5'	32°42.8'	S 21°58.1'	303°38.9'	S 4°21.9'
13	326°02.5'	S 7°00.5'	108°56.9'	S 7°28.6'	47°44.9'	S 21°58.2'	318°39.7'	S 4°21.1'
14	341°02.8'	S 6°59.3'	123°59.2'	S 7°28.6'	62°47.1'	S 21°58.2'	333°40.4'	S 4°20.3'
15	356°03.0'	S 6°58.1'	139°01.5'	S 7°28.7'	77°49.3'	S 21°58.2'	348°41.2'	S 4°19.5'
16	11°03.2'	S 6°56.9'	154°03.8'	S 7°28.7'	92°51.5'	S 21°58.2'	3°41.9'	S 4°18.8'
17	26°03.5'	S 6°55.8'	169°06.1'	S 7°28.8'	107°53.7'	S 21°58.2'	18°42.7'	S 4°18.0'
18	41°03.7'	S 6°54.6'	184°08.4'	S 7°28.8'	122°55.8'	S 21°58.2'	33°43.4'	S 4°17.2'
19	56°04.0'	S 6°53.4'	199°10.7'	S 7°28.9'	137°58.0'	S 21°58.2'	48°44.2'	S 4°16.4'
20	71°04.2'	S 6°52.2'	214°13.0'	S 7°28.9'	153°00.2'	S 21°58.3'	63°44.9'	S 4°15.6'
21	86°04.5'	S 6°51.0'	229°15.3'	S 7°29.0'	168°02.4'	S 21°58.3'	78°45.7'	S 4°14.9'
22	101°04.7'	S 6°49.8'	244°17.7'	S 7°29.0'	183°04.6'	S 21°58.3'	93°46.4'	S 4°14.1'
23	116°05.0'	S 6°48.6'	259°20.0'	S 7°29.1'	198°06.7'	S 21°58.3'	108°47.2'	S 4°13.3'

Mon Jan 16, 2017 UTC

UTC	Venus -4.3 v = 0.3' d = 1.2'		Jupiter -1.9 v = 2.3' d = 0.0'		Saturn +0.5 v = 2.2' d = 0.0'		Mars +1.0 v = 0.7' d = 0.8'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	131°05.2'	S 6°47.4'	274°22.3'	S 7°29.1'	213°08.9'	S 21°58.3'	123°47.9'	S 4°12.5'
1	146°05.5'	S 6°46.2'	289°24.6'	S 7°29.2'	228°11.1'	S 21°58.3'	138°48.7'	S 4°11.8'
2	161°05.7'	S 6°45.1'	304°26.9'	S 7°29.3'	243°13.3'	S 21°58.3'	153°49.4'	S 4°11.0'
3	176°06.0'	S 6°43.9'	319°29.2'	S 7°29.3'	258°15.5'	S 21°58.3'	168°50.2'	S 4°10.2'
4	191°06.2'	S 6°42.7'	334°31.5'	S 7°29.4'	273°17.6'	S 21°58.4'	183°50.9'	S 4°09.4'
5	206°06.5'	S 6°41.5'	349°33.8'	S 7°29.4'	288°19.8'	S 21°58.4'	198°51.7'	S 4°08.7'
6	221°06.7'	S 6°40.3'	4°36.1'	S 7°29.5'	303°22.0'	S 21°58.4'	213°52.4'	S 4°07.9'
7	236°07.0'	S 6°39.1'	19°38.4'	S 7°29.5'	318°24.2'	S 21°58.4'	228°53.2'	S 4°07.1'
8	251°07.3'	S 6°37.9'	34°40.7'	S 7°29.6'	333°26.4'	S 21°58.4'	243°53.9'	S 4°06.3'
9	266°07.5'	S 6°36.7'	49°43.0'	S 7°29.6'	348°28.5'	S 21°58.4'	258°54.7'	S 4°05.5'
10	281°07.8'	S 6°35.5'	64°45.4'	S 7°29.7'	3°30.7'	S 21°58.4'	273°55.4'	S 4°04.8'
11	296°08.0'	S 6°34.3'	79°47.7'	S 7°29.7'	18°32.9'	S 21°58.5'	288°56.1'	S 4°04.0'
12	311°08.3'	S 6°33.2'	94°50.0'	S 7°29.8'	33°35.1'	S 21°58.5'	303°56.9'	S 4°03.2'
13	326°08.6'	S 6°32.0'	109°52.3'	S 7°29.8'	48°37.3'	S 21°58.5'	318°57.6'	S 4°02.4'
14	341°08.8'	S 6°30.8'	124°54.6'	S 7°29.9'	63°39.4'	S 21°58.5'	333°58.4'	S 4°01.7'
15	356°09.1'	S 6°29.6'	139°56.9'	S 7°29.9'	78°41.6'	S 21°58.5'	348°59.1'	S 4°00.9'
16	11°09.4'	S 6°28.4'	154°59.2'	S 7°30.0'	93°43.8'	S 21°58.5'	3°59.9'	S 4°00.1'
17	26°09.6'	S 6°27.2'	170°01.5'	S 7°30.0'	108°46.0'	S 21°58.5'	19°00.6'	S 3°59.3'
18	41°09.9'	S 6°26.0'	185°03.9'	S 7°30.1'	123°48.2'	S 21°58.6'	34°01.4'	S 3°58.5'
19	56°10.2'	S 6°24.8'	200°06.2'	S 7°30.1'	138°50.4'	S 21°58.6'	49°02.1'	S 3°57.8'
20	71°10.5'	S 6°23.6'	215°08.5'	S 7°30.1'	153°52.5'	S 21°58.6'	64°02.9'	S 3°57.0'
21	86°10.7'	S 6°22.4'	230°10.8'	S 7°30.2'	168°54.7'	S 21°58.6'	79°03.6'	S 3°56.2'
22	101°11.0'	S 6°21.3'	245°13.1'	S 7°30.2'	183°56.9'	S 21°58.6'	94°04.4'	S 3°55.4'
23	116°11.3'	S 6°20.1'	260°15.4'	S 7°30.3'	198°59.1'	S 21°58.6'	109°05.1'	S 3°54.7'

Tue Jan 17, 2017 UTC

UTC	Venus -4.3 v = 0.3' d = 1.2'		Jupiter -1.9 v = 2.3' d = 0.0'		Saturn +0.5 v = 2.2' d = 0.0'		Mars +1.0 v = 0.8' d = 0.8'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	131°11.6'	S 6°18.9'	275°17.7'	S 7°30.3'	214°01.3'	S 21°58.6'	124°05.9'	S 3°53.9'
1	146°11.8'	S 6°17.7'	290°20.0'	S 7°30.4'	229°03.4'	S 21°58.6'	139°06.6'	S 3°53.1'
2	161°12.1'	S 6°16.5'	305°22.4'	S 7°30.4'	244°05.6'	S 21°58.7'	154°07.4'	S 3°52.3'
3	176°12.4'	S 6°15.3'	320°24.7'	S 7°30.5'	259°07.8'	S 21°58.7'	169°08.2'	S 3°51.5'
4	191°12.7'	S 6°14.1'	335°27.0'	S 7°30.5'	274°10.0'	S 21°58.7'	184°08.9'	S 3°50.8'
5	206°12.9'	S 6°12.9'	350°29.3'	S 7°30.6'	289°12.2'	S 21°58.7'	199°09.7'	S 3°50.0'
6	221°13.2'	S 6°11.7'	5°31.6'	S 7°30.6'	304°14.4'	S 21°58.7'	214°10.4'	S 3°49.2'
7	236°13.5'	S 6°10.5'	20°33.9'	S 7°30.7'	319°16.5'	S 21°58.7'	229°11.2'	S 3°48.4'
8	251°13.8'	S 6°09.3'	35°36.3'	S 7°30.7'	334°18.7'	S 21°58.7'	244°11.9'	S 3°47.7'
9	266°14.1'	S 6°08.1'	50°38.6'	S 7°30.8'	349°20.9'	S 21°58.7'	259°12.7'	S 3°46.9'
10	281°14.4'	S 6°07.0'	65°40.9'	S 7°30.8'	4°23.1'	S 21°58.8'	274°13.4'	S 3°46.1'
11	296°14.7'	S 6°05.8'	80°43.2'	S 7°30.9'	19°25.3'	S 21°58.8'	289°14.2'	S 3°45.3'
12	311°14.9'	S 6°04.6'	95°45.5'	S 7°30.9'	34°27.5'	S 21°58.8'	304°14.9'	S 3°44.5'
13	326°15.2'	S 6°03.4'	110°47.8'	S 7°31.0'	49°29.6'	S 21°58.8'	319°15.7'	S 3°43.8'
14	341°15.5'	S 6°02.2'	125°50.2'	S 7°31.0'	64°31.8'	S 21°58.8'	334°16.4'	S 3°43.0'
15	356°15.8'	S 6°01.0'	140°52.5'	S 7°31.1'	79°34.0'	S 21°58.8'	349°17.2'	S 3°42.2'
16	11°16.1'	S 5°59.8'	155°54.8'	S 7°31.1'	94°36.2'	S 21°58.8'	4°17.9'	S 3°41.4'
17	26°16.4'	S 5°58.6'	170°57.1'	S 7°31.1'	109°38.4'	S 21°58.9'	19°18.7'	S 3°40.6'
18	41°16.7'	S 5°57.4'	185°59.4'	S 7°31.2'	124°40.6'	S 21°58.9'	34°19.4'	S 3°39.9'
19	56°17.0'	S 5°56.2'	201°01.7'	S 7°31.2'	139°42.7'	S 21°58.9'	49°20.2'	S 3°39.1'
20	71°17.3'	S 5°55.0'	216°04.1'	S 7°31.3'	154°44.9'	S 21°58.9'	64°20.9'	S 3°38.3'
21	86°17.6'	S 5°53.8'	231°06.4'	S 7°31.3'	169°47.1'	S 21°58.9'	79°21.7'	S 3°37.5'
22	101°17.9'	S 5°52.6'	246°08.7'	S 7°31.4'	184°49.3'	S 21°58.9'	94°22.4'	S 3°36.8'
23	116°18.2'	S 5°51.5'	261°11.0'	S 7°31.4'	199°51.5'	S 21°58.9'	109°23.2'	S 3°36.0'

Wed Jan 18, 2017 UTC

UTC	Venus -4.3 v = 0.3' d = 1.2'		Jupiter -1.9 v = 2.3' d = 0.0'		Saturn +0.5 v = 2.2' d = 0.0'		Mars +1.0 v = 0.8' d = 0.8'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	131°18.5'	S 5°50.3'	276°13.4'	S 7°31.5'	214°53.7'	S 21°58.9'	124°23.9'	S 3°35.2'
1	146°18.8'	S 5°49.1'	291°15.7'	S 7°31.5'	229°55.8'	S 21°59.0'	139°24.7'	S 3°34.4'
2	161°19.1'	S 5°47.9'	306°18.0'	S 7°31.6'	244°58.0'	S 21°59.0'	154°25.4'	S 3°33.6'
3	176°19.4'	S 5°46.7'	321°20.3'	S 7°31.6'	260°00.2'	S 21°59.0'	169°26.2'	S 3°32.9'
4	191°19.7'	S 5°45.5'	336°22.6'	S 7°31.7'	275°02.4'	S 21°59.0'	184°26.9'	S 3°32.1'
5	206°20.0'	S 5°44.3'	351°25.0'	S 7°31.7'	290°04.6'	S 21°59.0'	199°27.7'	S 3°31.3'
6	221°20.3'	S 5°43.1'	6°27.3'	S 7°31.7'	305°06.8'	S 21°59.0'	214°28.4'	S 3°30.5'
7	236°20.6'	S 5°41.9'	21°29.6'	S 7°31.8'	320°08.9'	S 21°59.0'	229°29.2'	S 3°29.7'
8	251°20.9'	S 5°40.7'	36°31.9'	S 7°31.8'	335°11.1'	S 21°59.0'	244°30.0'	S 3°29.0'
9	266°21.2'	S 5°39.5'	51°34.3'	S 7°31.9'	350°13.3'	S 21°59.1'	259°30.7'	S 3°28.2'
10	281°21.5'	S 5°38.3'	66°36.6'	S 7°31.9'	5°15.5'	S 21°59.1'	274°31.5'	S 3°27.4'
11	296°21.9'	S 5°37.1'	81°38.9'	S 7°32.0'	20°17.7'	S 21°59.1'	289°32.2'	S 3°26.6'
12	311°22.2'	S 5°36.0'	96°41.2'	S 7°32.0'	35°19.9'	S 21°59.1'	304°33.0'	S 3°25.9'
13	326°22.5'	S 5°34.8'	111°43.5'	S 7°32.1'	50°22.1'	S 21°59.1'	319°33.7'	S 3°25.1'
14	341°22.8'	S 5°33.6'	126°45.9'	S 7°32.1'	65°24.2'	S 21°59.1'	334°34.5'	S 3°24.3'
15	356°23.1'	S 5°32.4'	141°48.2'	S 7°32.1'	80°26.4'	S 21°59.1'	349°35.2'	S 3°23.5'
16	11°23.4'	S 5°31.2'	156°50.5'	S 7°32.2'	95°28.6'	S 21°59.1'	4°36.0'	S 3°22.7'
17	26°23.8'	S 5°30.0'	171°52.8'	S 7°32.2'	110°30.8'	S 21°59.2'	19°36.7'	S 3°22.0'
18	41°24.1'	S 5°28.8'	186°55.2'	S 7°32.3'	125°33.0'	S 21°59.2'	34°37.5'	S 3°21.2'
19	56°24.4'	S 5°27.6'	201°57.5'	S 7°32.3'	140°35.2'	S 21°59.2'	49°38.2'	S 3°20.4'
20	71°24.7'	S 5°26.4'	216°59.8'	S 7°32.4'	155°37.4'	S 21°59.2'	64°39.0'	S 3°19.6'
21	86°25.0'	S 5°25.2'	232°02.2'	S 7°32.4'	170°39.5'	S 21°59.2'	79°39.7'	S 3°18.8'
22	101°25.4'	S 5°24.0'	247°04.5'	S 7°32.4'	185°41.7'	S 21°59.2'	94°40.5'	S 3°18.1'
23	116°25.7'	S 5°22.8'	262°06.8'	S 7°32.5'	200°43.9'	S 21°59.2'	109°41.3'	S 3°17.3'

Thu Jan 19, 2017 UTC

UTC	Venus -4.3 v = 0.3' d = 1.2'		Jupiter -1.9 v = 2.3' d = 0.0'		Saturn +0.5 v = 2.2' d = 0.0'		Mars +1.0 v = 0.8' d = 0.8'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	131°26.0'	S 5°21.6'	277°09.1'	S 7°32.5'	215°46.1'	S 21°59.2'	124°42.0'	S 3°16.5'
1	146°26.3'	S 5°20.4'	292°11.5'	S 7°32.6'	230°48.3'	S 21°59.3'	139°42.8'	S 3°15.7'
2	161°26.7'	S 5°19.3'	307°13.8'	S 7°32.6'	245°50.5'	S 21°59.3'	154°43.5'	S 3°14.9'
3	176°27.0'	S 5°18.1'	322°16.1'	S 7°32.7'	260°52.7'	S 21°59.3'	169°44.3'	S 3°14.2'
4	191°27.3'	S 5°16.9'	337°18.4'	S 7°32.7'	275°54.8'	S 21°59.3'	184°45.0'	S 3°13.4'
5	206°27.7'	S 5°15.7'	352°20.8'	S 7°32.7'	290°57.0'	S 21°59.3'	199°45.8'	S 3°12.6'
6	221°28.0'	S 5°14.5'	7°23.1'	S 7°32.8'	305°59.2'	S 21°59.3'	214°46.5'	S 3°11.8'
7	236°28.3'	S 5°13.3'	22°25.4'	S 7°32.8'	321°01.4'	S 21°59.3'	229°47.3'	S 3°11.0'
8	251°28.7'	S 5°12.1'	37°27.8'	S 7°32.9'	336°03.6'	S 21°59.3'	244°48.0'	S 3°10.3'
9	266°29.0'	S 5°10.9'	52°30.1'	S 7°32.9'	351°05.8'	S 21°59.4'	259°48.8'	S 3°09.5'
10	281°29.3'	S 5°09.7'	67°32.4'	S 7°33.0'	6°08.0'	S 21°59.4'	274°49.6'	S 3°08.7'
11	296°29.7'	S 5°08.5'	82°34.8'	S 7°33.0'	21°10.1'	S 21°59.4'	289°50.3'	S 3°07.9'
12	311°30.0'	S 5°07.3'	97°37.1'	S 7°33.0'	36°12.3'	S 21°59.4'	304°51.1'	S 3°07.2'
13	326°30.4'	S 5°06.1'	112°39.4'	S 7°33.1'	51°14.5'	S 21°59.4'	319°51.8'	S 3°06.4'
14	341°30.7'	S 5°04.9'	127°41.8'	S 7°33.1'	66°16.7'	S 21°59.4'	334°52.6'	S 3°05.6'
15	356°31.0'	S 5°03.7'	142°44.1'	S 7°33.2'	81°18.9'	S 21°59.4'	349°53.3'	S 3°04.8'
16	11°31.4'	S 5°02.5'	157°46.4'	S 7°33.2'	96°21.1'	S 21°59.4'	4°54.1'	S 3°04.0'
17	26°31.7'	S 5°01.4'	172°48.7'	S 7°33.2'	111°23.3'	S 21°59.5'	19°54.8'	S 3°03.3'
18	41°32.1'	S 5°00.2'	187°51.1'	S 7°33.3'	126°25.5'	S 21°59.5'	34°55.6'	S 3°02.5'
19	56°32.4'	S 4°59.0'	202°53.4'	S 7°33.3'	141°27.6'	S 21°59.5'	49°56.3'	S 3°01.7'
20	71°32.8'	S 4°57.8'	217°55.7'	S 7°33.4'	156°29.8'	S 21°59.5'	64°57.1'	S 3°00.9'
21	86°33.1'	S 4°56.6'	232°58.1'	S 7°33.4'	171°32.0'	S 21°59.5'	79°57.9'	S 3°00.1'
22	101°33.5'	S 4°55.4'	248°00.4'	S 7°33.4'	186°34.2'	S 21°59.5'	94°58.6'	S 2°59.4'
23	116°33.8'	S 4°54.2'	263°02.8'	S 7°33.5'	201°36.4'	S 21°59.5'	109°59.4'	S 2°58.6'

Fri Jan 20, 2017 UTC

UTC	Venus -4.3 v = 0.4' d = 1.2'		Jupiter -1.9 v = 2.3' d = 0.0'		Saturn +0.5 v = 2.2' d = 0.0'		Mars +1.0 v = 0.8' d = 0.8'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	131°34.2'	S 4°53.0'	278°05.1'	S 7°33.5'	216°38.6'	S 21°59.5'	125°00.1'	S 2°57.8'
1	146°34.5'	S 4°51.8'	293°07.4'	S 7°33.6'	231°40.8'	S 21°59.6'	140°00.9'	S 2°57.0'
2	161°34.9'	S 4°50.6'	308°09.8'	S 7°33.6'	246°43.0'	S 21°59.6'	155°01.6'	S 2°56.2'
3	176°35.2'	S 4°49.4'	323°12.1'	S 7°33.6'	261°45.2'	S 21°59.6'	170°02.4'	S 2°55.5'
4	191°35.6'	S 4°48.2'	338°14.4'	S 7°33.7'	276°47.3'	S 21°59.6'	185°03.1'	S 2°54.7'
5	206°35.9'	S 4°47.0'	353°16.8'	S 7°33.7'	291°49.5'	S 21°59.6'	200°03.9'	S 2°53.9'
6	221°36.3'	S 4°45.8'	8°19.1'	S 7°33.8'	306°51.7'	S 21°59.6'	215°04.7'	S 2°53.1'
7	236°36.7'	S 4°44.6'	23°21.4'	S 7°33.8'	321°53.9'	S 21°59.6'	230°05.4'	S 2°52.3'
8	251°37.0'	S 4°43.5'	38°23.8'	S 7°33.8'	336°56.1'	S 21°59.6'	245°06.2'	S 2°51.6'
9	266°37.4'	S 4°42.3'	53°26.1'	S 7°33.9'	351°58.3'	S 21°59.6'	260°06.9'	S 2°50.8'
10	281°37.7'	S 4°41.1'	68°28.4'	S 7°33.9'	7°00.5'	S 21°59.7'	275°07.7'	S 2°50.0'
11	296°38.1'	S 4°39.9'	83°30.8'	S 7°34.0'	22°02.7'	S 21°59.7'	290°08.4'	S 2°49.2'
12	311°38.5'	S 4°38.7'	98°33.1'	S 7°34.0'	37°04.8'	S 21°59.7'	305°09.2'	S 2°48.4'
13	326°38.8'	S 4°37.5'	113°35.5'	S 7°34.0'	52°07.0'	S 21°59.7'	320°10.0'	S 2°47.7'
14	341°39.2'	S 4°36.3'	128°37.8'	S 7°34.1'	67°09.2'	S 21°59.7'	335°10.7'	S 2°46.9'
15	356°39.6'	S 4°35.1'	143°40.1'	S 7°34.1'	82°11.4'	S 21°59.7'	350°11.5'	S 2°46.1'
16	11°39.9'	S 4°33.9'	158°42.5'	S 7°34.2'	97°13.6'	S 21°59.7'	5°12.2'	S 2°45.3'
17	26°40.3'	S 4°32.7'	173°44.8'	S 7°34.2'	112°15.8'	S 21°59.7'	20°13.0'	S 2°44.5'
18	41°40.7'	S 4°31.5'	188°47.2'	S 7°34.2'	127°18.0'	S 21°59.8'	35°13.7'	S 2°43.8'
19	56°41.0'	S 4°30.3'	203°49.5'	S 7°34.3'	142°20.2'	S 21°59.8'	50°14.5'	S 2°43.0'
20	71°41.4'	S 4°29.1'	218°51.8'	S 7°34.3'	157°22.4'	S 21°59.8'	65°15.2'	S 2°42.2'
21	86°41.8'	S 4°27.9'	233°54.2'	S 7°34.3'	172°24.6'	S 21°59.8'	80°16.0'	S 2°41.4'
22	101°42.2'	S 4°26.8'	248°56.5'	S 7°34.4'	187°26.7'	S 21°59.8'	95°16.8'	S 2°40.6'
23	116°42.6'	S 4°25.6'	263°58.9'	S 7°34.4'	202°28.9'	S 21°59.8'	110°17.5'	S 2°39.9'

Sat Jan 21, 2017 UTC

UTC	Venus -4.3 v = 0.4' d = 1.2'		Jupiter -1.9 v = 2.3' d = 0.0'		Saturn +0.5 v = 2.2' d = 0.0'		Mars +1.1 v = 0.8' d = 0.8'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	131°42.9'	S 4°24.4'	279°01.2'	S 7°34.5'	217°31.1'	S 21°59.8'	125°18.3'	S 2°39.1'
1	146°43.3'	S 4°23.2'	294°03.5'	S 7°34.5'	232°33.3'	S 21°59.8'	140°19.0'	S 2°38.3'
2	161°43.7'	S 4°22.0'	309°05.9'	S 7°34.5'	247°35.5'	S 21°59.9'	155°19.8'	S 2°37.5'
3	176°44.1'	S 4°20.8'	324°08.2'	S 7°34.6'	262°37.7'	S 21°59.9'	170°20.5'	S 2°36.7'
4	191°44.5'	S 4°19.6'	339°10.6'	S 7°34.6'	277°39.9'	S 21°59.9'	185°21.3'	S 2°36.0'
5	206°44.8'	S 4°18.4'	354°12.9'	S 7°34.6'	292°42.1'	S 21°59.9'	200°22.1'	S 2°35.2'
6	221°45.2'	S 4°17.2'	9°15.3'	S 7°34.7'	307°44.3'	S 21°59.9'	215°22.8'	S 2°34.4'
7	236°45.6'	S 4°16.0'	24°17.6'	S 7°34.7'	322°46.5'	S 21°59.9'	230°23.6'	S 2°33.6'
8	251°46.0'	S 4°14.8'	39°19.9'	S 7°34.8'	337°48.6'	S 21°59.9'	245°24.3'	S 2°32.8'
9	266°46.4'	S 4°13.6'	54°22.3'	S 7°34.8'	352°50.8'	S 21°59.9'	260°25.1'	S 2°32.1'
10	281°46.8'	S 4°12.4'	69°24.6'	S 7°34.8'	7°53.0'	S 21°59.9'	275°25.9'	S 2°31.3'
11	296°47.2'	S 4°11.3'	84°27.0'	S 7°34.9'	22°55.2'	S 21°60.0'	290°26.6'	S 2°30.5'
12	311°47.5'	S 4°10.1'	99°29.3'	S 7°34.9'	37°57.4'	S 21°60.0'	305°27.4'	S 2°29.7'
13	326°47.9'	S 4°08.9'	114°31.7'	S 7°34.9'	52°59.6'	S 21°60.0'	320°28.1'	S 2°28.9'
14	341°48.3'	S 4°07.7'	129°34.0'	S 7°35.0'	68°01.8'	S 21°60.0'	335°28.9'	S 2°28.2'
15	356°48.7'	S 4°06.5'	144°36.4'	S 7°35.0'	83°04.0'	S 22°00.0'	350°29.6'	S 2°27.4'
16	11°49.1'	S 4°05.3'	159°38.7'	S 7°35.0'	98°06.2'	S 22°00.0'	5°30.4'	S 2°26.6'
17	26°49.5'	S 4°04.1'	174°41.1'	S 7°35.1'	113°08.4'	S 22°00.0'	20°31.2'	S 2°25.8'
18	41°49.9'	S 4°02.9'	189°43.4'	S 7°35.1'	128°10.6'	S 22°00.0'	35°31.9'	S 2°25.0'
19	56°50.3'	S 4°01.7'	204°45.7'	S 7°35.1'	143°12.8'	S 22°00.0'	50°32.7'	S 2°24.3'
20	71°50.7'	S 4°00.5'	219°48.1'	S 7°35.2'	158°14.9'	S 22°00.1'	65°33.4'	S 2°23.5'
21	86°51.1'	S 3°59.3'	234°50.4'	S 7°35.2'	173°17.1'	S 22°00.1'	80°34.2'	S 2°22.7'
22	101°51.5'	S 3°58.1'	249°52.8'	S 7°35.2'	188°19.3'	S 22°00.1'	95°34.9'	S 2°21.9'
23	116°51.9'	S 3°56.9'	264°55.1'	S 7°35.3'	203°21.5'	S 22°00.1'	110°35.7'	S 2°21.1'

Sun Jan 22, 2017 UTC

UTC	Venus -4.3 v = 0.4' d = 1.2'		Jupiter -1.9 v = 2.4' d = 0.0'		Saturn +0.5 v = 2.2' d = 0.0'		Mars +1.1 v = 0.8' d = 0.8'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	131°52.3'	S 3°55.8'	279°57.5'	S 7°35.3'	218°23.7'	S 22°00.1'	125°36.5'	S 2°20.4'
1	146°52.7'	S 3°54.6'	294°59.8'	S 7°35.4'	233°25.9'	S 22°00.1'	140°37.2'	S 2°19.6'
2	161°53.1'	S 3°53.4'	310°02.2'	S 7°35.4'	248°28.1'	S 22°00.1'	155°38.0'	S 2°18.8'
3	176°53.5'	S 3°52.2'	325°04.5'	S 7°35.4'	263°30.3'	S 22°00.1'	170°38.7'	S 2°18.0'
4	191°54.0'	S 3°51.0'	340°06.9'	S 7°35.5'	278°32.5'	S 22°00.2'	185°39.5'	S 2°17.2'
5	206°54.4'	S 3°49.8'	355°09.2'	S 7°35.5'	293°34.7'	S 22°00.2'	200°40.3'	S 2°16.5'
6	221°54.8'	S 3°48.6'	10°11.6'	S 7°35.5'	308°36.9'	S 22°00.2'	215°41.0'	S 2°15.7'
7	236°55.2'	S 3°47.4'	25°13.9'	S 7°35.6'	323°39.1'	S 22°00.2'	230°41.8'	S 2°14.9'
8	251°55.6'	S 3°46.2'	40°16.3'	S 7°35.6'	338°41.3'	S 22°00.2'	245°42.5'	S 2°14.1'
9	266°56.0'	S 3°45.0'	55°18.6'	S 7°35.6'	353°43.4'	S 22°00.2'	260°43.3'	S 2°13.3'
10	281°56.4'	S 3°43.8'	70°21.0'	S 7°35.7'	8°45.6'	S 22°00.2'	275°44.1'	S 2°12.6'
11	296°56.8'	S 3°42.7'	85°23.3'	S 7°35.7'	23°47.8'	S 22°00.2'	290°44.8'	S 2°11.8'
12	311°57.3'	S 3°41.5'	100°25.7'	S 7°35.7'	38°50.0'	S 22°00.2'	305°45.6'	S 2°11.0'
13	326°57.7'	S 3°40.3'	115°28.0'	S 7°35.8'	53°52.2'	S 22°00.3'	320°46.3'	S 2°10.2'
14	341°58.1'	S 3°39.1'	130°30.4'	S 7°35.8'	68°54.4'	S 22°00.3'	335°47.1'	S 2°09.4'
15	356°58.5'	S 3°37.9'	145°32.7'	S 7°35.8'	83°56.6'	S 22°00.3'	350°47.9'	S 2°08.7'
16	11°58.9'	S 3°36.7'	160°35.1'	S 7°35.9'	98°58.8'	S 22°00.3'	5°48.6'	S 2°07.9'
17	26°59.4'	S 3°35.5'	175°37.5'	S 7°35.9'	114°01.0'	S 22°00.3'	20°49.4'	S 2°07.1'
18	41°59.8'	S 3°34.3'	190°39.8'	S 7°35.9'	129°03.2'	S 22°00.3'	35°50.1'	S 2°06.3'
19	57°00.2'	S 3°33.1'	205°42.2'	S 7°36.0'	144°05.4'	S 22°00.3'	50°50.9'	S 2°05.5'
20	72°00.6'	S 3°31.9'	220°44.5'	S 7°36.0'	159°07.6'	S 22°00.3'	65°51.6'	S 2°04.8'
21	87°01.1'	S 3°30.7'	235°46.9'	S 7°36.0'	174°09.8'	S 22°00.3'	80°52.4'	S 2°04.0'
22	102°01.5'	S 3°29.6'	250°49.2'	S 7°36.0'	189°12.0'	S 22°00.4'	95°53.2'	S 2°03.2'
23	117°01.9'	S 3°28.4'	265°51.6'	S 7°36.1'	204°14.2'	S 22°00.4'	110°53.9'	S 2°02.4'

Mon Jan 23, 2017 UTC

UTC	Venus -4.3 v = 0.4' d = 1.2'		Jupiter -1.9 v = 2.4' d = 0.0'		Saturn +0.5 v = 2.2' d = 0.0'		Mars +1.1 v = 0.8' d = 0.8'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	132°02.4'	S 3°27.2'	280°53.9'	S 7°36.1'	219°16.4'	S 22°00.4'	125°54.7'	S 2°01.6'
1	147°02.8'	S 3°26.0'	295°56.3'	S 7°36.1'	234°18.5'	S 22°00.4'	140°55.4'	S 2°00.9'
2	162°03.2'	S 3°24.8'	310°58.6'	S 7°36.2'	249°20.7'	S 22°00.4'	155°56.2'	S 2°00.1'
3	177°03.7'	S 3°23.6'	326°01.0'	S 7°36.2'	264°22.9'	S 22°00.4'	170°57.0'	S 1°59.3'
4	192°04.1'	S 3°22.4'	341°03.4'	S 7°36.2'	279°25.1'	S 22°00.4'	185°57.7'	S 1°58.5'
5	207°04.5'	S 3°21.2'	356°05.7'	S 7°36.3'	294°27.3'	S 22°00.4'	200°58.5'	S 1°57.7'
6	222°05.0'	S 3°20.0'	11°08.1'	S 7°36.3'	309°29.5'	S 22°00.4'	215°59.2'	S 1°57.0'
7	237°05.4'	S 3°18.8'	26°10.4'	S 7°36.3'	324°31.7'	S 22°00.5'	231°00.0'	S 1°56.2'
8	252°05.9'	S 3°17.7'	41°12.8'	S 7°36.4'	339°33.9'	S 22°00.5'	246°00.8'	S 1°55.4'
9	267°06.3'	S 3°16.5'	56°15.1'	S 7°36.4'	354°36.1'	S 22°00.5'	261°01.5'	S 1°54.6'
10	282°06.7'	S 3°15.3'	71°17.5'	S 7°36.4'	9°38.3'	S 22°00.5'	276°02.3'	S 1°53.8'
11	297°07.2'	S 3°14.1'	86°19.9'	S 7°36.5'	24°40.5'	S 22°00.5'	291°03.1'	S 1°53.1'
12	312°07.6'	S 3°12.9'	101°22.2'	S 7°36.5'	39°42.7'	S 22°00.5'	306°03.8'	S 1°52.3'
13	327°08.1'	S 3°11.7'	116°24.6'	S 7°36.5'	54°44.9'	S 22°00.5'	321°04.6'	S 1°51.5'
14	342°08.5'	S 3°10.5'	131°26.9'	S 7°36.5'	69°47.1'	S 22°00.5'	336°05.3'	S 1°50.7'
15	357°09.0'	S 3°09.3'	146°29.3'	S 7°36.6'	84°49.3'	S 22°00.5'	351°06.1'	S 1°49.9'
16	12°09.4'	S 3°08.1'	161°31.7'	S 7°36.6'	99°51.5'	S 22°00.5'	6°06.9'	S 1°49.2'
17	27°09.9'	S 3°07.0'	176°34.0'	S 7°36.6'	114°53.7'	S 22°00.6'	21°07.6'	S 1°48.4'
18	42°10.3'	S 3°05.8'	191°36.4'	S 7°36.7'	129°55.9'	S 22°00.6'	36°08.4'	S 1°47.6'
19	57°10.8'	S 3°04.6'	206°38.7'	S 7°36.7'	144°58.1'	S 22°00.6'	51°09.1'	S 1°46.8'
20	72°11.2'	S 3°03.4'	221°41.1'	S 7°36.7'	160°00.3'	S 22°00.6'	66°09.9'	S 1°46.0'
21	87°11.7'	S 3°02.2'	236°43.5'	S 7°36.8'	175°02.5'	S 22°00.6'	81°10.7'	S 1°45.3'
22	102°12.1'	S 3°01.0'	251°45.8'	S 7°36.8'	190°04.7'	S 22°00.6'	96°11.4'	S 1°44.5'
23	117°12.6'	S 2°59.8'	266°48.2'	S 7°36.8'	205°06.8'	S 22°00.6'	111°12.2'	S 1°43.7'

Tue Jan 24, 2017 UTC

UTC	Venus -4.3 v = 0.5' d = 1.2'		Jupiter -1.9 v = 2.4' d = 0.0'		Saturn +0.5 v = 2.2' d = 0.0'		Mars +1.1 v = 0.8' d = 0.8'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	132°13.1'	S 2°58.6'	281°50.6'	S 7°36.8'	220°09.0'	S 22°00.6'	126°12.9'	S 1°42.9'
1	147°13.5'	S 2°57.5'	296°52.9'	S 7°36.9'	235°11.2'	S 22°00.6'	141°13.7'	S 1°42.1'
2	162°14.0'	S 2°56.3'	311°55.3'	S 7°36.9'	250°13.4'	S 22°00.7'	156°14.5'	S 1°41.4'
3	177°14.4'	S 2°55.1'	326°57.6'	S 7°36.9'	265°15.6'	S 22°00.7'	171°15.2'	S 1°40.6'
4	192°14.9'	S 2°53.9'	342°00.0'	S 7°37.0'	280°17.8'	S 22°00.7'	186°16.0'	S 1°39.8'
5	207°15.4'	S 2°52.7'	357°02.4'	S 7°37.0'	295°20.0'	S 22°00.7'	201°16.7'	S 1°39.0'
6	222°15.8'	S 2°51.5'	12°04.7'	S 7°37.0'	310°22.2'	S 22°00.7'	216°17.5'	S 1°38.2'
7	237°16.3'	S 2°50.3'	27°07.1'	S 7°37.0'	325°24.4'	S 22°00.7'	231°18.3'	S 1°37.5'
8	252°16.8'	S 2°49.1'	42°09.5'	S 7°37.1'	340°26.6'	S 22°00.7'	246°19.0'	S 1°36.7'
9	267°17.2'	S 2°48.0'	57°11.8'	S 7°37.1'	355°28.8'	S 22°00.7'	261°19.8'	S 1°35.9'
10	282°17.7'	S 2°46.8'	72°14.2'	S 7°37.1'	10°31.0'	S 22°00.7'	276°20.6'	S 1°35.1'
11	297°18.2'	S 2°45.6'	87°16.6'	S 7°37.1'	25°33.2'	S 22°00.8'	291°21.3'	S 1°34.3'
12	312°18.7'	S 2°44.4'	102°18.9'	S 7°37.2'	40°35.4'	S 22°00.8'	306°22.1'	S 1°33.6'
13	327°19.1'	S 2°43.2'	117°21.3'	S 7°37.2'	55°37.6'	S 22°00.8'	321°22.8'	S 1°32.8'
14	342°19.6'	S 2°42.0'	132°23.7'	S 7°37.2'	70°39.8'	S 22°00.8'	336°23.6'	S 1°32.0'
15	357°20.1'	S 2°40.8'	147°26.0'	S 7°37.3'	85°42.0'	S 22°00.8'	351°24.4'	S 1°31.2'
16	12°20.6'	S 2°39.7'	162°28.4'	S 7°37.3'	100°44.2'	S 22°00.8'	6°25.1'	S 1°30.4'
17	27°21.0'	S 2°38.5'	177°30.8'	S 7°37.3'	115°46.4'	S 22°00.8'	21°25.9'	S 1°29.7'
18	42°21.5'	S 2°37.3'	192°33.1'	S 7°37.3'	130°48.6'	S 22°00.8'	36°26.7'	S 1°28.9'
19	57°22.0'	S 2°36.1'	207°35.5'	S 7°37.4'	145°50.8'	S 22°00.8'	51°27.4'	S 1°28.1'
20	72°22.5'	S 2°34.9'	222°37.9'	S 7°37.4'	160°53.0'	S 22°00.8'	66°28.2'	S 1°27.3'
21	87°23.0'	S 2°33.7'	237°40.2'	S 7°37.4'	175°55.2'	S 22°00.9'	81°28.9'	S 1°26.5'
22	102°23.4'	S 2°32.5'	252°42.6'	S 7°37.4'	190°57.4'	S 22°00.9'	96°29.7'	S 1°25.8'
23	117°23.9'	S 2°31.4'	267°45.0'	S 7°37.5'	205°59.6'	S 22°00.9'	111°30.5'	S 1°25.0'

Wed Jan 25, 2017 UTC

UTC	Venus -4.3 v = 0.5' d = 1.2'		Jupiter -1.9 v = 2.4' d = 0.0'		Saturn +0.5 v = 2.2' d = 0.0'		Mars +1.1 v = 0.8' d = 0.8'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	132°24.4'	S 2°30.2'	282°47.4'	S 7°37.5'	221°01.8'	S 22°00.9'	126°31.2'	S 1°24.2'
1	147°24.9'	S 2°29.0'	297°49.7'	S 7°37.5'	236°04.0'	S 22°00.9'	141°32.0'	S 1°23.4'
2	162°25.4'	S 2°27.8'	312°52.1'	S 7°37.5'	251°06.2'	S 22°00.9'	156°32.8'	S 1°22.6'
3	177°25.9'	S 2°26.6'	327°54.5'	S 7°37.6'	266°08.4'	S 22°00.9'	171°33.5'	S 1°21.9'
4	192°26.4'	S 2°25.4'	342°56.8'	S 7°37.6'	281°10.6'	S 22°00.9'	186°34.3'	S 1°21.1'
5	207°26.9'	S 2°24.3'	357°59.2'	S 7°37.6'	296°12.8'	S 22°00.9'	201°35.0'	S 1°20.3'
6	222°27.4'	S 2°23.1'	13°01.6'	S 7°37.6'	311°15.0'	S 22°01.0'	216°35.8'	S 1°19.5'
7	237°27.9'	S 2°21.9'	28°04.0'	S 7°37.7'	326°17.2'	S 22°01.0'	231°36.6'	S 1°18.8'
8	252°28.4'	S 2°20.7'	43°06.3'	S 7°37.7'	341°19.4'	S 22°01.0'	246°37.3'	S 1°18.0'
9	267°28.9'	S 2°19.5'	58°08.7'	S 7°37.7'	356°21.6'	S 22°01.0'	261°38.1'	S 1°17.2'
10	282°29.4'	S 2°18.3'	73°11.1'	S 7°37.7'	11°23.8'	S 22°01.0'	276°38.9'	S 1°16.4'
11	297°29.9'	S 2°17.1'	88°13.4'	S 7°37.8'	26°26.0'	S 22°01.0'	291°39.6'	S 1°15.6'
12	312°30.4'	S 2°16.0'	103°15.8'	S 7°37.8'	41°28.2'	S 22°01.0'	306°40.4'	S 1°14.9'
13	327°30.9'	S 2°14.8'	118°18.2'	S 7°37.8'	56°30.4'	S 22°01.0'	321°41.1'	S 1°14.1'
14	342°31.4'	S 2°13.6'	133°20.6'	S 7°37.8'	71°32.6'	S 22°01.0'	336°41.9'	S 1°13.3'
15	357°31.9'	S 2°12.4'	148°22.9'	S 7°37.9'	86°34.8'	S 22°01.0'	351°42.7'	S 1°12.5'
16	12°32.4'	S 2°11.2'	163°25.3'	S 7°37.9'	101°37.0'	S 22°01.1'	6°43.4'	S 1°11.7'
17	27°32.9'	S 2°10.1'	178°27.7'	S 7°37.9'	116°39.2'	S 22°01.1'	21°44.2'	S 1°11.0'
18	42°33.4'	S 2°08.9'	193°30.1'	S 7°37.9'	131°41.4'	S 22°01.1'	36°45.0'	S 1°10.2'
19	57°33.9'	S 2°07.7'	208°32.4'	S 7°38.0'	146°43.6'	S 22°01.1'	51°45.7'	S 1°09.4'
20	72°34.4'	S 2°06.5'	223°34.8'	S 7°38.0'	161°45.8'	S 22°01.1'	66°46.5'	S 1°08.6'
21	87°34.9'	S 2°05.3'	238°37.2'	S 7°38.0'	176°48.0'	S 22°01.1'	81°47.2'	S 1°07.8'
22	102°35.4'	S 2°04.1'	253°39.6'	S 7°38.0'	191°50.2'	S 22°01.1'	96°48.0'	S 1°07.1'
23	117°36.0'	S 2°03.0'	268°41.9'	S 7°38.1'	206°52.4'	S 22°01.1'	111°48.8'	S 1°06.3'

Thu Jan 26, 2017 UTC

UTC	Venus -4.4 v = 0.5' d = 1.2'		Jupiter -2.0 v = 2.4' d = 0.0'		Saturn +0.6 v = 2.2' d = 0.0'		Mars +1.1 v = 0.8' d = 0.8'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	132°36.5'	S 2°01.8'	283°44.3'	S 7°38.1'	221°54.6'	S 22°01.1'	126°49.5'	S 1°05.5'
1	147°37.0'	S 2°00.6'	298°46.7'	S 7°38.1'	236°56.8'	S 22°01.1'	141°50.3'	S 1°04.7'
2	162°37.5'	S 1°59.4'	313°49.1'	S 7°38.1'	251°59.0'	S 22°01.2'	156°51.1'	S 1°03.9'
3	177°38.0'	S 1°58.2'	328°51.5'	S 7°38.2'	267°01.2'	S 22°01.2'	171°51.8'	S 1°03.2'
4	192°38.5'	S 1°57.1'	343°53.8'	S 7°38.2'	282°03.4'	S 22°01.2'	186°52.6'	S 1°02.4'
5	207°39.1'	S 1°55.9'	358°56.2'	S 7°38.2'	297°05.6'	S 22°01.2'	201°53.4'	S 1°01.6'
6	222°39.6'	S 1°54.7'	13°58.6'	S 7°38.2'	312°07.8'	S 22°01.2'	216°54.1'	S 1°00.8'
7	237°40.1'	S 1°53.5'	29°01.0'	S 7°38.2'	327°10.0'	S 22°01.2'	231°54.9'	S 1°00.0'
8	252°40.6'	S 1°52.3'	44°03.3'	S 7°38.3'	342°12.2'	S 22°01.2'	246°55.7'	S 0°59.3'
9	267°41.2'	S 1°51.2'	59°05.7'	S 7°38.3'	357°14.4'	S 22°01.2'	261°56.4'	S 0°58.5'
10	282°41.7'	S 1°50.0'	74°08.1'	S 7°38.3'	12°16.6'	S 22°01.2'	276°57.2'	S 0°57.7'
11	297°42.2'	S 1°48.8'	89°10.5'	S 7°38.3'	27°18.8'	S 22°01.2'	291°57.9'	S 0°56.9'
12	312°42.8'	S 1°47.6'	104°12.9'	S 7°38.4'	42°21.0'	S 22°01.3'	306°58.7'	S 0°56.1'
13	327°43.3'	S 1°46.4'	119°15.2'	S 7°38.4'	57°23.2'	S 22°01.3'	321°59.5'	S 0°55.4'
14	342°43.8'	S 1°45.3'	134°17.6'	S 7°38.4'	72°25.4'	S 22°01.3'	337°00.2'	S 0°54.6'
15	357°44.3'	S 1°44.1'	149°20.0'	S 7°38.4'	87°27.6'	S 22°01.3'	352°01.0'	S 0°53.8'
16	12°44.9'	S 1°42.9'	164°22.4'	S 7°38.4'	102°29.8'	S 22°01.3'	7°01.8'	S 0°53.0'
17	27°45.4'	S 1°41.7'	179°24.8'	S 7°38.5'	117°32.0'	S 22°01.3'	22°02.5'	S 0°52.2'
18	42°46.0'	S 1°40.5'	194°27.2'	S 7°38.5'	132°34.2'	S 22°01.3'	37°03.3'	S 0°51.5'
19	57°46.5'	S 1°39.4'	209°29.5'	S 7°38.5'	147°36.4'	S 22°01.3'	52°04.1'	S 0°50.7'
20	72°47.0'	S 1°38.2'	224°31.9'	S 7°38.5'	162°38.6'	S 22°01.3'	67°04.8'	S 0°49.9'
21	87°47.6'	S 1°37.0'	239°34.3'	S 7°38.5'	177°40.8'	S 22°01.3'	82°05.6'	S 0°49.1'
22	102°48.1'	S 1°35.8'	254°36.7'	S 7°38.6'	192°43.0'	S 22°01.4'	97°06.3'	S 0°48.4'
23	117°48.7'	S 1°34.7'	269°39.1'	S 7°38.6'	207°45.2'	S 22°01.4'	112°07.1'	S 0°47.6'

Fri Jan 27, 2017 UTC

UTC	Venus -4.4		Jupiter -2.0		Saturn +0.6		Mars +1.1	
	v = 0.6' d = 1.2'		v = 2.4' d = 0.0'		v = 2.2' d = 0.0'		v = 0.8' d = 0.8'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	132°49.2'	S 1°33.5'	284°41.5'	S 7°38.6'	222°47.5'	S 22°01.4'	127°07.9'	S 0°46.8'
1	147°49.8'	S 1°32.3'	299°43.8'	S 7°38.6'	237°49.7'	S 22°01.4'	142°08.6'	S 0°46.0'
2	162°50.3'	S 1°31.1'	314°46.2'	S 7°38.6'	252°51.9'	S 22°01.4'	157°09.4'	S 0°45.2'
3	177°50.9'	S 1°30.0'	329°48.6'	S 7°38.7'	267°54.1'	S 22°01.4'	172°10.2'	S 0°44.5'
4	192°51.4'	S 1°28.8'	344°51.0'	S 7°38.7'	282°56.3'	S 22°01.4'	187°10.9'	S 0°43.7'
5	207°52.0'	S 1°27.6'	359°53.4'	S 7°38.7'	297°58.5'	S 22°01.4'	202°11.7'	S 0°42.9'
6	222°52.5'	S 1°26.4'	14°55.8'	S 7°38.7'	313°00.7'	S 22°01.4'	217°12.5'	S 0°42.1'
7	237°53.1'	S 1°25.3'	29°58.2'	S 7°38.7'	328°02.9'	S 22°01.4'	232°13.2'	S 0°41.3'
8	252°53.6'	S 1°24.1'	45°00.5'	S 7°38.8'	343°05.1'	S 22°01.5'	247°14.0'	S 0°40.6'
9	267°54.2'	S 1°22.9'	60°02.9'	S 7°38.8'	358°07.3'	S 22°01.5'	262°14.8'	S 0°39.8'
10	282°54.7'	S 1°21.7'	75°05.3'	S 7°38.8'	13°09.5'	S 22°01.5'	277°15.5'	S 0°39.0'
11	297°55.3'	S 1°20.6'	90°07.7'	S 7°38.8'	28°11.7'	S 22°01.5'	292°16.3'	S 0°38.2'
12	312°55.8'	S 1°19.4'	105°10.1'	S 7°38.8'	43°13.9'	S 22°01.5'	307°17.1'	S 0°37.4'
13	327°56.4'	S 1°18.2'	120°12.5'	S 7°38.9'	58°16.1'	S 22°01.5'	322°17.8'	S 0°36.7'
14	342°57.0'	S 1°17.0'	135°14.9'	S 7°38.9'	73°18.3'	S 22°01.5'	337°18.6'	S 0°35.9'
15	357°57.5'	S 1°15.9'	150°17.3'	S 7°38.9'	88°20.5'	S 22°01.5'	352°19.4'	S 0°35.1'
16	12°58.1'	S 1°14.7'	165°19.7'	S 7°38.9'	103°22.7'	S 22°01.5'	7°20.1'	S 0°34.3'
17	27°58.7'	S 1°13.5'	180°22.0'	S 7°38.9'	118°24.9'	S 22°01.5'	22°20.9'	S 0°33.6'
18	42°59.2'	S 1°12.3'	195°24.4'	S 7°38.9'	133°27.1'	S 22°01.5'	37°21.6'	S 0°32.8'
19	57°59.8'	S 1°11.2'	210°26.8'	S 7°39.0'	148°29.3'	S 22°01.6'	52°22.4'	S 0°32.0'
20	73°00.4'	S 1°10.0'	225°29.2'	S 7°39.0'	163°31.5'	S 22°01.6'	67°23.2'	S 0°31.2'
21	88°00.9'	S 1°08.8'	240°31.6'	S 7°39.0'	178°33.8'	S 22°01.6'	82°23.9'	S 0°30.4'
22	103°01.5'	S 1°07.6'	255°34.0'	S 7°39.0'	193°36.0'	S 22°01.6'	97°24.7'	S 0°29.7'
23	118°02.1'	S 1°06.5'	270°36.4'	S 7°39.0'	208°38.2'	S 22°01.6'	112°25.5'	S 0°28.9'

Sat Jan 28, 2017 UTC

UTC	Venus -4.4		Jupiter -2.0		Saturn +0.6		Mars +1.1	
	v = 0.6' d = 1.2'		v = 2.4' d = 0.0'		v = 2.2' d = 0.0'		v = 0.8' d = 0.8'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	133°02.7'	S 1°05.3'	285°38.8'	S 7°39.1'	223°40.4'	S 22°01.6'	127°26.2'	S 0°28.1'
1	148°03.2'	S 1°04.1'	300°41.2'	S 7°39.1'	238°42.6'	S 22°01.6'	142°27.0'	S 0°27.3'
2	163°03.8'	S 1°03.0'	315°43.6'	S 7°39.1'	253°44.8'	S 22°01.6'	157°27.8'	S 0°26.5'
3	178°04.4'	S 1°01.8'	330°46.0'	S 7°39.1'	268°47.0'	S 22°01.6'	172°28.5'	S 0°25.8'
4	193°05.0'	S 1°00.6'	345°48.3'	S 7°39.1'	283°49.2'	S 22°01.6'	187°29.3'	S 0°25.0'
5	208°05.6'	S 0°59.4'	0°50.7'	S 7°39.1'	298°51.4'	S 22°01.7'	202°30.1'	S 0°24.2'
6	223°06.1'	S 0°58.3'	15°53.1'	S 7°39.2'	313°53.6'	S 22°01.7'	217°30.8'	S 0°23.4'
7	238°06.7'	S 0°57.1'	30°55.5'	S 7°39.2'	328°55.8'	S 22°01.7'	232°31.6'	S 0°22.7'
8	253°07.3'	S 0°55.9'	45°57.9'	S 7°39.2'	343°58.0'	S 22°01.7'	247°32.4'	S 0°21.9'
9	268°07.9'	S 0°54.8'	61°00.3'	S 7°39.2'	359°00.2'	S 22°01.7'	262°33.1'	S 0°21.1'
10	283°08.5'	S 0°53.6'	76°02.7'	S 7°39.2'	14°02.4'	S 22°01.7'	277°33.9'	S 0°20.3'
11	298°09.1'	S 0°52.4'	91°05.1'	S 7°39.2'	29°04.6'	S 22°01.7'	292°34.7'	S 0°19.5'
12	313°09.7'	S 0°51.2'	106°07.5'	S 7°39.3'	44°06.9'	S 22°01.7'	307°35.4'	S 0°18.8'
13	328°10.3'	S 0°50.1'	121°09.9'	S 7°39.3'	59°09.1'	S 22°01.7'	322°36.2'	S 0°18.0'
14	343°10.9'	S 0°48.9'	136°12.3'	S 7°39.3'	74°11.3'	S 22°01.7'	337°37.0'	S 0°17.2'
15	358°11.5'	S 0°47.7'	151°14.7'	S 7°39.3'	89°13.5'	S 22°01.7'	352°37.7'	S 0°16.4'
16	13°12.1'	S 0°46.6'	166°17.1'	S 7°39.3'	104°15.7'	S 22°01.8'	7°38.5'	S 0°15.6'
17	28°12.6'	S 0°45.4'	181°19.5'	S 7°39.3'	119°17.9'	S 22°01.8'	22°39.3'	S 0°14.9'
18	43°13.2'	S 0°44.2'	196°21.9'	S 7°39.3'	134°20.1'	S 22°01.8'	37°40.0'	S 0°14.1'
19	58°13.8'	S 0°43.1'	211°24.3'	S 7°39.4'	149°22.3'	S 22°01.8'	52°40.8'	S 0°13.3'
20	73°14.4'	S 0°41.9'	226°26.7'	S 7°39.4'	164°24.5'	S 22°01.8'	67°41.6'	S 0°12.5'
21	88°15.0'	S 0°40.7'	241°29.1'	S 7°39.4'	179°26.7'	S 22°01.8'	82°42.3'	S 0°11.8'
22	103°15.7'	S 0°39.6'	256°31.5'	S 7°39.4'	194°28.9'	S 22°01.8'	97°43.1'	S 0°11.0'
23	118°16.3'	S 0°38.4'	271°33.9'	S 7°39.4'	209°31.1'	S 22°01.8'	112°43.9'	S 0°10.2'

Sun Jan 29, 2017 UTC

UTC	Venus -4.4 v = 0.6' d = 1.2'		Jupiter -2.0 v = 2.4' d = 0.0'		Saturn +0.6 v = 2.2' d = 0.0'		Mars +1.1 v = 0.8' d = 0.8'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	133°16.9'	S 0°37.2'	286°36.3'	S 7°39.4'	224°33.3'	S 22°01.8'	127°44.6'	S 0°09.4'
1	148°17.5'	S 0°36.1'	301°38.7'	S 7°39.4'	239°35.6'	S 22°01.8'	142°45.4'	S 0°08.6'
2	163°18.1'	S 0°34.9'	316°41.1'	S 7°39.5'	254°37.8'	S 22°01.8'	157°46.2'	S 0°07.9'
3	178°18.7'	S 0°33.7'	331°43.5'	S 7°39.5'	269°40.0'	S 22°01.9'	172°46.9'	S 0°07.1'
4	193°19.3'	S 0°32.6'	346°45.9'	S 7°39.5'	284°42.2'	S 22°01.9'	187°47.7'	S 0°06.3'
5	208°19.9'	S 0°31.4'	1°48.3'	S 7°39.5'	299°44.4'	S 22°01.9'	202°48.5'	S 0°05.5'
6	223°20.5'	S 0°30.2'	16°50.7'	S 7°39.5'	314°46.6'	S 22°01.9'	217°49.2'	S 0°04.8'
7	238°21.1'	S 0°29.1'	31°53.1'	S 7°39.5'	329°48.8'	S 22°01.9'	232°50.0'	S 0°04.0'
8	253°21.8'	S 0°27.9'	46°55.5'	S 7°39.5'	344°51.0'	S 22°01.9'	247°50.8'	S 0°03.2'
9	268°22.4'	S 0°26.7'	61°57.9'	S 7°39.6'	359°53.2'	S 22°01.9'	262°51.5'	S 0°02.4'
10	283°23.0'	S 0°25.6'	77°00.3'	S 7°39.6'	14°55.4'	S 22°01.9'	277°52.3'	S 0°01.6'
11	298°23.6'	S 0°24.4'	92°02.7'	S 7°39.6'	29°57.7'	S 22°01.9'	292°53.1'	S 0°00.9'
12	313°24.2'	S 0°23.3'	107°05.1'	S 7°39.6'	44°59.9'	S 22°01.9'	307°53.8'	S 0°00.1'
13	328°24.9'	S 0°22.1'	122°07.5'	S 7°39.6'	60°02.1'	S 22°01.9'	322°54.6'	N 0°00.7'
14	343°25.5'	S 0°20.9'	137°09.9'	S 7°39.6'	75°04.3'	S 22°02.0'	337°55.4'	N 0°01.5'
15	358°26.1'	S 0°19.8'	152°12.3'	S 7°39.6'	90°06.5'	S 22°02.0'	352°56.1'	N 0°02.2'
16	13°26.7'	S 0°18.6'	167°14.7'	S 7°39.6'	105°08.7'	S 22°02.0'	7°56.9'	N 0°03.0'
17	28°27.4'	S 0°17.4'	182°17.1'	S 7°39.7'	120°10.9'	S 22°02.0'	22°57.7'	N 0°03.8'
18	43°28.0'	S 0°16.3'	197°19.5'	S 7°39.7'	135°13.1'	S 22°02.0'	37°58.4'	N 0°04.6'
19	58°28.6'	S 0°15.1'	212°21.9'	S 7°39.7'	150°15.3'	S 22°02.0'	52°59.2'	N 0°05.4'
20	73°29.3'	S 0°14.0'	227°24.3'	S 7°39.7'	165°17.5'	S 22°02.0'	67°60.0'	N 0°06.1'
21	88°29.9'	S 0°12.8'	242°26.7'	S 7°39.7'	180°19.8'	S 22°02.0'	83°00.7'	N 0°06.9'
22	103°30.5'	S 0°11.6'	257°29.1'	S 7°39.7'	195°22.0'	S 22°02.0'	98°01.5'	N 0°07.7'
23	118°31.2'	S 0°10.5'	272°31.5'	S 7°39.7'	210°24.2'	S 22°02.0'	113°02.3'	N 0°08.5'

Mon Jan 30, 2017 UTC

UTC	Venus -4.4 v = 0.7' d = 1.2'		Jupiter -2.0 v = 2.4' d = 0.0'		Saturn +0.6 v = 2.2' d = 0.0'		Mars +1.1 v = 0.8' d = 0.8'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	133°31.8'	S 0°09.3'	287°33.9'	S 7°39.7'	225°26.4'	S 22°02.0'	128°03.0'	N 0°09.2'
1	148°32.5'	S 0°08.2'	302°36.3'	S 7°39.8'	240°28.6'	S 22°02.0'	143°03.8'	N 0°10.0'
2	163°33.1'	S 0°07.0'	317°38.7'	S 7°39.8'	255°30.8'	S 22°02.1'	158°04.6'	N 0°10.8'
3	178°33.7'	S 0°05.8'	332°41.2'	S 7°39.8'	270°33.0'	S 22°02.1'	173°05.3'	N 0°11.6'
4	193°34.4'	S 0°04.7'	347°43.6'	S 7°39.8'	285°35.2'	S 22°02.1'	188°06.1'	N 0°12.3'
5	208°35.0'	S 0°03.5'	2°46.0'	S 7°39.8'	300°37.4'	S 22°02.1'	203°06.9'	N 0°13.1'
6	223°35.7'	S 0°02.4'	17°48.4'	S 7°39.8'	315°39.7'	S 22°02.1'	218°07.6'	N 0°13.9'
7	238°36.3'	S 0°01.2'	32°50.8'	S 7°39.8'	330°41.9'	S 22°02.1'	233°08.4'	N 0°14.7'
8	253°37.0'	S 0°00.0'	47°53.2'	S 7°39.8'	345°44.1'	S 22°02.1'	248°09.2'	N 0°15.5'
9	268°37.6'	N 0°01.1'	62°55.6'	S 7°39.8'	0°46.3'	S 22°02.1'	263°09.9'	N 0°16.2'
10	283°38.3'	N 0°02.3'	77°58.0'	S 7°39.9'	15°48.5'	S 22°02.1'	278°10.7'	N 0°17.0'
11	298°38.9'	N 0°03.4'	93°00.4'	S 7°39.9'	30°50.7'	S 22°02.1'	293°11.5'	N 0°17.8'
12	313°39.6'	N 0°04.6'	108°02.8'	S 7°39.9'	45°52.9'	S 22°02.1'	308°12.3'	N 0°18.6'
13	328°40.2'	N 0°05.7'	123°05.2'	S 7°39.9'	60°55.1'	S 22°02.2'	323°13.0'	N 0°19.3'
14	343°40.9'	N 0°06.9'	138°07.7'	S 7°39.9'	75°57.4'	S 22°02.2'	338°13.8'	N 0°20.1'
15	358°41.6'	N 0°08.1'	153°10.1'	S 7°39.9'	90°59.6'	S 22°02.2'	353°14.6'	N 0°20.9'
16	13°42.2'	N 0°09.2'	168°12.5'	S 7°39.9'	106°01.8'	S 22°02.2'	8°15.3'	N 0°21.7'
17	28°42.9'	N 0°10.4'	183°14.9'	S 7°39.9'	121°04.0'	S 22°02.2'	23°16.1'	N 0°22.4'
18	43°43.5'	N 0°11.5'	198°17.3'	S 7°39.9'	136°06.2'	S 22°02.2'	38°16.9'	N 0°23.2'
19	58°44.2'	N 0°12.7'	213°19.7'	S 7°39.9'	151°08.4'	S 22°02.2'	53°17.6'	N 0°24.0'
20	73°44.9'	N 0°13.8'	228°22.1'	S 7°40.0'	166°10.6'	S 22°02.2'	68°18.4'	N 0°24.8'
21	88°45.5'	N 0°15.0'	243°24.5'	S 7°40.0'	181°12.8'	S 22°02.2'	83°19.2'	N 0°25.5'
22	103°46.2'	N 0°16.1'	258°26.9'	S 7°40.0'	196°15.1'	S 22°02.2'	98°19.9'	N 0°26.3'
23	118°46.9'	N 0°17.3'	273°29.4'	S 7°40.0'	211°17.3'	S 22°02.2'	113°20.7'	N 0°27.1'

Tue Jan 31, 2017 UTC

UTC	Venus -4.4 v = 0.7' d = 1.1'		Jupiter -2.0 v = 2.4' d = 0.0'		Saturn +0.6 v = 2.2' d = 0.0'		Mars +1.1 v = 0.8' d = 0.8'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	133°47.5'	N 0°18.4'	288°31.8'	S 7°40.0'	226°19.5'	S 22°02.2'	128°21.5'	N 0°27.9'
1	148°48.2'	N 0°19.6'	303°34.2'	S 7°40.0'	241°21.7'	S 22°02.3'	143°22.2'	N 0°28.7'
2	163°48.9'	N 0°20.8'	318°36.6'	S 7°40.0'	256°23.9'	S 22°02.3'	158°23.0'	N 0°29.4'
3	178°49.6'	N 0°21.9'	333°39.0'	S 7°40.0'	271°26.1'	S 22°02.3'	173°23.8'	N 0°30.2'
4	193°50.2'	N 0°23.1'	348°41.4'	S 7°40.0'	286°28.3'	S 22°02.3'	188°24.5'	N 0°31.0'
5	208°50.9'	N 0°24.2'	3°43.8'	S 7°40.0'	301°30.6'	S 22°02.3'	203°25.3'	N 0°31.8'
6	223°51.6'	N 0°25.4'	18°46.3'	S 7°40.0'	316°32.8'	S 22°02.3'	218°26.1'	N 0°32.5'
7	238°52.3'	N 0°26.5'	33°48.7'	S 7°40.0'	331°35.0'	S 22°02.3'	233°26.8'	N 0°33.3'
8	253°53.0'	N 0°27.7'	48°51.1'	S 7°40.1'	346°37.2'	S 22°02.3'	248°27.6'	N 0°34.1'
9	268°53.6'	N 0°28.8'	63°53.5'	S 7°40.1'	1°39.4'	S 22°02.3'	263°28.4'	N 0°34.9'
10	283°54.3'	N 0°30.0'	78°55.9'	S 7°40.1'	16°41.6'	S 22°02.3'	278°29.2'	N 0°35.6'
11	298°55.0'	N 0°31.1'	93°58.3'	S 7°40.1'	31°43.8'	S 22°02.3'	293°29.9'	N 0°36.4'
12	313°55.7'	N 0°32.3'	109°00.8'	S 7°40.1'	46°46.1'	S 22°02.3'	308°30.7'	N 0°37.2'
13	328°56.4'	N 0°33.4'	124°03.2'	S 7°40.1'	61°48.3'	S 22°02.4'	323°31.5'	N 0°38.0'
14	343°57.1'	N 0°34.6'	139°05.6'	S 7°40.1'	76°50.5'	S 22°02.4'	338°32.2'	N 0°38.7'
15	358°57.8'	N 0°35.7'	154°08.0'	S 7°40.1'	91°52.7'	S 22°02.4'	353°33.0'	N 0°39.5'
16	13°58.5'	N 0°36.9'	169°10.4'	S 7°40.1'	106°54.9'	S 22°02.4'	8°33.8'	N 0°40.3'
17	28°59.2'	N 0°38.0'	184°12.9'	S 7°40.1'	121°57.1'	S 22°02.4'	23°34.5'	N 0°41.1'
18	43°59.9'	N 0°39.2'	199°15.3'	S 7°40.1'	136°59.4'	S 22°02.4'	38°35.3'	N 0°41.8'
19	59°00.6'	N 0°40.3'	214°17.7'	S 7°40.1'	152°01.6'	S 22°02.4'	53°36.1'	N 0°42.6'
20	74°01.3'	N 0°41.4'	229°20.1'	S 7°40.1'	167°03.8'	S 22°02.4'	68°36.8'	N 0°43.4'
21	89°02.0'	N 0°42.6'	244°22.5'	S 7°40.1'	182°06.0'	S 22°02.4'	83°37.6'	N 0°44.2'
22	104°02.7'	N 0°43.7'	259°25.0'	S 7°40.1'	197°08.2'	S 22°02.4'	98°38.4'	N 0°44.9'
23	119°03.4'	N 0°44.9'	274°27.4'	S 7°40.2'	212°10.4'	S 22°02.4'	113°39.1'	N 0°45.7'