

Thu Feb 1, 2018 UTC

UTC	Venus -3.8 v = -0.7' d = 0.9'		Jupiter -1.8 v = 2.2' d = 0.1'		Saturn +0.6 v = 2.2' d = 0.0'		Mars +1.2 v = 0.9' d = 0.3'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	170°46.9'	S 16°52.2'	262°01.4'	S 16°59.8'	215°55.2'	S 22°28.1'	249°41.8'	S 20°11.3'
1	185°46.3'	S 16°51.2'	277°03.6'	S 16°59.9'	230°57.4'	S 22°28.1'	264°42.7'	S 20°11.7'
2	200°45.6'	S 16°50.3'	292°05.8'	S 16°59.9'	245°59.6'	S 22°28.1'	279°43.5'	S 20°12.0'
3	215°44.9'	S 16°49.4'	307°08.0'	S 17°00.0'	261°01.8'	S 22°28.1'	294°44.4'	S 20°12.3'
4	230°44.3'	S 16°48.5'	322°10.2'	S 17°00.1'	276°04.0'	S 22°28.1'	309°45.3'	S 20°12.6'
5	245°43.6'	S 16°47.5'	337°12.4'	S 17°00.1'	291°06.2'	S 22°28.1'	324°46.1'	S 20°12.9'
6	260°42.9'	S 16°46.6'	352°14.6'	S 17°00.2'	306°08.4'	S 22°28.1'	339°47.0'	S 20°13.2'
7	275°42.3'	S 16°45.7'	7°16.8'	S 17°00.3'	321°10.6'	S 22°28.1'	354°47.9'	S 20°13.6'
8	290°41.6'	S 16°44.7'	22°19.0'	S 17°00.3'	336°12.8'	S 22°28.0'	9°48.7'	S 20°13.9'
9	305°40.9'	S 16°43.8'	37°21.2'	S 17°00.4'	351°14.9'	S 22°28.0'	24°49.6'	S 20°14.2'
10	320°40.3'	S 16°42.9'	52°23.4'	S 17°00.4'	6°17.1'	S 22°28.0'	39°50.5'	S 20°14.5'
11	335°39.6'	S 16°41.9'	67°25.6'	S 17°00.5'	21°19.3'	S 22°28.0'	54°51.3'	S 20°14.8'
12	350°38.9'	S 16°41.0'	82°27.8'	S 17°00.6'	36°21.5'	S 22°28.0'	69°52.2'	S 20°15.1'
13	5°38.3'	S 16°40.1'	97°30.0'	S 17°00.6'	51°23.7'	S 22°28.0'	84°53.1'	S 20°15.4'
14	20°37.6'	S 16°39.1'	112°32.2'	S 17°00.7'	66°25.9'	S 22°28.0'	99°53.9'	S 20°15.8'
15	35°37.0'	S 16°38.2'	127°34.4'	S 17°00.7'	81°28.1'	S 22°28.0'	114°54.8'	S 20°16.1'
16	50°36.3'	S 16°37.3'	142°36.6'	S 17°00.8'	96°30.3'	S 22°28.0'	129°55.7'	S 20°16.4'
17	65°35.6'	S 16°36.3'	157°38.8'	S 17°00.9'	111°32.5'	S 22°28.0'	144°56.5'	S 20°16.7'
18	80°35.0'	S 16°35.4'	172°41.0'	S 17°00.9'	126°34.7'	S 22°28.0'	159°57.4'	S 20°17.0'
19	95°34.3'	S 16°34.5'	187°43.2'	S 17°01.0'	141°36.8'	S 22°28.0'	174°58.3'	S 20°17.3'
20	110°33.7'	S 16°33.5'	202°45.4'	S 17°01.1'	156°39.0'	S 22°27.9'	189°59.1'	S 20°17.6'
21	125°33.0'	S 16°32.6'	217°47.6'	S 17°01.1'	171°41.2'	S 22°27.9'	205°00.0'	S 20°17.9'
22	140°32.4'	S 16°31.6'	232°49.8'	S 17°01.2'	186°43.4'	S 22°27.9'	220°00.9'	S 20°18.2'
23	155°31.7'	S 16°30.7'	247°52.0'	S 17°01.2'	201°45.6'	S 22°27.9'	235°01.7'	S 20°18.6'

Fri Feb 2, 2018 UTC

UTC	Venus -3.8 v = -0.6' d = 1.0'		Jupiter -1.8 v = 2.2' d = 0.1'		Saturn +0.6 v = 2.2' d = 0.0'		Mars +1.2 v = 0.9' d = 0.3'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	170°31.0'	S 16°29.7'	262°54.2'	S 17°01.3'	216°47.8'	S 22°27.9'	250°02.6'	S 20°18.9'
1	185°30.4'	S 16°28.8'	277°56.4'	S 17°01.4'	231°50.0'	S 22°27.9'	265°03.5'	S 20°19.2'
2	200°29.7'	S 16°27.9'	292°58.6'	S 17°01.4'	246°52.2'	S 22°27.9'	280°04.3'	S 20°19.5'
3	215°29.1'	S 16°26.9'	308°00.8'	S 17°01.5'	261°54.4'	S 22°27.9'	295°05.2'	S 20°19.8'
4	230°28.4'	S 16°26.0'	323°03.1'	S 17°01.5'	276°56.6'	S 22°27.9'	310°06.1'	S 20°20.1'
5	245°27.8'	S 16°25.0'	338°05.3'	S 17°01.6'	291°58.8'	S 22°27.9'	325°06.9'	S 20°20.4'
6	260°27.1'	S 16°24.1'	353°07.5'	S 17°01.7'	307°00.9'	S 22°27.9'	340°07.8'	S 20°20.7'
7	275°26.5'	S 16°23.1'	8°09.7'	S 17°01.7'	322°03.1'	S 22°27.9'	355°08.7'	S 20°21.0'
8	290°25.8'	S 16°22.2'	23°11.9'	S 17°01.8'	337°05.3'	S 22°27.8'	10°09.5'	S 20°21.3'
9	305°25.2'	S 16°21.2'	38°14.1'	S 17°01.8'	352°07.5'	S 22°27.8'	25°10.4'	S 20°21.7'
10	320°24.5'	S 16°20.3'	53°16.3'	S 17°01.9'	7°09.7'	S 22°27.8'	40°11.3'	S 20°22.0'
11	335°23.9'	S 16°19.3'	68°18.5'	S 17°02.0'	22°11.9'	S 22°27.8'	55°12.1'	S 20°22.3'
12	350°23.2'	S 16°18.4'	83°20.7'	S 17°02.0'	37°14.1'	S 22°27.8'	70°13.0'	S 20°22.6'
13	5°22.6'	S 16°17.4'	98°22.9'	S 17°02.1'	52°16.3'	S 22°27.8'	85°13.9'	S 20°22.9'
14	20°21.9'	S 16°16.5'	113°25.1'	S 17°02.1'	67°18.5'	S 22°27.8'	100°14.7'	S 20°23.2'
15	35°21.3'	S 16°15.5'	128°27.3'	S 17°02.2'	82°20.7'	S 22°27.8'	115°15.6'	S 20°23.5'
16	50°20.6'	S 16°14.6'	143°29.5'	S 17°02.3'	97°22.9'	S 22°27.8'	130°16.5'	S 20°23.8'
17	65°20.0'	S 16°13.6'	158°31.7'	S 17°02.3'	112°25.1'	S 22°27.8'	145°17.3'	S 20°24.1'
18	80°19.3'	S 16°12.6'	173°33.9'	S 17°02.4'	127°27.3'	S 22°27.8'	160°18.2'	S 20°24.4'
19	95°18.7'	S 16°11.7'	188°36.2'	S 17°02.4'	142°29.4'	S 22°27.7'	175°19.1'	S 20°24.7'
20	110°18.1'	S 16°10.7'	203°38.4'	S 17°02.5'	157°31.6'	S 22°27.7'	190°19.9'	S 20°25.0'
21	125°17.4'	S 16°09.8'	218°40.6'	S 17°02.6'	172°33.8'	S 22°27.7'	205°20.8'	S 20°25.3'
22	140°16.8'	S 16°08.8'	233°42.8'	S 17°02.6'	187°36.0'	S 22°27.7'	220°21.7'	S 20°25.6'
23	155°16.1'	S 16°07.8'	248°45.0'	S 17°02.7'	202°38.2'	S 22°27.7'	235°22.5'	S 20°25.9'

Sat Feb 3, 2018 UTC

UTC	Venus -3.8		Jupiter -1.8		Saturn +0.6		Mars +1.2	
	v = -0.6' d = 1.0'		v = 2.2' d = 0.1'		v = 2.2' d = 0.0'		v = 0.9' d = 0.3'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	170°15.5'	S 16°06.9'	263°47.2'	S 17°02.7'	217°40.4'	S 22°27.7'	250°23.4'	S 20°26.3'
1	185°14.8'	S 16°05.9'	278°49.4'	S 17°02.8'	232°42.6'	S 22°27.7'	265°24.3'	S 20°26.6'
2	200°14.2'	S 16°05.0'	293°51.6'	S 17°02.9'	247°44.8'	S 22°27.7'	280°25.1'	S 20°26.9'
3	215°13.6'	S 16°04.0'	308°53.8'	S 17°02.9'	262°47.0'	S 22°27.7'	295°26.0'	S 20°27.2'
4	230°12.9'	S 16°03.0'	323°56.0'	S 17°03.0'	277°49.2'	S 22°27.7'	310°26.9'	S 20°27.5'
5	245°12.3'	S 16°02.1'	338°58.3'	S 17°03.0'	292°51.4'	S 22°27.7'	325°27.7'	S 20°27.8'
6	260°11.6'	S 16°01.1'	354°00.5'	S 17°03.1'	307°53.6'	S 22°27.7'	340°28.6'	S 20°28.1'
7	275°11.0'	S 16°00.1'	9°02.7'	S 17°03.1'	322°55.8'	S 22°27.6'	355°29.5'	S 20°28.4'
8	290°10.4'	S 15°59.2'	24°04.9'	S 17°03.2'	337°58.0'	S 22°27.6'	10°30.3'	S 20°28.7'
9	305°09.7'	S 15°58.2'	39°07.1'	S 17°03.3'	353°00.1'	S 22°27.6'	25°31.2'	S 20°29.0'
10	320°09.1'	S 15°57.2'	54°09.3'	S 17°03.3'	8°02.3'	S 22°27.6'	40°32.0'	S 20°29.3'
11	335°08.5'	S 15°56.3'	69°11.5'	S 17°03.4'	23°04.5'	S 22°27.6'	55°32.9'	S 20°29.6'
12	350°07.8'	S 15°55.3'	84°13.7'	S 17°03.4'	38°06.7'	S 22°27.6'	70°33.8'	S 20°29.9'
13	5°07.2'	S 15°54.3'	99°16.0'	S 17°03.5'	53°08.9'	S 22°27.6'	85°34.6'	S 20°30.2'
14	20°06.5'	S 15°53.3'	114°18.2'	S 17°03.6'	68°11.1'	S 22°27.6'	100°35.5'	S 20°30.5'
15	35°05.9'	S 15°52.4'	129°20.4'	S 17°03.6'	83°13.3'	S 22°27.6'	115°36.4'	S 20°30.8'
16	50°05.3'	S 15°51.4'	144°22.6'	S 17°03.7'	98°15.5'	S 22°27.6'	130°37.2'	S 20°31.1'
17	65°04.6'	S 15°50.4'	159°24.8'	S 17°03.7'	113°17.7'	S 22°27.6'	145°38.1'	S 20°31.4'
18	80°04.0'	S 15°49.4'	174°27.0'	S 17°03.8'	128°19.9'	S 22°27.5'	160°39.0'	S 20°31.7'
19	95°03.4'	S 15°48.5'	189°29.2'	S 17°03.8'	143°22.1'	S 22°27.5'	175°39.8'	S 20°32.0'
20	110°02.8'	S 15°47.5'	204°31.5'	S 17°03.9'	158°24.3'	S 22°27.5'	190°40.7'	S 20°32.3'
21	125°02.1'	S 15°46.5'	219°33.7'	S 17°04.0'	173°26.5'	S 22°27.5'	205°41.6'	S 20°32.6'
22	140°01.5'	S 15°45.5'	234°35.9'	S 17°04.0'	188°28.7'	S 22°27.5'	220°42.4'	S 20°32.9'
23	155°00.9'	S 15°44.5'	249°38.1'	S 17°04.1'	203°30.9'	S 22°27.5'	235°43.3'	S 20°33.2'

Sun Feb 4, 2018 UTC

UTC	Venus -3.8		Jupiter -1.9		Saturn +0.6		Mars +1.1	
	v = -0.6' d = 1.0'		v = 2.2' d = 0.1'		v = 2.2' d = 0.0'		v = 0.9' d = 0.3'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	170°00.2'	S 15°43.6'	264°40.3'	S 17°04.1'	218°33.1'	S 22°27.5'	250°44.2'	S 20°33.5'
1	184°59.6'	S 15°42.6'	279°42.5'	S 17°04.2'	233°35.3'	S 22°27.5'	265°45.0'	S 20°33.8'
2	199°59.0'	S 15°41.6'	294°44.8'	S 17°04.2'	248°37.5'	S 22°27.5'	280°45.9'	S 20°34.1'
3	214°58.3'	S 15°40.6'	309°47.0'	S 17°04.3'	263°39.7'	S 22°27.5'	295°46.7'	S 20°34.4'
4	229°57.7'	S 15°39.6'	324°49.2'	S 17°04.4'	278°41.8'	S 22°27.5'	310°47.6'	S 20°34.7'
5	244°57.1'	S 15°38.7'	339°51.4'	S 17°04.4'	293°44.0'	S 22°27.4'	325°48.5'	S 20°35.0'
6	259°56.5'	S 15°37.7'	354°53.6'	S 17°04.5'	308°46.2'	S 22°27.4'	340°49.3'	S 20°35.3'
7	274°55.8'	S 15°36.7'	9°55.8'	S 17°04.5'	323°48.4'	S 22°27.4'	355°50.2'	S 20°35.6'
8	289°55.2'	S 15°35.7'	24°58.1'	S 17°04.6'	338°50.6'	S 22°27.4'	10°51.1'	S 20°35.9'
9	304°54.6'	S 15°34.7'	40°00.3'	S 17°04.6'	353°52.8'	S 22°27.4'	25°51.9'	S 20°36.2'
10	319°54.0'	S 15°33.7'	55°02.5'	S 17°04.7'	8°55.0'	S 22°27.4'	40°52.8'	S 20°36.5'
11	334°53.3'	S 15°32.7'	70°04.7'	S 17°04.8'	23°57.2'	S 22°27.4'	55°53.7'	S 20°36.8'
12	349°52.7'	S 15°31.7'	85°06.9'	S 17°04.8'	38°59.4'	S 22°27.4'	70°54.5'	S 20°37.1'
13	4°52.1'	S 15°30.8'	100°09.2'	S 17°04.9'	54°01.6'	S 22°27.4'	85°55.4'	S 20°37.4'
14	19°51.5'	S 15°29.8'	115°11.4'	S 17°04.9'	69°03.8'	S 22°27.4'	100°56.2'	S 20°37.7'
15	34°50.9'	S 15°28.8'	130°13.6'	S 17°05.0'	84°06.0'	S 22°27.4'	115°57.1'	S 20°38.0'
16	49°50.2'	S 15°27.8'	145°15.8'	S 17°05.0'	99°08.2'	S 22°27.3'	130°58.0'	S 20°38.2'
17	64°49.6'	S 15°26.8'	160°18.0'	S 17°05.1'	114°10.4'	S 22°27.3'	145°58.8'	S 20°38.5'
18	79°49.0'	S 15°25.8'	175°20.3'	S 17°05.1'	129°12.6'	S 22°27.3'	160°59.7'	S 20°38.8'
19	94°48.4'	S 15°24.8'	190°22.5'	S 17°05.2'	144°14.8'	S 22°27.3'	176°00.6'	S 20°39.1'
20	109°47.8'	S 15°23.8'	205°24.7'	S 17°05.3'	159°17.0'	S 22°27.3'	191°01.4'	S 20°39.4'
21	124°47.1'	S 15°22.8'	220°26.9'	S 17°05.3'	174°19.2'	S 22°27.3'	206°02.3'	S 20°39.7'
22	139°46.5'	S 15°21.8'	235°29.1'	S 17°05.4'	189°21.4'	S 22°27.3'	221°03.1'	S 20°40.0'
23	154°45.9'	S 15°20.8'	250°31.4'	S 17°05.4'	204°23.6'	S 22°27.3'	236°04.0'	S 20°40.3'

Mon Feb 5, 2018 UTC

UTC	Venus -3.8		Jupiter -1.9		Saturn +0.6		Mars +1.1	
	v = -0.6' d = 1.0'		v = 2.2' d = 0.1'		v = 2.2' d = 0.0'		v = 0.9' d = 0.3'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	169°45.3'	S 15°19.8'	265°33.6'	S 17°05.5'	219°25.8'	S 22°27.3'	251°04.9'	S 20°40.6'
1	184°44.7'	S 15°18.8'	280°35.8'	S 17°05.5'	234°28.0'	S 22°27.3'	266°05.7'	S 20°40.9'
2	199°44.0'	S 15°17.8'	295°38.0'	S 17°05.6'	249°30.2'	S 22°27.3'	281°06.6'	S 20°41.2'
3	214°43.4'	S 15°16.8'	310°40.3'	S 17°05.6'	264°32.4'	S 22°27.2'	296°07.5'	S 20°41.5'
4	229°42.8'	S 15°15.8'	325°42.5'	S 17°05.7'	279°34.6'	S 22°27.2'	311°08.3'	S 20°41.8'
5	244°42.2'	S 15°14.8'	340°44.7'	S 17°05.8'	294°36.8'	S 22°27.2'	326°09.2'	S 20°42.1'
6	259°41.6'	S 15°13.8'	355°46.9'	S 17°05.8'	309°39.0'	S 22°27.2'	341°10.1'	S 20°42.4'
7	274°41.0'	S 15°12.8'	10°49.2'	S 17°05.9'	324°41.2'	S 22°27.2'	356°10.9'	S 20°42.6'
8	289°40.4'	S 15°11.8'	25°51.4'	S 17°05.9'	339°43.4'	S 22°27.2'	11°11.8'	S 20°42.9'
9	304°39.8'	S 15°10.8'	40°53.6'	S 17°06.0'	354°45.6'	S 22°27.2'	26°12.6'	S 20°43.2'
10	319°39.1'	S 15°09.8'	55°55.8'	S 17°06.0'	9°47.8'	S 22°27.2'	41°13.5'	S 20°43.5'
11	334°38.5'	S 15°08.8'	70°58.1'	S 17°06.1'	24°50.0'	S 22°27.2'	56°14.4'	S 20°43.8'
12	349°37.9'	S 15°07.8'	86°00.3'	S 17°06.1'	39°52.2'	S 22°27.2'	71°15.2'	S 20°44.1'
13	4°37.3'	S 15°06.8'	101°02.5'	S 17°06.2'	54°54.4'	S 22°27.2'	86°16.1'	S 20°44.4'
14	19°36.7'	S 15°05.8'	116°04.7'	S 17°06.2'	69°56.6'	S 22°27.1'	101°17.0'	S 20°44.7'
15	34°36.1'	S 15°04.8'	131°07.0'	S 17°06.3'	84°58.7'	S 22°27.1'	116°17.8'	S 20°45.0'
16	49°35.5'	S 15°03.8'	146°09.2'	S 17°06.4'	100°00.9'	S 22°27.1'	131°18.7'	S 20°45.3'
17	64°34.9'	S 15°02.7'	161°11.4'	S 17°06.4'	115°03.1'	S 22°27.1'	146°19.5'	S 20°45.5'
18	79°34.3'	S 15°01.7'	176°13.6'	S 17°06.5'	130°05.3'	S 22°27.1'	161°20.4'	S 20°45.8'
19	94°33.7'	S 15°00.7'	191°15.9'	S 17°06.5'	145°07.5'	S 22°27.1'	176°21.3'	S 20°46.1'
20	109°33.1'	S 14°59.7'	206°18.1'	S 17°06.6'	160°09.7'	S 22°27.1'	191°22.1'	S 20°46.4'
21	124°32.4'	S 14°58.7'	221°20.3'	S 17°06.6'	175°11.9'	S 22°27.1'	206°23.0'	S 20°46.7'
22	139°31.8'	S 14°57.7'	236°22.6'	S 17°06.7'	190°14.1'	S 22°27.1'	221°23.9'	S 20°47.0'
23	154°31.2'	S 14°56.7'	251°24.8'	S 17°06.7'	205°16.3'	S 22°27.1'	236°24.7'	S 20°47.3'

Tue Feb 6, 2018 UTC

UTC	Venus -3.8		Jupiter -1.9		Saturn +0.6		Mars +1.1	
	v = -0.6' d = 1.0'		v = 2.2' d = 0.1'		v = 2.2' d = 0.0'		v = 0.9' d = 0.3'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	169°30.6'	S 14°55.7'	266°27.0'	S 17°06.8'	220°18.5'	S 22°27.1'	251°25.6'	S 20°47.6'
1	184°30.0'	S 14°54.6'	281°29.3'	S 17°06.8'	235°20.7'	S 22°27.0'	266°26.4'	S 20°47.8'
2	199°29.4'	S 14°53.6'	296°31.5'	S 17°06.9'	250°22.9'	S 22°27.0'	281°27.3'	S 20°48.1'
3	214°28.8'	S 14°52.6'	311°33.7'	S 17°06.9'	265°25.1'	S 22°27.0'	296°28.2'	S 20°48.4'
4	229°28.2'	S 14°51.6'	326°35.9'	S 17°07.0'	280°27.3'	S 22°27.0'	311°29.0'	S 20°48.7'
5	244°27.6'	S 14°50.6'	341°38.2'	S 17°07.1'	295°29.5'	S 22°27.0'	326°29.9'	S 20°49.0'
6	259°27.0'	S 14°49.5'	356°40.4'	S 17°07.1'	310°31.7'	S 22°27.0'	341°30.7'	S 20°49.3'
7	274°26.4'	S 14°48.5'	11°42.6'	S 17°07.2'	325°33.9'	S 22°27.0'	356°31.6'	S 20°49.6'
8	289°25.8'	S 14°47.5'	26°44.9'	S 17°07.2'	340°36.1'	S 22°27.0'	11°32.5'	S 20°49.9'
9	304°25.2'	S 14°46.5'	41°47.1'	S 17°07.3'	355°38.3'	S 22°27.0'	26°33.3'	S 20°50.1'
10	319°24.6'	S 14°45.5'	56°49.3'	S 17°07.3'	10°40.5'	S 22°27.0'	41°34.2'	S 20°50.4'
11	334°24.0'	S 14°44.4'	71°51.6'	S 17°07.4'	25°42.7'	S 22°27.0'	56°35.1'	S 20°50.7'
12	349°23.4'	S 14°43.4'	86°53.8'	S 17°07.4'	40°44.9'	S 22°26.9'	71°35.9'	S 20°51.0'
13	4°22.8'	S 14°42.4'	101°56.0'	S 17°07.5'	55°47.1'	S 22°26.9'	86°36.8'	S 20°51.3'
14	19°22.2'	S 14°41.4'	116°58.3'	S 17°07.5'	70°49.4'	S 22°26.9'	101°37.6'	S 20°51.6'
15	34°21.6'	S 14°40.3'	132°00.5'	S 17°07.6'	85°51.6'	S 22°26.9'	116°38.5'	S 20°51.8'
16	49°21.0'	S 14°39.3'	147°02.7'	S 17°07.6'	100°53.8'	S 22°26.9'	131°39.4'	S 20°52.1'
17	64°20.4'	S 14°38.3'	162°05.0'	S 17°07.7'	115°56.0'	S 22°26.9'	146°40.2'	S 20°52.4'
18	79°19.8'	S 14°37.3'	177°07.2'	S 17°07.7'	130°58.2'	S 22°26.9'	161°41.1'	S 20°52.7'
19	94°19.2'	S 14°36.2'	192°09.4'	S 17°07.8'	146°00.4'	S 22°26.9'	176°41.9'	S 20°53.0'
20	109°18.7'	S 14°35.2'	207°11.7'	S 17°07.8'	161°02.6'	S 22°26.9'	191°42.8'	S 20°53.3'
21	124°18.1'	S 14°34.2'	222°13.9'	S 17°07.9'	176°04.8'	S 22°26.9'	206°43.7'	S 20°53.5'
22	139°17.5'	S 14°33.1'	237°16.1'	S 17°07.9'	191°07.0'	S 22°26.9'	221°44.5'	S 20°53.8'
23	154°16.9'	S 14°32.1'	252°18.4'	S 17°08.0'	206°09.2'	S 22°26.8'	236°45.4'	S 20°54.1'

Wed Feb 7, 2018 UTC

UTC	Venus -3.8		Jupiter -1.9		Saturn +0.6		Mars +1.1	
	v = -0.6' d = 1.0'		v = 2.2' d = 0.1'		v = 2.2' d = 0.0'		v = 0.9' d = 0.3'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	169°16.3'	S 14°31.1'	267°20.6'	S 17°08.0'	221°11.4'	S 22°26.8'	251°46.2'	S 20°54.4'
1	184°15.7'	S 14°30.0'	282°22.8'	S 17°08.1'	236°13.6'	S 22°26.8'	266°47.1'	S 20°54.7'
2	199°15.1'	S 14°29.0'	297°25.1'	S 17°08.1'	251°15.8'	S 22°26.8'	281°48.0'	S 20°54.9'
3	214°14.5'	S 14°28.0'	312°27.3'	S 17°08.2'	266°18.0'	S 22°26.8'	296°48.8'	S 20°55.2'
4	229°13.9'	S 14°26.9'	327°29.6'	S 17°08.3'	281°20.2'	S 22°26.8'	311°49.7'	S 20°55.5'
5	244°13.3'	S 14°25.9'	342°31.8'	S 17°08.3'	296°22.4'	S 22°26.8'	326°50.6'	S 20°55.8'
6	259°12.7'	S 14°24.9'	357°34.0'	S 17°08.4'	311°24.6'	S 22°26.8'	341°51.4'	S 20°56.1'
7	274°12.1'	S 14°23.8'	12°36.3'	S 17°08.4'	326°26.8'	S 22°26.8'	356°52.3'	S 20°56.3'
8	289°11.6'	S 14°22.8'	27°38.5'	S 17°08.5'	341°29.0'	S 22°26.8'	11°53.1'	S 20°56.6'
9	304°11.0'	S 14°21.8'	42°40.7'	S 17°08.5'	356°31.2'	S 22°26.7'	26°54.0'	S 20°56.9'
10	319°10.4'	S 14°20.7'	57°43.0'	S 17°08.6'	11°33.4'	S 22°26.7'	41°54.9'	S 20°57.2'
11	334°09.8'	S 14°19.7'	72°45.2'	S 17°08.6'	26°35.6'	S 22°26.7'	56°55.7'	S 20°57.5'
12	349°09.2'	S 14°18.6'	87°47.5'	S 17°08.7'	41°37.8'	S 22°26.7'	71°56.6'	S 20°57.7'
13	4°08.6'	S 14°17.6'	102°49.7'	S 17°08.7'	56°40.0'	S 22°26.7'	86°57.4'	S 20°58.0'
14	19°08.0'	S 14°16.5'	117°51.9'	S 17°08.8'	71°42.2'	S 22°26.7'	101°58.3'	S 20°58.3'
15	34°07.5'	S 14°15.5'	132°54.2'	S 17°08.8'	86°44.4'	S 22°26.7'	116°59.2'	S 20°58.6'
16	49°06.9'	S 14°14.5'	147°56.4'	S 17°08.9'	101°46.6'	S 22°26.7'	132°00.0'	S 20°58.9'
17	64°06.3'	S 14°13.4'	162°58.7'	S 17°08.9'	116°48.8'	S 22°26.7'	147°00.9'	S 20°59.1'
18	79°05.7'	S 14°12.4'	178°00.9'	S 17°09.0'	131°51.0'	S 22°26.7'	162°01.7'	S 20°59.4'
19	94°05.1'	S 14°11.3'	193°03.1'	S 17°09.0'	146°53.2'	S 22°26.7'	177°02.6'	S 20°59.7'
20	109°04.5'	S 14°10.3'	208°05.4'	S 17°09.1'	161°55.4'	S 22°26.6'	192°03.5'	S 20°60.0'
21	124°04.0'	S 14°09.2'	223°07.6'	S 17°09.1'	176°57.6'	S 22°26.6'	207°04.3'	S 21°00.2'
22	139°03.4'	S 14°08.2'	238°09.9'	S 17°09.2'	191°59.8'	S 22°26.6'	222°05.2'	S 21°00.5'
23	154°02.8'	S 14°07.1'	253°12.1'	S 17°09.2'	207°02.0'	S 22°26.6'	237°06.0'	S 21°00.8'

Thu Feb 8, 2018 UTC

UTC	Venus -3.8		Jupiter -1.9		Saturn +0.6		Mars +1.1	
	v = -0.6' d = 1.1'		v = 2.2' d = 0.0'		v = 2.2' d = 0.0'		v = 0.9' d = 0.3'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	169°02.2'	S 14°06.1'	268°14.4'	S 17°09.3'	222°04.2'	S 22°26.6'	252°06.9'	S 21°01.1'
1	184°01.6'	S 14°05.0'	283°16.6'	S 17°09.3'	237°06.5'	S 22°26.6'	267°07.8'	S 21°01.3'
2	199°01.1'	S 14°04.0'	298°18.8'	S 17°09.4'	252°08.7'	S 22°26.6'	282°08.6'	S 21°01.6'
3	214°00.5'	S 14°02.9'	313°21.1'	S 17°09.4'	267°10.9'	S 22°26.6'	297°09.5'	S 21°01.9'
4	228°59.9'	S 14°01.9'	328°23.3'	S 17°09.5'	282°13.1'	S 22°26.6'	312°10.3'	S 21°02.2'
5	243°59.3'	S 14°00.8'	343°25.6'	S 17°09.5'	297°15.3'	S 22°26.6'	327°11.2'	S 21°02.4'
6	258°58.7'	S 13°59.8'	358°27.8'	S 17°09.6'	312°17.5'	S 22°26.5'	342°12.1'	S 21°02.7'
7	273°58.2'	S 13°58.7'	13°30.1'	S 17°09.6'	327°19.7'	S 22°26.5'	357°12.9'	S 21°03.0'
8	288°57.6'	S 13°57.7'	28°32.3'	S 17°09.7'	342°21.9'	S 22°26.5'	12°13.8'	S 21°03.3'
9	303°57.0'	S 13°56.6'	43°34.6'	S 17°09.7'	357°24.1'	S 22°26.5'	27°14.6'	S 21°03.5'
10	318°56.4'	S 13°55.6'	58°36.8'	S 17°09.8'	12°26.3'	S 22°26.5'	42°15.5'	S 21°03.8'
11	333°55.9'	S 13°54.5'	73°39.0'	S 17°09.8'	27°28.5'	S 22°26.5'	57°16.4'	S 21°04.1'
12	348°55.3'	S 13°53.5'	88°41.3'	S 17°09.9'	42°30.7'	S 22°26.5'	72°17.2'	S 21°04.3'
13	3°54.7'	S 13°52.4'	103°43.5'	S 17°09.9'	57°32.9'	S 22°26.5'	87°18.1'	S 21°04.6'
14	18°54.2'	S 13°51.3'	118°45.8'	S 17°10.0'	72°35.1'	S 22°26.5'	102°18.9'	S 21°04.9'
15	33°53.6'	S 13°50.3'	133°48.0'	S 17°10.0'	87°37.3'	S 22°26.5'	117°19.8'	S 21°05.2'
16	48°53.0'	S 13°49.2'	148°50.3'	S 17°10.0'	102°39.5'	S 22°26.5'	132°20.7'	S 21°05.4'
17	63°52.4'	S 13°48.2'	163°52.5'	S 17°10.1'	117°41.7'	S 22°26.4'	147°21.5'	S 21°05.7'
18	78°51.9'	S 13°47.1'	178°54.8'	S 17°10.1'	132°43.9'	S 22°26.4'	162°22.4'	S 21°06.0'
19	93°51.3'	S 13°46.1'	193°57.0'	S 17°10.2'	147°46.2'	S 22°26.4'	177°23.2'	S 21°06.2'
20	108°50.7'	S 13°45.0'	208°59.3'	S 17°10.2'	162°48.4'	S 22°26.4'	192°24.1'	S 21°06.5'
21	123°50.2'	S 13°43.9'	224°01.5'	S 17°10.3'	177°50.6'	S 22°26.4'	207°25.0'	S 21°06.8'
22	138°49.6'	S 13°42.9'	239°03.8'	S 17°10.3'	192°52.8'	S 22°26.4'	222°25.8'	S 21°07.1'
23	153°49.0'	S 13°41.8'	254°06.0'	S 17°10.4'	207°55.0'	S 22°26.4'	237°26.7'	S 21°07.3'

Fri Feb 9, 2018 UTC

UTC	Venus -3.8		Jupiter -1.9		Saturn +0.6		Mars +1.1	
	v = -0.6' d = 1.1'		v = 2.3' d = 0.0'		v = 2.2' d = 0.0'		v = 0.9' d = 0.3'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	168°48.4'	S 13°40.7'	269°08.3'	S 17°10.4'	222°57.2'	S 22°26.4'	252°27.5'	S 21°07.6'
1	183°47.9'	S 13°39.7'	284°10.5'	S 17°10.5'	237°59.4'	S 22°26.4'	267°28.4'	S 21°07.9'
2	198°47.3'	S 13°38.6'	299°12.8'	S 17°10.5'	253°01.6'	S 22°26.4'	282°29.3'	S 21°08.1'
3	213°46.7'	S 13°37.5'	314°15.0'	S 17°10.6'	268°03.8'	S 22°26.3'	297°30.1'	S 21°08.4'
4	228°46.2'	S 13°36.5'	329°17.3'	S 17°10.6'	283°06.0'	S 22°26.3'	312°31.0'	S 21°08.7'
5	243°45.6'	S 13°35.4'	344°19.5'	S 17°10.7'	298°08.2'	S 22°26.3'	327°31.8'	S 21°08.9'
6	258°45.0'	S 13°34.3'	359°21.8'	S 17°10.7'	313°10.4'	S 22°26.3'	342°32.7'	S 21°09.2'
7	273°44.5'	S 13°33.3'	14°24.0'	S 17°10.8'	328°12.6'	S 22°26.3'	357°33.6'	S 21°09.5'
8	288°43.9'	S 13°32.2'	29°26.3'	S 17°10.8'	343°14.8'	S 22°26.3'	12°34.4'	S 21°09.7'
9	303°43.4'	S 13°31.1'	44°28.5'	S 17°10.9'	358°17.1'	S 22°26.3'	27°35.3'	S 21°10.0'
10	318°42.8'	S 13°30.1'	59°30.8'	S 17°10.9'	13°19.3'	S 22°26.3'	42°36.1'	S 21°10.3'
11	333°42.2'	S 13°29.0'	74°33.0'	S 17°11.0'	28°21.5'	S 22°26.3'	57°37.0'	S 21°10.5'
12	348°41.7'	S 13°27.9'	89°35.3'	S 17°11.0'	43°23.7'	S 22°26.3'	72°37.8'	S 21°10.8'
13	3°41.1'	S 13°26.8'	104°37.5'	S 17°11.1'	58°25.9'	S 22°26.3'	87°38.7'	S 21°11.1'
14	18°40.5'	S 13°25.8'	119°39.8'	S 17°11.1'	73°28.1'	S 22°26.2'	102°39.6'	S 21°11.3'
15	33°40.0'	S 13°24.7'	134°42.0'	S 17°11.1'	88°30.3'	S 22°26.2'	117°40.4'	S 21°11.6'
16	48°39.4'	S 13°23.6'	149°44.3'	S 17°11.2'	103°32.5'	S 22°26.2'	132°41.3'	S 21°11.9'
17	63°38.9'	S 13°22.5'	164°46.5'	S 17°11.2'	118°34.7'	S 22°26.2'	147°42.1'	S 21°12.1'
18	78°38.3'	S 13°21.5'	179°48.8'	S 17°11.3'	133°36.9'	S 22°26.2'	162°43.0'	S 21°12.4'
19	93°37.7'	S 13°20.4'	194°51.1'	S 17°11.3'	148°39.1'	S 22°26.2'	177°43.9'	S 21°12.7'
20	108°37.2'	S 13°19.3'	209°53.3'	S 17°11.4'	163°41.4'	S 22°26.2'	192°44.7'	S 21°12.9'
21	123°36.6'	S 13°18.2'	224°55.6'	S 17°11.4'	178°43.6'	S 22°26.2'	207°45.6'	S 21°13.2'
22	138°36.1'	S 13°17.2'	239°57.8'	S 17°11.5'	193°45.8'	S 22°26.2'	222°46.4'	S 21°13.5'
23	153°35.5'	S 13°16.1'	255°00.1'	S 17°11.5'	208°48.0'	S 22°26.2'	237°47.3'	S 21°13.7'

Sat Feb 10, 2018 UTC

UTC	Venus -3.8		Jupiter -1.9		Saturn +0.6		Mars +1.1	
	v = -0.6' d = 1.1'		v = 2.3' d = 0.0'		v = 2.2' d = 0.0'		v = 0.9' d = 0.3'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	168°35.0'	S 13°15.0'	270°02.3'	S 17°11.6'	223°50.2'	S 22°26.1'	252°48.2'	S 21°14.0'
1	183°34.4'	S 13°13.9'	285°04.6'	S 17°11.6'	238°52.4'	S 22°26.1'	267°49.0'	S 21°14.2'
2	198°33.8'	S 13°12.8'	300°06.8'	S 17°11.7'	253°54.6'	S 22°26.1'	282°49.9'	S 21°14.5'
3	213°33.3'	S 13°11.8'	315°09.1'	S 17°11.7'	268°56.8'	S 22°26.1'	297°50.7'	S 21°14.8'
4	228°32.7'	S 13°10.7'	330°11.4'	S 17°11.7'	283°59.0'	S 22°26.1'	312°51.6'	S 21°15.0'
5	243°32.2'	S 13°09.6'	345°13.6'	S 17°11.8'	299°01.2'	S 22°26.1'	327°52.5'	S 21°15.3'
6	258°31.6'	S 13°08.5'	0°15.9'	S 17°11.8'	314°03.5'	S 22°26.1'	342°53.3'	S 21°15.6'
7	273°31.1'	S 13°07.4'	15°18.1'	S 17°11.9'	329°05.7'	S 22°26.1'	357°54.2'	S 21°15.8'
8	288°30.5'	S 13°06.4'	30°20.4'	S 17°11.9'	344°07.9'	S 22°26.1'	12°55.0'	S 21°16.1'
9	303°30.0'	S 13°05.3'	45°22.7'	S 17°12.0'	359°10.1'	S 22°26.1'	27°55.9'	S 21°16.3'
10	318°29.4'	S 13°04.2'	60°24.9'	S 17°12.0'	14°12.3'	S 22°26.0'	42°56.7'	S 21°16.6'
11	333°28.9'	S 13°03.1'	75°27.2'	S 17°12.1'	29°14.5'	S 22°26.0'	57°57.6'	S 21°16.9'
12	348°28.3'	S 13°02.0'	90°29.4'	S 17°12.1'	44°16.7'	S 22°26.0'	72°58.5'	S 21°17.1'
13	3°27.8'	S 13°00.9'	105°31.7'	S 17°12.2'	59°18.9'	S 22°26.0'	87°59.3'	S 21°17.4'
14	18°27.2'	S 12°59.8'	120°34.0'	S 17°12.2'	74°21.1'	S 22°26.0'	103°00.2'	S 21°17.6'
15	33°26.7'	S 12°58.7'	135°36.2'	S 17°12.2'	89°23.3'	S 22°26.0'	118°01.0'	S 21°17.9'
16	48°26.1'	S 12°57.7'	150°38.5'	S 17°12.3'	104°25.6'	S 22°26.0'	133°01.9'	S 21°18.2'
17	63°25.6'	S 12°56.6'	165°40.7'	S 17°12.3'	119°27.8'	S 22°26.0'	148°02.8'	S 21°18.4'
18	78°25.0'	S 12°55.5'	180°43.0'	S 17°12.4'	134°30.0'	S 22°26.0'	163°03.6'	S 21°18.7'
19	93°24.5'	S 12°54.4'	195°45.3'	S 17°12.4'	149°32.2'	S 22°26.0'	178°04.5'	S 21°18.9'
20	108°23.9'	S 12°53.3'	210°47.5'	S 17°12.5'	164°34.4'	S 22°26.0'	193°05.3'	S 21°19.2'
21	123°23.4'	S 12°52.2'	225°49.8'	S 17°12.5'	179°36.6'	S 22°25.9'	208°06.2'	S 21°19.5'
22	138°22.8'	S 12°51.1'	240°52.0'	S 17°12.6'	194°38.8'	S 22°25.9'	223°07.0'	S 21°19.7'
23	153°22.3'	S 12°50.0'	255°54.3'	S 17°12.6'	209°41.0'	S 22°25.9'	238°07.9'	S 21°20.0'

Sun Feb 11, 2018 UTC

UTC	Venus -3.8 v = -0.5' d = 1.1'		Jupiter -1.9 v = 2.3' d = 0.0'		Saturn +0.6 v = 2.2' d = 0.0'		Mars +1.1 v = 0.9' d = 0.3'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	168°21.8'	S 12°48.9'	270°56.6'	S 17°12.6'	224°43.3'	S 22°25.9'	253°08.8'	S 21°20.2'
1	183°21.2'	S 12°47.8'	285°58.8'	S 17°12.7'	239°45.5'	S 22°25.9'	268°09.6'	S 21°20.5'
2	198°20.7'	S 12°46.7'	301°01.1'	S 17°12.7'	254°47.7'	S 22°25.9'	283°10.5'	S 21°20.7'
3	213°20.1'	S 12°45.6'	316°03.4'	S 17°12.8'	269°49.9'	S 22°25.9'	298°11.3'	S 21°21.0'
4	228°19.6'	S 12°44.5'	331°05.6'	S 17°12.8'	284°52.1'	S 22°25.9'	313°12.2'	S 21°21.3'
5	243°19.0'	S 12°43.4'	346°07.9'	S 17°12.9'	299°54.3'	S 22°25.9'	328°13.1'	S 21°21.5'
6	258°18.5'	S 12°42.3'	1°10.2'	S 17°12.9'	314°56.5'	S 22°25.9'	343°13.9'	S 21°21.8'
7	273°17.9'	S 12°41.2'	16°12.4'	S 17°13.0'	329°58.7'	S 22°25.8'	358°14.8'	S 21°22.0'
8	288°17.4'	S 12°40.1'	31°14.7'	S 17°13.0'	345°01.0'	S 22°25.8'	13°15.6'	S 21°22.3'
9	303°16.9'	S 12°39.0'	46°17.0'	S 17°13.0'	0°03.2'	S 22°25.8'	28°16.5'	S 21°22.5'
10	318°16.3'	S 12°37.9'	61°19.2'	S 17°13.1'	15°05.4'	S 22°25.8'	43°17.3'	S 21°22.8'
11	333°15.8'	S 12°36.8'	76°21.5'	S 17°13.1'	30°07.6'	S 22°25.8'	58°18.2'	S 21°23.0'
12	348°15.2'	S 12°35.7'	91°23.8'	S 17°13.2'	45°09.8'	S 22°25.8'	73°19.1'	S 21°23.3'
13	3°14.7'	S 12°34.6'	106°26.0'	S 17°13.2'	60°12.0'	S 22°25.8'	88°19.9'	S 21°23.6'
14	18°14.2'	S 12°33.5'	121°28.3'	S 17°13.3'	75°14.2'	S 22°25.8'	103°20.8'	S 21°23.8'
15	33°13.6'	S 12°32.4'	136°30.6'	S 17°13.3'	90°16.4'	S 22°25.8'	118°21.6'	S 21°24.1'
16	48°13.1'	S 12°31.3'	151°32.8'	S 17°13.3'	105°18.7'	S 22°25.8'	133°22.5'	S 21°24.3'
17	63°12.6'	S 12°30.2'	166°35.1'	S 17°13.4'	120°20.9'	S 22°25.7'	148°23.3'	S 21°24.6'
18	78°12.0'	S 12°29.1'	181°37.4'	S 17°13.4'	135°23.1'	S 22°25.7'	163°24.2'	S 21°24.8'
19	93°11.5'	S 12°28.0'	196°39.6'	S 17°13.5'	150°25.3'	S 22°25.7'	178°25.1'	S 21°25.1'
20	108°10.9'	S 12°26.9'	211°41.9'	S 17°13.5'	165°27.5'	S 22°25.7'	193°25.9'	S 21°25.3'
21	123°10.4'	S 12°25.8'	226°44.2'	S 17°13.6'	180°29.7'	S 22°25.7'	208°26.8'	S 21°25.6'
22	138°09.9'	S 12°24.7'	241°46.4'	S 17°13.6'	195°31.9'	S 22°25.7'	223°27.6'	S 21°25.8'
23	153°09.3'	S 12°23.6'	256°48.7'	S 17°13.6'	210°34.2'	S 22°25.7'	238°28.5'	S 21°26.1'

Mon Feb 12, 2018 UTC

UTC	Venus -3.8 v = -0.5' d = 1.1'		Jupiter -1.9 v = 2.3' d = 0.0'		Saturn +0.6 v = 2.2' d = 0.0'		Mars +1.1 v = 0.9' d = 0.2'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	168°08.8'	S 12°22.5'	271°51.0'	S 17°13.7'	225°36.4'	S 22°25.7'	253°29.4'	S 21°26.3'
1	183°08.3'	S 12°21.4'	286°53.2'	S 17°13.7'	240°38.6'	S 22°25.7'	268°30.2'	S 21°26.6'
2	198°07.7'	S 12°20.3'	301°55.5'	S 17°13.8'	255°40.8'	S 22°25.7'	283°31.1'	S 21°26.8'
3	213°07.2'	S 12°19.2'	316°57.8'	S 17°13.8'	270°43.0'	S 22°25.6'	298°31.9'	S 21°27.1'
4	228°06.7'	S 12°18.1'	332°00.1'	S 17°13.8'	285°45.2'	S 22°25.6'	313°32.8'	S 21°27.3'
5	243°06.2'	S 12°16.9'	347°02.3'	S 17°13.9'	300°47.5'	S 22°25.6'	328°33.6'	S 21°27.6'
6	258°05.6'	S 12°15.8'	2°04.6'	S 17°13.9'	315°49.7'	S 22°25.6'	343°34.5'	S 21°27.8'
7	273°05.1'	S 12°14.7'	17°06.9'	S 17°14.0'	330°51.9'	S 22°25.6'	358°35.4'	S 21°28.1'
8	288°04.6'	S 12°13.6'	32°09.2'	S 17°14.0'	345°54.1'	S 22°25.6'	13°36.2'	S 21°28.3'
9	303°04.0'	S 12°12.5'	47°11.4'	S 17°14.1'	0°56.3'	S 22°25.6'	28°37.1'	S 21°28.6'
10	318°03.5'	S 12°11.4'	62°13.7'	S 17°14.1'	15°58.5'	S 22°25.6'	43°37.9'	S 21°28.8'
11	333°03.0'	S 12°10.3'	77°16.0'	S 17°14.1'	31°00.7'	S 22°25.6'	58°38.8'	S 21°29.1'
12	348°02.4'	S 12°09.1'	92°18.2'	S 17°14.2'	46°03.0'	S 22°25.6'	73°39.6'	S 21°29.3'
13	3°01.9'	S 12°08.0'	107°20.5'	S 17°14.2'	61°05.2'	S 22°25.5'	88°40.5'	S 21°29.6'
14	18°01.4'	S 12°06.9'	122°22.8'	S 17°14.3'	76°07.4'	S 22°25.5'	103°41.4'	S 21°29.8'
15	33°00.9'	S 12°05.8'	137°25.1'	S 17°14.3'	91°09.6'	S 22°25.5'	118°42.2'	S 21°30.1'
16	48°00.3'	S 12°04.7'	152°27.3'	S 17°14.3'	106°11.8'	S 22°25.5'	133°43.1'	S 21°30.3'
17	62°59.8'	S 12°03.6'	167°29.6'	S 17°14.4'	121°14.0'	S 22°25.5'	148°43.9'	S 21°30.6'
18	77°59.3'	S 12°02.4'	182°31.9'	S 17°14.4'	136°16.3'	S 22°25.5'	163°44.8'	S 21°30.8'
19	92°58.8'	S 12°01.3'	197°34.2'	S 17°14.5'	151°18.5'	S 22°25.5'	178°45.6'	S 21°31.1'
20	107°58.2'	S 12°00.2'	212°36.4'	S 17°14.5'	166°20.7'	S 22°25.5'	193°46.5'	S 21°31.3'
21	122°57.7'	S 11°59.1'	227°38.7'	S 17°14.6'	181°22.9'	S 22°25.5'	208°47.4'	S 21°31.6'
22	137°57.2'	S 11°58.0'	242°41.0'	S 17°14.6'	196°25.1'	S 22°25.5'	223°48.2'	S 21°31.8'
23	152°56.7'	S 11°56.8'	257°43.3'	S 17°14.6'	211°27.3'	S 22°25.5'	238°49.1'	S 21°32.0'

Tue Feb 13, 2018 UTC

UTC	Venus -3.8 v = -0.5' d = 1.1'		Jupiter -1.9 v = 2.3' d = 0.0'		Saturn +0.6 v = 2.2' d = 0.0'		Mars +1.0 v = 0.9' d = 0.2'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	167°56.1'	S 11°55.7'	272°45.6'	S 17°14.7'	226°29.6'	S 22°25.4'	253°49.9'	S 21°32.3'
1	182°55.6'	S 11°54.6'	287°47.8'	S 17°14.7'	241°31.8'	S 22°25.4'	268°50.8'	S 21°32.5'
2	197°55.1'	S 11°53.5'	302°50.1'	S 17°14.8'	256°34.0'	S 22°25.4'	283°51.7'	S 21°32.8'
3	212°54.6'	S 11°52.4'	317°52.4'	S 17°14.8'	271°36.2'	S 22°25.4'	298°52.5'	S 21°33.0'
4	227°54.1'	S 11°51.2'	332°54.7'	S 17°14.8'	286°38.4'	S 22°25.4'	313°53.4'	S 21°33.3'
5	242°53.5'	S 11°50.1'	347°56.9'	S 17°14.9'	301°40.7'	S 22°25.4'	328°54.2'	S 21°33.5'
6	257°53.0'	S 11°49.0'	2°59.2'	S 17°14.9'	316°42.9'	S 22°25.4'	343°55.1'	S 21°33.8'
7	272°52.5'	S 11°47.9'	18°01.5'	S 17°15.0'	331°45.1'	S 22°25.4'	358°55.9'	S 21°34.0'
8	287°52.0'	S 11°46.7'	33°03.8'	S 17°15.0'	346°47.3'	S 22°25.4'	13°56.8'	S 21°34.2'
9	302°51.5'	S 11°45.6'	48°06.1'	S 17°15.0'	1°49.5'	S 22°25.4'	28°57.7'	S 21°34.5'
10	317°50.9'	S 11°44.5'	63°08.3'	S 17°15.1'	16°51.7'	S 22°25.3'	43°58.5'	S 21°34.7'
11	332°50.4'	S 11°43.4'	78°10.6'	S 17°15.1'	31°54.0'	S 22°25.3'	58°59.4'	S 21°35.0'
12	347°49.9'	S 11°42.2'	93°12.9'	S 17°15.2'	46°56.2'	S 22°25.3'	74°00.2'	S 21°35.2'
13	2°49.4'	S 11°41.1'	108°15.2'	S 17°15.2'	61°58.4'	S 22°25.3'	89°01.1'	S 21°35.5'
14	17°48.9'	S 11°40.0'	123°17.5'	S 17°15.2'	77°00.6'	S 22°25.3'	104°01.9'	S 21°35.7'
15	32°48.4'	S 11°38.8'	138°19.7'	S 17°15.3'	92°02.8'	S 22°25.3'	119°02.8'	S 21°35.9'
16	47°47.8'	S 11°37.7'	153°22.0'	S 17°15.3'	107°05.1'	S 22°25.3'	134°03.7'	S 21°36.2'
17	62°47.3'	S 11°36.6'	168°24.3'	S 17°15.3'	122°07.3'	S 22°25.3'	149°04.5'	S 21°36.4'
18	77°46.8'	S 11°35.4'	183°26.6'	S 17°15.4'	137°09.5'	S 22°25.3'	164°05.4'	S 21°36.7'
19	92°46.3'	S 11°34.3'	198°28.9'	S 17°15.4'	152°11.7'	S 22°25.3'	179°06.2'	S 21°36.9'
20	107°45.8'	S 11°33.2'	213°31.2'	S 17°15.5'	167°13.9'	S 22°25.2'	194°07.1'	S 21°37.1'
21	122°45.3'	S 11°32.0'	228°33.4'	S 17°15.5'	182°16.2'	S 22°25.2'	209°07.9'	S 21°37.4'
22	137°44.8'	S 11°30.9'	243°35.7'	S 17°15.5'	197°18.4'	S 22°25.2'	224°08.8'	S 21°37.6'
23	152°44.2'	S 11°29.8'	258°38.0'	S 17°15.6'	212°20.6'	S 22°25.2'	239°09.7'	S 21°37.9'

Wed Feb 14, 2018 UTC

UTC	Venus -3.8 v = -0.5' d = 1.1'		Jupiter -1.9 v = 2.3' d = 0.0'		Saturn +0.6 v = 2.2' d = 0.0'		Mars +1.0 v = 0.9' d = 0.2'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	167°43.7'	S 11°28.6'	273°40.3'	S 17°15.6'	227°22.8'	S 22°25.2'	254°10.5'	S 21°38.1'
1	182°43.2'	S 11°27.5'	288°42.6'	S 17°15.7'	242°25.0'	S 22°25.2'	269°11.4'	S 21°38.3'
2	197°42.7'	S 11°26.4'	303°44.9'	S 17°15.7'	257°27.3'	S 22°25.2'	284°12.2'	S 21°38.6'
3	212°42.2'	S 11°25.2'	318°47.2'	S 17°15.7'	272°29.5'	S 22°25.2'	299°13.1'	S 21°38.8'
4	227°41.7'	S 11°24.1'	333°49.4'	S 17°15.8'	287°31.7'	S 22°25.2'	314°13.9'	S 21°39.1'
5	242°41.2'	S 11°23.0'	348°51.7'	S 17°15.8'	302°33.9'	S 22°25.2'	329°14.8'	S 21°39.3'
6	257°40.7'	S 11°21.8'	3°54.0'	S 17°15.8'	317°36.1'	S 22°25.1'	344°15.7'	S 21°39.5'
7	272°40.2'	S 11°20.7'	18°56.3'	S 17°15.9'	332°38.4'	S 22°25.1'	359°16.5'	S 21°39.8'
8	287°39.6'	S 11°19.6'	33°58.6'	S 17°15.9'	347°40.6'	S 22°25.1'	14°17.4'	S 21°40.0'
9	302°39.1'	S 11°18.4'	49°00.9'	S 17°16.0'	2°42.8'	S 22°25.1'	29°18.2'	S 21°40.2'
10	317°38.6'	S 11°17.3'	64°03.2'	S 17°16.0'	17°45.0'	S 22°25.1'	44°19.1'	S 21°40.5'
11	332°38.1'	S 11°16.1'	79°05.4'	S 17°16.0'	32°47.3'	S 22°25.1'	59°19.9'	S 21°40.7'
12	347°37.6'	S 11°15.0'	94°07.7'	S 17°16.1'	47°49.5'	S 22°25.1'	74°20.8'	S 21°41.0'
13	2°37.1'	S 11°13.9'	109°10.0'	S 17°16.1'	62°51.7'	S 22°25.1'	89°21.7'	S 21°41.2'
14	17°36.6'	S 11°12.7'	124°12.3'	S 17°16.2'	77°53.9'	S 22°25.1'	104°22.5'	S 21°41.4'
15	32°36.1'	S 11°11.6'	139°14.6'	S 17°16.2'	92°56.1'	S 22°25.1'	119°23.4'	S 21°41.7'
16	47°35.6'	S 11°10.4'	154°16.9'	S 17°16.2'	107°58.4'	S 22°25.0'	134°24.2'	S 21°41.9'
17	62°35.1'	S 11°09.3'	169°19.2'	S 17°16.3'	123°00.6'	S 22°25.0'	149°25.1'	S 21°42.1'
18	77°34.6'	S 11°08.1'	184°21.5'	S 17°16.3'	138°02.8'	S 22°25.0'	164°25.9'	S 21°42.4'
19	92°34.1'	S 11°07.0'	199°23.8'	S 17°16.3'	153°05.0'	S 22°25.0'	179°26.8'	S 21°42.6'
20	107°33.6'	S 11°05.8'	214°26.0'	S 17°16.4'	168°07.3'	S 22°25.0'	194°27.7'	S 21°42.8'
21	122°33.1'	S 11°04.7'	229°28.3'	S 17°16.4'	183°09.5'	S 22°25.0'	209°28.5'	S 21°43.1'
22	137°32.6'	S 11°03.6'	244°30.6'	S 17°16.4'	198°11.7'	S 22°25.0'	224°29.4'	S 21°43.3'
23	152°32.1'	S 11°02.4'	259°32.9'	S 17°16.5'	213°13.9'	S 22°25.0'	239°30.2'	S 21°43.5'

Thu Feb 15, 2018 UTC

UTC	Venus -3.8		Jupiter -1.9		Saturn +0.6		Mars +1.0	
	v = -0.5' d = 1.2'		v = 2.3' d = 0.0'		v = 2.2' d = 0.0'		v = 0.9' d = 0.2'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	167°31.6'	S 11°01.3'	274°35.2'	S 17°16.5'	228°16.1'	S 22°25.0'	254°31.1'	S 21°43.8'
1	182°31.1'	S 11°00.1'	289°37.5'	S 17°16.6'	243°18.4'	S 22°25.0'	269°31.9'	S 21°44.0'
2	197°30.6'	S 10°59.0'	304°39.8'	S 17°16.6'	258°20.6'	S 22°24.9'	284°32.8'	S 21°44.2'
3	212°30.1'	S 10°57.8'	319°42.1'	S 17°16.6'	273°22.8'	S 22°24.9'	299°33.7'	S 21°44.5'
4	227°29.6'	S 10°56.7'	334°44.4'	S 17°16.7'	288°25.0'	S 22°24.9'	314°34.5'	S 21°44.7'
5	242°29.1'	S 10°55.5'	349°46.7'	S 17°16.7'	303°27.3'	S 22°24.9'	329°35.4'	S 21°44.9'
6	257°28.6'	S 10°54.4'	4°49.0'	S 17°16.7'	318°29.5'	S 22°24.9'	344°36.2'	S 21°45.2'
7	272°28.1'	S 10°53.2'	19°51.3'	S 17°16.8'	333°31.7'	S 22°24.9'	359°37.1'	S 21°45.4'
8	287°27.6'	S 10°52.1'	34°53.6'	S 17°16.8'	348°33.9'	S 22°24.9'	14°37.9'	S 21°45.6'
9	302°27.1'	S 10°50.9'	49°55.9'	S 17°16.8'	3°36.2'	S 22°24.9'	29°38.8'	S 21°45.9'
10	317°26.6'	S 10°49.8'	64°58.1'	S 17°16.9'	18°38.4'	S 22°24.9'	44°39.7'	S 21°46.1'
11	332°26.1'	S 10°48.6'	80°00.4'	S 17°16.9'	33°40.6'	S 22°24.9'	59°40.5'	S 21°46.3'
12	347°25.6'	S 10°47.5'	95°02.7'	S 17°17.0'	48°42.8'	S 22°24.8'	74°41.4'	S 21°46.6'
13	2°25.1'	S 10°46.3'	110°05.0'	S 17°17.0'	63°45.1'	S 22°24.8'	89°42.2'	S 21°46.8'
14	17°24.6'	S 10°45.2'	125°07.3'	S 17°17.0'	78°47.3'	S 22°24.8'	104°43.1'	S 21°47.0'
15	32°24.1'	S 10°44.0'	140°09.6'	S 17°17.1'	93°49.5'	S 22°24.8'	119°43.9'	S 21°47.2'
16	47°23.6'	S 10°42.8'	155°11.9'	S 17°17.1'	108°51.7'	S 22°24.8'	134°44.8'	S 21°47.5'
17	62°23.1'	S 10°41.7'	170°14.2'	S 17°17.1'	123°54.0'	S 22°24.8'	149°45.7'	S 21°47.7'
18	77°22.6'	S 10°40.5'	185°16.5'	S 17°17.2'	138°56.2'	S 22°24.8'	164°46.5'	S 21°47.9'
19	92°22.1'	S 10°39.4'	200°18.8'	S 17°17.2'	153°58.4'	S 22°24.8'	179°47.4'	S 21°48.2'
20	107°21.6'	S 10°38.2'	215°21.1'	S 17°17.2'	169°00.6'	S 22°24.8'	194°48.2'	S 21°48.4'
21	122°21.1'	S 10°37.1'	230°23.4'	S 17°17.3'	184°02.9'	S 22°24.7'	209°49.1'	S 21°48.6'
22	137°20.6'	S 10°35.9'	245°25.7'	S 17°17.3'	199°05.1'	S 22°24.7'	224°49.9'	S 21°48.8'
23	152°20.1'	S 10°34.7'	260°28.0'	S 17°17.3'	214°07.3'	S 22°24.7'	239°50.8'	S 21°49.1'

Fri Feb 16, 2018 UTC

UTC	Venus -3.8		Jupiter -1.9		Saturn +0.6		Mars +1.0	
	v = -0.5' d = 1.2'		v = 2.3' d = 0.0'		v = 2.2' d = 0.0'		v = 0.9' d = 0.2'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	167°19.7'	S 10°33.6'	275°30.3'	S 17°17.4'	229°09.5'	S 22°24.7'	254°51.7'	S 21°49.3'
1	182°19.2'	S 10°32.4'	290°32.6'	S 17°17.4'	244°11.8'	S 22°24.7'	269°52.5'	S 21°49.5'
2	197°18.7'	S 10°31.3'	305°34.9'	S 17°17.4'	259°14.0'	S 22°24.7'	284°53.4'	S 21°49.7'
3	212°18.2'	S 10°30.1'	320°37.2'	S 17°17.5'	274°16.2'	S 22°24.7'	299°54.2'	S 21°50.0'
4	227°17.7'	S 10°28.9'	335°39.5'	S 17°17.5'	289°18.4'	S 22°24.7'	314°55.1'	S 21°50.2'
5	242°17.2'	S 10°27.8'	350°41.8'	S 17°17.5'	304°20.7'	S 22°24.7'	329°55.9'	S 21°50.4'
6	257°16.7'	S 10°26.6'	5°44.1'	S 17°17.6'	319°22.9'	S 22°24.7'	344°56.8'	S 21°50.6'
7	272°16.2'	S 10°25.5'	20°46.4'	S 17°17.6'	334°25.1'	S 22°24.6'	359°57.7'	S 21°50.9'
8	287°15.7'	S 10°24.3'	35°48.7'	S 17°17.6'	349°27.3'	S 22°24.6'	14°58.5'	S 21°51.1'
9	302°15.3'	S 10°23.1'	50°51.0'	S 17°17.7'	4°29.6'	S 22°24.6'	29°59.4'	S 21°51.3'
10	317°14.8'	S 10°22.0'	65°53.3'	S 17°17.7'	19°31.8'	S 22°24.6'	45°00.2'	S 21°51.5'
11	332°14.3'	S 10°20.8'	80°55.6'	S 17°17.8'	34°34.0'	S 22°24.6'	60°01.1'	S 21°51.8'
12	347°13.8'	S 10°19.6'	95°57.9'	S 17°17.8'	49°36.3'	S 22°24.6'	75°01.9'	S 21°52.0'
13	2°13.3'	S 10°18.5'	111°00.2'	S 17°17.8'	64°38.5'	S 22°24.6'	90°02.8'	S 21°52.2'
14	17°12.8'	S 10°17.3'	126°02.5'	S 17°17.9'	79°40.7'	S 22°24.6'	105°03.7'	S 21°52.4'
15	32°12.3'	S 10°16.1'	141°04.8'	S 17°17.9'	94°42.9'	S 22°24.6'	120°04.5'	S 21°52.7'
16	47°11.8'	S 10°15.0'	156°07.1'	S 17°17.9'	109°45.2'	S 22°24.6'	135°05.4'	S 21°52.9'
17	62°11.4'	S 10°13.8'	171°09.4'	S 17°18.0'	124°47.4'	S 22°24.5'	150°06.2'	S 21°53.1'
18	77°10.9'	S 10°12.6'	186°11.7'	S 17°18.0'	139°49.6'	S 22°24.5'	165°07.1'	S 21°53.3'
19	92°10.4'	S 10°11.5'	201°14.0'	S 17°18.0'	154°51.8'	S 22°24.5'	180°07.9'	S 21°53.6'
20	107°09.9'	S 10°10.3'	216°16.3'	S 17°18.1'	169°54.1'	S 22°24.5'	195°08.8'	S 21°53.8'
21	122°09.4'	S 10°09.1'	231°18.7'	S 17°18.1'	184°56.3'	S 22°24.5'	210°09.7'	S 21°54.0'
22	137°08.9'	S 10°08.0'	246°21.0'	S 17°18.1'	199°58.5'	S 22°24.5'	225°10.5'	S 21°54.2'
23	152°08.5'	S 10°06.8'	261°23.3'	S 17°18.2'	215°00.8'	S 22°24.5'	240°11.4'	S 21°54.4'

Sat Feb 17, 2018 UTC

UTC	Venus -3.8		Jupiter -1.9		Saturn +0.6		Mars +1.0	
	v = -0.5' d = 1.2'		v = 2.3' d = 0.0'		v = 2.2' d = 0.0'		v = 0.9' d = 0.2'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	167°08.0'	S 10°05.6'	276°25.6'	S 17°18.2'	230°03.0'	S 22°24.5'	255°12.2'	S 21°54.7'
1	182°07.5'	S 10°04.5'	291°27.9'	S 17°18.2'	245°05.2'	S 22°24.5'	270°13.1'	S 21°54.9'
2	197°07.0'	S 10°03.3'	306°30.2'	S 17°18.2'	260°07.4'	S 22°24.5'	285°13.9'	S 21°55.1'
3	212°06.5'	S 10°02.1'	321°32.5'	S 17°18.3'	275°09.7'	S 22°24.4'	300°14.8'	S 21°55.3'
4	227°06.1'	S 10°00.9'	336°34.8'	S 17°18.3'	290°11.9'	S 22°24.4'	315°15.7'	S 21°55.5'
5	242°05.6'	S 9°59.8'	351°37.1'	S 17°18.3'	305°14.1'	S 22°24.4'	330°16.5'	S 21°55.8'
6	257°05.1'	S 9°58.6'	6°39.4'	S 17°18.4'	320°16.4'	S 22°24.4'	345°17.4'	S 21°56.0'
7	272°04.6'	S 9°57.4'	21°41.7'	S 17°18.4'	335°18.6'	S 22°24.4'	0°18.2'	S 21°56.2'
8	287°04.1'	S 9°56.3'	36°44.0'	S 17°18.4'	350°20.8'	S 22°24.4'	15°19.1'	S 21°56.4'
9	302°03.7'	S 9°55.1'	51°46.3'	S 17°18.5'	5°23.1'	S 22°24.4'	30°19.9'	S 21°56.6'
10	317°03.2'	S 9°53.9'	66°48.7'	S 17°18.5'	20°25.3'	S 22°24.4'	45°20.8'	S 21°56.9'
11	332°02.7'	S 9°52.7'	81°51.0'	S 17°18.5'	35°27.5'	S 22°24.4'	60°21.7'	S 21°57.1'
12	347°02.2'	S 9°51.6'	96°53.3'	S 17°18.6'	50°29.7'	S 22°24.4'	75°22.5'	S 21°57.3'
13	2°01.8'	S 9°50.4'	111°55.6'	S 17°18.6'	65°32.0'	S 22°24.3'	90°23.4'	S 21°57.5'
14	17°01.3'	S 9°49.2'	126°57.9'	S 17°18.6'	80°34.2'	S 22°24.3'	105°24.2'	S 21°57.7'
15	32°00.8'	S 9°48.0'	142°00.2'	S 17°18.7'	95°36.4'	S 22°24.3'	120°25.1'	S 21°57.9'
16	47°00.3'	S 9°46.8'	157°02.5'	S 17°18.7'	110°38.7'	S 22°24.3'	135°25.9'	S 21°58.2'
17	61°59.9'	S 9°45.7'	172°04.8'	S 17°18.7'	125°40.9'	S 22°24.3'	150°26.8'	S 21°58.4'
18	76°59.4'	S 9°44.5'	187°07.1'	S 17°18.8'	140°43.1'	S 22°24.3'	165°27.7'	S 21°58.6'
19	91°58.9'	S 9°43.3'	202°09.4'	S 17°18.8'	155°45.4'	S 22°24.3'	180°28.5'	S 21°58.8'
20	106°58.4'	S 9°42.1'	217°11.8'	S 17°18.8'	170°47.6'	S 22°24.3'	195°29.4'	S 21°59.0'
21	121°58.0'	S 9°40.9'	232°14.1'	S 17°18.9'	185°49.8'	S 22°24.3'	210°30.2'	S 21°59.2'
22	136°57.5'	S 9°39.8'	247°16.4'	S 17°18.9'	200°52.1'	S 22°24.3'	225°31.1'	S 21°59.5'
23	151°57.0'	S 9°38.6'	262°18.7'	S 17°18.9'	215°54.3'	S 22°24.2'	240°31.9'	S 21°59.7'

Sun Feb 18, 2018 UTC

UTC	Venus -3.8		Jupiter -1.9		Saturn +0.6		Mars +1.0	
	v = -0.5' d = 1.2'		v = 2.3' d = 0.0'		v = 2.2' d = 0.0'		v = 0.9' d = 0.2'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	166°56.5'	S 9°37.4'	277°21.0'	S 17°18.9'	230°56.5'	S 22°24.2'	255°32.8'	S 21°59.9'
1	181°56.1'	S 9°36.2'	292°23.3'	S 17°19.0'	245°58.7'	S 22°24.2'	270°33.7'	S 22°00.1'
2	196°55.6'	S 9°35.0'	307°25.6'	S 17°19.0'	261°01.0'	S 22°24.2'	285°34.5'	S 22°00.3'
3	211°55.1'	S 9°33.9'	322°28.0'	S 17°19.0'	276°03.2'	S 22°24.2'	300°35.4'	S 22°00.5'
4	226°54.7'	S 9°32.7'	337°30.3'	S 17°19.1'	291°05.4'	S 22°24.2'	315°36.2'	S 22°00.7'
5	241°54.2'	S 9°31.5'	352°32.6'	S 17°19.1'	306°07.7'	S 22°24.2'	330°37.1'	S 22°01.0'
6	256°53.7'	S 9°30.3'	7°34.9'	S 17°19.1'	321°09.9'	S 22°24.2'	345°38.0'	S 22°01.2'
7	271°53.2'	S 9°29.1'	22°37.2'	S 17°19.2'	336°12.1'	S 22°24.2'	0°38.8'	S 22°01.4'
8	286°52.8'	S 9°27.9'	37°39.5'	S 17°19.2'	351°14.4'	S 22°24.1'	15°39.7'	S 22°01.6'
9	301°52.3'	S 9°26.8'	52°41.8'	S 17°19.2'	6°16.6'	S 22°24.1'	30°40.5'	S 22°01.8'
10	316°51.8'	S 9°25.6'	67°44.2'	S 17°19.2'	21°18.8'	S 22°24.1'	45°41.4'	S 22°02.0'
11	331°51.4'	S 9°24.4'	82°46.5'	S 17°19.3'	36°21.1'	S 22°24.1'	60°42.2'	S 22°02.2'
12	346°50.9'	S 9°23.2'	97°48.8'	S 17°19.3'	51°23.3'	S 22°24.1'	75°43.1'	S 22°02.5'
13	1°50.4'	S 9°22.0'	112°51.1'	S 17°19.3'	66°25.5'	S 22°24.1'	90°44.0'	S 22°02.7'
14	16°50.0'	S 9°20.8'	127°53.4'	S 17°19.4'	81°27.8'	S 22°24.1'	105°44.8'	S 22°02.9'
15	31°49.5'	S 9°19.6'	142°55.8'	S 17°19.4'	96°30.0'	S 22°24.1'	120°45.7'	S 22°03.1'
16	46°49.0'	S 9°18.5'	157°58.1'	S 17°19.4'	111°32.2'	S 22°24.1'	135°46.5'	S 22°03.3'
17	61°48.6'	S 9°17.3'	173°00.4'	S 17°19.5'	126°34.5'	S 22°24.1'	150°47.4'	S 22°03.5'
18	76°48.1'	S 9°16.1'	188°02.7'	S 17°19.5'	141°36.7'	S 22°24.0'	165°48.2'	S 22°03.7'
19	91°47.6'	S 9°14.9'	203°05.0'	S 17°19.5'	156°38.9'	S 22°24.0'	180°49.1'	S 22°03.9'
20	106°47.2'	S 9°13.7'	218°07.4'	S 17°19.5'	171°41.2'	S 22°24.0'	195°50.0'	S 22°04.1'
21	121°46.7'	S 9°12.5'	233°09.7'	S 17°19.6'	186°43.4'	S 22°24.0'	210°50.8'	S 22°04.3'
22	136°46.2'	S 9°11.3'	248°12.0'	S 17°19.6'	201°45.6'	S 22°24.0'	225°51.7'	S 22°04.6'
23	151°45.8'	S 9°10.1'	263°14.3'	S 17°19.6'	216°47.9'	S 22°24.0'	240°52.5'	S 22°04.8'

Mon Feb 19, 2018 UTC

UTC	Venus -3.8		Jupiter -1.9		Saturn +0.6		Mars +0.9	
	v = -0.5' d = 1.2'		v = 2.3' d = 0.0'		v = 2.2' d = 0.0'		v = 0.9' d = 0.2'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	166°45.3'	S 9°08.9'	278°16.6'	S 17°19.7'	231°50.1'	S 22°24.0'	255°53.4'	S 22°05.0'
1	181°44.9'	S 9°07.7'	293°19.0'	S 17°19.7'	246°52.4'	S 22°24.0'	270°54.2'	S 22°05.2'
2	196°44.4'	S 9°06.5'	308°21.3'	S 17°19.7'	261°54.6'	S 22°24.0'	285°55.1'	S 22°05.4'
3	211°43.9'	S 9°05.4'	323°23.6'	S 17°19.7'	276°56.8'	S 22°24.0'	300°56.0'	S 22°05.6'
4	226°43.5'	S 9°04.2'	338°25.9'	S 17°19.8'	291°59.1'	S 22°23.9'	315°56.8'	S 22°05.8'
5	241°43.0'	S 9°03.0'	353°28.2'	S 17°19.8'	307°01.3'	S 22°23.9'	330°57.7'	S 22°06.0'
6	256°42.6'	S 9°01.8'	8°30.6'	S 17°19.8'	322°03.5'	S 22°23.9'	345°58.5'	S 22°06.2'
7	271°42.1'	S 9°00.6'	23°32.9'	S 17°19.9'	337°05.8'	S 22°23.9'	0°59.4'	S 22°06.4'
8	286°41.6'	S 8°59.4'	38°35.2'	S 17°19.9'	352°08.0'	S 22°23.9'	16°00.3'	S 22°06.6'
9	301°41.2'	S 8°58.2'	53°37.5'	S 17°19.9'	7°10.2'	S 22°23.9'	31°01.1'	S 22°06.8'
10	316°40.7'	S 8°57.0'	68°39.9'	S 17°19.9'	22°12.5'	S 22°23.9'	46°02.0'	S 22°07.0'
11	331°40.3'	S 8°55.8'	83°42.2'	S 17°20.0'	37°14.7'	S 22°23.9'	61°02.8'	S 22°07.3'
12	346°39.8'	S 8°54.6'	98°44.5'	S 17°20.0'	52°16.9'	S 22°23.9'	76°03.7'	S 22°07.5'
13	1°39.3'	S 8°53.4'	113°46.8'	S 17°20.0'	67°19.2'	S 22°23.9'	91°04.5'	S 22°07.7'
14	16°38.9'	S 8°52.2'	128°49.2'	S 17°20.1'	82°21.4'	S 22°23.8'	106°05.4'	S 22°07.9'
15	31°38.4'	S 8°51.0'	143°51.5'	S 17°20.1'	97°23.7'	S 22°23.8'	121°06.3'	S 22°08.1'
16	46°38.0'	S 8°49.8'	158°53.8'	S 17°20.1'	112°25.9'	S 22°23.8'	136°07.1'	S 22°08.3'
17	61°37.5'	S 8°48.6'	173°56.1'	S 17°20.1'	127°28.1'	S 22°23.8'	151°08.0'	S 22°08.5'
18	76°37.0'	S 8°47.4'	188°58.5'	S 17°20.2'	142°30.4'	S 22°23.8'	166°08.8'	S 22°08.7'
19	91°36.6'	S 8°46.2'	204°00.8'	S 17°20.2'	157°32.6'	S 22°23.8'	181°09.7'	S 22°08.9'
20	106°36.1'	S 8°45.0'	219°03.1'	S 17°20.2'	172°34.8'	S 22°23.8'	196°10.5'	S 22°09.1'
21	121°35.7'	S 8°43.8'	234°05.4'	S 17°20.3'	187°37.1'	S 22°23.8'	211°11.4'	S 22°09.3'
22	136°35.2'	S 8°42.6'	249°07.8'	S 17°20.3'	202°39.3'	S 22°23.8'	226°12.3'	S 22°09.5'
23	151°34.8'	S 8°41.4'	264°10.1'	S 17°20.3'	217°41.5'	S 22°23.7'	241°13.1'	S 22°09.7'

Tue Feb 20, 2018 UTC

UTC	Venus -3.8		Jupiter -1.9		Saturn +0.6		Mars +0.9	
	v = -0.4' d = 1.2'		v = 2.3' d = 0.0'		v = 2.2' d = 0.0'		v = 0.9' d = 0.2'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	166°34.3'	S 8°40.2'	279°12.4'	S 17°20.3'	232°43.8'	S 22°23.7'	256°14.0'	S 22°09.9'
1	181°33.9'	S 8°39.0'	294°14.8'	S 17°20.4'	247°46.0'	S 22°23.7'	271°14.8'	S 22°10.1'
2	196°33.4'	S 8°37.8'	309°17.1'	S 17°20.4'	262°48.3'	S 22°23.7'	286°15.7'	S 22°10.3'
3	211°33.0'	S 8°36.6'	324°19.4'	S 17°20.4'	277°50.5'	S 22°23.7'	301°16.6'	S 22°10.5'
4	226°32.5'	S 8°35.4'	339°21.7'	S 17°20.4'	292°52.7'	S 22°23.7'	316°17.4'	S 22°10.7'
5	241°32.1'	S 8°34.2'	354°24.1'	S 17°20.5'	307°55.0'	S 22°23.7'	331°18.3'	S 22°10.9'
6	256°31.6'	S 8°33.0'	9°26.4'	S 17°20.5'	322°57.2'	S 22°23.7'	346°19.1'	S 22°11.1'
7	271°31.1'	S 8°31.8'	24°28.7'	S 17°20.5'	337°59.5'	S 22°23.7'	1°20.0'	S 22°11.3'
8	286°30.7'	S 8°30.6'	39°31.1'	S 17°20.5'	353°01.7'	S 22°23.7'	16°20.8'	S 22°11.5'
9	301°30.2'	S 8°29.4'	54°33.4'	S 17°20.6'	8°03.9'	S 22°23.6'	31°21.7'	S 22°11.7'
10	316°29.8'	S 8°28.2'	69°35.7'	S 17°20.6'	23°06.2'	S 22°23.6'	46°22.6'	S 22°11.9'
11	331°29.3'	S 8°27.0'	84°38.1'	S 17°20.6'	38°08.4'	S 22°23.6'	61°23.4'	S 22°12.1'
12	346°28.9'	S 8°25.8'	99°40.4'	S 17°20.6'	53°10.6'	S 22°23.6'	76°24.3'	S 22°12.3'
13	1°28.4'	S 8°24.6'	114°42.7'	S 17°20.7'	68°12.9'	S 22°23.6'	91°25.1'	S 22°12.5'
14	16°28.0'	S 8°23.4'	129°45.1'	S 17°20.7'	83°15.1'	S 22°23.6'	106°26.0'	S 22°12.7'
15	31°27.5'	S 8°22.2'	144°47.4'	S 17°20.7'	98°17.4'	S 22°23.6'	121°26.8'	S 22°12.9'
16	46°27.1'	S 8°20.9'	159°49.7'	S 17°20.8'	113°19.6'	S 22°23.6'	136°27.7'	S 22°13.1'
17	61°26.7'	S 8°19.7'	174°52.1'	S 17°20.8'	128°21.8'	S 22°23.6'	151°28.6'	S 22°13.3'
18	76°26.2'	S 8°18.5'	189°54.4'	S 17°20.8'	143°24.1'	S 22°23.6'	166°29.4'	S 22°13.5'
19	91°25.8'	S 8°17.3'	204°56.7'	S 17°20.8'	158°26.3'	S 22°23.5'	181°30.3'	S 22°13.7'
20	106°25.3'	S 8°16.1'	219°59.1'	S 17°20.9'	173°28.6'	S 22°23.5'	196°31.1'	S 22°13.9'
21	121°24.9'	S 8°14.9'	235°01.4'	S 17°20.9'	188°30.8'	S 22°23.5'	211°32.0'	S 22°14.1'
22	136°24.4'	S 8°13.7'	250°03.7'	S 17°20.9'	203°33.0'	S 22°23.5'	226°32.9'	S 22°14.3'
23	151°24.0'	S 8°12.5'	265°06.1'	S 17°20.9'	218°35.3'	S 22°23.5'	241°33.7'	S 22°14.5'

Wed Feb 21, 2018 UTC

UTC	Venus -3.8		Jupiter -2.0		Saturn +0.6		Mars +0.9	
	v = -0.4' d = 1.2'		v = 2.3' d = 0.0'		v = 2.2' d = 0.0'		v = 0.9' d = 0.2'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	166°23.5'	S 8°11.3'	280°08.4'	S 17°21.0'	233°37.5'	S 22°23.5'	256°34.6'	S 22°14.7'
1	181°23.1'	S 8°10.1'	295°10.7'	S 17°21.0'	248°39.8'	S 22°23.5'	271°35.4'	S 22°14.9'
2	196°22.6'	S 8°08.9'	310°13.1'	S 17°21.0'	263°42.0'	S 22°23.5'	286°36.3'	S 22°15.1'
3	211°22.2'	S 8°07.6'	325°15.4'	S 17°21.0'	278°44.3'	S 22°23.5'	301°37.2'	S 22°15.3'
4	226°21.7'	S 8°06.4'	340°17.8'	S 17°21.1'	293°46.5'	S 22°23.4'	316°38.0'	S 22°15.5'
5	241°21.3'	S 8°05.2'	355°20.1'	S 17°21.1'	308°48.7'	S 22°23.4'	331°38.9'	S 22°15.7'
6	256°20.9'	S 8°04.0'	10°22.4'	S 17°21.1'	323°51.0'	S 22°23.4'	346°39.7'	S 22°15.9'
7	271°20.4'	S 8°02.8'	25°24.8'	S 17°21.1'	338°53.2'	S 22°23.4'	1°40.6'	S 22°16.1'
8	286°20.0'	S 8°01.6'	40°27.1'	S 17°21.2'	353°55.5'	S 22°23.4'	16°41.4'	S 22°16.3'
9	301°19.5'	S 8°00.4'	55°29.5'	S 17°21.2'	8°57.7'	S 22°23.4'	31°42.3'	S 22°16.4'
10	316°19.1'	S 7°59.2'	70°31.8'	S 17°21.2'	23°59.9'	S 22°23.4'	46°43.2'	S 22°16.6'
11	331°18.6'	S 7°57.9'	85°34.1'	S 17°21.2'	39°02.2'	S 22°23.4'	61°44.0'	S 22°16.8'
12	346°18.2'	S 7°56.7'	100°36.5'	S 17°21.2'	54°04.4'	S 22°23.4'	76°44.9'	S 22°17.0'
13	1°17.8'	S 7°55.5'	115°38.8'	S 17°21.3'	69°06.7'	S 22°23.4'	91°45.7'	S 22°17.2'
14	16°17.3'	S 7°54.3'	130°41.1'	S 17°21.3'	84°08.9'	S 22°23.3'	106°46.6'	S 22°17.4'
15	31°16.9'	S 7°53.1'	145°43.5'	S 17°21.3'	99°11.2'	S 22°23.3'	121°47.5'	S 22°17.6'
16	46°16.4'	S 7°51.9'	160°45.8'	S 17°21.3'	114°13.4'	S 22°23.3'	136°48.3'	S 22°17.8'
17	61°16.0'	S 7°50.6'	175°48.2'	S 17°21.4'	129°15.6'	S 22°23.3'	151°49.2'	S 22°18.0'
18	76°15.6'	S 7°49.4'	190°50.5'	S 17°21.4'	144°17.9'	S 22°23.3'	166°50.0'	S 22°18.2'
19	91°15.1'	S 7°48.2'	205°52.9'	S 17°21.4'	159°20.1'	S 22°23.3'	181°50.9'	S 22°18.4'
20	106°14.7'	S 7°47.0'	220°55.2'	S 17°21.4'	174°22.4'	S 22°23.3'	196°51.8'	S 22°18.6'
21	121°14.2'	S 7°45.8'	235°57.5'	S 17°21.5'	189°24.6'	S 22°23.3'	211°52.6'	S 22°18.8'
22	136°13.8'	S 7°44.6'	250°59.9'	S 17°21.5'	204°26.9'	S 22°23.3'	226°53.5'	S 22°18.9'
23	151°13.4'	S 7°43.3'	266°02.2'	S 17°21.5'	219°29.1'	S 22°23.3'	241°54.3'	S 22°19.1'

Thu Feb 22, 2018 UTC

UTC	Venus -3.8		Jupiter -2.0		Saturn +0.6		Mars +0.9	
	v = -0.4' d = 1.2'		v = 2.3' d = 0.0'		v = 2.2' d = 0.0'		v = 0.9' d = 0.2'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	166°12.9'	S 7°42.1'	281°04.6'	S 17°21.5'	234°31.3'	S 22°23.2'	256°55.2'	S 22°19.3'
1	181°12.5'	S 7°40.9'	296°06.9'	S 17°21.6'	249°33.6'	S 22°23.2'	271°56.0'	S 22°19.5'
2	196°12.1'	S 7°39.7'	311°09.3'	S 17°21.6'	264°35.8'	S 22°23.2'	286°56.9'	S 22°19.7'
3	211°11.6'	S 7°38.5'	326°11.6'	S 17°21.6'	279°38.1'	S 22°23.2'	301°57.8'	S 22°19.9'
4	226°11.2'	S 7°37.2'	341°13.9'	S 17°21.6'	294°40.3'	S 22°23.2'	316°58.6'	S 22°20.1'
5	241°10.7'	S 7°36.0'	356°16.3'	S 17°21.6'	309°42.6'	S 22°23.2'	331°59.5'	S 22°20.3'
6	256°10.3'	S 7°34.8'	11°18.6'	S 17°21.7'	324°44.8'	S 22°23.2'	347°00.3'	S 22°20.5'
7	271°09.9'	S 7°33.6'	26°21.0'	S 17°21.7'	339°47.1'	S 22°23.2'	2°01.2'	S 22°20.7'
8	286°09.4'	S 7°32.4'	41°23.3'	S 17°21.7'	354°49.3'	S 22°23.2'	17°02.1'	S 22°20.8'
9	301°09.0'	S 7°31.1'	56°25.7'	S 17°21.7'	9°51.6'	S 22°23.1'	32°02.9'	S 22°21.0'
10	316°08.6'	S 7°29.9'	71°28.0'	S 17°21.8'	24°53.8'	S 22°23.1'	47°03.8'	S 22°21.2'
11	331°08.1'	S 7°28.7'	86°30.4'	S 17°21.8'	39°56.0'	S 22°23.1'	62°04.6'	S 22°21.4'
12	346°07.7'	S 7°27.5'	101°32.7'	S 17°21.8'	54°58.3'	S 22°23.1'	77°05.5'	S 22°21.6'
13	1°07.3'	S 7°26.2'	116°35.1'	S 17°21.8'	70°00.5'	S 22°23.1'	92°06.4'	S 22°21.8'
14	16°06.8'	S 7°25.0'	131°37.4'	S 17°21.8'	85°02.8'	S 22°23.1'	107°07.2'	S 22°22.0'
15	31°06.4'	S 7°23.8'	146°39.8'	S 17°21.9'	100°05.0'	S 22°23.1'	122°08.1'	S 22°22.1'
16	46°06.0'	S 7°22.6'	161°42.1'	S 17°21.9'	115°07.3'	S 22°23.1'	137°08.9'	S 22°22.3'
17	61°05.5'	S 7°21.3'	176°44.5'	S 17°21.9'	130°09.5'	S 22°23.1'	152°09.8'	S 22°22.5'
18	76°05.1'	S 7°20.1'	191°46.8'	S 17°21.9'	145°11.8'	S 22°23.1'	167°10.7'	S 22°22.7'
19	91°04.7'	S 7°18.9'	206°49.2'	S 17°22.0'	160°14.0'	S 22°23.0'	182°11.5'	S 22°22.9'
20	106°04.2'	S 7°17.7'	221°51.5'	S 17°22.0'	175°16.3'	S 22°23.0'	197°12.4'	S 22°23.1'
21	121°03.8'	S 7°16.4'	236°53.9'	S 17°22.0'	190°18.5'	S 22°23.0'	212°13.2'	S 22°23.3'
22	136°03.4'	S 7°15.2'	251°56.2'	S 17°22.0'	205°20.7'	S 22°23.0'	227°14.1'	S 22°23.4'
23	151°03.0'	S 7°14.0'	266°58.6'	S 17°22.0'	220°23.0'	S 22°23.0'	242°15.0'	S 22°23.6'

Fri Feb 23, 2018 UTC

UTC	Venus -3.8		Jupiter -2.0		Saturn +0.6		Mars +0.9	
	v = -0.4' d = 1.2'		v = 2.4' d = 0.0'		v = 2.2' d = 0.0'		v = 0.9' d = 0.2'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	166°02.5'	S 7°12.8'	282°00.9'	S 17°22.1'	235°25.2'	S 22°23.0'	257°15.8'	S 22°23.8'
1	181°02.1'	S 7°11.5'	297°03.3'	S 17°22.1'	250°27.5'	S 22°23.0'	272°16.7'	S 22°24.0'
2	196°01.7'	S 7°10.3'	312°05.6'	S 17°22.1'	265°29.7'	S 22°23.0'	287°17.5'	S 22°24.2'
3	211°01.2'	S 7°09.1'	327°08.0'	S 17°22.1'	280°32.0'	S 22°23.0'	302°18.4'	S 22°24.4'
4	226°00.8'	S 7°07.8'	342°10.3'	S 17°22.1'	295°34.2'	S 22°23.0'	317°19.2'	S 22°24.6'
5	241°00.4'	S 7°06.6'	357°12.7'	S 17°22.2'	310°36.5'	S 22°22.9'	332°20.1'	S 22°24.7'
6	255°59.9'	S 7°05.4'	12°15.0'	S 17°22.2'	325°38.7'	S 22°22.9'	347°21.0'	S 22°24.9'
7	270°59.5'	S 7°04.2'	27°17.4'	S 17°22.2'	340°41.0'	S 22°22.9'	2°21.8'	S 22°25.1'
8	285°59.1'	S 7°02.9'	42°19.7'	S 17°22.2'	355°43.2'	S 22°22.9'	17°22.7'	S 22°25.3'
9	300°58.7'	S 7°01.7'	57°22.1'	S 17°22.2'	10°45.5'	S 22°22.9'	32°23.5'	S 22°25.5'
10	315°58.2'	S 7°00.5'	72°24.4'	S 17°22.3'	25°47.7'	S 22°22.9'	47°24.4'	S 22°25.6'
11	330°57.8'	S 6°59.2'	87°26.8'	S 17°22.3'	40°50.0'	S 22°22.9'	62°25.3'	S 22°25.8'
12	345°57.4'	S 6°58.0'	102°29.2'	S 17°22.3'	55°52.2'	S 22°22.9'	77°26.1'	S 22°26.0'
13	0°57.0'	S 6°56.8'	117°31.5'	S 17°22.3'	70°54.5'	S 22°22.9'	92°27.0'	S 22°26.2'
14	15°56.5'	S 6°55.5'	132°33.9'	S 17°22.4'	85°56.7'	S 22°22.8'	107°27.8'	S 22°26.4'
15	30°56.1'	S 6°54.3'	147°36.2'	S 17°22.4'	100°59.0'	S 22°22.8'	122°28.7'	S 22°26.5'
16	45°55.7'	S 6°53.1'	162°38.6'	S 17°22.4'	116°01.2'	S 22°22.8'	137°29.6'	S 22°26.7'
17	60°55.3'	S 6°51.8'	177°40.9'	S 17°22.4'	131°03.5'	S 22°22.8'	152°30.4'	S 22°26.9'
18	75°54.8'	S 6°50.6'	192°43.3'	S 17°22.4'	146°05.7'	S 22°22.8'	167°31.3'	S 22°27.1'
19	90°54.4'	S 6°49.4'	207°45.6'	S 17°22.5'	161°08.0'	S 22°22.8'	182°32.1'	S 22°27.3'
20	105°54.0'	S 6°48.1'	222°48.0'	S 17°22.5'	176°10.2'	S 22°22.8'	197°33.0'	S 22°27.4'
21	120°53.6'	S 6°46.9'	237°50.4'	S 17°22.5'	191°12.5'	S 22°22.8'	212°33.9'	S 22°27.6'
22	135°53.1'	S 6°45.7'	252°52.7'	S 17°22.5'	206°14.7'	S 22°22.8'	227°34.7'	S 22°27.8'
23	150°52.7'	S 6°44.4'	267°55.1'	S 17°22.5'	221°17.0'	S 22°22.8'	242°35.6'	S 22°28.0'

Sat Feb 24, 2018 UTC

UTC	Venus -3.8		Jupiter -2.0		Saturn +0.6		Mars +0.9	
	v = -0.4' d = 1.2'		v = 2.4' d = 0.0'		v = 2.3' d = 0.0'		v = 0.9' d = 0.2'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	165°52.3'	S 6°43.2'	282°57.4'	S 17°22.5'	236°19.2'	S 22°22.7'	257°36.4'	S 22°28.2'
1	180°51.9'	S 6°42.0'	297°59.8'	S 17°22.6'	251°21.5'	S 22°22.7'	272°37.3'	S 22°28.3'
2	195°51.5'	S 6°40.7'	313°02.2'	S 17°22.6'	266°23.7'	S 22°22.7'	287°38.2'	S 22°28.5'
3	210°51.0'	S 6°39.5'	328°04.5'	S 17°22.6'	281°26.0'	S 22°22.7'	302°39.0'	S 22°28.7'
4	225°50.6'	S 6°38.3'	343°06.9'	S 17°22.6'	296°28.2'	S 22°22.7'	317°39.9'	S 22°28.9'
5	240°50.2'	S 6°37.0'	358°09.2'	S 17°22.6'	311°30.5'	S 22°22.7'	332°40.8'	S 22°29.0'
6	255°49.8'	S 6°35.8'	13°11.6'	S 17°22.7'	326°32.7'	S 22°22.7'	347°41.6'	S 22°29.2'
7	270°49.3'	S 6°34.6'	28°14.0'	S 17°22.7'	341°35.0'	S 22°22.7'	2°42.5'	S 22°29.4'
8	285°48.9'	S 6°33.3'	43°16.3'	S 17°22.7'	356°37.2'	S 22°22.7'	17°43.3'	S 22°29.6'
9	300°48.5'	S 6°32.1'	58°18.7'	S 17°22.7'	11°39.5'	S 22°22.7'	32°44.2'	S 22°29.8'
10	315°48.1'	S 6°30.8'	73°21.0'	S 17°22.7'	26°41.7'	S 22°22.6'	47°45.1'	S 22°29.9'
11	330°47.7'	S 6°29.6'	88°23.4'	S 17°22.8'	41°44.0'	S 22°22.6'	62°45.9'	S 22°30.1'
12	345°47.3'	S 6°28.4'	103°25.8'	S 17°22.8'	56°46.2'	S 22°22.6'	77°46.8'	S 22°30.3'
13	0°46.8'	S 6°27.1'	118°28.1'	S 17°22.8'	71°48.5'	S 22°22.6'	92°47.6'	S 22°30.5'
14	15°46.4'	S 6°25.9'	133°30.5'	S 17°22.8'	86°50.7'	S 22°22.6'	107°48.5'	S 22°30.6'
15	30°46.0'	S 6°24.7'	148°32.9'	S 17°22.8'	101°53.0'	S 22°22.6'	122°49.4'	S 22°30.8'
16	45°45.6'	S 6°23.4'	163°35.2'	S 17°22.8'	116°55.2'	S 22°22.6'	137°50.2'	S 22°31.0'
17	60°45.2'	S 6°22.2'	178°37.6'	S 17°22.9'	131°57.5'	S 22°22.6'	152°51.1'	S 22°31.1'
18	75°44.7'	S 6°20.9'	193°40.0'	S 17°22.9'	146°59.7'	S 22°22.6'	167°51.9'	S 22°31.3'
19	90°44.3'	S 6°19.7'	208°42.3'	S 17°22.9'	162°02.0'	S 22°22.5'	182°52.8'	S 22°31.5'
20	105°43.9'	S 6°18.5'	223°44.7'	S 17°22.9'	177°04.2'	S 22°22.5'	197°53.7'	S 22°31.7'
21	120°43.5'	S 6°17.2'	238°47.0'	S 17°22.9'	192°06.5'	S 22°22.5'	212°54.5'	S 22°31.8'
22	135°43.1'	S 6°16.0'	253°49.4'	S 17°23.0'	207°08.8'	S 22°22.5'	227°55.4'	S 22°32.0'
23	150°42.7'	S 6°14.7'	268°51.8'	S 17°23.0'	222°11.0'	S 22°22.5'	242°56.2'	S 22°32.2'

Sun Feb 25, 2018 UTC

UTC	Venus -3.8		Jupiter -2.0		Saturn +0.6		Mars +0.9	
	v = -0.4' d = 1.2'		v = 2.4' d = 0.0'		v = 2.3' d = 0.0'		v = 0.9' d = 0.2'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	165°42.2'	S 6°13.5'	283°54.1'	S 17°23.0'	237°13.3'	S 22°22.5'	257°57.1'	S 22°32.4'
1	180°41.8'	S 6°12.2'	298°56.5'	S 17°23.0'	252°15.5'	S 22°22.5'	272°58.0'	S 22°32.5'
2	195°41.4'	S 6°11.0'	313°58.9'	S 17°23.0'	267°17.8'	S 22°22.5'	287°58.8'	S 22°32.7'
3	210°41.0'	S 6°09.8'	329°01.2'	S 17°23.0'	282°20.0'	S 22°22.5'	302°59.7'	S 22°32.9'
4	225°40.6'	S 6°08.5'	344°03.6'	S 17°23.1'	297°22.3'	S 22°22.5'	318°00.5'	S 22°33.0'
5	240°40.2'	S 6°07.3'	359°06.0'	S 17°23.1'	312°24.5'	S 22°22.4'	333°01.4'	S 22°33.2'
6	255°39.8'	S 6°06.0'	14°08.4'	S 17°23.1'	327°26.8'	S 22°22.4'	348°02.3'	S 22°33.4'
7	270°39.3'	S 6°04.8'	29°10.7'	S 17°23.1'	342°29.0'	S 22°22.4'	3°03.1'	S 22°33.6'
8	285°38.9'	S 6°03.5'	44°13.1'	S 17°23.1'	357°31.3'	S 22°22.4'	18°04.0'	S 22°33.7'
9	300°38.5'	S 6°02.3'	59°15.5'	S 17°23.1'	12°33.5'	S 22°22.4'	33°04.9'	S 22°33.9'
10	315°38.1'	S 6°01.1'	74°17.8'	S 17°23.2'	27°35.8'	S 22°22.4'	48°05.7'	S 22°34.1'
11	330°37.7'	S 5°59.8'	89°20.2'	S 17°23.2'	42°38.1'	S 22°22.4'	63°06.6'	S 22°34.2'
12	345°37.3'	S 5°58.6'	104°22.6'	S 17°23.2'	57°40.3'	S 22°22.4'	78°07.4'	S 22°34.4'
13	0°36.9'	S 5°57.3'	119°24.9'	S 17°23.2'	72°42.6'	S 22°22.4'	93°08.3'	S 22°34.6'
14	15°36.5'	S 5°56.1'	134°27.3'	S 17°23.2'	87°44.8'	S 22°22.4'	108°09.2'	S 22°34.7'
15	30°36.0'	S 5°54.8'	149°29.7'	S 17°23.2'	102°47.1'	S 22°22.3'	123°10.0'	S 22°34.9'
16	45°35.6'	S 5°53.6'	164°32.1'	S 17°23.3'	117°49.3'	S 22°22.3'	138°10.9'	S 22°35.1'
17	60°35.2'	S 5°52.3'	179°34.4'	S 17°23.3'	132°51.6'	S 22°22.3'	153°11.7'	S 22°35.2'
18	75°34.8'	S 5°51.1'	194°36.8'	S 17°23.3'	147°53.8'	S 22°22.3'	168°12.6'	S 22°35.4'
19	90°34.4'	S 5°49.8'	209°39.2'	S 17°23.3'	162°56.1'	S 22°22.3'	183°13.5'	S 22°35.6'
20	105°34.0'	S 5°48.6'	224°41.5'	S 17°23.3'	177°58.4'	S 22°22.3'	198°14.3'	S 22°35.7'
21	120°33.6'	S 5°47.3'	239°43.9'	S 17°23.3'	193°00.6'	S 22°22.3'	213°15.2'	S 22°35.9'
22	135°33.2'	S 5°46.1'	254°46.3'	S 17°23.3'	208°02.9'	S 22°22.3'	228°16.1'	S 22°36.1'
23	150°32.8'	S 5°44.8'	269°48.7'	S 17°23.4'	223°05.1'	S 22°22.3'	243°16.9'	S 22°36.2'

Mon Feb 26, 2018 UTC

UTC	Venus -3.8		Jupiter -2.0		Saturn +0.6		Mars +0.8	
	v = -0.4' d = 1.3'		v = 2.4' d = 0.0'		v = 2.3' d = 0.0'		v = 0.9' d = 0.2'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	165°32.4'	S 5°43.6'	284°51.0'	S 17°23.4'	238°07.4'	S 22°22.2'	258°17.8'	S 22°36.4'
1	180°31.9'	S 5°42.3'	299°53.4'	S 17°23.4'	253°09.6'	S 22°22.2'	273°18.6'	S 22°36.6'
2	195°31.5'	S 5°41.1'	314°55.8'	S 17°23.4'	268°11.9'	S 22°22.2'	288°19.5'	S 22°36.7'
3	210°31.1'	S 5°39.8'	329°58.2'	S 17°23.4'	283°14.2'	S 22°22.2'	303°20.4'	S 22°36.9'
4	225°30.7'	S 5°38.6'	345°00.5'	S 17°23.4'	298°16.4'	S 22°22.2'	318°21.2'	S 22°37.1'
5	240°30.3'	S 5°37.4'	0°02.9'	S 17°23.5'	313°18.7'	S 22°22.2'	333°22.1'	S 22°37.2'
6	255°29.9'	S 5°36.1'	15°05.3'	S 17°23.5'	328°20.9'	S 22°22.2'	348°22.9'	S 22°37.4'
7	270°29.5'	S 5°34.9'	30°07.7'	S 17°23.5'	343°23.2'	S 22°22.2'	3°23.8'	S 22°37.6'
8	285°29.1'	S 5°33.6'	45°10.0'	S 17°23.5'	358°25.4'	S 22°22.2'	18°24.7'	S 22°37.7'
9	300°28.7'	S 5°32.3'	60°12.4'	S 17°23.5'	13°27.7'	S 22°22.2'	33°25.5'	S 22°37.9'
10	315°28.3'	S 5°31.1'	75°14.8'	S 17°23.5'	28°30.0'	S 22°22.1'	48°26.4'	S 22°38.1'
11	330°27.9'	S 5°29.8'	90°17.2'	S 17°23.5'	43°32.2'	S 22°22.1'	63°27.3'	S 22°38.2'
12	345°27.5'	S 5°28.6'	105°19.6'	S 17°23.6'	58°34.5'	S 22°22.1'	78°28.1'	S 22°38.4'
13	0°27.1'	S 5°27.3'	120°21.9'	S 17°23.6'	73°36.7'	S 22°22.1'	93°29.0'	S 22°38.5'
14	15°26.7'	S 5°26.1'	135°24.3'	S 17°23.6'	88°39.0'	S 22°22.1'	108°29.8'	S 22°38.7'
15	30°26.3'	S 5°24.8'	150°26.7'	S 17°23.6'	103°41.3'	S 22°22.1'	123°30.7'	S 22°38.9'
16	45°25.8'	S 5°23.6'	165°29.1'	S 17°23.6'	118°43.5'	S 22°22.1'	138°31.6'	S 22°39.0'
17	60°25.4'	S 5°22.3'	180°31.5'	S 17°23.6'	133°45.8'	S 22°22.1'	153°32.4'	S 22°39.2'
18	75°25.0'	S 5°21.1'	195°33.8'	S 17°23.6'	148°48.0'	S 22°22.1'	168°33.3'	S 22°39.4'
19	90°24.6'	S 5°19.8'	210°36.2'	S 17°23.7'	163°50.3'	S 22°22.1'	183°34.2'	S 22°39.5'
20	105°24.2'	S 5°18.6'	225°38.6'	S 17°23.7'	178°52.6'	S 22°22.0'	198°35.0'	S 22°39.7'
21	120°23.8'	S 5°17.3'	240°41.0'	S 17°23.7'	193°54.8'	S 22°22.0'	213°35.9'	S 22°39.8'
22	135°23.4'	S 5°16.1'	255°43.4'	S 17°23.7'	208°57.1'	S 22°22.0'	228°36.7'	S 22°40.0'
23	150°23.0'	S 5°14.8'	270°45.7'	S 17°23.7'	223°59.3'	S 22°22.0'	243°37.6'	S 22°40.2'

Tue Feb 27, 2018 UTC

UTC	Venus -3.8		Jupiter -2.0		Saturn +0.6		Mars +0.8	
	v = -0.4' d = 1.3'		v = 2.4' d = 0.0'		v = 2.3' d = 0.0'		v = 0.9' d = 0.2'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	165°22.6'	S 5°13.6'	285°48.1'	S 17°23.7'	239°01.6'	S 22°22.0'	258°38.5'	S 22°40.3'
1	180°22.2'	S 5°12.3'	300°50.5'	S 17°23.7'	254°03.9'	S 22°22.0'	273°39.3'	S 22°40.5'
2	195°21.8'	S 5°11.0'	315°52.9'	S 17°23.8'	269°06.1'	S 22°22.0'	288°40.2'	S 22°40.6'
3	210°21.4'	S 5°09.8'	330°55.3'	S 17°23.8'	284°08.4'	S 22°22.0'	303°41.1'	S 22°40.8'
4	225°21.0'	S 5°08.5'	345°57.6'	S 17°23.8'	299°10.6'	S 22°22.0'	318°41.9'	S 22°41.0'
5	240°20.6'	S 5°07.3'	1°00.0'	S 17°23.8'	314°12.9'	S 22°22.0'	333°42.8'	S 22°41.1'
6	255°20.2'	S 5°06.0'	16°02.4'	S 17°23.8'	329°15.2'	S 22°21.9'	348°43.6'	S 22°41.3'
7	270°19.8'	S 5°04.8'	31°04.8'	S 17°23.8'	344°17.4'	S 22°21.9'	3°44.5'	S 22°41.4'
8	285°19.4'	S 5°03.5'	46°07.2'	S 17°23.8'	359°19.7'	S 22°21.9'	18°45.4'	S 22°41.6'
9	300°19.0'	S 5°02.3'	61°09.6'	S 17°23.8'	14°21.9'	S 22°21.9'	33°46.2'	S 22°41.7'
10	315°18.6'	S 5°01.0'	76°12.0'	S 17°23.9'	29°24.2'	S 22°21.9'	48°47.1'	S 22°41.9'
11	330°18.2'	S 4°59.7'	91°14.3'	S 17°23.9'	44°26.5'	S 22°21.9'	63°48.0'	S 22°42.1'
12	345°17.8'	S 4°58.5'	106°16.7'	S 17°23.9'	59°28.7'	S 22°21.9'	78°48.8'	S 22°42.2'
13	0°17.4'	S 4°57.2'	121°19.1'	S 17°23.9'	74°31.0'	S 22°21.9'	93°49.7'	S 22°42.4'
14	15°17.0'	S 4°56.0'	136°21.5'	S 17°23.9'	89°33.2'	S 22°21.9'	108°50.6'	S 22°42.5'
15	30°16.6'	S 4°54.7'	151°23.9'	S 17°23.9'	104°35.5'	S 22°21.8'	123°51.4'	S 22°42.7'
16	45°16.2'	S 4°53.5'	166°26.3'	S 17°23.9'	119°37.8'	S 22°21.8'	138°52.3'	S 22°42.8'
17	60°15.8'	S 4°52.2'	181°28.7'	S 17°23.9'	134°40.0'	S 22°21.8'	153°53.1'	S 22°43.0'
18	75°15.4'	S 4°50.9'	196°31.0'	S 17°24.0'	149°42.3'	S 22°21.8'	168°54.0'	S 22°43.2'
19	90°15.0'	S 4°49.7'	211°33.4'	S 17°24.0'	164°44.6'	S 22°21.8'	183°54.9'	S 22°43.3'
20	105°14.6'	S 4°48.4'	226°35.8'	S 17°24.0'	179°46.8'	S 22°21.8'	198°55.7'	S 22°43.5'
21	120°14.2'	S 4°47.2'	241°38.2'	S 17°24.0'	194°49.1'	S 22°21.8'	213°56.6'	S 22°43.6'
22	135°13.8'	S 4°45.9'	256°40.6'	S 17°24.0'	209°51.3'	S 22°21.8'	228°57.5'	S 22°43.8'
23	150°13.4'	S 4°44.6'	271°43.0'	S 17°24.0'	224°53.6'	S 22°21.8'	243°58.3'	S 22°43.9'

Wed Feb 28, 2018 UTC

UTC	Venus -3.8		Jupiter -2.0		Saturn +0.6		Mars +0.8	
	v = -0.4' d = 1.3'		v = 2.4' d = 0.0'		v = 2.3' d = 0.0'		v = 0.9' d = 0.2'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	165°13.0'	S 4°43.4'	286°45.4'	S 17°24.0'	239°55.9'	S 22°21.8'	258°59.2'	S 22°44.1'
1	180°12.6'	S 4°42.1'	301°47.8'	S 17°24.0'	254°58.1'	S 22°21.7'	274°00.0'	S 22°44.2'
2	195°12.2'	S 4°40.9'	316°50.2'	S 17°24.1'	270°00.4'	S 22°21.7'	289°00.9'	S 22°44.4'
3	210°11.8'	S 4°39.6'	331°52.6'	S 17°24.1'	285°02.7'	S 22°21.7'	304°01.8'	S 22°44.5'
4	225°11.4'	S 4°38.3'	346°54.9'	S 17°24.1'	300°04.9'	S 22°21.7'	319°02.6'	S 22°44.7'
5	240°11.0'	S 4°37.1'	1°57.3'	S 17°24.1'	315°07.2'	S 22°21.7'	334°03.5'	S 22°44.8'
6	255°10.6'	S 4°35.8'	16°59.7'	S 17°24.1'	330°09.5'	S 22°21.7'	349°04.4'	S 22°45.0'
7	270°10.2'	S 4°34.6'	32°02.1'	S 17°24.1'	345°11.7'	S 22°21.7'	4°05.2'	S 22°45.2'
8	285°09.9'	S 4°33.3'	47°04.5'	S 17°24.1'	0°14.0'	S 22°21.7'	19°06.1'	S 22°45.3'
9	300°09.5'	S 4°32.0'	62°06.9'	S 17°24.1'	15°16.3'	S 22°21.7'	34°07.0'	S 22°45.5'
10	315°09.1'	S 4°30.8'	77°09.3'	S 17°24.1'	30°18.5'	S 22°21.7'	49°07.8'	S 22°45.6'
11	330°08.7'	S 4°29.5'	92°11.7'	S 17°24.2'	45°20.8'	S 22°21.6'	64°08.7'	S 22°45.8'
12	345°08.3'	S 4°28.2'	107°14.1'	S 17°24.2'	60°23.0'	S 22°21.6'	79°09.6'	S 22°45.9'
13	0°07.9'	S 4°27.0'	122°16.5'	S 17°24.2'	75°25.3'	S 22°21.6'	94°10.4'	S 22°46.1'
14	15°07.5'	S 4°25.7'	137°18.9'	S 17°24.2'	90°27.6'	S 22°21.6'	109°11.3'	S 22°46.2'
15	30°07.1'	S 4°24.5'	152°21.3'	S 17°24.2'	105°29.8'	S 22°21.6'	124°12.1'	S 22°46.4'
16	45°06.7'	S 4°23.2'	167°23.7'	S 17°24.2'	120°32.1'	S 22°21.6'	139°13.0'	S 22°46.5'
17	60°06.3'	S 4°21.9'	182°26.1'	S 17°24.2'	135°34.4'	S 22°21.6'	154°13.9'	S 22°46.7'
18	75°05.9'	S 4°20.7'	197°28.5'	S 17°24.2'	150°36.6'	S 22°21.6'	169°14.7'	S 22°46.8'
19	90°05.5'	S 4°19.4'	212°30.8'	S 17°24.2'	165°38.9'	S 22°21.6'	184°15.6'	S 22°47.0'
20	105°05.1'	S 4°18.1'	227°33.2'	S 17°24.2'	180°41.2'	S 22°21.6'	199°16.5'	S 22°47.1'
21	120°04.7'	S 4°16.9'	242°35.6'	S 17°24.3'	195°43.4'	S 22°21.5'	214°17.3'	S 22°47.3'
22	135°04.3'	S 4°15.6'	257°38.0'	S 17°24.3'	210°45.7'	S 22°21.5'	229°18.2'	S 22°47.4'
23	150°03.9'	S 4°14.3'	272°40.4'	S 17°24.3'	225°48.0'	S 22°21.5'	244°19.1'	S 22°47.6'