

Sun Apr 1, 2018 UTC

UTC	Venus -3.8		Jupiter -2.2		Saturn +0.5		Mars +0.3	
	v = -0.4' d = 1.2'		v = 2.6' d = 0.0'		v = 2.4' d = 0.0'		v = 1.0' d = 0.0'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	160°17.1'	N 11°21.9'	318°57.4'	S 17°09.6'	269°40.4'	S 22°15.4'	270°31.5'	S 23°32.1'
1	175°16.6'	N 11°23.0'	334°00.1'	S 17°09.5'	284°42.7'	S 22°15.4'	285°32.4'	S 23°32.1'
2	190°16.2'	N 11°24.2'	349°02.7'	S 17°09.5'	299°45.1'	S 22°15.4'	300°33.4'	S 23°32.1'
3	205°15.7'	N 11°25.4'	4°05.3'	S 17°09.4'	314°47.5'	S 22°15.4'	315°34.4'	S 23°32.0'
4	220°15.3'	N 11°26.5'	19°08.0'	S 17°09.4'	329°49.9'	S 22°15.3'	330°35.3'	S 23°32.0'
5	235°14.8'	N 11°27.7'	34°10.6'	S 17°09.4'	344°52.3'	S 22°15.3'	345°36.3'	S 23°32.0'
6	250°14.4'	N 11°28.9'	49°13.2'	S 17°09.3'	359°54.7'	S 22°15.3'	0°37.2'	S 23°32.0'
7	265°13.9'	N 11°30.0'	64°15.9'	S 17°09.3'	14°57.1'	S 22°15.3'	15°38.2'	S 23°31.9'
8	280°13.5'	N 11°31.2'	79°18.5'	S 17°09.2'	29°59.5'	S 22°15.3'	30°39.2'	S 23°31.9'
9	295°13.0'	N 11°32.4'	94°21.2'	S 17°09.2'	45°01.9'	S 22°15.3'	45°40.1'	S 23°31.9'
10	310°12.6'	N 11°33.5'	109°23.8'	S 17°09.1'	60°04.3'	S 22°15.3'	60°41.1'	S 23°31.9'
11	325°12.1'	N 11°34.7'	124°26.4'	S 17°09.1'	75°06.6'	S 22°15.3'	75°42.1'	S 23°31.9'
12	340°11.7'	N 11°35.8'	139°29.1'	S 17°09.0'	90°09.0'	S 22°15.3'	90°43.0'	S 23°31.8'
13	355°11.3'	N 11°37.0'	154°31.7'	S 17°09.0'	105°11.4'	S 22°15.3'	105°44.0'	S 23°31.8'
14	10°10.8'	N 11°38.2'	169°34.4'	S 17°08.9'	120°13.8'	S 22°15.3'	120°45.0'	S 23°31.8'
15	25°10.4'	N 11°39.3'	184°37.0'	S 17°08.9'	135°16.2'	S 22°15.3'	135°45.9'	S 23°31.8'
16	40°09.9'	N 11°40.5'	199°39.6'	S 17°08.8'	150°18.6'	S 22°15.3'	150°46.9'	S 23°31.7'
17	55°09.5'	N 11°41.6'	214°42.3'	S 17°08.8'	165°21.0'	S 22°15.3'	165°47.9'	S 23°31.7'
18	70°09.0'	N 11°42.8'	229°44.9'	S 17°08.7'	180°23.4'	S 22°15.3'	180°48.8'	S 23°31.7'
19	85°08.6'	N 11°43.9'	244°47.6'	S 17°08.7'	195°25.8'	S 22°15.3'	195°49.8'	S 23°31.7'
20	100°08.1'	N 11°45.1'	259°50.2'	S 17°08.6'	210°28.2'	S 22°15.3'	210°50.8'	S 23°31.7'
21	115°07.6'	N 11°46.3'	274°52.8'	S 17°08.6'	225°30.6'	S 22°15.3'	225°51.7'	S 23°31.6'
22	130°07.2'	N 11°47.4'	289°55.5'	S 17°08.5'	240°33.0'	S 22°15.3'	240°52.7'	S 23°31.6'
23	145°06.7'	N 11°48.6'	304°58.1'	S 17°08.5'	255°35.3'	S 22°15.2'	255°53.7'	S 23°31.6'

Mon Apr 2, 2018 UTC

UTC	Venus -3.8		Jupiter -2.2		Saturn +0.5		Mars +0.2	
	v = -0.5' d = 1.1'		v = 2.6' d = 0.1'		v = 2.4' d = 0.0'		v = 1.0' d = 0.0'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	160°06.3'	N 11°49.7'	320°00.8'	S 17°08.4'	270°37.7'	S 22°15.2'	270°54.6'	S 23°31.6'
1	175°05.8'	N 11°50.9'	335°03.4'	S 17°08.4'	285°40.1'	S 22°15.2'	285°55.6'	S 23°31.5'
2	190°05.4'	N 11°52.0'	350°06.1'	S 17°08.3'	300°42.5'	S 22°15.2'	300°56.6'	S 23°31.5'
3	205°04.9'	N 11°53.2'	5°08.7'	S 17°08.3'	315°44.9'	S 22°15.2'	315°57.5'	S 23°31.5'
4	220°04.5'	N 11°54.3'	20°11.4'	S 17°08.2'	330°47.3'	S 22°15.2'	330°58.5'	S 23°31.5'
5	235°04.0'	N 11°55.5'	35°14.0'	S 17°08.2'	345°49.7'	S 22°15.2'	345°59.5'	S 23°31.4'
6	250°03.6'	N 11°56.6'	50°16.6'	S 17°08.1'	0°52.1'	S 22°15.2'	1°00.4'	S 23°31.4'
7	265°03.1'	N 11°57.8'	65°19.3'	S 17°08.1'	15°54.5'	S 22°15.2'	16°01.4'	S 23°31.4'
8	280°02.7'	N 11°58.9'	80°21.9'	S 17°08.0'	30°56.9'	S 22°15.2'	31°02.4'	S 23°31.4'
9	295°02.2'	N 12°00.1'	95°24.6'	S 17°08.0'	45°59.3'	S 22°15.2'	46°03.3'	S 23°31.3'
10	310°01.7'	N 12°01.2'	110°27.2'	S 17°07.9'	61°01.7'	S 22°15.2'	61°04.3'	S 23°31.3'
11	325°01.3'	N 12°02.4'	125°29.9'	S 17°07.9'	76°04.1'	S 22°15.2'	76°05.3'	S 23°31.3'
12	340°00.8'	N 12°03.5'	140°32.5'	S 17°07.8'	91°06.5'	S 22°15.2'	91°06.2'	S 23°31.2'
13	355°00.4'	N 12°04.7'	155°35.2'	S 17°07.8'	106°08.9'	S 22°15.2'	106°07.2'	S 23°31.2'
14	9°59.9'	N 12°05.8'	170°37.8'	S 17°07.7'	121°11.3'	S 22°15.2'	121°08.2'	S 23°31.2'
15	24°59.5'	N 12°07.0'	185°40.5'	S 17°07.7'	136°13.7'	S 22°15.2'	136°09.2'	S 23°31.2'
16	39°59.0'	N 12°08.1'	200°43.1'	S 17°07.6'	151°16.1'	S 22°15.2'	151°10.1'	S 23°31.1'
17	54°58.5'	N 12°09.3'	215°45.8'	S 17°07.6'	166°18.4'	S 22°15.2'	166°11.1'	S 23°31.1'
18	69°58.1'	N 12°10.4'	230°48.4'	S 17°07.5'	181°20.8'	S 22°15.2'	181°12.1'	S 23°31.1'
19	84°57.6'	N 12°11.6'	245°51.1'	S 17°07.5'	196°23.2'	S 22°15.1'	196°13.0'	S 23°31.1'
20	99°57.2'	N 12°12.7'	260°53.7'	S 17°07.4'	211°25.6'	S 22°15.1'	211°14.0'	S 23°31.0'
21	114°56.7'	N 12°13.9'	275°56.4'	S 17°07.4'	226°28.0'	S 22°15.1'	226°15.0'	S 23°31.0'
22	129°56.2'	N 12°15.0'	290°59.0'	S 17°07.3'	241°30.4'	S 22°15.1'	241°16.0'	S 23°31.0'
23	144°55.8'	N 12°16.1'	306°01.7'	S 17°07.3'	256°32.8'	S 22°15.1'	256°16.9'	S 23°30.9'

Tue Apr 3, 2018 UTC

UTC	Venus -3.8		Jupiter -2.2		Saturn +0.5		Mars +0.2	
	v = -0.5' d = 1.1'		v = 2.7' d = 0.1'		v = 2.4' d = 0.0'		v = 1.0' d = 0.0'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	159°55.3'	N 12°17.3'	321°04.3'	S 17°07.2'	271°35.2'	S 22°15.1'	271°17.9'	S 23°30.9'
1	174°54.9'	N 12°18.4'	336°07.0'	S 17°07.2'	286°37.6'	S 22°15.1'	286°18.9'	S 23°30.9'
2	189°54.4'	N 12°19.6'	351°09.6'	S 17°07.1'	301°40.0'	S 22°15.1'	301°19.8'	S 23°30.9'
3	204°53.9'	N 12°20.7'	6°12.3'	S 17°07.1'	316°42.4'	S 22°15.1'	316°20.8'	S 23°30.8'
4	219°53.5'	N 12°21.9'	21°14.9'	S 17°07.0'	331°44.8'	S 22°15.1'	331°21.8'	S 23°30.8'
5	234°53.0'	N 12°23.0'	36°17.6'	S 17°07.0'	346°47.2'	S 22°15.1'	346°22.8'	S 23°30.8'
6	249°52.5'	N 12°24.1'	51°20.2'	S 17°06.9'	1°49.6'	S 22°15.1'	1°23.7'	S 23°30.7'
7	264°52.1'	N 12°25.3'	66°22.9'	S 17°06.9'	16°52.0'	S 22°15.1'	16°24.7'	S 23°30.7'
8	279°51.6'	N 12°26.4'	81°25.5'	S 17°06.8'	31°54.4'	S 22°15.1'	31°25.7'	S 23°30.7'
9	294°51.2'	N 12°27.6'	96°28.2'	S 17°06.8'	46°56.8'	S 22°15.1'	46°26.7'	S 23°30.6'
10	309°50.7'	N 12°28.7'	111°30.8'	S 17°06.7'	61°59.2'	S 22°15.1'	61°27.6'	S 23°30.6'
11	324°50.2'	N 12°29.8'	126°33.5'	S 17°06.7'	77°01.6'	S 22°15.1'	76°28.6'	S 23°30.6'
12	339°49.8'	N 12°31.0'	141°36.1'	S 17°06.6'	92°04.0'	S 22°15.1'	91°29.6'	S 23°30.6'
13	354°49.3'	N 12°32.1'	156°38.8'	S 17°06.5'	107°06.4'	S 22°15.1'	106°30.6'	S 23°30.5'
14	9°48.8'	N 12°33.2'	171°41.4'	S 17°06.5'	122°08.8'	S 22°15.1'	121°31.5'	S 23°30.5'
15	24°48.4'	N 12°34.4'	186°44.1'	S 17°06.4'	137°11.2'	S 22°15.1'	136°32.5'	S 23°30.5'
16	39°47.9'	N 12°35.5'	201°46.7'	S 17°06.4'	152°13.6'	S 22°15.0'	151°33.5'	S 23°30.4'
17	54°47.4'	N 12°36.6'	216°49.4'	S 17°06.3'	167°16.0'	S 22°15.0'	166°34.5'	S 23°30.4'
18	69°47.0'	N 12°37.8'	231°52.1'	S 17°06.3'	182°18.4'	S 22°15.0'	181°35.5'	S 23°30.4'
19	84°46.5'	N 12°38.9'	246°54.7'	S 17°06.2'	197°20.8'	S 22°15.0'	196°36.4'	S 23°30.3'
20	99°46.0'	N 12°40.0'	261°57.4'	S 17°06.2'	212°23.2'	S 22°15.0'	211°37.4'	S 23°30.3'
21	114°45.6'	N 12°41.2'	277°00.0'	S 17°06.1'	227°25.6'	S 22°15.0'	226°38.4'	S 23°30.3'
22	129°45.1'	N 12°42.3'	292°02.7'	S 17°06.1'	242°28.0'	S 22°15.0'	241°39.4'	S 23°30.2'
23	144°44.6'	N 12°43.4'	307°05.3'	S 17°06.0'	257°30.4'	S 22°15.0'	256°40.3'	S 23°30.2'

Wed Apr 4, 2018 UTC

UTC	Venus -3.8		Jupiter -2.2		Saturn +0.5		Mars +0.2	
	v = -0.5' d = 1.1'		v = 2.7' d = 0.1'		v = 2.4' d = 0.0'		v = 1.0' d = 0.0'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	159°44.1'	N 12°44.6'	322°08.0'	S 17°06.0'	272°32.8'	S 22°15.0'	271°41.3'	S 23°30.2'
1	174°43.7'	N 12°45.7'	337°10.6'	S 17°05.9'	287°35.2'	S 22°15.0'	286°42.3'	S 23°30.1'
2	189°43.2'	N 12°46.8'	352°13.3'	S 17°05.9'	302°37.6'	S 22°15.0'	301°43.3'	S 23°30.1'
3	204°42.7'	N 12°48.0'	7°16.0'	S 17°05.8'	317°40.0'	S 22°15.0'	316°44.3'	S 23°30.1'
4	219°42.3'	N 12°49.1'	22°18.6'	S 17°05.8'	332°42.4'	S 22°15.0'	331°45.2'	S 23°30.0'
5	234°41.8'	N 12°50.2'	37°21.3'	S 17°05.7'	347°44.8'	S 22°15.0'	346°46.2'	S 23°30.0'
6	249°41.3'	N 12°51.3'	52°23.9'	S 17°05.7'	2°47.2'	S 22°15.0'	1°47.2'	S 23°30.0'
7	264°40.8'	N 12°52.5'	67°26.6'	S 17°05.6'	17°49.6'	S 22°15.0'	16°48.2'	S 23°29.9'
8	279°40.4'	N 12°53.6'	82°29.3'	S 17°05.6'	32°52.0'	S 22°15.0'	31°49.2'	S 23°29.9'
9	294°39.9'	N 12°54.7'	97°31.9'	S 17°05.5'	47°54.4'	S 22°15.0'	46°50.1'	S 23°29.9'
10	309°39.4'	N 12°55.8'	112°34.6'	S 17°05.4'	62°56.8'	S 22°15.0'	61°51.1'	S 23°29.8'
11	324°39.0'	N 12°57.0'	127°37.2'	S 17°05.4'	77°59.2'	S 22°15.0'	76°52.1'	S 23°29.8'
12	339°38.5'	N 12°58.1'	142°39.9'	S 17°05.3'	93°01.6'	S 22°15.0'	91°53.1'	S 23°29.8'
13	354°38.0'	N 12°59.2'	157°42.6'	S 17°05.3'	108°04.1'	S 22°15.0'	106°54.1'	S 23°29.7'
14	9°37.5'	N 13°00.3'	172°45.2'	S 17°05.2'	123°06.5'	S 22°15.0'	121°55.0'	S 23°29.7'
15	24°37.1'	N 13°01.5'	187°47.9'	S 17°05.2'	138°08.9'	S 22°14.9'	136°56.0'	S 23°29.7'
16	39°36.6'	N 13°02.6'	202°50.5'	S 17°05.1'	153°11.3'	S 22°14.9'	151°57.0'	S 23°29.6'
17	54°36.1'	N 13°03.7'	217°53.2'	S 17°05.1'	168°13.7'	S 22°14.9'	166°58.0'	S 23°29.6'
18	69°35.6'	N 13°04.8'	232°55.9'	S 17°05.0'	183°16.1'	S 22°14.9'	181°59.0'	S 23°29.5'
19	84°35.1'	N 13°05.9'	247°58.5'	S 17°05.0'	198°18.5'	S 22°14.9'	196°59.9'	S 23°29.5'
20	99°34.7'	N 13°07.1'	263°01.2'	S 17°04.9'	213°20.9'	S 22°14.9'	212°00.9'	S 23°29.5'
21	114°34.2'	N 13°08.2'	278°03.8'	S 17°04.9'	228°23.3'	S 22°14.9'	227°01.9'	S 23°29.4'
22	129°33.7'	N 13°09.3'	293°06.5'	S 17°04.8'	243°25.7'	S 22°14.9'	242°02.9'	S 23°29.4'
23	144°33.2'	N 13°10.4'	308°09.2'	S 17°04.7'	258°28.1'	S 22°14.9'	257°03.9'	S 23°29.4'

Thu Apr 5, 2018 UTC

UTC	Venus -3.8		Jupiter -2.2		Saturn +0.5		Mars +0.2	
	v = -0.5' d = 1.1'		v = 2.7' d = 0.1'		v = 2.4' d = 0.0'		v = 1.0' d = 0.0'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	159°32.8'	N 13°11.5'	323°11.8'	S 17°04.7'	273°30.5'	S 22°14.9'	272°04.9'	S 23°29.3'
1	174°32.3'	N 13°12.6'	338°14.5'	S 17°04.6'	288°32.9'	S 22°14.9'	287°05.8'	S 23°29.3'
2	189°31.8'	N 13°13.8'	353°17.2'	S 17°04.6'	303°35.3'	S 22°14.9'	302°06.8'	S 23°29.2'
3	204°31.3'	N 13°14.9'	8°19.8'	S 17°04.5'	318°37.7'	S 22°14.9'	317°07.8'	S 23°29.2'
4	219°30.8'	N 13°16.0'	23°22.5'	S 17°04.5'	333°40.1'	S 22°14.9'	332°08.8'	S 23°29.2'
5	234°30.4'	N 13°17.1'	38°25.2'	S 17°04.4'	348°42.5'	S 22°14.9'	347°09.8'	S 23°29.1'
6	249°29.9'	N 13°18.2'	53°27.8'	S 17°04.4'	3°45.0'	S 22°14.9'	2°10.8'	S 23°29.1'
7	264°29.4'	N 13°19.3'	68°30.5'	S 17°04.3'	18°47.4'	S 22°14.9'	17°11.8'	S 23°29.1'
8	279°28.9'	N 13°20.5'	83°33.2'	S 17°04.3'	33°49.8'	S 22°14.9'	32°12.7'	S 23°29.0'
9	294°28.4'	N 13°21.6'	98°35.8'	S 17°04.2'	48°52.2'	S 22°14.9'	47°13.7'	S 23°29.0'
10	309°27.9'	N 13°22.7'	113°38.5'	S 17°04.1'	63°54.6'	S 22°14.9'	62°14.7'	S 23°28.9'
11	324°27.5'	N 13°23.8'	128°41.1'	S 17°04.1'	78°57.0'	S 22°14.9'	77°15.7'	S 23°28.9'
12	339°27.0'	N 13°24.9'	143°43.8'	S 17°04.0'	93°59.4'	S 22°14.9'	92°16.7'	S 23°28.9'
13	354°26.5'	N 13°26.0'	158°46.5'	S 17°04.0'	109°01.8'	S 22°14.9'	107°17.7'	S 23°28.8'
14	9°26.0'	N 13°27.1'	173°49.1'	S 17°03.9'	124°04.2'	S 22°14.9'	122°18.7'	S 23°28.8'
15	24°25.5'	N 13°28.2'	188°51.8'	S 17°03.9'	139°06.6'	S 22°14.8'	137°19.7'	S 23°28.7'
16	39°25.0'	N 13°29.3'	203°54.5'	S 17°03.8'	154°09.0'	S 22°14.8'	152°20.6'	S 23°28.7'
17	54°24.6'	N 13°30.4'	218°57.2'	S 17°03.8'	169°11.4'	S 22°14.8'	167°21.6'	S 23°28.7'
18	69°24.1'	N 13°31.5'	233°59.8'	S 17°03.7'	184°13.9'	S 22°14.8'	182°22.6'	S 23°28.6'
19	84°23.6'	N 13°32.7'	249°02.5'	S 17°03.6'	199°16.3'	S 22°14.8'	197°23.6'	S 23°28.6'
20	99°23.1'	N 13°33.8'	264°05.2'	S 17°03.6'	214°18.7'	S 22°14.8'	212°24.6'	S 23°28.5'
21	114°22.6'	N 13°34.9'	279°07.8'	S 17°03.5'	229°21.1'	S 22°14.8'	227°25.6'	S 23°28.5'
22	129°22.1'	N 13°36.0'	294°10.5'	S 17°03.5'	244°23.5'	S 22°14.8'	242°26.6'	S 23°28.5'
23	144°21.6'	N 13°37.1'	309°13.2'	S 17°03.4'	259°25.9'	S 22°14.8'	257°27.6'	S 23°28.4'

Fri Apr 6, 2018 UTC

UTC	Venus -3.8		Jupiter -2.2		Saturn +0.5		Mars +0.2	
	v = -0.5' d = 1.1'		v = 2.7' d = 0.1'		v = 2.4' d = 0.0'		v = 1.0' d = 0.0'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	159°21.1'	N 13°38.2'	324°15.8'	S 17°03.4'	274°28.3'	S 22°14.8'	272°28.6'	S 23°28.4'
1	174°20.7'	N 13°39.3'	339°18.5'	S 17°03.3'	289°30.7'	S 22°14.8'	287°29.5'	S 23°28.3'
2	189°20.2'	N 13°40.4'	354°21.2'	S 17°03.3'	304°33.1'	S 22°14.8'	302°30.5'	S 23°28.3'
3	204°19.7'	N 13°41.5'	9°23.8'	S 17°03.2'	319°35.5'	S 22°14.8'	317°31.5'	S 23°28.3'
4	219°19.2'	N 13°42.6'	24°26.5'	S 17°03.1'	334°38.0'	S 22°14.8'	332°32.5'	S 23°28.2'
5	234°18.7'	N 13°43.7'	39°29.2'	S 17°03.1'	349°40.4'	S 22°14.8'	347°33.5'	S 23°28.2'
6	249°18.2'	N 13°44.8'	54°31.9'	S 17°03.0'	4°42.8'	S 22°14.8'	2°34.5'	S 23°28.1'
7	264°17.7'	N 13°45.9'	69°34.5'	S 17°03.0'	19°45.2'	S 22°14.8'	17°35.5'	S 23°28.1'
8	279°17.2'	N 13°47.0'	84°37.2'	S 17°02.9'	34°47.6'	S 22°14.8'	32°36.5'	S 23°28.0'
9	294°16.7'	N 13°48.1'	99°39.9'	S 17°02.9'	49°50.0'	S 22°14.8'	47°37.5'	S 23°28.0'
10	309°16.2'	N 13°49.2'	114°42.5'	S 17°02.8'	64°52.4'	S 22°14.8'	62°38.5'	S 23°28.0'
11	324°15.8'	N 13°50.3'	129°45.2'	S 17°02.8'	79°54.8'	S 22°14.8'	77°39.5'	S 23°27.9'
12	339°15.3'	N 13°51.4'	144°47.9'	S 17°02.7'	94°57.3'	S 22°14.8'	92°40.5'	S 23°27.9'
13	354°14.8'	N 13°52.5'	159°50.6'	S 17°02.6'	109°59.7'	S 22°14.8'	107°41.4'	S 23°27.8'
14	9°14.3'	N 13°53.6'	174°53.2'	S 17°02.6'	125°02.1'	S 22°14.8'	122°42.4'	S 23°27.8'
15	24°13.8'	N 13°54.7'	189°55.9'	S 17°02.5'	140°04.5'	S 22°14.8'	137°43.4'	S 23°27.7'
16	39°13.3'	N 13°55.8'	204°58.6'	S 17°02.5'	155°06.9'	S 22°14.7'	152°44.4'	S 23°27.7'
17	54°12.8'	N 13°56.9'	220°01.3'	S 17°02.4'	170°09.3'	S 22°14.7'	167°45.4'	S 23°27.7'
18	69°12.3'	N 13°58.0'	235°03.9'	S 17°02.4'	185°11.7'	S 22°14.7'	182°46.4'	S 23°27.6'
19	84°11.8'	N 13°59.0'	250°06.6'	S 17°02.3'	200°14.1'	S 22°14.7'	197°47.4'	S 23°27.6'
20	99°11.3'	N 14°00.1'	265°09.3'	S 17°02.2'	215°16.6'	S 22°14.7'	212°48.4'	S 23°27.5'
21	114°10.8'	N 14°01.2'	280°12.0'	S 17°02.2'	230°19.0'	S 22°14.7'	227°49.4'	S 23°27.5'
22	129°10.3'	N 14°02.3'	295°14.6'	S 17°02.1'	245°21.4'	S 22°14.7'	242°50.4'	S 23°27.4'
23	144°09.8'	N 14°03.4'	310°17.3'	S 17°02.1'	260°23.8'	S 22°14.7'	257°51.4'	S 23°27.4'

Sat Apr 7, 2018 UTC

UTC	Venus -3.8 v = -0.5' d = 1.1'		Jupiter -2.3 v = 2.7' d = 0.1'		Saturn +0.5 v = 2.4' d = 0.0'		Mars +0.1 v = 1.0' d = 0.0'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	159°09.3'	N 14°04.5'	325°20.0'	S 17°02.0'	275°26.2'	S 22°14.7'	272°52.4'	S 23°27.3'
1	174°08.8'	N 14°05.6'	340°22.7'	S 17°02.0'	290°28.6'	S 22°14.7'	287°53.4'	S 23°27.3'
2	189°08.3'	N 14°06.7'	355°25.3'	S 17°01.9'	305°31.0'	S 22°14.7'	302°54.4'	S 23°27.3'
3	204°07.8'	N 14°07.8'	10°28.0'	S 17°01.8'	320°33.5'	S 22°14.7'	317°55.4'	S 23°27.2'
4	219°07.3'	N 14°08.9'	25°30.7'	S 17°01.8'	335°35.9'	S 22°14.7'	332°56.4'	S 23°27.2'
5	234°06.8'	N 14°09.9'	40°33.4'	S 17°01.7'	350°38.3'	S 22°14.7'	347°57.4'	S 23°27.1'
6	249°06.3'	N 14°11.0'	55°36.0'	S 17°01.7'	5°40.7'	S 22°14.7'	2°58.4'	S 23°27.1'
7	264°05.8'	N 14°12.1'	70°38.7'	S 17°01.6'	20°43.1'	S 22°14.7'	17°59.4'	S 23°27.0'
8	279°05.3'	N 14°13.2'	85°41.4'	S 17°01.6'	35°45.5'	S 22°14.7'	33°00.4'	S 23°27.0'
9	294°04.8'	N 14°14.3'	100°44.1'	S 17°01.5'	50°48.0'	S 22°14.7'	48°01.4'	S 23°26.9'
10	309°04.3'	N 14°15.4'	115°46.8'	S 17°01.4'	65°50.4'	S 22°14.7'	63°02.4'	S 23°26.9'
11	324°03.8'	N 14°16.5'	130°49.4'	S 17°01.4'	80°52.8'	S 22°14.7'	78°03.4'	S 23°26.8'
12	339°03.3'	N 14°17.5'	145°52.1'	S 17°01.3'	95°55.2'	S 22°14.7'	93°04.4'	S 23°26.8'
13	354°02.8'	N 14°18.6'	160°54.8'	S 17°01.3'	110°57.6'	S 22°14.7'	108°05.4'	S 23°26.7'
14	9°02.3'	N 14°19.7'	175°57.5'	S 17°01.2'	126°00.0'	S 22°14.7'	123°06.4'	S 23°26.7'
15	24°01.8'	N 14°20.8'	191°00.2'	S 17°01.1'	141°02.5'	S 22°14.7'	138°07.4'	S 23°26.7'
16	39°01.3'	N 14°21.9'	206°02.8'	S 17°01.1'	156°04.9'	S 22°14.7'	153°08.4'	S 23°26.6'
17	54°00.8'	N 14°22.9'	221°05.5'	S 17°01.0'	171°07.3'	S 22°14.7'	168°09.4'	S 23°26.6'
18	69°00.3'	N 14°24.0'	236°08.2'	S 17°01.0'	186°09.7'	S 22°14.7'	183°10.4'	S 23°26.5'
19	83°59.8'	N 14°25.1'	251°10.9'	S 17°00.9'	201°12.1'	S 22°14.7'	198°11.4'	S 23°26.5'
20	98°59.3'	N 14°26.2'	266°13.6'	S 17°00.9'	216°14.6'	S 22°14.6'	213°12.4'	S 23°26.4'
21	113°58.8'	N 14°27.3'	281°16.2'	S 17°00.8'	231°17.0'	S 22°14.6'	228°13.4'	S 23°26.4'
22	128°58.3'	N 14°28.3'	296°18.9'	S 17°00.7'	246°19.4'	S 22°14.6'	243°14.4'	S 23°26.3'
23	143°57.8'	N 14°29.4'	311°21.6'	S 17°00.7'	261°21.8'	S 22°14.6'	258°15.4'	S 23°26.3'

Sun Apr 8, 2018 UTC

UTC	Venus -3.8 v = -0.5' d = 1.1'		Jupiter -2.3 v = 2.7' d = 0.1'		Saturn +0.5 v = 2.4' d = 0.0'		Mars +0.1 v = 1.0' d = 0.1'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	158°57.2'	N 14°30.5'	326°24.3'	S 17°00.6'	276°24.2'	S 22°14.6'	273°16.4'	S 23°26.2'
1	173°56.7'	N 14°31.6'	341°27.0'	S 17°00.6'	291°26.6'	S 22°14.6'	288°17.4'	S 23°26.2'
2	188°56.2'	N 14°32.6'	356°29.7'	S 17°00.5'	306°29.1'	S 22°14.6'	303°18.4'	S 23°26.1'
3	203°55.7'	N 14°33.7'	11°32.3'	S 17°00.4'	321°31.5'	S 22°14.6'	318°19.4'	S 23°26.1'
4	218°55.2'	N 14°34.8'	26°35.0'	S 17°00.4'	336°33.9'	S 22°14.6'	333°20.4'	S 23°26.0'
5	233°54.7'	N 14°35.8'	41°37.7'	S 17°00.3'	351°36.3'	S 22°14.6'	348°21.4'	S 23°26.0'
6	248°54.2'	N 14°36.9'	56°40.4'	S 17°00.3'	6°38.7'	S 22°14.6'	3°22.4'	S 23°25.9'
7	263°53.7'	N 14°38.0'	71°43.1'	S 17°00.2'	21°41.2'	S 22°14.6'	18°23.4'	S 23°25.9'
8	278°53.2'	N 14°39.1'	86°45.8'	S 17°00.1'	36°43.6'	S 22°14.6'	33°24.4'	S 23°25.8'
9	293°52.7'	N 14°40.1'	101°48.4'	S 17°00.1'	51°46.0'	S 22°14.6'	48°25.4'	S 23°25.8'
10	308°52.2'	N 14°41.2'	116°51.1'	S 17°00.0'	66°48.4'	S 22°14.6'	63°26.4'	S 23°25.7'
11	323°51.6'	N 14°42.3'	131°53.8'	S 16°60.0'	81°50.9'	S 22°14.6'	78°27.4'	S 23°25.7'
12	338°51.1'	N 14°43.3'	146°56.5'	S 16°59.9'	96°53.3'	S 22°14.6'	93°28.4'	S 23°25.6'
13	353°50.6'	N 14°44.4'	161°59.2'	S 16°59.8'	111°55.7'	S 22°14.6'	108°29.4'	S 23°25.6'
14	8°50.1'	N 14°45.5'	177°01.9'	S 16°59.8'	126°58.1'	S 22°14.6'	123°30.4'	S 23°25.5'
15	23°49.6'	N 14°46.5'	192°04.5'	S 16°59.7'	142°00.5'	S 22°14.6'	138°31.4'	S 23°25.5'
16	38°49.1'	N 14°47.6'	207°07.2'	S 16°59.7'	157°03.0'	S 22°14.6'	153°32.4'	S 23°25.4'
17	53°48.6'	N 14°48.7'	222°09.9'	S 16°59.6'	172°05.4'	S 22°14.6'	168°33.5'	S 23°25.4'
18	68°48.0'	N 14°49.7'	237°12.6'	S 16°59.5'	187°07.8'	S 22°14.6'	183°34.5'	S 23°25.3'
19	83°47.5'	N 14°50.8'	252°15.3'	S 16°59.5'	202°10.2'	S 22°14.6'	198°35.5'	S 23°25.3'
20	98°47.0'	N 14°51.9'	267°18.0'	S 16°59.4'	217°12.7'	S 22°14.6'	213°36.5'	S 23°25.2'
21	113°46.5'	N 14°52.9'	282°20.7'	S 16°59.4'	232°15.1'	S 22°14.6'	228°37.5'	S 23°25.2'
22	128°46.0'	N 14°54.0'	297°23.4'	S 16°59.3'	247°17.5'	S 22°14.6'	243°38.5'	S 23°25.1'
23	143°45.5'	N 14°55.0'	312°26.0'	S 16°59.2'	262°19.9'	S 22°14.6'	258°39.5'	S 23°25.1'

Mon Apr 9, 2018 UTC

UTC	Venus -3.8 v = -0.5' d = 1.1'		Jupiter -2.3 v = 2.7' d = 0.1'		Saturn +0.5 v = 2.4' d = 0.0'		Mars +0.1 v = 1.0' d = 0.1'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	158°44.9'	N 14°56.1'	327°28.7'	S 16°59.2'	277°22.3'	S 22°14.6'	273°40.5'	S 23°25.0'
1	173°44.4'	N 14°57.2'	342°31.4'	S 16°59.1'	292°24.8'	S 22°14.6'	288°41.5'	S 23°24.9'
2	188°43.9'	N 14°58.2'	357°34.1'	S 16°59.1'	307°27.2'	S 22°14.6'	303°42.5'	S 23°24.9'
3	203°43.4'	N 14°59.3'	12°36.8'	S 16°59.0'	322°29.6'	S 22°14.5'	318°43.5'	S 23°24.8'
4	218°42.9'	N 15°00.3'	27°39.5'	S 16°58.9'	337°32.0'	S 22°14.5'	333°44.6'	S 23°24.8'
5	233°42.4'	N 15°01.4'	42°42.2'	S 16°58.9'	352°34.5'	S 22°14.5'	348°45.6'	S 23°24.7'
6	248°41.8'	N 15°02.5'	57°44.9'	S 16°58.8'	7°36.9'	S 22°14.5'	3°46.6'	S 23°24.7'
7	263°41.3'	N 15°03.5'	72°47.6'	S 16°58.8'	22°39.3'	S 22°14.5'	18°47.6'	S 23°24.6'
8	278°40.8'	N 15°04.6'	87°50.2'	S 16°58.7'	37°41.7'	S 22°14.5'	33°48.6'	S 23°24.6'
9	293°40.3'	N 15°05.6'	102°52.9'	S 16°58.6'	52°44.2'	S 22°14.5'	48°49.6'	S 23°24.5'
10	308°39.7'	N 15°06.7'	117°55.6'	S 16°58.6'	67°46.6'	S 22°14.5'	63°50.6'	S 23°24.5'
11	323°39.2'	N 15°07.7'	132°58.3'	S 16°58.5'	82°49.0'	S 22°14.5'	78°51.6'	S 23°24.4'
12	338°38.7'	N 15°08.8'	148°01.0'	S 16°58.5'	97°51.4'	S 22°14.5'	93°52.6'	S 23°24.4'
13	353°38.2'	N 15°09.8'	163°03.7'	S 16°58.4'	112°53.9'	S 22°14.5'	108°53.7'	S 23°24.3'
14	8°37.7'	N 15°10.9'	178°06.4'	S 16°58.3'	127°56.3'	S 22°14.5'	123°54.7'	S 23°24.3'
15	23°37.1'	N 15°11.9'	193°09.1'	S 16°58.3'	142°58.7'	S 22°14.5'	138°55.7'	S 23°24.2'
16	38°36.6'	N 15°13.0'	208°11.8'	S 16°58.2'	158°01.1'	S 22°14.5'	153°56.7'	S 23°24.1'
17	53°36.1'	N 15°14.0'	223°14.5'	S 16°58.2'	173°03.6'	S 22°14.5'	168°57.7'	S 23°24.1'
18	68°35.6'	N 15°15.1'	238°17.2'	S 16°58.1'	188°06.0'	S 22°14.5'	183°58.7'	S 23°24.0'
19	83°35.0'	N 15°16.1'	253°19.9'	S 16°58.0'	203°08.4'	S 22°14.5'	198°59.7'	S 23°24.0'
20	98°34.5'	N 15°17.2'	268°22.6'	S 16°58.0'	218°10.9'	S 22°14.5'	214°00.8'	S 23°23.9'
21	113°34.0'	N 15°18.2'	283°25.2'	S 16°57.9'	233°13.3'	S 22°14.5'	229°01.8'	S 23°23.9'
22	128°33.5'	N 15°19.3'	298°27.9'	S 16°57.8'	248°15.7'	S 22°14.5'	244°02.8'	S 23°23.8'
23	143°32.9'	N 15°20.3'	313°30.6'	S 16°57.8'	263°18.1'	S 22°14.5'	259°03.8'	S 23°23.8'

Tue Apr 10, 2018 UTC

UTC	Venus -3.8 v = -0.5' d = 1.0'		Jupiter -2.3 v = 2.7' d = 0.1'		Saturn +0.5 v = 2.4' d = 0.0'		Mars +0.1 v = 1.0' d = 0.1'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	158°32.4'	N 15°21.4'	328°33.3'	S 16°57.7'	278°20.6'	S 22°14.5'	274°04.8'	S 23°23.7'
1	173°31.9'	N 15°22.4'	343°36.0'	S 16°57.7'	293°23.0'	S 22°14.5'	289°05.8'	S 23°23.6'
2	188°31.3'	N 15°23.5'	358°38.7'	S 16°57.6'	308°25.4'	S 22°14.5'	304°06.8'	S 23°23.6'
3	203°30.8'	N 15°24.5'	13°41.4'	S 16°57.5'	323°27.9'	S 22°14.5'	319°07.9'	S 23°23.5'
4	218°30.3'	N 15°25.5'	28°44.1'	S 16°57.5'	338°30.3'	S 22°14.5'	334°08.9'	S 23°23.5'
5	233°29.7'	N 15°26.6'	43°46.8'	S 16°57.4'	353°32.7'	S 22°14.5'	349°09.9'	S 23°23.4'
6	248°29.2'	N 15°27.6'	58°49.5'	S 16°57.4'	8°35.1'	S 22°14.5'	4°10.9'	S 23°23.4'
7	263°28.7'	N 15°28.7'	73°52.2'	S 16°57.3'	23°37.6'	S 22°14.5'	19°11.9'	S 23°23.3'
8	278°28.2'	N 15°29.7'	88°54.9'	S 16°57.2'	38°40.0'	S 22°14.5'	34°12.9'	S 23°23.2'
9	293°27.6'	N 15°30.7'	103°57.6'	S 16°57.2'	53°42.4'	S 22°14.5'	49°14.0'	S 23°23.2'
10	308°27.1'	N 15°31.8'	119°00.3'	S 16°57.1'	68°44.9'	S 22°14.5'	64°15.0'	S 23°23.1'
11	323°26.6'	N 15°32.8'	134°03.0'	S 16°57.0'	83°47.3'	S 22°14.5'	79°16.0'	S 23°23.1'
12	338°26.0'	N 15°33.9'	149°05.7'	S 16°57.0'	98°49.7'	S 22°14.5'	94°17.0'	S 23°23.0'
13	353°25.5'	N 15°34.9'	164°08.4'	S 16°56.9'	113°52.2'	S 22°14.5'	109°18.0'	S 23°23.0'
14	8°25.0'	N 15°35.9'	179°11.1'	S 16°56.9'	128°54.6'	S 22°14.4'	124°19.1'	S 23°22.9'
15	23°24.4'	N 15°37.0'	194°13.8'	S 16°56.8'	143°57.0'	S 22°14.4'	139°20.1'	S 23°22.8'
16	38°23.9'	N 15°38.0'	209°16.5'	S 16°56.7'	158°59.4'	S 22°14.4'	154°21.1'	S 23°22.8'
17	53°23.4'	N 15°39.0'	224°19.2'	S 16°56.7'	174°01.9'	S 22°14.4'	169°22.1'	S 23°22.7'
18	68°22.8'	N 15°40.1'	239°21.9'	S 16°56.6'	189°04.3'	S 22°14.4'	184°23.1'	S 23°22.7'
19	83°22.3'	N 15°41.1'	254°24.6'	S 16°56.5'	204°06.7'	S 22°14.4'	199°24.2'	S 23°22.6'
20	98°21.7'	N 15°42.1'	269°27.3'	S 16°56.5'	219°09.2'	S 22°14.4'	214°25.2'	S 23°22.5'
21	113°21.2'	N 15°43.2'	284°30.0'	S 16°56.4'	234°11.6'	S 22°14.4'	229°26.2'	S 23°22.5'
22	128°20.7'	N 15°44.2'	299°32.7'	S 16°56.4'	249°14.0'	S 22°14.4'	244°27.2'	S 23°22.4'
23	143°20.1'	N 15°45.2'	314°35.4'	S 16°56.3'	264°16.5'	S 22°14.4'	259°28.3'	S 23°22.4'

Wed Apr 11, 2018 UTC

UTC	Venus -3.8 v = -0.5' d = 1.0'		Jupiter -2.3 v = 2.7' d = 0.1'		Saturn +0.5 v = 2.4' d = 0.0'		Mars +0.1 v = 1.0' d = 0.1'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	158°19.6'	N 15°46.2'	329°38.1'	S 16°56.2'	279°18.9'	S 22°14.4'	274°29.3'	S 23°22.3'
1	173°19.1'	N 15°47.3'	344°40.8'	S 16°56.2'	294°21.3'	S 22°14.4'	289°30.3'	S 23°22.2'
2	188°18.5'	N 15°48.3'	359°43.5'	S 16°56.1'	309°23.8'	S 22°14.4'	304°31.3'	S 23°22.2'
3	203°18.0'	N 15°49.3'	14°46.2'	S 16°56.0'	324°26.2'	S 22°14.4'	319°32.3'	S 23°22.1'
4	218°17.4'	N 15°50.4'	29°48.9'	S 16°56.0'	339°28.6'	S 22°14.4'	334°33.4'	S 23°22.1'
5	233°16.9'	N 15°51.4'	44°51.6'	S 16°55.9'	354°31.1'	S 22°14.4'	349°34.4'	S 23°22.0'
6	248°16.4'	N 15°52.4'	59°54.3'	S 16°55.8'	9°33.5'	S 22°14.4'	4°35.4'	S 23°21.9'
7	263°15.8'	N 15°53.4'	74°57.0'	S 16°55.8'	24°35.9'	S 22°14.4'	19°36.4'	S 23°21.9'
8	278°15.3'	N 15°54.4'	89°59.7'	S 16°55.7'	39°38.4'	S 22°14.4'	34°37.5'	S 23°21.8'
9	293°14.7'	N 15°55.5'	105°02.4'	S 16°55.7'	54°40.8'	S 22°14.4'	49°38.5'	S 23°21.8'
10	308°14.2'	N 15°56.5'	120°05.1'	S 16°55.6'	69°43.2'	S 22°14.4'	64°39.5'	S 23°21.7'
11	323°13.6'	N 15°57.5'	135°07.8'	S 16°55.5'	84°45.7'	S 22°14.4'	79°40.5'	S 23°21.6'
12	338°13.1'	N 15°58.5'	150°10.5'	S 16°55.5'	99°48.1'	S 22°14.4'	94°41.6'	S 23°21.6'
13	353°12.6'	N 15°59.6'	165°13.2'	S 16°55.4'	114°50.5'	S 22°14.4'	109°42.6'	S 23°21.5'
14	8°12.0'	N 16°00.6'	180°15.9'	S 16°55.3'	129°53.0'	S 22°14.4'	124°43.6'	S 23°21.5'
15	23°11.5'	N 16°01.6'	195°18.6'	S 16°55.3'	144°55.4'	S 22°14.4'	139°44.7'	S 23°21.4'
16	38°10.9'	N 16°02.6'	210°21.3'	S 16°55.2'	159°57.8'	S 22°14.4'	154°45.7'	S 23°21.3'
17	53°10.4'	N 16°03.6'	225°24.0'	S 16°55.1'	175°00.3'	S 22°14.4'	169°46.7'	S 23°21.3'
18	68°09.8'	N 16°04.6'	240°26.7'	S 16°55.1'	190°02.7'	S 22°14.4'	184°47.7'	S 23°21.2'
19	83°09.3'	N 16°05.7'	255°29.4'	S 16°55.0'	205°05.2'	S 22°14.4'	199°48.8'	S 23°21.2'
20	98°08.7'	N 16°06.7'	270°32.1'	S 16°54.9'	220°07.6'	S 22°14.4'	214°49.8'	S 23°21.1'
21	113°08.2'	N 16°07.7'	285°34.8'	S 16°54.9'	235°10.0'	S 22°14.4'	229°50.8'	S 23°21.0'
22	128°07.6'	N 16°08.7'	300°37.5'	S 16°54.8'	250°12.5'	S 22°14.4'	244°51.9'	S 23°21.0'
23	143°07.1'	N 16°09.7'	315°40.2'	S 16°54.8'	265°14.9'	S 22°14.4'	259°52.9'	S 23°20.9'

Thu Apr 12, 2018 UTC

UTC	Venus -3.8 v = -0.6' d = 1.0'		Jupiter -2.3 v = 2.7' d = 0.1'		Saturn +0.4 v = 2.4' d = 0.0'		Mars +0.0 v = 1.0' d = 0.1'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	158°06.5'	N 16°10.7'	330°42.9'	S 16°54.7'	280°17.3'	S 22°14.4'	274°53.9'	S 23°20.8'
1	173°06.0'	N 16°11.7'	345°45.6'	S 16°54.6'	295°19.8'	S 22°14.4'	289°54.9'	S 23°20.8'
2	188°05.4'	N 16°12.8'	0°48.3'	S 16°54.6'	310°22.2'	S 22°14.4'	304°56.0'	S 23°20.7'
3	203°04.9'	N 16°13.8'	15°51.0'	S 16°54.5'	325°24.6'	S 22°14.4'	319°57.0'	S 23°20.6'
4	218°04.3'	N 16°14.8'	30°53.7'	S 16°54.4'	340°27.1'	S 22°14.4'	334°58.0'	S 23°20.6'
5	233°03.8'	N 16°15.8'	45°56.5'	S 16°54.4'	355°29.5'	S 22°14.4'	349°59.1'	S 23°20.5'
6	248°03.2'	N 16°16.8'	60°59.2'	S 16°54.3'	10°32.0'	S 22°14.4'	5°00.1'	S 23°20.5'
7	263°02.7'	N 16°17.8'	76°01.9'	S 16°54.2'	25°34.4'	S 22°14.4'	20°01.1'	S 23°20.4'
8	278°02.1'	N 16°18.8'	91°04.6'	S 16°54.2'	40°36.8'	S 22°14.3'	35°02.2'	S 23°20.3'
9	293°01.6'	N 16°19.8'	106°07.3'	S 16°54.1'	55°39.3'	S 22°14.3'	50°03.2'	S 23°20.3'
10	308°01.0'	N 16°20.8'	121°10.0'	S 16°54.0'	70°41.7'	S 22°14.3'	65°04.2'	S 23°20.2'
11	323°00.5'	N 16°21.8'	136°12.7'	S 16°54.0'	85°44.2'	S 22°14.3'	80°05.3'	S 23°20.1'
12	337°59.9'	N 16°22.8'	151°15.4'	S 16°53.9'	100°46.6'	S 22°14.3'	95°06.3'	S 23°20.1'
13	352°59.4'	N 16°23.8'	166°18.1'	S 16°53.8'	115°49.0'	S 22°14.3'	110°07.3'	S 23°20.0'
14	7°58.8'	N 16°24.8'	181°20.8'	S 16°53.8'	130°51.5'	S 22°14.3'	125°08.4'	S 23°19.9'
15	22°58.3'	N 16°25.8'	196°23.5'	S 16°53.7'	145°53.9'	S 22°14.3'	140°09.4'	S 23°19.9'
16	37°57.7'	N 16°26.8'	211°26.2'	S 16°53.7'	160°56.4'	S 22°14.3'	155°10.4'	S 23°19.8'
17	52°57.1'	N 16°27.8'	226°29.0'	S 16°53.6'	175°58.8'	S 22°14.3'	170°11.5'	S 23°19.7'
18	67°56.6'	N 16°28.8'	241°31.7'	S 16°53.5'	191°01.2'	S 22°14.3'	185°12.5'	S 23°19.7'
19	82°56.0'	N 16°29.8'	256°34.4'	S 16°53.5'	206°03.7'	S 22°14.3'	200°13.5'	S 23°19.6'
20	97°55.5'	N 16°30.8'	271°37.1'	S 16°53.4'	221°06.1'	S 22°14.3'	215°14.6'	S 23°19.6'
21	112°54.9'	N 16°31.8'	286°39.8'	S 16°53.3'	236°08.6'	S 22°14.3'	230°15.6'	S 23°19.5'
22	127°54.4'	N 16°32.8'	301°42.5'	S 16°53.3'	251°11.0'	S 22°14.3'	245°16.7'	S 23°19.4'
23	142°53.8'	N 16°33.8'	316°45.2'	S 16°53.2'	266°13.4'	S 22°14.3'	260°17.7'	S 23°19.4'

Fri Apr 13, 2018 UTC

UTC	Venus -3.8		Jupiter -2.3		Saturn +0.4		Mars +0.0	
	v = -0.6' d = 1.0'		v = 2.7' d = 0.1'		v = 2.4' d = 0.0'		v = 1.0' d = 0.1'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	157°53.2'	N 16°34.8'	331°47.9'	S 16°53.1'	281°15.9'	S 22°14.3'	275°18.7'	S 23°19.3'
1	172°52.7'	N 16°35.8'	346°50.6'	S 16°53.1'	296°18.3'	S 22°14.3'	290°19.8'	S 23°19.2'
2	187°52.1'	N 16°36.8'	1°53.3'	S 16°53.0'	311°20.8'	S 22°14.3'	305°20.8'	S 23°19.2'
3	202°51.6'	N 16°37.8'	16°56.1'	S 16°52.9'	326°23.2'	S 22°14.3'	320°21.8'	S 23°19.1'
4	217°51.0'	N 16°38.8'	31°58.8'	S 16°52.9'	341°25.6'	S 22°14.3'	335°22.9'	S 23°19.0'
5	232°50.4'	N 16°39.8'	47°01.5'	S 16°52.8'	356°28.1'	S 22°14.3'	350°23.9'	S 23°19.0'
6	247°49.9'	N 16°40.8'	62°04.2'	S 16°52.7'	11°30.5'	S 22°14.3'	5°25.0'	S 23°18.9'
7	262°49.3'	N 16°41.8'	77°06.9'	S 16°52.7'	26°33.0'	S 22°14.3'	20°26.0'	S 23°18.8'
8	277°48.7'	N 16°42.7'	92°09.6'	S 16°52.6'	41°35.4'	S 22°14.3'	35°27.0'	S 23°18.8'
9	292°48.2'	N 16°43.7'	107°12.3'	S 16°52.5'	56°37.9'	S 22°14.3'	50°28.1'	S 23°18.7'
10	307°47.6'	N 16°44.7'	122°15.0'	S 16°52.5'	71°40.3'	S 22°14.3'	65°29.1'	S 23°18.6'
11	322°47.1'	N 16°45.7'	137°17.8'	S 16°52.4'	86°42.7'	S 22°14.3'	80°30.2'	S 23°18.6'
12	337°46.5'	N 16°46.7'	152°20.5'	S 16°52.3'	101°45.2'	S 22°14.3'	95°31.2'	S 23°18.5'
13	352°45.9'	N 16°47.7'	167°23.2'	S 16°52.3'	116°47.6'	S 22°14.3'	110°32.2'	S 23°18.4'
14	7°45.4'	N 16°48.7'	182°25.9'	S 16°52.2'	131°50.1'	S 22°14.3'	125°33.3'	S 23°18.3'
15	22°44.8'	N 16°49.7'	197°28.6'	S 16°52.1'	146°52.5'	S 22°14.3'	140°34.3'	S 23°18.3'
16	37°44.2'	N 16°50.6'	212°31.3'	S 16°52.1'	161°55.0'	S 22°14.3'	155°35.4'	S 23°18.2'
17	52°43.7'	N 16°51.6'	227°34.0'	S 16°52.0'	176°57.4'	S 22°14.3'	170°36.4'	S 23°18.1'
18	67°43.1'	N 16°52.6'	242°36.8'	S 16°51.9'	191°59.9'	S 22°14.3'	185°37.5'	S 23°18.1'
19	82°42.5'	N 16°53.6'	257°39.5'	S 16°51.9'	207°02.3'	S 22°14.3'	200°38.5'	S 23°18.0'
20	97°42.0'	N 16°54.6'	272°42.2'	S 16°51.8'	222°04.7'	S 22°14.3'	215°39.5'	S 23°17.9'
21	112°41.4'	N 16°55.5'	287°44.9'	S 16°51.7'	237°07.2'	S 22°14.3'	230°40.6'	S 23°17.9'
22	127°40.8'	N 16°56.5'	302°47.6'	S 16°51.7'	252°09.6'	S 22°14.3'	245°41.6'	S 23°17.8'
23	142°40.2'	N 16°57.5'	317°50.3'	S 16°51.6'	267°12.1'	S 22°14.3'	260°42.7'	S 23°17.7'

Sat Apr 14, 2018 UTC

UTC	Venus -3.8		Jupiter -2.3		Saturn +0.4		Mars +0.0	
	v = -0.6' d = 1.0'		v = 2.7' d = 0.1'		v = 2.4' d = 0.0'		v = 1.0' d = 0.1'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	157°39.7'	N 16°58.5'	332°53.1'	S 16°51.5'	282°14.5'	S 22°14.3'	275°43.7'	S 23°17.7'
1	172°39.1'	N 16°59.5'	347°55.8'	S 16°51.5'	297°17.0'	S 22°14.3'	290°44.8'	S 23°17.6'
2	187°38.5'	N 17°00.4'	2°58.5'	S 16°51.4'	312°19.4'	S 22°14.3'	305°45.8'	S 23°17.5'
3	202°38.0'	N 17°01.4'	18°01.2'	S 16°51.3'	327°21.9'	S 22°14.3'	320°46.9'	S 23°17.5'
4	217°37.4'	N 17°02.4'	33°03.9'	S 16°51.3'	342°24.3'	S 22°14.3'	335°47.9'	S 23°17.4'
5	232°36.8'	N 17°03.4'	48°06.6'	S 16°51.2'	357°26.8'	S 22°14.3'	350°48.9'	S 23°17.3'
6	247°36.2'	N 17°04.3'	63°09.4'	S 16°51.1'	12°29.2'	S 22°14.3'	5°50.0'	S 23°17.2'
7	262°35.7'	N 17°05.3'	78°12.1'	S 16°51.1'	27°31.7'	S 22°14.3'	20°51.0'	S 23°17.2'
8	277°35.1'	N 17°06.3'	93°14.8'	S 16°51.0'	42°34.1'	S 22°14.3'	35°52.1'	S 23°17.1'
9	292°34.5'	N 17°07.2'	108°17.5'	S 16°50.9'	57°36.6'	S 22°14.3'	50°53.1'	S 23°17.0'
10	307°33.9'	N 17°08.2'	123°20.2'	S 16°50.9'	72°39.0'	S 22°14.3'	65°54.2'	S 23°17.0'
11	322°33.4'	N 17°09.2'	138°22.9'	S 16°50.8'	87°41.4'	S 22°14.3'	80°55.2'	S 23°16.9'
12	337°32.8'	N 17°10.2'	153°25.7'	S 16°50.7'	102°43.9'	S 22°14.3'	95°56.3'	S 23°16.8'
13	352°32.2'	N 17°11.1'	168°28.4'	S 16°50.6'	117°46.3'	S 22°14.3'	110°57.3'	S 23°16.8'
14	7°31.6'	N 17°12.1'	183°31.1'	S 16°50.6'	132°48.8'	S 22°14.3'	125°58.4'	S 23°16.7'
15	22°31.1'	N 17°13.1'	198°33.8'	S 16°50.5'	147°51.2'	S 22°14.3'	140°59.4'	S 23°16.6'
16	37°30.5'	N 17°14.0'	213°36.5'	S 16°50.4'	162°53.7'	S 22°14.2'	156°00.5'	S 23°16.5'
17	52°29.9'	N 17°15.0'	228°39.3'	S 16°50.4'	177°56.1'	S 22°14.2'	171°01.5'	S 23°16.5'
18	67°29.3'	N 17°15.9'	243°42.0'	S 16°50.3'	192°58.6'	S 22°14.2'	186°02.6'	S 23°16.4'
19	82°28.7'	N 17°16.9'	258°44.7'	S 16°50.2'	208°01.0'	S 22°14.2'	201°03.6'	S 23°16.3'
20	97°28.2'	N 17°17.9'	273°47.4'	S 16°50.2'	223°03.5'	S 22°14.2'	216°04.7'	S 23°16.3'
21	112°27.6'	N 17°18.8'	288°50.1'	S 16°50.1'	238°05.9'	S 22°14.2'	231°05.7'	S 23°16.2'
22	127°27.0'	N 17°19.8'	303°52.9'	S 16°50.0'	253°08.4'	S 22°14.2'	246°06.8'	S 23°16.1'
23	142°26.4'	N 17°20.8'	318°55.6'	S 16°50.0'	268°10.8'	S 22°14.2'	261°07.8'	S 23°16.0'

Sun Apr 15, 2018 UTC

UTC	Venus -3.8 v = -0.6' d = 0.9'		Jupiter -2.3 v = 2.7' d = 0.1'		Saturn +0.4 v = 2.5' d = 0.0'		Mars -0.0 v = 1.1' d = 0.1'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	157°25.8'	N 17°21.7'	333°58.3'	S 16°49.9'	283°13.3'	S 22°14.2'	276°08.9'	S 23°16.0'
1	172°25.3'	N 17°22.7'	349°01.0'	S 16°49.8'	298°15.7'	S 22°14.2'	291°09.9'	S 23°15.9'
2	187°24.7'	N 17°23.6'	4°03.7'	S 16°49.8'	313°18.2'	S 22°14.2'	306°11.0'	S 23°15.8'
3	202°24.1'	N 17°24.6'	19°06.5'	S 16°49.7'	328°20.6'	S 22°14.2'	321°12.1'	S 23°15.7'
4	217°23.5'	N 17°25.5'	34°09.2'	S 16°49.6'	343°23.1'	S 22°14.2'	336°13.1'	S 23°15.7'
5	232°22.9'	N 17°26.5'	49°11.9'	S 16°49.6'	358°25.5'	S 22°14.2'	351°14.2'	S 23°15.6'
6	247°22.3'	N 17°27.5'	64°14.6'	S 16°49.5'	13°28.0'	S 22°14.2'	6°15.2'	S 23°15.5'
7	262°21.8'	N 17°28.4'	79°17.4'	S 16°49.4'	28°30.4'	S 22°14.2'	21°16.3'	S 23°15.5'
8	277°21.2'	N 17°29.4'	94°20.1'	S 16°49.3'	43°32.9'	S 22°14.2'	36°17.3'	S 23°15.4'
9	292°20.6'	N 17°30.3'	109°22.8'	S 16°49.3'	58°35.3'	S 22°14.2'	51°18.4'	S 23°15.3'
10	307°20.0'	N 17°31.3'	124°25.5'	S 16°49.2'	73°37.8'	S 22°14.2'	66°19.4'	S 23°15.2'
11	322°19.4'	N 17°32.2'	139°28.3'	S 16°49.1'	88°40.3'	S 22°14.2'	81°20.5'	S 23°15.2'
12	337°18.8'	N 17°33.2'	154°31.0'	S 16°49.1'	103°42.7'	S 22°14.2'	96°21.6'	S 23°15.1'
13	352°18.2'	N 17°34.1'	169°33.7'	S 16°49.0'	118°45.2'	S 22°14.2'	111°22.6'	S 23°15.0'
14	7°17.7'	N 17°35.1'	184°36.4'	S 16°48.9'	133°47.6'	S 22°14.2'	126°23.7'	S 23°14.9'
15	22°17.1'	N 17°36.0'	199°39.1'	S 16°48.9'	148°50.1'	S 22°14.2'	141°24.7'	S 23°14.9'
16	37°16.5'	N 17°37.0'	214°41.9'	S 16°48.8'	163°52.5'	S 22°14.2'	156°25.8'	S 23°14.8'
17	52°15.9'	N 17°37.9'	229°44.6'	S 16°48.7'	178°55.0'	S 22°14.2'	171°26.8'	S 23°14.7'
18	67°15.3'	N 17°38.9'	244°47.3'	S 16°48.7'	193°57.4'	S 22°14.2'	186°27.9'	S 23°14.6'
19	82°14.7'	N 17°39.8'	259°50.0'	S 16°48.6'	208°59.9'	S 22°14.2'	201°29.0'	S 23°14.6'
20	97°14.1'	N 17°40.7'	274°52.8'	S 16°48.5'	224°02.3'	S 22°14.2'	216°30.0'	S 23°14.5'
21	112°13.5'	N 17°41.7'	289°55.5'	S 16°48.4'	239°04.8'	S 22°14.2'	231°31.1'	S 23°14.4'
22	127°12.9'	N 17°42.6'	304°58.2'	S 16°48.4'	254°07.2'	S 22°14.2'	246°32.1'	S 23°14.3'
23	142°12.3'	N 17°43.6'	320°00.9'	S 16°48.3'	269°09.7'	S 22°14.2'	261°33.2'	S 23°14.3'

Mon Apr 16, 2018 UTC

UTC	Venus -3.8 v = -0.6' d = 0.9'		Jupiter -2.3 v = 2.7' d = 0.1'		Saturn +0.4 v = 2.5' d = 0.0'		Mars -0.0 v = 1.1' d = 0.1'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	157°11.8'	N 17°44.5'	335°03.7'	S 16°48.2'	284°12.2'	S 22°14.2'	276°34.3'	S 23°14.2'
1	172°11.2'	N 17°45.5'	350°06.4'	S 16°48.2'	299°14.6'	S 22°14.2'	291°35.3'	S 23°14.1'
2	187°10.6'	N 17°46.4'	5°09.1'	S 16°48.1'	314°17.1'	S 22°14.2'	306°36.4'	S 23°14.0'
3	202°10.0'	N 17°47.3'	20°11.9'	S 16°48.0'	329°19.5'	S 22°14.2'	321°37.5'	S 23°14.0'
4	217°09.4'	N 17°48.3'	35°14.6'	S 16°48.0'	344°22.0'	S 22°14.2'	336°38.5'	S 23°13.9'
5	232°08.8'	N 17°49.2'	50°17.3'	S 16°47.9'	359°24.4'	S 22°14.2'	351°39.6'	S 23°13.8'
6	247°08.2'	N 17°50.1'	65°20.0'	S 16°47.8'	14°26.9'	S 22°14.2'	6°40.6'	S 23°13.7'
7	262°07.6'	N 17°51.1'	80°22.8'	S 16°47.7'	29°29.3'	S 22°14.2'	21°41.7'	S 23°13.7'
8	277°07.0'	N 17°52.0'	95°25.5'	S 16°47.7'	44°31.8'	S 22°14.2'	36°42.8'	S 23°13.6'
9	292°06.4'	N 17°52.9'	110°28.2'	S 16°47.6'	59°34.3'	S 22°14.2'	51°43.8'	S 23°13.5'
10	307°05.8'	N 17°53.9'	125°30.9'	S 16°47.5'	74°36.7'	S 22°14.2'	66°44.9'	S 23°13.4'
11	322°05.2'	N 17°54.8'	140°33.7'	S 16°47.5'	89°39.2'	S 22°14.2'	81°46.0'	S 23°13.4'
12	337°04.6'	N 17°55.7'	155°36.4'	S 16°47.4'	104°41.6'	S 22°14.2'	96°47.0'	S 23°13.3'
13	352°04.0'	N 17°56.7'	170°39.1'	S 16°47.3'	119°44.1'	S 22°14.2'	111°48.1'	S 23°13.2'
14	7°03.4'	N 17°57.6'	185°41.9'	S 16°47.3'	134°46.5'	S 22°14.2'	126°49.2'	S 23°13.1'
15	22°02.8'	N 17°58.5'	200°44.6'	S 16°47.2'	149°49.0'	S 22°14.2'	141°50.2'	S 23°13.1'
16	37°02.2'	N 17°59.5'	215°47.3'	S 16°47.1'	164°51.5'	S 22°14.2'	156°51.3'	S 23°13.0'
17	52°01.6'	N 18°00.4'	230°50.1'	S 16°47.0'	179°53.9'	S 22°14.2'	171°52.4'	S 23°12.9'
18	67°01.0'	N 18°01.3'	245°52.8'	S 16°47.0'	194°56.4'	S 22°14.2'	186°53.4'	S 23°12.8'
19	82°00.4'	N 18°02.2'	260°55.5'	S 16°46.9'	209°58.8'	S 22°14.2'	201°54.5'	S 23°12.7'
20	96°59.8'	N 18°03.2'	275°58.2'	S 16°46.8'	225°01.3'	S 22°14.2'	216°55.6'	S 23°12.7'
21	111°59.2'	N 18°04.1'	291°01.0'	S 16°46.8'	240°03.7'	S 22°14.2'	231°56.6'	S 23°12.6'
22	126°58.6'	N 18°05.0'	306°03.7'	S 16°46.7'	255°06.2'	S 22°14.2'	246°57.7'	S 23°12.5'
23	141°58.0'	N 18°05.9'	321°06.4'	S 16°46.6'	270°08.7'	S 22°14.2'	261°58.8'	S 23°12.4'

Tue Apr 17, 2018 UTC

UTC	Venus -3.8		Jupiter -2.3		Saturn +0.4		Mars -0.1	
	v = -0.6' d = 0.9'		v = 2.7' d = 0.1'		v = 2.5' d = 0.0'		v = 1.1' d = 0.1'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	156°57.4'	N 18°06.9'	336°09.2'	S 16°46.5'	285°11.1'	S 22°14.2'	276°59.8'	S 23°12.4'
1	171°56.8'	N 18°07.8'	351°11.9'	S 16°46.5'	300°13.6'	S 22°14.2'	292°00.9'	S 23°12.3'
2	186°56.2'	N 18°08.7'	6°14.6'	S 16°46.4'	315°16.0'	S 22°14.2'	307°02.0'	S 23°12.2'
3	201°55.6'	N 18°09.6'	21°17.4'	S 16°46.3'	330°18.5'	S 22°14.2'	322°03.0'	S 23°12.1'
4	216°55.0'	N 18°10.5'	36°20.1'	S 16°46.3'	345°21.0'	S 22°14.2'	337°04.1'	S 23°12.0'
5	231°54.4'	N 18°11.5'	51°22.8'	S 16°46.2'	0°23.4'	S 22°14.2'	352°05.2'	S 23°12.0'
6	246°53.8'	N 18°12.4'	66°25.6'	S 16°46.1'	15°25.9'	S 22°14.2'	7°06.3'	S 23°11.9'
7	261°53.2'	N 18°13.3'	81°28.3'	S 16°46.0'	30°28.3'	S 22°14.2'	22°07.3'	S 23°11.8'
8	276°52.6'	N 18°14.2'	96°31.0'	S 16°46.0'	45°30.8'	S 22°14.2'	37°08.4'	S 23°11.7'
9	291°51.9'	N 18°15.1'	111°33.8'	S 16°45.9'	60°33.3'	S 22°14.2'	52°09.5'	S 23°11.7'
10	306°51.3'	N 18°16.0'	126°36.5'	S 16°45.8'	75°35.7'	S 22°14.2'	67°10.5'	S 23°11.6'
11	321°50.7'	N 18°16.9'	141°39.2'	S 16°45.8'	90°38.2'	S 22°14.2'	82°11.6'	S 23°11.5'
12	336°50.1'	N 18°17.9'	156°42.0'	S 16°45.7'	105°40.6'	S 22°14.2'	97°12.7'	S 23°11.4'
13	351°49.5'	N 18°18.8'	171°44.7'	S 16°45.6'	120°43.1'	S 22°14.2'	112°13.8'	S 23°11.3'
14	6°48.9'	N 18°19.7'	186°47.4'	S 16°45.5'	135°45.6'	S 22°14.2'	127°14.8'	S 23°11.3'
15	21°48.3'	N 18°20.6'	201°50.2'	S 16°45.5'	150°48.0'	S 22°14.2'	142°15.9'	S 23°11.2'
16	36°47.7'	N 18°21.5'	216°52.9'	S 16°45.4'	165°50.5'	S 22°14.2'	157°17.0'	S 23°11.1'
17	51°47.1'	N 18°22.4'	231°55.6'	S 16°45.3'	180°53.0'	S 22°14.2'	172°18.1'	S 23°11.0'
18	66°46.5'	N 18°23.3'	246°58.4'	S 16°45.3'	195°55.4'	S 22°14.2'	187°19.1'	S 23°10.9'
19	81°45.8'	N 18°24.2'	262°01.1'	S 16°45.2'	210°57.9'	S 22°14.2'	202°20.2'	S 23°10.9'
20	96°45.2'	N 18°25.1'	277°03.8'	S 16°45.1'	226°00.3'	S 22°14.2'	217°21.3'	S 23°10.8'
21	111°44.6'	N 18°26.0'	292°06.6'	S 16°45.0'	241°02.8'	S 22°14.2'	232°22.4'	S 23°10.7'
22	126°44.0'	N 18°26.9'	307°09.3'	S 16°45.0'	256°05.3'	S 22°14.2'	247°23.4'	S 23°10.6'
23	141°43.4'	N 18°27.8'	322°12.0'	S 16°44.9'	271°07.7'	S 22°14.2'	262°24.5'	S 23°10.5'

Wed Apr 18, 2018 UTC

UTC	Venus -3.8		Jupiter -2.3		Saturn +0.4		Mars -0.1	
	v = -0.6' d = 0.9'		v = 2.7' d = 0.1'		v = 2.5' d = 0.0'		v = 1.1' d = 0.1'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	156°42.8'	N 18°28.7'	337°14.8'	S 16°44.8'	286°10.2'	S 22°14.2'	277°25.6'	S 23°10.5'
1	171°42.2'	N 18°29.6'	352°17.5'	S 16°44.8'	301°12.7'	S 22°14.2'	292°26.7'	S 23°10.4'
2	186°41.5'	N 18°30.5'	7°20.2'	S 16°44.7'	316°15.1'	S 22°14.2'	307°27.8'	S 23°10.3'
3	201°40.9'	N 18°31.4'	22°23.0'	S 16°44.6'	331°17.6'	S 22°14.2'	322°28.8'	S 23°10.2'
4	216°40.3'	N 18°32.3'	37°25.7'	S 16°44.5'	346°20.1'	S 22°14.2'	337°29.9'	S 23°10.1'
5	231°39.7'	N 18°33.2'	52°28.4'	S 16°44.5'	1°22.5'	S 22°14.2'	352°31.0'	S 23°10.1'
6	246°39.1'	N 18°34.1'	67°31.2'	S 16°44.4'	16°25.0'	S 22°14.2'	7°32.1'	S 23°10.0'
7	261°38.5'	N 18°35.0'	82°33.9'	S 16°44.3'	31°27.5'	S 22°14.2'	22°33.1'	S 23°09.9'
8	276°37.8'	N 18°35.9'	97°36.7'	S 16°44.2'	46°29.9'	S 22°14.2'	37°34.2'	S 23°09.8'
9	291°37.2'	N 18°36.8'	112°39.4'	S 16°44.2'	61°32.4'	S 22°14.2'	52°35.3'	S 23°09.7'
10	306°36.6'	N 18°37.7'	127°42.1'	S 16°44.1'	76°34.8'	S 22°14.2'	67°36.4'	S 23°09.6'
11	321°36.0'	N 18°38.6'	142°44.9'	S 16°44.0'	91°37.3'	S 22°14.2'	82°37.5'	S 23°09.6'
12	336°35.4'	N 18°39.5'	157°47.6'	S 16°44.0'	106°39.8'	S 22°14.2'	97°38.6'	S 23°09.5'
13	351°34.7'	N 18°40.4'	172°50.3'	S 16°43.9'	121°42.2'	S 22°14.2'	112°39.6'	S 23°09.4'
14	6°34.1'	N 18°41.3'	187°53.1'	S 16°43.8'	136°44.7'	S 22°14.2'	127°40.7'	S 23°09.3'
15	21°33.5'	N 18°42.2'	202°55.8'	S 16°43.7'	151°47.2'	S 22°14.2'	142°41.8'	S 23°09.2'
16	36°32.9'	N 18°43.1'	217°58.6'	S 16°43.7'	166°49.6'	S 22°14.2'	157°42.9'	S 23°09.2'
17	51°32.3'	N 18°43.9'	233°01.3'	S 16°43.6'	181°52.1'	S 22°14.2'	172°44.0'	S 23°09.1'
18	66°31.6'	N 18°44.8'	248°04.0'	S 16°43.5'	196°54.6'	S 22°14.2'	187°45.1'	S 23°09.0'
19	81°31.0'	N 18°45.7'	263°06.8'	S 16°43.4'	211°57.0'	S 22°14.2'	202°46.1'	S 23°08.9'
20	96°30.4'	N 18°46.6'	278°09.5'	S 16°43.4'	226°59.5'	S 22°14.2'	217°47.2'	S 23°08.8'
21	111°29.8'	N 18°47.5'	293°12.3'	S 16°43.3'	242°02.0'	S 22°14.2'	232°48.3'	S 23°08.7'
22	126°29.1'	N 18°48.4'	308°15.0'	S 16°43.2'	257°04.5'	S 22°14.2'	247°49.4'	S 23°08.7'
23	141°28.5'	N 18°49.3'	323°17.7'	S 16°43.2'	272°06.9'	S 22°14.2'	262°50.5'	S 23°08.6'

Thu Apr 19, 2018 UTC

UTC	Venus -3.8		Jupiter -2.3		Saturn +0.4		Mars -0.1	
	v = -0.6' d = 0.9'		v = 2.7' d = 0.1'		v = 2.5' d = 0.0'		v = 1.1' d = 0.1'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	156°27.9'	N 18°50.1'	338°20.5'	S 16°43.1'	287°09.4'	S 22°14.2'	277°51.6'	S 23°08.5'
1	171°27.3'	N 18°51.0'	353°23.2'	S 16°43.0'	302°11.9'	S 22°14.2'	292°52.7'	S 23°08.4'
2	186°26.6'	N 18°51.9'	8°26.0'	S 16°42.9'	317°14.3'	S 22°14.2'	307°53.7'	S 23°08.3'
3	201°26.0'	N 18°52.8'	23°28.7'	S 16°42.9'	332°16.8'	S 22°14.2'	322°54.8'	S 23°08.2'
4	216°25.4'	N 18°53.7'	38°31.4'	S 16°42.8'	347°19.3'	S 22°14.2'	337°55.9'	S 23°08.2'
5	231°24.7'	N 18°54.5'	53°34.2'	S 16°42.7'	2°21.7'	S 22°14.2'	352°57.0'	S 23°08.1'
6	246°24.1'	N 18°55.4'	68°36.9'	S 16°42.6'	17°24.2'	S 22°14.2'	7°58.1'	S 23°08.0'
7	261°23.5'	N 18°56.3'	83°39.7'	S 16°42.6'	32°26.7'	S 22°14.2'	22°59.2'	S 23°07.9'
8	276°22.9'	N 18°57.2'	98°42.4'	S 16°42.5'	47°29.1'	S 22°14.2'	38°00.3'	S 23°07.8'
9	291°22.2'	N 18°58.0'	113°45.1'	S 16°42.4'	62°31.6'	S 22°14.2'	53°01.4'	S 23°07.7'
10	306°21.6'	N 18°58.9'	128°47.9'	S 16°42.3'	77°34.1'	S 22°14.2'	68°02.4'	S 23°07.7'
11	321°21.0'	N 18°59.8'	143°50.6'	S 16°42.3'	92°36.5'	S 22°14.2'	83°03.5'	S 23°07.6'
12	336°20.3'	N 19°00.7'	158°53.4'	S 16°42.2'	107°39.0'	S 22°14.2'	98°04.6'	S 23°07.5'
13	351°19.7'	N 19°01.5'	173°56.1'	S 16°42.1'	122°41.5'	S 22°14.2'	113°05.7'	S 23°07.4'
14	6°19.1'	N 19°02.4'	188°58.8'	S 16°42.1'	137°44.0'	S 22°14.2'	128°06.8'	S 23°07.3'
15	21°18.4'	N 19°03.3'	204°01.6'	S 16°42.0'	152°46.4'	S 22°14.2'	143°07.9'	S 23°07.2'
16	36°17.8'	N 19°04.1'	219°04.3'	S 16°41.9'	167°48.9'	S 22°14.2'	158°09.0'	S 23°07.2'
17	51°17.2'	N 19°05.0'	234°07.1'	S 16°41.8'	182°51.4'	S 22°14.2'	173°10.1'	S 23°07.1'
18	66°16.5'	N 19°05.9'	249°09.8'	S 16°41.8'	197°53.8'	S 22°14.2'	188°11.2'	S 23°07.0'
19	81°15.9'	N 19°06.7'	264°12.6'	S 16°41.7'	212°56.3'	S 22°14.2'	203°12.3'	S 23°06.9'
20	96°15.3'	N 19°07.6'	279°15.3'	S 16°41.6'	227°58.8'	S 22°14.2'	218°13.4'	S 23°06.8'
21	111°14.6'	N 19°08.5'	294°18.0'	S 16°41.5'	243°01.3'	S 22°14.2'	233°14.5'	S 23°06.7'
22	126°14.0'	N 19°09.3'	309°20.8'	S 16°41.5'	258°03.7'	S 22°14.2'	248°15.6'	S 23°06.6'
23	141°13.4'	N 19°10.2'	324°23.5'	S 16°41.4'	273°06.2'	S 22°14.2'	263°16.6'	S 23°06.6'

Fri Apr 20, 2018 UTC

UTC	Venus -3.8		Jupiter -2.3		Saturn +0.4		Mars -0.1	
	v = -0.6' d = 0.9'		v = 2.7' d = 0.1'		v = 2.5' d = 0.0'		v = 1.1' d = 0.1'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	156°12.7'	N 19°11.1'	339°26.3'	S 16°41.3'	288°08.7'	S 22°14.2'	278°17.7'	S 23°06.5'
1	171°12.1'	N 19°11.9'	354°29.0'	S 16°41.2'	303°11.1'	S 22°14.2'	293°18.8'	S 23°06.4'
2	186°11.5'	N 19°12.8'	9°31.8'	S 16°41.2'	318°13.6'	S 22°14.2'	308°19.9'	S 23°06.3'
3	201°10.8'	N 19°13.6'	24°34.5'	S 16°41.1'	333°16.1'	S 22°14.2'	323°21.0'	S 23°06.2'
4	216°10.2'	N 19°14.5'	39°37.3'	S 16°41.0'	348°18.6'	S 22°14.2'	338°22.1'	S 23°06.1'
5	231°09.5'	N 19°15.3'	54°40.0'	S 16°40.9'	3°21.0'	S 22°14.2'	353°23.2'	S 23°06.1'
6	246°08.9'	N 19°16.2'	69°42.7'	S 16°40.9'	18°23.5'	S 22°14.2'	8°24.3'	S 23°06.0'
7	261°08.3'	N 19°17.1'	84°45.5'	S 16°40.8'	33°26.0'	S 22°14.2'	23°25.4'	S 23°05.9'
8	276°07.6'	N 19°17.9'	99°48.2'	S 16°40.7'	48°28.5'	S 22°14.2'	38°26.5'	S 23°05.8'
9	291°07.0'	N 19°18.8'	114°51.0'	S 16°40.6'	63°30.9'	S 22°14.2'	53°27.6'	S 23°05.7'
10	306°06.3'	N 19°19.6'	129°53.7'	S 16°40.6'	78°33.4'	S 22°14.2'	68°28.7'	S 23°05.6'
11	321°05.7'	N 19°20.5'	144°56.5'	S 16°40.5'	93°35.9'	S 22°14.2'	83°29.8'	S 23°05.5'
12	336°05.0'	N 19°21.3'	159°59.2'	S 16°40.4'	108°38.4'	S 22°14.2'	98°30.9'	S 23°05.5'
13	351°04.4'	N 19°22.2'	175°02.0'	S 16°40.3'	123°40.8'	S 22°14.2'	113°32.0'	S 23°05.4'
14	6°03.8'	N 19°23.0'	190°04.7'	S 16°40.3'	138°43.3'	S 22°14.2'	128°33.1'	S 23°05.3'
15	21°03.1'	N 19°23.9'	205°07.5'	S 16°40.2'	153°45.8'	S 22°14.2'	143°34.2'	S 23°05.2'
16	36°02.5'	N 19°24.7'	220°10.2'	S 16°40.1'	168°48.3'	S 22°14.2'	158°35.3'	S 23°05.1'
17	51°01.8'	N 19°25.6'	235°13.0'	S 16°40.0'	183°50.7'	S 22°14.2'	173°36.4'	S 23°05.0'
18	66°01.2'	N 19°26.4'	250°15.7'	S 16°40.0'	198°53.2'	S 22°14.2'	188°37.5'	S 23°04.9'
19	81°00.5'	N 19°27.3'	265°18.4'	S 16°39.9'	213°55.7'	S 22°14.2'	203°38.6'	S 23°04.8'
20	95°59.9'	N 19°28.1'	280°21.2'	S 16°39.8'	228°58.2'	S 22°14.2'	218°39.7'	S 23°04.8'
21	110°59.2'	N 19°28.9'	295°23.9'	S 16°39.7'	244°00.6'	S 22°14.2'	233°40.8'	S 23°04.7'
22	125°58.6'	N 19°29.8'	310°26.7'	S 16°39.7'	259°03.1'	S 22°14.2'	248°41.9'	S 23°04.6'
23	140°58.0'	N 19°30.6'	325°29.4'	S 16°39.6'	274°05.6'	S 22°14.2'	263°43.0'	S 23°04.5'

Sat Apr 21, 2018 UTC

UTC	Venus -3.8 v = -0.7' d = 0.8'		Jupiter -2.3 v = 2.7' d = 0.1'		Saturn +0.4 v = 2.5' d = 0.0'		Mars -0.2 v = 1.1' d = 0.1'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	155°57.3'	N 19°31.5'	340°32.2'	S 16°39.5'	289°08.1'	S 22°14.2'	278°44.1'	S 23°04.4'
1	170°56.7'	N 19°32.3'	355°34.9'	S 16°39.4'	304°10.6'	S 22°14.2'	293°45.2'	S 23°04.3'
2	185°56.0'	N 19°33.1'	10°37.7'	S 16°39.4'	319°13.0'	S 22°14.2'	308°46.3'	S 23°04.2'
3	200°55.4'	N 19°34.0'	25°40.4'	S 16°39.3'	334°15.5'	S 22°14.2'	323°47.4'	S 23°04.1'
4	215°54.7'	N 19°34.8'	40°43.2'	S 16°39.2'	349°18.0'	S 22°14.2'	338°48.5'	S 23°04.1'
5	230°54.1'	N 19°35.7'	55°45.9'	S 16°39.1'	4°20.5'	S 22°14.2'	353°49.7'	S 23°04.0'
6	245°53.4'	N 19°36.5'	70°48.7'	S 16°39.1'	19°22.9'	S 22°14.2'	8°50.8'	S 23°03.9'
7	260°52.8'	N 19°37.3'	85°51.4'	S 16°39.0'	34°25.4'	S 22°14.2'	23°51.9'	S 23°03.8'
8	275°52.1'	N 19°38.2'	100°54.2'	S 16°38.9'	49°27.9'	S 22°14.2'	38°53.0'	S 23°03.7'
9	290°51.5'	N 19°39.0'	115°56.9'	S 16°38.8'	64°30.4'	S 22°14.2'	53°54.1'	S 23°03.6'
10	305°50.8'	N 19°39.8'	130°59.7'	S 16°38.8'	79°32.9'	S 22°14.2'	68°55.2'	S 23°03.5'
11	320°50.2'	N 19°40.6'	146°02.4'	S 16°38.7'	94°35.3'	S 22°14.2'	83°56.3'	S 23°03.4'
12	335°49.5'	N 19°41.5'	161°05.2'	S 16°38.6'	109°37.8'	S 22°14.2'	98°57.4'	S 23°03.4'
13	350°48.8'	N 19°42.3'	176°07.9'	S 16°38.5'	124°40.3'	S 22°14.2'	113°58.5'	S 23°03.3'
14	5°48.2'	N 19°43.1'	191°10.7'	S 16°38.5'	139°42.8'	S 22°14.2'	128°59.6'	S 23°03.2'
15	20°47.5'	N 19°44.0'	206°13.4'	S 16°38.4'	154°45.3'	S 22°14.2'	144°00.7'	S 23°03.1'
16	35°46.9'	N 19°44.8'	221°16.2'	S 16°38.3'	169°47.7'	S 22°14.2'	159°01.8'	S 23°03.0'
17	50°46.2'	N 19°45.6'	236°18.9'	S 16°38.2'	184°50.2'	S 22°14.2'	174°02.9'	S 23°02.9'
18	65°45.6'	N 19°46.4'	251°21.7'	S 16°38.2'	199°52.7'	S 22°14.2'	189°04.1'	S 23°02.8'
19	80°44.9'	N 19°47.3'	266°24.4'	S 16°38.1'	214°55.2'	S 22°14.2'	204°05.2'	S 23°02.7'
20	95°44.3'	N 19°48.1'	281°27.2'	S 16°38.0'	229°57.7'	S 22°14.2'	219°06.3'	S 23°02.6'
21	110°43.6'	N 19°48.9'	296°29.9'	S 16°37.9'	245°00.1'	S 22°14.2'	234°07.4'	S 23°02.6'
22	125°42.9'	N 19°49.7'	311°32.7'	S 16°37.9'	260°02.6'	S 22°14.2'	249°08.5'	S 23°02.5'
23	140°42.3'	N 19°50.5'	326°35.4'	S 16°37.8'	275°05.1'	S 22°14.2'	264°09.6'	S 23°02.4'

Sun Apr 22, 2018 UTC

UTC	Venus -3.8 v = -0.7' d = 0.8'		Jupiter -2.3 v = 2.8' d = 0.1'		Saturn +0.4 v = 2.5' d = 0.0'		Mars -0.2 v = 1.1' d = 0.1'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	155°41.6'	N 19°51.4'	341°38.2'	S 16°37.7'	290°07.6'	S 22°14.2'	279°10.7'	S 23°02.3'
1	170°41.0'	N 19°52.2'	356°40.9'	S 16°37.6'	305°10.1'	S 22°14.2'	294°11.8'	S 23°02.2'
2	185°40.3'	N 19°53.0'	11°43.7'	S 16°37.5'	320°12.5'	S 22°14.2'	309°13.0'	S 23°02.1'
3	200°39.6'	N 19°53.8'	26°46.4'	S 16°37.5'	335°15.0'	S 22°14.2'	324°14.1'	S 23°02.0'
4	215°39.0'	N 19°54.6'	41°49.2'	S 16°37.4'	350°17.5'	S 22°14.2'	339°15.2'	S 23°01.9'
5	230°38.3'	N 19°55.4'	56°51.9'	S 16°37.3'	5°20.0'	S 22°14.2'	354°16.3'	S 23°01.8'
6	245°37.7'	N 19°56.3'	71°54.7'	S 16°37.2'	20°22.5'	S 22°14.2'	9°17.4'	S 23°01.7'
7	260°37.0'	N 19°57.1'	86°57.4'	S 16°37.2'	35°25.0'	S 22°14.2'	24°18.5'	S 23°01.7'
8	275°36.3'	N 19°57.9'	102°00.2'	S 16°37.1'	50°27.4'	S 22°14.2'	39°19.6'	S 23°01.6'
9	290°35.7'	N 19°58.7'	117°03.0'	S 16°37.0'	65°29.9'	S 22°14.2'	54°20.8'	S 23°01.5'
10	305°35.0'	N 19°59.5'	132°05.7'	S 16°36.9'	80°32.4'	S 22°14.2'	69°21.9'	S 23°01.4'
11	320°34.3'	N 20°00.3'	147°08.5'	S 16°36.9'	95°34.9'	S 22°14.2'	84°23.0'	S 23°01.3'
12	335°33.7'	N 20°01.1'	162°11.2'	S 16°36.8'	110°37.4'	S 22°14.2'	99°24.1'	S 23°01.2'
13	350°33.0'	N 20°01.9'	177°14.0'	S 16°36.7'	125°39.9'	S 22°14.2'	114°25.2'	S 23°01.1'
14	5°32.4'	N 20°02.7'	192°16.7'	S 16°36.6'	140°42.3'	S 22°14.2'	129°26.3'	S 23°01.0'
15	20°31.7'	N 20°03.5'	207°19.5'	S 16°36.6'	155°44.8'	S 22°14.2'	144°27.5'	S 23°00.9'
16	35°31.0'	N 20°04.3'	222°22.2'	S 16°36.5'	170°47.3'	S 22°14.2'	159°28.6'	S 23°00.8'
17	50°30.4'	N 20°05.1'	237°25.0'	S 16°36.4'	185°49.8'	S 22°14.2'	174°29.7'	S 23°00.8'
18	65°29.7'	N 20°05.9'	252°27.7'	S 16°36.3'	200°52.3'	S 22°14.2'	189°30.8'	S 23°00.7'
19	80°29.0'	N 20°06.7'	267°30.5'	S 16°36.2'	215°54.8'	S 22°14.2'	204°31.9'	S 23°00.6'
20	95°28.4'	N 20°07.5'	282°33.2'	S 16°36.2'	230°57.2'	S 22°14.2'	219°33.1'	S 23°00.5'
21	110°27.7'	N 20°08.3'	297°36.0'	S 16°36.1'	245°59.7'	S 22°14.2'	234°34.2'	S 23°00.4'
22	125°27.0'	N 20°09.1'	312°38.8'	S 16°36.0'	261°02.2'	S 22°14.2'	249°35.3'	S 23°00.3'
23	140°26.4'	N 20°09.9'	327°41.5'	S 16°35.9'	276°04.7'	S 22°14.2'	264°36.4'	S 23°00.2'

Mon Apr 23, 2018 UTC

UTC	Venus -3.8		Jupiter -2.3		Saturn +0.4		Mars -0.2	
	v = -0.7' d = 0.8'		v = 2.8' d = 0.1'		v = 2.5' d = 0.0'		v = 1.1' d = 0.1'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	155°25.7'	N 20°10.7'	342°44.3'	S 16°35.9'	291°07.2'	S 22°14.2'	279°37.6'	S 23°00.1'
1	170°25.0'	N 20°11.5'	357°47.0'	S 16°35.8'	306°09.7'	S 22°14.2'	294°38.7'	S 23°00.0'
2	185°24.3'	N 20°12.3'	12°49.8'	S 16°35.7'	321°12.2'	S 22°14.2'	309°39.8'	S 22°59.9'
3	200°23.7'	N 20°13.1'	27°52.5'	S 16°35.6'	336°14.6'	S 22°14.2'	324°40.9'	S 22°59.8'
4	215°23.0'	N 20°13.9'	42°55.3'	S 16°35.6'	351°17.1'	S 22°14.2'	339°42.0'	S 22°59.7'
5	230°22.3'	N 20°14.7'	57°58.0'	S 16°35.5'	6°19.6'	S 22°14.2'	354°43.2'	S 22°59.7'
6	245°21.7'	N 20°15.5'	73°00.8'	S 16°35.4'	21°22.1'	S 22°14.2'	9°44.3'	S 22°59.6'
7	260°21.0'	N 20°16.3'	88°03.6'	S 16°35.3'	36°24.6'	S 22°14.2'	24°45.4'	S 22°59.5'
8	275°20.3'	N 20°17.1'	103°06.3'	S 16°35.2'	51°27.1'	S 22°14.2'	39°46.5'	S 22°59.4'
9	290°19.6'	N 20°17.9'	118°09.1'	S 16°35.2'	66°29.6'	S 22°14.2'	54°47.7'	S 22°59.3'
10	305°19.0'	N 20°18.7'	133°11.8'	S 16°35.1'	81°32.1'	S 22°14.2'	69°48.8'	S 22°59.2'
11	320°18.3'	N 20°19.4'	148°14.6'	S 16°35.0'	96°34.5'	S 22°14.2'	84°49.9'	S 22°59.1'
12	335°17.6'	N 20°20.2'	163°17.3'	S 16°34.9'	111°37.0'	S 22°14.2'	99°51.0'	S 22°59.0'
13	350°16.9'	N 20°21.0'	178°20.1'	S 16°34.9'	126°39.5'	S 22°14.2'	114°52.2'	S 22°58.9'
14	5°16.3'	N 20°21.8'	193°22.9'	S 16°34.8'	141°42.0'	S 22°14.2'	129°53.3'	S 22°58.8'
15	20°15.6'	N 20°22.6'	208°25.6'	S 16°34.7'	156°44.5'	S 22°14.2'	144°54.4'	S 22°58.7'
16	35°14.9'	N 20°23.4'	223°28.4'	S 16°34.6'	171°47.0'	S 22°14.2'	159°55.6'	S 22°58.6'
17	50°14.2'	N 20°24.1'	238°31.1'	S 16°34.5'	186°49.5'	S 22°14.2'	174°56.7'	S 22°58.6'
18	65°13.6'	N 20°24.9'	253°33.9'	S 16°34.5'	201°52.0'	S 22°14.2'	189°57.8'	S 22°58.5'
19	80°12.9'	N 20°25.7'	268°36.6'	S 16°34.4'	216°54.4'	S 22°14.2'	204°58.9'	S 22°58.4'
20	95°12.2'	N 20°26.5'	283°39.4'	S 16°34.3'	231°56.9'	S 22°14.2'	220°00.1'	S 22°58.3'
21	110°11.5'	N 20°27.3'	298°42.2'	S 16°34.2'	246°59.4'	S 22°14.2'	235°01.2'	S 22°58.2'
22	125°10.8'	N 20°28.0'	313°44.9'	S 16°34.2'	262°01.9'	S 22°14.2'	250°02.3'	S 22°58.1'
23	140°10.2'	N 20°28.8'	328°47.7'	S 16°34.1'	277°04.4'	S 22°14.2'	265°03.5'	S 22°58.0'

Tue Apr 24, 2018 UTC

UTC	Venus -3.8		Jupiter -2.3		Saturn +0.4		Mars -0.2	
	v = -0.7' d = 0.8'		v = 2.8' d = 0.1'		v = 2.5' d = 0.0'		v = 1.1' d = 0.1'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	155°09.5'	N 20°29.6'	343°50.4'	S 16°34.0'	292°06.9'	S 22°14.2'	280°04.6'	S 22°57.9'
1	170°08.8'	N 20°30.4'	358°53.2'	S 16°33.9'	307°09.4'	S 22°14.2'	295°05.7'	S 22°57.8'
2	185°08.1'	N 20°31.1'	13°56.0'	S 16°33.8'	322°11.9'	S 22°14.2'	310°06.9'	S 22°57.7'
3	200°07.4'	N 20°31.9'	28°58.7'	S 16°33.8'	337°14.4'	S 22°14.2'	325°08.0'	S 22°57.6'
4	215°06.8'	N 20°32.7'	44°01.5'	S 16°33.7'	352°16.9'	S 22°14.2'	340°09.1'	S 22°57.5'
5	230°06.1'	N 20°33.4'	59°04.2'	S 16°33.6'	7°19.3'	S 22°14.2'	355°10.3'	S 22°57.4'
6	245°05.4'	N 20°34.2'	74°07.0'	S 16°33.5'	22°21.8'	S 22°14.2'	10°11.4'	S 22°57.3'
7	260°04.7'	N 20°35.0'	89°09.8'	S 16°33.5'	37°24.3'	S 22°14.2'	25°12.5'	S 22°57.2'
8	275°04.0'	N 20°35.7'	104°12.5'	S 16°33.4'	52°26.8'	S 22°14.2'	40°13.7'	S 22°57.2'
9	290°03.3'	N 20°36.5'	119°15.3'	S 16°33.3'	67°29.3'	S 22°14.2'	55°14.8'	S 22°57.1'
10	305°02.7'	N 20°37.3'	134°18.0'	S 16°33.2'	82°31.8'	S 22°14.2'	70°15.9'	S 22°57.0'
11	320°02.0'	N 20°38.0'	149°20.8'	S 16°33.1'	97°34.3'	S 22°14.2'	85°17.1'	S 22°56.9'
12	335°01.3'	N 20°38.8'	164°23.5'	S 16°33.1'	112°36.8'	S 22°14.3'	100°18.2'	S 22°56.8'
13	350°00.6'	N 20°39.6'	179°26.3'	S 16°33.0'	127°39.3'	S 22°14.3'	115°19.3'	S 22°56.7'
14	4°59.9'	N 20°40.3'	194°29.1'	S 16°32.9'	142°41.8'	S 22°14.3'	130°20.5'	S 22°56.6'
15	19°59.2'	N 20°41.1'	209°31.8'	S 16°32.8'	157°44.3'	S 22°14.3'	145°21.6'	S 22°56.5'
16	34°58.5'	N 20°41.8'	224°34.6'	S 16°32.7'	172°46.8'	S 22°14.3'	160°22.7'	S 22°56.4'
17	49°57.9'	N 20°42.6'	239°37.4'	S 16°32.7'	187°49.3'	S 22°14.3'	175°23.9'	S 22°56.3'
18	64°57.2'	N 20°43.4'	254°40.1'	S 16°32.6'	202°51.7'	S 22°14.3'	190°25.0'	S 22°56.2'
19	79°56.5'	N 20°44.1'	269°42.9'	S 16°32.5'	217°54.2'	S 22°14.3'	205°26.2'	S 22°56.1'
20	94°55.8'	N 20°44.9'	284°45.6'	S 16°32.4'	232°56.7'	S 22°14.3'	220°27.3'	S 22°56.0'
21	109°55.1'	N 20°45.6'	299°48.4'	S 16°32.4'	247°59.2'	S 22°14.3'	235°28.4'	S 22°55.9'
22	124°54.4'	N 20°46.4'	314°51.2'	S 16°32.3'	263°01.7'	S 22°14.3'	250°29.6'	S 22°55.8'
23	139°53.7'	N 20°47.1'	329°53.9'	S 16°32.2'	278°04.2'	S 22°14.3'	265°30.7'	S 22°55.7'

Wed Apr 25, 2018 UTC

UTC	Venus -3.8		Jupiter -2.3		Saturn +0.4		Mars -0.2	
	v = -0.7' d = 0.7'		v = 2.8' d = 0.1'		v = 2.5' d = 0.0'		v = 1.1' d = 0.1'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	154°53.0'	N 20°47.9'	344°56.7'	S 16°32.1'	293°06.7'	S 22°14.3'	280°31.9'	S 22°55.6'
1	169°52.3'	N 20°48.6'	359°59.4'	S 16°32.0'	308°09.2'	S 22°14.3'	295°33.0'	S 22°55.6'
2	184°51.7'	N 20°49.4'	15°02.2'	S 16°32.0'	323°11.7'	S 22°14.3'	310°34.1'	S 22°55.5'
3	199°51.0'	N 20°50.1'	30°05.0'	S 16°31.9'	338°14.2'	S 22°14.3'	325°35.3'	S 22°55.4'
4	214°50.3'	N 20°50.9'	45°07.7'	S 16°31.8'	353°16.7'	S 22°14.3'	340°36.4'	S 22°55.3'
5	229°49.6'	N 20°51.6'	60°10.5'	S 16°31.7'	8°19.2'	S 22°14.3'	355°37.6'	S 22°55.2'
6	244°48.9'	N 20°52.4'	75°13.3'	S 16°31.6'	23°21.7'	S 22°14.3'	10°38.7'	S 22°55.1'
7	259°48.2'	N 20°53.1'	90°16.0'	S 16°31.6'	38°24.2'	S 22°14.3'	25°39.9'	S 22°55.0'
8	274°47.5'	N 20°53.8'	105°18.8'	S 16°31.5'	53°26.7'	S 22°14.3'	40°41.0'	S 22°54.9'
9	289°46.8'	N 20°54.6'	120°21.5'	S 16°31.4'	68°29.2'	S 22°14.3'	55°42.1'	S 22°54.8'
10	304°46.1'	N 20°55.3'	135°24.3'	S 16°31.3'	83°31.7'	S 22°14.3'	70°43.3'	S 22°54.7'
11	319°45.4'	N 20°56.1'	150°27.1'	S 16°31.2'	98°34.2'	S 22°14.3'	85°44.4'	S 22°54.6'
12	334°44.7'	N 20°56.8'	165°29.8'	S 16°31.2'	113°36.7'	S 22°14.3'	100°45.6'	S 22°54.5'
13	349°44.0'	N 20°57.6'	180°32.6'	S 16°31.1'	128°39.2'	S 22°14.3'	115°46.7'	S 22°54.4'
14	4°43.3'	N 20°58.3'	195°35.4'	S 16°31.0'	143°41.7'	S 22°14.3'	130°47.9'	S 22°54.3'
15	19°42.6'	N 20°59.0'	210°38.1'	S 16°30.9'	158°44.1'	S 22°14.3'	145°49.0'	S 22°54.2'
16	34°41.9'	N 20°59.8'	225°40.9'	S 16°30.9'	173°46.6'	S 22°14.3'	160°50.2'	S 22°54.1'
17	49°41.2'	N 21°00.5'	240°43.6'	S 16°30.8'	188°49.1'	S 22°14.3'	175°51.3'	S 22°54.0'
18	64°40.5'	N 21°01.2'	255°46.4'	S 16°30.7'	203°51.6'	S 22°14.3'	190°52.5'	S 22°53.9'
19	79°39.8'	N 21°02.0'	270°49.2'	S 16°30.6'	218°54.1'	S 22°14.3'	205°53.6'	S 22°53.8'
20	94°39.1'	N 21°02.7'	285°51.9'	S 16°30.5'	233°56.6'	S 22°14.3'	220°54.8'	S 22°53.7'
21	109°38.4'	N 21°03.4'	300°54.7'	S 16°30.5'	248°59.1'	S 22°14.3'	235°55.9'	S 22°53.6'
22	124°37.7'	N 21°04.2'	315°57.5'	S 16°30.4'	264°01.6'	S 22°14.3'	250°57.1'	S 22°53.5'
23	139°37.0'	N 21°04.9'	331°00.2'	S 16°30.3'	279°04.1'	S 22°14.3'	265°58.2'	S 22°53.5'

Thu Apr 26, 2018 UTC

UTC	Venus -3.8		Jupiter -2.3		Saturn +0.4		Mars -0.3	
	v = -0.7' d = 0.7'		v = 2.8' d = 0.1'		v = 2.5' d = 0.0'		v = 1.2' d = 0.1'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	154°36.3'	N 21°05.6'	346°03.0'	S 16°30.2'	294°06.6'	S 22°14.3'	280°59.4'	S 22°53.4'
1	169°35.6'	N 21°06.3'	1°05.8'	S 16°30.1'	309°09.1'	S 22°14.3'	296°00.5'	S 22°53.3'
2	184°34.9'	N 21°07.1'	16°08.5'	S 16°30.1'	324°11.6'	S 22°14.3'	311°01.7'	S 22°53.2'
3	199°34.2'	N 21°07.8'	31°11.3'	S 16°30.0'	339°14.1'	S 22°14.3'	326°02.8'	S 22°53.1'
4	214°33.5'	N 21°08.5'	46°14.1'	S 16°29.9'	354°16.6'	S 22°14.3'	341°04.0'	S 22°53.0'
5	229°32.8'	N 21°09.2'	61°16.8'	S 16°29.8'	9°19.1'	S 22°14.3'	356°05.1'	S 22°52.9'
6	244°32.1'	N 21°10.0'	76°19.6'	S 16°29.7'	24°21.6'	S 22°14.3'	11°06.3'	S 22°52.8'
7	259°31.4'	N 21°10.7'	91°22.4'	S 16°29.7'	39°24.1'	S 22°14.3'	26°07.4'	S 22°52.7'
8	274°30.7'	N 21°11.4'	106°25.1'	S 16°29.6'	54°26.6'	S 22°14.3'	41°08.6'	S 22°52.6'
9	289°30.0'	N 21°12.1'	121°27.9'	S 16°29.5'	69°29.1'	S 22°14.3'	56°09.7'	S 22°52.5'
10	304°29.3'	N 21°12.8'	136°30.7'	S 16°29.4'	84°31.6'	S 22°14.3'	71°10.9'	S 22°52.4'
11	319°28.6'	N 21°13.6'	151°33.4'	S 16°29.3'	99°34.1'	S 22°14.3'	86°12.0'	S 22°52.3'
12	334°27.9'	N 21°14.3'	166°36.2'	S 16°29.3'	114°36.6'	S 22°14.3'	101°13.2'	S 22°52.2'
13	349°27.2'	N 21°15.0'	181°39.0'	S 16°29.2'	129°39.1'	S 22°14.3'	116°14.4'	S 22°52.1'
14	4°26.5'	N 21°15.7'	196°41.7'	S 16°29.1'	144°41.6'	S 22°14.3'	131°15.5'	S 22°52.0'
15	19°25.8'	N 21°16.4'	211°44.5'	S 16°29.0'	159°44.1'	S 22°14.3'	146°16.7'	S 22°51.9'
16	34°25.1'	N 21°17.1'	226°47.2'	S 16°28.9'	174°46.6'	S 22°14.3'	161°17.8'	S 22°51.8'
17	49°24.4'	N 21°17.8'	241°50.0'	S 16°28.9'	189°49.1'	S 22°14.3'	176°19.0'	S 22°51.7'
18	64°23.6'	N 21°18.5'	256°52.8'	S 16°28.8'	204°51.6'	S 22°14.4'	191°20.1'	S 22°51.6'
19	79°22.9'	N 21°19.2'	271°55.5'	S 16°28.7'	219°54.1'	S 22°14.4'	206°21.3'	S 22°51.5'
20	94°22.2'	N 21°20.0'	286°58.3'	S 16°28.6'	234°56.6'	S 22°14.4'	221°22.5'	S 22°51.4'
21	109°21.5'	N 21°20.7'	302°01.1'	S 16°28.5'	249°59.1'	S 22°14.4'	236°23.6'	S 22°51.3'
22	124°20.8'	N 21°21.4'	317°03.9'	S 16°28.5'	265°01.6'	S 22°14.4'	251°24.8'	S 22°51.2'
23	139°20.1'	N 21°22.1'	332°06.6'	S 16°28.4'	280°04.2'	S 22°14.4'	266°25.9'	S 22°51.1'

Fri Apr 27, 2018 UTC

UTC	Venus -3.8		Jupiter -2.3		Saturn +0.4		Mars -0.3	
	v = -0.7' d = 0.7'		v = 2.8' d = 0.1'		v = 2.5' d = 0.0'		v = 1.2' d = 0.1'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	154°19.4'	N 21°22.8'	347°09.4'	S 16°28.3'	295°06.7'	S 22°14.4'	281°27.1'	S 22°51.0'
1	169°18.7'	N 21°23.5'	2°12.2'	S 16°28.2'	310°09.2'	S 22°14.4'	296°28.3'	S 22°50.9'
2	184°18.0'	N 21°24.2'	17°14.9'	S 16°28.1'	325°11.7'	S 22°14.4'	311°29.4'	S 22°50.8'
3	199°17.2'	N 21°24.9'	32°17.7'	S 16°28.1'	340°14.2'	S 22°14.4'	326°30.6'	S 22°50.7'
4	214°16.5'	N 21°25.6'	47°20.5'	S 16°28.0'	355°16.7'	S 22°14.4'	341°31.7'	S 22°50.6'
5	229°15.8'	N 21°26.3'	62°23.2'	S 16°27.9'	10°19.2'	S 22°14.4'	356°32.9'	S 22°50.5'
6	244°15.1'	N 21°27.0'	77°26.0'	S 16°27.8'	25°21.7'	S 22°14.4'	11°34.1'	S 22°50.4'
7	259°14.4'	N 21°27.7'	92°28.8'	S 16°27.7'	40°24.2'	S 22°14.4'	26°35.2'	S 22°50.3'
8	274°13.7'	N 21°28.4'	107°31.5'	S 16°27.7'	55°26.7'	S 22°14.4'	41°36.4'	S 22°50.2'
9	289°13.0'	N 21°29.1'	122°34.3'	S 16°27.6'	70°29.2'	S 22°14.4'	56°37.6'	S 22°50.2'
10	304°12.3'	N 21°29.8'	137°37.1'	S 16°27.5'	85°31.7'	S 22°14.4'	71°38.7'	S 22°50.1'
11	319°11.5'	N 21°30.5'	152°39.8'	S 16°27.4'	100°34.2'	S 22°14.4'	86°39.9'	S 22°50.0'
12	334°10.8'	N 21°31.1'	167°42.6'	S 16°27.3'	115°36.7'	S 22°14.4'	101°41.0'	S 22°49.9'
13	349°10.1'	N 21°31.8'	182°45.4'	S 16°27.2'	130°39.2'	S 22°14.4'	116°42.2'	S 22°49.8'
14	4°09.4'	N 21°32.5'	197°48.1'	S 16°27.2'	145°41.7'	S 22°14.4'	131°43.4'	S 22°49.7'
15	19°08.7'	N 21°33.2'	212°50.9'	S 16°27.1'	160°44.2'	S 22°14.4'	146°44.5'	S 22°49.6'
16	34°08.0'	N 21°33.9'	227°53.7'	S 16°27.0'	175°46.7'	S 22°14.4'	161°45.7'	S 22°49.5'
17	49°07.2'	N 21°34.6'	242°56.4'	S 16°26.9'	190°49.2'	S 22°14.4'	176°46.9'	S 22°49.4'
18	64°06.5'	N 21°35.3'	257°59.2'	S 16°26.8'	205°51.7'	S 22°14.4'	191°48.0'	S 22°49.3'
19	79°05.8'	N 21°36.0'	273°02.0'	S 16°26.8'	220°54.2'	S 22°14.4'	206°49.2'	S 22°49.2'
20	94°05.1'	N 21°36.6'	288°04.8'	S 16°26.7'	235°56.8'	S 22°14.4'	221°50.4'	S 22°49.1'
21	109°04.4'	N 21°37.3'	303°07.5'	S 16°26.6'	250°59.3'	S 22°14.4'	236°51.6'	S 22°49.0'
22	124°03.6'	N 21°38.0'	318°10.3'	S 16°26.5'	266°01.8'	S 22°14.4'	251°52.7'	S 22°48.9'
23	139°02.9'	N 21°38.7'	333°13.1'	S 16°26.4'	281°04.3'	S 22°14.4'	266°53.9'	S 22°48.8'

Sat Apr 28, 2018 UTC

UTC	Venus -3.8		Jupiter -2.4		Saturn +0.4		Mars -0.3	
	v = -0.7' d = 0.7'		v = 2.8' d = 0.1'		v = 2.5' d = 0.0'		v = 1.2' d = 0.1'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	154°02.2'	N 21°39.4'	348°15.8'	S 16°26.4'	296°06.8'	S 22°14.4'	281°55.1'	S 22°48.7'
1	169°01.5'	N 21°40.0'	3°18.6'	S 16°26.3'	311°09.3'	S 22°14.4'	296°56.2'	S 22°48.6'
2	184°00.8'	N 21°40.7'	18°21.4'	S 16°26.2'	326°11.8'	S 22°14.4'	311°57.4'	S 22°48.5'
3	199°00.0'	N 21°41.4'	33°24.1'	S 16°26.1'	341°14.3'	S 22°14.4'	326°58.6'	S 22°48.4'
4	213°59.3'	N 21°42.1'	48°26.9'	S 16°26.0'	356°16.8'	S 22°14.4'	341°59.7'	S 22°48.3'
5	228°58.6'	N 21°42.8'	63°29.7'	S 16°26.0'	11°19.3'	S 22°14.4'	357°00.9'	S 22°48.2'
6	243°57.9'	N 21°43.4'	78°32.5'	S 16°25.9'	26°21.8'	S 22°14.4'	12°02.1'	S 22°48.1'
7	258°57.1'	N 21°44.1'	93°35.2'	S 16°25.8'	41°24.3'	S 22°14.4'	27°03.3'	S 22°48.0'
8	273°56.4'	N 21°44.8'	108°38.0'	S 16°25.7'	56°26.8'	S 22°14.4'	42°04.4'	S 22°47.9'
9	288°55.7'	N 21°45.4'	123°40.8'	S 16°25.6'	71°29.4'	S 22°14.4'	57°05.6'	S 22°47.8'
10	303°55.0'	N 21°46.1'	138°43.5'	S 16°25.5'	86°31.9'	S 22°14.4'	72°06.8'	S 22°47.7'
11	318°54.2'	N 21°46.8'	153°46.3'	S 16°25.5'	101°34.4'	S 22°14.4'	87°08.0'	S 22°47.6'
12	333°53.5'	N 21°47.4'	168°49.1'	S 16°25.4'	116°36.9'	S 22°14.5'	102°09.1'	S 22°47.5'
13	348°52.8'	N 21°48.1'	183°51.9'	S 16°25.3'	131°39.4'	S 22°14.5'	117°10.3'	S 22°47.4'
14	3°52.1'	N 21°48.8'	198°54.6'	S 16°25.2'	146°41.9'	S 22°14.5'	132°11.5'	S 22°47.3'
15	18°51.3'	N 21°49.4'	213°57.4'	S 16°25.1'	161°44.4'	S 22°14.5'	147°12.7'	S 22°47.2'
16	33°50.6'	N 21°50.1'	229°00.2'	S 16°25.1'	176°46.9'	S 22°14.5'	162°13.8'	S 22°47.1'
17	48°49.9'	N 21°50.8'	244°02.9'	S 16°25.0'	191°49.4'	S 22°14.5'	177°15.0'	S 22°47.0'
18	63°49.1'	N 21°51.4'	259°05.7'	S 16°24.9'	206°51.9'	S 22°14.5'	192°16.2'	S 22°46.9'
19	78°48.4'	N 21°52.1'	274°08.5'	S 16°24.8'	221°54.5'	S 22°14.5'	207°17.4'	S 22°46.8'
20	93°47.7'	N 21°52.7'	289°11.3'	S 16°24.7'	236°57.0'	S 22°14.5'	222°18.6'	S 22°46.7'
21	108°47.0'	N 21°53.4'	304°14.0'	S 16°24.7'	251°59.5'	S 22°14.5'	237°19.7'	S 22°46.6'
22	123°46.2'	N 21°54.1'	319°16.8'	S 16°24.6'	267°02.0'	S 22°14.5'	252°20.9'	S 22°46.5'
23	138°45.5'	N 21°54.7'	334°19.6'	S 16°24.5'	282°04.5'	S 22°14.5'	267°22.1'	S 22°46.4'

Sun Apr 29, 2018 UTC

UTC	Venus -3.8		Jupiter -2.4		Saturn +0.4		Mars -0.3	
	v = -0.7' d = 0.6'		v = 2.8' d = 0.1'		v = 2.5' d = 0.0'		v = 1.2' d = 0.1'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	153°44.8'	N 21°55.4'	349°22.3'	S 16°24.4'	297°07.0'	S 22°14.5'	282°23.3'	S 22°46.3'
1	168°44.0'	N 21°56.0'	4°25.1'	S 16°24.3'	312°09.5'	S 22°14.5'	297°24.5'	S 22°46.2'
2	183°43.3'	N 21°56.7'	19°27.9'	S 16°24.2'	327°12.0'	S 22°14.5'	312°25.6'	S 22°46.1'
3	198°42.6'	N 21°57.3'	34°30.7'	S 16°24.2'	342°14.5'	S 22°14.5'	327°26.8'	S 22°46.0'
4	213°41.8'	N 21°58.0'	49°33.4'	S 16°24.1'	357°17.1'	S 22°14.5'	342°28.0'	S 22°45.9'
5	228°41.1'	N 21°58.6'	64°36.2'	S 16°24.0'	12°19.6'	S 22°14.5'	357°29.2'	S 22°45.8'
6	243°40.4'	N 21°59.3'	79°39.0'	S 16°23.9'	27°22.1'	S 22°14.5'	12°30.4'	S 22°45.7'
7	258°39.6'	N 21°59.9'	94°41.7'	S 16°23.8'	42°24.6'	S 22°14.5'	27°31.5'	S 22°45.6'
8	273°38.9'	N 22°00.6'	109°44.5'	S 16°23.8'	57°27.1'	S 22°14.5'	42°32.7'	S 22°45.5'
9	288°38.2'	N 22°01.2'	124°47.3'	S 16°23.7'	72°29.6'	S 22°14.5'	57°33.9'	S 22°45.4'
10	303°37.4'	N 22°01.9'	139°50.1'	S 16°23.6'	87°32.1'	S 22°14.5'	72°35.1'	S 22°45.3'
11	318°36.7'	N 22°02.5'	154°52.8'	S 16°23.5'	102°34.6'	S 22°14.5'	87°36.3'	S 22°45.2'
12	333°36.0'	N 22°03.1'	169°55.6'	S 16°23.4'	117°37.2'	S 22°14.5'	102°37.5'	S 22°45.1'
13	348°35.2'	N 22°03.8'	184°58.4'	S 16°23.3'	132°39.7'	S 22°14.5'	117°38.7'	S 22°45.0'
14	3°34.5'	N 22°04.4'	200°01.2'	S 16°23.3'	147°42.2'	S 22°14.5'	132°39.8'	S 22°44.9'
15	18°33.8'	N 22°05.1'	215°03.9'	S 16°23.2'	162°44.7'	S 22°14.5'	147°41.0'	S 22°44.8'
16	33°33.0'	N 22°05.7'	230°06.7'	S 16°23.1'	177°47.2'	S 22°14.5'	162°42.2'	S 22°44.7'
17	48°32.3'	N 22°06.3'	245°09.5'	S 16°23.0'	192°49.7'	S 22°14.5'	177°43.4'	S 22°44.6'
18	63°31.6'	N 22°07.0'	260°12.3'	S 16°22.9'	207°52.2'	S 22°14.5'	192°44.6'	S 22°44.5'
19	78°30.8'	N 22°07.6'	275°15.0'	S 16°22.9'	222°54.8'	S 22°14.5'	207°45.8'	S 22°44.4'
20	93°30.1'	N 22°08.2'	290°17.8'	S 16°22.8'	237°57.3'	S 22°14.5'	222°47.0'	S 22°44.3'
21	108°29.3'	N 22°08.9'	305°20.6'	S 16°22.7'	252°59.8'	S 22°14.5'	237°48.2'	S 22°44.2'
22	123°28.6'	N 22°09.5'	320°23.4'	S 16°22.6'	268°02.3'	S 22°14.6'	252°49.4'	S 22°44.1'
23	138°27.9'	N 22°10.1'	335°26.1'	S 16°22.5'	283°04.8'	S 22°14.6'	267°50.5'	S 22°44.0'

Mon Apr 30, 2018 UTC

UTC	Venus -3.8		Jupiter -2.4		Saturn +0.3		Mars -0.4	
	v = -0.7' d = 0.6'		v = 2.8' d = 0.1'		v = 2.5' d = 0.0'		v = 1.2' d = 0.1'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	153°27.1'	N 22°10.8'	350°28.9'	S 16°22.4'	298°07.3'	S 22°14.6'	282°51.7'	S 22°43.9'
1	168°26.4'	N 22°11.4'	5°31.7'	S 16°22.4'	313°09.9'	S 22°14.6'	297°52.9'	S 22°43.8'
2	183°25.6'	N 22°12.0'	20°34.4'	S 16°22.3'	328°12.4'	S 22°14.6'	312°54.1'	S 22°43.7'
3	198°24.9'	N 22°12.7'	35°37.2'	S 16°22.2'	343°14.9'	S 22°14.6'	327°55.3'	S 22°43.6'
4	213°24.2'	N 22°13.3'	50°40.0'	S 16°22.1'	358°17.4'	S 22°14.6'	342°56.5'	S 22°43.5'
5	228°23.4'	N 22°13.9'	65°42.8'	S 16°22.0'	13°19.9'	S 22°14.6'	357°57.7'	S 22°43.4'
6	243°22.7'	N 22°14.5'	80°45.5'	S 16°21.9'	28°22.4'	S 22°14.6'	12°58.9'	S 22°43.3'
7	258°21.9'	N 22°15.2'	95°48.3'	S 16°21.9'	43°25.0'	S 22°14.6'	28°00.1'	S 22°43.2'
8	273°21.2'	N 22°15.8'	110°51.1'	S 16°21.8'	58°27.5'	S 22°14.6'	43°01.3'	S 22°43.1'
9	288°20.4'	N 22°16.4'	125°53.9'	S 16°21.7'	73°30.0'	S 22°14.6'	58°02.5'	S 22°43.0'
10	303°19.7'	N 22°17.0'	140°56.6'	S 16°21.6'	88°32.5'	S 22°14.6'	73°03.7'	S 22°42.9'
11	318°18.9'	N 22°17.6'	155°59.4'	S 16°21.5'	103°35.0'	S 22°14.6'	88°04.9'	S 22°42.8'
12	333°18.2'	N 22°18.2'	171°02.2'	S 16°21.5'	118°37.5'	S 22°14.6'	103°06.1'	S 22°42.7'
13	348°17.5'	N 22°18.9'	186°05.0'	S 16°21.4'	133°40.1'	S 22°14.6'	118°07.3'	S 22°42.6'
14	3°16.7'	N 22°19.5'	201°07.7'	S 16°21.3'	148°42.6'	S 22°14.6'	133°08.5'	S 22°42.5'
15	18°16.0'	N 22°20.1'	216°10.5'	S 16°21.2'	163°45.1'	S 22°14.6'	148°09.6'	S 22°42.4'
16	33°15.2'	N 22°20.7'	231°13.3'	S 16°21.1'	178°47.6'	S 22°14.6'	163°10.8'	S 22°42.3'
17	48°14.5'	N 22°21.3'	246°16.1'	S 16°21.0'	193°50.1'	S 22°14.6'	178°12.0'	S 22°42.2'
18	63°13.7'	N 22°21.9'	261°18.9'	S 16°21.0'	208°52.6'	S 22°14.6'	193°13.2'	S 22°42.1'
19	78°13.0'	N 22°22.5'	276°21.6'	S 16°20.9'	223°55.2'	S 22°14.6'	208°14.4'	S 22°42.0'
20	93°12.2'	N 22°23.1'	291°24.4'	S 16°20.8'	238°57.7'	S 22°14.6'	223°15.6'	S 22°41.9'
21	108°11.5'	N 22°23.8'	306°27.2'	S 16°20.7'	254°00.2'	S 22°14.6'	238°16.8'	S 22°41.8'
22	123°10.7'	N 22°24.4'	321°30.0'	S 16°20.6'	269°02.7'	S 22°14.6'	253°18.0'	S 22°41.7'
23	138°10.0'	N 22°25.0'	336°32.7'	S 16°20.5'	284°05.2'	S 22°14.6'	268°19.2'	S 22°41.6'