

Sat Apr 1, 2017 UTC

UTC	Venus -4.0 v = 3.5' d = 0.9'		Jupiter -2.3 v = 2.8' d = 0.1'		Saturn +0.4 v = 2.4' d = 0.0'		Mars +1.5 v = 0.7' d = 0.5'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	191°35.2'	N 7°15.6'	351°17.0'	S 6°01.7'	281°56.8'	S 22°04.6'	146°25.3'	N 16°54.4'
1	206°38.7'	N 7°14.6'	6°19.7'	S 6°01.6'	296°59.3'	S 22°04.6'	161°26.0'	N 16°54.9'
2	221°42.2'	N 7°13.7'	21°22.5'	S 6°01.4'	312°01.7'	S 22°04.6'	176°26.7'	N 16°55.4'
3	236°45.7'	N 7°12.8'	36°25.3'	S 6°01.3'	327°04.2'	S 22°04.6'	191°27.4'	N 16°56.0'
4	251°49.3'	N 7°11.9'	51°28.0'	S 6°01.2'	342°06.6'	S 22°04.6'	206°28.1'	N 16°56.5'
5	266°52.8'	N 7°11.0'	66°30.8'	S 6°01.1'	357°09.0'	S 22°04.6'	221°28.8'	N 16°57.1'
6	281°56.3'	N 7°10.1'	81°33.5'	S 6°00.9'	12°11.5'	S 22°04.6'	236°29.5'	N 16°57.6'
7	296°59.8'	N 7°09.1'	96°36.3'	S 6°00.8'	27°13.9'	S 22°04.6'	251°30.2'	N 16°58.1'
8	312°03.3'	N 7°08.2'	111°39.0'	S 6°00.7'	42°16.4'	S 22°04.6'	266°30.9'	N 16°58.7'
9	327°06.8'	N 7°07.3'	126°41.8'	S 6°00.6'	57°18.8'	S 22°04.6'	281°31.6'	N 16°59.2'
10	342°10.3'	N 7°06.4'	141°44.6'	S 6°00.5'	72°21.3'	S 22°04.6'	296°32.3'	N 16°59.7'
11	357°13.8'	N 7°05.5'	156°47.3'	S 6°00.3'	87°23.7'	S 22°04.6'	311°33.0'	N 17°00.3'
12	12°17.3'	N 7°04.6'	171°50.1'	S 6°00.2'	102°26.1'	S 22°04.6'	326°33.7'	N 17°00.8'
13	27°20.8'	N 7°03.6'	186°52.8'	S 6°00.1'	117°28.6'	S 22°04.6'	341°34.4'	N 17°01.3'
14	42°24.3'	N 7°02.7'	201°55.6'	S 5°60.0'	132°31.0'	S 22°04.6'	356°35.1'	N 17°01.9'
15	57°27.8'	N 7°01.8'	216°58.4'	S 5°59.9'	147°33.5'	S 22°04.6'	11°35.8'	N 17°02.4'
16	72°31.2'	N 7°00.9'	232°01.1'	S 5°59.7'	162°35.9'	S 22°04.6'	26°36.5'	N 17°02.9'
17	87°34.7'	N 6°60.0'	247°03.9'	S 5°59.6'	177°38.4'	S 22°04.6'	41°37.2'	N 17°03.5'
18	102°38.2'	N 6°59.1'	262°06.6'	S 5°59.5'	192°40.8'	S 22°04.6'	56°37.9'	N 17°04.0'
19	117°41.7'	N 6°58.1'	277°09.4'	S 5°59.4'	207°43.3'	S 22°04.6'	71°38.6'	N 17°04.5'
20	132°45.1'	N 6°57.2'	292°12.1'	S 5°59.3'	222°45.7'	S 22°04.6'	86°39.3'	N 17°05.1'
21	147°48.6'	N 6°56.3'	307°14.9'	S 5°59.1'	237°48.1'	S 22°04.6'	101°40.1'	N 17°05.6'
22	162°52.1'	N 6°55.4'	322°17.7'	S 5°59.0'	252°50.6'	S 22°04.6'	116°40.8'	N 17°06.1'
23	177°55.5'	N 6°54.5'	337°20.4'	S 5°58.9'	267°53.0'	S 22°04.6'	131°41.5'	N 17°06.7'

Sun Apr 2, 2017 UTC

UTC	Venus -4.1 v = 3.4' d = 0.9'		Jupiter -2.3 v = 2.8' d = 0.1'		Saturn +0.4 v = 2.4' d = 0.0'		Mars +1.5 v = 0.7' d = 0.5'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	192°59.0'	N 6°53.6'	352°23.2'	S 5°58.8'	282°55.5'	S 22°04.6'	146°42.2'	N 17°07.2'
1	208°02.4'	N 6°52.7'	7°25.9'	S 5°58.7'	297°57.9'	S 22°04.6'	161°42.9'	N 17°07.7'
2	223°05.9'	N 6°51.7'	22°28.7'	S 5°58.5'	313°00.4'	S 22°04.6'	176°43.6'	N 17°08.3'
3	238°09.3'	N 6°50.8'	37°31.5'	S 5°58.4'	328°02.8'	S 22°04.6'	191°44.3'	N 17°08.8'
4	253°12.8'	N 6°49.9'	52°34.2'	S 5°58.3'	343°05.3'	S 22°04.6'	206°45.0'	N 17°09.3'
5	268°16.2'	N 6°49.0'	67°37.0'	S 5°58.2'	358°07.7'	S 22°04.6'	221°45.7'	N 17°09.9'
6	283°19.6'	N 6°48.1'	82°39.7'	S 5°58.0'	13°10.2'	S 22°04.6'	236°46.4'	N 17°10.4'
7	298°23.1'	N 6°47.2'	97°42.5'	S 5°57.9'	28°12.6'	S 22°04.6'	251°47.1'	N 17°10.9'
8	313°26.5'	N 6°46.3'	112°45.3'	S 5°57.8'	43°15.0'	S 22°04.6'	266°47.8'	N 17°11.4'
9	328°29.9'	N 6°45.4'	127°48.0'	S 5°57.7'	58°17.5'	S 22°04.6'	281°48.5'	N 17°12.0'
10	343°33.4'	N 6°44.4'	142°50.8'	S 5°57.6'	73°19.9'	S 22°04.6'	296°49.2'	N 17°12.5'
11	358°36.8'	N 6°43.5'	157°53.5'	S 5°57.4'	88°22.4'	S 22°04.6'	311°49.9'	N 17°13.0'
12	13°40.2'	N 6°42.6'	172°56.3'	S 5°57.3'	103°24.8'	S 22°04.5'	326°50.6'	N 17°13.6'
13	28°43.6'	N 6°41.7'	187°59.0'	S 5°57.2'	118°27.3'	S 22°04.5'	341°51.3'	N 17°14.1'
14	43°47.0'	N 6°40.8'	203°01.8'	S 5°57.1'	133°29.7'	S 22°04.5'	356°52.0'	N 17°14.6'
15	58°50.4'	N 6°39.9'	218°04.6'	S 5°57.0'	148°32.2'	S 22°04.5'	11°52.7'	N 17°15.1'
16	73°53.9'	N 6°39.0'	233°07.3'	S 5°56.8'	163°34.6'	S 22°04.5'	26°53.4'	N 17°15.7'
17	88°57.3'	N 6°38.1'	248°10.1'	S 5°56.7'	178°37.1'	S 22°04.5'	41°54.1'	N 17°16.2'
18	104°00.7'	N 6°37.2'	263°12.8'	S 5°56.6'	193°39.5'	S 22°04.5'	56°54.8'	N 17°16.7'
19	119°04.0'	N 6°36.3'	278°15.6'	S 5°56.5'	208°42.0'	S 22°04.5'	71°55.5'	N 17°17.2'
20	134°07.4'	N 6°35.4'	293°18.4'	S 5°56.4'	223°44.4'	S 22°04.5'	86°56.2'	N 17°17.8'
21	149°10.8'	N 6°34.5'	308°21.1'	S 5°56.2'	238°46.9'	S 22°04.5'	101°56.9'	N 17°18.3'
22	164°14.2'	N 6°33.5'	323°23.9'	S 5°56.1'	253°49.3'	S 22°04.5'	116°57.6'	N 17°18.8'
23	179°17.6'	N 6°32.6'	338°26.6'	S 5°56.0'	268°51.8'	S 22°04.5'	131°58.3'	N 17°19.3'

Mon Apr 3, 2017 UTC

UTC	Venus -4.1		Jupiter -2.3		Saturn +0.4		Mars +1.5	
	v = 3.3' d = 0.9'		v = 2.8' d = 0.1'		v = 2.5' d = 0.0'		v = 0.7' d = 0.5'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	194°21.0'	N 6°31.7'	353°29.4'	S 5°55.9'	283°54.2'	S 22°04.5'	146°59.0'	N 17°19.9'
1	209°24.4'	N 6°30.8'	8°32.2'	S 5°55.7'	298°56.7'	S 22°04.5'	161°59.7'	N 17°20.4'
2	224°27.7'	N 6°29.9'	23°34.9'	S 5°55.6'	313°59.1'	S 22°04.5'	177°00.4'	N 17°20.9'
3	239°31.1'	N 6°29.0'	38°37.7'	S 5°55.5'	329°01.6'	S 22°04.5'	192°01.1'	N 17°21.4'
4	254°34.5'	N 6°28.1'	53°40.4'	S 5°55.4'	344°04.0'	S 22°04.5'	207°01.8'	N 17°22.0'
5	269°37.8'	N 6°27.2'	68°43.2'	S 5°55.3'	359°06.5'	S 22°04.5'	222°02.5'	N 17°22.5'
6	284°41.2'	N 6°26.3'	83°46.0'	S 5°55.1'	14°08.9'	S 22°04.5'	237°03.2'	N 17°23.0'
7	299°44.5'	N 6°25.4'	98°48.7'	S 5°55.0'	29°11.4'	S 22°04.5'	252°03.9'	N 17°23.5'
8	314°47.9'	N 6°24.5'	113°51.5'	S 5°54.9'	44°13.8'	S 22°04.5'	267°04.6'	N 17°24.1'
9	329°51.2'	N 6°23.6'	128°54.2'	S 5°54.8'	59°16.3'	S 22°04.5'	282°05.3'	N 17°24.6'
10	344°54.6'	N 6°22.7'	143°57.0'	S 5°54.7'	74°18.7'	S 22°04.5'	297°06.0'	N 17°25.1'
11	359°57.9'	N 6°21.8'	158°59.8'	S 5°54.5'	89°21.2'	S 22°04.5'	312°06.7'	N 17°25.6'
12	15°01.3'	N 6°20.9'	174°02.5'	S 5°54.4'	104°23.6'	S 22°04.5'	327°07.4'	N 17°26.1'
13	30°04.6'	N 6°20.0'	189°05.3'	S 5°54.3'	119°26.1'	S 22°04.5'	342°08.1'	N 17°26.7'
14	45°07.9'	N 6°19.1'	204°08.0'	S 5°54.2'	134°28.5'	S 22°04.5'	357°08.8'	N 17°27.2'
15	60°11.3'	N 6°18.2'	219°10.8'	S 5°54.0'	149°31.0'	S 22°04.5'	12°09.5'	N 17°27.7'
16	75°14.6'	N 6°17.3'	234°13.6'	S 5°53.9'	164°33.4'	S 22°04.5'	27°10.2'	N 17°28.2'
17	90°17.9'	N 6°16.4'	249°16.3'	S 5°53.8'	179°35.9'	S 22°04.5'	42°10.9'	N 17°28.7'
18	105°21.2'	N 6°15.5'	264°19.1'	S 5°53.7'	194°38.3'	S 22°04.5'	57°11.6'	N 17°29.3'
19	120°24.6'	N 6°14.6'	279°21.9'	S 5°53.6'	209°40.8'	S 22°04.5'	72°12.3'	N 17°29.8'
20	135°27.9'	N 6°13.7'	294°24.6'	S 5°53.4'	224°43.2'	S 22°04.5'	87°13.0'	N 17°30.3'
21	150°31.2'	N 6°12.8'	309°27.4'	S 5°53.3'	239°45.7'	S 22°04.5'	102°13.7'	N 17°30.8'
22	165°34.5'	N 6°11.9'	324°30.1'	S 5°53.2'	254°48.2'	S 22°04.5'	117°14.4'	N 17°31.3'
23	180°37.8'	N 6°11.0'	339°32.9'	S 5°53.1'	269°50.6'	S 22°04.5'	132°15.1'	N 17°31.9'

Tue Apr 4, 2017 UTC

UTC	Venus -4.2		Jupiter -2.3		Saturn +0.4		Mars +1.5	
	v = 3.3' d = 0.9'		v = 2.8' d = 0.1'		v = 2.5' d = 0.0'		v = 0.7' d = 0.5'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	195°41.1'	N 6°10.1'	354°35.7'	S 5°53.0'	284°53.1'	S 22°04.5'	147°15.8'	N 17°32.4'
1	210°44.4'	N 6°09.3'	9°38.4'	S 5°52.8'	299°55.5'	S 22°04.5'	162°16.5'	N 17°32.9'
2	225°47.7'	N 6°08.4'	24°41.2'	S 5°52.7'	314°58.0'	S 22°04.5'	177°17.2'	N 17°33.4'
3	240°50.9'	N 6°07.5'	39°43.9'	S 5°52.6'	330°00.4'	S 22°04.5'	192°17.9'	N 17°33.9'
4	255°54.2'	N 6°06.6'	54°46.7'	S 5°52.5'	345°02.9'	S 22°04.4'	207°18.5'	N 17°34.4'
5	270°57.5'	N 6°05.7'	69°49.5'	S 5°52.3'	0°05.3'	S 22°04.4'	222°19.2'	N 17°35.0'
6	286°00.8'	N 6°04.8'	84°52.2'	S 5°52.2'	15°07.8'	S 22°04.4'	237°19.9'	N 17°35.5'
7	301°04.1'	N 6°03.9'	99°55.0'	S 5°52.1'	30°10.2'	S 22°04.4'	252°20.6'	N 17°36.0'
8	316°07.3'	N 6°03.0'	114°57.7'	S 5°52.0'	45°12.7'	S 22°04.4'	267°21.3'	N 17°36.5'
9	331°10.6'	N 6°02.1'	130°00.5'	S 5°51.9'	60°15.2'	S 22°04.4'	282°22.0'	N 17°37.0'
10	346°13.9'	N 6°01.3'	145°03.3'	S 5°51.7'	75°17.6'	S 22°04.4'	297°22.7'	N 17°37.5'
11	1°17.1'	N 6°00.4'	160°06.0'	S 5°51.6'	90°20.1'	S 22°04.4'	312°23.4'	N 17°38.0'
12	16°20.4'	N 5°59.5'	175°08.8'	S 5°51.5'	105°22.5'	S 22°04.4'	327°24.1'	N 17°38.6'
13	31°23.6'	N 5°58.6'	190°11.6'	S 5°51.4'	120°25.0'	S 22°04.4'	342°24.8'	N 17°39.1'
14	46°26.9'	N 5°57.7'	205°14.3'	S 5°51.3'	135°27.4'	S 22°04.4'	357°25.5'	N 17°39.6'
15	61°30.1'	N 5°56.8'	220°17.1'	S 5°51.1'	150°29.9'	S 22°04.4'	12°26.2'	N 17°40.1'
16	76°33.4'	N 5°56.0'	235°19.8'	S 5°51.0'	165°32.4'	S 22°04.4'	27°26.9'	N 17°40.6'
17	91°36.6'	N 5°55.1'	250°22.6'	S 5°50.9'	180°34.8'	S 22°04.4'	42°27.6'	N 17°41.1'
18	106°39.8'	N 5°54.2'	265°25.4'	S 5°50.8'	195°37.3'	S 22°04.4'	57°28.3'	N 17°41.6'
19	121°43.1'	N 5°53.3'	280°28.1'	S 5°50.6'	210°39.7'	S 22°04.4'	72°29.0'	N 17°42.2'
20	136°46.3'	N 5°52.4'	295°30.9'	S 5°50.5'	225°42.2'	S 22°04.4'	87°29.7'	N 17°42.7'
21	151°49.5'	N 5°51.6'	310°33.6'	S 5°50.4'	240°44.6'	S 22°04.4'	102°30.4'	N 17°43.2'
22	166°52.7'	N 5°50.7'	325°36.4'	S 5°50.3'	255°47.1'	S 22°04.4'	117°31.1'	N 17°43.7'
23	181°55.9'	N 5°49.8'	340°39.2'	S 5°50.2'	270°49.6'	S 22°04.4'	132°31.8'	N 17°44.2'

Wed Apr 5, 2017 UTC

UTC	Venus -4.2 v = 3.2' d = 0.9'		Jupiter -2.3 v = 2.8' d = 0.1'		Saturn +0.4 v = 2.5' d = 0.0'		Mars +1.5 v = 0.7' d = 0.5'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	196°59.2'	N 5°48.9'	355°41.9'	S 5°50.0'	285°52.0'	S 22°04.4'	147°32.5'	N 17°44.7'
1	212°02.4'	N 5°48.1'	10°44.7'	S 5°49.9'	300°54.5'	S 22°04.4'	162°33.2'	N 17°45.2'
2	227°05.6'	N 5°47.2'	25°47.5'	S 5°49.8'	315°56.9'	S 22°04.4'	177°33.9'	N 17°45.7'
3	242°08.8'	N 5°46.3'	40°50.2'	S 5°49.7'	330°59.4'	S 22°04.4'	192°34.6'	N 17°46.2'
4	257°12.0'	N 5°45.4'	55°53.0'	S 5°49.5'	346°01.9'	S 22°04.4'	207°35.3'	N 17°46.8'
5	272°15.2'	N 5°44.6'	70°55.7'	S 5°49.4'	1°04.3'	S 22°04.4'	222°36.0'	N 17°47.3'
6	287°18.4'	N 5°43.7'	85°58.5'	S 5°49.3'	16°06.8'	S 22°04.4'	237°36.7'	N 17°47.8'
7	302°21.5'	N 5°42.8'	101°01.3'	S 5°49.2'	31°09.2'	S 22°04.4'	252°37.3'	N 17°48.3'
8	317°24.7'	N 5°42.0'	116°04.0'	S 5°49.1'	46°11.7'	S 22°04.4'	267°38.0'	N 17°48.8'
9	332°27.9'	N 5°41.1'	131°06.8'	S 5°48.9'	61°14.2'	S 22°04.4'	282°38.7'	N 17°49.3'
10	347°31.1'	N 5°40.2'	146°09.5'	S 5°48.8'	76°16.6'	S 22°04.4'	297°39.4'	N 17°49.8'
11	2°34.2'	N 5°39.4'	161°12.3'	S 5°48.7'	91°19.1'	S 22°04.4'	312°40.1'	N 17°50.3'
12	17°37.4'	N 5°38.5'	176°15.1'	S 5°48.6'	106°21.5'	S 22°04.4'	327°40.8'	N 17°50.8'
13	32°40.6'	N 5°37.6'	191°17.8'	S 5°48.5'	121°24.0'	S 22°04.4'	342°41.5'	N 17°51.3'
14	47°43.7'	N 5°36.8'	206°20.6'	S 5°48.3'	136°26.5'	S 22°04.4'	357°42.2'	N 17°51.8'
15	62°46.9'	N 5°35.9'	221°23.4'	S 5°48.2'	151°28.9'	S 22°04.4'	12°42.9'	N 17°52.3'
16	77°50.0'	N 5°35.0'	236°26.1'	S 5°48.1'	166°31.4'	S 22°04.4'	27°43.6'	N 17°52.8'
17	92°53.2'	N 5°34.2'	251°28.9'	S 5°48.0'	181°33.8'	S 22°04.4'	42°44.3'	N 17°53.4'
18	107°56.3'	N 5°33.3'	266°31.6'	S 5°47.8'	196°36.3'	S 22°04.4'	57°45.0'	N 17°53.9'
19	122°59.5'	N 5°32.5'	281°34.4'	S 5°47.7'	211°38.8'	S 22°04.4'	72°45.7'	N 17°54.4'
20	138°02.6'	N 5°31.6'	296°37.2'	S 5°47.6'	226°41.2'	S 22°04.3'	87°46.4'	N 17°54.9'
21	153°05.8'	N 5°30.7'	311°39.9'	S 5°47.5'	241°43.7'	S 22°04.3'	102°47.1'	N 17°55.4'
22	168°08.9'	N 5°29.9'	326°42.7'	S 5°47.4'	256°46.2'	S 22°04.3'	117°47.8'	N 17°55.9'
23	183°12.0'	N 5°29.0'	341°45.5'	S 5°47.2'	271°48.6'	S 22°04.3'	132°48.5'	N 17°56.4'

Thu Apr 6, 2017 UTC

UTC	Venus -4.2 v = 3.1' d = 0.8'		Jupiter -2.3 v = 2.8' d = 0.1'		Saturn +0.4 v = 2.5' d = 0.0'		Mars +1.5 v = 0.7' d = 0.5'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	198°15.1'	N 5°28.2'	356°48.2'	S 5°47.1'	286°51.1'	S 22°04.3'	147°49.2'	N 17°56.9'
1	213°18.3'	N 5°27.3'	11°51.0'	S 5°47.0'	301°53.5'	S 22°04.3'	162°49.8'	N 17°57.4'
2	228°21.4'	N 5°26.5'	26°53.7'	S 5°46.9'	316°56.0'	S 22°04.3'	177°50.5'	N 17°57.9'
3	243°24.5'	N 5°25.6'	41°56.5'	S 5°46.8'	331°58.5'	S 22°04.3'	192°51.2'	N 17°58.4'
4	258°27.6'	N 5°24.8'	56°59.3'	S 5°46.6'	347°00.9'	S 22°04.3'	207°51.9'	N 17°58.9'
5	273°30.7'	N 5°23.9'	72°02.0'	S 5°46.5'	2°03.4'	S 22°04.3'	222°52.6'	N 17°59.4'
6	288°33.8'	N 5°23.1'	87°04.8'	S 5°46.4'	17°05.9'	S 22°04.3'	237°53.3'	N 17°59.9'
7	303°36.9'	N 5°22.2'	102°07.6'	S 5°46.3'	32°08.3'	S 22°04.3'	252°54.0'	N 18°00.4'
8	318°40.0'	N 5°21.4'	117°10.3'	S 5°46.1'	47°10.8'	S 22°04.3'	267°54.7'	N 18°00.9'
9	333°43.1'	N 5°20.5'	132°13.1'	S 5°46.0'	62°13.3'	S 22°04.3'	282°55.4'	N 18°01.4'
10	348°46.2'	N 5°19.7'	147°15.8'	S 5°45.9'	77°15.7'	S 22°04.3'	297°56.1'	N 18°01.9'
11	3°49.2'	N 5°18.9'	162°18.6'	S 5°45.8'	92°18.2'	S 22°04.3'	312°56.8'	N 18°02.4'
12	18°52.3'	N 5°18.0'	177°21.4'	S 5°45.7'	107°20.6'	S 22°04.3'	327°57.5'	N 18°02.9'
13	33°55.4'	N 5°17.2'	192°24.1'	S 5°45.5'	122°23.1'	S 22°04.3'	342°58.2'	N 18°03.4'
14	48°58.5'	N 5°16.3'	207°26.9'	S 5°45.4'	137°25.6'	S 22°04.3'	357°58.9'	N 18°03.9'
15	64°01.5'	N 5°15.5'	222°29.7'	S 5°45.3'	152°28.0'	S 22°04.3'	12°59.5'	N 18°04.4'
16	79°04.6'	N 5°14.7'	237°32.4'	S 5°45.2'	167°30.5'	S 22°04.3'	28°00.2'	N 18°04.9'
17	94°07.7'	N 5°13.8'	252°35.2'	S 5°45.0'	182°33.0'	S 22°04.3'	43°00.9'	N 18°05.4'
18	109°10.7'	N 5°13.0'	267°37.9'	S 5°44.9'	197°35.4'	S 22°04.3'	58°01.6'	N 18°05.9'
19	124°13.8'	N 5°12.1'	282°40.7'	S 5°44.8'	212°37.9'	S 22°04.3'	73°02.3'	N 18°06.4'
20	139°16.8'	N 5°11.3'	297°43.5'	S 5°44.7'	227°40.4'	S 22°04.3'	88°03.0'	N 18°06.9'
21	154°19.9'	N 5°10.5'	312°46.2'	S 5°44.6'	242°42.8'	S 22°04.3'	103°03.7'	N 18°07.4'
22	169°22.9'	N 5°09.7'	327°49.0'	S 5°44.4'	257°45.3'	S 22°04.3'	118°04.4'	N 18°07.9'
23	184°25.9'	N 5°08.8'	342°51.8'	S 5°44.3'	272°47.8'	S 22°04.3'	133°05.1'	N 18°08.4'

Fri Apr 7, 2017 UTC

UTC	Venus -4.2 v = 3.0' d = 0.8'		Jupiter -2.3 v = 2.8' d = 0.1'		Saturn +0.4 v = 2.5' d = 0.0'		Mars +1.5 v = 0.7' d = 0.5'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	199°29.0'	N 5°08.0'	357°54.5'	S 5°44.2'	287°50.2'	S 22°04.3'	148°05.8'	N 18°08.9'
1	214°32.0'	N 5°07.2'	12°57.3'	S 5°44.1'	302°52.7'	S 22°04.3'	163°06.5'	N 18°09.4'
2	229°35.0'	N 5°06.3'	28°00.0'	S 5°44.0'	317°55.2'	S 22°04.3'	178°07.2'	N 18°09.9'
3	244°38.0'	N 5°05.5'	43°02.8'	S 5°43.8'	332°57.6'	S 22°04.3'	193°07.8'	N 18°10.4'
4	259°41.0'	N 5°04.7'	58°05.6'	S 5°43.7'	348°00.1'	S 22°04.3'	208°08.5'	N 18°10.9'
5	274°44.1'	N 5°03.9'	73°08.3'	S 5°43.6'	3°02.6'	S 22°04.3'	223°09.2'	N 18°11.4'
6	289°47.1'	N 5°03.0'	88°11.1'	S 5°43.5'	18°05.1'	S 22°04.3'	238°09.9'	N 18°11.9'
7	304°50.1'	N 5°02.2'	103°13.9'	S 5°43.3'	33°07.5'	S 22°04.3'	253°10.6'	N 18°12.4'
8	319°53.1'	N 5°01.4'	118°16.6'	S 5°43.2'	48°10.0'	S 22°04.3'	268°11.3'	N 18°12.9'
9	334°56.1'	N 5°00.6'	133°19.4'	S 5°43.1'	63°12.5'	S 22°04.3'	283°12.0'	N 18°13.4'
10	349°59.1'	N 4°59.8'	148°22.1'	S 5°43.0'	78°14.9'	S 22°04.2'	298°12.7'	N 18°13.8'
11	5°02.1'	N 4°59.0'	163°24.9'	S 5°42.9'	93°17.4'	S 22°04.2'	313°13.4'	N 18°14.3'
12	20°05.0'	N 4°58.1'	178°27.7'	S 5°42.7'	108°19.9'	S 22°04.2'	328°14.1'	N 18°14.8'
13	35°08.0'	N 4°57.3'	193°30.4'	S 5°42.6'	123°22.3'	S 22°04.2'	343°14.8'	N 18°15.3'
14	50°11.0'	N 4°56.5'	208°33.2'	S 5°42.5'	138°24.8'	S 22°04.2'	358°15.4'	N 18°15.8'
15	65°14.0'	N 4°55.7'	223°36.0'	S 5°42.4'	153°27.3'	S 22°04.2'	13°16.1'	N 18°16.3'
16	80°16.9'	N 4°54.9'	238°38.7'	S 5°42.3'	168°29.7'	S 22°04.2'	28°16.8'	N 18°16.8'
17	95°19.9'	N 4°54.1'	253°41.5'	S 5°42.1'	183°32.2'	S 22°04.2'	43°17.5'	N 18°17.3'
18	110°22.9'	N 4°53.3'	268°44.2'	S 5°42.0'	198°34.7'	S 22°04.2'	58°18.2'	N 18°17.8'
19	125°25.8'	N 4°52.5'	283°47.0'	S 5°41.9'	213°37.2'	S 22°04.2'	73°18.9'	N 18°18.3'
20	140°28.8'	N 4°51.7'	298°49.8'	S 5°41.8'	228°39.6'	S 22°04.2'	88°19.6'	N 18°18.8'
21	155°31.7'	N 4°50.9'	313°52.5'	S 5°41.6'	243°42.1'	S 22°04.2'	103°20.3'	N 18°19.3'
22	170°34.7'	N 4°50.1'	328°55.3'	S 5°41.5'	258°44.6'	S 22°04.2'	118°21.0'	N 18°19.8'
23	185°37.6'	N 4°49.3'	343°58.1'	S 5°41.4'	273°47.0'	S 22°04.2'	133°21.6'	N 18°20.2'

Sat Apr 8, 2017 UTC

UTC	Venus -4.3 v = 2.9' d = 0.8'		Jupiter -2.3 v = 2.8' d = 0.1'		Saturn +0.4 v = 2.5' d = 0.0'		Mars +1.5 v = 0.7' d = 0.5'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	200°40.6'	N 4°48.5'	359°00.8'	S 5°41.3'	288°49.5'	S 22°04.2'	148°22.3'	N 18°20.7'
1	215°43.5'	N 4°47.7'	14°03.6'	S 5°41.2'	303°52.0'	S 22°04.2'	163°23.0'	N 18°21.2'
2	230°46.4'	N 4°46.9'	29°06.3'	S 5°41.0'	318°54.5'	S 22°04.2'	178°23.7'	N 18°21.7'
3	245°49.4'	N 4°46.1'	44°09.1'	S 5°40.9'	333°56.9'	S 22°04.2'	193°24.4'	N 18°22.2'
4	260°52.3'	N 4°45.3'	59°11.9'	S 5°40.8'	348°59.4'	S 22°04.2'	208°25.1'	N 18°22.7'
5	275°55.2'	N 4°44.5'	74°14.6'	S 5°40.7'	4°01.9'	S 22°04.2'	223°25.8'	N 18°23.2'
6	290°58.1'	N 4°43.7'	89°17.4'	S 5°40.6'	19°04.4'	S 22°04.2'	238°26.5'	N 18°23.7'
7	306°01.0'	N 4°42.9'	104°20.2'	S 5°40.4'	34°06.8'	S 22°04.2'	253°27.2'	N 18°24.2'
8	321°03.9'	N 4°42.1'	119°22.9'	S 5°40.3'	49°09.3'	S 22°04.2'	268°27.8'	N 18°24.6'
9	336°06.8'	N 4°41.3'	134°25.7'	S 5°40.2'	64°11.8'	S 22°04.2'	283°28.5'	N 18°25.1'
10	351°09.7'	N 4°40.5'	149°28.4'	S 5°40.1'	79°14.2'	S 22°04.2'	298°29.2'	N 18°25.6'
11	6°12.6'	N 4°39.7'	164°31.2'	S 5°39.9'	94°16.7'	S 22°04.2'	313°29.9'	N 18°26.1'
12	21°15.5'	N 4°39.0'	179°34.0'	S 5°39.8'	109°19.2'	S 22°04.2'	328°30.6'	N 18°26.6'
13	36°18.4'	N 4°38.2'	194°36.7'	S 5°39.7'	124°21.7'	S 22°04.2'	343°31.3'	N 18°27.1'
14	51°21.3'	N 4°37.4'	209°39.5'	S 5°39.6'	139°24.1'	S 22°04.2'	358°32.0'	N 18°27.6'
15	66°24.2'	N 4°36.6'	224°42.3'	S 5°39.5'	154°26.6'	S 22°04.2'	13°32.7'	N 18°28.0'
16	81°27.0'	N 4°35.8'	239°45.0'	S 5°39.3'	169°29.1'	S 22°04.2'	28°33.4'	N 18°28.5'
17	96°29.9'	N 4°35.0'	254°47.8'	S 5°39.2'	184°31.6'	S 22°04.2'	43°34.0'	N 18°29.0'
18	111°32.8'	N 4°34.3'	269°50.5'	S 5°39.1'	199°34.0'	S 22°04.2'	58°34.7'	N 18°29.5'
19	126°35.6'	N 4°33.5'	284°53.3'	S 5°39.0'	214°36.5'	S 22°04.2'	73°35.4'	N 18°30.0'
20	141°38.5'	N 4°32.7'	299°56.1'	S 5°38.9'	229°39.0'	S 22°04.2'	88°36.1'	N 18°30.5'
21	156°41.4'	N 4°31.9'	314°58.8'	S 5°38.7'	244°41.5'	S 22°04.2'	103°36.8'	N 18°31.0'
22	171°44.2'	N 4°31.2'	330°01.6'	S 5°38.6'	259°43.9'	S 22°04.2'	118°37.5'	N 18°31.4'
23	186°47.1'	N 4°30.4'	345°04.4'	S 5°38.5'	274°46.4'	S 22°04.1'	133°38.2'	N 18°31.9'

Sun Apr 9, 2017 UTC

UTC	Venus -4.3 v = 2.8' d = 0.8'		Jupiter -2.3 v = 2.8' d = 0.1'		Saturn +0.4 v = 2.5' d = 0.0'		Mars +1.5 v = 0.7' d = 0.5'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	201°49.9'	N 4°29.6'	0°07.1'	S 5°38.4'	289°48.9'	S 22°04.1'	148°38.9'	N 18°32.4'
1	216°52.7'	N 4°28.9'	15°09.9'	S 5°38.2'	304°51.4'	S 22°04.1'	163°39.5'	N 18°32.9'
2	231°55.6'	N 4°28.1'	30°12.7'	S 5°38.1'	319°53.9'	S 22°04.1'	178°40.2'	N 18°33.4'
3	246°58.4'	N 4°27.3'	45°15.4'	S 5°38.0'	334°56.3'	S 22°04.1'	193°40.9'	N 18°33.8'
4	262°01.2'	N 4°26.6'	60°18.2'	S 5°37.9'	349°58.8'	S 22°04.1'	208°41.6'	N 18°34.3'
5	277°04.1'	N 4°25.8'	75°20.9'	S 5°37.8'	5°01.3'	S 22°04.1'	223°42.3'	N 18°34.8'
6	292°06.9'	N 4°25.1'	90°23.7'	S 5°37.6'	20°03.8'	S 22°04.1'	238°43.0'	N 18°35.3'
7	307°09.7'	N 4°24.3'	105°26.5'	S 5°37.5'	35°06.2'	S 22°04.1'	253°43.7'	N 18°35.8'
8	322°12.5'	N 4°23.5'	120°29.2'	S 5°37.4'	50°08.7'	S 22°04.1'	268°44.3'	N 18°36.3'
9	337°15.3'	N 4°22.8'	135°32.0'	S 5°37.3'	65°11.2'	S 22°04.1'	283°45.0'	N 18°36.7'
10	352°18.1'	N 4°22.0'	150°34.8'	S 5°37.2'	80°13.7'	S 22°04.1'	298°45.7'	N 18°37.2'
11	7°20.9'	N 4°21.3'	165°37.5'	S 5°37.0'	95°16.1'	S 22°04.1'	313°46.4'	N 18°37.7'
12	22°23.7'	N 4°20.5'	180°40.3'	S 5°36.9'	110°18.6'	S 22°04.1'	328°47.1'	N 18°38.2'
13	37°26.5'	N 4°19.8'	195°43.0'	S 5°36.8'	125°21.1'	S 22°04.1'	343°47.8'	N 18°38.6'
14	52°29.3'	N 4°19.0'	210°45.8'	S 5°36.7'	140°23.6'	S 22°04.1'	358°48.5'	N 18°39.1'
15	67°32.1'	N 4°18.3'	225°48.6'	S 5°36.5'	155°26.1'	S 22°04.1'	13°49.2'	N 18°39.6'
16	82°34.9'	N 4°17.5'	240°51.3'	S 5°36.4'	170°28.5'	S 22°04.1'	28°49.8'	N 18°40.1'
17	97°37.7'	N 4°16.8'	255°54.1'	S 5°36.3'	185°31.0'	S 22°04.1'	43°50.5'	N 18°40.6'
18	112°40.4'	N 4°16.0'	270°56.9'	S 5°36.2'	200°33.5'	S 22°04.1'	58°51.2'	N 18°41.0'
19	127°43.2'	N 4°15.3'	285°59.6'	S 5°36.1'	215°36.0'	S 22°04.1'	73°51.9'	N 18°41.5'
20	142°46.0'	N 4°14.6'	301°02.4'	S 5°35.9'	230°38.5'	S 22°04.1'	88°52.6'	N 18°42.0'
21	157°48.7'	N 4°13.8'	316°05.1'	S 5°35.8'	245°40.9'	S 22°04.1'	103°53.3'	N 18°42.5'
22	172°51.5'	N 4°13.1'	331°07.9'	S 5°35.7'	260°43.4'	S 22°04.1'	118°53.9'	N 18°42.9'
23	187°54.2'	N 4°12.3'	346°10.7'	S 5°35.6'	275°45.9'	S 22°04.1'	133°54.6'	N 18°43.4'

Mon Apr 10, 2017 UTC

UTC	Venus -4.3 v = 2.7' d = 0.7'		Jupiter -2.3 v = 2.8' d = 0.1'		Saturn +0.4 v = 2.5' d = 0.0'		Mars +1.5 v = 0.7' d = 0.5'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	202°57.0'	N 4°11.6'	1°13.4'	S 5°35.5'	290°48.4'	S 22°04.1'	148°55.3'	N 18°43.9'
1	217°59.7'	N 4°10.9'	16°16.2'	S 5°35.3'	305°50.9'	S 22°04.1'	163°56.0'	N 18°44.4'
2	233°02.5'	N 4°10.2'	31°19.0'	S 5°35.2'	320°53.3'	S 22°04.1'	178°56.7'	N 18°44.8'
3	248°05.2'	N 4°09.4'	46°21.7'	S 5°35.1'	335°55.8'	S 22°04.1'	193°57.4'	N 18°45.3'
4	263°07.9'	N 4°08.7'	61°24.5'	S 5°35.0'	350°58.3'	S 22°04.1'	208°58.1'	N 18°45.8'
5	278°10.7'	N 4°08.0'	76°27.2'	S 5°34.9'	6°00.8'	S 22°04.1'	223°58.7'	N 18°46.3'
6	293°13.4'	N 4°07.2'	91°30.0'	S 5°34.7'	21°03.3'	S 22°04.1'	238°59.4'	N 18°46.7'
7	308°16.1'	N 4°06.5'	106°32.8'	S 5°34.6'	36°05.8'	S 22°04.1'	254°00.1'	N 18°47.2'
8	323°18.8'	N 4°05.8'	121°35.5'	S 5°34.5'	51°08.2'	S 22°04.1'	269°00.8'	N 18°47.7'
9	338°21.5'	N 4°05.1'	136°38.3'	S 5°34.4'	66°10.7'	S 22°04.1'	284°01.5'	N 18°48.2'
10	353°24.2'	N 4°04.4'	151°41.1'	S 5°34.3'	81°13.2'	S 22°04.1'	299°02.2'	N 18°48.6'
11	8°27.0'	N 4°03.6'	166°43.8'	S 5°34.1'	96°15.7'	S 22°04.0'	314°02.8'	N 18°49.1'
12	23°29.7'	N 4°02.9'	181°46.6'	S 5°34.0'	111°18.2'	S 22°04.0'	329°03.5'	N 18°49.6'
13	38°32.4'	N 4°02.2'	196°49.3'	S 5°33.9'	126°20.6'	S 22°04.0'	344°04.2'	N 18°50.1'
14	53°35.0'	N 4°01.5'	211°52.1'	S 5°33.8'	141°23.1'	S 22°04.0'	359°04.9'	N 18°50.5'
15	68°37.7'	N 4°00.8'	226°54.9'	S 5°33.6'	156°25.6'	S 22°04.0'	14°05.6'	N 18°51.0'
16	83°40.4'	N 4°00.1'	241°57.6'	S 5°33.5'	171°28.1'	S 22°04.0'	29°06.3'	N 18°51.5'
17	98°43.1'	N 3°59.4'	257°00.4'	S 5°33.4'	186°30.6'	S 22°04.0'	44°07.0'	N 18°51.9'
18	113°45.8'	N 3°58.7'	272°03.1'	S 5°33.3'	201°33.1'	S 22°04.0'	59°07.6'	N 18°52.4'
19	128°48.5'	N 3°57.9'	287°05.9'	S 5°33.2'	216°35.6'	S 22°04.0'	74°08.3'	N 18°52.9'
20	143°51.1'	N 3°57.2'	302°08.7'	S 5°33.0'	231°38.0'	S 22°04.0'	89°09.0'	N 18°53.3'
21	158°53.8'	N 3°56.5'	317°11.4'	S 5°32.9'	246°40.5'	S 22°04.0'	104°09.7'	N 18°53.8'
22	173°56.4'	N 3°55.8'	332°14.2'	S 5°32.8'	261°43.0'	S 22°04.0'	119°10.4'	N 18°54.3'
23	188°59.1'	N 3°55.1'	347°17.0'	S 5°32.7'	276°45.5'	S 22°04.0'	134°11.1'	N 18°54.8'

Tue Apr 11, 2017 UTC

UTC	Venus -4.3		Jupiter -2.3		Saturn +0.4		Mars +1.5	
	v = 2.6' d = 0.7'		v = 2.8' d = 0.1'		v = 2.5' d = 0.0'		v = 0.7' d = 0.5'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	204°01.8'	N 3°54.4'	2°19.7'	S 5°32.6'	291°48.0'	S 22°04.0'	149°11.7'	N 18°55.2'
1	219°04.4'	N 3°53.7'	17°22.5'	S 5°32.4'	306°50.5'	S 22°04.0'	164°12.4'	N 18°55.7'
2	234°07.1'	N 3°53.1'	32°25.2'	S 5°32.3'	321°52.9'	S 22°04.0'	179°13.1'	N 18°56.2'
3	249°09.7'	N 3°52.4'	47°28.0'	S 5°32.2'	336°55.4'	S 22°04.0'	194°13.8'	N 18°56.6'
4	264°12.3'	N 3°51.7'	62°30.8'	S 5°32.1'	351°57.9'	S 22°04.0'	209°14.5'	N 18°57.1'
5	279°15.0'	N 3°51.0'	77°33.5'	S 5°32.0'	7°00.4'	S 22°04.0'	224°15.1'	N 18°57.6'
6	294°17.6'	N 3°50.3'	92°36.3'	S 5°31.8'	22°02.9'	S 22°04.0'	239°15.8'	N 18°58.0'
7	309°20.2'	N 3°49.6'	107°39.1'	S 5°31.7'	37°05.4'	S 22°04.0'	254°16.5'	N 18°58.5'
8	324°22.8'	N 3°48.9'	122°41.8'	S 5°31.6'	52°07.9'	S 22°04.0'	269°17.2'	N 18°59.0'
9	339°25.5'	N 3°48.2'	137°44.6'	S 5°31.5'	67°10.3'	S 22°04.0'	284°17.9'	N 18°59.4'
10	354°28.1'	N 3°47.5'	152°47.3'	S 5°31.4'	82°12.8'	S 22°04.0'	299°18.6'	N 18°59.9'
11	9°30.7'	N 3°46.9'	167°50.1'	S 5°31.2'	97°15.3'	S 22°04.0'	314°19.2'	N 19°00.4'
12	24°33.3'	N 3°46.2'	182°52.9'	S 5°31.1'	112°17.8'	S 22°04.0'	329°19.9'	N 19°00.8'
13	39°35.9'	N 3°45.5'	197°55.6'	S 5°31.0'	127°20.3'	S 22°04.0'	344°20.6'	N 19°01.3'
14	54°38.5'	N 3°44.8'	212°58.4'	S 5°30.9'	142°22.8'	S 22°04.0'	359°21.3'	N 19°01.7'
15	69°41.1'	N 3°44.2'	228°01.1'	S 5°30.8'	157°25.3'	S 22°04.0'	14°22.0'	N 19°02.2'
16	84°43.7'	N 3°43.5'	243°03.9'	S 5°30.6'	172°27.8'	S 22°04.0'	29°22.6'	N 19°02.7'
17	99°46.3'	N 3°42.8'	258°06.7'	S 5°30.5'	187°30.2'	S 22°04.0'	44°23.3'	N 19°03.1'
18	114°48.8'	N 3°42.1'	273°09.4'	S 5°30.4'	202°32.7'	S 22°04.0'	59°24.0'	N 19°03.6'
19	129°51.4'	N 3°41.5'	288°12.2'	S 5°30.3'	217°35.2'	S 22°04.0'	74°24.7'	N 19°04.1'
20	144°54.0'	N 3°40.8'	303°15.0'	S 5°30.2'	232°37.7'	S 22°04.0'	89°25.4'	N 19°04.5'
21	159°56.6'	N 3°40.2'	318°17.7'	S 5°30.0'	247°40.2'	S 22°04.0'	104°26.1'	N 19°05.0'
22	174°59.1'	N 3°39.5'	333°20.5'	S 5°29.9'	262°42.7'	S 22°04.0'	119°26.7'	N 19°05.4'
23	190°01.7'	N 3°38.8'	348°23.2'	S 5°29.8'	277°45.2'	S 22°03.9'	134°27.4'	N 19°05.9'

Wed Apr 12, 2017 UTC

UTC	Venus -4.3		Jupiter -2.3		Saturn +0.4		Mars +1.5	
	v = 2.5' d = 0.6'		v = 2.8' d = 0.1'		v = 2.5' d = 0.0'		v = 0.7' d = 0.5'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	205°04.3'	N 3°38.2'	3°26.0'	S 5°29.7'	292°47.7'	S 22°03.9'	149°28.1'	N 19°06.4'
1	220°06.8'	N 3°37.5'	18°28.8'	S 5°29.6'	307°50.2'	S 22°03.9'	164°28.8'	N 19°06.8'
2	235°09.4'	N 3°36.9'	33°31.5'	S 5°29.4'	322°52.7'	S 22°03.9'	179°29.5'	N 19°07.3'
3	250°11.9'	N 3°36.2'	48°34.3'	S 5°29.3'	337°55.1'	S 22°03.9'	194°30.1'	N 19°07.7'
4	265°14.5'	N 3°35.5'	63°37.0'	S 5°29.2'	352°57.6'	S 22°03.9'	209°30.8'	N 19°08.2'
5	280°17.0'	N 3°34.9'	78°39.8'	S 5°29.1'	8°00.1'	S 22°03.9'	224°31.5'	N 19°08.7'
6	295°19.5'	N 3°34.2'	93°42.6'	S 5°29.0'	23°02.6'	S 22°03.9'	239°32.2'	N 19°09.1'
7	310°22.1'	N 3°33.6'	108°45.3'	S 5°28.8'	38°05.1'	S 22°03.9'	254°32.9'	N 19°09.6'
8	325°24.6'	N 3°33.0'	123°48.1'	S 5°28.7'	53°07.6'	S 22°03.9'	269°33.5'	N 19°10.0'
9	340°27.1'	N 3°32.3'	138°50.9'	S 5°28.6'	68°10.1'	S 22°03.9'	284°34.2'	N 19°10.5'
10	355°29.6'	N 3°31.7'	153°53.6'	S 5°28.5'	83°12.6'	S 22°03.9'	299°34.9'	N 19°11.0'
11	10°32.1'	N 3°31.0'	168°56.4'	S 5°28.4'	98°15.1'	S 22°03.9'	314°35.6'	N 19°11.4'
12	25°34.7'	N 3°30.4'	183°59.1'	S 5°28.2'	113°17.6'	S 22°03.9'	329°36.3'	N 19°11.9'
13	40°37.2'	N 3°29.7'	199°01.9'	S 5°28.1'	128°20.1'	S 22°03.9'	344°36.9'	N 19°12.3'
14	55°39.7'	N 3°29.1'	214°04.7'	S 5°28.0'	143°22.5'	S 22°03.9'	359°37.6'	N 19°12.8'
15	70°42.2'	N 3°28.5'	229°07.4'	S 5°27.9'	158°25.0'	S 22°03.9'	14°38.3'	N 19°13.2'
16	85°44.7'	N 3°27.8'	244°10.2'	S 5°27.8'	173°27.5'	S 22°03.9'	29°39.0'	N 19°13.7'
17	100°47.2'	N 3°27.2'	259°12.9'	S 5°27.6'	188°30.0'	S 22°03.9'	44°39.7'	N 19°14.2'
18	115°49.6'	N 3°26.6'	274°15.7'	S 5°27.5'	203°32.5'	S 22°03.9'	59°40.3'	N 19°14.6'
19	130°52.1'	N 3°25.9'	289°18.5'	S 5°27.4'	218°35.0'	S 22°03.9'	74°41.0'	N 19°15.1'
20	145°54.6'	N 3°25.3'	304°21.2'	S 5°27.3'	233°37.5'	S 22°03.9'	89°41.7'	N 19°15.5'
21	160°57.1'	N 3°24.7'	319°24.0'	S 5°27.2'	248°40.0'	S 22°03.9'	104°42.4'	N 19°16.0'
22	175°59.6'	N 3°24.1'	334°26.7'	S 5°27.0'	263°42.5'	S 22°03.9'	119°43.1'	N 19°16.4'
23	191°02.0'	N 3°23.5'	349°29.5'	S 5°26.9'	278°45.0'	S 22°03.9'	134°43.7'	N 19°16.9'

Thu Apr 13, 2017 UTC

UTC	Venus -4.4 v = 2.4' d = 0.6'		Jupiter -2.3 v = 2.8' d = 0.1'		Saturn +0.3 v = 2.5' d = 0.0'		Mars +1.5 v = 0.7' d = 0.4'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	206°04.5'	N 3°22.8'	4°32.3'	S 5°26.8'	293°47.5'	S 22°03.9'	149°44.4'	N 19°17.3'
1	221°07.0'	N 3°22.2'	19°35.0'	S 5°26.7'	308°50.0'	S 22°03.9'	164°45.1'	N 19°17.8'
2	236°09.4'	N 3°21.6'	34°37.8'	S 5°26.6'	323°52.5'	S 22°03.9'	179°45.8'	N 19°18.2'
3	251°11.9'	N 3°21.0'	49°40.5'	S 5°26.4'	338°55.0'	S 22°03.9'	194°46.4'	N 19°18.7'
4	266°14.3'	N 3°20.4'	64°43.3'	S 5°26.3'	353°57.5'	S 22°03.9'	209°47.1'	N 19°19.1'
5	281°16.8'	N 3°19.8'	79°46.1'	S 5°26.2'	8°59.9'	S 22°03.9'	224°47.8'	N 19°19.6'
6	296°19.2'	N 3°19.2'	94°48.8'	S 5°26.1'	24°02.4'	S 22°03.9'	239°48.5'	N 19°20.1'
7	311°21.6'	N 3°18.5'	109°51.6'	S 5°26.0'	39°04.9'	S 22°03.9'	254°49.2'	N 19°20.5'
8	326°24.1'	N 3°17.9'	124°54.3'	S 5°25.8'	54°07.4'	S 22°03.9'	269°49.8'	N 19°21.0'
9	341°26.5'	N 3°17.3'	139°57.1'	S 5°25.7'	69°09.9'	S 22°03.8'	284°50.5'	N 19°21.4'
10	356°28.9'	N 3°16.7'	154°59.9'	S 5°25.6'	84°12.4'	S 22°03.8'	299°51.2'	N 19°21.9'
11	11°31.3'	N 3°16.1'	170°02.6'	S 5°25.5'	99°14.9'	S 22°03.8'	314°51.9'	N 19°22.3'
12	26°33.8'	N 3°15.5'	185°05.4'	S 5°25.4'	114°17.4'	S 22°03.8'	329°52.5'	N 19°22.8'
13	41°36.2'	N 3°14.9'	200°08.1'	S 5°25.2'	129°19.9'	S 22°03.8'	344°53.2'	N 19°23.2'
14	56°38.6'	N 3°14.3'	215°10.9'	S 5°25.1'	144°22.4'	S 22°03.8'	359°53.9'	N 19°23.7'
15	71°41.0'	N 3°13.7'	230°13.7'	S 5°25.0'	159°24.9'	S 22°03.8'	14°54.6'	N 19°24.1'
16	86°43.4'	N 3°13.2'	245°16.4'	S 5°24.9'	174°27.4'	S 22°03.8'	29°55.3'	N 19°24.6'
17	101°45.8'	N 3°12.6'	260°19.2'	S 5°24.8'	189°29.9'	S 22°03.8'	44°55.9'	N 19°25.0'
18	116°48.2'	N 3°12.0'	275°21.9'	S 5°24.7'	204°32.4'	S 22°03.8'	59°56.6'	N 19°25.4'
19	131°50.6'	N 3°11.4'	290°24.7'	S 5°24.5'	219°34.9'	S 22°03.8'	74°57.3'	N 19°25.9'
20	146°53.0'	N 3°10.8'	305°27.5'	S 5°24.4'	234°37.4'	S 22°03.8'	89°58.0'	N 19°26.3'
21	161°55.4'	N 3°10.2'	320°30.2'	S 5°24.3'	249°39.9'	S 22°03.8'	104°58.6'	N 19°26.8'
22	176°57.7'	N 3°09.6'	335°33.0'	S 5°24.2'	264°42.4'	S 22°03.8'	119°59.3'	N 19°27.2'
23	192°00.1'	N 3°09.1'	350°35.7'	S 5°24.1'	279°44.9'	S 22°03.8'	134°60.0'	N 19°27.7'

Fri Apr 14, 2017 UTC

UTC	Venus -4.4 v = 2.3' d = 0.6'		Jupiter -2.3 v = 2.8' d = 0.1'		Saturn +0.3 v = 2.5' d = 0.0'		Mars +1.5 v = 0.7' d = 0.4'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	207°02.5'	N 3°08.5'	5°38.5'	S 5°23.9'	294°47.4'	S 22°03.8'	150°00.7'	N 19°28.1'
1	222°04.8'	N 3°07.9'	20°41.3'	S 5°23.8'	309°49.9'	S 22°03.8'	165°01.3'	N 19°28.6'
2	237°07.2'	N 3°07.3'	35°44.0'	S 5°23.7'	324°52.4'	S 22°03.8'	180°02.0'	N 19°29.0'
3	252°09.6'	N 3°06.7'	50°46.8'	S 5°23.6'	339°54.9'	S 22°03.8'	195°02.7'	N 19°29.5'
4	267°11.9'	N 3°06.2'	65°49.5'	S 5°23.5'	354°57.4'	S 22°03.8'	210°03.4'	N 19°29.9'
5	282°14.3'	N 3°05.6'	80°52.3'	S 5°23.3'	9°59.9'	S 22°03.8'	225°04.0'	N 19°30.4'
6	297°16.6'	N 3°05.0'	95°55.1'	S 5°23.2'	25°02.4'	S 22°03.8'	240°04.7'	N 19°30.8'
7	312°19.0'	N 3°04.5'	110°57.8'	S 5°23.1'	40°04.9'	S 22°03.8'	255°05.4'	N 19°31.2'
8	327°21.3'	N 3°03.9'	126°00.6'	S 5°23.0'	55°07.4'	S 22°03.8'	270°06.1'	N 19°31.7'
9	342°23.7'	N 3°03.3'	141°03.3'	S 5°22.9'	70°09.9'	S 22°03.8'	285°06.8'	N 19°32.1'
10	357°26.0'	N 3°02.8'	156°06.1'	S 5°22.7'	85°12.4'	S 22°03.8'	300°07.4'	N 19°32.6'
11	12°28.3'	N 3°02.2'	171°08.9'	S 5°22.6'	100°14.9'	S 22°03.8'	315°08.1'	N 19°33.0'
12	27°30.6'	N 3°01.7'	186°11.6'	S 5°22.5'	115°17.4'	S 22°03.8'	330°08.8'	N 19°33.5'
13	42°33.0'	N 3°01.1'	201°14.4'	S 5°22.4'	130°19.9'	S 22°03.8'	345°09.5'	N 19°33.9'
14	57°35.3'	N 3°00.6'	216°17.1'	S 5°22.3'	145°22.4'	S 22°03.8'	0°10.1'	N 19°34.3'
15	72°37.6'	N 3°00.0'	231°19.9'	S 5°22.2'	160°24.9'	S 22°03.8'	15°10.8'	N 19°34.8'
16	87°39.9'	N 2°59.5'	246°22.6'	S 5°22.0'	175°27.4'	S 22°03.8'	30°11.5'	N 19°35.2'
17	102°42.2'	N 2°58.9'	261°25.4'	S 5°21.9'	190°29.9'	S 22°03.8'	45°12.2'	N 19°35.7'
18	117°44.5'	N 2°58.4'	276°28.2'	S 5°21.8'	205°32.4'	S 22°03.8'	60°12.8'	N 19°36.1'
19	132°46.8'	N 2°57.8'	291°30.9'	S 5°21.7'	220°34.9'	S 22°03.7'	75°13.5'	N 19°36.5'
20	147°49.1'	N 2°57.3'	306°33.7'	S 5°21.6'	235°37.4'	S 22°03.7'	90°14.2'	N 19°37.0'
21	162°51.4'	N 2°56.7'	321°36.4'	S 5°21.4'	250°39.9'	S 22°03.7'	105°14.9'	N 19°37.4'
22	177°53.7'	N 2°56.2'	336°39.2'	S 5°21.3'	265°42.4'	S 22°03.7'	120°15.5'	N 19°37.9'
23	192°56.0'	N 2°55.6'	351°42.0'	S 5°21.2'	280°44.9'	S 22°03.7'	135°16.2'	N 19°38.3'

Sat Apr 15, 2017 UTC

UTC	Venus -4.4 v = 2.2' d = 0.5'		Jupiter -2.3 v = 2.8' d = 0.1'		Saturn +0.3 v = 2.5' d = 0.0'		Mars +1.5 v = 0.7' d = 0.4'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	207°58.3'	N 2°55.1'	6°44.7'	S 5°21.1'	295°47.4'	S 22°03.7'	150°16.9'	N 19°38.7'
1	223°00.5'	N 2°54.6'	21°47.5'	S 5°21.0'	310°49.9'	S 22°03.7'	165°17.6'	N 19°39.2'
2	238°02.8'	N 2°54.0'	36°50.2'	S 5°20.9'	325°52.4'	S 22°03.7'	180°18.2'	N 19°39.6'
3	253°05.1'	N 2°53.5'	51°53.0'	S 5°20.7'	340°54.9'	S 22°03.7'	195°18.9'	N 19°40.1'
4	268°07.3'	N 2°53.0'	66°55.7'	S 5°20.6'	355°57.4'	S 22°03.7'	210°19.6'	N 19°40.5'
5	283°09.6'	N 2°52.5'	81°58.5'	S 5°20.5'	10°59.9'	S 22°03.7'	225°20.2'	N 19°40.9'
6	298°11.9'	N 2°51.9'	97°01.3'	S 5°20.4'	26°02.4'	S 22°03.7'	240°20.9'	N 19°41.4'
7	313°14.1'	N 2°51.4'	112°04.0'	S 5°20.3'	41°04.9'	S 22°03.7'	255°21.6'	N 19°41.8'
8	328°16.4'	N 2°50.9'	127°06.8'	S 5°20.1'	56°07.4'	S 22°03.7'	270°22.3'	N 19°42.2'
9	343°18.6'	N 2°50.4'	142°09.5'	S 5°20.0'	71°09.9'	S 22°03.7'	285°22.9'	N 19°42.7'
10	358°20.8'	N 2°49.8'	157°12.3'	S 5°19.9'	86°12.4'	S 22°03.7'	300°23.6'	N 19°43.1'
11	13°23.1'	N 2°49.3'	172°15.0'	S 5°19.8'	101°14.9'	S 22°03.7'	315°24.3'	N 19°43.6'
12	28°25.3'	N 2°48.8'	187°17.8'	S 5°19.7'	116°17.4'	S 22°03.7'	330°25.0'	N 19°44.0'
13	43°27.6'	N 2°48.3'	202°20.6'	S 5°19.6'	131°19.9'	S 22°03.7'	345°25.6'	N 19°44.4'
14	58°29.8'	N 2°47.8'	217°23.3'	S 5°19.4'	146°22.4'	S 22°03.7'	0°26.3'	N 19°44.9'
15	73°32.0'	N 2°47.3'	232°26.1'	S 5°19.3'	161°24.9'	S 22°03.7'	15°27.0'	N 19°45.3'
16	88°34.2'	N 2°46.8'	247°28.8'	S 5°19.2'	176°27.5'	S 22°03.7'	30°27.7'	N 19°45.7'
17	103°36.4'	N 2°46.3'	262°31.6'	S 5°19.1'	191°30.0'	S 22°03.7'	45°28.3'	N 19°46.2'
18	118°38.7'	N 2°45.8'	277°34.4'	S 5°19.0'	206°32.5'	S 22°03.7'	60°29.0'	N 19°46.6'
19	133°40.9'	N 2°45.3'	292°37.1'	S 5°18.9'	221°35.0'	S 22°03.7'	75°29.7'	N 19°47.0'
20	148°43.1'	N 2°44.8'	307°39.9'	S 5°18.7'	236°37.5'	S 22°03.7'	90°30.3'	N 19°47.5'
21	163°45.3'	N 2°44.3'	322°42.6'	S 5°18.6'	251°40.0'	S 22°03.7'	105°31.0'	N 19°47.9'
22	178°47.5'	N 2°43.8'	337°45.4'	S 5°18.5'	266°42.5'	S 22°03.7'	120°31.7'	N 19°48.3'
23	193°49.7'	N 2°43.3'	352°48.1'	S 5°18.4'	281°45.0'	S 22°03.7'	135°32.4'	N 19°48.7'

Sun Apr 16, 2017 UTC

UTC	Venus -4.4 v = 2.1' d = 0.5'		Jupiter -2.3 v = 2.8' d = 0.1'		Saturn +0.3 v = 2.5' d = 0.0'		Mars +1.5 v = 0.7' d = 0.4'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	208°51.9'	N 2°42.8'	7°50.9'	S 5°18.3'	296°47.5'	S 22°03.7'	150°33.0'	N 19°49.2'
1	223°54.0'	N 2°42.3'	22°53.6'	S 5°18.1'	311°50.0'	S 22°03.7'	165°33.7'	N 19°49.6'
2	238°56.2'	N 2°41.8'	37°56.4'	S 5°18.0'	326°52.5'	S 22°03.7'	180°34.4'	N 19°50.0'
3	253°58.4'	N 2°41.3'	52°59.2'	S 5°17.9'	341°55.0'	S 22°03.7'	195°35.1'	N 19°50.5'
4	269°00.6'	N 2°40.8'	68°01.9'	S 5°17.8'	356°57.5'	S 22°03.7'	210°35.7'	N 19°50.9'
5	284°02.8'	N 2°40.3'	83°04.7'	S 5°17.7'	12°00.0'	S 22°03.6'	225°36.4'	N 19°51.3'
6	299°04.9'	N 2°39.8'	98°07.4'	S 5°17.6'	27°02.5'	S 22°03.6'	240°37.1'	N 19°51.8'
7	314°07.1'	N 2°39.4'	113°10.2'	S 5°17.4'	42°05.1'	S 22°03.6'	255°37.7'	N 19°52.2'
8	329°09.2'	N 2°38.9'	128°12.9'	S 5°17.3'	57°07.6'	S 22°03.6'	270°38.4'	N 19°52.6'
9	344°11.4'	N 2°38.4'	143°15.7'	S 5°17.2'	72°10.1'	S 22°03.6'	285°39.1'	N 19°53.0'
10	359°13.6'	N 2°37.9'	158°18.5'	S 5°17.1'	87°12.6'	S 22°03.6'	300°39.8'	N 19°53.5'
11	14°15.7'	N 2°37.5'	173°21.2'	S 5°17.0'	102°15.1'	S 22°03.6'	315°40.4'	N 19°53.9'
12	29°17.9'	N 2°37.0'	188°24.0'	S 5°16.9'	117°17.6'	S 22°03.6'	330°41.1'	N 19°54.3'
13	44°20.0'	N 2°36.5'	203°26.7'	S 5°16.7'	132°20.1'	S 22°03.6'	345°41.8'	N 19°54.8'
14	59°22.1'	N 2°36.0'	218°29.5'	S 5°16.6'	147°22.6'	S 22°03.6'	0°42.4'	N 19°55.2'
15	74°24.3'	N 2°35.6'	233°32.2'	S 5°16.5'	162°25.1'	S 22°03.6'	15°43.1'	N 19°55.6'
16	89°26.4'	N 2°35.1'	248°35.0'	S 5°16.4'	177°27.6'	S 22°03.6'	30°43.8'	N 19°56.0'
17	104°28.5'	N 2°34.6'	263°37.7'	S 5°16.3'	192°30.1'	S 22°03.6'	45°44.4'	N 19°56.5'
18	119°30.7'	N 2°34.2'	278°40.5'	S 5°16.2'	207°32.7'	S 22°03.6'	60°45.1'	N 19°56.9'
19	134°32.8'	N 2°33.7'	293°43.3'	S 5°16.0'	222°35.2'	S 22°03.6'	75°45.8'	N 19°57.3'
20	149°34.9'	N 2°33.3'	308°46.0'	S 5°15.9'	237°37.7'	S 22°03.6'	90°46.5'	N 19°57.7'
21	164°37.0'	N 2°32.8'	323°48.8'	S 5°15.8'	252°40.2'	S 22°03.6'	105°47.1'	N 19°58.2'
22	179°39.1'	N 2°32.4'	338°51.5'	S 5°15.7'	267°42.7'	S 22°03.6'	120°47.8'	N 19°58.6'
23	194°41.2'	N 2°31.9'	353°54.3'	S 5°15.6'	282°45.2'	S 22°03.6'	135°48.5'	N 19°59.0'

Mon Apr 17, 2017 UTC

UTC	Venus -4.4 v = 2.1' d = 0.4'		Jupiter -2.3 v = 2.8' d = 0.1'		Saturn +0.3 v = 2.5' d = 0.0'		Mars +1.5 v = 0.7' d = 0.4'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	209°43.3'	N 2°31.5'	8°57.0'	S 5°15.5'	297°47.7'	S 22°03.6'	150°49.1'	N 19°59.4'
1	224°45.4'	N 2°31.0'	23°59.8'	S 5°15.3'	312°50.2'	S 22°03.6'	165°49.8'	N 19°59.9'
2	239°47.5'	N 2°30.6'	39°02.5'	S 5°15.2'	327°52.7'	S 22°03.6'	180°50.5'	N 20°00.3'
3	254°49.6'	N 2°30.1'	54°05.3'	S 5°15.1'	342°55.3'	S 22°03.6'	195°51.2'	N 20°00.7'
4	269°51.7'	N 2°29.7'	69°08.1'	S 5°15.0'	357°57.8'	S 22°03.6'	210°51.8'	N 20°01.1'
5	284°53.8'	N 2°29.2'	84°10.8'	S 5°14.9'	13°00.3'	S 22°03.6'	225°52.5'	N 20°01.5'
6	299°55.9'	N 2°28.8'	99°13.6'	S 5°14.8'	28°02.8'	S 22°03.6'	240°53.2'	N 20°02.0'
7	314°57.9'	N 2°28.3'	114°16.3'	S 5°14.6'	43°05.3'	S 22°03.6'	255°53.8'	N 20°02.4'
8	330°00.0'	N 2°27.9'	129°19.1'	S 5°14.5'	58°07.8'	S 22°03.6'	270°54.5'	N 20°02.8'
9	345°02.1'	N 2°27.5'	144°21.8'	S 5°14.4'	73°10.3'	S 22°03.6'	285°55.2'	N 20°03.2'
10	0°04.2'	N 2°27.0'	159°24.6'	S 5°14.3'	88°12.8'	S 22°03.6'	300°55.8'	N 20°03.7'
11	15°06.2'	N 2°26.6'	174°27.3'	S 5°14.2'	103°15.4'	S 22°03.6'	315°56.5'	N 20°04.1'
12	30°08.3'	N 2°26.2'	189°30.1'	S 5°14.1'	118°17.9'	S 22°03.6'	330°57.2'	N 20°04.5'
13	45°10.3'	N 2°25.8'	204°32.8'	S 5°13.9'	133°20.4'	S 22°03.6'	345°57.8'	N 20°04.9'
14	60°12.4'	N 2°25.3'	219°35.6'	S 5°13.8'	148°22.9'	S 22°03.5'	0°58.5'	N 20°05.3'
15	75°14.4'	N 2°24.9'	234°38.4'	S 5°13.7'	163°25.4'	S 22°03.5'	15°59.2'	N 20°05.7'
16	90°16.5'	N 2°24.5'	249°41.1'	S 5°13.6'	178°27.9'	S 22°03.5'	30°59.9'	N 20°06.2'
17	105°18.5'	N 2°24.1'	264°43.9'	S 5°13.5'	193°30.4'	S 22°03.5'	46°00.5'	N 20°06.6'
18	120°20.6'	N 2°23.6'	279°46.6'	S 5°13.4'	208°33.0'	S 22°03.5'	61°01.2'	N 20°07.0'
19	135°22.6'	N 2°23.2'	294°49.4'	S 5°13.3'	223°35.5'	S 22°03.5'	76°01.9'	N 20°07.4'
20	150°24.6'	N 2°22.8'	309°52.1'	S 5°13.1'	238°38.0'	S 22°03.5'	91°02.5'	N 20°07.8'
21	165°26.7'	N 2°22.4'	324°54.9'	S 5°13.0'	253°40.5'	S 22°03.5'	106°03.2'	N 20°08.3'
22	180°28.7'	N 2°22.0'	339°57.6'	S 5°12.9'	268°43.0'	S 22°03.5'	121°03.9'	N 20°08.7'
23	195°30.7'	N 2°21.6'	355°00.4'	S 5°12.8'	283°45.5'	S 22°03.5'	136°04.5'	N 20°09.1'

Tue Apr 18, 2017 UTC

UTC	Venus -4.4 v = 2.0' d = 0.4'		Jupiter -2.3 v = 2.8' d = 0.1'		Saturn +0.3 v = 2.5' d = 0.0'		Mars +1.5 v = 0.7' d = 0.4'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	210°32.7'	N 2°21.2'	10°03.1'	S 5°12.7'	298°48.0'	S 22°03.5'	151°05.2'	N 20°09.5'
1	225°34.7'	N 2°20.8'	25°05.9'	S 5°12.6'	313°50.6'	S 22°03.5'	166°05.9'	N 20°09.9'
2	240°36.7'	N 2°20.4'	40°08.6'	S 5°12.4'	328°53.1'	S 22°03.5'	181°06.5'	N 20°10.3'
3	255°38.8'	N 2°20.0'	55°11.4'	S 5°12.3'	343°55.6'	S 22°03.5'	196°07.2'	N 20°10.8'
4	270°40.8'	N 2°19.6'	70°14.1'	S 5°12.2'	358°58.1'	S 22°03.5'	211°07.9'	N 20°11.2'
5	285°42.8'	N 2°19.2'	85°16.9'	S 5°12.1'	14°00.6'	S 22°03.5'	226°08.5'	N 20°11.6'
6	300°44.8'	N 2°18.8'	100°19.7'	S 5°12.0'	29°03.1'	S 22°03.5'	241°09.2'	N 20°12.0'
7	315°46.7'	N 2°18.4'	115°22.4'	S 5°11.9'	44°05.7'	S 22°03.5'	256°09.9'	N 20°12.4'
8	330°48.7'	N 2°18.0'	130°25.2'	S 5°11.8'	59°08.2'	S 22°03.5'	271°10.5'	N 20°12.8'
9	345°50.7'	N 2°17.6'	145°27.9'	S 5°11.6'	74°10.7'	S 22°03.5'	286°11.2'	N 20°13.2'
10	0°52.7'	N 2°17.2'	160°30.7'	S 5°11.5'	89°13.2'	S 22°03.5'	301°11.9'	N 20°13.6'
11	15°54.7'	N 2°16.8'	175°33.4'	S 5°11.4'	104°15.7'	S 22°03.5'	316°12.5'	N 20°14.1'
12	30°56.7'	N 2°16.4'	190°36.2'	S 5°11.3'	119°18.2'	S 22°03.5'	331°13.2'	N 20°14.5'
13	45°58.6'	N 2°16.0'	205°38.9'	S 5°11.2'	134°20.8'	S 22°03.5'	346°13.9'	N 20°14.9'
14	61°00.6'	N 2°15.7'	220°41.7'	S 5°11.1'	149°23.3'	S 22°03.5'	1°14.5'	N 20°15.3'
15	76°02.6'	N 2°15.3'	235°44.4'	S 5°10.9'	164°25.8'	S 22°03.5'	16°15.2'	N 20°15.7'
16	91°04.5'	N 2°14.9'	250°47.2'	S 5°10.8'	179°28.3'	S 22°03.5'	31°15.9'	N 20°16.1'
17	106°06.5'	N 2°14.5'	265°49.9'	S 5°10.7'	194°30.8'	S 22°03.5'	46°16.5'	N 20°16.5'
18	121°08.4'	N 2°14.1'	280°52.7'	S 5°10.6'	209°33.4'	S 22°03.5'	61°17.2'	N 20°16.9'
19	136°10.4'	N 2°13.8'	295°55.4'	S 5°10.5'	224°35.9'	S 22°03.5'	76°17.9'	N 20°17.3'
20	151°12.3'	N 2°13.4'	310°58.2'	S 5°10.4'	239°38.4'	S 22°03.5'	91°18.5'	N 20°17.8'
21	166°14.3'	N 2°13.0'	326°00.9'	S 5°10.3'	254°40.9'	S 22°03.5'	106°19.2'	N 20°18.2'
22	181°16.2'	N 2°12.7'	341°03.7'	S 5°10.1'	269°43.4'	S 22°03.5'	121°19.9'	N 20°18.6'
23	196°18.2'	N 2°12.3'	356°06.4'	S 5°10.0'	284°45.9'	S 22°03.5'	136°20.5'	N 20°19.0'

Wed Apr 19, 2017 UTC

UTC	Venus -4.4		Jupiter -2.3		Saturn +0.3		Mars +1.6	
	v = 1.9' d = 0.3'		v = 2.8' d = 0.1'		v = 2.5' d = 0.0'		v = 0.7' d = 0.4'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	211°20.1'	N 2°11.9'	11°09.2'	S 5°09.9'	299°48.5'	S 22°03.4'	151°21.2'	N 20°19.4'
1	226°22.0'	N 2°11.6'	26°11.9'	S 5°09.8'	314°51.0'	S 22°03.4'	166°21.9'	N 20°19.8'
2	241°24.0'	N 2°11.2'	41°14.7'	S 5°09.7'	329°53.5'	S 22°03.4'	181°22.5'	N 20°20.2'
3	256°25.9'	N 2°10.8'	56°17.4'	S 5°09.6'	344°56.0'	S 22°03.4'	196°23.2'	N 20°20.6'
4	271°27.8'	N 2°10.5'	71°20.2'	S 5°09.5'	359°58.5'	S 22°03.4'	211°23.9'	N 20°21.0'
5	286°29.7'	N 2°10.1'	86°22.9'	S 5°09.3'	15°01.1'	S 22°03.4'	226°24.5'	N 20°21.4'
6	301°31.6'	N 2°09.8'	101°25.7'	S 5°09.2'	30°03.6'	S 22°03.4'	241°25.2'	N 20°21.8'
7	316°33.5'	N 2°09.4'	116°28.4'	S 5°09.1'	45°06.1'	S 22°03.4'	256°25.9'	N 20°22.2'
8	331°35.5'	N 2°09.1'	131°31.2'	S 5°09.0'	60°08.6'	S 22°03.4'	271°26.5'	N 20°22.6'
9	346°37.4'	N 2°08.7'	146°33.9'	S 5°08.9'	75°11.2'	S 22°03.4'	286°27.2'	N 20°23.1'
10	1°39.3'	N 2°08.4'	161°36.7'	S 5°08.8'	90°13.7'	S 22°03.4'	301°27.9'	N 20°23.5'
11	16°41.2'	N 2°08.0'	176°39.4'	S 5°08.7'	105°16.2'	S 22°03.4'	316°28.5'	N 20°23.9'
12	31°43.0'	N 2°07.7'	191°42.2'	S 5°08.5'	120°18.7'	S 22°03.4'	331°29.2'	N 20°24.3'
13	46°44.9'	N 2°07.4'	206°44.9'	S 5°08.4'	135°21.2'	S 22°03.4'	346°29.9'	N 20°24.7'
14	61°46.8'	N 2°07.0'	221°47.7'	S 5°08.3'	150°23.8'	S 22°03.4'	1°30.5'	N 20°25.1'
15	76°48.7'	N 2°06.7'	236°50.4'	S 5°08.2'	165°26.3'	S 22°03.4'	16°31.2'	N 20°25.5'
16	91°50.6'	N 2°06.3'	251°53.2'	S 5°08.1'	180°28.8'	S 22°03.4'	31°31.9'	N 20°25.9'
17	106°52.5'	N 2°06.0'	266°55.9'	S 5°08.0'	195°31.3'	S 22°03.4'	46°32.5'	N 20°26.3'
18	121°54.3'	N 2°05.7'	281°58.7'	S 5°07.9'	210°33.9'	S 22°03.4'	61°33.2'	N 20°26.7'
19	136°56.2'	N 2°05.3'	297°01.4'	S 5°07.7'	225°36.4'	S 22°03.4'	76°33.8'	N 20°27.1'
20	151°58.1'	N 2°05.0'	312°04.2'	S 5°07.6'	240°38.9'	S 22°03.4'	91°34.5'	N 20°27.5'
21	166°59.9'	N 2°04.7'	327°06.9'	S 5°07.5'	255°41.4'	S 22°03.4'	106°35.2'	N 20°27.9'
22	182°01.8'	N 2°04.4'	342°09.7'	S 5°07.4'	270°43.9'	S 22°03.4'	121°35.8'	N 20°28.3'
23	197°03.7'	N 2°04.0'	357°12.4'	S 5°07.3'	285°46.5'	S 22°03.4'	136°36.5'	N 20°28.7'

Thu Apr 20, 2017 UTC

UTC	Venus -4.5		Jupiter -2.3		Saturn +0.3		Mars +1.6	
	v = 1.8' d = 0.3'		v = 2.7' d = 0.1'		v = 2.5' d = 0.0'		v = 0.7' d = 0.4'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	212°05.5'	N 2°03.7'	12°15.2'	S 5°07.2'	300°49.0'	S 22°03.4'	151°37.2'	N 20°29.1'
1	227°07.4'	N 2°03.4'	27°17.9'	S 5°07.1'	315°51.5'	S 22°03.4'	166°37.8'	N 20°29.5'
2	242°09.2'	N 2°03.1'	42°20.7'	S 5°07.0'	330°54.0'	S 22°03.4'	181°38.5'	N 20°29.9'
3	257°11.1'	N 2°02.8'	57°23.4'	S 5°06.8'	345°56.6'	S 22°03.4'	196°39.2'	N 20°30.3'
4	272°12.9'	N 2°02.4'	72°26.2'	S 5°06.7'	0°59.1'	S 22°03.4'	211°39.8'	N 20°30.7'
5	287°14.7'	N 2°02.1'	87°28.9'	S 5°06.6'	16°01.6'	S 22°03.4'	226°40.5'	N 20°31.1'
6	302°16.6'	N 2°01.8'	102°31.7'	S 5°06.5'	31°04.1'	S 22°03.4'	241°41.1'	N 20°31.5'
7	317°18.4'	N 2°01.5'	117°34.4'	S 5°06.4'	46°06.7'	S 22°03.4'	256°41.8'	N 20°31.9'
8	332°20.2'	N 2°01.2'	132°37.2'	S 5°06.3'	61°09.2'	S 22°03.3'	271°42.5'	N 20°32.3'
9	347°22.0'	N 2°00.9'	147°39.9'	S 5°06.2'	76°11.7'	S 22°03.3'	286°43.1'	N 20°32.7'
10	2°23.9'	N 2°00.6'	162°42.7'	S 5°06.1'	91°14.2'	S 22°03.3'	301°43.8'	N 20°33.1'
11	17°25.7'	N 2°00.3'	177°45.4'	S 5°05.9'	106°16.8'	S 22°03.3'	316°44.5'	N 20°33.5'
12	32°27.5'	N 1°60.0'	192°48.2'	S 5°05.8'	121°19.3'	S 22°03.3'	331°45.1'	N 20°33.9'
13	47°29.3'	N 1°59.7'	207°50.9'	S 5°05.7'	136°21.8'	S 22°03.3'	346°45.8'	N 20°34.3'
14	62°31.1'	N 1°59.4'	222°53.7'	S 5°05.6'	151°24.3'	S 22°03.3'	1°46.5'	N 20°34.7'
15	77°32.9'	N 1°59.1'	237°56.4'	S 5°05.5'	166°26.9'	S 22°03.3'	16°47.1'	N 20°35.1'
16	92°34.7'	N 1°58.8'	252°59.2'	S 5°05.4'	181°29.4'	S 22°03.3'	31°47.8'	N 20°35.5'
17	107°36.5'	N 1°58.5'	268°01.9'	S 5°05.3'	196°31.9'	S 22°03.3'	46°48.4'	N 20°35.9'
18	122°38.3'	N 1°58.2'	283°04.7'	S 5°05.1'	211°34.5'	S 22°03.3'	61°49.1'	N 20°36.2'
19	137°40.1'	N 1°57.9'	298°07.4'	S 5°05.0'	226°37.0'	S 22°03.3'	76°49.8'	N 20°36.6'
20	152°41.9'	N 1°57.7'	313°10.2'	S 5°04.9'	241°39.5'	S 22°03.3'	91°50.4'	N 20°37.0'
21	167°43.7'	N 1°57.4'	328°12.9'	S 5°04.8'	256°42.0'	S 22°03.3'	106°51.1'	N 20°37.4'
22	182°45.5'	N 1°57.1'	343°15.6'	S 5°04.7'	271°44.6'	S 22°03.3'	121°51.7'	N 20°37.8'
23	197°47.2'	N 1°56.8'	358°18.4'	S 5°04.6'	286°47.1'	S 22°03.3'	136°52.4'	N 20°38.2'

Fri Apr 21, 2017 UTC

UTC	Venus -4.5		Jupiter -2.3		Saturn +0.3		Mars +1.6	
	v = 1.7' d = 0.3'		v = 2.7' d = 0.1'		v = 2.5' d = 0.0'		v = 0.7' d = 0.4'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	212°49.0'	N 1°56.5'	13°21.1'	S 5°04.5'	301°49.6'	S 22°03.3'	151°53.1'	N 20°38.6'
1	227°50.8'	N 1°56.3'	28°23.9'	S 5°04.4'	316°52.1'	S 22°03.3'	166°53.7'	N 20°39.0'
2	242°52.6'	N 1°56.0'	43°26.6'	S 5°04.3'	331°54.7'	S 22°03.3'	181°54.4'	N 20°39.4'
3	257°54.3'	N 1°55.7'	58°29.4'	S 5°04.1'	346°57.2'	S 22°03.3'	196°55.1'	N 20°39.8'
4	272°56.1'	N 1°55.4'	73°32.1'	S 5°04.0'	1°59.7'	S 22°03.3'	211°55.7'	N 20°40.2'
5	287°57.9'	N 1°55.2'	88°34.9'	S 5°03.9'	17°02.3'	S 22°03.3'	226°56.4'	N 20°40.6'
6	302°59.6'	N 1°54.9'	103°37.6'	S 5°03.8'	32°04.8'	S 22°03.3'	241°57.0'	N 20°41.0'
7	318°01.4'	N 1°54.6'	118°40.4'	S 5°03.7'	47°07.3'	S 22°03.3'	256°57.7'	N 20°41.3'
8	333°03.1'	N 1°54.4'	133°43.1'	S 5°03.6'	62°09.8'	S 22°03.3'	271°58.4'	N 20°41.7'
9	348°04.9'	N 1°54.1'	148°45.9'	S 5°03.5'	77°12.4'	S 22°03.3'	286°59.0'	N 20°42.1'
10	3°06.6'	N 1°53.8'	163°48.6'	S 5°03.4'	92°14.9'	S 22°03.3'	301°59.7'	N 20°42.5'
11	18°08.3'	N 1°53.6'	178°51.3'	S 5°03.2'	107°17.4'	S 22°03.3'	317°00.3'	N 20°42.9'
12	33°10.1'	N 1°53.3'	193°54.1'	S 5°03.1'	122°20.0'	S 22°03.3'	332°01.0'	N 20°43.3'
13	48°11.8'	N 1°53.1'	208°56.8'	S 5°03.0'	137°22.5'	S 22°03.3'	347°01.7'	N 20°43.7'
14	63°13.5'	N 1°52.8'	223°59.6'	S 5°02.9'	152°25.0'	S 22°03.3'	2°02.3'	N 20°44.1'
15	78°15.3'	N 1°52.6'	239°02.3'	S 5°02.8'	167°27.6'	S 22°03.3'	17°03.0'	N 20°44.5'
16	93°17.0'	N 1°52.3'	254°05.1'	S 5°02.7'	182°30.1'	S 22°03.3'	32°03.7'	N 20°44.8'
17	108°18.7'	N 1°52.1'	269°07.8'	S 5°02.6'	197°32.6'	S 22°03.2'	47°04.3'	N 20°45.2'
18	123°20.4'	N 1°51.8'	284°10.6'	S 5°02.5'	212°35.2'	S 22°03.2'	62°05.0'	N 20°45.6'
19	138°22.2'	N 1°51.6'	299°13.3'	S 5°02.4'	227°37.7'	S 22°03.2'	77°05.6'	N 20°46.0'
20	153°23.9'	N 1°51.3'	314°16.0'	S 5°02.2'	242°40.2'	S 22°03.2'	92°06.3'	N 20°46.4'
21	168°25.6'	N 1°51.1'	329°18.8'	S 5°02.1'	257°42.7'	S 22°03.2'	107°07.0'	N 20°46.8'
22	183°27.3'	N 1°50.8'	344°21.5'	S 5°02.0'	272°45.3'	S 22°03.2'	122°07.6'	N 20°47.2'
23	198°29.0'	N 1°50.6'	359°24.3'	S 5°01.9'	287°47.8'	S 22°03.2'	137°08.3'	N 20°47.5'

Sat Apr 22, 2017 UTC

UTC	Venus -4.5		Jupiter -2.3		Saturn +0.3		Mars +1.6	
	v = 1.7' d = 0.2'		v = 2.7' d = 0.1'		v = 2.5' d = 0.0'		v = 0.7' d = 0.4'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	213°30.7'	N 1°50.4'	14°27.0'	S 5°01.8'	302°50.3'	S 22°03.2'	152°08.9'	N 20°47.9'
1	228°32.4'	N 1°50.1'	29°29.8'	S 5°01.7'	317°52.9'	S 22°03.2'	167°09.6'	N 20°48.3'
2	243°34.1'	N 1°49.9'	44°32.5'	S 5°01.6'	332°55.4'	S 22°03.2'	182°10.3'	N 20°48.7'
3	258°35.8'	N 1°49.7'	59°35.3'	S 5°01.5'	347°57.9'	S 22°03.2'	197°10.9'	N 20°49.1'
4	273°37.5'	N 1°49.4'	74°38.0'	S 5°01.4'	3°00.5'	S 22°03.2'	212°11.6'	N 20°49.5'
5	288°39.1'	N 1°49.2'	89°40.7'	S 5°01.2'	18°03.0'	S 22°03.2'	227°12.2'	N 20°49.9'
6	303°40.8'	N 1°49.0'	104°43.5'	S 5°01.1'	33°05.5'	S 22°03.2'	242°12.9'	N 20°50.2'
7	318°42.5'	N 1°48.8'	119°46.2'	S 5°01.0'	48°08.1'	S 22°03.2'	257°13.6'	N 20°50.6'
8	333°44.2'	N 1°48.5'	134°49.0'	S 5°00.9'	63°10.6'	S 22°03.2'	272°14.2'	N 20°51.0'
9	348°45.9'	N 1°48.3'	149°51.7'	S 5°00.8'	78°13.1'	S 22°03.2'	287°14.9'	N 20°51.4'
10	3°47.5'	N 1°48.1'	164°54.5'	S 5°00.7'	93°15.7'	S 22°03.2'	302°15.5'	N 20°51.8'
11	18°49.2'	N 1°47.9'	179°57.2'	S 5°00.6'	108°18.2'	S 22°03.2'	317°16.2'	N 20°52.1'
12	33°50.9'	N 1°47.7'	194°59.9'	S 5°00.5'	123°20.7'	S 22°03.2'	332°16.8'	N 20°52.5'
13	48°52.5'	N 1°47.5'	210°02.7'	S 5°00.4'	138°23.3'	S 22°03.2'	347°17.5'	N 20°52.9'
14	63°54.2'	N 1°47.2'	225°05.4'	S 5°00.3'	153°25.8'	S 22°03.2'	2°18.2'	N 20°53.3'
15	78°55.8'	N 1°47.0'	240°08.2'	S 5°00.1'	168°28.4'	S 22°03.2'	17°18.8'	N 20°53.7'
16	93°57.5'	N 1°46.8'	255°10.9'	S 5°00.0'	183°30.9'	S 22°03.2'	32°19.5'	N 20°54.0'
17	108°59.1'	N 1°46.6'	270°13.7'	S 4°59.9'	198°33.4'	S 22°03.2'	47°20.1'	N 20°54.4'
18	124°00.8'	N 1°46.4'	285°16.4'	S 4°59.8'	213°36.0'	S 22°03.2'	62°20.8'	N 20°54.8'
19	139°02.4'	N 1°46.2'	300°19.1'	S 4°59.7'	228°38.5'	S 22°03.2'	77°21.5'	N 20°55.2'
20	154°04.1'	N 1°46.0'	315°21.9'	S 4°59.6'	243°41.0'	S 22°03.2'	92°22.1'	N 20°55.6'
21	169°05.7'	N 1°45.8'	330°24.6'	S 4°59.5'	258°43.6'	S 22°03.2'	107°22.8'	N 20°55.9'
22	184°07.3'	N 1°45.6'	345°27.4'	S 4°59.4'	273°46.1'	S 22°03.2'	122°23.4'	N 20°56.3'
23	199°09.0'	N 1°45.4'	0°30.1'	S 4°59.3'	288°48.6'	S 22°03.2'	137°24.1'	N 20°56.7'

Sun Apr 23, 2017 UTC

UTC	Venus -4.5		Jupiter -2.3		Saturn +0.3		Mars +1.6	
	v = 1.6' d = 0.2'		v = 2.7' d = 0.1'		v = 2.5' d = 0.0'		v = 0.7' d = 0.4'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	214°10.6'	N 1°45.2'	15°32.8'	S 4°59.2'	303°51.2'	S 22°03.2'	152°24.7'	N 20°57.1'
1	229°12.2'	N 1°45.0'	30°35.6'	S 4°59.0'	318°53.7'	S 22°03.1'	167°25.4'	N 20°57.4'
2	244°13.8'	N 1°44.8'	45°38.3'	S 4°58.9'	333°56.2'	S 22°03.1'	182°26.1'	N 20°57.8'
3	259°15.5'	N 1°44.6'	60°41.1'	S 4°58.8'	348°58.8'	S 22°03.1'	197°26.7'	N 20°58.2'
4	274°17.1'	N 1°44.4'	75°43.8'	S 4°58.7'	4°01.3'	S 22°03.1'	212°27.4'	N 20°58.6'
5	289°18.7'	N 1°44.3'	90°46.6'	S 4°58.6'	19°03.9'	S 22°03.1'	227°28.0'	N 20°59.0'
6	304°20.3'	N 1°44.1'	105°49.3'	S 4°58.5'	34°06.4'	S 22°03.1'	242°28.7'	N 20°59.3'
7	319°21.9'	N 1°43.9'	120°52.0'	S 4°58.4'	49°08.9'	S 22°03.1'	257°29.4'	N 20°59.7'
8	334°23.5'	N 1°43.7'	135°54.8'	S 4°58.3'	64°11.5'	S 22°03.1'	272°30.0'	N 21°00.1'
9	349°25.1'	N 1°43.5'	150°57.5'	S 4°58.2'	79°14.0'	S 22°03.1'	287°30.7'	N 21°00.4'
10	4°26.7'	N 1°43.4'	166°00.3'	S 4°58.1'	94°16.5'	S 22°03.1'	302°31.3'	N 21°00.8'
11	19°28.3'	N 1°43.2'	181°03.0'	S 4°58.0'	109°19.1'	S 22°03.1'	317°32.0'	N 21°01.2'
12	34°29.9'	N 1°43.0'	196°05.7'	S 4°57.8'	124°21.6'	S 22°03.1'	332°32.6'	N 21°01.6'
13	49°31.5'	N 1°42.8'	211°08.5'	S 4°57.7'	139°24.2'	S 22°03.1'	347°33.3'	N 21°01.9'
14	64°33.1'	N 1°42.7'	226°11.2'	S 4°57.6'	154°26.7'	S 22°03.1'	2°34.0'	N 21°02.3'
15	79°34.6'	N 1°42.5'	241°13.9'	S 4°57.5'	169°29.2'	S 22°03.1'	17°34.6'	N 21°02.7'
16	94°36.2'	N 1°42.3'	256°16.7'	S 4°57.4'	184°31.8'	S 22°03.1'	32°35.3'	N 21°03.1'
17	109°37.8'	N 1°42.2'	271°19.4'	S 4°57.3'	199°34.3'	S 22°03.1'	47°35.9'	N 21°03.4'
18	124°39.4'	N 1°42.0'	286°22.2'	S 4°57.2'	214°36.9'	S 22°03.1'	62°36.6'	N 21°03.8'
19	139°41.0'	N 1°41.8'	301°24.9'	S 4°57.1'	229°39.4'	S 22°03.1'	77°37.2'	N 21°04.2'
20	154°42.5'	N 1°41.7'	316°27.6'	S 4°57.0'	244°41.9'	S 22°03.1'	92°37.9'	N 21°04.5'
21	169°44.1'	N 1°41.5'	331°30.4'	S 4°56.9'	259°44.5'	S 22°03.1'	107°38.5'	N 21°04.9'
22	184°45.7'	N 1°41.3'	346°33.1'	S 4°56.8'	274°47.0'	S 22°03.1'	122°39.2'	N 21°05.3'
23	199°47.2'	N 1°41.2'	1°35.9'	S 4°56.6'	289°49.6'	S 22°03.1'	137°39.9'	N 21°05.7'

Mon Apr 24, 2017 UTC

UTC	Venus -4.5		Jupiter -2.3		Saturn +0.3		Mars +1.6	
	v = 1.5' d = 0.1'		v = 2.7' d = 0.1'		v = 2.5' d = 0.0'		v = 0.7' d = 0.4'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	214°48.8'	N 1°41.0'	16°38.6'	S 4°56.5'	304°52.1'	S 22°03.1'	152°40.5'	N 21°06.0'
1	229°50.3'	N 1°40.9'	31°41.3'	S 4°56.4'	319°54.6'	S 22°03.1'	167°41.2'	N 21°06.4'
2	244°51.9'	N 1°40.7'	46°44.1'	S 4°56.3'	334°57.2'	S 22°03.1'	182°41.8'	N 21°06.8'
3	259°53.4'	N 1°40.6'	61°46.8'	S 4°56.2'	349°59.7'	S 22°03.1'	197°42.5'	N 21°07.1'
4	274°55.0'	N 1°40.4'	76°49.5'	S 4°56.1'	5°02.3'	S 22°03.1'	212°43.1'	N 21°07.5'
5	289°56.5'	N 1°40.3'	91°52.3'	S 4°56.0'	20°04.8'	S 22°03.1'	227°43.8'	N 21°07.9'
6	304°58.1'	N 1°40.1'	106°55.0'	S 4°55.9'	35°07.3'	S 22°03.1'	242°44.4'	N 21°08.2'
7	319°59.6'	N 1°40.0'	121°57.8'	S 4°55.8'	50°09.9'	S 22°03.1'	257°45.1'	N 21°08.6'
8	335°01.1'	N 1°39.9'	137°00.5'	S 4°55.7'	65°12.4'	S 22°03.0'	272°45.8'	N 21°09.0'
9	350°02.7'	N 1°39.7'	152°03.2'	S 4°55.6'	80°15.0'	S 22°03.0'	287°46.4'	N 21°09.3'
10	5°04.2'	N 1°39.6'	167°06.0'	S 4°55.5'	95°17.5'	S 22°03.0'	302°47.1'	N 21°09.7'
11	20°05.7'	N 1°39.4'	182°08.7'	S 4°55.4'	110°20.1'	S 22°03.0'	317°47.7'	N 21°10.1'
12	35°07.2'	N 1°39.3'	197°11.4'	S 4°55.2'	125°22.6'	S 22°03.0'	332°48.4'	N 21°10.4'
13	50°08.8'	N 1°39.2'	212°14.2'	S 4°55.1'	140°25.1'	S 22°03.0'	347°49.0'	N 21°10.8'
14	65°10.3'	N 1°39.1'	227°16.9'	S 4°55.0'	155°27.7'	S 22°03.0'	2°49.7'	N 21°11.2'
15	80°11.8'	N 1°38.9'	242°19.7'	S 4°54.9'	170°30.2'	S 22°03.0'	17°50.3'	N 21°11.5'
16	95°13.3'	N 1°38.8'	257°22.4'	S 4°54.8'	185°32.8'	S 22°03.0'	32°51.0'	N 21°11.9'
17	110°14.8'	N 1°38.7'	272°25.1'	S 4°54.7'	200°35.3'	S 22°03.0'	47°51.7'	N 21°12.2'
18	125°16.3'	N 1°38.5'	287°27.9'	S 4°54.6'	215°37.9'	S 22°03.0'	62°52.3'	N 21°12.6'
19	140°17.8'	N 1°38.4'	302°30.6'	S 4°54.5'	230°40.4'	S 22°03.0'	77°53.0'	N 21°13.0'
20	155°19.3'	N 1°38.3'	317°33.3'	S 4°54.4'	245°42.9'	S 22°03.0'	92°53.6'	N 21°13.3'
21	170°20.8'	N 1°38.2'	332°36.1'	S 4°54.3'	260°45.5'	S 22°03.0'	107°54.3'	N 21°13.7'
22	185°22.3'	N 1°38.1'	347°38.8'	S 4°54.2'	275°48.0'	S 22°03.0'	122°54.9'	N 21°14.1'
23	200°23.8'	N 1°37.9'	2°41.5'	S 4°54.1'	290°50.6'	S 22°03.0'	137°55.6'	N 21°14.4'

Tue Apr 25, 2017 UTC

UTC	Venus -4.5 v = 1.5' d = 0.1'		Jupiter -2.3 v = 2.7' d = 0.1'		Saturn +0.3 v = 2.5' d = 0.0'		Mars +1.6 v = 0.7' d = 0.4'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	215°25.3'	N 1°37.8'	17°44.3'	S 4°54.0'	305°53.1'	S 22°03.0'	152°56.2'	N 21°14.8'
1	230°26.8'	N 1°37.7'	32°47.0'	S 4°53.9'	320°55.7'	S 22°03.0'	167°56.9'	N 21°15.1'
2	245°28.3'	N 1°37.6'	47°49.7'	S 4°53.7'	335°58.2'	S 22°03.0'	182°57.5'	N 21°15.5'
3	260°29.8'	N 1°37.5'	62°52.5'	S 4°53.6'	351°00.8'	S 22°03.0'	197°58.2'	N 21°15.9'
4	275°31.2'	N 1°37.4'	77°55.2'	S 4°53.5'	6°03.3'	S 22°03.0'	212°58.9'	N 21°16.2'
5	290°32.7'	N 1°37.3'	92°57.9'	S 4°53.4'	21°05.9'	S 22°03.0'	227°59.5'	N 21°16.6'
6	305°34.2'	N 1°37.2'	108°00.7'	S 4°53.3'	36°08.4'	S 22°03.0'	243°00.2'	N 21°16.9'
7	320°35.7'	N 1°37.1'	123°03.4'	S 4°53.2'	51°10.9'	S 22°03.0'	258°00.8'	N 21°17.3'
8	335°37.1'	N 1°37.0'	138°06.1'	S 4°53.1'	66°13.5'	S 22°03.0'	273°01.5'	N 21°17.7'
9	350°38.6'	N 1°36.9'	153°08.9'	S 4°53.0'	81°16.0'	S 22°03.0'	288°02.1'	N 21°18.0'
10	5°40.1'	N 1°36.8'	168°11.6'	S 4°52.9'	96°18.6'	S 22°03.0'	303°02.8'	N 21°18.4'
11	20°41.5'	N 1°36.7'	183°14.4'	S 4°52.8'	111°21.1'	S 22°03.0'	318°03.4'	N 21°18.7'
12	35°43.0'	N 1°36.6'	198°17.1'	S 4°52.7'	126°23.7'	S 22°03.0'	333°04.1'	N 21°19.1'
13	50°44.4'	N 1°36.5'	213°19.8'	S 4°52.6'	141°26.2'	S 22°03.0'	348°04.7'	N 21°19.4'
14	65°45.9'	N 1°36.4'	228°22.6'	S 4°52.5'	156°28.8'	S 22°03.0'	3°05.4'	N 21°19.8'
15	80°47.3'	N 1°36.3'	243°25.3'	S 4°52.4'	171°31.3'	S 22°02.9'	18°06.0'	N 21°20.2'
16	95°48.8'	N 1°36.2'	258°28.0'	S 4°52.3'	186°33.9'	S 22°02.9'	33°06.7'	N 21°20.5'
17	110°50.2'	N 1°36.1'	273°30.7'	S 4°52.2'	201°36.4'	S 22°02.9'	48°07.3'	N 21°20.9'
18	125°51.7'	N 1°36.1'	288°33.5'	S 4°52.1'	216°39.0'	S 22°02.9'	63°08.0'	N 21°21.2'
19	140°53.1'	N 1°36.0'	303°36.2'	S 4°51.9'	231°41.5'	S 22°02.9'	78°08.7'	N 21°21.6'
20	155°54.5'	N 1°35.9'	318°38.9'	S 4°51.8'	246°44.1'	S 22°02.9'	93°09.3'	N 21°21.9'
21	170°56.0'	N 1°35.8'	333°41.7'	S 4°51.7'	261°46.6'	S 22°02.9'	108°10.0'	N 21°22.3'
22	185°57.4'	N 1°35.7'	348°44.4'	S 4°51.6'	276°49.2'	S 22°02.9'	123°10.6'	N 21°22.6'
23	200°58.8'	N 1°35.7'	3°47.1'	S 4°51.5'	291°51.7'	S 22°02.9'	138°11.3'	N 21°23.0'

Wed Apr 26, 2017 UTC

UTC	Venus -4.5 v = 1.4' d = 0.1'		Jupiter -2.3 v = 2.7' d = 0.1'		Saturn +0.3 v = 2.6' d = 0.0'		Mars +1.6 v = 0.7' d = 0.3'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	216°00.3'	N 1°35.6'	18°49.9'	S 4°51.4'	306°54.2'	S 22°02.9'	153°11.9'	N 21°23.3'
1	231°01.7'	N 1°35.5'	33°52.6'	S 4°51.3'	321°56.8'	S 22°02.9'	168°12.6'	N 21°23.7'
2	246°03.1'	N 1°35.4'	48°55.3'	S 4°51.2'	336°59.3'	S 22°02.9'	183°13.2'	N 21°24.0'
3	261°04.5'	N 1°35.4'	63°58.1'	S 4°51.1'	352°01.9'	S 22°02.9'	198°13.9'	N 21°24.4'
4	276°05.9'	N 1°35.3'	79°00.8'	S 4°51.0'	7°04.4'	S 22°02.9'	213°14.5'	N 21°24.7'
5	291°07.4'	N 1°35.2'	94°03.5'	S 4°50.9'	22°07.0'	S 22°02.9'	228°15.2'	N 21°25.1'
6	306°08.8'	N 1°35.2'	109°06.3'	S 4°50.8'	37°09.5'	S 22°02.9'	243°15.8'	N 21°25.5'
7	321°10.2'	N 1°35.1'	124°09.0'	S 4°50.7'	52°12.1'	S 22°02.9'	258°16.5'	N 21°25.8'
8	336°11.6'	N 1°35.0'	139°11.7'	S 4°50.6'	67°14.6'	S 22°02.9'	273°17.1'	N 21°26.2'
9	351°13.0'	N 1°35.0'	154°14.5'	S 4°50.5'	82°17.2'	S 22°02.9'	288°17.8'	N 21°26.5'
10	6°14.4'	N 1°34.9'	169°17.2'	S 4°50.4'	97°19.7'	S 22°02.9'	303°18.4'	N 21°26.9'
11	21°15.8'	N 1°34.9'	184°19.9'	S 4°50.3'	112°22.3'	S 22°02.9'	318°19.1'	N 21°27.2'
12	36°17.2'	N 1°34.8'	199°22.6'	S 4°50.2'	127°24.8'	S 22°02.9'	333°19.7'	N 21°27.5'
13	51°18.6'	N 1°34.7'	214°25.4'	S 4°50.1'	142°27.4'	S 22°02.9'	348°20.4'	N 21°27.9'
14	66°20.0'	N 1°34.7'	229°28.1'	S 4°50.0'	157°29.9'	S 22°02.9'	3°21.0'	N 21°28.2'
15	81°21.3'	N 1°34.6'	244°30.8'	S 4°49.9'	172°32.5'	S 22°02.9'	18°21.7'	N 21°28.6'
16	96°22.7'	N 1°34.6'	259°33.6'	S 4°49.8'	187°35.1'	S 22°02.9'	33°22.3'	N 21°28.9'
17	111°24.1'	N 1°34.5'	274°36.3'	S 4°49.6'	202°37.6'	S 22°02.9'	48°23.0'	N 21°29.3'
18	126°25.5'	N 1°34.5'	289°39.0'	S 4°49.5'	217°40.2'	S 22°02.9'	63°23.6'	N 21°29.6'
19	141°26.9'	N 1°34.5'	304°41.7'	S 4°49.4'	232°42.7'	S 22°02.9'	78°24.3'	N 21°30.0'
20	156°28.2'	N 1°34.4'	319°44.5'	S 4°49.3'	247°45.3'	S 22°02.9'	93°24.9'	N 21°30.3'
21	171°29.6'	N 1°34.4'	334°47.2'	S 4°49.2'	262°47.8'	S 22°02.9'	108°25.6'	N 21°30.7'
22	186°31.0'	N 1°34.3'	349°49.9'	S 4°49.1'	277°50.4'	S 22°02.8'	123°26.2'	N 21°31.0'
23	201°32.3'	N 1°34.3'	4°52.7'	S 4°49.0'	292°52.9'	S 22°02.8'	138°26.9'	N 21°31.4'

Thu Apr 27, 2017 UTC

UTC	Venus -4.5		Jupiter -2.3		Saturn +0.3		Mars +1.6	
	v = 1.3' d = 0.0'		v = 2.7' d = 0.1'		v = 2.6' d = 0.0'		v = 0.6' d = 0.3'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	216°33.7'	N 1°34.3'	19°55.4'	S 4°48.9'	307°55.5'	S 22°02.8'	153°27.6'	N 21°31.7'
1	231°35.1'	N 1°34.2'	34°58.1'	S 4°48.8'	322°58.0'	S 22°02.8'	168°28.2'	N 21°32.1'
2	246°36.4'	N 1°34.2'	50°00.8'	S 4°48.7'	338°00.6'	S 22°02.8'	183°28.9'	N 21°32.4'
3	261°37.8'	N 1°34.2'	65°03.6'	S 4°48.6'	353°03.1'	S 22°02.8'	198°29.5'	N 21°32.7'
4	276°39.1'	N 1°34.1'	80°06.3'	S 4°48.5'	8°05.7'	S 22°02.8'	213°30.2'	N 21°33.1'
5	291°40.5'	N 1°34.1'	95°09.0'	S 4°48.4'	23°08.2'	S 22°02.8'	228°30.8'	N 21°33.4'
6	306°41.8'	N 1°34.1'	110°11.8'	S 4°48.3'	38°10.8'	S 22°02.8'	243°31.5'	N 21°33.8'
7	321°43.2'	N 1°34.0'	125°14.5'	S 4°48.2'	53°13.3'	S 22°02.8'	258°32.1'	N 21°34.1'
8	336°44.5'	N 1°34.0'	140°17.2'	S 4°48.1'	68°15.9'	S 22°02.8'	273°32.8'	N 21°34.5'
9	351°45.9'	N 1°34.0'	155°19.9'	S 4°48.0'	83°18.5'	S 22°02.8'	288°33.4'	N 21°34.8'
10	6°47.2'	N 1°34.0'	170°22.7'	S 4°47.9'	98°21.0'	S 22°02.8'	303°34.1'	N 21°35.1'
11	21°48.5'	N 1°34.0'	185°25.4'	S 4°47.8'	113°23.6'	S 22°02.8'	318°34.7'	N 21°35.5'
12	36°49.9'	N 1°33.9'	200°28.1'	S 4°47.7'	128°26.1'	S 22°02.8'	333°35.4'	N 21°35.8'
13	51°51.2'	N 1°33.9'	215°30.8'	S 4°47.6'	143°28.7'	S 22°02.8'	348°36.0'	N 21°36.2'
14	66°52.5'	N 1°33.9'	230°33.6'	S 4°47.5'	158°31.2'	S 22°02.8'	3°36.7'	N 21°36.5'
15	81°53.9'	N 1°33.9'	245°36.3'	S 4°47.4'	173°33.8'	S 22°02.8'	18°37.3'	N 21°36.8'
16	96°55.2'	N 1°33.9'	260°39.0'	S 4°47.3'	188°36.3'	S 22°02.8'	33°38.0'	N 21°37.2'
17	111°56.5'	N 1°33.9'	275°41.7'	S 4°47.2'	203°38.9'	S 22°02.8'	48°38.6'	N 21°37.5'
18	126°57.8'	N 1°33.9'	290°44.5'	S 4°47.1'	218°41.4'	S 22°02.8'	63°39.3'	N 21°37.9'
19	141°59.1'	N 1°33.9'	305°47.2'	S 4°47.0'	233°44.0'	S 22°02.8'	78°39.9'	N 21°38.2'
20	157°00.5'	N 1°33.8'	320°49.9'	S 4°46.9'	248°46.6'	S 22°02.8'	93°40.6'	N 21°38.5'
21	172°01.8'	N 1°33.8'	335°52.6'	S 4°46.8'	263°49.1'	S 22°02.8'	108°41.2'	N 21°38.9'
22	187°03.1'	N 1°33.8'	350°55.4'	S 4°46.7'	278°51.7'	S 22°02.8'	123°41.8'	N 21°39.2'
23	202°04.4'	N 1°33.8'	5°58.1'	S 4°46.6'	293°54.2'	S 22°02.8'	138°42.5'	N 21°39.5'

Fri Apr 28, 2017 UTC

UTC	Venus -4.5		Jupiter -2.3		Saturn +0.3		Mars +1.6	
	v = 1.3' d = 0.0'		v = 2.7' d = 0.1'		v = 2.6' d = 0.0'		v = 0.6' d = 0.3'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	217°05.7'	N 1°33.8'	21°00.8'	S 4°46.5'	308°56.8'	S 22°02.8'	153°43.1'	N 21°39.9'
1	232°07.0'	N 1°33.8'	36°03.5'	S 4°46.4'	323°59.3'	S 22°02.8'	168°43.8'	N 21°40.2'
2	247°08.3'	N 1°33.8'	51°06.3'	S 4°46.3'	339°01.9'	S 22°02.8'	183°44.4'	N 21°40.6'
3	262°09.6'	N 1°33.8'	66°09.0'	S 4°46.2'	354°04.5'	S 22°02.8'	198°45.1'	N 21°40.9'
4	277°10.9'	N 1°33.9'	81°11.7'	S 4°46.1'	9°07.0'	S 22°02.7'	213°45.7'	N 21°41.2'
5	292°12.2'	N 1°33.9'	96°14.4'	S 4°46.0'	24°09.6'	S 22°02.7'	228°46.4'	N 21°41.6'
6	307°13.5'	N 1°33.9'	111°17.2'	S 4°45.9'	39°12.1'	S 22°02.7'	243°47.0'	N 21°41.9'
7	322°14.8'	N 1°33.9'	126°19.9'	S 4°45.8'	54°14.7'	S 22°02.7'	258°47.7'	N 21°42.2'
8	337°16.0'	N 1°33.9'	141°22.6'	S 4°45.7'	69°17.2'	S 22°02.7'	273°48.3'	N 21°42.6'
9	352°17.3'	N 1°33.9'	156°25.3'	S 4°45.6'	84°19.8'	S 22°02.7'	288°49.0'	N 21°42.9'
10	7°18.6'	N 1°33.9'	171°28.0'	S 4°45.4'	99°22.4'	S 22°02.7'	303°49.6'	N 21°43.2'
11	22°19.9'	N 1°33.9'	186°30.8'	S 4°45.3'	114°24.9'	S 22°02.7'	318°50.3'	N 21°43.6'
12	37°21.2'	N 1°34.0'	201°33.5'	S 4°45.2'	129°27.5'	S 22°02.7'	333°50.9'	N 21°43.9'
13	52°22.4'	N 1°34.0'	216°36.2'	S 4°45.1'	144°30.0'	S 22°02.7'	348°51.6'	N 21°44.2'
14	67°23.7'	N 1°34.0'	231°38.9'	S 4°45.0'	159°32.6'	S 22°02.7'	3°52.2'	N 21°44.6'
15	82°25.0'	N 1°34.0'	246°41.7'	S 4°44.9'	174°35.2'	S 22°02.7'	18°52.9'	N 21°44.9'
16	97°26.2'	N 1°34.1'	261°44.4'	S 4°44.8'	189°37.7'	S 22°02.7'	33°53.5'	N 21°45.2'
17	112°27.5'	N 1°34.1'	276°47.1'	S 4°44.7'	204°40.3'	S 22°02.7'	48°54.2'	N 21°45.6'
18	127°28.8'	N 1°34.1'	291°49.8'	S 4°44.6'	219°42.8'	S 22°02.7'	63°54.8'	N 21°45.9'
19	142°30.0'	N 1°34.1'	306°52.5'	S 4°44.5'	234°45.4'	S 22°02.7'	78°55.5'	N 21°46.2'
20	157°31.3'	N 1°34.2'	321°55.3'	S 4°44.4'	249°48.0'	S 22°02.7'	93°56.1'	N 21°46.5'
21	172°32.5'	N 1°34.2'	336°58.0'	S 4°44.3'	264°50.5'	S 22°02.7'	108°56.8'	N 21°46.9'
22	187°33.8'	N 1°34.2'	352°00.7'	S 4°44.2'	279°53.1'	S 22°02.7'	123°57.4'	N 21°47.2'
23	202°35.0'	N 1°34.3'	7°03.4'	S 4°44.1'	294°55.6'	S 22°02.7'	138°58.1'	N 21°47.5'

Sat Apr 29, 2017 UTC

UTC	Venus -4.5 v = 1.2' d = 0.1'		Jupiter -2.3 v = 2.7' d = 0.1'		Saturn +0.3 v = 2.6' d = 0.0'		Mars +1.6 v = 0.6' d = 0.3'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	217°36.3'	N 1°34.3'	22°06.1'	S 4°44.0'	309°58.2'	S 22°02.7'	153°58.7'	N 21°47.9'
1	232°37.5'	N 1°34.3'	37°08.9'	S 4°43.9'	325°00.8'	S 22°02.7'	168°59.4'	N 21°48.2'
2	247°38.8'	N 1°34.4'	52°11.6'	S 4°43.8'	340°03.3'	S 22°02.7'	183°60.0'	N 21°48.5'
3	262°40.0'	N 1°34.4'	67°14.3'	S 4°43.7'	355°05.9'	S 22°02.7'	199°00.6'	N 21°48.8'
4	277°41.2'	N 1°34.5'	82°17.0'	S 4°43.6'	10°08.4'	S 22°02.7'	214°01.3'	N 21°49.2'
5	292°42.5'	N 1°34.5'	97°19.7'	S 4°43.5'	25°11.0'	S 22°02.7'	229°01.9'	N 21°49.5'
6	307°43.7'	N 1°34.6'	112°22.5'	S 4°43.4'	40°13.6'	S 22°02.7'	244°02.6'	N 21°49.8'
7	322°44.9'	N 1°34.6'	127°25.2'	S 4°43.3'	55°16.1'	S 22°02.7'	259°03.2'	N 21°50.2'
8	337°46.2'	N 1°34.7'	142°27.9'	S 4°43.2'	70°18.7'	S 22°02.7'	274°03.9'	N 21°50.5'
9	352°47.4'	N 1°34.7'	157°30.6'	S 4°43.1'	85°21.2'	S 22°02.7'	289°04.5'	N 21°50.8'
10	7°48.6'	N 1°34.8'	172°33.3'	S 4°43.1'	100°23.8'	S 22°02.6'	304°05.2'	N 21°51.1'
11	22°49.8'	N 1°34.8'	187°36.1'	S 4°43.0'	115°26.4'	S 22°02.6'	319°05.8'	N 21°51.5'
12	37°51.1'	N 1°34.9'	202°38.8'	S 4°42.9'	130°28.9'	S 22°02.6'	334°06.5'	N 21°51.8'
13	52°52.3'	N 1°34.9'	217°41.5'	S 4°42.8'	145°31.5'	S 22°02.6'	349°07.1'	N 21°52.1'
14	67°53.5'	N 1°35.0'	232°44.2'	S 4°42.7'	160°34.1'	S 22°02.6'	4°07.8'	N 21°52.4'
15	82°54.7'	N 1°35.0'	247°46.9'	S 4°42.6'	175°36.6'	S 22°02.6'	19°08.4'	N 21°52.8'
16	97°55.9'	N 1°35.1'	262°49.7'	S 4°42.5'	190°39.2'	S 22°02.6'	34°09.1'	N 21°53.1'
17	112°57.1'	N 1°35.2'	277°52.4'	S 4°42.4'	205°41.7'	S 22°02.6'	49°09.7'	N 21°53.4'
18	127°58.3'	N 1°35.2'	292°55.1'	S 4°42.3'	220°44.3'	S 22°02.6'	64°10.3'	N 21°53.7'
19	142°59.5'	N 1°35.3'	307°57.8'	S 4°42.2'	235°46.9'	S 22°02.6'	79°11.0'	N 21°54.0'
20	158°00.7'	N 1°35.4'	323°00.5'	S 4°42.1'	250°49.4'	S 22°02.6'	94°11.6'	N 21°54.4'
21	173°01.9'	N 1°35.4'	338°03.2'	S 4°42.0'	265°52.0'	S 22°02.6'	109°12.3'	N 21°54.7'
22	188°03.1'	N 1°35.5'	353°06.0'	S 4°41.9'	280°54.6'	S 22°02.6'	124°12.9'	N 21°55.0'
23	203°04.3'	N 1°35.6'	8°08.7'	S 4°41.8'	295°57.1'	S 22°02.6'	139°13.6'	N 21°55.3'

Sun Apr 30, 2017 UTC

UTC	Venus -4.5 v = 1.2' d = 0.1'		Jupiter -2.3 v = 2.7' d = 0.1'		Saturn +0.3 v = 2.6' d = 0.0'		Mars +1.6 v = 0.6' d = 0.3'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	218°05.5'	N 1°35.6'	23°11.4'	S 4°41.7'	310°59.7'	S 22°02.6'	154°14.2'	N 21°55.6'
1	233°06.7'	N 1°35.7'	38°14.1'	S 4°41.6'	326°02.3'	S 22°02.6'	169°14.9'	N 21°56.0'
2	248°07.9'	N 1°35.8'	53°16.8'	S 4°41.5'	341°04.8'	S 22°02.6'	184°15.5'	N 21°56.3'
3	263°09.1'	N 1°35.9'	68°19.5'	S 4°41.4'	356°07.4'	S 22°02.6'	199°16.2'	N 21°56.6'
4	278°10.3'	N 1°35.9'	83°22.2'	S 4°41.3'	11°10.0'	S 22°02.6'	214°16.8'	N 21°56.9'
5	293°11.4'	N 1°36.0'	98°25.0'	S 4°41.2'	26°12.5'	S 22°02.6'	229°17.5'	N 21°57.2'
6	308°12.6'	N 1°36.1'	113°27.7'	S 4°41.1'	41°15.1'	S 22°02.6'	244°18.1'	N 21°57.6'
7	323°13.8'	N 1°36.2'	128°30.4'	S 4°41.0'	56°17.6'	S 22°02.6'	259°18.7'	N 21°57.9'
8	338°15.0'	N 1°36.3'	143°33.1'	S 4°40.9'	71°20.2'	S 22°02.6'	274°19.4'	N 21°58.2'
9	353°16.1'	N 1°36.4'	158°35.8'	S 4°40.8'	86°22.8'	S 22°02.6'	289°20.0'	N 21°58.5'
10	8°17.3'	N 1°36.4'	173°38.5'	S 4°40.7'	101°25.3'	S 22°02.6'	304°20.7'	N 21°58.8'
11	23°18.5'	N 1°36.5'	188°41.3'	S 4°40.6'	116°27.9'	S 22°02.6'	319°21.3'	N 21°59.2'
12	38°19.7'	N 1°36.6'	203°44.0'	S 4°40.5'	131°30.5'	S 22°02.6'	334°22.0'	N 21°59.5'
13	53°20.8'	N 1°36.7'	218°46.7'	S 4°40.4'	146°33.0'	S 22°02.6'	349°22.6'	N 21°59.8'
14	68°22.0'	N 1°36.8'	233°49.4'	S 4°40.3'	161°35.6'	S 22°02.6'	4°23.3'	N 22°00.1'
15	83°23.1'	N 1°36.9'	248°52.1'	S 4°40.2'	176°38.2'	S 22°02.5'	19°23.9'	N 22°00.4'
16	98°24.3'	N 1°37.0'	263°54.8'	S 4°40.1'	191°40.7'	S 22°02.5'	34°24.6'	N 22°00.7'
17	113°25.4'	N 1°37.1'	278°57.5'	S 4°40.0'	206°43.3'	S 22°02.5'	49°25.2'	N 22°01.0'
18	128°26.6'	N 1°37.2'	294°00.2'	S 4°39.9'	221°45.9'	S 22°02.5'	64°25.8'	N 22°01.4'
19	143°27.8'	N 1°37.3'	309°03.0'	S 4°39.8'	236°48.4'	S 22°02.5'	79°26.5'	N 22°01.7'
20	158°28.9'	N 1°37.4'	324°05.7'	S 4°39.7'	251°51.0'	S 22°02.5'	94°27.1'	N 22°02.0'
21	173°30.0'	N 1°37.5'	339°08.4'	S 4°39.6'	266°53.6'	S 22°02.5'	109°27.8'	N 22°02.3'
22	188°31.2'	N 1°37.6'	354°11.1'	S 4°39.5'	281°56.2'	S 22°02.5'	124°28.4'	N 22°02.6'
23	203°32.3'	N 1°37.7'	9°13.8'	S 4°39.4'	296°58.7'	S 22°02.5'	139°29.1'	N 22°02.9'