

Mon May 1, 2017 UTC

UTC	Venus -4.5 v = 1.1' d = 0.1'		Jupiter -2.3 v = 2.7' d = 0.1'		Saturn +0.2 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°33.5'	N 1°37.8'	24°16.5'	S 4°39.3'	312°01.3'	S 22°02.5'	154°29.7'	N 22°03.2'
1	233°34.6'	N 1°37.9'	39°19.2'	S 4°39.3'	327°03.9'	S 22°02.5'	169°30.4'	N 22°03.5'
2	248°35.7'	N 1°38.0'	54°21.9'	S 4°39.2'	342°06.4'	S 22°02.5'	184°31.0'	N 22°03.9'
3	263°36.9'	N 1°38.1'	69°24.7'	S 4°39.1'	357°09.0'	S 22°02.5'	199°31.6'	N 22°04.2'
4	278°38.0'	N 1°38.2'	84°27.4'	S 4°39.0'	12°11.6'	S 22°02.5'	214°32.3'	N 22°04.5'
5	293°39.1'	N 1°38.4'	99°30.1'	S 4°38.9'	27°14.1'	S 22°02.5'	229°32.9'	N 22°04.8'
6	308°40.3'	N 1°38.5'	114°32.8'	S 4°38.8'	42°16.7'	S 22°02.5'	244°33.6'	N 22°05.1'
7	323°41.4'	N 1°38.6'	129°35.5'	S 4°38.7'	57°19.3'	S 22°02.5'	259°34.2'	N 22°05.4'
8	338°42.5'	N 1°38.7'	144°38.2'	S 4°38.6'	72°21.8'	S 22°02.5'	274°34.9'	N 22°05.7'
9	353°43.6'	N 1°38.8'	159°40.9'	S 4°38.5'	87°24.4'	S 22°02.5'	289°35.5'	N 22°06.0'
10	8°44.8'	N 1°39.0'	174°43.6'	S 4°38.4'	102°27.0'	S 22°02.5'	304°36.2'	N 22°06.3'
11	23°45.9'	N 1°39.1'	189°46.3'	S 4°38.3'	117°29.5'	S 22°02.5'	319°36.8'	N 22°06.6'
12	38°47.0'	N 1°39.2'	204°49.1'	S 4°38.2'	132°32.1'	S 22°02.5'	334°37.4'	N 22°07.0'
13	53°48.1'	N 1°39.3'	219°51.8'	S 4°38.1'	147°34.7'	S 22°02.5'	349°38.1'	N 22°07.3'
14	68°49.2'	N 1°39.4'	234°54.5'	S 4°38.0'	162°37.3'	S 22°02.5'	4°38.7'	N 22°07.6'
15	83°50.3'	N 1°39.6'	249°57.2'	S 4°37.9'	177°39.8'	S 22°02.5'	19°39.4'	N 22°07.9'
16	98°51.4'	N 1°39.7'	264°59.9'	S 4°37.8'	192°42.4'	S 22°02.5'	34°40.0'	N 22°08.2'
17	113°52.5'	N 1°39.8'	280°02.6'	S 4°37.7'	207°45.0'	S 22°02.5'	49°40.7'	N 22°08.5'
18	128°53.6'	N 1°40.0'	295°05.3'	S 4°37.6'	222°47.5'	S 22°02.5'	64°41.3'	N 22°08.8'
19	143°54.7'	N 1°40.1'	310°08.0'	S 4°37.5'	237°50.1'	S 22°02.5'	79°41.9'	N 22°09.1'
20	158°55.8'	N 1°40.2'	325°10.7'	S 4°37.4'	252°52.7'	S 22°02.5'	94°42.6'	N 22°09.4'
21	173°56.9'	N 1°40.4'	340°13.4'	S 4°37.3'	267°55.3'	S 22°02.4'	109°43.2'	N 22°09.7'
22	188°58.0'	N 1°40.5'	355°16.1'	S 4°37.3'	282°57.8'	S 22°02.4'	124°43.9'	N 22°10.0'
23	203°59.1'	N 1°40.6'	10°18.8'	S 4°37.2'	298°00.4'	S 22°02.4'	139°44.5'	N 22°10.3'

Tue May 2, 2017 UTC

UTC	Venus -4.5 v = 1.1' d = 0.2'		Jupiter -2.3 v = 2.7' d = 0.1'		Saturn +0.2 v = 2.6' d = 0.0'		Mars +1.6 v = 0.6' d = 0.3'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	219°00.2'	N 1°40.8'	25°21.6'	S 4°37.1'	313°03.0'	S 22°02.4'	154°45.2'	N 22°10.6'
1	234°01.3'	N 1°40.9'	40°24.3'	S 4°37.0'	328°05.5'	S 22°02.4'	169°45.8'	N 22°10.9'
2	249°02.4'	N 1°41.1'	55°27.0'	S 4°36.9'	343°08.1'	S 22°02.4'	184°46.4'	N 22°11.2'
3	264°03.4'	N 1°41.2'	70°29.7'	S 4°36.8'	358°10.7'	S 22°02.4'	199°47.1'	N 22°11.5'
4	279°04.5'	N 1°41.4'	85°32.4'	S 4°36.7'	13°13.3'	S 22°02.4'	214°47.7'	N 22°11.8'
5	294°05.6'	N 1°41.5'	100°35.1'	S 4°36.6'	28°15.8'	S 22°02.4'	229°48.4'	N 22°12.1'
6	309°06.7'	N 1°41.7'	115°37.8'	S 4°36.5'	43°18.4'	S 22°02.4'	244°49.0'	N 22°12.4'
7	324°07.8'	N 1°41.8'	130°40.5'	S 4°36.4'	58°21.0'	S 22°02.4'	259°49.7'	N 22°12.7'
8	339°08.8'	N 1°42.0'	145°43.2'	S 4°36.3'	73°23.6'	S 22°02.4'	274°50.3'	N 22°13.0'
9	354°09.9'	N 1°42.1'	160°45.9'	S 4°36.2'	88°26.1'	S 22°02.4'	289°50.9'	N 22°13.3'
10	9°11.0'	N 1°42.3'	175°48.6'	S 4°36.1'	103°28.7'	S 22°02.4'	304°51.6'	N 22°13.6'
11	24°12.0'	N 1°42.4'	190°51.3'	S 4°36.0'	118°31.3'	S 22°02.4'	319°52.2'	N 22°13.9'
12	39°13.1'	N 1°42.6'	205°54.0'	S 4°35.9'	133°33.8'	S 22°02.4'	334°52.9'	N 22°14.2'
13	54°14.2'	N 1°42.7'	220°56.7'	S 4°35.9'	148°36.4'	S 22°02.4'	349°53.5'	N 22°14.5'
14	69°15.2'	N 1°42.9'	235°59.4'	S 4°35.8'	163°39.0'	S 22°02.4'	4°54.2'	N 22°14.8'
15	84°16.3'	N 1°43.1'	251°02.1'	S 4°35.7'	178°41.6'	S 22°02.4'	19°54.8'	N 22°15.1'
16	99°17.3'	N 1°43.2'	266°04.9'	S 4°35.6'	193°44.1'	S 22°02.4'	34°55.4'	N 22°15.4'
17	114°18.4'	N 1°43.4'	281°07.6'	S 4°35.5'	208°46.7'	S 22°02.4'	49°56.1'	N 22°15.7'
18	129°19.4'	N 1°43.5'	296°10.3'	S 4°35.4'	223°49.3'	S 22°02.4'	64°56.7'	N 22°16.0'
19	144°20.5'	N 1°43.7'	311°13.0'	S 4°35.3'	238°51.9'	S 22°02.4'	79°57.4'	N 22°16.3'
20	159°21.5'	N 1°43.9'	326°15.7'	S 4°35.2'	253°54.4'	S 22°02.4'	94°58.0'	N 22°16.6'
21	174°22.6'	N 1°44.0'	341°18.4'	S 4°35.1'	268°57.0'	S 22°02.4'	109°58.7'	N 22°16.9'
22	189°23.6'	N 1°44.2'	356°21.1'	S 4°35.0'	283°59.6'	S 22°02.4'	124°59.3'	N 22°17.2'
23	204°24.7'	N 1°44.4'	11°23.8'	S 4°34.9'	299°02.2'	S 22°02.4'	139°59.9'	N 22°17.5'

Wed May 3, 2017 UTC

UTC	Venus -4.5 v = 1.0' d = 0.2'		Jupiter -2.2 v = 2.7' d = 0.1'		Saturn +0.2 v = 2.6' d = 0.0'		Mars +1.6 v = 0.6' d = 0.3'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	219°25.7'	N 1°44.6'	26°26.5'	S 4°34.8'	314°04.7'	S 22°02.4'	155°00.6'	N 22°17.8'
1	234°26.8'	N 1°44.7'	41°29.2'	S 4°34.7'	329°07.3'	S 22°02.4'	170°01.2'	N 22°18.1'
2	249°27.8'	N 1°44.9'	56°31.9'	S 4°34.7'	344°09.9'	S 22°02.3'	185°01.9'	N 22°18.4'
3	264°28.8'	N 1°45.1'	71°34.6'	S 4°34.6'	359°12.5'	S 22°02.3'	200°02.5'	N 22°18.7'
4	279°29.9'	N 1°45.3'	86°37.3'	S 4°34.5'	14°15.0'	S 22°02.3'	215°03.2'	N 22°19.0'
5	294°30.9'	N 1°45.4'	101°40.0'	S 4°34.4'	29°17.6'	S 22°02.3'	230°03.8'	N 22°19.3'
6	309°31.9'	N 1°45.6'	116°42.7'	S 4°34.3'	44°20.2'	S 22°02.3'	245°04.4'	N 22°19.6'
7	324°33.0'	N 1°45.8'	131°45.4'	S 4°34.2'	59°22.8'	S 22°02.3'	260°05.1'	N 22°19.9'
8	339°34.0'	N 1°46.0'	146°48.1'	S 4°34.1'	74°25.4'	S 22°02.3'	275°05.7'	N 22°20.2'
9	354°35.0'	N 1°46.2'	161°50.8'	S 4°34.0'	89°27.9'	S 22°02.3'	290°06.4'	N 22°20.5'
10	9°36.0'	N 1°46.4'	176°53.5'	S 4°33.9'	104°30.5'	S 22°02.3'	305°07.0'	N 22°20.7'
11	24°37.0'	N 1°46.6'	191°56.2'	S 4°33.8'	119°33.1'	S 22°02.3'	320°07.6'	N 22°21.0'
12	39°38.1'	N 1°46.7'	206°58.9'	S 4°33.7'	134°35.7'	S 22°02.3'	335°08.3'	N 22°21.3'
13	54°39.1'	N 1°46.9'	222°01.6'	S 4°33.6'	149°38.2'	S 22°02.3'	350°08.9'	N 22°21.6'
14	69°40.1'	N 1°47.1'	237°04.3'	S 4°33.6'	164°40.8'	S 22°02.3'	5°09.6'	N 22°21.9'
15	84°41.1'	N 1°47.3'	252°07.0'	S 4°33.5'	179°43.4'	S 22°02.3'	20°10.2'	N 22°22.2'
16	99°42.1'	N 1°47.5'	267°09.7'	S 4°33.4'	194°46.0'	S 22°02.3'	35°10.8'	N 22°22.5'
17	114°43.1'	N 1°47.7'	282°12.4'	S 4°33.3'	209°48.6'	S 22°02.3'	50°11.5'	N 22°22.8'
18	129°44.1'	N 1°47.9'	297°15.1'	S 4°33.2'	224°51.1'	S 22°02.3'	65°12.1'	N 22°23.1'
19	144°45.1'	N 1°48.1'	312°17.8'	S 4°33.1'	239°53.7'	S 22°02.3'	80°12.8'	N 22°23.4'
20	159°46.1'	N 1°48.3'	327°20.5'	S 4°33.0'	254°56.3'	S 22°02.3'	95°13.4'	N 22°23.7'
21	174°47.1'	N 1°48.5'	342°23.2'	S 4°32.9'	269°58.9'	S 22°02.3'	110°14.1'	N 22°23.9'
22	189°48.1'	N 1°48.7'	357°25.9'	S 4°32.8'	285°01.4'	S 22°02.3'	125°14.7'	N 22°24.2'
23	204°49.1'	N 1°48.9'	12°28.6'	S 4°32.7'	300°04.0'	S 22°02.3'	140°15.3'	N 22°24.5'

Thu May 4, 2017 UTC

UTC	Venus -4.5 v = 1.0' d = 0.2'		Jupiter -2.2 v = 2.7' d = 0.1'		Saturn +0.2 v = 2.6' d = 0.0'		Mars +1.6 v = 0.6' d = 0.3'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	219°50.1'	N 1°49.1'	27°31.3'	S 4°32.7'	315°06.6'	S 22°02.3'	155°16.0'	N 22°24.8'
1	234°51.1'	N 1°49.3'	42°34.0'	S 4°32.6'	330°09.2'	S 22°02.3'	170°16.6'	N 22°25.1'
2	249°52.1'	N 1°49.5'	57°36.7'	S 4°32.5'	345°11.8'	S 22°02.3'	185°17.3'	N 22°25.4'
3	264°53.1'	N 1°49.7'	72°39.4'	S 4°32.4'	0°14.3'	S 22°02.3'	200°17.9'	N 22°25.7'
4	279°54.1'	N 1°49.9'	87°42.1'	S 4°32.3'	15°16.9'	S 22°02.3'	215°18.5'	N 22°25.9'
5	294°55.1'	N 1°50.1'	102°44.8'	S 4°32.2'	30°19.5'	S 22°02.3'	230°19.2'	N 22°26.2'
6	309°56.0'	N 1°50.4'	117°47.5'	S 4°32.1'	45°22.1'	S 22°02.3'	245°19.8'	N 22°26.5'
7	324°57.0'	N 1°50.6'	132°50.2'	S 4°32.0'	60°24.7'	S 22°02.2'	260°20.5'	N 22°26.8'
8	339°58.0'	N 1°50.8'	147°52.9'	S 4°31.9'	75°27.2'	S 22°02.2'	275°21.1'	N 22°27.1'
9	354°59.0'	N 1°51.0'	162°55.6'	S 4°31.9'	90°29.8'	S 22°02.2'	290°21.7'	N 22°27.4'
10	9°60.0'	N 1°51.2'	177°58.3'	S 4°31.8'	105°32.4'	S 22°02.2'	305°22.4'	N 22°27.7'
11	25°00.9'	N 1°51.4'	193°01.0'	S 4°31.7'	120°35.0'	S 22°02.2'	320°23.0'	N 22°27.9'
12	40°01.9'	N 1°51.7'	208°03.7'	S 4°31.6'	135°37.6'	S 22°02.2'	335°23.7'	N 22°28.2'
13	55°02.9'	N 1°51.9'	223°06.4'	S 4°31.5'	150°40.1'	S 22°02.2'	350°24.3'	N 22°28.5'
14	70°03.8'	N 1°52.1'	238°09.1'	S 4°31.4'	165°42.7'	S 22°02.2'	5°24.9'	N 22°28.8'
15	85°04.8'	N 1°52.3'	253°11.7'	S 4°31.3'	180°45.3'	S 22°02.2'	20°25.6'	N 22°29.1'
16	100°05.8'	N 1°52.6'	268°14.4'	S 4°31.2'	195°47.9'	S 22°02.2'	35°26.2'	N 22°29.3'
17	115°06.7'	N 1°52.8'	283°17.1'	S 4°31.1'	210°50.5'	S 22°02.2'	50°26.9'	N 22°29.6'
18	130°07.7'	N 1°53.0'	298°19.8'	S 4°31.1'	225°53.1'	S 22°02.2'	65°27.5'	N 22°29.9'
19	145°08.6'	N 1°53.2'	313°22.5'	S 4°31.0'	240°55.6'	S 22°02.2'	80°28.1'	N 22°30.2'
20	160°09.6'	N 1°53.5'	328°25.2'	S 4°30.9'	255°58.2'	S 22°02.2'	95°28.8'	N 22°30.5'
21	175°10.6'	N 1°53.7'	343°27.9'	S 4°30.8'	271°00.8'	S 22°02.2'	110°29.4'	N 22°30.7'
22	190°11.5'	N 1°53.9'	358°30.6'	S 4°30.7'	286°03.4'	S 22°02.2'	125°30.1'	N 22°31.0'
23	205°12.5'	N 1°54.2'	13°33.3'	S 4°30.6'	301°06.0'	S 22°02.2'	140°30.7'	N 22°31.3'

Fri May 5, 2017 UTC

UTC	Venus -4.5		Jupiter -2.2		Saturn +0.2		Mars +1.6	
	v = 0.9' d = 0.3'		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	220°13.4'	N 1°54.4'	28°36.0'	S 4°30.5'	316°08.5'	S 22°02.2'	155°31.3'	N 22°31.6'
1	235°14.4'	N 1°54.6'	43°38.7'	S 4°30.4'	331°11.1'	S 22°02.2'	170°32.0'	N 22°31.9'
2	250°15.3'	N 1°54.9'	58°41.4'	S 4°30.4'	346°13.7'	S 22°02.2'	185°32.6'	N 22°32.1'
3	265°16.3'	N 1°55.1'	73°44.1'	S 4°30.3'	1°16.3'	S 22°02.2'	200°33.3'	N 22°32.4'
4	280°17.2'	N 1°55.4'	88°46.8'	S 4°30.2'	16°18.9'	S 22°02.2'	215°33.9'	N 22°32.7'
5	295°18.1'	N 1°55.6'	103°49.5'	S 4°30.1'	31°21.5'	S 22°02.2'	230°34.5'	N 22°33.0'
6	310°19.1'	N 1°55.8'	118°52.2'	S 4°30.0'	46°24.0'	S 22°02.2'	245°35.2'	N 22°33.3'
7	325°20.0'	N 1°56.1'	133°54.8'	S 4°29.9'	61°26.6'	S 22°02.2'	260°35.8'	N 22°33.5'
8	340°20.9'	N 1°56.3'	148°57.5'	S 4°29.8'	76°29.2'	S 22°02.2'	275°36.5'	N 22°33.8'
9	355°21.9'	N 1°56.6'	164°00.2'	S 4°29.7'	91°31.8'	S 22°02.2'	290°37.1'	N 22°34.1'
10	10°22.8'	N 1°56.8'	179°02.9'	S 4°29.7'	106°34.4'	S 22°02.2'	305°37.7'	N 22°34.4'
11	25°23.7'	N 1°57.1'	194°05.6'	S 4°29.6'	121°37.0'	S 22°02.2'	320°38.4'	N 22°34.6'
12	40°24.7'	N 1°57.3'	209°08.3'	S 4°29.5'	136°39.6'	S 22°02.1'	335°39.0'	N 22°34.9'
13	55°25.6'	N 1°57.6'	224°11.0'	S 4°29.4'	151°42.1'	S 22°02.1'	350°39.7'	N 22°35.2'
14	70°26.5'	N 1°57.8'	239°13.7'	S 4°29.3'	166°44.7'	S 22°02.1'	5°40.3'	N 22°35.5'
15	85°27.4'	N 1°58.1'	254°16.4'	S 4°29.2'	181°47.3'	S 22°02.1'	20°40.9'	N 22°35.7'
16	100°28.4'	N 1°58.3'	269°19.1'	S 4°29.1'	196°49.9'	S 22°02.1'	35°41.6'	N 22°36.0'
17	115°29.3'	N 1°58.6'	284°21.8'	S 4°29.1'	211°52.5'	S 22°02.1'	50°42.2'	N 22°36.3'
18	130°30.2'	N 1°58.8'	299°24.4'	S 4°29.0'	226°55.1'	S 22°02.1'	65°42.8'	N 22°36.5'
19	145°31.1'	N 1°59.1'	314°27.1'	S 4°28.9'	241°57.7'	S 22°02.1'	80°43.5'	N 22°36.8'
20	160°32.0'	N 1°59.4'	329°29.8'	S 4°28.8'	257°00.2'	S 22°02.1'	95°44.1'	N 22°37.1'
21	175°32.9'	N 1°59.6'	344°32.5'	S 4°28.7'	272°02.8'	S 22°02.1'	110°44.8'	N 22°37.4'
22	190°33.8'	N 1°59.9'	359°35.2'	S 4°28.6'	287°05.4'	S 22°02.1'	125°45.4'	N 22°37.6'
23	205°34.8'	N 2°00.1'	14°37.9'	S 4°28.5'	302°08.0'	S 22°02.1'	140°46.0'	N 22°37.9'

Sat May 6, 2017 UTC

UTC	Venus -4.4		Jupiter -2.2		Saturn +0.2		Mars +1.6	
	v = 0.9' d = 0.3'		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	220°35.7'	N 2°00.4'	29°40.6'	S 4°28.5'	317°10.6'	S 22°02.1'	155°46.7'	N 22°38.2'
1	235°36.6'	N 2°00.7'	44°43.3'	S 4°28.4'	332°13.2'	S 22°02.1'	170°47.3'	N 22°38.4'
2	250°37.5'	N 2°00.9'	59°46.0'	S 4°28.3'	347°15.8'	S 22°02.1'	185°48.0'	N 22°38.7'
3	265°38.4'	N 2°01.2'	74°48.6'	S 4°28.2'	2°18.3'	S 22°02.1'	200°48.6'	N 22°39.0'
4	280°39.3'	N 2°01.5'	89°51.3'	S 4°28.1'	17°20.9'	S 22°02.1'	215°49.2'	N 22°39.2'
5	295°40.2'	N 2°01.8'	104°54.0'	S 4°28.0'	32°23.5'	S 22°02.1'	230°49.9'	N 22°39.5'
6	310°41.1'	N 2°02.0'	119°56.7'	S 4°27.9'	47°26.1'	S 22°02.1'	245°50.5'	N 22°39.8'
7	325°42.0'	N 2°02.3'	134°59.4'	S 4°27.9'	62°28.7'	S 22°02.1'	260°51.1'	N 22°40.1'
8	340°42.8'	N 2°02.6'	150°02.1'	S 4°27.8'	77°31.3'	S 22°02.1'	275°51.8'	N 22°40.3'
9	355°43.7'	N 2°02.8'	165°04.8'	S 4°27.7'	92°33.9'	S 22°02.1'	290°52.4'	N 22°40.6'
10	10°44.6'	N 2°03.1'	180°07.5'	S 4°27.6'	107°36.5'	S 22°02.1'	305°53.1'	N 22°40.9'
11	25°45.5'	N 2°03.4'	195°10.1'	S 4°27.5'	122°39.0'	S 22°02.1'	320°53.7'	N 22°41.1'
12	40°46.4'	N 2°03.7'	210°12.8'	S 4°27.4'	137°41.6'	S 22°02.1'	335°54.3'	N 22°41.4'
13	55°47.3'	N 2°04.0'	225°15.5'	S 4°27.3'	152°44.2'	S 22°02.1'	350°55.0'	N 22°41.7'
14	70°48.2'	N 2°04.2'	240°18.2'	S 4°27.3'	167°46.8'	S 22°02.1'	5°55.6'	N 22°41.9'
15	85°49.0'	N 2°04.5'	255°20.9'	S 4°27.2'	182°49.4'	S 22°02.1'	20°56.3'	N 22°42.2'
16	100°49.9'	N 2°04.8'	270°23.6'	S 4°27.1'	197°52.0'	S 22°02.0'	35°56.9'	N 22°42.4'
17	115°50.8'	N 2°05.1'	285°26.3'	S 4°27.0'	212°54.6'	S 22°02.0'	50°57.5'	N 22°42.7'
18	130°51.7'	N 2°05.4'	300°28.9'	S 4°26.9'	227°57.2'	S 22°02.0'	65°58.2'	N 22°43.0'
19	145°52.6'	N 2°05.7'	315°31.6'	S 4°26.8'	242°59.7'	S 22°02.0'	80°58.8'	N 22°43.2'
20	160°53.4'	N 2°06.0'	330°34.3'	S 4°26.8'	258°02.3'	S 22°02.0'	95°59.4'	N 22°43.5'
21	175°54.3'	N 2°06.2'	345°37.0'	S 4°26.7'	273°04.9'	S 22°02.0'	111°00.1'	N 22°43.8'
22	190°55.2'	N 2°06.5'	0°39.7'	S 4°26.6'	288°07.5'	S 22°02.0'	126°00.7'	N 22°44.0'
23	205°56.0'	N 2°06.8'	15°42.4'	S 4°26.5'	303°10.1'	S 22°02.0'	141°01.4'	N 22°44.3'

Sun May 7, 2017 UTC

UTC	Venus -4.4 v = 0.8' d = 0.3'		Jupiter -2.2 v = 2.7' d = 0.1'		Saturn +0.2 v = 2.6' d = 0.0'		Mars +1.6 v = 0.6' d = 0.3'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	220°56.9'	N 2°07.1'	30°45.0'	S 4°26.4'	318°12.7'	S 22°02.0'	156°02.0'	N 22°44.6'
1	235°57.8'	N 2°07.4'	45°47.7'	S 4°26.3'	333°15.3'	S 22°02.0'	171°02.6'	N 22°44.8'
2	250°58.6'	N 2°07.7'	60°50.4'	S 4°26.3'	348°17.9'	S 22°02.0'	186°03.3'	N 22°45.1'
3	265°59.5'	N 2°08.0'	75°53.1'	S 4°26.2'	3°20.5'	S 22°02.0'	201°03.9'	N 22°45.3'
4	281°00.3'	N 2°08.3'	90°55.8'	S 4°26.1'	18°23.1'	S 22°02.0'	216°04.5'	N 22°45.6'
5	296°01.2'	N 2°08.6'	105°58.5'	S 4°26.0'	33°25.6'	S 22°02.0'	231°05.2'	N 22°45.9'
6	311°02.1'	N 2°08.9'	121°01.1'	S 4°25.9'	48°28.2'	S 22°02.0'	246°05.8'	N 22°46.1'
7	326°02.9'	N 2°09.2'	136°03.8'	S 4°25.8'	63°30.8'	S 22°02.0'	261°06.5'	N 22°46.4'
8	341°03.8'	N 2°09.5'	151°06.5'	S 4°25.8'	78°33.4'	S 22°02.0'	276°07.1'	N 22°46.6'
9	356°04.6'	N 2°09.8'	166°09.2'	S 4°25.7'	93°36.0'	S 22°02.0'	291°07.7'	N 22°46.9'
10	11°05.5'	N 2°10.1'	181°11.9'	S 4°25.6'	108°38.6'	S 22°02.0'	306°08.4'	N 22°47.1'
11	26°06.3'	N 2°10.4'	196°14.6'	S 4°25.5'	123°41.2'	S 22°02.0'	321°09.0'	N 22°47.4'
12	41°07.1'	N 2°10.7'	211°17.2'	S 4°25.4'	138°43.8'	S 22°02.0'	336°09.6'	N 22°47.7'
13	56°08.0'	N 2°11.0'	226°19.9'	S 4°25.4'	153°46.4'	S 22°02.0'	351°10.3'	N 22°47.9'
14	71°08.8'	N 2°11.4'	241°22.6'	S 4°25.3'	168°49.0'	S 22°02.0'	6°10.9'	N 22°48.2'
15	86°09.7'	N 2°11.7'	256°25.3'	S 4°25.2'	183°51.6'	S 22°02.0'	21°11.6'	N 22°48.4'
16	101°10.5'	N 2°12.0'	271°28.0'	S 4°25.1'	198°54.1'	S 22°02.0'	36°12.2'	N 22°48.7'
17	116°11.3'	N 2°12.3'	286°30.6'	S 4°25.0'	213°56.7'	S 22°02.0'	51°12.8'	N 22°48.9'
18	131°12.2'	N 2°12.6'	301°33.3'	S 4°24.9'	228°59.3'	S 22°02.0'	66°13.5'	N 22°49.2'
19	146°13.0'	N 2°12.9'	316°36.0'	S 4°24.9'	244°01.9'	S 22°02.0'	81°14.1'	N 22°49.5'
20	161°13.8'	N 2°13.2'	331°38.7'	S 4°24.8'	259°04.5'	S 22°01.9'	96°14.7'	N 22°49.7'
21	176°14.7'	N 2°13.6'	346°41.4'	S 4°24.7'	274°07.1'	S 22°01.9'	111°15.4'	N 22°50.0'
22	191°15.5'	N 2°13.9'	1°44.0'	S 4°24.6'	289°09.7'	S 22°01.9'	126°16.0'	N 22°50.2'
23	206°16.3'	N 2°14.2'	16°46.7'	S 4°24.5'	304°12.3'	S 22°01.9'	141°16.6'	N 22°50.5'

Mon May 8, 2017 UTC

UTC	Venus -4.4 v = 0.8' d = 0.3'		Jupiter -2.2 v = 2.7' d = 0.1'		Saturn +0.2 v = 2.6' d = 0.0'		Mars +1.6 v = 0.6' d = 0.2'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	221°17.2'	N 2°14.5'	31°49.4'	S 4°24.5'	319°14.9'	S 22°01.9'	156°17.3'	N 22°50.7'
1	236°18.0'	N 2°14.8'	46°52.1'	S 4°24.4'	334°17.5'	S 22°01.9'	171°17.9'	N 22°51.0'
2	251°18.8'	N 2°15.2'	61°54.7'	S 4°24.3'	349°20.1'	S 22°01.9'	186°18.6'	N 22°51.2'
3	266°19.6'	N 2°15.5'	76°57.4'	S 4°24.2'	4°22.7'	S 22°01.9'	201°19.2'	N 22°51.5'
4	281°20.4'	N 2°15.8'	92°00.1'	S 4°24.1'	19°25.3'	S 22°01.9'	216°19.8'	N 22°51.7'
5	296°21.3'	N 2°16.1'	107°02.8'	S 4°24.1'	34°27.9'	S 22°01.9'	231°20.5'	N 22°52.0'
6	311°22.1'	N 2°16.5'	122°05.5'	S 4°24.0'	49°30.5'	S 22°01.9'	246°21.1'	N 22°52.2'
7	326°22.9'	N 2°16.8'	137°08.1'	S 4°23.9'	64°33.0'	S 22°01.9'	261°21.7'	N 22°52.5'
8	341°23.7'	N 2°17.1'	152°10.8'	S 4°23.8'	79°35.6'	S 22°01.9'	276°22.4'	N 22°52.7'
9	356°24.5'	N 2°17.5'	167°13.5'	S 4°23.7'	94°38.2'	S 22°01.9'	291°23.0'	N 22°53.0'
10	11°25.3'	N 2°17.8'	182°16.2'	S 4°23.7'	109°40.8'	S 22°01.9'	306°23.6'	N 22°53.2'
11	26°26.1'	N 2°18.1'	197°18.8'	S 4°23.6'	124°43.4'	S 22°01.9'	321°24.3'	N 22°53.5'
12	41°26.9'	N 2°18.5'	212°21.5'	S 4°23.5'	139°46.0'	S 22°01.9'	336°24.9'	N 22°53.7'
13	56°27.7'	N 2°18.8'	227°24.2'	S 4°23.4'	154°48.6'	S 22°01.9'	351°25.6'	N 22°54.0'
14	71°28.5'	N 2°19.1'	242°26.9'	S 4°23.3'	169°51.2'	S 22°01.9'	6°26.2'	N 22°54.2'
15	86°29.3'	N 2°19.5'	257°29.5'	S 4°23.3'	184°53.8'	S 22°01.9'	21°26.8'	N 22°54.5'
16	101°30.1'	N 2°19.8'	272°32.2'	S 4°23.2'	199°56.4'	S 22°01.9'	36°27.5'	N 22°54.7'
17	116°30.9'	N 2°20.1'	287°34.9'	S 4°23.1'	214°59.0'	S 22°01.9'	51°28.1'	N 22°55.0'
18	131°31.7'	N 2°20.5'	302°37.6'	S 4°23.0'	230°01.6'	S 22°01.9'	66°28.7'	N 22°55.2'
19	146°32.5'	N 2°20.8'	317°40.2'	S 4°22.9'	245°04.2'	S 22°01.9'	81°29.4'	N 22°55.5'
20	161°33.3'	N 2°21.2'	332°42.9'	S 4°22.9'	260°06.8'	S 22°01.9'	96°30.0'	N 22°55.7'
21	176°34.1'	N 2°21.5'	347°45.6'	S 4°22.8'	275°09.4'	S 22°01.9'	111°30.6'	N 22°56.0'
22	191°34.9'	N 2°21.9'	2°48.3'	S 4°22.7'	290°12.0'	S 22°01.9'	126°31.3'	N 22°56.2'
23	206°35.7'	N 2°22.2'	17°50.9'	S 4°22.6'	305°14.6'	S 22°01.9'	141°31.9'	N 22°56.5'

Tue May 9, 2017 UTC

UTC	Venus -4.4 v = 0.8' d = 0.4'		Jupiter -2.2 v = 2.7' d = 0.1'		Saturn +0.2 v = 2.6' d = 0.0'		Mars +1.6 v = 0.6' d = 0.2'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	221°36.5'	N 2°22.6'	32°53.6'	S 4°22.5'	320°17.2'	S 22°01.8'	156°32.6'	N 22°56.7'
1	236°37.3'	N 2°22.9'	47°56.3'	S 4°22.5'	335°19.8'	S 22°01.8'	171°33.2'	N 22°56.9'
2	251°38.1'	N 2°23.3'	62°58.9'	S 4°22.4'	350°22.4'	S 22°01.8'	186°33.8'	N 22°57.2'
3	266°38.8'	N 2°23.6'	78°01.6'	S 4°22.3'	5°25.0'	S 22°01.8'	201°34.5'	N 22°57.4'
4	281°39.6'	N 2°24.0'	93°04.3'	S 4°22.2'	20°27.6'	S 22°01.8'	216°35.1'	N 22°57.7'
5	296°40.4'	N 2°24.3'	108°07.0'	S 4°22.2'	35°30.2'	S 22°01.8'	231°35.7'	N 22°57.9'
6	311°41.2'	N 2°24.7'	123°09.6'	S 4°22.1'	50°32.7'	S 22°01.8'	246°36.4'	N 22°58.2'
7	326°42.0'	N 2°25.0'	138°12.3'	S 4°22.0'	65°35.3'	S 22°01.8'	261°37.0'	N 22°58.4'
8	341°42.7'	N 2°25.4'	153°15.0'	S 4°21.9'	80°37.9'	S 22°01.8'	276°37.6'	N 22°58.6'
9	356°43.5'	N 2°25.7'	168°17.6'	S 4°21.8'	95°40.5'	S 22°01.8'	291°38.3'	N 22°58.9'
10	11°44.3'	N 2°26.1'	183°20.3'	S 4°21.8'	110°43.1'	S 22°01.8'	306°38.9'	N 22°59.1'
11	26°45.0'	N 2°26.5'	198°23.0'	S 4°21.7'	125°45.7'	S 22°01.8'	321°39.5'	N 22°59.4'
12	41°45.8'	N 2°26.8'	213°25.7'	S 4°21.6'	140°48.3'	S 22°01.8'	336°40.2'	N 22°59.6'
13	56°46.6'	N 2°27.2'	228°28.3'	S 4°21.5'	155°50.9'	S 22°01.8'	351°40.8'	N 22°59.8'
14	71°47.3'	N 2°27.5'	243°31.0'	S 4°21.5'	170°53.5'	S 22°01.8'	6°41.5'	N 23°00.1'
15	86°48.1'	N 2°27.9'	258°33.7'	S 4°21.4'	185°56.1'	S 22°01.8'	21°42.1'	N 23°00.3'
16	101°48.9'	N 2°28.3'	273°36.3'	S 4°21.3'	200°58.7'	S 22°01.8'	36°42.7'	N 23°00.6'
17	116°49.6'	N 2°28.6'	288°39.0'	S 4°21.2'	216°01.3'	S 22°01.8'	51°43.4'	N 23°00.8'
18	131°50.4'	N 2°29.0'	303°41.7'	S 4°21.2'	231°03.9'	S 22°01.8'	66°44.0'	N 23°01.0'
19	146°51.2'	N 2°29.4'	318°44.3'	S 4°21.1'	246°06.5'	S 22°01.8'	81°44.6'	N 23°01.3'
20	161°51.9'	N 2°29.7'	333°47.0'	S 4°21.0'	261°09.1'	S 22°01.8'	96°45.3'	N 23°01.5'
21	176°52.7'	N 2°30.1'	348°49.7'	S 4°20.9'	276°11.7'	S 22°01.8'	111°45.9'	N 23°01.8'
22	191°53.4'	N 2°30.5'	3°52.4'	S 4°20.8'	291°14.3'	S 22°01.8'	126°46.5'	N 23°02.0'
23	206°54.2'	N 2°30.9'	18°55.0'	S 4°20.8'	306°16.9'	S 22°01.8'	141°47.2'	N 23°02.2'

Wed May 10, 2017 UTC

UTC	Venus -4.4 v = 0.7' d = 0.4'		Jupiter -2.2 v = 2.7' d = 0.1'		Saturn +0.2 v = 2.6' d = 0.0'		Mars +1.6 v = 0.6' d = 0.2'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	221°54.9'	N 2°31.2'	33°57.7'	S 4°20.7'	321°19.5'	S 22°01.8'	156°47.8'	N 23°02.5'
1	236°55.7'	N 2°31.6'	49°00.4'	S 4°20.6'	336°22.1'	S 22°01.8'	171°48.4'	N 23°02.7'
2	251°56.4'	N 2°32.0'	64°03.0'	S 4°20.5'	351°24.7'	S 22°01.8'	186°49.1'	N 23°02.9'
3	266°57.2'	N 2°32.4'	79°05.7'	S 4°20.5'	6°27.3'	S 22°01.8'	201°49.7'	N 23°03.2'
4	281°57.9'	N 2°32.7'	94°08.4'	S 4°20.4'	21°29.9'	S 22°01.7'	216°50.3'	N 23°03.4'
5	296°58.6'	N 2°33.1'	109°11.0'	S 4°20.3'	36°32.5'	S 22°01.7'	231°51.0'	N 23°03.6'
6	311°59.4'	N 2°33.5'	124°13.7'	S 4°20.2'	51°35.1'	S 22°01.7'	246°51.6'	N 23°03.9'
7	327°00.1'	N 2°33.9'	139°16.4'	S 4°20.2'	66°37.7'	S 22°01.7'	261°52.2'	N 23°04.1'
8	342°00.9'	N 2°34.3'	154°19.0'	S 4°20.1'	81°40.3'	S 22°01.7'	276°52.9'	N 23°04.3'
9	357°01.6'	N 2°34.6'	169°21.7'	S 4°20.0'	96°42.9'	S 22°01.7'	291°53.5'	N 23°04.6'
10	12°02.3'	N 2°35.0'	184°24.4'	S 4°19.9'	111°45.5'	S 22°01.7'	306°54.1'	N 23°04.8'
11	27°03.1'	N 2°35.4'	199°27.0'	S 4°19.9'	126°48.1'	S 22°01.7'	321°54.8'	N 23°05.0'
12	42°03.8'	N 2°35.8'	214°29.7'	S 4°19.8'	141°50.7'	S 22°01.7'	336°55.4'	N 23°05.3'
13	57°04.5'	N 2°36.2'	229°32.3'	S 4°19.7'	156°53.3'	S 22°01.7'	351°56.1'	N 23°05.5'
14	72°05.3'	N 2°36.6'	244°35.0'	S 4°19.6'	171°55.9'	S 22°01.7'	6°56.7'	N 23°05.7'
15	87°06.0'	N 2°37.0'	259°37.7'	S 4°19.6'	186°58.5'	S 22°01.7'	21°57.3'	N 23°06.0'
16	102°06.7'	N 2°37.4'	274°40.3'	S 4°19.5'	202°01.1'	S 22°01.7'	36°58.0'	N 23°06.2'
17	117°07.4'	N 2°37.8'	289°43.0'	S 4°19.4'	217°03.7'	S 22°01.7'	51°58.6'	N 23°06.4'
18	132°08.2'	N 2°38.1'	304°45.7'	S 4°19.3'	232°06.3'	S 22°01.7'	66°59.2'	N 23°06.7'
19	147°08.9'	N 2°38.5'	319°48.3'	S 4°19.3'	247°08.9'	S 22°01.7'	81°59.9'	N 23°06.9'
20	162°09.6'	N 2°38.9'	334°51.0'	S 4°19.2'	262°11.5'	S 22°01.7'	97°00.5'	N 23°07.1'
21	177°10.3'	N 2°39.3'	349°53.7'	S 4°19.1'	277°14.1'	S 22°01.7'	112°01.1'	N 23°07.3'
22	192°11.1'	N 2°39.7'	4°56.3'	S 4°19.0'	292°16.7'	S 22°01.7'	127°01.8'	N 23°07.6'
23	207°11.8'	N 2°40.1'	19°59.0'	S 4°19.0'	307°19.4'	S 22°01.7'	142°02.4'	N 23°07.8'

Thu May 11, 2017 UTC

UTC	Venus -4.4 v = 0.7' d = 0.4'		Jupiter -2.2 v = 2.7' d = 0.1'		Saturn +0.2 v = 2.6' d = 0.0'		Mars +1.6 v = 0.6' d = 0.2'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	222°12.5'	N 2°40.5'	35°01.6'	S 4°18.9'	322°22.0'	S 22°01.7'	157°03.0'	N 23°08.0'
1	237°13.2'	N 2°40.9'	50°04.3'	S 4°18.8'	337°24.6'	S 22°01.7'	172°03.7'	N 23°08.3'
2	252°13.9'	N 2°41.3'	65°07.0'	S 4°18.8'	352°27.2'	S 22°01.7'	187°04.3'	N 23°08.5'
3	267°14.6'	N 2°41.7'	80°09.6'	S 4°18.7'	7°29.8'	S 22°01.7'	202°04.9'	N 23°08.7'
4	282°15.3'	N 2°42.1'	95°12.3'	S 4°18.6'	22°32.4'	S 22°01.7'	217°05.6'	N 23°08.9'
5	297°16.0'	N 2°42.5'	110°14.9'	S 4°18.5'	37°35.0'	S 22°01.7'	232°06.2'	N 23°09.2'
6	312°16.7'	N 2°42.9'	125°17.6'	S 4°18.5'	52°37.6'	S 22°01.7'	247°06.8'	N 23°09.4'
7	327°17.5'	N 2°43.3'	140°20.3'	S 4°18.4'	67°40.2'	S 22°01.6'	262°07.5'	N 23°09.6'
8	342°18.2'	N 2°43.7'	155°22.9'	S 4°18.3'	82°42.8'	S 22°01.6'	277°08.1'	N 23°09.8'
9	357°18.9'	N 2°44.2'	170°25.6'	S 4°18.2'	97°45.4'	S 22°01.6'	292°08.7'	N 23°10.1'
10	12°19.6'	N 2°44.6'	185°28.3'	S 4°18.2'	112°48.0'	S 22°01.6'	307°09.4'	N 23°10.3'
11	27°20.3'	N 2°45.0'	200°30.9'	S 4°18.1'	127°50.6'	S 22°01.6'	322°10.0'	N 23°10.5'
12	42°21.0'	N 2°45.4'	215°33.6'	S 4°18.0'	142°53.2'	S 22°01.6'	337°10.6'	N 23°10.7'
13	57°21.7'	N 2°45.8'	230°36.2'	S 4°17.9'	157°55.8'	S 22°01.6'	352°11.3'	N 23°11.0'
14	72°22.3'	N 2°46.2'	245°38.9'	S 4°17.9'	172°58.4'	S 22°01.6'	7°11.9'	N 23°11.2'
15	87°23.0'	N 2°46.6'	260°41.5'	S 4°17.8'	188°01.0'	S 22°01.6'	22°12.5'	N 23°11.4'
16	102°23.7'	N 2°47.0'	275°44.2'	S 4°17.7'	203°03.6'	S 22°01.6'	37°13.2'	N 23°11.6'
17	117°24.4'	N 2°47.5'	290°46.9'	S 4°17.7'	218°06.2'	S 22°01.6'	52°13.8'	N 23°11.8'
18	132°25.1'	N 2°47.9'	305°49.5'	S 4°17.6'	233°08.8'	S 22°01.6'	67°14.4'	N 23°12.1'
19	147°25.8'	N 2°48.3'	320°52.2'	S 4°17.5'	248°11.4'	S 22°01.6'	82°15.1'	N 23°12.3'
20	162°26.5'	N 2°48.7'	335°54.8'	S 4°17.4'	263°14.0'	S 22°01.6'	97°15.7'	N 23°12.5'
21	177°27.2'	N 2°49.1'	350°57.5'	S 4°17.4'	278°16.6'	S 22°01.6'	112°16.3'	N 23°12.7'
22	192°27.9'	N 2°49.6'	6°00.2'	S 4°17.3'	293°19.3'	S 22°01.6'	127°17.0'	N 23°12.9'
23	207°28.5'	N 2°50.0'	21°02.8'	S 4°17.2'	308°21.9'	S 22°01.6'	142°17.6'	N 23°13.2'

Fri May 12, 2017 UTC

UTC	Venus -4.4 v = 0.7' d = 0.4'		Jupiter -2.2 v = 2.7' d = 0.1'		Saturn +0.2 v = 2.6' d = 0.0'		Mars +1.6 v = 0.6' d = 0.2'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	222°29.2'	N 2°50.4'	36°05.5'	S 4°17.2'	323°24.5'	S 22°01.6'	157°18.2'	N 23°13.4'
1	237°29.9'	N 2°50.8'	51°08.1'	S 4°17.1'	338°27.1'	S 22°01.6'	172°18.9'	N 23°13.6'
2	252°30.6'	N 2°51.2'	66°10.8'	S 4°17.0'	353°29.7'	S 22°01.6'	187°19.5'	N 23°13.8'
3	267°31.3'	N 2°51.7'	81°13.4'	S 4°16.9'	8°32.3'	S 22°01.6'	202°20.1'	N 23°14.0'
4	282°31.9'	N 2°52.1'	96°16.1'	S 4°16.9'	23°34.9'	S 22°01.6'	217°20.8'	N 23°14.3'
5	297°32.6'	N 2°52.5'	111°18.7'	S 4°16.8'	38°37.5'	S 22°01.6'	232°21.4'	N 23°14.5'
6	312°33.3'	N 2°53.0'	126°21.4'	S 4°16.7'	53°40.1'	S 22°01.6'	247°22.0'	N 23°14.7'
7	327°34.0'	N 2°53.4'	141°24.1'	S 4°16.7'	68°42.7'	S 22°01.6'	262°22.7'	N 23°14.9'
8	342°34.6'	N 2°53.8'	156°26.7'	S 4°16.6'	83°45.3'	S 22°01.6'	277°23.3'	N 23°15.1'
9	357°35.3'	N 2°54.2'	171°29.4'	S 4°16.5'	98°47.9'	S 22°01.6'	292°23.9'	N 23°15.3'
10	12°36.0'	N 2°54.7'	186°32.0'	S 4°16.5'	113°50.5'	S 22°01.5'	307°24.6'	N 23°15.6'
11	27°36.6'	N 2°55.1'	201°34.7'	S 4°16.4'	128°53.1'	S 22°01.5'	322°25.2'	N 23°15.8'
12	42°37.3'	N 2°55.5'	216°37.3'	S 4°16.3'	143°55.7'	S 22°01.5'	337°25.8'	N 23°16.0'
13	57°38.0'	N 2°56.0'	231°40.0'	S 4°16.2'	158°58.4'	S 22°01.5'	352°26.5'	N 23°16.2'
14	72°38.6'	N 2°56.4'	246°42.6'	S 4°16.2'	174°01.0'	S 22°01.5'	7°27.1'	N 23°16.4'
15	87°39.3'	N 2°56.9'	261°45.3'	S 4°16.1'	189°03.6'	S 22°01.5'	22°27.7'	N 23°16.6'
16	102°39.9'	N 2°57.3'	276°47.9'	S 4°16.0'	204°06.2'	S 22°01.5'	37°28.4'	N 23°16.8'
17	117°40.6'	N 2°57.7'	291°50.6'	S 4°16.0'	219°08.8'	S 22°01.5'	52°29.0'	N 23°17.1'
18	132°41.3'	N 2°58.2'	306°53.2'	S 4°15.9'	234°11.4'	S 22°01.5'	67°29.6'	N 23°17.3'
19	147°41.9'	N 2°58.6'	321°55.9'	S 4°15.8'	249°14.0'	S 22°01.5'	82°30.3'	N 23°17.5'
20	162°42.6'	N 2°59.1'	336°58.5'	S 4°15.8'	264°16.6'	S 22°01.5'	97°30.9'	N 23°17.7'
21	177°43.2'	N 2°59.5'	352°01.2'	S 4°15.7'	279°19.2'	S 22°01.5'	112°31.5'	N 23°17.9'
22	192°43.9'	N 2°59.9'	7°03.8'	S 4°15.6'	294°21.8'	S 22°01.5'	127°32.2'	N 23°18.1'
23	207°44.5'	N 3°00.4'	22°06.5'	S 4°15.6'	309°24.4'	S 22°01.5'	142°32.8'	N 23°18.3'

Sat May 13, 2017 UTC

UTC	Venus -4.4 v = 0.6' d = 0.5'		Jupiter -2.2 v = 2.6' d = 0.1'		Saturn +0.2 v = 2.6' d = 0.0'		Mars +1.6 v = 0.6' d = 0.2'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	222°45.2'	N 3°00.8'	37°09.2'	S 4°15.5'	324°27.0'	S 22°01.5'	157°33.4'	N 23°18.5'
1	237°45.8'	N 3°01.3'	52°11.8'	S 4°15.4'	339°29.7'	S 22°01.5'	172°34.1'	N 23°18.7'
2	252°46.5'	N 3°01.7'	67°14.5'	S 4°15.3'	354°32.3'	S 22°01.5'	187°34.7'	N 23°19.0'
3	267°47.1'	N 3°02.2'	82°17.1'	S 4°15.3'	9°34.9'	S 22°01.5'	202°35.3'	N 23°19.2'
4	282°47.7'	N 3°02.6'	97°19.8'	S 4°15.2'	24°37.5'	S 22°01.5'	217°36.0'	N 23°19.4'
5	297°48.4'	N 3°03.1'	112°22.4'	S 4°15.1'	39°40.1'	S 22°01.5'	232°36.6'	N 23°19.6'
6	312°49.0'	N 3°03.5'	127°25.1'	S 4°15.1'	54°42.7'	S 22°01.5'	247°37.2'	N 23°19.8'
7	327°49.7'	N 3°04.0'	142°27.7'	S 4°15.0'	69°45.3'	S 22°01.5'	262°37.9'	N 23°20.0'
8	342°50.3'	N 3°04.4'	157°30.3'	S 4°14.9'	84°47.9'	S 22°01.5'	277°38.5'	N 23°20.2'
9	357°50.9'	N 3°04.9'	172°33.0'	S 4°14.9'	99°50.5'	S 22°01.5'	292°39.1'	N 23°20.4'
10	12°51.6'	N 3°05.4'	187°35.6'	S 4°14.8'	114°53.1'	S 22°01.5'	307°39.8'	N 23°20.6'
11	27°52.2'	N 3°05.8'	202°38.3'	S 4°14.7'	129°55.8'	S 22°01.5'	322°40.4'	N 23°20.8'
12	42°52.8'	N 3°06.3'	217°40.9'	S 4°14.7'	144°58.4'	S 22°01.4'	337°41.0'	N 23°21.0'
13	57°53.5'	N 3°06.7'	232°43.6'	S 4°14.6'	160°01.0'	S 22°01.4'	352°41.7'	N 23°21.2'
14	72°54.1'	N 3°07.2'	247°46.2'	S 4°14.5'	175°03.6'	S 22°01.4'	7°42.3'	N 23°21.4'
15	87°54.7'	N 3°07.6'	262°48.9'	S 4°14.5'	190°06.2'	S 22°01.4'	22°42.9'	N 23°21.6'
16	102°55.4'	N 3°08.1'	277°51.5'	S 4°14.4'	205°08.8'	S 22°01.4'	37°43.6'	N 23°21.9'
17	117°56.0'	N 3°08.6'	292°54.2'	S 4°14.3'	220°11.4'	S 22°01.4'	52°44.2'	N 23°22.1'
18	132°56.6'	N 3°09.0'	307°56.8'	S 4°14.3'	235°14.0'	S 22°01.4'	67°44.8'	N 23°22.3'
19	147°57.2'	N 3°09.5'	322°59.5'	S 4°14.2'	250°16.6'	S 22°01.4'	82°45.5'	N 23°22.5'
20	162°57.9'	N 3°10.0'	338°02.1'	S 4°14.1'	265°19.3'	S 22°01.4'	97°46.1'	N 23°22.7'
21	177°58.5'	N 3°10.4'	353°04.8'	S 4°14.1'	280°21.9'	S 22°01.4'	112°46.7'	N 23°22.9'
22	192°59.1'	N 3°10.9'	8°07.4'	S 4°14.0'	295°24.5'	S 22°01.4'	127°47.4'	N 23°23.1'
23	207°59.7'	N 3°11.4'	23°10.1'	S 4°13.9'	310°27.1'	S 22°01.4'	142°48.0'	N 23°23.3'

Sun May 14, 2017 UTC

UTC	Venus -4.4 v = 0.6' d = 0.5'		Jupiter -2.2 v = 2.6' d = 0.1'		Saturn +0.2 v = 2.6' d = 0.0'		Mars +1.6 v = 0.6' d = 0.2'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	223°00.3'	N 3°11.8'	38°12.7'	S 4°13.9'	325°29.7'	S 22°01.4'	157°48.6'	N 23°23.5'
1	238°00.9'	N 3°12.3'	53°15.3'	S 4°13.8'	340°32.3'	S 22°01.4'	172°49.2'	N 23°23.7'
2	253°01.6'	N 3°12.8'	68°18.0'	S 4°13.7'	355°34.9'	S 22°01.4'	187°49.9'	N 23°23.9'
3	268°02.2'	N 3°13.2'	83°20.6'	S 4°13.7'	10°37.5'	S 22°01.4'	202°50.5'	N 23°24.1'
4	283°02.8'	N 3°13.7'	98°23.3'	S 4°13.6'	25°40.2'	S 22°01.4'	217°51.1'	N 23°24.3'
5	298°03.4'	N 3°14.2'	113°25.9'	S 4°13.5'	40°42.8'	S 22°01.4'	232°51.8'	N 23°24.5'
6	313°04.0'	N 3°14.7'	128°28.6'	S 4°13.5'	55°45.4'	S 22°01.4'	247°52.4'	N 23°24.7'
7	328°04.6'	N 3°15.1'	143°31.2'	S 4°13.4'	70°48.0'	S 22°01.4'	262°53.0'	N 23°24.9'
8	343°05.2'	N 3°15.6'	158°33.8'	S 4°13.3'	85°50.6'	S 22°01.4'	277°53.7'	N 23°25.1'
9	358°05.8'	N 3°16.1'	173°36.5'	S 4°13.3'	100°53.2'	S 22°01.4'	292°54.3'	N 23°25.3'
10	13°06.4'	N 3°16.6'	188°39.1'	S 4°13.2'	115°55.8'	S 22°01.4'	307°54.9'	N 23°25.5'
11	28°07.0'	N 3°17.0'	203°41.8'	S 4°13.2'	130°58.4'	S 22°01.4'	322°55.6'	N 23°25.7'
12	43°07.6'	N 3°17.5'	218°44.4'	S 4°13.1'	146°01.1'	S 22°01.4'	337°56.2'	N 23°25.9'
13	58°08.2'	N 3°18.0'	233°47.1'	S 4°13.0'	161°03.7'	S 22°01.4'	352°56.8'	N 23°26.1'
14	73°08.8'	N 3°18.5'	248°49.7'	S 4°13.0'	176°06.3'	S 22°01.4'	7°57.5'	N 23°26.3'
15	88°09.4'	N 3°19.0'	263°52.3'	S 4°12.9'	191°08.9'	S 22°01.3'	22°58.1'	N 23°26.5'
16	103°10.0'	N 3°19.4'	278°55.0'	S 4°12.8'	206°11.5'	S 22°01.3'	37°58.7'	N 23°26.7'
17	118°10.6'	N 3°19.9'	293°57.6'	S 4°12.8'	221°14.1'	S 22°01.3'	52°59.4'	N 23°26.9'
18	133°11.2'	N 3°20.4'	309°00.3'	S 4°12.7'	236°16.7'	S 22°01.3'	67°60.0'	N 23°27.1'
19	148°11.8'	N 3°20.9'	324°02.9'	S 4°12.6'	251°19.4'	S 22°01.3'	83°00.6'	N 23°27.2'
20	163°12.4'	N 3°21.4'	339°05.5'	S 4°12.6'	266°22.0'	S 22°01.3'	98°01.3'	N 23°27.4'
21	178°13.0'	N 3°21.9'	354°08.2'	S 4°12.5'	281°24.6'	S 22°01.3'	113°01.9'	N 23°27.6'
22	193°13.6'	N 3°22.4'	9°10.8'	S 4°12.4'	296°27.2'	S 22°01.3'	128°02.5'	N 23°27.8'
23	208°14.2'	N 3°22.8'	24°13.5'	S 4°12.4'	311°29.8'	S 22°01.3'	143°03.2'	N 23°28.0'

Mon May 15, 2017 UTC

UTC	Venus -4.4		Jupiter -2.2		Saturn +0.2		Mars +1.6	
	v = 0.6' d = 0.5'		v = 2.6' d = 0.1'		v = 2.6' d = 0.0'		v = 0.6' d = 0.2'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	223°14.8'	N 3°23.3'	39°16.1'	S 4°12.3'	326°32.4'	S 22°01.3'	158°03.8'	N 23°28.2'
1	238°15.3'	N 3°23.8'	54°18.7'	S 4°12.3'	341°35.0'	S 22°01.3'	173°04.4'	N 23°28.4'
2	253°15.9'	N 3°24.3'	69°21.4'	S 4°12.2'	356°37.7'	S 22°01.3'	188°05.0'	N 23°28.6'
3	268°16.5'	N 3°24.8'	84°24.0'	S 4°12.1'	11°40.3'	S 22°01.3'	203°05.7'	N 23°28.8'
4	283°17.1'	N 3°25.3'	99°26.7'	S 4°12.1'	26°42.9'	S 22°01.3'	218°06.3'	N 23°29.0'
5	298°17.7'	N 3°25.8'	114°29.3'	S 4°12.0'	41°45.5'	S 22°01.3'	233°06.9'	N 23°29.2'
6	313°18.3'	N 3°26.3'	129°31.9'	S 4°11.9'	56°48.1'	S 22°01.3'	248°07.6'	N 23°29.4'
7	328°18.8'	N 3°26.8'	144°34.6'	S 4°11.9'	71°50.7'	S 22°01.3'	263°08.2'	N 23°29.6'
8	343°19.4'	N 3°27.3'	159°37.2'	S 4°11.8'	86°53.4'	S 22°01.3'	278°08.8'	N 23°29.7'
9	358°20.0'	N 3°27.8'	174°39.8'	S 4°11.8'	101°56.0'	S 22°01.3'	293°09.5'	N 23°29.9'
10	13°20.6'	N 3°28.3'	189°42.5'	S 4°11.7'	116°58.6'	S 22°01.3'	308°10.1'	N 23°30.1'
11	28°21.1'	N 3°28.8'	204°45.1'	S 4°11.6'	132°01.2'	S 22°01.3'	323°10.7'	N 23°30.3'
12	43°21.7'	N 3°29.3'	219°47.8'	S 4°11.6'	147°03.8'	S 22°01.3'	338°11.4'	N 23°30.5'
13	58°22.3'	N 3°29.8'	234°50.4'	S 4°11.5'	162°06.4'	S 22°01.3'	353°12.0'	N 23°30.7'
14	73°22.8'	N 3°30.3'	249°53.0'	S 4°11.4'	177°09.1'	S 22°01.3'	8°12.6'	N 23°30.9'
15	88°23.4'	N 3°30.8'	264°55.7'	S 4°11.4'	192°11.7'	S 22°01.3'	23°13.3'	N 23°31.1'
16	103°24.0'	N 3°31.3'	279°58.3'	S 4°11.3'	207°14.3'	S 22°01.3'	38°13.9'	N 23°31.3'
17	118°24.5'	N 3°31.8'	295°00.9'	S 4°11.3'	222°16.9'	S 22°01.2'	53°14.5'	N 23°31.4'
18	133°25.1'	N 3°32.3'	310°03.6'	S 4°11.2'	237°19.5'	S 22°01.2'	68°15.1'	N 23°31.6'
19	148°25.7'	N 3°32.8'	325°06.2'	S 4°11.1'	252°22.1'	S 22°01.2'	83°15.8'	N 23°31.8'
20	163°26.2'	N 3°33.3'	340°08.8'	S 4°11.1'	267°24.8'	S 22°01.2'	98°16.4'	N 23°32.0'
21	178°26.8'	N 3°33.8'	355°11.5'	S 4°11.0'	282°27.4'	S 22°01.2'	113°17.0'	N 23°32.2'
22	193°27.4'	N 3°34.3'	10°14.1'	S 4°11.0'	297°30.0'	S 22°01.2'	128°17.7'	N 23°32.4'
23	208°27.9'	N 3°34.8'	25°16.7'	S 4°10.9'	312°32.6'	S 22°01.2'	143°18.3'	N 23°32.6'

Tue May 16, 2017 UTC

UTC	Venus -4.4		Jupiter -2.2		Saturn +0.2		Mars +1.6	
	v = 0.5' d = 0.5'		v = 2.6' d = 0.1'		v = 2.6' d = 0.0'		v = 0.6' d = 0.2'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	223°28.5'	N 3°35.3'	40°19.4'	S 4°10.8'	327°35.2'	S 22°01.2'	158°18.9'	N 23°32.7'
1	238°29.0'	N 3°35.9'	55°22.0'	S 4°10.8'	342°37.8'	S 22°01.2'	173°19.6'	N 23°32.9'
2	253°29.6'	N 3°36.4'	70°24.6'	S 4°10.7'	357°40.5'	S 22°01.2'	188°20.2'	N 23°33.1'
3	268°30.1'	N 3°36.9'	85°27.3'	S 4°10.6'	12°43.1'	S 22°01.2'	203°20.8'	N 23°33.3'
4	283°30.7'	N 3°37.4'	100°29.9'	S 4°10.6'	27°45.7'	S 22°01.2'	218°21.5'	N 23°33.5'
5	298°31.2'	N 3°37.9'	115°32.5'	S 4°10.5'	42°48.3'	S 22°01.2'	233°22.1'	N 23°33.7'
6	313°31.8'	N 3°38.4'	130°35.2'	S 4°10.5'	57°50.9'	S 22°01.2'	248°22.7'	N 23°33.8'
7	328°32.3'	N 3°38.9'	145°37.8'	S 4°10.4'	72°53.6'	S 22°01.2'	263°23.4'	N 23°34.0'
8	343°32.9'	N 3°39.5'	160°40.4'	S 4°10.3'	87°56.2'	S 22°01.2'	278°24.0'	N 23°34.2'
9	358°33.4'	N 3°40.0'	175°43.1'	S 4°10.3'	102°58.8'	S 22°01.2'	293°24.6'	N 23°34.4'
10	13°34.0'	N 3°40.5'	190°45.7'	S 4°10.2'	118°01.4'	S 22°01.2'	308°25.2'	N 23°34.6'
11	28°34.5'	N 3°41.0'	205°48.3'	S 4°10.2'	133°04.0'	S 22°01.2'	323°25.9'	N 23°34.8'
12	43°35.1'	N 3°41.5'	220°50.9'	S 4°10.1'	148°06.6'	S 22°01.2'	338°26.5'	N 23°34.9'
13	58°35.6'	N 3°42.0'	235°53.6'	S 4°10.0'	163°09.3'	S 22°01.2'	353°27.1'	N 23°35.1'
14	73°36.2'	N 3°42.6'	250°56.2'	S 4°10.0'	178°11.9'	S 22°01.2'	8°27.8'	N 23°35.3'
15	88°36.7'	N 3°43.1'	265°58.8'	S 4°09.9'	193°14.5'	S 22°01.2'	23°28.4'	N 23°35.5'
16	103°37.2'	N 3°43.6'	281°01.5'	S 4°09.9'	208°17.1'	S 22°01.2'	38°29.0'	N 23°35.7'
17	118°37.8'	N 3°44.1'	296°04.1'	S 4°09.8'	223°19.7'	S 22°01.2'	53°29.7'	N 23°35.8'
18	133°38.3'	N 3°44.7'	311°06.7'	S 4°09.8'	238°22.4'	S 22°01.2'	68°30.3'	N 23°36.0'
19	148°38.8'	N 3°45.2'	326°09.4'	S 4°09.7'	253°25.0'	S 22°01.1'	83°30.9'	N 23°36.2'
20	163°39.4'	N 3°45.7'	341°12.0'	S 4°09.6'	268°27.6'	S 22°01.1'	98°31.6'	N 23°36.4'
21	178°39.9'	N 3°46.2'	356°14.6'	S 4°09.6'	283°30.2'	S 22°01.1'	113°32.2'	N 23°36.5'
22	193°40.4'	N 3°46.8'	11°17.2'	S 4°09.5'	298°32.8'	S 22°01.1'	128°32.8'	N 23°36.7'
23	208°41.0'	N 3°47.3'	26°19.9'	S 4°09.5'	313°35.5'	S 22°01.1'	143°33.5'	N 23°36.9'



Wed May 17, 2017 UTC

UTC	Venus -4.4		Jupiter -2.2		Saturn +0.1		Mars +1.6	
	v = 0.5' d = 0.5'		v = 2.6' d = 0.1'		v = 2.6' d = 0.0'		v = 0.6' d = 0.2'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	223°41.5'	N 3°47.8'	41°22.5'	S 4°09.4'	328°38.1'	S 22°01.1'	158°34.1'	N 23°37.1'
1	238°42.0'	N 3°48.4'	56°25.1'	S 4°09.3'	343°40.7'	S 22°01.1'	173°34.7'	N 23°37.2'
2	253°42.6'	N 3°48.9'	71°27.7'	S 4°09.3'	358°43.3'	S 22°01.1'	188°35.3'	N 23°37.4'
3	268°43.1'	N 3°49.4'	86°30.4'	S 4°09.2'	13°46.0'	S 22°01.1'	203°36.0'	N 23°37.6'
4	283°43.6'	N 3°50.0'	101°33.0'	S 4°09.2'	28°48.6'	S 22°01.1'	218°36.6'	N 23°37.8'
5	298°44.1'	N 3°50.5'	116°35.6'	S 4°09.1'	43°51.2'	S 22°01.1'	233°37.2'	N 23°37.9'
6	313°44.7'	N 3°51.0'	131°38.2'	S 4°09.1'	58°53.8'	S 22°01.1'	248°37.9'	N 23°38.1'
7	328°45.2'	N 3°51.6'	146°40.9'	S 4°09.0'	73°56.4'	S 22°01.1'	263°38.5'	N 23°38.3'
8	343°45.7'	N 3°52.1'	161°43.5'	S 4°08.9'	88°59.1'	S 22°01.1'	278°39.1'	N 23°38.5'
9	358°46.2'	N 3°52.6'	176°46.1'	S 4°08.9'	104°01.7'	S 22°01.1'	293°39.8'	N 23°38.6'
10	13°46.7'	N 3°53.2'	191°48.7'	S 4°08.8'	119°04.3'	S 22°01.1'	308°40.4'	N 23°38.8'
11	28°47.3'	N 3°53.7'	206°51.4'	S 4°08.8'	134°06.9'	S 22°01.1'	323°41.0'	N 23°39.0'
12	43°47.8'	N 3°54.2'	221°54.0'	S 4°08.7'	149°09.5'	S 22°01.1'	338°41.7'	N 23°39.2'
13	58°48.3'	N 3°54.8'	236°56.6'	S 4°08.7'	164°12.2'	S 22°01.1'	353°42.3'	N 23°39.3'
14	73°48.8'	N 3°55.3'	251°59.2'	S 4°08.6'	179°14.8'	S 22°01.1'	8°42.9'	N 23°39.5'
15	88°49.3'	N 3°55.9'	267°01.9'	S 4°08.5'	194°17.4'	S 22°01.1'	23°43.5'	N 23°39.7'
16	103°49.8'	N 3°56.4'	282°04.5'	S 4°08.5'	209°20.0'	S 22°01.1'	38°44.2'	N 23°39.8'
17	118°50.3'	N 3°57.0'	297°07.1'	S 4°08.4'	224°22.7'	S 22°01.1'	53°44.8'	N 23°40.0'
18	133°50.8'	N 3°57.5'	312°09.7'	S 4°08.4'	239°25.3'	S 22°01.1'	68°45.4'	N 23°40.2'
19	148°51.4'	N 3°58.0'	327°12.4'	S 4°08.3'	254°27.9'	S 22°01.1'	83°46.1'	N 23°40.3'
20	163°51.9'	N 3°58.6'	342°15.0'	S 4°08.3'	269°30.5'	S 22°01.1'	98°46.7'	N 23°40.5'
21	178°52.4'	N 3°59.1'	357°17.6'	S 4°08.2'	284°33.1'	S 22°01.0'	113°47.3'	N 23°40.7'
22	193°52.9'	N 3°59.7'	12°20.2'	S 4°08.2'	299°35.8'	S 22°01.0'	128°48.0'	N 23°40.8'
23	208°53.4'	N 4°00.2'	27°22.8'	S 4°08.1'	314°38.4'	S 22°01.0'	143°48.6'	N 23°41.0'

Thu May 18, 2017 UTC

UTC	Venus -4.4		Jupiter -2.2		Saturn +0.1		Mars +1.6	
	v = 0.5' d = 0.6'		v = 2.6' d = 0.1'		v = 2.6' d = 0.0'		v = 0.6' d = 0.2'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	223°53.9'	N 4°00.8'	42°25.5'	S 4°08.0'	329°41.0'	S 22°01.0'	158°49.2'	N 23°41.2'
1	238°54.4'	N 4°01.3'	57°28.1'	S 4°08.0'	344°43.6'	S 22°01.0'	173°49.8'	N 23°41.3'
2	253°54.9'	N 4°01.9'	72°30.7'	S 4°07.9'	359°46.3'	S 22°01.0'	188°50.5'	N 23°41.5'
3	268°55.4'	N 4°02.4'	87°33.3'	S 4°07.9'	14°48.9'	S 22°01.0'	203°51.1'	N 23°41.7'
4	283°55.9'	N 4°03.0'	102°35.9'	S 4°07.8'	29°51.5'	S 22°01.0'	218°51.7'	N 23°41.8'
5	298°56.4'	N 4°03.5'	117°38.6'	S 4°07.8'	44°54.1'	S 22°01.0'	233°52.4'	N 23°42.0'
6	313°56.9'	N 4°04.1'	132°41.2'	S 4°07.7'	59°56.8'	S 22°01.0'	248°53.0'	N 23°42.2'
7	328°57.4'	N 4°04.6'	147°43.8'	S 4°07.7'	74°59.4'	S 22°01.0'	263°53.6'	N 23°42.3'
8	343°57.9'	N 4°05.2'	162°46.4'	S 4°07.6'	90°02.0'	S 22°01.0'	278°54.3'	N 23°42.5'
9	358°58.3'	N 4°05.7'	177°49.0'	S 4°07.5'	105°04.6'	S 22°01.0'	293°54.9'	N 23°42.7'
10	13°58.8'	N 4°06.3'	192°51.7'	S 4°07.5'	120°07.3'	S 22°01.0'	308°55.5'	N 23°42.8'
11	28°59.3'	N 4°06.9'	207°54.3'	S 4°07.4'	135°09.9'	S 22°01.0'	323°56.2'	N 23°43.0'
12	43°59.8'	N 4°07.4'	222°56.9'	S 4°07.4'	150°12.5'	S 22°01.0'	338°56.8'	N 23°43.2'
13	59°00.3'	N 4°08.0'	237°59.5'	S 4°07.3'	165°15.1'	S 22°01.0'	353°57.4'	N 23°43.3'
14	74°00.8'	N 4°08.5'	253°02.1'	S 4°07.3'	180°17.8'	S 22°01.0'	8°58.0'	N 23°43.5'
15	89°01.3'	N 4°09.1'	268°04.7'	S 4°07.2'	195°20.4'	S 22°01.0'	23°58.7'	N 23°43.6'
16	104°01.8'	N 4°09.7'	283°07.4'	S 4°07.2'	210°23.0'	S 22°01.0'	38°59.3'	N 23°43.8'
17	119°02.2'	N 4°10.2'	298°10.0'	S 4°07.1'	225°25.6'	S 22°01.0'	53°59.9'	N 23°44.0'
18	134°02.7'	N 4°10.8'	313°12.6'	S 4°07.1'	240°28.3'	S 22°01.0'	69°00.6'	N 23°44.1'
19	149°03.2'	N 4°11.3'	328°15.2'	S 4°07.0'	255°30.9'	S 22°01.0'	84°01.2'	N 23°44.3'
20	164°03.7'	N 4°11.9'	343°17.8'	S 4°07.0'	270°33.5'	S 22°01.0'	99°01.8'	N 23°44.5'
21	179°04.2'	N 4°12.5'	358°20.4'	S 4°06.9'	285°36.1'	S 22°01.0'	114°02.5'	N 23°44.6'
22	194°04.6'	N 4°13.0'	13°23.1'	S 4°06.9'	300°38.8'	S 22°01.0'	129°03.1'	N 23°44.8'
23	209°05.1'	N 4°13.6'	28°25.7'	S 4°06.8'	315°41.4'	S 22°00.9'	144°03.7'	N 23°44.9'

Fri May 19, 2017 UTC

UTC	Venus -4.4 v = 0.5' d = 0.6'		Jupiter -2.2 v = 2.6' d = 0.1'		Saturn +0.1 v = 2.6' d = 0.0'		Mars +1.6 v = 0.6' d = 0.2'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	224°05.6'	N 4°14.2'	43°28.3'	S 4°06.7'	330°44.0'	S 22°00.9'	159°04.3'	N 23°45.1'
1	239°06.1'	N 4°14.7'	58°30.9'	S 4°06.7'	345°46.6'	S 22°00.9'	174°05.0'	N 23°45.2'
2	254°06.6'	N 4°15.3'	73°33.5'	S 4°06.6'	0°49.3'	S 22°00.9'	189°05.6'	N 23°45.4'
3	269°07.0'	N 4°15.9'	88°36.1'	S 4°06.6'	15°51.9'	S 22°00.9'	204°06.2'	N 23°45.6'
4	284°07.5'	N 4°16.4'	103°38.7'	S 4°06.5'	30°54.5'	S 22°00.9'	219°06.9'	N 23°45.7'
5	299°08.0'	N 4°17.0'	118°41.4'	S 4°06.5'	45°57.1'	S 22°00.9'	234°07.5'	N 23°45.9'
6	314°08.4'	N 4°17.6'	133°44.0'	S 4°06.4'	60°59.8'	S 22°00.9'	249°08.1'	N 23°46.0'
7	329°08.9'	N 4°18.2'	148°46.6'	S 4°06.4'	76°02.4'	S 22°00.9'	264°08.8'	N 23°46.2'
8	344°09.4'	N 4°18.7'	163°49.2'	S 4°06.3'	91°05.0'	S 22°00.9'	279°09.4'	N 23°46.3'
9	359°09.8'	N 4°19.3'	178°51.8'	S 4°06.3'	106°07.7'	S 22°00.9'	294°10.0'	N 23°46.5'
10	14°10.3'	N 4°19.9'	193°54.4'	S 4°06.2'	121°10.3'	S 22°00.9'	309°10.6'	N 23°46.7'
11	29°10.8'	N 4°20.4'	208°57.0'	S 4°06.2'	136°12.9'	S 22°00.9'	324°11.3'	N 23°46.8'
12	44°11.2'	N 4°21.0'	223°59.6'	S 4°06.1'	151°15.5'	S 22°00.9'	339°11.9'	N 23°47.0'
13	59°11.7'	N 4°21.6'	239°02.3'	S 4°06.1'	166°18.2'	S 22°00.9'	354°12.5'	N 23°47.1'
14	74°12.2'	N 4°22.2'	254°04.9'	S 4°06.0'	181°20.8'	S 22°00.9'	9°13.2'	N 23°47.3'
15	89°12.6'	N 4°22.7'	269°07.5'	S 4°06.0'	196°23.4'	S 22°00.9'	24°13.8'	N 23°47.4'
16	104°13.1'	N 4°23.3'	284°10.1'	S 4°05.9'	211°26.0'	S 22°00.9'	39°14.4'	N 23°47.6'
17	119°13.5'	N 4°23.9'	299°12.7'	S 4°05.9'	226°28.7'	S 22°00.9'	54°15.1'	N 23°47.7'
18	134°14.0'	N 4°24.5'	314°15.3'	S 4°05.8'	241°31.3'	S 22°00.9'	69°15.7'	N 23°47.9'
19	149°14.4'	N 4°25.1'	329°17.9'	S 4°05.8'	256°33.9'	S 22°00.9'	84°16.3'	N 23°48.0'
20	164°14.9'	N 4°25.6'	344°20.5'	S 4°05.7'	271°36.6'	S 22°00.9'	99°16.9'	N 23°48.2'
21	179°15.4'	N 4°26.2'	359°23.1'	S 4°05.7'	286°39.2'	S 22°00.9'	114°17.6'	N 23°48.3'
22	194°15.8'	N 4°26.8'	14°25.7'	S 4°05.6'	301°41.8'	S 22°00.9'	129°18.2'	N 23°48.5'
23	209°16.3'	N 4°27.4'	29°28.4'	S 4°05.6'	316°44.4'	S 22°00.9'	144°18.8'	N 23°48.6'

Sat May 20, 2017 UTC

UTC	Venus -4.3 v = 0.4' d = 0.6'		Jupiter -2.2 v = 2.6' d = 0.0'		Saturn +0.1 v = 2.6' d = 0.0'		Mars +1.6 v = 0.6' d = 0.1'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	224°16.7'	N 4°28.0'	44°31.0'	S 4°05.5'	331°47.1'	S 22°00.9'	159°19.5'	N 23°48.8'
1	239°17.2'	N 4°28.6'	59°33.6'	S 4°05.5'	346°49.7'	S 22°00.8'	174°20.1'	N 23°48.9'
2	254°17.6'	N 4°29.1'	74°36.2'	S 4°05.4'	1°52.3'	S 22°00.8'	189°20.7'	N 23°49.1'
3	269°18.1'	N 4°29.7'	89°38.8'	S 4°05.4'	16°55.0'	S 22°00.8'	204°21.4'	N 23°49.2'
4	284°18.5'	N 4°30.3'	104°41.4'	S 4°05.3'	31°57.6'	S 22°00.8'	219°22.0'	N 23°49.4'
5	299°19.0'	N 4°30.9'	119°44.0'	S 4°05.3'	47°00.2'	S 22°00.8'	234°22.6'	N 23°49.5'
6	314°19.4'	N 4°31.5'	134°46.6'	S 4°05.2'	62°02.8'	S 22°00.8'	249°23.2'	N 23°49.7'
7	329°19.8'	N 4°32.1'	149°49.2'	S 4°05.2'	77°05.5'	S 22°00.8'	264°23.9'	N 23°49.8'
8	344°20.3'	N 4°32.7'	164°51.8'	S 4°05.1'	92°08.1'	S 22°00.8'	279°24.5'	N 23°50.0'
9	359°20.7'	N 4°33.3'	179°54.4'	S 4°05.1'	107°10.7'	S 22°00.8'	294°25.1'	N 23°50.1'
10	14°21.2'	N 4°33.8'	194°57.0'	S 4°05.0'	122°13.4'	S 22°00.8'	309°25.8'	N 23°50.3'
11	29°21.6'	N 4°34.4'	209°59.6'	S 4°05.0'	137°16.0'	S 22°00.8'	324°26.4'	N 23°50.4'
12	44°22.0'	N 4°35.0'	225°02.2'	S 4°04.9'	152°18.6'	S 22°00.8'	339°27.0'	N 23°50.6'
13	59°22.5'	N 4°35.6'	240°04.9'	S 4°04.9'	167°21.3'	S 22°00.8'	354°27.7'	N 23°50.7'
14	74°22.9'	N 4°36.2'	255°07.5'	S 4°04.8'	182°23.9'	S 22°00.8'	9°28.3'	N 23°50.8'
15	89°23.4'	N 4°36.8'	270°10.1'	S 4°04.8'	197°26.5'	S 22°00.8'	24°28.9'	N 23°51.0'
16	104°23.8'	N 4°37.4'	285°12.7'	S 4°04.7'	212°29.1'	S 22°00.8'	39°29.5'	N 23°51.1'
17	119°24.2'	N 4°38.0'	300°15.3'	S 4°04.7'	227°31.8'	S 22°00.8'	54°30.2'	N 23°51.3'
18	134°24.7'	N 4°38.6'	315°17.9'	S 4°04.6'	242°34.4'	S 22°00.8'	69°30.8'	N 23°51.4'
19	149°25.1'	N 4°39.2'	330°20.5'	S 4°04.6'	257°37.0'	S 22°00.8'	84°31.4'	N 23°51.6'
20	164°25.5'	N 4°39.8'	345°23.1'	S 4°04.5'	272°39.7'	S 22°00.8'	99°32.1'	N 23°51.7'
21	179°25.9'	N 4°40.4'	0°25.7'	S 4°04.5'	287°42.3'	S 22°00.8'	114°32.7'	N 23°51.9'
22	194°26.4'	N 4°41.0'	15°28.3'	S 4°04.4'	302°44.9'	S 22°00.8'	129°33.3'	N 23°52.0'
23	209°26.8'	N 4°41.6'	30°30.9'	S 4°04.4'	317°47.6'	S 22°00.8'	144°34.0'	N 23°52.1'

Sun May 21, 2017 UTC

UTC	Venus -4.3 v = 0.4' d = 0.6'		Jupiter -2.2 v = 2.6' d = 0.0'		Saturn +0.1 v = 2.6' d = 0.0'		Mars +1.6 v = 0.6' d = 0.1'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	224°27.2'	N 4°42.2'	45°33.5'	S 4°04.3'	332°50.2'	S 22°00.8'	159°34.6'	N 23°52.3'
1	239°27.7'	N 4°42.8'	60°36.1'	S 4°04.3'	347°52.8'	S 22°00.8'	174°35.2'	N 23°52.4'
2	254°28.1'	N 4°43.4'	75°38.7'	S 4°04.3'	2°55.5'	S 22°00.7'	189°35.8'	N 23°52.6'
3	269°28.5'	N 4°44.0'	90°41.3'	S 4°04.2'	17°58.1'	S 22°00.7'	204°36.5'	N 23°52.7'
4	284°28.9'	N 4°44.6'	105°43.9'	S 4°04.2'	33°00.7'	S 22°00.7'	219°37.1'	N 23°52.8'
5	299°29.3'	N 4°45.2'	120°46.5'	S 4°04.1'	48°03.3'	S 22°00.7'	234°37.7'	N 23°53.0'
6	314°29.8'	N 4°45.8'	135°49.1'	S 4°04.1'	63°06.0'	S 22°00.7'	249°38.4'	N 23°53.1'
7	329°30.2'	N 4°46.4'	150°51.7'	S 4°04.0'	78°08.6'	S 22°00.7'	264°39.0'	N 23°53.3'
8	344°30.6'	N 4°47.0'	165°54.3'	S 4°04.0'	93°11.2'	S 22°00.7'	279°39.6'	N 23°53.4'
9	359°31.0'	N 4°47.6'	180°56.9'	S 4°03.9'	108°13.9'	S 22°00.7'	294°40.3'	N 23°53.5'
10	14°31.4'	N 4°48.2'	195°59.5'	S 4°03.9'	123°16.5'	S 22°00.7'	309°40.9'	N 23°53.7'
11	29°31.9'	N 4°48.8'	211°02.1'	S 4°03.8'	138°19.1'	S 22°00.7'	324°41.5'	N 23°53.8'
12	44°32.3'	N 4°49.4'	226°04.7'	S 4°03.8'	153°21.8'	S 22°00.7'	339°42.1'	N 23°53.9'
13	59°32.7'	N 4°50.0'	241°07.3'	S 4°03.7'	168°24.4'	S 22°00.7'	354°42.8'	N 23°54.1'
14	74°33.1'	N 4°50.6'	256°09.9'	S 4°03.7'	183°27.0'	S 22°00.7'	9°43.4'	N 23°54.2'
15	89°33.5'	N 4°51.2'	271°12.5'	S 4°03.7'	198°29.7'	S 22°00.7'	24°44.0'	N 23°54.4'
16	104°33.9'	N 4°51.9'	286°15.1'	S 4°03.6'	213°32.3'	S 22°00.7'	39°44.7'	N 23°54.5'
17	119°34.3'	N 4°52.5'	301°17.7'	S 4°03.6'	228°34.9'	S 22°00.7'	54°45.3'	N 23°54.6'
18	134°34.7'	N 4°53.1'	316°20.3'	S 4°03.5'	243°37.6'	S 22°00.7'	69°45.9'	N 23°54.8'
19	149°35.1'	N 4°53.7'	331°22.9'	S 4°03.5'	258°40.2'	S 22°00.7'	84°46.6'	N 23°54.9'
20	164°35.5'	N 4°54.3'	346°25.5'	S 4°03.4'	273°42.8'	S 22°00.7'	99°47.2'	N 23°55.0'
21	179°36.0'	N 4°54.9'	1°28.1'	S 4°03.4'	288°45.5'	S 22°00.7'	114°47.8'	N 23°55.2'
22	194°36.4'	N 4°55.5'	16°30.7'	S 4°03.3'	303°48.1'	S 22°00.7'	129°48.4'	N 23°55.3'
23	209°36.8'	N 4°56.1'	31°33.3'	S 4°03.3'	318°50.7'	S 22°00.7'	144°49.1'	N 23°55.4'

Mon May 22, 2017 UTC

UTC	Venus -4.3 v = 0.4' d = 0.6'		Jupiter -2.2 v = 2.6' d = 0.0'		Saturn +0.1 v = 2.6' d = 0.0'		Mars +1.6 v = 0.6' d = 0.1'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	224°37.2'	N 4°56.8'	46°35.9'	S 4°03.3'	333°53.4'	S 22°00.7'	159°49.7'	N 23°55.6'
1	239°37.6'	N 4°57.4'	61°38.5'	S 4°03.2'	348°56.0'	S 22°00.7'	174°50.3'	N 23°55.7'
2	254°38.0'	N 4°58.0'	76°41.0'	S 4°03.2'	3°58.6'	S 22°00.7'	189°51.0'	N 23°55.8'
3	269°38.4'	N 4°58.6'	91°43.6'	S 4°03.1'	19°01.3'	S 22°00.6'	204°51.6'	N 23°56.0'
4	284°38.8'	N 4°59.2'	106°46.2'	S 4°03.1'	34°03.9'	S 22°00.6'	219°52.2'	N 23°56.1'
5	299°39.2'	N 4°59.8'	121°48.8'	S 4°03.0'	49°06.5'	S 22°00.6'	234°52.9'	N 23°56.2'
6	314°39.6'	N 5°00.5'	136°51.4'	S 4°03.0'	64°09.2'	S 22°00.6'	249°53.5'	N 23°56.3'
7	329°40.0'	N 5°01.1'	151°54.0'	S 4°02.9'	79°11.8'	S 22°00.6'	264°54.1'	N 23°56.5'
8	344°40.4'	N 5°01.7'	166°56.6'	S 4°02.9'	94°14.4'	S 22°00.6'	279°54.7'	N 23°56.6'
9	359°40.8'	N 5°02.3'	181°59.2'	S 4°02.9'	109°17.1'	S 22°00.6'	294°55.4'	N 23°56.7'
10	14°41.1'	N 5°02.9'	197°01.8'	S 4°02.8'	124°19.7'	S 22°00.6'	309°56.0'	N 23°56.9'
11	29°41.5'	N 5°03.6'	212°04.4'	S 4°02.8'	139°22.3'	S 22°00.6'	324°56.6'	N 23°57.0'
12	44°41.9'	N 5°04.2'	227°07.0'	S 4°02.7'	154°25.0'	S 22°00.6'	339°57.3'	N 23°57.1'
13	59°42.3'	N 5°04.8'	242°09.6'	S 4°02.7'	169°27.6'	S 22°00.6'	354°57.9'	N 23°57.2'
14	74°42.7'	N 5°05.4'	257°12.2'	S 4°02.6'	184°30.2'	S 22°00.6'	9°58.5'	N 23°57.4'
15	89°43.1'	N 5°06.1'	272°14.8'	S 4°02.6'	199°32.9'	S 22°00.6'	24°59.2'	N 23°57.5'
16	104°43.5'	N 5°06.7'	287°17.3'	S 4°02.6'	214°35.5'	S 22°00.6'	39°59.8'	N 23°57.6'
17	119°43.9'	N 5°07.3'	302°19.9'	S 4°02.5'	229°38.2'	S 22°00.6'	55°00.4'	N 23°57.8'
18	134°44.3'	N 5°07.9'	317°22.5'	S 4°02.5'	244°40.8'	S 22°00.6'	70°01.0'	N 23°57.9'
19	149°44.6'	N 5°08.6'	332°25.1'	S 4°02.4'	259°43.4'	S 22°00.6'	85°01.7'	N 23°58.0'
20	164°45.0'	N 5°09.2'	347°27.7'	S 4°02.4'	274°46.1'	S 22°00.6'	100°02.3'	N 23°58.1'
21	179°45.4'	N 5°09.8'	2°30.3'	S 4°02.3'	289°48.7'	S 22°00.6'	115°02.9'	N 23°58.3'
22	194°45.8'	N 5°10.4'	17°32.9'	S 4°02.3'	304°51.3'	S 22°00.6'	130°03.6'	N 23°58.4'
23	209°46.2'	N 5°11.1'	32°35.5'	S 4°02.3'	319°54.0'	S 22°00.6'	145°04.2'	N 23°58.5'

Tue May 23, 2017 UTC

UTC	Venus -4.3 v = 0.4' d = 0.6'		Jupiter -2.1 v = 2.6' d = 0.0'		Saturn +0.1 v = 2.6' d = 0.0'		Mars +1.6 v = 0.6' d = 0.1'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	224°46.6'	N 5°11.7'	47°38.1'	S 4°02.2'	334°56.6'	S 22°00.6'	160°04.8'	N 23°58.6'
1	239°46.9'	N 5°12.3'	62°40.7'	S 4°02.2'	349°59.2'	S 22°00.6'	175°05.5'	N 23°58.8'
2	254°47.3'	N 5°13.0'	77°43.2'	S 4°02.1'	5°01.9'	S 22°00.6'	190°06.1'	N 23°58.9'
3	269°47.7'	N 5°13.6'	92°45.8'	S 4°02.1'	20°04.5'	S 22°00.6'	205°06.7'	N 23°59.0'
4	284°48.1'	N 5°14.2'	107°48.4'	S 4°02.1'	35°07.1'	S 22°00.5'	220°07.3'	N 23°59.1'
5	299°48.4'	N 5°14.9'	122°51.0'	S 4°02.0'	50°09.8'	S 22°00.5'	235°08.0'	N 23°59.2'
6	314°48.8'	N 5°15.5'	137°53.6'	S 4°02.0'	65°12.4'	S 22°00.5'	250°08.6'	N 23°59.4'
7	329°49.2'	N 5°16.1'	152°56.2'	S 4°01.9'	80°15.1'	S 22°00.5'	265°09.2'	N 23°59.5'
8	344°49.6'	N 5°16.8'	167°58.8'	S 4°01.9'	95°17.7'	S 22°00.5'	280°09.9'	N 23°59.6'
9	359°49.9'	N 5°17.4'	183°01.4'	S 4°01.9'	110°20.3'	S 22°00.5'	295°10.5'	N 23°59.7'
10	14°50.3'	N 5°18.0'	198°03.9'	S 4°01.8'	125°23.0'	S 22°00.5'	310°11.1'	N 23°59.8'
11	29°50.7'	N 5°18.7'	213°06.5'	S 4°01.8'	140°25.6'	S 22°00.5'	325°11.8'	N 23°60.0'
12	44°51.0'	N 5°19.3'	228°09.1'	S 4°01.7'	155°28.2'	S 22°00.5'	340°12.4'	N 24°00.1'
13	59°51.4'	N 5°19.9'	243°11.7'	S 4°01.7'	170°30.9'	S 22°00.5'	355°13.0'	N 24°00.2'
14	74°51.8'	N 5°20.6'	258°14.3'	S 4°01.7'	185°33.5'	S 22°00.5'	10°13.6'	N 24°00.3'
15	89°52.1'	N 5°21.2'	273°16.9'	S 4°01.6'	200°36.2'	S 22°00.5'	25°14.3'	N 24°00.4'
16	104°52.5'	N 5°21.8'	288°19.5'	S 4°01.6'	215°38.8'	S 22°00.5'	40°14.9'	N 24°00.6'
17	119°52.9'	N 5°22.5'	303°22.0'	S 4°01.5'	230°41.4'	S 22°00.5'	55°15.5'	N 24°00.7'
18	134°53.2'	N 5°23.1'	318°24.6'	S 4°01.5'	245°44.1'	S 22°00.5'	70°16.2'	N 24°00.8'
19	149°53.6'	N 5°23.8'	333°27.2'	S 4°01.5'	260°46.7'	S 22°00.5'	85°16.8'	N 24°00.9'
20	164°54.0'	N 5°24.4'	348°29.8'	S 4°01.4'	275°49.3'	S 22°00.5'	100°17.4'	N 24°01.0'
21	179°54.3'	N 5°25.0'	3°32.4'	S 4°01.4'	290°52.0'	S 22°00.5'	115°18.1'	N 24°01.1'
22	194°54.7'	N 5°25.7'	18°35.0'	S 4°01.3'	305°54.6'	S 22°00.5'	130°18.7'	N 24°01.3'
23	209°55.0'	N 5°26.3'	33°37.5'	S 4°01.3'	320°57.3'	S 22°00.5'	145°19.3'	N 24°01.4'

Wed May 24, 2017 UTC

UTC	Venus -4.3 v = 0.3' d = 0.7'		Jupiter -2.1 v = 2.6' d = 0.0'		Saturn +0.1 v = 2.6' d = 0.0'		Mars +1.6 v = 0.6' d = 0.1'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	224°55.4'	N 5°27.0'	48°40.1'	S 4°01.3'	335°59.9'	S 22°00.5'	160°19.9'	N 24°01.5'
1	239°55.8'	N 5°27.6'	63°42.7'	S 4°01.2'	351°02.5'	S 22°00.5'	175°20.6'	N 24°01.6'
2	254°56.1'	N 5°28.3'	78°45.3'	S 4°01.2'	6°05.2'	S 22°00.5'	190°21.2'	N 24°01.7'
3	269°56.5'	N 5°28.9'	93°47.9'	S 4°01.1'	21°07.8'	S 22°00.5'	205°21.8'	N 24°01.8'
4	284°56.8'	N 5°29.6'	108°50.5'	S 4°01.1'	36°10.4'	S 22°00.4'	220°22.5'	N 24°02.0'
5	299°57.2'	N 5°30.2'	123°53.0'	S 4°01.1'	51°13.1'	S 22°00.4'	235°23.1'	N 24°02.1'
6	314°57.5'	N 5°30.8'	138°55.6'	S 4°01.0'	66°15.7'	S 22°00.4'	250°23.7'	N 24°02.2'
7	329°57.9'	N 5°31.5'	153°58.2'	S 4°01.0'	81°18.4'	S 22°00.4'	265°24.4'	N 24°02.3'
8	344°58.2'	N 5°32.1'	169°00.8'	S 4°01.0'	96°21.0'	S 22°00.4'	280°25.0'	N 24°02.4'
9	359°58.6'	N 5°32.8'	184°03.4'	S 4°00.9'	111°23.6'	S 22°00.4'	295°25.6'	N 24°02.5'
10	14°58.9'	N 5°33.4'	199°05.9'	S 4°00.9'	126°26.3'	S 22°00.4'	310°26.2'	N 24°02.6'
11	29°59.3'	N 5°34.1'	214°08.5'	S 4°00.8'	141°28.9'	S 22°00.4'	325°26.9'	N 24°02.7'
12	44°59.6'	N 5°34.7'	229°11.1'	S 4°00.8'	156°31.6'	S 22°00.4'	340°27.5'	N 24°02.8'
13	59°60.0'	N 5°35.4'	244°13.7'	S 4°00.8'	171°34.2'	S 22°00.4'	355°28.1'	N 24°03.0'
14	75°00.3'	N 5°36.0'	259°16.2'	S 4°00.7'	186°36.8'	S 22°00.4'	10°28.8'	N 24°03.1'
15	90°00.7'	N 5°36.7'	274°18.8'	S 4°00.7'	201°39.5'	S 22°00.4'	25°29.4'	N 24°03.2'
16	105°01.0'	N 5°37.3'	289°21.4'	S 4°00.7'	216°42.1'	S 22°00.4'	40°30.0'	N 24°03.3'
17	120°01.4'	N 5°38.0'	304°24.0'	S 4°00.6'	231°44.8'	S 22°00.4'	55°30.7'	N 24°03.4'
18	135°01.7'	N 5°38.6'	319°26.6'	S 4°00.6'	246°47.4'	S 22°00.4'	70°31.3'	N 24°03.5'
19	150°02.0'	N 5°39.3'	334°29.1'	S 4°00.5'	261°50.0'	S 22°00.4'	85°31.9'	N 24°03.6'
20	165°02.4'	N 5°40.0'	349°31.7'	S 4°00.5'	276°52.7'	S 22°00.4'	100°32.6'	N 24°03.7'
21	180°02.7'	N 5°40.6'	4°34.3'	S 4°00.5'	291°55.3'	S 22°00.4'	115°33.2'	N 24°03.8'
22	195°03.1'	N 5°41.3'	19°36.9'	S 4°00.4'	306°58.0'	S 22°00.4'	130°33.8'	N 24°03.9'
23	210°03.4'	N 5°41.9'	34°39.4'	S 4°00.4'	322°00.6'	S 22°00.4'	145°34.4'	N 24°04.0'

Thu May 25, 2017 UTC

UTC	Venus -4.3		Jupiter -2.1		Saturn +0.1		Mars +1.6	
	v = 0.3' d = 0.7'		v = 2.6' d = 0.0'		v = 2.6' d = 0.0'		v = 0.6' d = 0.1'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	225°03.7'	N 5°42.6'	49°42.0'	S 4°00.4'	337°03.2'	S 22°00.4'	160°35.1'	N 24°04.1'
1	240°04.1'	N 5°43.2'	64°44.6'	S 4°00.3'	352°05.9'	S 22°00.4'	175°35.7'	N 24°04.3'
2	255°04.4'	N 5°43.9'	79°47.2'	S 4°00.3'	7°08.5'	S 22°00.4'	190°36.3'	N 24°04.4'
3	270°04.7'	N 5°44.5'	94°49.7'	S 4°00.3'	22°11.2'	S 22°00.4'	205°37.0'	N 24°04.5'
4	285°05.1'	N 5°45.2'	109°52.3'	S 4°00.2'	37°13.8'	S 22°00.3'	220°37.6'	N 24°04.6'
5	300°05.4'	N 5°45.9'	124°54.9'	S 4°00.2'	52°16.4'	S 22°00.3'	235°38.2'	N 24°04.7'
6	315°05.7'	N 5°46.5'	139°57.5'	S 4°00.2'	67°19.1'	S 22°00.3'	250°38.9'	N 24°04.8'
7	330°06.1'	N 5°47.2'	155°00.0'	S 4°00.1'	82°21.7'	S 22°00.3'	265°39.5'	N 24°04.9'
8	345°06.4'	N 5°47.8'	170°02.6'	S 4°00.1'	97°24.4'	S 22°00.3'	280°40.1'	N 24°05.0'
9	0°06.7'	N 5°48.5'	185°05.2'	S 4°00.0'	112°27.0'	S 22°00.3'	295°40.7'	N 24°05.1'
10	15°07.0'	N 5°49.2'	200°07.8'	S 4°00.0'	127°29.6'	S 22°00.3'	310°41.4'	N 24°05.2'
11	30°07.4'	N 5°49.8'	215°10.3'	S 3°60.0'	142°32.3'	S 22°00.3'	325°42.0'	N 24°05.3'
12	45°07.7'	N 5°50.5'	230°12.9'	S 3°59.9'	157°34.9'	S 22°00.3'	340°42.6'	N 24°05.4'
13	60°08.0'	N 5°51.2'	245°15.5'	S 3°59.9'	172°37.6'	S 22°00.3'	355°43.3'	N 24°05.5'
14	75°08.4'	N 5°51.8'	260°18.1'	S 3°59.9'	187°40.2'	S 22°00.3'	10°43.9'	N 24°05.6'
15	90°08.7'	N 5°52.5'	275°20.6'	S 3°59.8'	202°42.8'	S 22°00.3'	25°44.5'	N 24°05.7'
16	105°09.0'	N 5°53.1'	290°23.2'	S 3°59.8'	217°45.5'	S 22°00.3'	40°45.2'	N 24°05.8'
17	120°09.3'	N 5°53.8'	305°25.8'	S 3°59.8'	232°48.1'	S 22°00.3'	55°45.8'	N 24°05.9'
18	135°09.6'	N 5°54.5'	320°28.3'	S 3°59.7'	247°50.8'	S 22°00.3'	70°46.4'	N 24°06.0'
19	150°10.0'	N 5°55.1'	335°30.9'	S 3°59.7'	262°53.4'	S 22°00.3'	85°47.1'	N 24°06.1'
20	165°10.3'	N 5°55.8'	350°33.5'	S 3°59.7'	277°56.1'	S 22°00.3'	100°47.7'	N 24°06.2'
21	180°10.6'	N 5°56.5'	5°36.0'	S 3°59.6'	292°58.7'	S 22°00.3'	115°48.3'	N 24°06.3'
22	195°10.9'	N 5°57.1'	20°38.6'	S 3°59.6'	308°01.3'	S 22°00.3'	130°48.9'	N 24°06.4'
23	210°11.2'	N 5°57.8'	35°41.2'	S 3°59.6'	323°04.0'	S 22°00.3'	145°49.6'	N 24°06.5'

Fri May 26, 2017 UTC

UTC	Venus -4.3		Jupiter -2.1		Saturn +0.1		Mars +1.6	
	v = 0.3' d = 0.7'		v = 2.6' d = 0.0'		v = 2.6' d = 0.0'		v = 0.6' d = 0.1'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	225°11.6'	N 5°58.5'	50°43.8'	S 3°59.5'	338°06.6'	S 22°00.3'	160°50.2'	N 24°06.6'
1	240°11.9'	N 5°59.1'	65°46.3'	S 3°59.5'	353°09.3'	S 22°00.3'	175°50.8'	N 24°06.7'
2	255°12.2'	N 5°59.8'	80°48.9'	S 3°59.5'	8°11.9'	S 22°00.3'	190°51.5'	N 24°06.8'
3	270°12.5'	N 6°00.5'	95°51.5'	S 3°59.4'	23°14.6'	S 22°00.3'	205°52.1'	N 24°06.9'
4	285°12.8'	N 6°01.2'	110°54.0'	S 3°59.4'	38°17.2'	S 22°00.2'	220°52.7'	N 24°07.0'
5	300°13.1'	N 6°01.8'	125°56.6'	S 3°59.4'	53°19.8'	S 22°00.2'	235°53.4'	N 24°07.1'
6	315°13.4'	N 6°02.5'	140°59.2'	S 3°59.3'	68°22.5'	S 22°00.2'	250°54.0'	N 24°07.2'
7	330°13.7'	N 6°03.2'	156°01.7'	S 3°59.3'	83°25.1'	S 22°00.2'	265°54.6'	N 24°07.3'
8	345°14.0'	N 6°03.8'	171°04.3'	S 3°59.3'	98°27.8'	S 22°00.2'	280°55.3'	N 24°07.4'
9	0°14.4'	N 6°04.5'	186°06.9'	S 3°59.3'	113°30.4'	S 22°00.2'	295°55.9'	N 24°07.5'
10	15°14.7'	N 6°05.2'	201°09.4'	S 3°59.2'	128°33.1'	S 22°00.2'	310°56.5'	N 24°07.6'
11	30°15.0'	N 6°05.9'	216°12.0'	S 3°59.2'	143°35.7'	S 22°00.2'	325°57.1'	N 24°07.6'
12	45°15.3'	N 6°06.5'	231°14.6'	S 3°59.2'	158°38.3'	S 22°00.2'	340°57.8'	N 24°07.7'
13	60°15.6'	N 6°07.2'	246°17.1'	S 3°59.1'	173°41.0'	S 22°00.2'	355°58.4'	N 24°07.8'
14	75°15.9'	N 6°07.9'	261°19.7'	S 3°59.1'	188°43.6'	S 22°00.2'	10°59.0'	N 24°07.9'
15	90°16.2'	N 6°08.6'	276°22.3'	S 3°59.1'	203°46.3'	S 22°00.2'	25°59.7'	N 24°08.0'
16	105°16.5'	N 6°09.2'	291°24.8'	S 3°59.0'	218°48.9'	S 22°00.2'	41°00.3'	N 24°08.1'
17	120°16.8'	N 6°09.9'	306°27.4'	S 3°59.0'	233°51.6'	S 22°00.2'	56°00.9'	N 24°08.2'
18	135°17.1'	N 6°10.6'	321°29.9'	S 3°59.0'	248°54.2'	S 22°00.2'	71°01.6'	N 24°08.3'
19	150°17.4'	N 6°11.3'	336°32.5'	S 3°58.9'	263°56.8'	S 22°00.2'	86°02.2'	N 24°08.4'
20	165°17.7'	N 6°11.9'	351°35.1'	S 3°58.9'	278°59.5'	S 22°00.2'	101°02.8'	N 24°08.5'
21	180°18.0'	N 6°12.6'	6°37.6'	S 3°58.9'	294°02.1'	S 22°00.2'	116°03.5'	N 24°08.6'
22	195°18.3'	N 6°13.3'	21°40.2'	S 3°58.9'	309°04.8'	S 22°00.2'	131°04.1'	N 24°08.7'
23	210°18.6'	N 6°14.0'	36°42.8'	S 3°58.8'	324°07.4'	S 22°00.2'	146°04.7'	N 24°08.7'

Sat May 27, 2017 UTC

UTC	Venus -4.3		Jupiter -2.1		Saturn +0.1		Mars +1.6	
	v = 0.3' d = 0.7'		v = 2.6' d = 0.0'		v = 2.6' d = 0.0'		v = 0.6' d = 0.1'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	225°18.9'	N 6°14.7'	51°45.3'	S 3°58.8'	339°10.1'	S 22°00.2'	161°05.4'	N 24°08.8'
1	240°19.2'	N 6°15.3'	66°47.9'	S 3°58.8'	354°12.7'	S 22°00.2'	176°06.0'	N 24°08.9'
2	255°19.5'	N 6°16.0'	81°50.5'	S 3°58.7'	9°15.4'	S 22°00.2'	191°06.6'	N 24°09.0'
3	270°19.8'	N 6°16.7'	96°53.0'	S 3°58.7'	24°18.0'	S 22°00.2'	206°07.2'	N 24°09.1'
4	285°20.1'	N 6°17.4'	111°55.6'	S 3°58.7'	39°20.6'	S 22°00.1'	221°07.9'	N 24°09.2'
5	300°20.4'	N 6°18.1'	126°58.1'	S 3°58.6'	54°23.3'	S 22°00.1'	236°08.5'	N 24°09.3'
6	315°20.6'	N 6°18.7'	142°00.7'	S 3°58.6'	69°25.9'	S 22°00.1'	251°09.1'	N 24°09.4'
7	330°20.9'	N 6°19.4'	157°03.3'	S 3°58.6'	84°28.6'	S 22°00.1'	266°09.8'	N 24°09.4'
8	345°21.2'	N 6°20.1'	172°05.8'	S 3°58.6'	99°31.2'	S 22°00.1'	281°10.4'	N 24°09.5'
9	0°21.5'	N 6°20.8'	187°08.4'	S 3°58.5'	114°33.9'	S 22°00.1'	296°11.0'	N 24°09.6'
10	15°21.8'	N 6°21.5'	202°10.9'	S 3°58.5'	129°36.5'	S 22°00.1'	311°11.7'	N 24°09.7'
11	30°22.1'	N 6°22.2'	217°13.5'	S 3°58.5'	144°39.2'	S 22°00.1'	326°12.3'	N 24°09.8'
12	45°22.4'	N 6°22.8'	232°16.1'	S 3°58.4'	159°41.8'	S 22°00.1'	341°12.9'	N 24°09.9'
13	60°22.7'	N 6°23.5'	247°18.6'	S 3°58.4'	174°44.4'	S 22°00.1'	356°13.6'	N 24°10.0'
14	75°22.9'	N 6°24.2'	262°21.2'	S 3°58.4'	189°47.1'	S 22°00.1'	11°14.2'	N 24°10.0'
15	90°23.2'	N 6°24.9'	277°23.7'	S 3°58.4'	204°49.7'	S 22°00.1'	26°14.8'	N 24°10.1'
16	105°23.5'	N 6°25.6'	292°26.3'	S 3°58.3'	219°52.4'	S 22°00.1'	41°15.5'	N 24°10.2'
17	120°23.8'	N 6°26.3'	307°28.8'	S 3°58.3'	234°55.0'	S 22°00.1'	56°16.1'	N 24°10.3'
18	135°24.1'	N 6°27.0'	322°31.4'	S 3°58.3'	249°57.7'	S 22°00.1'	71°16.7'	N 24°10.4'
19	150°24.4'	N 6°27.7'	337°34.0'	S 3°58.2'	265°00.3'	S 22°00.1'	86°17.4'	N 24°10.5'
20	165°24.6'	N 6°28.3'	352°36.5'	S 3°58.2'	280°03.0'	S 22°00.1'	101°18.0'	N 24°10.5'
21	180°24.9'	N 6°29.0'	7°39.1'	S 3°58.2'	295°05.6'	S 22°00.1'	116°18.6'	N 24°10.6'
22	195°25.2'	N 6°29.7'	22°41.6'	S 3°58.2'	310°08.3'	S 22°00.1'	131°19.2'	N 24°10.7'
23	210°25.5'	N 6°30.4'	37°44.2'	S 3°58.1'	325°10.9'	S 22°00.1'	146°19.9'	N 24°10.8'

Sun May 28, 2017 UTC

UTC	Venus -4.3		Jupiter -2.1		Saturn +0.1		Mars +1.6	
	v = 0.3' d = 0.7'		v = 2.6' d = 0.0'		v = 2.6' d = 0.0'		v = 0.6' d = 0.1'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	225°25.7'	N 6°31.1'	52°46.7'	S 3°58.1'	340°13.5'	S 22°00.1'	161°20.5'	N 24°10.9'
1	240°26.0'	N 6°31.8'	67°49.3'	S 3°58.1'	355°16.2'	S 22°00.1'	176°21.1'	N 24°10.9'
2	255°26.3'	N 6°32.5'	82°51.8'	S 3°58.1'	10°18.8'	S 22°00.1'	191°21.8'	N 24°11.0'
3	270°26.6'	N 6°33.2'	97°54.4'	S 3°58.0'	25°21.5'	S 22°00.1'	206°22.4'	N 24°11.1'
4	285°26.8'	N 6°33.9'	112°57.0'	S 3°58.0'	40°24.1'	S 22°00.0'	221°23.0'	N 24°11.2'
5	300°27.1'	N 6°34.6'	127°59.5'	S 3°58.0'	55°26.8'	S 22°00.0'	236°23.7'	N 24°11.3'
6	315°27.4'	N 6°35.3'	143°02.1'	S 3°57.9'	70°29.4'	S 22°00.0'	251°24.3'	N 24°11.3'
7	330°27.7'	N 6°35.9'	158°04.6'	S 3°57.9'	85°32.1'	S 22°00.0'	266°24.9'	N 24°11.4'
8	345°27.9'	N 6°36.6'	173°07.2'	S 3°57.9'	100°34.7'	S 22°00.0'	281°25.6'	N 24°11.5'
9	0°28.2'	N 6°37.3'	188°09.7'	S 3°57.9'	115°37.4'	S 22°00.0'	296°26.2'	N 24°11.6'
10	15°28.5'	N 6°38.0'	203°12.3'	S 3°57.8'	130°40.0'	S 22°00.0'	311°26.8'	N 24°11.6'
11	30°28.7'	N 6°38.7'	218°14.8'	S 3°57.8'	145°42.7'	S 22°00.0'	326°27.5'	N 24°11.7'
12	45°29.0'	N 6°39.4'	233°17.4'	S 3°57.8'	160°45.3'	S 22°00.0'	341°28.1'	N 24°11.8'
13	60°29.3'	N 6°40.1'	248°19.9'	S 3°57.8'	175°48.0'	S 22°00.0'	356°28.7'	N 24°11.9'
14	75°29.5'	N 6°40.8'	263°22.5'	S 3°57.7'	190°50.6'	S 22°00.0'	11°29.4'	N 24°11.9'
15	90°29.8'	N 6°41.5'	278°25.0'	S 3°57.7'	205°53.2'	S 21°60.0'	26°30.0'	N 24°12.0'
16	105°30.1'	N 6°42.2'	293°27.6'	S 3°57.7'	220°55.9'	S 21°60.0'	41°30.6'	N 24°12.1'
17	120°30.3'	N 6°42.9'	308°30.1'	S 3°57.7'	235°58.5'	S 21°60.0'	56°31.3'	N 24°12.2'
18	135°30.6'	N 6°43.6'	323°32.7'	S 3°57.6'	251°01.2'	S 21°60.0'	71°31.9'	N 24°12.2'
19	150°30.8'	N 6°44.3'	338°35.2'	S 3°57.6'	266°03.8'	S 21°60.0'	86°32.5'	N 24°12.3'
20	165°31.1'	N 6°45.0'	353°37.8'	S 3°57.6'	281°06.5'	S 21°60.0'	101°33.2'	N 24°12.4'
21	180°31.4'	N 6°45.7'	8°40.3'	S 3°57.6'	296°09.1'	S 21°60.0'	116°33.8'	N 24°12.5'
22	195°31.6'	N 6°46.4'	23°42.9'	S 3°57.5'	311°11.8'	S 21°60.0'	131°34.4'	N 24°12.5'
23	210°31.9'	N 6°47.1'	38°45.4'	S 3°57.5'	326°14.4'	S 21°60.0'	146°35.0'	N 24°12.6'

Mon May 29, 2017 UTC

UTC	Venus -4.3		Jupiter -2.1		Saturn +0.1		Mars +1.6	
	v = 0.2' d = 0.7'		v = 2.5' d = 0.0'		v = 2.6' d = 0.0'		v = 0.6' d = 0.1'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	225°32.1'	N 6°47.8'	53°48.0'	S 3°57.5'	341°17.1'	S 21°60.0'	161°35.7'	N 24°12.7'
1	240°32.4'	N 6°48.5'	68°50.5'	S 3°57.5'	356°19.7'	S 21°60.0'	176°36.3'	N 24°12.8'
2	255°32.6'	N 6°49.2'	83°53.1'	S 3°57.4'	11°22.4'	S 21°60.0'	191°36.9'	N 24°12.8'
3	270°32.9'	N 6°49.9'	98°55.6'	S 3°57.4'	26°25.0'	S 21°59.9'	206°37.6'	N 24°12.9'
4	285°33.2'	N 6°50.6'	113°58.2'	S 3°57.4'	41°27.7'	S 21°59.9'	221°38.2'	N 24°13.0'
5	300°33.4'	N 6°51.3'	129°00.7'	S 3°57.4'	56°30.3'	S 21°59.9'	236°38.8'	N 24°13.0'
6	315°33.7'	N 6°52.0'	144°03.3'	S 3°57.4'	71°33.0'	S 21°59.9'	251°39.5'	N 24°13.1'
7	330°33.9'	N 6°52.7'	159°05.8'	S 3°57.3'	86°35.6'	S 21°59.9'	266°40.1'	N 24°13.2'
8	345°34.2'	N 6°53.4'	174°08.4'	S 3°57.3'	101°38.3'	S 21°59.9'	281°40.7'	N 24°13.2'
9	0°34.4'	N 6°54.1'	189°10.9'	S 3°57.3'	116°40.9'	S 21°59.9'	296°41.4'	N 24°13.3'
10	15°34.7'	N 6°54.8'	204°13.5'	S 3°57.3'	131°43.6'	S 21°59.9'	311°42.0'	N 24°13.4'
11	30°34.9'	N 6°55.5'	219°16.0'	S 3°57.2'	146°46.2'	S 21°59.9'	326°42.6'	N 24°13.4'
12	45°35.2'	N 6°56.2'	234°18.5'	S 3°57.2'	161°48.9'	S 21°59.9'	341°43.3'	N 24°13.5'
13	60°35.4'	N 6°56.9'	249°21.1'	S 3°57.2'	176°51.5'	S 21°59.9'	356°43.9'	N 24°13.6'
14	75°35.7'	N 6°57.6'	264°23.6'	S 3°57.2'	191°54.2'	S 21°59.9'	11°44.5'	N 24°13.7'
15	90°35.9'	N 6°58.3'	279°26.2'	S 3°57.1'	206°56.8'	S 21°59.9'	26°45.2'	N 24°13.7'
16	105°36.1'	N 6°59.1'	294°28.7'	S 3°57.1'	221°59.4'	S 21°59.9'	41°45.8'	N 24°13.8'
17	120°36.4'	N 6°59.8'	309°31.3'	S 3°57.1'	237°02.1'	S 21°59.9'	56°46.4'	N 24°13.8'
18	135°36.6'	N 7°00.5'	324°33.8'	S 3°57.1'	252°04.7'	S 21°59.9'	71°47.1'	N 24°13.9'
19	150°36.9'	N 7°01.2'	339°36.4'	S 3°57.1'	267°07.4'	S 21°59.9'	86°47.7'	N 24°14.0'
20	165°37.1'	N 7°01.9'	354°38.9'	S 3°57.0'	282°10.0'	S 21°59.9'	101°48.3'	N 24°14.0'
21	180°37.4'	N 7°02.6'	9°41.4'	S 3°57.0'	297°12.7'	S 21°59.9'	116°49.0'	N 24°14.1'
22	195°37.6'	N 7°03.3'	24°44.0'	S 3°57.0'	312°15.3'	S 21°59.9'	131°49.6'	N 24°14.2'
23	210°37.8'	N 7°04.0'	39°46.5'	S 3°57.0'	327°18.0'	S 21°59.9'	146°50.2'	N 24°14.2'

Tue May 30, 2017 UTC

UTC	Venus -4.3		Jupiter -2.1		Saturn +0.1		Mars +1.6	
	v = 0.2' d = 0.7'		v = 2.5' d = 0.0'		v = 2.7' d = 0.0'		v = 0.6' d = 0.1'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	225°38.1'	N 7°04.7'	54°49.1'	S 3°57.0'	342°20.6'	S 21°59.9'	161°50.9'	N 24°14.3'
1	240°38.3'	N 7°05.4'	69°51.6'	S 3°56.9'	357°23.3'	S 21°59.9'	176°51.5'	N 24°14.4'
2	255°38.5'	N 7°06.1'	84°54.1'	S 3°56.9'	12°25.9'	S 21°59.9'	191°52.1'	N 24°14.4'
3	270°38.8'	N 7°06.8'	99°56.7'	S 3°56.9'	27°28.6'	S 21°59.8'	206°52.8'	N 24°14.5'
4	285°39.0'	N 7°07.6'	114°59.2'	S 3°56.9'	42°31.2'	S 21°59.8'	221°53.4'	N 24°14.5'
5	300°39.3'	N 7°08.3'	130°01.8'	S 3°56.9'	57°33.9'	S 21°59.8'	236°54.0'	N 24°14.6'
6	315°39.5'	N 7°09.0'	145°04.3'	S 3°56.8'	72°36.5'	S 21°59.8'	251°54.7'	N 24°14.7'
7	330°39.7'	N 7°09.7'	160°06.9'	S 3°56.8'	87°39.2'	S 21°59.8'	266°55.3'	N 24°14.7'
8	345°40.0'	N 7°10.4'	175°09.4'	S 3°56.8'	102°41.8'	S 21°59.8'	281°55.9'	N 24°14.8'
9	0°40.2'	N 7°11.1'	190°11.9'	S 3°56.8'	117°44.5'	S 21°59.8'	296°56.6'	N 24°14.8'
10	15°40.4'	N 7°11.8'	205°14.5'	S 3°56.8'	132°47.1'	S 21°59.8'	311°57.2'	N 24°14.9'
11	30°40.6'	N 7°12.5'	220°17.0'	S 3°56.7'	147°49.8'	S 21°59.8'	326°57.8'	N 24°15.0'
12	45°40.9'	N 7°13.3'	235°19.5'	S 3°56.7'	162°52.4'	S 21°59.8'	341°58.5'	N 24°15.0'
13	60°41.1'	N 7°14.0'	250°22.1'	S 3°56.7'	177°55.1'	S 21°59.8'	356°59.1'	N 24°15.1'
14	75°41.3'	N 7°14.7'	265°24.6'	S 3°56.7'	192°57.7'	S 21°59.8'	11°59.7'	N 24°15.1'
15	90°41.6'	N 7°15.4'	280°27.2'	S 3°56.7'	208°00.4'	S 21°59.8'	27°00.4'	N 24°15.2'
16	105°41.8'	N 7°16.1'	295°29.7'	S 3°56.6'	223°03.0'	S 21°59.8'	42°01.0'	N 24°15.3'
17	120°42.0'	N 7°16.8'	310°32.2'	S 3°56.6'	238°05.7'	S 21°59.8'	57°01.6'	N 24°15.3'
18	135°42.2'	N 7°17.5'	325°34.8'	S 3°56.6'	253°08.3'	S 21°59.8'	72°02.3'	N 24°15.4'
19	150°42.5'	N 7°18.3'	340°37.3'	S 3°56.6'	268°11.0'	S 21°59.8'	87°02.9'	N 24°15.4'
20	165°42.7'	N 7°19.0'	355°39.8'	S 3°56.6'	283°13.6'	S 21°59.8'	102°03.5'	N 24°15.5'
21	180°42.9'	N 7°19.7'	10°42.4'	S 3°56.5'	298°16.3'	S 21°59.8'	117°04.2'	N 24°15.5'
22	195°43.1'	N 7°20.4'	25°44.9'	S 3°56.5'	313°18.9'	S 21°59.8'	132°04.8'	N 24°15.6'
23	210°43.3'	N 7°21.1'	40°47.4'	S 3°56.5'	328°21.6'	S 21°59.8'	147°05.5'	N 24°15.6'

Wed May 31, 2017 UTC

UTC	Venus -4.3 v = 0.2' d = 0.7'		Jupiter -2.1 v = 2.5' d = 0.0'		Saturn +0.1 v = 2.7' d = 0.0'		Mars +1.6 v = 0.6' d = 0.0'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	225°43.6'	N 7°21.9'	55°50.0'	S 3°56.5'	343°24.3'	S 21°59.8'	162°06.1'	N 24°15.7'
1	240°43.8'	N 7°22.6'	70°52.5'	S 3°56.5'	358°26.9'	S 21°59.8'	177°06.7'	N 24°15.8'
2	255°44.0'	N 7°23.3'	85°55.1'	S 3°56.4'	13°29.6'	S 21°59.7'	192°07.4'	N 24°15.8'
3	270°44.2'	N 7°24.0'	100°57.6'	S 3°56.4'	28°32.2'	S 21°59.7'	207°08.0'	N 24°15.9'
4	285°44.4'	N 7°24.7'	116°00.1'	S 3°56.4'	43°34.9'	S 21°59.7'	222°08.6'	N 24°15.9'
5	300°44.7'	N 7°25.4'	131°02.7'	S 3°56.4'	58°37.5'	S 21°59.7'	237°09.3'	N 24°16.0'
6	315°44.9'	N 7°26.2'	146°05.2'	S 3°56.4'	73°40.2'	S 21°59.7'	252°09.9'	N 24°16.0'
7	330°45.1'	N 7°26.9'	161°07.7'	S 3°56.4'	88°42.8'	S 21°59.7'	267°10.5'	N 24°16.1'
8	345°45.3'	N 7°27.6'	176°10.3'	S 3°56.3'	103°45.5'	S 21°59.7'	282°11.2'	N 24°16.1'
9	0°45.5'	N 7°28.3'	191°12.8'	S 3°56.3'	118°48.1'	S 21°59.7'	297°11.8'	N 24°16.2'
10	15°45.7'	N 7°29.0'	206°15.3'	S 3°56.3'	133°50.8'	S 21°59.7'	312°12.4'	N 24°16.2'
11	30°45.9'	N 7°29.8'	221°17.8'	S 3°56.3'	148°53.4'	S 21°59.7'	327°13.1'	N 24°16.3'
12	45°46.1'	N 7°30.5'	236°20.4'	S 3°56.3'	163°56.1'	S 21°59.7'	342°13.7'	N 24°16.3'
13	60°46.4'	N 7°31.2'	251°22.9'	S 3°56.3'	178°58.7'	S 21°59.7'	357°14.3'	N 24°16.4'
14	75°46.6'	N 7°31.9'	266°25.4'	S 3°56.2'	194°01.4'	S 21°59.7'	12°15.0'	N 24°16.4'
15	90°46.8'	N 7°32.7'	281°28.0'	S 3°56.2'	209°04.0'	S 21°59.7'	27°15.6'	N 24°16.5'
16	105°47.0'	N 7°33.4'	296°30.5'	S 3°56.2'	224°06.7'	S 21°59.7'	42°16.2'	N 24°16.5'
17	120°47.2'	N 7°34.1'	311°33.0'	S 3°56.2'	239°09.3'	S 21°59.7'	57°16.9'	N 24°16.6'
18	135°47.4'	N 7°34.8'	326°35.6'	S 3°56.2'	254°12.0'	S 21°59.7'	72°17.5'	N 24°16.6'
19	150°47.6'	N 7°35.6'	341°38.1'	S 3°56.2'	269°14.6'	S 21°59.7'	87°18.1'	N 24°16.7'
20	165°47.8'	N 7°36.3'	356°40.6'	S 3°56.1'	284°17.3'	S 21°59.7'	102°18.8'	N 24°16.7'
21	180°48.0'	N 7°37.0'	11°43.1'	S 3°56.1'	299°19.9'	S 21°59.7'	117°19.4'	N 24°16.8'
22	195°48.2'	N 7°37.7'	26°45.7'	S 3°56.1'	314°22.6'	S 21°59.7'	132°20.1'	N 24°16.8'
23	210°48.4'	N 7°38.5'	41°48.2'	S 3°56.1'	329°25.2'	S 21°59.7'	147°20.7'	N 24°16.9'