

Wed Aug 1, 2018 UTC

UTC	Venus -4.1		Jupiter -1.9		Saturn +0.2		Mars -2.9	
	v = 0.1' d = 1.2'		v = 2.3' d = 0.1'		v = 2.6' d = 0.0'		v = 3.2' d = 0.2'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	135°12.8'	N 2°30.7'	87°41.7'	S 15°07.1'	35°41.7'	S 22°35.9'	2°45.4'	S 25°54.0'
1	150°12.9'	N 2°29.4'	102°44.0'	S 15°07.1'	50°44.3'	S 22°35.9'	17°48.6'	S 25°54.2'
2	165°13.1'	N 2°28.2'	117°46.3'	S 15°07.2'	65°46.9'	S 22°35.9'	32°51.8'	S 25°54.4'
3	180°13.2'	N 2°27.0'	132°48.6'	S 15°07.3'	80°49.5'	S 22°35.9'	47°54.9'	S 25°54.6'
4	195°13.4'	N 2°25.8'	147°50.9'	S 15°07.3'	95°52.1'	S 22°35.9'	62°58.1'	S 25°54.8'
5	210°13.5'	N 2°24.5'	162°53.2'	S 15°07.4'	110°54.7'	S 22°35.9'	78°01.3'	S 25°55.0'
6	225°13.6'	N 2°23.3'	177°55.5'	S 15°07.4'	125°57.3'	S 22°35.9'	93°04.5'	S 25°55.1'
7	240°13.8'	N 2°22.1'	192°57.9'	S 15°07.5'	140°60.0'	S 22°35.9'	108°07.6'	S 25°55.3'
8	255°13.9'	N 2°20.8'	208°00.2'	S 15°07.5'	156°02.6'	S 22°35.9'	123°10.8'	S 25°55.5'
9	270°14.1'	N 2°19.6'	223°02.5'	S 15°07.6'	171°05.2'	S 22°35.9'	138°14.0'	S 25°55.7'
10	285°14.2'	N 2°18.4'	238°04.8'	S 15°07.7'	186°07.8'	S 22°36.0'	153°17.2'	S 25°55.9'
11	300°14.3'	N 2°17.2'	253°07.1'	S 15°07.7'	201°10.4'	S 22°36.0'	168°20.3'	S 25°56.1'
12	315°14.5'	N 2°15.9'	268°09.4'	S 15°07.8'	216°13.0'	S 22°36.0'	183°23.5'	S 25°56.2'
13	330°14.6'	N 2°14.7'	283°11.7'	S 15°07.8'	231°15.6'	S 22°36.0'	198°26.7'	S 25°56.4'
14	345°14.8'	N 2°13.5'	298°14.0'	S 15°07.9'	246°18.2'	S 22°36.0'	213°29.9'	S 25°56.6'
15	0°14.9'	N 2°12.2'	313°16.3'	S 15°07.9'	261°20.8'	S 22°36.0'	228°33.0'	S 25°56.8'
16	15°15.1'	N 2°11.0'	328°18.6'	S 15°08.0'	276°23.4'	S 22°36.0'	243°36.2'	S 25°57.0'
17	30°15.2'	N 2°09.8'	343°21.0'	S 15°08.1'	291°26.0'	S 22°36.0'	258°39.4'	S 25°57.1'
18	45°15.3'	N 2°08.6'	358°23.3'	S 15°08.1'	306°28.6'	S 22°36.0'	273°42.6'	S 25°57.3'
19	60°15.5'	N 2°07.3'	13°25.6'	S 15°08.2'	321°31.2'	S 22°36.0'	288°45.7'	S 25°57.5'
20	75°15.6'	N 2°06.1'	28°27.9'	S 15°08.2'	336°33.8'	S 22°36.0'	303°48.9'	S 25°57.7'
21	90°15.8'	N 2°04.9'	43°30.2'	S 15°08.3'	351°36.4'	S 22°36.1'	318°52.1'	S 25°57.9'
22	105°15.9'	N 2°03.6'	58°32.5'	S 15°08.3'	6°39.0'	S 22°36.1'	333°55.2'	S 25°58.0'
23	120°16.1'	N 2°02.4'	73°34.8'	S 15°08.4'	21°41.6'	S 22°36.1'	348°58.4'	S 25°58.2'

Thu Aug 2, 2018 UTC

UTC	Venus -4.2		Jupiter -1.9		Saturn +0.2		Mars -2.9	
	v = 0.2' d = 1.2'		v = 2.3' d = 0.1'		v = 2.6' d = 0.0'		v = 3.2' d = 0.2'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	135°16.2'	N 2°01.2'	88°37.1'	S 15°08.5'	36°44.2'	S 22°36.1'	4°01.6'	S 25°58.4'
1	150°16.4'	N 1°60.0'	103°39.4'	S 15°08.5'	51°46.8'	S 22°36.1'	19°04.8'	S 25°58.6'
2	165°16.5'	N 1°58.7'	118°41.7'	S 15°08.6'	66°49.4'	S 22°36.1'	34°07.9'	S 25°58.7'
3	180°16.7'	N 1°57.5'	133°44.0'	S 15°08.6'	81°52.1'	S 22°36.1'	49°11.1'	S 25°58.9'
4	195°16.8'	N 1°56.3'	148°46.3'	S 15°08.7'	96°54.7'	S 22°36.1'	64°14.3'	S 25°59.1'
5	210°17.0'	N 1°55.0'	163°48.6'	S 15°08.8'	111°57.3'	S 22°36.1'	79°17.4'	S 25°59.3'
6	225°17.1'	N 1°53.8'	178°50.9'	S 15°08.8'	126°59.9'	S 22°36.1'	94°20.6'	S 25°59.4'
7	240°17.3'	N 1°52.6'	193°53.2'	S 15°08.9'	142°02.5'	S 22°36.1'	109°23.8'	S 25°59.6'
8	255°17.4'	N 1°51.3'	208°55.5'	S 15°08.9'	157°05.1'	S 22°36.2'	124°26.9'	S 25°59.8'
9	270°17.6'	N 1°50.1'	223°57.9'	S 15°09.0'	172°07.7'	S 22°36.2'	139°30.1'	S 25°60.0'
10	285°17.7'	N 1°48.9'	239°00.2'	S 15°09.0'	187°10.3'	S 22°36.2'	154°33.3'	S 26°00.1'
11	300°17.9'	N 1°47.7'	254°02.5'	S 15°09.1'	202°12.9'	S 22°36.2'	169°36.4'	S 26°00.3'
12	315°18.1'	N 1°46.4'	269°04.8'	S 15°09.2'	217°15.5'	S 22°36.2'	184°39.6'	S 26°00.5'
13	330°18.2'	N 1°45.2'	284°07.1'	S 15°09.2'	232°18.1'	S 22°36.2'	199°42.8'	S 26°00.7'
14	345°18.4'	N 1°44.0'	299°09.4'	S 15°09.3'	247°20.7'	S 22°36.2'	214°46.0'	S 26°00.8'
15	0°18.5'	N 1°42.7'	314°11.7'	S 15°09.3'	262°23.3'	S 22°36.2'	229°49.1'	S 26°01.0'
16	15°18.7'	N 1°41.5'	329°14.0'	S 15°09.4'	277°25.9'	S 22°36.2'	244°52.3'	S 26°01.2'
17	30°18.8'	N 1°40.3'	344°16.3'	S 15°09.5'	292°28.5'	S 22°36.2'	259°55.5'	S 26°01.3'
18	45°19.0'	N 1°39.0'	359°18.6'	S 15°09.5'	307°31.1'	S 22°36.2'	274°58.6'	S 26°01.5'
19	60°19.2'	N 1°37.8'	14°20.9'	S 15°09.6'	322°33.7'	S 22°36.2'	290°01.8'	S 26°01.7'
20	75°19.3'	N 1°36.6'	29°23.2'	S 15°09.6'	337°36.3'	S 22°36.3'	305°05.0'	S 26°01.8'
21	90°19.5'	N 1°35.4'	44°25.5'	S 15°09.7'	352°38.9'	S 22°36.3'	320°08.1'	S 26°02.0'
22	105°19.6'	N 1°34.1'	59°27.8'	S 15°09.8'	7°41.5'	S 22°36.3'	335°11.3'	S 26°02.2'
23	120°19.8'	N 1°32.9'	74°30.1'	S 15°09.8'	22°44.1'	S 22°36.3'	350°14.4'	S 26°02.3'

Fri Aug 3, 2018 UTC

UTC	Venus -4.2		Jupiter -1.9		Saturn +0.2		Mars -2.9	
	v = 0.2' d = 1.2'		v = 2.3' d = 0.1'		v = 2.6' d = 0.0'		v = 3.2' d = 0.2'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	135°20.0'	N 1°31.7'	89°32.4'	S 15°09.9'	37°46.7'	S 22°36.3'	5°17.6'	S 26°02.5'
1	150°20.1'	N 1°30.4'	104°34.7'	S 15°09.9'	52°49.3'	S 22°36.3'	20°20.8'	S 26°02.7'
2	165°20.3'	N 1°29.2'	119°37.0'	S 15°10.0'	67°51.9'	S 22°36.3'	35°23.9'	S 26°02.8'
3	180°20.4'	N 1°28.0'	134°39.3'	S 15°10.1'	82°54.5'	S 22°36.3'	50°27.1'	S 26°03.0'
4	195°20.6'	N 1°26.8'	149°41.6'	S 15°10.1'	97°57.1'	S 22°36.3'	65°30.3'	S 26°03.2'
5	210°20.8'	N 1°25.5'	164°43.9'	S 15°10.2'	112°59.7'	S 22°36.3'	80°33.4'	S 26°03.3'
6	225°20.9'	N 1°24.3'	179°46.2'	S 15°10.2'	128°02.3'	S 22°36.3'	95°36.6'	S 26°03.5'
7	240°21.1'	N 1°23.1'	194°48.5'	S 15°10.3'	143°04.9'	S 22°36.4'	110°39.7'	S 26°03.7'
8	255°21.3'	N 1°21.8'	209°50.8'	S 15°10.4'	158°07.5'	S 22°36.4'	125°42.9'	S 26°03.8'
9	270°21.4'	N 1°20.6'	224°53.1'	S 15°10.4'	173°10.1'	S 22°36.4'	140°46.1'	S 26°04.0'
10	285°21.6'	N 1°19.4'	239°55.4'	S 15°10.5'	188°12.7'	S 22°36.4'	155°49.2'	S 26°04.2'
11	300°21.8'	N 1°18.1'	254°57.7'	S 15°10.5'	203°15.3'	S 22°36.4'	170°52.4'	S 26°04.3'
12	315°21.9'	N 1°16.9'	269°60.0'	S 15°10.6'	218°17.9'	S 22°36.4'	185°55.6'	S 26°04.5'
13	330°22.1'	N 1°15.7'	285°02.3'	S 15°10.7'	233°20.5'	S 22°36.4'	200°58.7'	S 26°04.6'
14	345°22.3'	N 1°14.5'	300°04.6'	S 15°10.7'	248°23.1'	S 22°36.4'	216°01.9'	S 26°04.8'
15	0°22.4'	N 1°13.2'	315°06.8'	S 15°10.8'	263°25.7'	S 22°36.4'	231°05.0'	S 26°05.0'
16	15°22.6'	N 1°12.0'	330°09.1'	S 15°10.8'	278°28.3'	S 22°36.4'	246°08.2'	S 26°05.1'
17	30°22.8'	N 1°10.8'	345°11.4'	S 15°10.9'	293°30.9'	S 22°36.4'	261°11.3'	S 26°05.3'
18	45°23.0'	N 1°09.5'	0°13.7'	S 15°11.0'	308°33.5'	S 22°36.5'	276°14.5'	S 26°05.4'
19	60°23.1'	N 1°08.3'	15°16.0'	S 15°11.0'	323°36.1'	S 22°36.5'	291°17.7'	S 26°05.6'
20	75°23.3'	N 1°07.1'	30°18.3'	S 15°11.1'	338°38.7'	S 22°36.5'	306°20.8'	S 26°05.7'
21	90°23.5'	N 1°05.8'	45°20.6'	S 15°11.1'	353°41.3'	S 22°36.5'	321°24.0'	S 26°05.9'
22	105°23.7'	N 1°04.6'	60°22.9'	S 15°11.2'	8°43.9'	S 22°36.5'	336°27.1'	S 26°06.1'
23	120°23.8'	N 1°03.4'	75°25.2'	S 15°11.3'	23°46.5'	S 22°36.5'	351°30.3'	S 26°06.2'

Sat Aug 4, 2018 UTC

UTC	Venus -4.2		Jupiter -1.9		Saturn +0.2		Mars -2.9	
	v = 0.2' d = 1.2'		v = 2.3' d = 0.1'		v = 2.6' d = 0.0'		v = 3.1' d = 0.1'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	135°24.0'	N 1°02.2'	90°27.5'	S 15°11.3'	38°49.1'	S 22°36.5'	6°33.4'	S 26°06.4'
1	150°24.2'	N 1°00.9'	105°29.8'	S 15°11.4'	53°51.7'	S 22°36.5'	21°36.6'	S 26°06.5'
2	165°24.3'	N 0°59.7'	120°32.1'	S 15°11.5'	68°54.3'	S 22°36.5'	36°39.7'	S 26°06.7'
3	180°24.5'	N 0°58.5'	135°34.4'	S 15°11.5'	83°56.9'	S 22°36.5'	51°42.9'	S 26°06.8'
4	195°24.7'	N 0°57.2'	150°36.7'	S 15°11.6'	98°59.5'	S 22°36.5'	66°46.1'	S 26°07.0'
5	210°24.9'	N 0°56.0'	165°39.0'	S 15°11.6'	114°02.1'	S 22°36.5'	81°49.2'	S 26°07.1'
6	225°25.1'	N 0°54.8'	180°41.2'	S 15°11.7'	129°04.7'	S 22°36.6'	96°52.4'	S 26°07.3'
7	240°25.2'	N 0°53.5'	195°43.5'	S 15°11.8'	144°07.3'	S 22°36.6'	111°55.5'	S 26°07.4'
8	255°25.4'	N 0°52.3'	210°45.8'	S 15°11.8'	159°09.9'	S 22°36.6'	126°58.7'	S 26°07.6'
9	270°25.6'	N 0°51.1'	225°48.1'	S 15°11.9'	174°12.5'	S 22°36.6'	142°01.8'	S 26°07.7'
10	285°25.8'	N 0°49.8'	240°50.4'	S 15°12.0'	189°15.1'	S 22°36.6'	157°05.0'	S 26°07.9'
11	300°26.0'	N 0°48.6'	255°52.7'	S 15°12.0'	204°17.7'	S 22°36.6'	172°08.1'	S 26°08.0'
12	315°26.1'	N 0°47.4'	270°55.0'	S 15°12.1'	219°20.3'	S 22°36.6'	187°11.3'	S 26°08.2'
13	330°26.3'	N 0°46.2'	285°57.3'	S 15°12.1'	234°22.9'	S 22°36.6'	202°14.4'	S 26°08.3'
14	345°26.5'	N 0°44.9'	300°59.6'	S 15°12.2'	249°25.4'	S 22°36.6'	217°17.6'	S 26°08.5'
15	0°26.7'	N 0°43.7'	316°01.9'	S 15°12.3'	264°28.0'	S 22°36.6'	232°20.7'	S 26°08.6'
16	15°26.9'	N 0°42.5'	331°04.1'	S 15°12.3'	279°30.6'	S 22°36.6'	247°23.9'	S 26°08.8'
17	30°27.0'	N 0°41.2'	346°06.4'	S 15°12.4'	294°33.2'	S 22°36.7'	262°27.0'	S 26°08.9'
18	45°27.2'	N 0°40.0'	1°08.7'	S 15°12.5'	309°35.8'	S 22°36.7'	277°30.1'	S 26°09.1'
19	60°27.4'	N 0°38.8'	16°11.0'	S 15°12.5'	324°38.4'	S 22°36.7'	292°33.3'	S 26°09.2'
20	75°27.6'	N 0°37.5'	31°13.3'	S 15°12.6'	339°41.0'	S 22°36.7'	307°36.4'	S 26°09.4'
21	90°27.8'	N 0°36.3'	46°15.6'	S 15°12.6'	354°43.6'	S 22°36.7'	322°39.6'	S 26°09.5'
22	105°28.0'	N 0°35.1'	61°17.9'	S 15°12.7'	9°46.2'	S 22°36.7'	337°42.7'	S 26°09.7'
23	120°28.2'	N 0°33.9'	76°20.2'	S 15°12.8'	24°48.8'	S 22°36.7'	352°45.9'	S 26°09.8'

Sun Aug 5, 2018 UTC

UTC	Venus -4.2		Jupiter -1.9		Saturn +0.2		Mars -2.9	
	v = 0.2' d = 1.2'		v = 2.3' d = 0.1'		v = 2.6' d = 0.0'		v = 3.1' d = 0.1'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	135°28.3'	N 0°32.6'	91°22.4'	S 15°12.8'	39°51.4'	S 22°36.7'	7°49.0'	S 26°10.0'
1	150°28.5'	N 0°31.4'	106°24.7'	S 15°12.9'	54°54.0'	S 22°36.7'	22°52.2'	S 26°10.1'
2	165°28.7'	N 0°30.2'	121°27.0'	S 15°13.0'	69°56.6'	S 22°36.7'	37°55.3'	S 26°10.2'
3	180°28.9'	N 0°28.9'	136°29.3'	S 15°13.0'	84°59.2'	S 22°36.7'	52°58.4'	S 26°10.4'
4	195°29.1'	N 0°27.7'	151°31.6'	S 15°13.1'	100°01.8'	S 22°36.7'	68°01.6'	S 26°10.5'
5	210°29.3'	N 0°26.5'	166°33.9'	S 15°13.2'	115°04.4'	S 22°36.8'	83°04.7'	S 26°10.7'
6	225°29.5'	N 0°25.3'	181°36.2'	S 15°13.2'	130°07.0'	S 22°36.8'	98°07.9'	S 26°10.8'
7	240°29.7'	N 0°24.0'	196°38.4'	S 15°13.3'	145°09.6'	S 22°36.8'	113°11.0'	S 26°10.9'
8	255°29.9'	N 0°22.8'	211°40.7'	S 15°13.4'	160°12.2'	S 22°36.8'	128°14.2'	S 26°11.1'
9	270°30.1'	N 0°21.6'	226°43.0'	S 15°13.4'	175°14.7'	S 22°36.8'	143°17.3'	S 26°11.2'
10	285°30.2'	N 0°20.3'	241°45.3'	S 15°13.5'	190°17.3'	S 22°36.8'	158°20.4'	S 26°11.4'
11	300°30.4'	N 0°19.1'	256°47.6'	S 15°13.5'	205°19.9'	S 22°36.8'	173°23.6'	S 26°11.5'
12	315°30.6'	N 0°17.9'	271°49.9'	S 15°13.6'	220°22.5'	S 22°36.8'	188°26.7'	S 26°11.6'
13	330°30.8'	N 0°16.6'	286°52.1'	S 15°13.7'	235°25.1'	S 22°36.8'	203°29.8'	S 26°11.8'
14	345°31.0'	N 0°15.4'	301°54.4'	S 15°13.7'	250°27.7'	S 22°36.8'	218°33.0'	S 26°11.9'
15	0°31.2'	N 0°14.2'	316°56.7'	S 15°13.8'	265°30.3'	S 22°36.8'	233°36.1'	S 26°12.0'
16	15°31.4'	N 0°13.0'	331°59.0'	S 15°13.9'	280°32.9'	S 22°36.8'	248°39.2'	S 26°12.2'
17	30°31.6'	N 0°11.7'	347°01.3'	S 15°13.9'	295°35.5'	S 22°36.9'	263°42.4'	S 26°12.3'
18	45°31.8'	N 0°10.5'	2°03.6'	S 15°14.0'	310°38.1'	S 22°36.9'	278°45.5'	S 26°12.5'
19	60°32.0'	N 0°09.3'	17°05.8'	S 15°14.1'	325°40.7'	S 22°36.9'	293°48.6'	S 26°12.6'
20	75°32.2'	N 0°08.0'	32°08.1'	S 15°14.1'	340°43.3'	S 22°36.9'	308°51.8'	S 26°12.7'
21	90°32.4'	N 0°06.8'	47°10.4'	S 15°14.2'	355°45.9'	S 22°36.9'	323°54.9'	S 26°12.9'
22	105°32.6'	N 0°05.6'	62°12.7'	S 15°14.3'	10°48.4'	S 22°36.9'	338°58.0'	S 26°13.0'
23	120°32.8'	N 0°04.3'	77°15.0'	S 15°14.3'	25°51.0'	S 22°36.9'	354°01.2'	S 26°13.1'

Mon Aug 6, 2018 UTC

UTC	Venus -4.2		Jupiter -1.9		Saturn +0.2		Mars -2.9	
	v = 0.2' d = 1.2'		v = 2.3' d = 0.1'		v = 2.6' d = 0.0'		v = 3.1' d = 0.1'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	135°33.0'	N 0°03.1'	92°17.2'	S 15°14.4'	40°53.6'	S 22°36.9'	9°04.3'	S 26°13.3'
1	150°33.2'	N 0°01.9'	107°19.5'	S 15°14.5'	55°56.2'	S 22°36.9'	24°07.4'	S 26°13.4'
2	165°33.4'	N 0°00.7'	122°21.8'	S 15°14.5'	70°58.8'	S 22°36.9'	39°10.6'	S 26°13.5'
3	180°33.6'	S 0°00.6'	137°24.1'	S 15°14.6'	86°01.4'	S 22°36.9'	54°13.7'	S 26°13.6'
4	195°33.8'	S 0°01.8'	152°26.4'	S 15°14.7'	101°04.0'	S 22°37.0'	69°16.8'	S 26°13.8'
5	210°34.0'	S 0°03.0'	167°28.6'	S 15°14.7'	116°06.6'	S 22°37.0'	84°20.0'	S 26°13.9'
6	225°34.2'	S 0°04.3'	182°30.9'	S 15°14.8'	131°09.2'	S 22°37.0'	99°23.1'	S 26°14.0'
7	240°34.4'	S 0°05.5'	197°33.2'	S 15°14.8'	146°11.8'	S 22°37.0'	114°26.2'	S 26°14.2'
8	255°34.6'	S 0°06.7'	212°35.5'	S 15°14.9'	161°14.4'	S 22°37.0'	129°29.3'	S 26°14.3'
9	270°34.8'	S 0°07.9'	227°37.7'	S 15°15.0'	176°16.9'	S 22°37.0'	144°32.5'	S 26°14.4'
10	285°35.0'	S 0°09.2'	242°40.0'	S 15°15.0'	191°19.5'	S 22°37.0'	159°35.6'	S 26°14.5'
11	300°35.2'	S 0°10.4'	257°42.3'	S 15°15.1'	206°22.1'	S 22°37.0'	174°38.7'	S 26°14.7'
12	315°35.4'	S 0°11.6'	272°44.6'	S 15°15.2'	221°24.7'	S 22°37.0'	189°41.8'	S 26°14.8'
13	330°35.6'	S 0°12.9'	287°46.9'	S 15°15.2'	236°27.3'	S 22°37.0'	204°44.9'	S 26°14.9'
14	345°35.8'	S 0°14.1'	302°49.1'	S 15°15.3'	251°29.9'	S 22°37.0'	219°48.1'	S 26°15.0'
15	0°36.1'	S 0°15.3'	317°51.4'	S 15°15.4'	266°32.5'	S 22°37.0'	234°51.2'	S 26°15.2'
16	15°36.3'	S 0°16.5'	332°53.7'	S 15°15.4'	281°35.1'	S 22°37.1'	249°54.3'	S 26°15.3'
17	30°36.5'	S 0°17.8'	347°56.0'	S 15°15.5'	296°37.7'	S 22°37.1'	264°57.4'	S 26°15.4'
18	45°36.7'	S 0°19.0'	2°58.2'	S 15°15.6'	311°40.2'	S 22°37.1'	280°00.6'	S 26°15.5'
19	60°36.9'	S 0°20.2'	18°00.5'	S 15°15.6'	326°42.8'	S 22°37.1'	295°03.7'	S 26°15.7'
20	75°37.1'	S 0°21.5'	33°02.8'	S 15°15.7'	341°45.4'	S 22°37.1'	310°06.8'	S 26°15.8'
21	90°37.3'	S 0°22.7'	48°05.1'	S 15°15.8'	356°48.0'	S 22°37.1'	325°09.9'	S 26°15.9'
22	105°37.5'	S 0°23.9'	63°07.3'	S 15°15.8'	11°50.6'	S 22°37.1'	340°13.0'	S 26°16.0'
23	120°37.7'	S 0°25.1'	78°09.6'	S 15°15.9'	26°53.2'	S 22°37.1'	355°16.1'	S 26°16.1'

Tue Aug 7, 2018 UTC

UTC	Venus -4.2		Jupiter -1.9		Saturn +0.2		Mars -2.9	
	v = 0.2' d = 1.2'		v = 2.3' d = 0.1'		v = 2.6' d = 0.0'		v = 3.1' d = 0.1'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	135°37.9'	S 0°26.4'	93°11.9'	S 15°16.0'	41°55.8'	S 22°37.1'	10°19.3'	S 26°16.3'
1	150°38.2'	S 0°27.6'	108°14.1'	S 15°16.1'	56°58.4'	S 22°37.1'	25°22.4'	S 26°16.4'
2	165°38.4'	S 0°28.8'	123°16.4'	S 15°16.1'	72°01.0'	S 22°37.1'	40°25.5'	S 26°16.5'
3	180°38.6'	S 0°30.1'	138°18.7'	S 15°16.2'	87°03.5'	S 22°37.1'	55°28.6'	S 26°16.6'
4	195°38.8'	S 0°31.3'	153°21.0'	S 15°16.3'	102°06.1'	S 22°37.2'	70°31.7'	S 26°16.7'
5	210°39.0'	S 0°32.5'	168°23.2'	S 15°16.3'	117°08.7'	S 22°37.2'	85°34.8'	S 26°16.9'
6	225°39.2'	S 0°33.7'	183°25.5'	S 15°16.4'	132°11.3'	S 22°37.2'	100°37.9'	S 26°17.0'
7	240°39.4'	S 0°35.0'	198°27.8'	S 15°16.5'	147°13.9'	S 22°37.2'	115°41.0'	S 26°17.1'
8	255°39.7'	S 0°36.2'	213°30.0'	S 15°16.5'	162°16.5'	S 22°37.2'	130°44.2'	S 26°17.2'
9	270°39.9'	S 0°37.4'	228°32.3'	S 15°16.6'	177°19.1'	S 22°37.2'	145°47.3'	S 26°17.3'
10	285°40.1'	S 0°38.7'	243°34.6'	S 15°16.7'	192°21.6'	S 22°37.2'	160°50.4'	S 26°17.4'
11	300°40.3'	S 0°39.9'	258°36.9'	S 15°16.7'	207°24.2'	S 22°37.2'	175°53.5'	S 26°17.5'
12	315°40.5'	S 0°41.1'	273°39.1'	S 15°16.8'	222°26.8'	S 22°37.2'	190°56.6'	S 26°17.7'
13	330°40.8'	S 0°42.3'	288°41.4'	S 15°16.9'	237°29.4'	S 22°37.2'	205°59.7'	S 26°17.8'
14	345°41.0'	S 0°43.6'	303°43.7'	S 15°16.9'	252°32.0'	S 22°37.2'	221°02.8'	S 26°17.9'
15	0°41.2'	S 0°44.8'	318°45.9'	S 15°17.0'	267°34.6'	S 22°37.2'	236°05.9'	S 26°18.0'
16	15°41.4'	S 0°46.0'	333°48.2'	S 15°17.1'	282°37.2'	S 22°37.3'	251°09.0'	S 26°18.1'
17	30°41.6'	S 0°47.2'	348°50.5'	S 15°17.1'	297°39.7'	S 22°37.3'	266°12.1'	S 26°18.2'
18	45°41.9'	S 0°48.5'	3°52.7'	S 15°17.2'	312°42.3'	S 22°37.3'	281°15.2'	S 26°18.3'
19	60°42.1'	S 0°49.7'	18°55.0'	S 15°17.3'	327°44.9'	S 22°37.3'	296°18.3'	S 26°18.4'
20	75°42.3'	S 0°50.9'	33°57.3'	S 15°17.3'	342°47.5'	S 22°37.3'	311°21.4'	S 26°18.5'
21	90°42.5'	S 0°52.2'	48°59.5'	S 15°17.4'	357°50.1'	S 22°37.3'	326°24.5'	S 26°18.7'
22	105°42.8'	S 0°53.4'	64°01.8'	S 15°17.5'	12°52.7'	S 22°37.3'	341°27.6'	S 26°18.8'
23	120°43.0'	S 0°54.6'	79°04.1'	S 15°17.6'	27°55.3'	S 22°37.3'	356°30.7'	S 26°18.9'

Wed Aug 8, 2018 UTC

UTC	Venus -4.2		Jupiter -1.9		Saturn +0.2		Mars -2.9	
	v = 0.2' d = 1.2'		v = 2.3' d = 0.1'		v = 2.6' d = 0.0'		v = 3.1' d = 0.1'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	135°43.2'	S 0°55.8'	94°06.3'	S 15°17.6'	42°57.8'	S 22°37.3'	11°33.8'	S 26°19.0'
1	150°43.4'	S 0°57.1'	109°08.6'	S 15°17.7'	58°00.4'	S 22°37.3'	26°36.9'	S 26°19.1'
2	165°43.7'	S 0°58.3'	124°10.9'	S 15°17.8'	73°03.0'	S 22°37.3'	41°40.0'	S 26°19.2'
3	180°43.9'	S 0°59.5'	139°13.1'	S 15°17.8'	88°05.6'	S 22°37.3'	56°43.1'	S 26°19.3'
4	195°44.1'	S 1°00.7'	154°15.4'	S 15°17.9'	103°08.2'	S 22°37.4'	71°46.2'	S 26°19.4'
5	210°44.3'	S 1°02.0'	169°17.7'	S 15°18.0'	118°10.8'	S 22°37.4'	86°49.3'	S 26°19.5'
6	225°44.6'	S 1°03.2'	184°19.9'	S 15°18.0'	133°13.3'	S 22°37.4'	101°52.4'	S 26°19.6'
7	240°44.8'	S 1°04.4'	199°22.2'	S 15°18.1'	148°15.9'	S 22°37.4'	116°55.5'	S 26°19.7'
8	255°45.0'	S 1°05.6'	214°24.5'	S 15°18.2'	163°18.5'	S 22°37.4'	131°58.6'	S 26°19.8'
9	270°45.3'	S 1°06.9'	229°26.7'	S 15°18.2'	178°21.1'	S 22°37.4'	147°01.7'	S 26°19.9'
10	285°45.5'	S 1°08.1'	244°29.0'	S 15°18.3'	193°23.7'	S 22°37.4'	162°04.7'	S 26°20.0'
11	300°45.7'	S 1°09.3'	259°31.3'	S 15°18.4'	208°26.3'	S 22°37.4'	177°07.8'	S 26°20.1'
12	315°45.9'	S 1°10.5'	274°33.5'	S 15°18.5'	223°28.8'	S 22°37.4'	192°10.9'	S 26°20.2'
13	330°46.2'	S 1°11.8'	289°35.8'	S 15°18.5'	238°31.4'	S 22°37.4'	207°14.0'	S 26°20.3'
14	345°46.4'	S 1°13.0'	304°38.0'	S 15°18.6'	253°34.0'	S 22°37.4'	222°17.1'	S 26°20.4'
15	0°46.6'	S 1°14.2'	319°40.3'	S 15°18.7'	268°36.6'	S 22°37.4'	237°20.2'	S 26°20.5'
16	15°46.9'	S 1°15.5'	334°42.6'	S 15°18.7'	283°39.2'	S 22°37.5'	252°23.3'	S 26°20.6'
17	30°47.1'	S 1°16.7'	349°44.8'	S 15°18.8'	298°41.8'	S 22°37.5'	267°26.4'	S 26°20.7'
18	45°47.3'	S 1°17.9'	4°47.1'	S 15°18.9'	313°44.3'	S 22°37.5'	282°29.4'	S 26°20.8'
19	60°47.6'	S 1°19.1'	19°49.4'	S 15°18.9'	328°46.9'	S 22°37.5'	297°32.5'	S 26°20.9'
20	75°47.8'	S 1°20.4'	34°51.6'	S 15°19.0'	343°49.5'	S 22°37.5'	312°35.6'	S 26°21.0'
21	90°48.1'	S 1°21.6'	49°53.9'	S 15°19.1'	358°52.1'	S 22°37.5'	327°38.7'	S 26°21.1'
22	105°48.3'	S 1°22.8'	64°56.1'	S 15°19.2'	13°54.7'	S 22°37.5'	342°41.8'	S 26°21.2'
23	120°48.5'	S 1°24.0'	79°58.4'	S 15°19.2'	28°57.2'	S 22°37.5'	357°44.8'	S 26°21.3'

Thu Aug 9, 2018 UTC

UTC	Venus -4.2		Jupiter -1.9		Saturn +0.2		Mars -2.8	
	v = 0.2' d = 1.2'		v = 2.3' d = 0.1'		v = 2.6' d = 0.0'		v = 3.1' d = 0.1'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	135°48.8'	S 1°25.3'	95°00.7'	S 15°19.3'	43°59.8'	S 22°37.5'	12°47.9'	S 26°21.4'
1	150°49.0'	S 1°26.5'	110°02.9'	S 15°19.4'	59°02.4'	S 22°37.5'	27°51.0'	S 26°21.5'
2	165°49.2'	S 1°27.7'	125°05.2'	S 15°19.4'	74°05.0'	S 22°37.5'	42°54.1'	S 26°21.6'
3	180°49.5'	S 1°28.9'	140°07.4'	S 15°19.5'	89°07.6'	S 22°37.5'	57°57.2'	S 26°21.7'
4	195°49.7'	S 1°30.2'	155°09.7'	S 15°19.6'	104°10.1'	S 22°37.6'	73°00.2'	S 26°21.8'
5	210°50.0'	S 1°31.4'	170°12.0'	S 15°19.7'	119°12.7'	S 22°37.6'	88°03.3'	S 26°21.9'
6	225°50.2'	S 1°32.6'	185°14.2'	S 15°19.7'	134°15.3'	S 22°37.6'	103°06.4'	S 26°22.0'
7	240°50.4'	S 1°33.8'	200°16.5'	S 15°19.8'	149°17.9'	S 22°37.6'	118°09.5'	S 26°22.1'
8	255°50.7'	S 1°35.1'	215°18.7'	S 15°19.9'	164°20.5'	S 22°37.6'	133°12.5'	S 26°22.1'
9	270°50.9'	S 1°36.3'	230°21.0'	S 15°19.9'	179°23.0'	S 22°37.6'	148°15.6'	S 26°22.2'
10	285°51.2'	S 1°37.5'	245°23.2'	S 15°20.0'	194°25.6'	S 22°37.6'	163°18.7'	S 26°22.3'
11	300°51.4'	S 1°38.7'	260°25.5'	S 15°20.1'	209°28.2'	S 22°37.6'	178°21.7'	S 26°22.4'
12	315°51.7'	S 1°39.9'	275°27.8'	S 15°20.2'	224°30.8'	S 22°37.6'	193°24.8'	S 26°22.5'
13	330°51.9'	S 1°41.2'	290°30.0'	S 15°20.2'	239°33.4'	S 22°37.6'	208°27.9'	S 26°22.6'
14	345°52.2'	S 1°42.4'	305°32.3'	S 15°20.3'	254°35.9'	S 22°37.6'	223°30.9'	S 26°22.7'
15	0°52.4'	S 1°43.6'	320°34.5'	S 15°20.4'	269°38.5'	S 22°37.6'	238°34.0'	S 26°22.8'
16	15°52.6'	S 1°44.8'	335°36.8'	S 15°20.4'	284°41.1'	S 22°37.7'	253°37.1'	S 26°22.8'
17	30°52.9'	S 1°46.1'	350°39.0'	S 15°20.5'	299°43.7'	S 22°37.7'	268°40.1'	S 26°22.9'
18	45°53.1'	S 1°47.3'	5°41.3'	S 15°20.6'	314°46.3'	S 22°37.7'	283°43.2'	S 26°23.0'
19	60°53.4'	S 1°48.5'	20°43.5'	S 15°20.7'	329°48.8'	S 22°37.7'	298°46.3'	S 26°23.1'
20	75°53.6'	S 1°49.7'	35°45.8'	S 15°20.7'	344°51.4'	S 22°37.7'	313°49.3'	S 26°23.2'
21	90°53.9'	S 1°51.0'	50°48.1'	S 15°20.8'	359°54.0'	S 22°37.7'	328°52.4'	S 26°23.3'
22	105°54.1'	S 1°52.2'	65°50.3'	S 15°20.9'	14°56.6'	S 22°37.7'	343°55.4'	S 26°23.4'
23	120°54.4'	S 1°53.4'	80°52.6'	S 15°21.0'	29°59.1'	S 22°37.7'	358°58.5'	S 26°23.4'

Fri Aug 10, 2018 UTC

UTC	Venus -4.2		Jupiter -1.9		Saturn +0.2		Mars -2.8	
	v = 0.3' d = 1.2'		v = 2.2' d = 0.1'		v = 2.6' d = 0.0'		v = 3.0' d = 0.1'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	135°54.6'	S 1°54.6'	95°54.8'	S 15°21.0'	45°01.7'	S 22°37.7'	14°01.6'	S 26°23.5'
1	150°54.9'	S 1°55.8'	110°57.1'	S 15°21.1'	60°04.3'	S 22°37.7'	29°04.6'	S 26°23.6'
2	165°55.1'	S 1°57.1'	125°59.3'	S 15°21.2'	75°06.9'	S 22°37.7'	44°07.7'	S 26°23.7'
3	180°55.4'	S 1°58.3'	141°01.6'	S 15°21.2'	90°09.4'	S 22°37.7'	59°10.7'	S 26°23.8'
4	195°55.6'	S 1°59.5'	156°03.8'	S 15°21.3'	105°12.0'	S 22°37.8'	74°13.8'	S 26°23.8'
5	210°55.9'	S 2°00.7'	171°06.1'	S 15°21.4'	120°14.6'	S 22°37.8'	89°16.8'	S 26°23.9'
6	225°56.2'	S 2°02.0'	186°08.3'	S 15°21.5'	135°17.2'	S 22°37.8'	104°19.9'	S 26°24.0'
7	240°56.4'	S 2°03.2'	201°10.6'	S 15°21.5'	150°19.8'	S 22°37.8'	119°22.9'	S 26°24.1'
8	255°56.7'	S 2°04.4'	216°12.8'	S 15°21.6'	165°22.3'	S 22°37.8'	134°26.0'	S 26°24.2'
9	270°56.9'	S 2°05.6'	231°15.1'	S 15°21.7'	180°24.9'	S 22°37.8'	149°29.0'	S 26°24.2'
10	285°57.2'	S 2°06.8'	246°17.3'	S 15°21.8'	195°27.5'	S 22°37.8'	164°32.1'	S 26°24.3'
11	300°57.4'	S 2°08.1'	261°19.6'	S 15°21.8'	210°30.1'	S 22°37.8'	179°35.1'	S 26°24.4'
12	315°57.7'	S 2°09.3'	276°21.8'	S 15°21.9'	225°32.6'	S 22°37.8'	194°38.2'	S 26°24.5'
13	330°57.9'	S 2°10.5'	291°24.1'	S 15°22.0'	240°35.2'	S 22°37.8'	209°41.2'	S 26°24.5'
14	345°58.2'	S 2°11.7'	306°26.3'	S 15°22.1'	255°37.8'	S 22°37.8'	224°44.3'	S 26°24.6'
15	0°58.5'	S 2°13.0'	321°28.6'	S 15°22.1'	270°40.4'	S 22°37.8'	239°47.3'	S 26°24.7'
16	15°58.7'	S 2°14.2'	336°30.8'	S 15°22.2'	285°42.9'	S 22°37.9'	254°50.4'	S 26°24.8'
17	30°59.0'	S 2°15.4'	351°33.1'	S 15°22.3'	300°45.5'	S 22°37.9'	269°53.4'	S 26°24.8'
18	45°59.2'	S 2°16.6'	6°35.3'	S 15°22.4'	315°48.1'	S 22°37.9'	284°56.4'	S 26°24.9'
19	60°59.5'	S 2°17.8'	21°37.6'	S 15°22.4'	330°50.7'	S 22°37.9'	299°59.5'	S 26°25.0'
20	75°59.8'	S 2°19.1'	36°39.8'	S 15°22.5'	345°53.2'	S 22°37.9'	315°02.5'	S 26°25.1'
21	91°00.0'	S 2°20.3'	51°42.1'	S 15°22.6'	0°55.8'	S 22°37.9'	330°05.6'	S 26°25.1'
22	106°00.3'	S 2°21.5'	66°44.3'	S 15°22.6'	15°58.4'	S 22°37.9'	345°08.6'	S 26°25.2'
23	121°00.5'	S 2°22.7'	81°46.6'	S 15°22.7'	31°01.0'	S 22°37.9'	0°11.6'	S 26°25.3'

Sat Aug 11, 2018 UTC

UTC	Venus -4.2		Jupiter -1.9		Saturn +0.2		Mars -2.7	
	v = 0.3' d = 1.2'		v = 2.2' d = 0.1'		v = 2.6' d = 0.0'		v = 3.0' d = 0.1'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	136°00.8'	S 2°23.9'	96°48.8'	S 15°22.8'	46°03.5'	S 22°37.9'	15°14.7'	S 26°25.3'
1	151°01.1'	S 2°25.2'	111°51.1'	S 15°22.9'	61°06.1'	S 22°37.9'	30°17.7'	S 26°25.4'
2	166°01.3'	S 2°26.4'	126°53.3'	S 15°22.9'	76°08.7'	S 22°37.9'	45°20.7'	S 26°25.5'
3	181°01.6'	S 2°27.6'	141°55.6'	S 15°23.0'	91°11.2'	S 22°37.9'	60°23.8'	S 26°25.5'
4	196°01.9'	S 2°28.8'	156°57.8'	S 15°23.1'	106°13.8'	S 22°38.0'	75°26.8'	S 26°25.6'
5	211°02.1'	S 2°30.0'	172°00.0'	S 15°23.2'	121°16.4'	S 22°38.0'	90°29.8'	S 26°25.7'
6	226°02.4'	S 2°31.3'	187°02.3'	S 15°23.2'	136°19.0'	S 22°38.0'	105°32.9'	S 26°25.7'
7	241°02.7'	S 2°32.5'	202°04.5'	S 15°23.3'	151°21.5'	S 22°38.0'	120°35.9'	S 26°25.8'
8	256°02.9'	S 2°33.7'	217°06.8'	S 15°23.4'	166°24.1'	S 22°38.0'	135°38.9'	S 26°25.9'
9	271°03.2'	S 2°34.9'	232°09.0'	S 15°23.5'	181°26.7'	S 22°38.0'	150°41.9'	S 26°25.9'
10	286°03.5'	S 2°36.1'	247°11.3'	S 15°23.5'	196°29.3'	S 22°38.0'	165°45.0'	S 26°26.0'
11	301°03.7'	S 2°37.3'	262°13.5'	S 15°23.6'	211°31.8'	S 22°38.0'	180°48.0'	S 26°26.1'
12	316°04.0'	S 2°38.6'	277°15.8'	S 15°23.7'	226°34.4'	S 22°38.0'	195°51.0'	S 26°26.1'
13	331°04.3'	S 2°39.8'	292°18.0'	S 15°23.8'	241°37.0'	S 22°38.0'	210°54.0'	S 26°26.2'
14	346°04.6'	S 2°41.0'	307°20.2'	S 15°23.8'	256°39.5'	S 22°38.0'	225°57.0'	S 26°26.3'
15	1°04.8'	S 2°42.2'	322°22.5'	S 15°23.9'	271°42.1'	S 22°38.0'	241°00.1'	S 26°26.3'
16	16°05.1'	S 2°43.4'	337°24.7'	S 15°24.0'	286°44.7'	S 22°38.1'	256°03.1'	S 26°26.4'
17	31°05.4'	S 2°44.7'	352°27.0'	S 15°24.1'	301°47.3'	S 22°38.1'	271°06.1'	S 26°26.4'
18	46°05.6'	S 2°45.9'	7°29.2'	S 15°24.1'	316°49.8'	S 22°38.1'	286°09.1'	S 26°26.5'
19	61°05.9'	S 2°47.1'	22°31.5'	S 15°24.2'	331°52.4'	S 22°38.1'	301°12.1'	S 26°26.6'
20	76°06.2'	S 2°48.3'	37°33.7'	S 15°24.3'	346°55.0'	S 22°38.1'	316°15.1'	S 26°26.6'
21	91°06.5'	S 2°49.5'	52°35.9'	S 15°24.4'	1°57.5'	S 22°38.1'	331°18.2'	S 26°26.7'
22	106°06.7'	S 2°50.7'	67°38.2'	S 15°24.5'	17°00.1'	S 22°38.1'	346°21.2'	S 26°26.7'
23	121°07.0'	S 2°52.0'	82°40.4'	S 15°24.5'	32°02.7'	S 22°38.1'	1°24.2'	S 26°26.8'

Sun Aug 12, 2018 UTC

UTC	Venus -4.2		Jupiter -1.9		Saturn +0.3		Mars -2.7	
	v = 0.3' d = 1.2'		v = 2.2' d = 0.1'		v = 2.6' d = 0.0'		v = 3.0' d = 0.0'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	136°07.3'	S 2°53.2'	97°42.7'	S 15°24.6'	47°05.2'	S 22°38.1'	16°27.2'	S 26°26.8'
1	151°07.6'	S 2°54.4'	112°44.9'	S 15°24.7'	62°07.8'	S 22°38.1'	31°30.2'	S 26°26.9'
2	166°07.9'	S 2°55.6'	127°47.1'	S 15°24.8'	77°10.4'	S 22°38.1'	46°33.2'	S 26°27.0'
3	181°08.1'	S 2°56.8'	142°49.4'	S 15°24.8'	92°13.0'	S 22°38.1'	61°36.2'	S 26°27.0'
4	196°08.4'	S 2°58.0'	157°51.6'	S 15°24.9'	107°15.5'	S 22°38.1'	76°39.2'	S 26°27.1'
5	211°08.7'	S 2°59.3'	172°53.9'	S 15°25.0'	122°18.1'	S 22°38.2'	91°42.2'	S 26°27.1'
6	226°09.0'	S 3°00.5'	187°56.1'	S 15°25.1'	137°20.7'	S 22°38.2'	106°45.2'	S 26°27.2'
7	241°09.3'	S 3°01.7'	202°58.3'	S 15°25.1'	152°23.2'	S 22°38.2'	121°48.2'	S 26°27.2'
8	256°09.5'	S 3°02.9'	218°00.6'	S 15°25.2'	167°25.8'	S 22°38.2'	136°51.2'	S 26°27.3'
9	271°09.8'	S 3°04.1'	233°02.8'	S 15°25.3'	182°28.4'	S 22°38.2'	151°54.2'	S 26°27.3'
10	286°10.1'	S 3°05.3'	248°05.1'	S 15°25.4'	197°30.9'	S 22°38.2'	166°57.2'	S 26°27.4'
11	301°10.4'	S 3°06.5'	263°07.3'	S 15°25.4'	212°33.5'	S 22°38.2'	182°00.2'	S 26°27.4'
12	316°10.7'	S 3°07.8'	278°09.5'	S 15°25.5'	227°36.1'	S 22°38.2'	197°03.2'	S 26°27.5'
13	331°10.9'	S 3°09.0'	293°11.8'	S 15°25.6'	242°38.6'	S 22°38.2'	212°06.2'	S 26°27.5'
14	346°11.2'	S 3°10.2'	308°14.0'	S 15°25.7'	257°41.2'	S 22°38.2'	227°09.2'	S 26°27.6'
15	1°11.5'	S 3°11.4'	323°16.2'	S 15°25.8'	272°43.8'	S 22°38.2'	242°12.2'	S 26°27.6'
16	16°11.8'	S 3°12.6'	338°18.5'	S 15°25.8'	287°46.3'	S 22°38.2'	257°15.2'	S 26°27.7'
17	31°12.1'	S 3°13.8'	353°20.7'	S 15°25.9'	302°48.9'	S 22°38.3'	272°18.2'	S 26°27.7'
18	46°12.4'	S 3°15.1'	8°22.9'	S 15°26.0'	317°51.5'	S 22°38.3'	287°21.2'	S 26°27.8'
19	61°12.7'	S 3°16.3'	23°25.2'	S 15°26.1'	332°54.0'	S 22°38.3'	302°24.2'	S 26°27.8'
20	76°12.9'	S 3°17.5'	38°27.4'	S 15°26.1'	347°56.6'	S 22°38.3'	317°27.2'	S 26°27.9'
21	91°13.2'	S 3°18.7'	53°29.7'	S 15°26.2'	2°59.2'	S 22°38.3'	332°30.2'	S 26°27.9'
22	106°13.5'	S 3°19.9'	68°31.9'	S 15°26.3'	18°01.7'	S 22°38.3'	347°33.1'	S 26°28.0'
23	121°13.8'	S 3°21.1'	83°34.1'	S 15°26.4'	33°04.3'	S 22°38.3'	2°36.1'	S 26°28.0'

Mon Aug 13, 2018 UTC

UTC	Venus -4.2		Jupiter -1.9		Saturn +0.3		Mars -2.7	
	v = 0.3' d = 1.2'		v = 2.2' d = 0.1'		v = 2.6' d = 0.0'		v = 3.0' d = 0.0'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	136°14.1'	S 3°22.3'	98°36.4'	S 15°26.5'	48°06.9'	S 22°38.3'	17°39.1'	S 26°28.1'
1	151°14.4'	S 3°23.5'	113°38.6'	S 15°26.5'	63°09.4'	S 22°38.3'	32°42.1'	S 26°28.1'
2	166°14.7'	S 3°24.8'	128°40.8'	S 15°26.6'	78°12.0'	S 22°38.3'	47°45.1'	S 26°28.1'
3	181°15.0'	S 3°26.0'	143°43.1'	S 15°26.7'	93°14.6'	S 22°38.3'	62°48.1'	S 26°28.2'
4	196°15.3'	S 3°27.2'	158°45.3'	S 15°26.8'	108°17.1'	S 22°38.3'	77°51.0'	S 26°28.2'
5	211°15.6'	S 3°28.4'	173°47.5'	S 15°26.8'	123°19.7'	S 22°38.3'	92°54.0'	S 26°28.3'
6	226°15.9'	S 3°29.6'	188°49.8'	S 15°26.9'	138°22.3'	S 22°38.4'	107°57.0'	S 26°28.3'
7	241°16.1'	S 3°30.8'	203°52.0'	S 15°27.0'	153°24.8'	S 22°38.4'	122°60.0'	S 26°28.3'
8	256°16.4'	S 3°32.0'	218°54.2'	S 15°27.1'	168°27.4'	S 22°38.4'	138°02.9'	S 26°28.4'
9	271°16.7'	S 3°33.2'	233°56.5'	S 15°27.2'	183°30.0'	S 22°38.4'	153°05.9'	S 26°28.4'
10	286°17.0'	S 3°34.5'	248°58.7'	S 15°27.2'	198°32.5'	S 22°38.4'	168°08.9'	S 26°28.5'
11	301°17.3'	S 3°35.7'	264°00.9'	S 15°27.3'	213°35.1'	S 22°38.4'	183°11.9'	S 26°28.5'
12	316°17.6'	S 3°36.9'	279°03.1'	S 15°27.4'	228°37.7'	S 22°38.4'	198°14.8'	S 26°28.5'
13	331°17.9'	S 3°38.1'	294°05.4'	S 15°27.5'	243°40.2'	S 22°38.4'	213°17.8'	S 26°28.6'
14	346°18.2'	S 3°39.3'	309°07.6'	S 15°27.6'	258°42.8'	S 22°38.4'	228°20.8'	S 26°28.6'
15	1°18.5'	S 3°40.5'	324°09.8'	S 15°27.6'	273°45.4'	S 22°38.4'	243°23.7'	S 26°28.7'
16	16°18.8'	S 3°41.7'	339°12.1'	S 15°27.7'	288°47.9'	S 22°38.4'	258°26.7'	S 26°28.7'
17	31°19.1'	S 3°42.9'	354°14.3'	S 15°27.8'	303°50.5'	S 22°38.4'	273°29.7'	S 26°28.7'
18	46°19.4'	S 3°44.1'	9°16.5'	S 15°27.9'	318°53.0'	S 22°38.5'	288°32.6'	S 26°28.8'
19	61°19.7'	S 3°45.4'	24°18.8'	S 15°27.9'	333°55.6'	S 22°38.5'	303°35.6'	S 26°28.8'
20	76°20.0'	S 3°46.6'	39°21.0'	S 15°28.0'	348°58.2'	S 22°38.5'	318°38.5'	S 26°28.8'
21	91°20.3'	S 3°47.8'	54°23.2'	S 15°28.1'	4°00.7'	S 22°38.5'	333°41.5'	S 26°28.9'
22	106°20.6'	S 3°49.0'	69°25.4'	S 15°28.2'	19°03.3'	S 22°38.5'	348°44.5'	S 26°28.9'
23	121°20.9'	S 3°50.2'	84°27.7'	S 15°28.3'	34°05.9'	S 22°38.5'	3°47.4'	S 26°28.9'

Tue Aug 14, 2018 UTC

UTC	Venus -4.2		Jupiter -1.9		Saturn +0.3		Mars -2.6	
	v = 0.3' d = 1.2'		v = 2.2' d = 0.1'		v = 2.6' d = 0.0'		v = 2.9' d = 0.0'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	136°21.2'	S 3°51.4'	99°29.9'	S 15°28.3'	49°08.4'	S 22°38.5'	18°50.4'	S 26°29.0'
1	151°21.5'	S 3°52.6'	114°32.1'	S 15°28.4'	64°11.0'	S 22°38.5'	33°53.3'	S 26°29.0'
2	166°21.8'	S 3°53.8'	129°34.4'	S 15°28.5'	79°13.5'	S 22°38.5'	48°56.3'	S 26°29.0'
3	181°22.1'	S 3°55.0'	144°36.6'	S 15°28.6'	94°16.1'	S 22°38.5'	63°59.2'	S 26°29.0'
4	196°22.4'	S 3°56.2'	159°38.8'	S 15°28.7'	109°18.7'	S 22°38.5'	79°02.2'	S 26°29.1'
5	211°22.8'	S 3°57.4'	174°41.0'	S 15°28.7'	124°21.2'	S 22°38.5'	94°05.1'	S 26°29.1'
6	226°23.1'	S 3°58.6'	189°43.3'	S 15°28.8'	139°23.8'	S 22°38.5'	109°08.1'	S 26°29.1'
7	241°23.4'	S 3°59.9'	204°45.5'	S 15°28.9'	154°26.3'	S 22°38.6'	124°11.0'	S 26°29.2'
8	256°23.7'	S 4°01.1'	219°47.7'	S 15°29.0'	169°28.9'	S 22°38.6'	139°14.0'	S 26°29.2'
9	271°24.0'	S 4°02.3'	234°49.9'	S 15°29.1'	184°31.5'	S 22°38.6'	154°16.9'	S 26°29.2'
10	286°24.3'	S 4°03.5'	249°52.2'	S 15°29.1'	199°34.0'	S 22°38.6'	169°19.9'	S 26°29.2'
11	301°24.6'	S 4°04.7'	264°54.4'	S 15°29.2'	214°36.6'	S 22°38.6'	184°22.8'	S 26°29.3'
12	316°24.9'	S 4°05.9'	279°56.6'	S 15°29.3'	229°39.2'	S 22°38.6'	199°25.8'	S 26°29.3'
13	331°25.2'	S 4°07.1'	294°58.8'	S 15°29.4'	244°41.7'	S 22°38.6'	214°28.7'	S 26°29.3'
14	346°25.5'	S 4°08.3'	310°01.1'	S 15°29.5'	259°44.3'	S 22°38.6'	229°31.6'	S 26°29.3'
15	1°25.8'	S 4°09.5'	325°03.3'	S 15°29.5'	274°46.8'	S 22°38.6'	244°34.6'	S 26°29.4'
16	16°26.2'	S 4°10.7'	340°05.5'	S 15°29.6'	289°49.4'	S 22°38.6'	259°37.5'	S 26°29.4'
17	31°26.5'	S 4°11.9'	355°07.7'	S 15°29.7'	304°52.0'	S 22°38.6'	274°40.4'	S 26°29.4'
18	46°26.8'	S 4°13.1'	10°10.0'	S 15°29.8'	319°54.5'	S 22°38.6'	289°43.4'	S 26°29.4'
19	61°27.1'	S 4°14.3'	25°12.2'	S 15°29.9'	334°57.1'	S 22°38.7'	304°46.3'	S 26°29.4'
20	76°27.4'	S 4°15.5'	40°14.4'	S 15°29.9'	349°59.6'	S 22°38.7'	319°49.2'	S 26°29.5'
21	91°27.7'	S 4°16.7'	55°16.6'	S 15°30.0'	5°02.2'	S 22°38.7'	334°52.2'	S 26°29.5'
22	106°28.0'	S 4°18.0'	70°18.8'	S 15°30.1'	20°04.7'	S 22°38.7'	349°55.1'	S 26°29.5'
23	121°28.4'	S 4°19.2'	85°21.1'	S 15°30.2'	35°07.3'	S 22°38.7'	4°58.0'	S 26°29.5'

Wed Aug 15, 2018 UTC

UTC	Venus -4.2		Jupiter -1.9		Saturn +0.3		Mars -2.6	
	v = 0.3' d = 1.2'		v = 2.2' d = 0.1'		v = 2.6' d = 0.0'		v = 2.9' d = 0.0'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	136°28.7'	S 4°20.4'	100°23.3'	S 15°30.3'	50°09.9'	S 22°38.7'	20°01.0'	S 26°29.5'
1	151°29.0'	S 4°21.6'	115°25.5'	S 15°30.4'	65°12.4'	S 22°38.7'	35°03.9'	S 26°29.6'
2	166°29.3'	S 4°22.8'	130°27.7'	S 15°30.4'	80°15.0'	S 22°38.7'	50°06.8'	S 26°29.6'
3	181°29.6'	S 4°24.0'	145°30.0'	S 15°30.5'	95°17.5'	S 22°38.7'	65°09.7'	S 26°29.6'
4	196°30.0'	S 4°25.2'	160°32.2'	S 15°30.6'	110°20.1'	S 22°38.7'	80°12.7'	S 26°29.6'
5	211°30.3'	S 4°26.4'	175°34.4'	S 15°30.7'	125°22.7'	S 22°38.7'	95°15.6'	S 26°29.6'
6	226°30.6'	S 4°27.6'	190°36.6'	S 15°30.8'	140°25.2'	S 22°38.7'	110°18.5'	S 26°29.6'
7	241°30.9'	S 4°28.8'	205°38.8'	S 15°30.8'	155°27.8'	S 22°38.7'	125°21.4'	S 26°29.7'
8	256°31.2'	S 4°30.0'	220°41.1'	S 15°30.9'	170°30.3'	S 22°38.8'	140°24.3'	S 26°29.7'
9	271°31.6'	S 4°31.2'	235°43.3'	S 15°31.0'	185°32.9'	S 22°38.8'	155°27.2'	S 26°29.7'
10	286°31.9'	S 4°32.4'	250°45.5'	S 15°31.1'	200°35.4'	S 22°38.8'	170°30.2'	S 26°29.7'
11	301°32.2'	S 4°33.6'	265°47.7'	S 15°31.2'	215°38.0'	S 22°38.8'	185°33.1'	S 26°29.7'
12	316°32.5'	S 4°34.8'	280°49.9'	S 15°31.3'	230°40.6'	S 22°38.8'	200°36.0'	S 26°29.7'
13	331°32.9'	S 4°36.0'	295°52.1'	S 15°31.3'	245°43.1'	S 22°38.8'	215°38.9'	S 26°29.7'
14	346°33.2'	S 4°37.2'	310°54.4'	S 15°31.4'	260°45.7'	S 22°38.8'	230°41.8'	S 26°29.8'
15	1°33.5'	S 4°38.4'	325°56.6'	S 15°31.5'	275°48.2'	S 22°38.8'	245°44.7'	S 26°29.8'
16	16°33.8'	S 4°39.6'	340°58.8'	S 15°31.6'	290°50.8'	S 22°38.8'	260°47.6'	S 26°29.8'
17	31°34.2'	S 4°40.8'	356°01.0'	S 15°31.7'	305°53.3'	S 22°38.8'	275°50.5'	S 26°29.8'
18	46°34.5'	S 4°42.0'	11°03.2'	S 15°31.7'	320°55.9'	S 22°38.8'	290°53.4'	S 26°29.8'
19	61°34.8'	S 4°43.2'	26°05.5'	S 15°31.8'	335°58.4'	S 22°38.8'	305°56.3'	S 26°29.8'
20	76°35.1'	S 4°44.4'	41°07.7'	S 15°31.9'	351°01.0'	S 22°38.8'	320°59.2'	S 26°29.8'
21	91°35.5'	S 4°45.6'	56°09.9'	S 15°32.0'	6°03.6'	S 22°38.9'	336°02.1'	S 26°29.8'
22	106°35.8'	S 4°46.8'	71°12.1'	S 15°32.1'	21°06.1'	S 22°38.9'	351°05.0'	S 26°29.8'
23	121°36.1'	S 4°48.0'	86°14.3'	S 15°32.2'	36°08.7'	S 22°38.9'	6°07.9'	S 26°29.8'

Thu Aug 16, 2018 UTC

UTC	Venus -4.2		Jupiter -1.9		Saturn +0.3		Mars -2.6	
	v = 0.3' d = 1.2'		v = 2.2' d = 0.1'		v = 2.6' d = 0.0'		v = 2.9' d = 0.0'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	136°36.5'	S 4°49.2'	101°16.5'	S 15°32.2'	51°11.2'	S 22°38.9'	21°10.8'	S 26°29.8'
1	151°36.8'	S 4°50.4'	116°18.7'	S 15°32.3'	66°13.8'	S 22°38.9'	36°13.7'	S 26°29.8'
2	166°37.1'	S 4°51.6'	131°21.0'	S 15°32.4'	81°16.3'	S 22°38.9'	51°16.6'	S 26°29.8'
3	181°37.5'	S 4°52.8'	146°23.2'	S 15°32.5'	96°18.9'	S 22°38.9'	66°19.5'	S 26°29.9'
4	196°37.8'	S 4°54.0'	161°25.4'	S 15°32.6'	111°21.4'	S 22°38.9'	81°22.4'	S 26°29.9'
5	211°38.1'	S 4°55.2'	176°27.6'	S 15°32.7'	126°24.0'	S 22°38.9'	96°25.3'	S 26°29.9'
6	226°38.5'	S 4°56.4'	191°29.8'	S 15°32.7'	141°26.5'	S 22°38.9'	111°28.2'	S 26°29.9'
7	241°38.8'	S 4°57.6'	206°32.0'	S 15°32.8'	156°29.1'	S 22°38.9'	126°31.1'	S 26°29.9'
8	256°39.1'	S 4°58.8'	221°34.2'	S 15°32.9'	171°31.6'	S 22°38.9'	141°33.9'	S 26°29.9'
9	271°39.5'	S 4°60.0'	236°36.5'	S 15°33.0'	186°34.2'	S 22°38.9'	156°36.8'	S 26°29.9'
10	286°39.8'	S 5°01.2'	251°38.7'	S 15°33.1'	201°36.8'	S 22°39.0'	171°39.7'	S 26°29.9'
11	301°40.2'	S 5°02.4'	266°40.9'	S 15°33.2'	216°39.3'	S 22°39.0'	186°42.6'	S 26°29.9'
12	316°40.5'	S 5°03.6'	281°43.1'	S 15°33.2'	231°41.9'	S 22°39.0'	201°45.5'	S 26°29.9'
13	331°40.8'	S 5°04.8'	296°45.3'	S 15°33.3'	246°44.4'	S 22°39.0'	216°48.4'	S 26°29.9'
14	346°41.2'	S 5°06.0'	311°47.5'	S 15°33.4'	261°47.0'	S 22°39.0'	231°51.2'	S 26°29.9'
15	1°41.5'	S 5°07.2'	326°49.7'	S 15°33.5'	276°49.5'	S 22°39.0'	246°54.1'	S 26°29.9'
16	16°41.8'	S 5°08.4'	341°51.9'	S 15°33.6'	291°52.1'	S 22°39.0'	261°57.0'	S 26°29.9'
17	31°42.2'	S 5°09.6'	356°54.2'	S 15°33.7'	306°54.6'	S 22°39.0'	276°59.9'	S 26°29.9'
18	46°42.5'	S 5°10.8'	11°56.4'	S 15°33.7'	321°57.2'	S 22°39.0'	292°02.7'	S 26°29.9'
19	61°42.9'	S 5°12.0'	26°58.6'	S 15°33.8'	336°59.7'	S 22°39.0'	307°05.6'	S 26°29.9'
20	76°43.2'	S 5°13.2'	42°00.8'	S 15°33.9'	352°02.3'	S 22°39.0'	322°08.5'	S 26°29.9'
21	91°43.6'	S 5°14.3'	57°03.0'	S 15°34.0'	7°04.8'	S 22°39.0'	337°11.3'	S 26°29.8'
22	106°43.9'	S 5°15.5'	72°05.2'	S 15°34.1'	22°07.4'	S 22°39.0'	352°14.2'	S 26°29.8'
23	121°44.3'	S 5°16.7'	87°07.4'	S 15°34.2'	37°09.9'	S 22°39.1'	7°17.1'	S 26°29.8'



Fri Aug 17, 2018 UTC

UTC	Venus -4.3		Jupiter -1.9		Saturn +0.3		Mars -2.5	
	v = 0.4' d = 1.2'		v = 2.2' d = 0.1'		v = 2.5' d = 0.0'		v = 2.8' d = 0.0'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	136°44.6'	S 5°17.9'	102°09.6'	S 15°34.2'	52°12.5'	S 22°39.1'	22°19.9'	S 26°29.8'
1	151°44.9'	S 5°19.1'	117°11.8'	S 15°34.3'	67°15.0'	S 22°39.1'	37°22.8'	S 26°29.8'
2	166°45.3'	S 5°20.3'	132°14.0'	S 15°34.4'	82°17.6'	S 22°39.1'	52°25.7'	S 26°29.8'
3	181°45.6'	S 5°21.5'	147°16.3'	S 15°34.5'	97°20.1'	S 22°39.1'	67°28.5'	S 26°29.8'
4	196°46.0'	S 5°22.7'	162°18.5'	S 15°34.6'	112°22.7'	S 22°39.1'	82°31.4'	S 26°29.8'
5	211°46.3'	S 5°23.9'	177°20.7'	S 15°34.7'	127°25.2'	S 22°39.1'	97°34.2'	S 26°29.8'
6	226°46.7'	S 5°25.1'	192°22.9'	S 15°34.8'	142°27.8'	S 22°39.1'	112°37.1'	S 26°29.8'
7	241°47.0'	S 5°26.3'	207°25.1'	S 15°34.8'	157°30.3'	S 22°39.1'	127°40.0'	S 26°29.8'
8	256°47.4'	S 5°27.5'	222°27.3'	S 15°34.9'	172°32.9'	S 22°39.1'	142°42.8'	S 26°29.8'
9	271°47.7'	S 5°28.7'	237°29.5'	S 15°35.0'	187°35.4'	S 22°39.1'	157°45.7'	S 26°29.8'
10	286°48.1'	S 5°29.9'	252°31.7'	S 15°35.1'	202°38.0'	S 22°39.1'	172°48.5'	S 26°29.7'
11	301°48.4'	S 5°31.1'	267°33.9'	S 15°35.2'	217°40.5'	S 22°39.1'	187°51.4'	S 26°29.7'
12	316°48.8'	S 5°32.2'	282°36.1'	S 15°35.3'	232°43.1'	S 22°39.2'	202°54.2'	S 26°29.7'
13	331°49.1'	S 5°33.4'	297°38.3'	S 15°35.3'	247°45.6'	S 22°39.2'	217°57.1'	S 26°29.7'
14	346°49.5'	S 5°34.6'	312°40.5'	S 15°35.4'	262°48.2'	S 22°39.2'	232°59.9'	S 26°29.7'
15	1°49.9'	S 5°35.8'	327°42.7'	S 15°35.5'	277°50.7'	S 22°39.2'	248°02.7'	S 26°29.7'
16	16°50.2'	S 5°37.0'	342°44.9'	S 15°35.6'	292°53.3'	S 22°39.2'	263°05.6'	S 26°29.7'
17	31°50.6'	S 5°38.2'	357°47.1'	S 15°35.7'	307°55.8'	S 22°39.2'	278°08.4'	S 26°29.6'
18	46°50.9'	S 5°39.4'	12°49.4'	S 15°35.8'	322°58.4'	S 22°39.2'	293°11.3'	S 26°29.6'
19	61°51.3'	S 5°40.6'	27°51.6'	S 15°35.9'	338°00.9'	S 22°39.2'	308°14.1'	S 26°29.6'
20	76°51.6'	S 5°41.8'	42°53.8'	S 15°35.9'	353°03.5'	S 22°39.2'	323°17.0'	S 26°29.6'
21	91°52.0'	S 5°43.0'	57°56.0'	S 15°36.0'	8°06.0'	S 22°39.2'	338°19.8'	S 26°29.6'
22	106°52.4'	S 5°44.1'	72°58.2'	S 15°36.1'	23°08.6'	S 22°39.2'	353°22.6'	S 26°29.6'
23	121°52.7'	S 5°45.3'	88°00.4'	S 15°36.2'	38°11.1'	S 22°39.2'	8°25.5'	S 26°29.5'

Sat Aug 18, 2018 UTC

UTC	Venus -4.3		Jupiter -1.9		Saturn +0.3		Mars -2.5	
	v = 0.4' d = 1.2'		v = 2.2' d = 0.1'		v = 2.5' d = 0.0'		v = 2.8' d = 0.0'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	136°53.1'	S 5°46.5'	103°02.6'	S 15°36.3'	53°13.6'	S 22°39.2'	23°28.3'	S 26°29.5'
1	151°53.4'	S 5°47.7'	118°04.8'	S 15°36.4'	68°16.2'	S 22°39.3'	38°31.1'	S 26°29.5'
2	166°53.8'	S 5°48.9'	133°07.0'	S 15°36.5'	83°18.7'	S 22°39.3'	53°33.9'	S 26°29.5'
3	181°54.2'	S 5°50.1'	148°09.2'	S 15°36.5'	98°21.3'	S 22°39.3'	68°36.8'	S 26°29.5'
4	196°54.5'	S 5°51.3'	163°11.4'	S 15°36.6'	113°23.8'	S 22°39.3'	83°39.6'	S 26°29.4'
5	211°54.9'	S 5°52.5'	178°13.6'	S 15°36.7'	128°26.4'	S 22°39.3'	98°42.4'	S 26°29.4'
6	226°55.2'	S 5°53.6'	193°15.8'	S 15°36.8'	143°28.9'	S 22°39.3'	113°45.3'	S 26°29.4'
7	241°55.6'	S 5°54.8'	208°18.0'	S 15°36.9'	158°31.5'	S 22°39.3'	128°48.1'	S 26°29.4'
8	256°56.0'	S 5°56.0'	223°20.2'	S 15°37.0'	173°34.0'	S 22°39.3'	143°50.9'	S 26°29.4'
9	271°56.3'	S 5°57.2'	238°22.4'	S 15°37.1'	188°36.6'	S 22°39.3'	158°53.7'	S 26°29.3'
10	286°56.7'	S 5°58.4'	253°24.6'	S 15°37.2'	203°39.1'	S 22°39.3'	173°56.5'	S 26°29.3'
11	301°57.1'	S 5°59.6'	268°26.8'	S 15°37.2'	218°41.6'	S 22°39.3'	188°59.4'	S 26°29.3'
12	316°57.4'	S 6°00.8'	283°29.0'	S 15°37.3'	233°44.2'	S 22°39.3'	204°02.2'	S 26°29.3'
13	331°57.8'	S 6°01.9'	298°31.2'	S 15°37.4'	248°46.7'	S 22°39.3'	219°05.0'	S 26°29.2'
14	346°58.2'	S 6°03.1'	313°33.4'	S 15°37.5'	263°49.3'	S 22°39.4'	234°07.8'	S 26°29.2'
15	1°58.6'	S 6°04.3'	328°35.6'	S 15°37.6'	278°51.8'	S 22°39.4'	249°10.6'	S 26°29.2'
16	16°58.9'	S 6°05.5'	343°37.8'	S 15°37.7'	293°54.4'	S 22°39.4'	264°13.4'	S 26°29.2'
17	31°59.3'	S 6°06.7'	358°40.0'	S 15°37.8'	308°56.9'	S 22°39.4'	279°16.2'	S 26°29.1'
18	46°59.7'	S 6°07.9'	13°42.2'	S 15°37.8'	323°59.5'	S 22°39.4'	294°19.0'	S 26°29.1'
19	62°00.0'	S 6°09.0'	28°44.4'	S 15°37.9'	339°02.0'	S 22°39.4'	309°21.8'	S 26°29.1'
20	77°00.4'	S 6°10.2'	43°46.6'	S 15°38.0'	354°04.5'	S 22°39.4'	324°24.6'	S 26°29.1'
21	92°00.8'	S 6°11.4'	58°48.8'	S 15°38.1'	9°07.1'	S 22°39.4'	339°27.4'	S 26°29.0'
22	107°01.2'	S 6°12.6'	73°51.0'	S 15°38.2'	24°09.6'	S 22°39.4'	354°30.2'	S 26°29.0'
23	122°01.5'	S 6°13.8'	88°53.2'	S 15°38.3'	39°12.2'	S 22°39.4'	9°33.0'	S 26°29.0'

Sun Aug 19, 2018 UTC

UTC	Venus -4.3		Jupiter -1.9		Saturn +0.3		Mars -2.5	
	v = 0.4' d = 1.2'		v = 2.2' d = 0.1'		v = 2.5' d = 0.0'		v = 2.8' d = 0.0'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	137°01.9'	S 6°15.0'	103°55.4'	S 15°38.4'	54°14.7'	S 22°39.4'	24°35.8'	S 26°28.9'
1	152°02.3'	S 6°16.1'	118°57.6'	S 15°38.5'	69°17.3'	S 22°39.4'	39°38.6'	S 26°28.9'
2	167°02.7'	S 6°17.3'	133°59.8'	S 15°38.5'	84°19.8'	S 22°39.4'	54°41.4'	S 26°28.9'
3	182°03.0'	S 6°18.5'	149°02.0'	S 15°38.6'	99°22.3'	S 22°39.4'	69°44.2'	S 26°28.8'
4	197°03.4'	S 6°19.7'	164°04.2'	S 15°38.7'	114°24.9'	S 22°39.5'	84°47.0'	S 26°28.8'
5	212°03.8'	S 6°20.9'	179°06.4'	S 15°38.8'	129°27.4'	S 22°39.5'	99°49.8'	S 26°28.8'
6	227°04.2'	S 6°22.0'	194°08.6'	S 15°38.9'	144°30.0'	S 22°39.5'	114°52.6'	S 26°28.7'
7	242°04.6'	S 6°23.2'	209°10.8'	S 15°39.0'	159°32.5'	S 22°39.5'	129°55.4'	S 26°28.7'
8	257°04.9'	S 6°24.4'	224°12.9'	S 15°39.1'	174°35.0'	S 22°39.5'	144°58.2'	S 26°28.7'
9	272°05.3'	S 6°25.6'	239°15.1'	S 15°39.2'	189°37.6'	S 22°39.5'	160°01.0'	S 26°28.6'
10	287°05.7'	S 6°26.8'	254°17.3'	S 15°39.2'	204°40.1'	S 22°39.5'	175°03.8'	S 26°28.6'
11	302°06.1'	S 6°27.9'	269°19.5'	S 15°39.3'	219°42.7'	S 22°39.5'	190°06.5'	S 26°28.6'
12	317°06.5'	S 6°29.1'	284°21.7'	S 15°39.4'	234°45.2'	S 22°39.5'	205°09.3'	S 26°28.5'
13	332°06.8'	S 6°30.3'	299°23.9'	S 15°39.5'	249°47.8'	S 22°39.5'	220°12.1'	S 26°28.5'
14	347°07.2'	S 6°31.5'	314°26.1'	S 15°39.6'	264°50.3'	S 22°39.5'	235°14.9'	S 26°28.5'
15	2°07.6'	S 6°32.7'	329°28.3'	S 15°39.7'	279°52.8'	S 22°39.5'	250°17.7'	S 26°28.4'
16	17°08.0'	S 6°33.8'	344°30.5'	S 15°39.8'	294°55.4'	S 22°39.5'	265°20.4'	S 26°28.4'
17	32°08.4'	S 6°35.0'	359°32.7'	S 15°39.9'	309°57.9'	S 22°39.6'	280°23.2'	S 26°28.3'
18	47°08.8'	S 6°36.2'	14°34.9'	S 15°40.0'	325°00.5'	S 22°39.6'	295°26.0'	S 26°28.3'
19	62°09.2'	S 6°37.4'	29°37.1'	S 15°40.0'	340°03.0'	S 22°39.6'	310°28.8'	S 26°28.3'
20	77°09.5'	S 6°38.5'	44°39.3'	S 15°40.1'	355°05.5'	S 22°39.6'	325°31.5'	S 26°28.2'
21	92°09.9'	S 6°39.7'	59°41.5'	S 15°40.2'	10°08.1'	S 22°39.6'	340°34.3'	S 26°28.2'
22	107°10.3'	S 6°40.9'	74°43.7'	S 15°40.3'	25°10.6'	S 22°39.6'	355°37.1'	S 26°28.1'
23	122°10.7'	S 6°42.1'	89°45.9'	S 15°40.4'	40°13.1'	S 22°39.6'	10°39.8'	S 26°28.1'

Mon Aug 20, 2018 UTC

UTC	Venus -4.3		Jupiter -1.8		Saturn +0.3		Mars -2.5	
	v = 0.4' d = 1.2'		v = 2.2' d = 0.1'		v = 2.5' d = 0.0'		v = 2.7' d = 0.0'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	137°11.1'	S 6°43.2'	104°48.0'	S 15°40.5'	55°15.7'	S 22°39.6'	25°42.6'	S 26°28.1'
1	152°11.5'	S 6°44.4'	119°50.2'	S 15°40.6'	70°18.2'	S 22°39.6'	40°45.4'	S 26°28.0'
2	167°11.9'	S 6°45.6'	134°52.4'	S 15°40.7'	85°20.8'	S 22°39.6'	55°48.1'	S 26°28.0'
3	182°12.3'	S 6°46.8'	149°54.6'	S 15°40.8'	100°23.3'	S 22°39.6'	70°50.9'	S 26°27.9'
4	197°12.7'	S 6°47.9'	164°56.8'	S 15°40.8'	115°25.8'	S 22°39.6'	85°53.6'	S 26°27.9'
5	212°13.1'	S 6°49.1'	179°59.0'	S 15°40.9'	130°28.4'	S 22°39.6'	100°56.4'	S 26°27.8'
6	227°13.5'	S 6°50.3'	195°01.2'	S 15°41.0'	145°30.9'	S 22°39.7'	115°59.2'	S 26°27.8'
7	242°13.9'	S 6°51.5'	210°03.4'	S 15°41.1'	160°33.5'	S 22°39.7'	131°01.9'	S 26°27.7'
8	257°14.3'	S 6°52.6'	225°05.6'	S 15°41.2'	175°36.0'	S 22°39.7'	146°04.7'	S 26°27.7'
9	272°14.7'	S 6°53.8'	240°07.8'	S 15°41.3'	190°38.5'	S 22°39.7'	161°07.4'	S 26°27.7'
10	287°15.1'	S 6°55.0'	255°09.9'	S 15°41.4'	205°41.1'	S 22°39.7'	176°10.2'	S 26°27.6'
11	302°15.4'	S 6°56.1'	270°12.1'	S 15°41.5'	220°43.6'	S 22°39.7'	191°12.9'	S 26°27.6'
12	317°15.8'	S 6°57.3'	285°14.3'	S 15°41.6'	235°46.1'	S 22°39.7'	206°15.7'	S 26°27.5'
13	332°16.2'	S 6°58.5'	300°16.5'	S 15°41.6'	250°48.7'	S 22°39.7'	221°18.4'	S 26°27.5'
14	347°16.6'	S 6°59.7'	315°18.7'	S 15°41.7'	265°51.2'	S 22°39.7'	236°21.2'	S 26°27.4'
15	2°17.0'	S 7°00.8'	330°20.9'	S 15°41.8'	280°53.7'	S 22°39.7'	251°23.9'	S 26°27.4'
16	17°17.4'	S 7°02.0'	345°23.1'	S 15°41.9'	295°56.3'	S 22°39.7'	266°26.6'	S 26°27.3'
17	32°17.9'	S 7°03.2'	0°25.3'	S 15°42.0'	310°58.8'	S 22°39.7'	281°29.4'	S 26°27.3'
18	47°18.3'	S 7°04.3'	15°27.4'	S 15°42.1'	326°01.3'	S 22°39.7'	296°32.1'	S 26°27.2'
19	62°18.7'	S 7°05.5'	30°29.6'	S 15°42.2'	341°03.9'	S 22°39.7'	311°34.9'	S 26°27.2'
20	77°19.1'	S 7°06.7'	45°31.8'	S 15°42.3'	356°06.4'	S 22°39.8'	326°37.6'	S 26°27.1'
21	92°19.5'	S 7°07.9'	60°34.0'	S 15°42.4'	11°09.0'	S 22°39.8'	341°40.3'	S 26°27.1'
22	107°19.9'	S 7°09.0'	75°36.2'	S 15°42.5'	26°11.5'	S 22°39.8'	356°43.1'	S 26°27.0'
23	122°20.3'	S 7°10.2'	90°38.4'	S 15°42.5'	41°14.0'	S 22°39.8'	11°45.8'	S 26°26.9'

Tue Aug 21, 2018 UTC

UTC	Venus -4.3 v = 0.4' d = 1.2'		Jupiter -1.8 v = 2.2' d = 0.1'		Saturn +0.3 v = 2.5' d = 0.0'		Mars -2.4 v = 2.7' d = 0.1'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	137°20.7'	S 7°11.4'	105°40.6'	S 15°42.6'	56°16.6'	S 22°39.8'	26°48.5'	S 26°26.9'
1	152°21.1'	S 7°12.5'	120°42.7'	S 15°42.7'	71°19.1'	S 22°39.8'	41°51.3'	S 26°26.8'
2	167°21.5'	S 7°13.7'	135°44.9'	S 15°42.8'	86°21.6'	S 22°39.8'	56°54.0'	S 26°26.8'
3	182°21.9'	S 7°14.9'	150°47.1'	S 15°42.9'	101°24.2'	S 22°39.8'	71°56.7'	S 26°26.7'
4	197°22.3'	S 7°16.0'	165°49.3'	S 15°43.0'	116°26.7'	S 22°39.8'	86°59.4'	S 26°26.7'
5	212°22.7'	S 7°17.2'	180°51.5'	S 15°43.1'	131°29.2'	S 22°39.8'	102°02.2'	S 26°26.6'
6	227°23.1'	S 7°18.4'	195°53.7'	S 15°43.2'	146°31.8'	S 22°39.8'	117°04.9'	S 26°26.6'
7	242°23.5'	S 7°19.5'	210°55.9'	S 15°43.3'	161°34.3'	S 22°39.8'	132°07.6'	S 26°26.5'
8	257°24.0'	S 7°20.7'	225°58.0'	S 15°43.4'	176°36.8'	S 22°39.8'	147°10.3'	S 26°26.4'
9	272°24.4'	S 7°21.9'	241°00.2'	S 15°43.5'	191°39.4'	S 22°39.8'	162°13.0'	S 26°26.4'
10	287°24.8'	S 7°23.0'	256°02.4'	S 15°43.5'	206°41.9'	S 22°39.9'	177°15.8'	S 26°26.3'
11	302°25.2'	S 7°24.2'	271°04.6'	S 15°43.6'	221°44.4'	S 22°39.9'	192°18.5'	S 26°26.3'
12	317°25.6'	S 7°25.3'	286°06.8'	S 15°43.7'	236°47.0'	S 22°39.9'	207°21.2'	S 26°26.2'
13	332°26.0'	S 7°26.5'	301°09.0'	S 15°43.8'	251°49.5'	S 22°39.9'	222°23.9'	S 26°26.1'
14	347°26.4'	S 7°27.7'	316°11.1'	S 15°43.9'	266°52.0'	S 22°39.9'	237°26.6'	S 26°26.1'
15	2°26.9'	S 7°28.8'	331°13.3'	S 15°44.0'	281°54.6'	S 22°39.9'	252°29.3'	S 26°26.0'
16	17°27.3'	S 7°30.0'	346°15.5'	S 15°44.1'	296°57.1'	S 22°39.9'	267°32.0'	S 26°26.0'
17	32°27.7'	S 7°31.2'	1°17.7'	S 15°44.2'	311°59.6'	S 22°39.9'	282°34.7'	S 26°25.9'
18	47°28.1'	S 7°32.3'	16°19.9'	S 15°44.3'	327°02.2'	S 22°39.9'	297°37.4'	S 26°25.8'
19	62°28.5'	S 7°33.5'	31°22.0'	S 15°44.4'	342°04.7'	S 22°39.9'	312°40.1'	S 26°25.8'
20	77°29.0'	S 7°34.6'	46°24.2'	S 15°44.5'	357°07.2'	S 22°39.9'	327°42.8'	S 26°25.7'
21	92°29.4'	S 7°35.8'	61°26.4'	S 15°44.5'	12°09.7'	S 22°39.9'	342°45.5'	S 26°25.6'
22	107°29.8'	S 7°37.0'	76°28.6'	S 15°44.6'	27°12.3'	S 22°39.9'	357°48.2'	S 26°25.6'
23	122°30.2'	S 7°38.1'	91°30.8'	S 15°44.7'	42°14.8'	S 22°40.0'	12°50.9'	S 26°25.5'

Wed Aug 22, 2018 UTC

UTC	Venus -4.3 v = 0.4' d = 1.2'		Jupiter -1.8 v = 2.2' d = 0.1'		Saturn +0.3 v = 2.5' d = 0.0'		Mars -2.4 v = 2.7' d = 0.1'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	137°30.6'	S 7°39.3'	106°32.9'	S 15°44.8'	57°17.3'	S 22°40.0'	27°53.6'	S 26°25.5'
1	152°31.1'	S 7°40.5'	121°35.1'	S 15°44.9'	72°19.9'	S 22°40.0'	42°56.3'	S 26°25.4'
2	167°31.5'	S 7°41.6'	136°37.3'	S 15°45.0'	87°22.4'	S 22°40.0'	57°59.0'	S 26°25.3'
3	182°31.9'	S 7°42.8'	151°39.5'	S 15°45.1'	102°24.9'	S 22°40.0'	73°01.7'	S 26°25.3'
4	197°32.3'	S 7°43.9'	166°41.7'	S 15°45.2'	117°27.5'	S 22°40.0'	88°04.4'	S 26°25.2'
5	212°32.8'	S 7°45.1'	181°43.8'	S 15°45.3'	132°30.0'	S 22°40.0'	103°07.1'	S 26°25.1'
6	227°33.2'	S 7°46.2'	196°46.0'	S 15°45.4'	147°32.5'	S 22°40.0'	118°09.8'	S 26°25.1'
7	242°33.6'	S 7°47.4'	211°48.2'	S 15°45.5'	162°35.0'	S 22°40.0'	133°12.4'	S 26°25.0'
8	257°34.1'	S 7°48.6'	226°50.4'	S 15°45.6'	177°37.6'	S 22°40.0'	148°15.1'	S 26°24.9'
9	272°34.5'	S 7°49.7'	241°52.5'	S 15°45.7'	192°40.1'	S 22°40.0'	163°17.8'	S 26°24.8'
10	287°34.9'	S 7°50.9'	256°54.7'	S 15°45.7'	207°42.6'	S 22°40.0'	178°20.5'	S 26°24.8'
11	302°35.3'	S 7°52.0'	271°56.9'	S 15°45.8'	222°45.2'	S 22°40.0'	193°23.2'	S 26°24.7'
12	317°35.8'	S 7°53.2'	286°59.1'	S 15°45.9'	237°47.7'	S 22°40.0'	208°25.8'	S 26°24.6'
13	332°36.2'	S 7°54.3'	302°01.3'	S 15°46.0'	252°50.2'	S 22°40.1'	223°28.5'	S 26°24.6'
14	347°36.6'	S 7°55.5'	317°03.4'	S 15°46.1'	267°52.7'	S 22°40.1'	238°31.2'	S 26°24.5'
15	2°37.1'	S 7°56.7'	332°05.6'	S 15°46.2'	282°55.3'	S 22°40.1'	253°33.9'	S 26°24.4'
16	17°37.5'	S 7°57.8'	347°07.8'	S 15°46.3'	297°57.8'	S 22°40.1'	268°36.5'	S 26°24.3'
17	32°37.9'	S 7°59.0'	2°10.0'	S 15°46.4'	313°00.3'	S 22°40.1'	283°39.2'	S 26°24.3'
18	47°38.4'	S 8°00.1'	17°12.1'	S 15°46.5'	328°02.9'	S 22°40.1'	298°41.9'	S 26°24.2'
19	62°38.8'	S 8°01.3'	32°14.3'	S 15°46.6'	343°05.4'	S 22°40.1'	313°44.6'	S 26°24.1'
20	77°39.3'	S 8°02.4'	47°16.5'	S 15°46.7'	358°07.9'	S 22°40.1'	328°47.2'	S 26°24.1'
21	92°39.7'	S 8°03.6'	62°18.7'	S 15°46.8'	13°10.4'	S 22°40.1'	343°49.9'	S 26°24.0'
22	107°40.1'	S 8°04.7'	77°20.8'	S 15°46.9'	28°13.0'	S 22°40.1'	358°52.5'	S 26°23.9'
23	122°40.6'	S 8°05.9'	92°23.0'	S 15°47.0'	43°15.5'	S 22°40.1'	13°55.2'	S 26°23.8'

Thu Aug 23, 2018 UTC

UTC	Venus -4.3		Jupiter -1.8		Saturn +0.3		Mars -2.4	
	v = 0.4' d = 1.1'		v = 2.2' d = 0.1'		v = 2.5' d = 0.0'		v = 2.6' d = 0.1'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	137°41.0'	S 8°07.0'	107°25.2'	S 15°47.0'	58°18.0'	S 22°40.1'	28°57.9'	S 26°23.7'
1	152°41.4'	S 8°08.2'	122°27.4'	S 15°47.1'	73°20.5'	S 22°40.1'	44°00.5'	S 26°23.7'
2	167°41.9'	S 8°09.3'	137°29.5'	S 15°47.2'	88°23.1'	S 22°40.1'	59°03.2'	S 26°23.6'
3	182°42.3'	S 8°10.5'	152°31.7'	S 15°47.3'	103°25.6'	S 22°40.2'	74°05.8'	S 26°23.5'
4	197°42.8'	S 8°11.6'	167°33.9'	S 15°47.4'	118°28.1'	S 22°40.2'	89°08.5'	S 26°23.4'
5	212°43.2'	S 8°12.8'	182°36.1'	S 15°47.5'	133°30.6'	S 22°40.2'	104°11.1'	S 26°23.4'
6	227°43.7'	S 8°13.9'	197°38.2'	S 15°47.6'	148°33.2'	S 22°40.2'	119°13.8'	S 26°23.3'
7	242°44.1'	S 8°15.1'	212°40.4'	S 15°47.7'	163°35.7'	S 22°40.2'	134°16.4'	S 26°23.2'
8	257°44.6'	S 8°16.2'	227°42.6'	S 15°47.8'	178°38.2'	S 22°40.2'	149°19.1'	S 26°23.1'
9	272°45.0'	S 8°17.4'	242°44.7'	S 15°47.9'	193°40.7'	S 22°40.2'	164°21.7'	S 26°23.0'
10	287°45.4'	S 8°18.5'	257°46.9'	S 15°48.0'	208°43.3'	S 22°40.2'	179°24.4'	S 26°23.0'
11	302°45.9'	S 8°19.7'	272°49.1'	S 15°48.1'	223°45.8'	S 22°40.2'	194°27.0'	S 26°22.9'
12	317°46.3'	S 8°20.8'	287°51.3'	S 15°48.2'	238°48.3'	S 22°40.2'	209°29.7'	S 26°22.8'
13	332°46.8'	S 8°22.0'	302°53.4'	S 15°48.3'	253°50.8'	S 22°40.2'	224°32.3'	S 26°22.7'
14	347°47.2'	S 8°23.1'	317°55.6'	S 15°48.4'	268°53.4'	S 22°40.2'	239°35.0'	S 26°22.6'
15	2°47.7'	S 8°24.3'	332°57.8'	S 15°48.5'	283°55.9'	S 22°40.2'	254°37.6'	S 26°22.5'
16	17°48.1'	S 8°25.4'	347°59.9'	S 15°48.5'	298°58.4'	S 22°40.2'	269°40.2'	S 26°22.5'
17	32°48.6'	S 8°26.6'	3°02.1'	S 15°48.6'	314°00.9'	S 22°40.3'	284°42.9'	S 26°22.4'
18	47°49.0'	S 8°27.7'	18°04.3'	S 15°48.7'	329°03.5'	S 22°40.3'	299°45.5'	S 26°22.3'
19	62°49.5'	S 8°28.9'	33°06.4'	S 15°48.8'	344°06.0'	S 22°40.3'	314°48.1'	S 26°22.2'
20	77°50.0'	S 8°30.0'	48°08.6'	S 15°48.9'	359°08.5'	S 22°40.3'	329°50.8'	S 26°22.1'
21	92°50.4'	S 8°31.1'	63°10.8'	S 15°49.0'	14°11.0'	S 22°40.3'	344°53.4'	S 26°22.0'
22	107°50.9'	S 8°32.3'	78°13.0'	S 15°49.1'	29°13.5'	S 22°40.3'	359°56.0'	S 26°21.9'
23	122°51.3'	S 8°33.4'	93°15.1'	S 15°49.2'	44°16.1'	S 22°40.3'	14°58.6'	S 26°21.9'

Fri Aug 24, 2018 UTC

UTC	Venus -4.3		Jupiter -1.8		Saturn +0.3		Mars -2.4	
	v = 0.5' d = 1.1'		v = 2.2' d = 0.1'		v = 2.5' d = 0.0'		v = 2.6' d = 0.1'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	137°51.8'	S 8°34.6'	108°17.3'	S 15°49.3'	59°18.6'	S 22°40.3'	30°01.3'	S 26°21.8'
1	152°52.2'	S 8°35.7'	123°19.5'	S 15°49.4'	74°21.1'	S 22°40.3'	45°03.9'	S 26°21.7'
2	167°52.7'	S 8°36.9'	138°21.6'	S 15°49.5'	89°23.6'	S 22°40.3'	60°06.5'	S 26°21.6'
3	182°53.2'	S 8°38.0'	153°23.8'	S 15°49.6'	104°26.2'	S 22°40.3'	75°09.1'	S 26°21.5'
4	197°53.6'	S 8°39.1'	168°26.0'	S 15°49.7'	119°28.7'	S 22°40.3'	90°11.7'	S 26°21.4'
5	212°54.1'	S 8°40.3'	183°28.1'	S 15°49.8'	134°31.2'	S 22°40.3'	105°14.4'	S 26°21.3'
6	227°54.5'	S 8°41.4'	198°30.3'	S 15°49.9'	149°33.7'	S 22°40.4'	120°17.0'	S 26°21.2'
7	242°55.0'	S 8°42.6'	213°32.5'	S 15°50.0'	164°36.2'	S 22°40.4'	135°19.6'	S 26°21.1'
8	257°55.5'	S 8°43.7'	228°34.6'	S 15°50.1'	179°38.8'	S 22°40.4'	150°22.2'	S 26°21.1'
9	272°55.9'	S 8°44.9'	243°36.8'	S 15°50.2'	194°41.3'	S 22°40.4'	165°24.8'	S 26°21.0'
10	287°56.4'	S 8°46.0'	258°39.0'	S 15°50.2'	209°43.8'	S 22°40.4'	180°27.4'	S 26°20.9'
11	302°56.9'	S 8°47.1'	273°41.1'	S 15°50.3'	224°46.3'	S 22°40.4'	195°30.0'	S 26°20.8'
12	317°57.3'	S 8°48.3'	288°43.3'	S 15°50.4'	239°48.8'	S 22°40.4'	210°32.6'	S 26°20.7'
13	332°57.8'	S 8°49.4'	303°45.5'	S 15°50.5'	254°51.4'	S 22°40.4'	225°35.2'	S 26°20.6'
14	347°58.3'	S 8°50.5'	318°47.6'	S 15°50.6'	269°53.9'	S 22°40.4'	240°37.8'	S 26°20.5'
15	2°58.7'	S 8°51.7'	333°49.8'	S 15°50.7'	284°56.4'	S 22°40.4'	255°40.4'	S 26°20.4'
16	17°59.2'	S 8°52.8'	348°52.0'	S 15°50.8'	299°58.9'	S 22°40.4'	270°43.0'	S 26°20.3'
17	32°59.7'	S 8°54.0'	3°54.1'	S 15°50.9'	315°01.4'	S 22°40.4'	285°45.6'	S 26°20.2'
18	48°00.1'	S 8°55.1'	18°56.3'	S 15°51.0'	330°04.0'	S 22°40.4'	300°48.2'	S 26°20.1'
19	63°00.6'	S 8°56.2'	33°58.4'	S 15°51.1'	345°06.5'	S 22°40.4'	315°50.8'	S 26°20.0'
20	78°01.1'	S 8°57.4'	49°00.6'	S 15°51.2'	0°09.0'	S 22°40.5'	330°53.4'	S 26°19.9'
21	93°01.5'	S 8°58.5'	64°02.8'	S 15°51.3'	15°11.5'	S 22°40.5'	345°56.0'	S 26°19.8'
22	108°02.0'	S 8°59.6'	79°04.9'	S 15°51.4'	30°14.0'	S 22°40.5'	0°58.6'	S 26°19.7'
23	123°02.5'	S 9°00.8'	94°07.1'	S 15°51.5'	45°16.6'	S 22°40.5'	16°01.2'	S 26°19.6'

Sat Aug 25, 2018 UTC

UTC	Venus -4.3		Jupiter -1.8		Saturn +0.3		Mars -2.3	
	v = 0.5' d = 1.1'		v = 2.2' d = 0.1'		v = 2.5' d = 0.0'		v = 2.6' d = 0.1'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	138°03.0'	S 9°01.9'	109°09.3'	S 15°51.6'	60°19.1'	S 22°40.5'	31°03.8'	S 26°19.5'
1	153°03.4'	S 9°03.0'	124°11.4'	S 15°51.7'	75°21.6'	S 22°40.5'	46°06.4'	S 26°19.4'
2	168°03.9'	S 9°04.2'	139°13.6'	S 15°51.8'	90°24.1'	S 22°40.5'	61°09.0'	S 26°19.3'
3	183°04.4'	S 9°05.3'	154°15.7'	S 15°51.9'	105°26.6'	S 22°40.5'	76°11.6'	S 26°19.2'
4	198°04.9'	S 9°06.4'	169°17.9'	S 15°52.0'	120°29.1'	S 22°40.5'	91°14.1'	S 26°19.1'
5	213°05.4'	S 9°07.6'	184°20.1'	S 15°52.1'	135°31.7'	S 22°40.5'	106°16.7'	S 26°19.0'
6	228°05.8'	S 9°08.7'	199°22.2'	S 15°52.2'	150°34.2'	S 22°40.5'	121°19.3'	S 26°18.9'
7	243°06.3'	S 9°09.8'	214°24.4'	S 15°52.3'	165°36.7'	S 22°40.5'	136°21.9'	S 26°18.8'
8	258°06.8'	S 9°11.0'	229°26.6'	S 15°52.4'	180°39.2'	S 22°40.5'	151°24.5'	S 26°18.7'
9	273°07.3'	S 9°12.1'	244°28.7'	S 15°52.5'	195°41.7'	S 22°40.5'	166°27.0'	S 26°18.6'
10	288°07.8'	S 9°13.2'	259°30.9'	S 15°52.5'	210°44.2'	S 22°40.5'	181°29.6'	S 26°18.5'
11	303°08.2'	S 9°14.4'	274°33.0'	S 15°52.6'	225°46.8'	S 22°40.6'	196°32.2'	S 26°18.4'
12	318°08.7'	S 9°15.5'	289°35.2'	S 15°52.7'	240°49.3'	S 22°40.6'	211°34.7'	S 26°18.3'
13	333°09.2'	S 9°16.6'	304°37.4'	S 15°52.8'	255°51.8'	S 22°40.6'	226°37.3'	S 26°18.2'
14	348°09.7'	S 9°17.7'	319°39.5'	S 15°52.9'	270°54.3'	S 22°40.6'	241°39.9'	S 26°18.1'
15	3°10.2'	S 9°18.9'	334°41.7'	S 15°53.0'	285°56.8'	S 22°40.6'	256°42.4'	S 26°18.0'
16	18°10.7'	S 9°20.0'	349°43.8'	S 15°53.1'	300°59.3'	S 22°40.6'	271°45.0'	S 26°17.9'
17	33°11.2'	S 9°21.1'	4°46.0'	S 15°53.2'	316°01.8'	S 22°40.6'	286°47.6'	S 26°17.8'
18	48°11.7'	S 9°22.3'	19°48.1'	S 15°53.3'	331°04.4'	S 22°40.6'	301°50.1'	S 26°17.7'
19	63°12.1'	S 9°23.4'	34°50.3'	S 15°53.4'	346°06.9'	S 22°40.6'	316°52.7'	S 26°17.6'
20	78°12.6'	S 9°24.5'	49°52.5'	S 15°53.5'	1°09.4'	S 22°40.6'	331°55.3'	S 26°17.5'
21	93°13.1'	S 9°25.6'	64°54.6'	S 15°53.6'	16°11.9'	S 22°40.6'	346°57.8'	S 26°17.4'
22	108°13.6'	S 9°26.8'	79°56.8'	S 15°53.7'	31°14.4'	S 22°40.6'	2°00.4'	S 26°17.3'
23	123°14.1'	S 9°27.9'	94°58.9'	S 15°53.8'	46°16.9'	S 22°40.6'	17°02.9'	S 26°17.2'

Sun Aug 26, 2018 UTC

UTC	Venus -4.3		Jupiter -1.8		Saturn +0.3		Mars -2.3	
	v = 0.5' d = 1.1'		v = 2.2' d = 0.1'		v = 2.5' d = 0.0'		v = 2.5' d = 0.1'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	138°14.6'	S 9°29.0'	110°01.1'	S 15°53.9'	61°19.4'	S 22°40.6'	32°05.5'	S 26°17.1'
1	153°15.1'	S 9°30.1'	125°03.3'	S 15°54.0'	76°22.0'	S 22°40.7'	47°08.0'	S 26°16.9'
2	168°15.6'	S 9°31.3'	140°05.4'	S 15°54.1'	91°24.5'	S 22°40.7'	62°10.6'	S 26°16.8'
3	183°16.1'	S 9°32.4'	155°07.6'	S 15°54.2'	106°27.0'	S 22°40.7'	77°13.1'	S 26°16.7'
4	198°16.6'	S 9°33.5'	170°09.7'	S 15°54.3'	121°29.5'	S 22°40.7'	92°15.7'	S 26°16.6'
5	213°17.1'	S 9°34.6'	185°11.9'	S 15°54.4'	136°32.0'	S 22°40.7'	107°18.2'	S 26°16.5'
6	228°17.6'	S 9°35.8'	200°14.0'	S 15°54.5'	151°34.5'	S 22°40.7'	122°20.8'	S 26°16.4'
7	243°18.1'	S 9°36.9'	215°16.2'	S 15°54.6'	166°37.0'	S 22°40.7'	137°23.3'	S 26°16.3'
8	258°18.6'	S 9°38.0'	230°18.3'	S 15°54.7'	181°39.6'	S 22°40.7'	152°25.8'	S 26°16.2'
9	273°19.1'	S 9°39.1'	245°20.5'	S 15°54.8'	196°42.1'	S 22°40.7'	167°28.4'	S 26°16.1'
10	288°19.6'	S 9°40.2'	260°22.7'	S 15°54.9'	211°44.6'	S 22°40.7'	182°30.9'	S 26°15.9'
11	303°20.1'	S 9°41.4'	275°24.8'	S 15°55.0'	226°47.1'	S 22°40.7'	197°33.4'	S 26°15.8'
12	318°20.6'	S 9°42.5'	290°27.0'	S 15°55.1'	241°49.6'	S 22°40.7'	212°36.0'	S 26°15.7'
13	333°21.1'	S 9°43.6'	305°29.1'	S 15°55.2'	256°52.1'	S 22°40.7'	227°38.5'	S 26°15.6'
14	348°21.6'	S 9°44.7'	320°31.3'	S 15°55.3'	271°54.6'	S 22°40.7'	242°41.0'	S 26°15.5'
15	3°22.1'	S 9°45.8'	335°33.4'	S 15°55.4'	286°57.1'	S 22°40.8'	257°43.6'	S 26°15.4'
16	18°22.6'	S 9°47.0'	350°35.6'	S 15°55.5'	301°59.6'	S 22°40.8'	272°46.1'	S 26°15.3'
17	33°23.1'	S 9°48.1'	5°37.7'	S 15°55.6'	317°02.2'	S 22°40.8'	287°48.6'	S 26°15.1'
18	48°23.6'	S 9°49.2'	20°39.9'	S 15°55.7'	332°04.7'	S 22°40.8'	302°51.2'	S 26°15.0'
19	63°24.1'	S 9°50.3'	35°42.0'	S 15°55.8'	347°07.2'	S 22°40.8'	317°53.7'	S 26°14.9'
20	78°24.6'	S 9°51.4'	50°44.2'	S 15°55.9'	2°09.7'	S 22°40.8'	332°56.2'	S 26°14.8'
21	93°25.1'	S 9°52.5'	65°46.3'	S 15°56.0'	17°12.2'	S 22°40.8'	347°58.7'	S 26°14.7'
22	108°25.7'	S 9°53.7'	80°48.5'	S 15°56.1'	32°14.7'	S 22°40.8'	3°01.2'	S 26°14.6'
23	123°26.2'	S 9°54.8'	95°50.6'	S 15°56.2'	47°17.2'	S 22°40.8'	18°03.8'	S 26°14.4'

Mon Aug 27, 2018 UTC

UTC	Venus -4.3 v = 0.5' d = 1.1'		Jupiter -1.8 v = 2.1' d = 0.1'		Saturn +0.3 v = 2.5' d = 0.0'		Mars -2.3 v = 2.5' d = 0.1'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	138°26.7'	S 9°55.9'	110°52.8'	S 15°56.3'	62°19.7'	S 22°40.8'	33°06.3'	S 26°14.3'
1	153°27.2'	S 9°57.0'	125°54.9'	S 15°56.4'	77°22.2'	S 22°40.8'	48°08.8'	S 26°14.2'
2	168°27.7'	S 9°58.1'	140°57.1'	S 15°56.4'	92°24.7'	S 22°40.8'	63°11.3'	S 26°14.1'
3	183°28.2'	S 9°59.2'	155°59.2'	S 15°56.5'	107°27.3'	S 22°40.8'	78°13.8'	S 26°14.0'
4	198°28.7'	S 10°00.3'	171°01.4'	S 15°56.6'	122°29.8'	S 22°40.8'	93°16.3'	S 26°13.8'
5	213°29.3'	S 10°01.5'	186°03.6'	S 15°56.7'	137°32.3'	S 22°40.9'	108°18.8'	S 26°13.7'
6	228°29.8'	S 10°02.6'	201°05.7'	S 15°56.8'	152°34.8'	S 22°40.9'	123°21.3'	S 26°13.6'
7	243°30.3'	S 10°03.7'	216°07.9'	S 15°56.9'	167°37.3'	S 22°40.9'	138°23.8'	S 26°13.5'
8	258°30.8'	S 10°04.8'	231°10.0'	S 15°57.0'	182°39.8'	S 22°40.9'	153°26.4'	S 26°13.4'
9	273°31.3'	S 10°05.9'	246°12.2'	S 15°57.1'	197°42.3'	S 22°40.9'	168°28.9'	S 26°13.2'
10	288°31.9'	S 10°07.0'	261°14.3'	S 15°57.2'	212°44.8'	S 22°40.9'	183°31.4'	S 26°13.1'
11	303°32.4'	S 10°08.1'	276°16.4'	S 15°57.3'	227°47.3'	S 22°40.9'	198°33.9'	S 26°13.0'
12	318°32.9'	S 10°09.2'	291°18.6'	S 15°57.4'	242°49.8'	S 22°40.9'	213°36.4'	S 26°12.9'
13	333°33.4'	S 10°10.3'	306°20.7'	S 15°57.5'	257°52.3'	S 22°40.9'	228°38.8'	S 26°12.7'
14	348°33.9'	S 10°11.4'	321°22.9'	S 15°57.6'	272°54.8'	S 22°40.9'	243°41.3'	S 26°12.6'
15	3°34.5'	S 10°12.6'	336°25.0'	S 15°57.7'	287°57.3'	S 22°40.9'	258°43.8'	S 26°12.5'
16	18°35.0'	S 10°13.7'	351°27.2'	S 15°57.8'	302°59.9'	S 22°40.9'	273°46.3'	S 26°12.4'
17	33°35.5'	S 10°14.8'	6°29.3'	S 15°57.9'	318°02.4'	S 22°40.9'	288°48.8'	S 26°12.2'
18	48°36.0'	S 10°15.9'	21°31.5'	S 15°58.0'	333°04.9'	S 22°40.9'	303°51.3'	S 26°12.1'
19	63°36.6'	S 10°17.0'	36°33.6'	S 15°58.1'	348°07.4'	S 22°40.9'	318°53.8'	S 26°12.0'
20	78°37.1'	S 10°18.1'	51°35.8'	S 15°58.2'	3°09.9'	S 22°41.0'	333°56.3'	S 26°11.9'
21	93°37.6'	S 10°19.2'	66°37.9'	S 15°58.3'	18°12.4'	S 22°41.0'	348°58.8'	S 26°11.7'
22	108°38.2'	S 10°20.3'	81°40.1'	S 15°58.4'	33°14.9'	S 22°41.0'	4°01.3'	S 26°11.6'
23	123°38.7'	S 10°21.4'	96°42.2'	S 15°58.5'	48°17.4'	S 22°41.0'	19°03.7'	S 26°11.5'

Tue Aug 28, 2018 UTC

UTC	Venus -4.3 v = 0.5' d = 1.1'		Jupiter -1.8 v = 2.1' d = 0.1'		Saturn +0.3 v = 2.5' d = 0.0'		Mars -2.2 v = 2.5' d = 0.1'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	138°39.2'	S 10°22.5'	111°44.4'	S 15°58.6'	63°19.9'	S 22°41.0'	34°06.2'	S 26°11.3'
1	153°39.8'	S 10°23.6'	126°46.5'	S 15°58.7'	78°22.4'	S 22°41.0'	49°08.7'	S 26°11.2'
2	168°40.3'	S 10°24.7'	141°48.7'	S 15°58.8'	93°24.9'	S 22°41.0'	64°11.2'	S 26°11.1'
3	183°40.8'	S 10°25.8'	156°50.8'	S 15°58.9'	108°27.4'	S 22°41.0'	79°13.6'	S 26°10.9'
4	198°41.4'	S 10°26.9'	171°52.9'	S 15°59.0'	123°29.9'	S 22°41.0'	94°16.1'	S 26°10.8'
5	213°41.9'	S 10°28.0'	186°55.1'	S 15°59.1'	138°32.4'	S 22°41.0'	109°18.6'	S 26°10.7'
6	228°42.4'	S 10°29.1'	201°57.2'	S 15°59.2'	153°34.9'	S 22°41.0'	124°21.1'	S 26°10.6'
7	243°43.0'	S 10°30.2'	216°59.4'	S 15°59.3'	168°37.4'	S 22°41.0'	139°23.5'	S 26°10.4'
8	258°43.5'	S 10°31.3'	232°01.5'	S 15°59.4'	183°39.9'	S 22°41.0'	154°26.0'	S 26°10.3'
9	273°44.1'	S 10°32.4'	247°03.7'	S 15°59.5'	198°42.4'	S 22°41.0'	169°28.5'	S 26°10.2'
10	288°44.6'	S 10°33.5'	262°05.8'	S 15°59.6'	213°44.9'	S 22°41.1'	184°30.9'	S 26°10.0'
11	303°45.1'	S 10°34.6'	277°08.0'	S 15°59.7'	228°47.4'	S 22°41.1'	199°33.4'	S 26°09.9'
12	318°45.7'	S 10°35.7'	292°10.1'	S 15°59.8'	243°49.9'	S 22°41.1'	214°35.9'	S 26°09.8'
13	333°46.2'	S 10°36.8'	307°12.2'	S 15°59.9'	258°52.5'	S 22°41.1'	229°38.3'	S 26°09.6'
14	348°46.8'	S 10°37.9'	322°14.4'	S 16°00.0'	273°55.0'	S 22°41.1'	244°40.8'	S 26°09.5'
15	3°47.3'	S 10°39.0'	337°16.5'	S 16°00.1'	288°57.5'	S 22°41.1'	259°43.2'	S 26°09.4'
16	18°47.9'	S 10°40.1'	352°18.7'	S 16°00.2'	303°60.0'	S 22°41.1'	274°45.7'	S 26°09.2'
17	33°48.4'	S 10°41.2'	7°20.8'	S 16°00.3'	319°02.5'	S 22°41.1'	289°48.1'	S 26°09.1'
18	48°49.0'	S 10°42.3'	22°23.0'	S 16°00.4'	334°05.0'	S 22°41.1'	304°50.6'	S 26°08.9'
19	63°49.5'	S 10°43.4'	37°25.1'	S 16°00.5'	349°07.5'	S 22°41.1'	319°53.1'	S 26°08.8'
20	78°50.1'	S 10°44.5'	52°27.2'	S 16°00.6'	4°10.0'	S 22°41.1'	334°55.5'	S 26°08.7'
21	93°50.6'	S 10°45.6'	67°29.4'	S 16°00.7'	19°12.5'	S 22°41.1'	349°57.9'	S 26°08.5'
22	108°51.2'	S 10°46.7'	82°31.5'	S 16°00.8'	34°15.0'	S 22°41.1'	5°00.4'	S 26°08.4'
23	123°51.7'	S 10°47.8'	97°33.7'	S 16°00.9'	49°17.5'	S 22°41.1'	20°02.8'	S 26°08.3'

Wed Aug 29, 2018 UTC

UTC	Venus -4.3 v = 0.6' d = 1.1'		Jupiter -1.8 v = 2.1' d = 0.1'		Saturn +0.3 v = 2.5' d = 0.0'		Mars -2.2 v = 2.4' d = 0.1'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	138°52.3'	S 10°48.9'	112°35.8'	S 16°01.0'	64°20.0'	S 22°41.1'	35°05.3'	S 26°08.1'
1	153°52.8'	S 10°50.0'	127°37.9'	S 16°01.1'	79°22.5'	S 22°41.2'	50°07.7'	S 26°08.0'
2	168°53.4'	S 10°51.1'	142°40.1'	S 16°01.2'	94°25.0'	S 22°41.2'	65°10.2'	S 26°07.8'
3	183°53.9'	S 10°52.2'	157°42.2'	S 16°01.3'	109°27.5'	S 22°41.2'	80°12.6'	S 26°07.7'
4	198°54.5'	S 10°53.3'	172°44.4'	S 16°01.4'	124°30.0'	S 22°41.2'	95°15.0'	S 26°07.6'
5	213°55.0'	S 10°54.3'	187°46.5'	S 16°01.5'	139°32.5'	S 22°41.2'	110°17.5'	S 26°07.4'
6	228°55.6'	S 10°55.4'	202°48.6'	S 16°01.6'	154°35.0'	S 22°41.2'	125°19.9'	S 26°07.3'
7	243°56.2'	S 10°56.5'	217°50.8'	S 16°01.7'	169°37.5'	S 22°41.2'	140°22.4'	S 26°07.1'
8	258°56.7'	S 10°57.6'	232°52.9'	S 16°01.8'	184°40.0'	S 22°41.2'	155°24.8'	S 26°07.0'
9	273°57.3'	S 10°58.7'	247°55.1'	S 16°02.0'	199°42.5'	S 22°41.2'	170°27.2'	S 26°06.8'
10	288°57.8'	S 10°59.8'	262°57.2'	S 16°02.1'	214°45.0'	S 22°41.2'	185°29.6'	S 26°06.7'
11	303°58.4'	S 11°00.9'	277°59.3'	S 16°02.2'	229°47.5'	S 22°41.2'	200°32.1'	S 26°06.6'
12	318°59.0'	S 11°02.0'	293°01.5'	S 16°02.3'	244°50.0'	S 22°41.2'	215°34.5'	S 26°06.4'
13	333°59.5'	S 11°03.1'	308°03.6'	S 16°02.4'	259°52.5'	S 22°41.2'	230°36.9'	S 26°06.3'
14	349°00.1'	S 11°04.1'	323°05.8'	S 16°02.5'	274°55.0'	S 22°41.2'	245°39.3'	S 26°06.1'
15	4°00.7'	S 11°05.2'	338°07.9'	S 16°02.6'	289°57.5'	S 22°41.2'	260°41.8'	S 26°06.0'
16	19°01.2'	S 11°06.3'	353°10.0'	S 16°02.7'	304°60.0'	S 22°41.3'	275°44.2'	S 26°05.8'
17	34°01.8'	S 11°07.4'	8°12.2'	S 16°02.8'	320°02.5'	S 22°41.3'	290°46.6'	S 26°05.7'
18	49°02.4'	S 11°08.5'	23°14.3'	S 16°02.9'	335°05.0'	S 22°41.3'	305°49.0'	S 26°05.5'
19	64°02.9'	S 11°09.6'	38°16.4'	S 16°03.0'	350°07.5'	S 22°41.3'	320°51.4'	S 26°05.4'
20	79°03.5'	S 11°10.7'	53°18.6'	S 16°03.1'	5°10.0'	S 22°41.3'	335°53.9'	S 26°05.3'
21	94°04.1'	S 11°11.7'	68°20.7'	S 16°03.2'	20°12.5'	S 22°41.3'	350°56.3'	S 26°05.1'
22	109°04.6'	S 11°12.8'	83°22.8'	S 16°03.3'	35°14.9'	S 22°41.3'	5°58.7'	S 26°05.0'
23	124°05.2'	S 11°13.9'	98°25.0'	S 16°03.4'	50°17.4'	S 22°41.3'	21°01.1'	S 26°04.8'

Thu Aug 30, 2018 UTC

UTC	Venus -4.3 v = 0.6' d = 1.1'		Jupiter -1.8 v = 2.1' d = 0.1'		Saturn +0.4 v = 2.5' d = 0.0'		Mars -2.2 v = 2.4' d = 0.2'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	139°05.8'	S 11°15.0'	113°27.1'	S 16°03.5'	65°19.9'	S 22°41.3'	36°03.5'	S 26°04.7'
1	154°06.4'	S 11°16.1'	128°29.3'	S 16°03.6'	80°22.4'	S 22°41.3'	51°05.9'	S 26°04.5'
2	169°06.9'	S 11°17.1'	143°31.4'	S 16°03.7'	95°24.9'	S 22°41.3'	66°08.3'	S 26°04.4'
3	184°07.5'	S 11°18.2'	158°33.5'	S 16°03.8'	110°27.4'	S 22°41.3'	81°10.7'	S 26°04.2'
4	199°08.1'	S 11°19.3'	173°35.7'	S 16°03.9'	125°29.9'	S 22°41.3'	96°13.1'	S 26°04.1'
5	214°08.7'	S 11°20.4'	188°37.8'	S 16°04.0'	140°32.4'	S 22°41.3'	111°15.5'	S 26°03.9'
6	229°09.2'	S 11°21.5'	203°39.9'	S 16°04.1'	155°34.9'	S 22°41.3'	126°17.9'	S 26°03.8'
7	244°09.8'	S 11°22.5'	218°42.1'	S 16°04.2'	170°37.4'	S 22°41.4'	141°20.3'	S 26°03.6'
8	259°10.4'	S 11°23.6'	233°44.2'	S 16°04.3'	185°39.9'	S 22°41.4'	156°22.7'	S 26°03.5'
9	274°11.0'	S 11°24.7'	248°46.3'	S 16°04.4'	200°42.4'	S 22°41.4'	171°25.1'	S 26°03.3'
10	289°11.6'	S 11°25.8'	263°48.5'	S 16°04.5'	215°44.9'	S 22°41.4'	186°27.5'	S 26°03.2'
11	304°12.2'	S 11°26.9'	278°50.6'	S 16°04.6'	230°47.4'	S 22°41.4'	201°29.9'	S 26°03.0'
12	319°12.7'	S 11°27.9'	293°52.7'	S 16°04.7'	245°49.9'	S 22°41.4'	216°32.3'	S 26°02.9'
13	334°13.3'	S 11°29.0'	308°54.9'	S 16°04.8'	260°52.4'	S 22°41.4'	231°34.7'	S 26°02.7'
14	349°13.9'	S 11°30.1'	323°57.0'	S 16°04.9'	275°54.9'	S 22°41.4'	246°37.1'	S 26°02.5'
15	4°14.5'	S 11°31.2'	338°59.1'	S 16°05.0'	290°57.4'	S 22°41.4'	261°39.4'	S 26°02.4'
16	19°15.1'	S 11°32.2'	354°01.3'	S 16°05.1'	305°59.9'	S 22°41.4'	276°41.8'	S 26°02.2'
17	34°15.7'	S 11°33.3'	9°03.4'	S 16°05.2'	321°02.4'	S 22°41.4'	291°44.2'	S 26°02.1'
18	49°16.3'	S 11°34.4'	24°05.5'	S 16°05.3'	336°04.9'	S 22°41.4'	306°46.6'	S 26°01.9'
19	64°16.9'	S 11°35.4'	39°07.6'	S 16°05.4'	351°07.3'	S 22°41.4'	321°49.0'	S 26°01.8'
20	79°17.5'	S 11°36.5'	54°09.8'	S 16°05.5'	6°09.8'	S 22°41.4'	336°51.3'	S 26°01.6'
21	94°18.1'	S 11°37.6'	69°11.9'	S 16°05.6'	21°12.3'	S 22°41.4'	351°53.7'	S 26°01.5'
22	109°18.6'	S 11°38.7'	84°14.0'	S 16°05.7'	36°14.8'	S 22°41.5'	6°56.1'	S 26°01.3'
23	124°19.2'	S 11°39.7'	99°16.2'	S 16°05.8'	51°17.3'	S 22°41.5'	21°58.5'	S 26°01.1'

Fri Aug 31, 2018 UTC

UTC	Venus -4.4 v = 0.6' d = 1.1'		Jupiter -1.8 v = 2.1' d = 0.1'		Saturn +0.4 v = 2.5' d = 0.0'		Mars -2.1 v = 2.4' d = 0.2'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	139°19.8'	S 11°40.8'	114°18.3'	S 16°05.9'	66°19.8'	S 22°41.5'	37°00.8'	S 26°01.0'
1	154°20.4'	S 11°41.9'	129°20.4'	S 16°06.0'	81°22.3'	S 22°41.5'	52°03.2'	S 26°00.8'
2	169°21.0'	S 11°42.9'	144°22.6'	S 16°06.1'	96°24.8'	S 22°41.5'	67°05.6'	S 26°00.7'
3	184°21.6'	S 11°44.0'	159°24.7'	S 16°06.3'	111°27.3'	S 22°41.5'	82°07.9'	S 26°00.5'
4	199°22.2'	S 11°45.1'	174°26.8'	S 16°06.4'	126°29.8'	S 22°41.5'	97°10.3'	S 26°00.3'
5	214°22.8'	S 11°46.1'	189°28.9'	S 16°06.5'	141°32.3'	S 22°41.5'	112°12.7'	S 26°00.2'
6	229°23.4'	S 11°47.2'	204°31.1'	S 16°06.6'	156°34.8'	S 22°41.5'	127°15.0'	S 26°00.0'
7	244°24.0'	S 11°48.3'	219°33.2'	S 16°06.7'	171°37.2'	S 22°41.5'	142°17.4'	S 25°59.9'
8	259°24.6'	S 11°49.3'	234°35.3'	S 16°06.8'	186°39.7'	S 22°41.5'	157°19.8'	S 25°59.7'
9	274°25.2'	S 11°50.4'	249°37.5'	S 16°06.9'	201°42.2'	S 22°41.5'	172°22.1'	S 25°59.5'
10	289°25.8'	S 11°51.5'	264°39.6'	S 16°07.0'	216°44.7'	S 22°41.5'	187°24.5'	S 25°59.4'
11	304°26.5'	S 11°52.5'	279°41.7'	S 16°07.1'	231°47.2'	S 22°41.5'	202°26.8'	S 25°59.2'
12	319°27.1'	S 11°53.6'	294°43.8'	S 16°07.2'	246°49.7'	S 22°41.5'	217°29.2'	S 25°59.1'
13	334°27.7'	S 11°54.7'	309°46.0'	S 16°07.3'	261°52.2'	S 22°41.6'	232°31.5'	S 25°58.9'
14	349°28.3'	S 11°55.7'	324°48.1'	S 16°07.4'	276°54.7'	S 22°41.6'	247°33.9'	S 25°58.7'
15	4°28.9'	S 11°56.8'	339°50.2'	S 16°07.5'	291°57.2'	S 22°41.6'	262°36.2'	S 25°58.6'
16	19°29.5'	S 11°57.9'	354°52.4'	S 16°07.6'	306°59.7'	S 22°41.6'	277°38.6'	S 25°58.4'
17	34°30.1'	S 11°58.9'	9°54.5'	S 16°07.7'	322°02.2'	S 22°41.6'	292°40.9'	S 25°58.2'
18	49°30.7'	S 11°60.0'	24°56.6'	S 16°07.8'	337°04.6'	S 22°41.6'	307°43.3'	S 25°58.1'
19	64°31.3'	S 12°01.0'	39°58.7'	S 16°07.9'	352°07.1'	S 22°41.6'	322°45.6'	S 25°57.9'
20	79°32.0'	S 12°02.1'	55°00.9'	S 16°08.0'	7°09.6'	S 22°41.6'	337°48.0'	S 25°57.7'
21	94°32.6'	S 12°03.2'	70°03.0'	S 16°08.1'	22°12.1'	S 22°41.6'	352°50.3'	S 25°57.6'
22	109°33.2'	S 12°04.2'	85°05.1'	S 16°08.2'	37°14.6'	S 22°41.6'	7°52.7'	S 25°57.4'
23	124°33.8'	S 12°05.3'	100°07.2'	S 16°08.3'	52°17.1'	S 22°41.6'	22°55.0'	S 25°57.2'