

Fri Jun 1, 2018 UTC

UTC	Venus -3.9 v = -0.8' d = 0.3'		Jupiter -2.3 v = 2.7' d = 0.1'		Saturn +0.1 v = 2.6' d = 0.0'		Mars -1.3 v = 1.7' d = 0.0'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	143°06.8'	N 24°29.7'	25°55.9'	S 15°20.5'	331°06.2'	S 22°20.1'	300°57.4'	S 21°43.0'
1	158°06.1'	N 24°29.4'	40°58.6'	S 15°20.4'	346°08.8'	S 22°20.1'	315°59.1'	S 21°42.9'
2	173°05.3'	N 24°29.1'	56°01.3'	S 15°20.4'	1°11.5'	S 22°20.1'	331°00.7'	S 21°42.9'
3	188°04.5'	N 24°28.8'	71°04.1'	S 15°20.3'	16°14.1'	S 22°20.1'	346°02.4'	S 21°42.9'
4	203°03.8'	N 24°28.5'	86°06.8'	S 15°20.2'	31°16.7'	S 22°20.1'	1°04.1'	S 21°42.9'
5	218°03.0'	N 24°28.2'	101°09.5'	S 15°20.2'	46°19.4'	S 22°20.1'	16°05.8'	S 21°42.8'
6	233°02.2'	N 24°28.0'	116°12.2'	S 15°20.1'	61°22.0'	S 22°20.1'	31°07.5'	S 21°42.8'
7	248°01.5'	N 24°27.7'	131°15.0'	S 15°20.0'	76°24.6'	S 22°20.1'	46°09.2'	S 21°42.8'
8	263°00.7'	N 24°27.4'	146°17.7'	S 15°20.0'	91°27.2'	S 22°20.1'	61°10.9'	S 21°42.8'
9	277°59.9'	N 24°27.1'	161°20.4'	S 15°19.9'	106°29.9'	S 22°20.1'	76°12.6'	S 21°42.8'
10	292°59.2'	N 24°26.8'	176°23.1'	S 15°19.8'	121°32.5'	S 22°20.2'	91°14.3'	S 21°42.7'
11	307°58.4'	N 24°26.5'	191°25.9'	S 15°19.8'	136°35.1'	S 22°20.2'	106°16.0'	S 21°42.7'
12	322°57.6'	N 24°26.2'	206°28.6'	S 15°19.7'	151°37.8'	S 22°20.2'	121°17.7'	S 21°42.7'
13	337°56.9'	N 24°25.9'	221°31.3'	S 15°19.6'	166°40.4'	S 22°20.2'	136°19.4'	S 21°42.7'
14	352°56.1'	N 24°25.6'	236°34.0'	S 15°19.6'	181°43.0'	S 22°20.2'	151°21.1'	S 21°42.7'
15	7°55.3'	N 24°25.3'	251°36.8'	S 15°19.5'	196°45.7'	S 22°20.2'	166°22.8'	S 21°42.6'
16	22°54.6'	N 24°25.0'	266°39.5'	S 15°19.4'	211°48.3'	S 22°20.2'	181°24.6'	S 21°42.6'
17	37°53.8'	N 24°24.7'	281°42.2'	S 15°19.4'	226°50.9'	S 22°20.2'	196°26.3'	S 21°42.6'
18	52°53.0'	N 24°24.4'	296°44.9'	S 15°19.3'	241°53.5'	S 22°20.2'	211°28.0'	S 21°42.6'
19	67°52.3'	N 24°24.1'	311°47.7'	S 15°19.2'	256°56.2'	S 22°20.2'	226°29.7'	S 21°42.6'
20	82°51.5'	N 24°23.8'	326°50.4'	S 15°19.2'	271°58.8'	S 22°20.3'	241°31.4'	S 21°42.5'
21	97°50.8'	N 24°23.4'	341°53.1'	S 15°19.1'	287°01.4'	S 22°20.3'	256°33.1'	S 21°42.5'
22	112°50.0'	N 24°23.1'	356°55.8'	S 15°19.0'	302°04.1'	S 22°20.3'	271°34.8'	S 21°42.5'
23	127°49.2'	N 24°22.8'	11°58.6'	S 15°19.0'	317°06.7'	S 22°20.3'	286°36.5'	S 21°42.5'

Sat Jun 2, 2018 UTC

UTC	Venus -3.9 v = -0.8' d = 0.3'		Jupiter -2.3 v = 2.7' d = 0.1'		Saturn +0.1 v = 2.6' d = 0.0'		Mars -1.3 v = 1.7' d = 0.0'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	142°48.5'	N 24°22.5'	27°01.3'	S 15°18.9'	332°09.3'	S 22°20.3'	301°38.2'	S 21°42.5'
1	157°47.7'	N 24°22.2'	42°04.0'	S 15°18.8'	347°12.0'	S 22°20.3'	316°40.0'	S 21°42.5'
2	172°47.0'	N 24°21.9'	57°06.7'	S 15°18.7'	2°14.6'	S 22°20.3'	331°41.7'	S 21°42.4'
3	187°46.2'	N 24°21.6'	72°09.5'	S 15°18.7'	17°17.2'	S 22°20.3'	346°43.4'	S 21°42.4'
4	202°45.4'	N 24°21.3'	87°12.2'	S 15°18.6'	32°19.8'	S 22°20.3'	1°45.1'	S 21°42.4'
5	217°44.7'	N 24°20.9'	102°14.9'	S 15°18.5'	47°22.5'	S 22°20.4'	16°46.8'	S 21°42.4'
6	232°43.9'	N 24°20.6'	117°17.6'	S 15°18.5'	62°25.1'	S 22°20.4'	31°48.5'	S 21°42.4'
7	247°43.2'	N 24°20.3'	132°20.4'	S 15°18.4'	77°27.7'	S 22°20.4'	46°50.3'	S 21°42.4'
8	262°42.4'	N 24°20.0'	147°23.1'	S 15°18.3'	92°30.4'	S 22°20.4'	61°52.0'	S 21°42.3'
9	277°41.6'	N 24°19.6'	162°25.8'	S 15°18.3'	107°33.0'	S 22°20.4'	76°53.7'	S 21°42.3'
10	292°40.9'	N 24°19.3'	177°28.5'	S 15°18.2'	122°35.6'	S 22°20.4'	91°55.4'	S 21°42.3'
11	307°40.1'	N 24°19.0'	192°31.2'	S 15°18.1'	137°38.3'	S 22°20.4'	106°57.1'	S 21°42.3'
12	322°39.4'	N 24°18.7'	207°34.0'	S 15°18.1'	152°40.9'	S 22°20.4'	121°58.9'	S 21°42.3'
13	337°38.6'	N 24°18.3'	222°36.7'	S 15°18.0'	167°43.5'	S 22°20.4'	137°00.6'	S 21°42.3'
14	352°37.9'	N 24°18.0'	237°39.4'	S 15°17.9'	182°46.2'	S 22°20.4'	152°02.3'	S 21°42.3'
15	7°37.1'	N 24°17.7'	252°42.1'	S 15°17.9'	197°48.8'	S 22°20.5'	167°04.0'	S 21°42.2'
16	22°36.4'	N 24°17.4'	267°44.9'	S 15°17.8'	212°51.4'	S 22°20.5'	182°05.8'	S 21°42.2'
17	37°35.6'	N 24°17.0'	282°47.6'	S 15°17.7'	227°54.1'	S 22°20.5'	197°07.5'	S 21°42.2'
18	52°34.8'	N 24°16.7'	297°50.3'	S 15°17.7'	242°56.7'	S 22°20.5'	212°09.2'	S 21°42.2'
19	67°34.1'	N 24°16.4'	312°53.0'	S 15°17.6'	257°59.3'	S 22°20.5'	227°11.0'	S 21°42.2'
20	82°33.3'	N 24°16.0'	327°55.7'	S 15°17.5'	273°02.0'	S 22°20.5'	242°12.7'	S 21°42.2'
21	97°32.6'	N 24°15.7'	342°58.5'	S 15°17.5'	288°04.6'	S 22°20.5'	257°14.4'	S 21°42.2'
22	112°31.8'	N 24°15.3'	358°01.2'	S 15°17.4'	303°07.2'	S 22°20.5'	272°16.2'	S 21°42.2'
23	127°31.1'	N 24°15.0'	13°03.9'	S 15°17.3'	318°09.9'	S 22°20.5'	287°17.9'	S 21°42.1'

Sun Jun 3, 2018 UTC

UTC	Venus -3.9		Jupiter -2.3		Saturn +0.1		Mars -1.3	
	v = -0.7' d = 0.4'		v = 2.7' d = 0.1'		v = 2.6' d = 0.0'		v = 1.7' d = 0.0'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	142°30.3'	N 24°14.7'	28°06.6'	S 15°17.3'	333°12.5'	S 22°20.6'	302°19.6'	S 21°42.1'
1	157°29.6'	N 24°14.3'	43°09.3'	S 15°17.2'	348°15.1'	S 22°20.6'	317°21.4'	S 21°42.1'
2	172°28.8'	N 24°14.0'	58°12.1'	S 15°17.2'	3°17.8'	S 22°20.6'	332°23.1'	S 21°42.1'
3	187°28.1'	N 24°13.6'	73°14.8'	S 15°17.1'	18°20.4'	S 22°20.6'	347°24.9'	S 21°42.1'
4	202°27.3'	N 24°13.3'	88°17.5'	S 15°17.0'	33°23.0'	S 22°20.6'	2°26.6'	S 21°42.1'
5	217°26.6'	N 24°12.9'	103°20.2'	S 15°17.0'	48°25.7'	S 22°20.6'	17°28.3'	S 21°42.1'
6	232°25.8'	N 24°12.6'	118°22.9'	S 15°16.9'	63°28.3'	S 22°20.6'	32°30.1'	S 21°42.1'
7	247°25.1'	N 24°12.3'	133°25.6'	S 15°16.8'	78°30.9'	S 22°20.6'	47°31.8'	S 21°42.1'
8	262°24.3'	N 24°11.9'	148°28.4'	S 15°16.8'	93°33.6'	S 22°20.6'	62°33.6'	S 21°42.1'
9	277°23.6'	N 24°11.6'	163°31.1'	S 15°16.7'	108°36.2'	S 22°20.6'	77°35.3'	S 21°42.0'
10	292°22.8'	N 24°11.2'	178°33.8'	S 15°16.6'	123°38.8'	S 22°20.7'	92°37.0'	S 21°42.0'
11	307°22.1'	N 24°10.8'	193°36.5'	S 15°16.6'	138°41.5'	S 22°20.7'	107°38.8'	S 21°42.0'
12	322°21.4'	N 24°10.5'	208°39.2'	S 15°16.5'	153°44.1'	S 22°20.7'	122°40.5'	S 21°42.0'
13	337°20.6'	N 24°10.1'	223°41.9'	S 15°16.4'	168°46.7'	S 22°20.7'	137°42.3'	S 21°42.0'
14	352°19.9'	N 24°09.8'	238°44.7'	S 15°16.4'	183°49.4'	S 22°20.7'	152°44.0'	S 21°42.0'
15	7°19.1'	N 24°09.4'	253°47.4'	S 15°16.3'	198°52.0'	S 22°20.7'	167°45.8'	S 21°42.0'
16	22°18.4'	N 24°09.1'	268°50.1'	S 15°16.2'	213°54.6'	S 22°20.7'	182°47.5'	S 21°42.0'
17	37°17.6'	N 24°08.7'	283°52.8'	S 15°16.2'	228°57.3'	S 22°20.7'	197°49.3'	S 21°42.0'
18	52°16.9'	N 24°08.3'	298°55.5'	S 15°16.1'	243°59.9'	S 22°20.7'	212°51.0'	S 21°42.0'
19	67°16.1'	N 24°08.0'	313°58.2'	S 15°16.0'	259°02.5'	S 22°20.8'	227°52.8'	S 21°42.0'
20	82°15.4'	N 24°07.6'	329°01.0'	S 15°16.0'	274°05.2'	S 22°20.8'	242°54.6'	S 21°42.0'
21	97°14.7'	N 24°07.3'	344°03.7'	S 15°15.9'	289°07.8'	S 22°20.8'	257°56.3'	S 21°42.0'
22	112°13.9'	N 24°06.9'	359°06.4'	S 15°15.8'	304°10.4'	S 22°20.8'	272°58.1'	S 21°42.0'
23	127°13.2'	N 24°06.5'	14°09.1'	S 15°15.8'	319°13.1'	S 22°20.8'	287°59.8'	S 21°42.0'

Mon Jun 4, 2018 UTC

UTC	Venus -3.9		Jupiter -2.3		Saturn +0.1		Mars -1.4	
	v = -0.7' d = 0.4'		v = 2.7' d = 0.1'		v = 2.6' d = 0.0'		v = 1.8' d = 0.0'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	142°12.4'	N 24°06.2'	29°11.8'	S 15°15.7'	334°15.7'	S 22°20.8'	303°01.6'	S 21°42.0'
1	157°11.7'	N 24°05.8'	44°14.5'	S 15°15.7'	349°18.3'	S 22°20.8'	318°03.3'	S 21°41.9'
2	172°11.0'	N 24°05.4'	59°17.2'	S 15°15.6'	4°21.0'	S 22°20.8'	333°05.1'	S 21°41.9'
3	187°10.2'	N 24°05.0'	74°20.0'	S 15°15.5'	19°23.6'	S 22°20.8'	348°06.9'	S 21°41.9'
4	202°09.5'	N 24°04.7'	89°22.7'	S 15°15.5'	34°26.3'	S 22°20.9'	3°08.6'	S 21°41.9'
5	217°08.7'	N 24°04.3'	104°25.4'	S 15°15.4'	49°28.9'	S 22°20.9'	18°10.4'	S 21°41.9'
6	232°08.0'	N 24°03.9'	119°28.1'	S 15°15.3'	64°31.5'	S 22°20.9'	33°12.2'	S 21°41.9'
7	247°07.3'	N 24°03.5'	134°30.8'	S 15°15.3'	79°34.2'	S 22°20.9'	48°13.9'	S 21°41.9'
8	262°06.5'	N 24°03.2'	149°33.5'	S 15°15.2'	94°36.8'	S 22°20.9'	63°15.7'	S 21°41.9'
9	277°05.8'	N 24°02.8'	164°36.2'	S 15°15.1'	109°39.4'	S 22°20.9'	78°17.5'	S 21°41.9'
10	292°05.1'	N 24°02.4'	179°38.9'	S 15°15.1'	124°42.1'	S 22°20.9'	93°19.2'	S 21°41.9'
11	307°04.3'	N 24°02.0'	194°41.7'	S 15°15.0'	139°44.7'	S 22°20.9'	108°21.0'	S 21°41.9'
12	322°03.6'	N 24°01.6'	209°44.4'	S 15°14.9'	154°47.3'	S 22°20.9'	123°22.8'	S 21°41.9'
13	337°02.9'	N 24°01.3'	224°47.1'	S 15°14.9'	169°50.0'	S 22°20.9'	138°24.5'	S 21°41.9'
14	352°02.1'	N 24°00.9'	239°49.8'	S 15°14.8'	184°52.6'	S 22°21.0'	153°26.3'	S 21°41.9'
15	7°01.4'	N 24°00.5'	254°52.5'	S 15°14.8'	199°55.3'	S 22°21.0'	168°28.1'	S 21°41.9'
16	22°00.7'	N 24°00.1'	269°55.2'	S 15°14.7'	214°57.9'	S 22°21.0'	183°29.9'	S 21°41.9'
17	36°59.9'	N 23°59.7'	284°57.9'	S 15°14.6'	230°00.5'	S 22°21.0'	198°31.6'	S 21°41.9'
18	51°59.2'	N 23°59.3'	300°00.6'	S 15°14.6'	245°03.2'	S 22°21.0'	213°33.4'	S 21°41.9'
19	66°58.5'	N 23°58.9'	315°03.3'	S 15°14.5'	260°05.8'	S 22°21.0'	228°35.2'	S 21°41.9'
20	81°57.7'	N 23°58.6'	330°06.1'	S 15°14.4'	275°08.4'	S 22°21.0'	243°37.0'	S 21°41.9'
21	96°57.0'	N 23°58.2'	345°08.8'	S 15°14.4'	290°11.1'	S 22°21.0'	258°38.7'	S 21°41.9'
22	111°56.3'	N 23°57.8'	0°11.5'	S 15°14.3'	305°13.7'	S 22°21.0'	273°40.5'	S 21°41.9'
23	126°55.5'	N 23°57.4'	15°14.2'	S 15°14.2'	320°16.3'	S 22°21.1'	288°42.3'	S 21°41.9'

Tue Jun 5, 2018 UTC

UTC	Venus -3.9		Jupiter -2.3		Saturn +0.1		Mars -1.4	
	v = -0.7' d = 0.4'		v = 2.7' d = 0.1'		v = 2.6' d = 0.0'		v = 1.8' d = 0.0'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	141°54.8'	N 23°57.0'	30°16.9'	S 15°14.2'	335°19.0'	S 22°21.1'	303°44.1'	S 21°41.9'
1	156°54.1'	N 23°56.6'	45°19.6'	S 15°14.1'	350°21.6'	S 22°21.1'	318°45.9'	S 21°41.9'
2	171°53.3'	N 23°56.2'	60°22.3'	S 15°14.1'	5°24.3'	S 22°21.1'	333°47.6'	S 21°41.9'
3	186°52.6'	N 23°55.8'	75°25.0'	S 15°14.0'	20°26.9'	S 22°21.1'	348°49.4'	S 21°41.9'
4	201°51.9'	N 23°55.4'	90°27.7'	S 15°13.9'	35°29.5'	S 22°21.1'	3°51.2'	S 21°41.9'
5	216°51.2'	N 23°55.0'	105°30.4'	S 15°13.9'	50°32.2'	S 22°21.1'	18°53.0'	S 21°41.9'
6	231°50.4'	N 23°54.6'	120°33.1'	S 15°13.8'	65°34.8'	S 22°21.1'	33°54.8'	S 21°41.9'
7	246°49.7'	N 23°54.2'	135°35.9'	S 15°13.7'	80°37.5'	S 22°21.1'	48°56.6'	S 21°41.9'
8	261°49.0'	N 23°53.8'	150°38.6'	S 15°13.7'	95°40.1'	S 22°21.2'	63°58.4'	S 21°41.9'
9	276°48.3'	N 23°53.4'	165°41.3'	S 15°13.6'	110°42.7'	S 22°21.2'	79°00.2'	S 21°42.0'
10	291°47.5'	N 23°53.0'	180°44.0'	S 15°13.6'	125°45.4'	S 22°21.2'	94°02.0'	S 21°42.0'
11	306°46.8'	N 23°52.6'	195°46.7'	S 15°13.5'	140°48.0'	S 22°21.2'	109°03.8'	S 21°42.0'
12	321°46.1'	N 23°52.1'	210°49.4'	S 15°13.4'	155°50.6'	S 22°21.2'	124°05.5'	S 21°42.0'
13	336°45.4'	N 23°51.7'	225°52.1'	S 15°13.4'	170°53.3'	S 22°21.2'	139°07.3'	S 21°42.0'
14	351°44.6'	N 23°51.3'	240°54.8'	S 15°13.3'	185°55.9'	S 22°21.2'	154°09.1'	S 21°42.0'
15	6°43.9'	N 23°50.9'	255°57.5'	S 15°13.2'	200°58.6'	S 22°21.2'	169°10.9'	S 21°42.0'
16	21°43.2'	N 23°50.5'	271°00.2'	S 15°13.2'	216°01.2'	S 22°21.2'	184°12.7'	S 21°42.0'
17	36°42.5'	N 23°50.1'	286°02.9'	S 15°13.1'	231°03.8'	S 22°21.3'	199°14.5'	S 21°42.0'
18	51°41.8'	N 23°49.7'	301°05.6'	S 15°13.1'	246°06.5'	S 22°21.3'	214°16.3'	S 21°42.0'
19	66°41.0'	N 23°49.2'	316°08.3'	S 15°13.0'	261°09.1'	S 22°21.3'	229°18.1'	S 21°42.0'
20	81°40.3'	N 23°48.8'	331°11.0'	S 15°12.9'	276°11.8'	S 22°21.3'	244°19.9'	S 21°42.0'
21	96°39.6'	N 23°48.4'	346°13.7'	S 15°12.9'	291°14.4'	S 22°21.3'	259°21.7'	S 21°42.0'
22	111°38.9'	N 23°48.0'	1°16.4'	S 15°12.8'	306°17.0'	S 22°21.3'	274°23.5'	S 21°42.0'
23	126°38.2'	N 23°47.6'	16°19.1'	S 15°12.8'	321°19.7'	S 22°21.3'	289°25.3'	S 21°42.0'

Wed Jun 6, 2018 UTC

UTC	Venus -3.9		Jupiter -2.3		Saturn +0.1		Mars -1.4	
	v = -0.7' d = 0.4'		v = 2.7' d = 0.1'		v = 2.6' d = 0.0'		v = 1.8' d = 0.0'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	141°37.4'	N 23°47.1'	31°21.9'	S 15°12.7'	336°22.3'	S 22°21.3'	304°27.1'	S 21°42.1'
1	156°36.7'	N 23°46.7'	46°24.6'	S 15°12.6'	351°25.0'	S 22°21.3'	319°29.0'	S 21°42.1'
2	171°36.0'	N 23°46.3'	61°27.3'	S 15°12.6'	6°27.6'	S 22°21.3'	334°30.8'	S 21°42.1'
3	186°35.3'	N 23°45.9'	76°30.0'	S 15°12.5'	21°30.2'	S 22°21.4'	349°32.6'	S 21°42.1'
4	201°34.6'	N 23°45.4'	91°32.7'	S 15°12.4'	36°32.9'	S 22°21.4'	4°34.4'	S 21°42.1'
5	216°33.9'	N 23°45.0'	106°35.4'	S 15°12.4'	51°35.5'	S 22°21.4'	19°36.2'	S 21°42.1'
6	231°33.1'	N 23°44.6'	121°38.1'	S 15°12.3'	66°38.2'	S 22°21.4'	34°38.0'	S 21°42.1'
7	246°32.4'	N 23°44.2'	136°40.8'	S 15°12.3'	81°40.8'	S 22°21.4'	49°39.8'	S 21°42.1'
8	261°31.7'	N 23°43.7'	151°43.5'	S 15°12.2'	96°43.4'	S 22°21.4'	64°41.6'	S 21°42.1'
9	276°31.0'	N 23°43.3'	166°46.2'	S 15°12.1'	111°46.1'	S 22°21.4'	79°43.4'	S 21°42.1'
10	291°30.3'	N 23°42.9'	181°48.9'	S 15°12.1'	126°48.7'	S 22°21.4'	94°45.3'	S 21°42.2'
11	306°29.6'	N 23°42.4'	196°51.6'	S 15°12.0'	141°51.4'	S 22°21.4'	109°47.1'	S 21°42.2'
12	321°28.9'	N 23°42.0'	211°54.3'	S 15°12.0'	156°54.0'	S 22°21.5'	124°48.9'	S 21°42.2'
13	336°28.1'	N 23°41.5'	226°57.0'	S 15°11.9'	171°56.6'	S 22°21.5'	139°50.7'	S 21°42.2'
14	351°27.4'	N 23°41.1'	241°59.7'	S 15°11.8'	186°59.3'	S 22°21.5'	154°52.5'	S 21°42.2'
15	6°26.7'	N 23°40.7'	257°02.4'	S 15°11.8'	202°01.9'	S 22°21.5'	169°54.4'	S 21°42.2'
16	21°26.0'	N 23°40.2'	272°05.1'	S 15°11.7'	217°04.6'	S 22°21.5'	184°56.2'	S 21°42.2'
17	36°25.3'	N 23°39.8'	287°07.8'	S 15°11.7'	232°07.2'	S 22°21.5'	199°58.0'	S 21°42.2'
18	51°24.6'	N 23°39.3'	302°10.5'	S 15°11.6'	247°09.8'	S 22°21.5'	214°59.8'	S 21°42.3'
19	66°23.9'	N 23°38.9'	317°13.2'	S 15°11.5'	262°12.5'	S 22°21.5'	230°01.7'	S 21°42.3'
20	81°23.2'	N 23°38.5'	332°15.9'	S 15°11.5'	277°15.1'	S 22°21.5'	245°03.5'	S 21°42.3'
21	96°22.5'	N 23°38.0'	347°18.6'	S 15°11.4'	292°17.8'	S 22°21.6'	260°05.3'	S 21°42.3'
22	111°21.8'	N 23°37.6'	2°21.3'	S 15°11.4'	307°20.4'	S 22°21.6'	275°07.1'	S 21°42.3'
23	126°21.1'	N 23°37.1'	17°24.0'	S 15°11.3'	322°23.1'	S 22°21.6'	290°09.0'	S 21°42.3'

Thu Jun 7, 2018 UTC

UTC	Venus -3.9		Jupiter -2.3		Saturn +0.1		Mars -1.4	
	v = -0.7' d = 0.5'		v = 2.7' d = 0.1'		v = 2.6' d = 0.0'		v = 1.8' d = 0.0'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	141°20.4'	N 23°36.7'	32°26.7'	S 15°11.2'	337°25.7'	S 22°21.6'	305°10.8'	S 21°42.4'
1	156°19.6'	N 23°36.2'	47°29.4'	S 15°11.2'	352°28.3'	S 22°21.6'	320°12.6'	S 21°42.4'
2	171°18.9'	N 23°35.8'	62°32.1'	S 15°11.1'	7°31.0'	S 22°21.6'	335°14.5'	S 21°42.4'
3	186°18.2'	N 23°35.3'	77°34.8'	S 15°11.1'	22°33.6'	S 22°21.6'	350°16.3'	S 21°42.4'
4	201°17.5'	N 23°34.9'	92°37.5'	S 15°11.0'	37°36.3'	S 22°21.6'	5°18.1'	S 21°42.4'
5	216°16.8'	N 23°34.4'	107°40.2'	S 15°10.9'	52°38.9'	S 22°21.6'	20°20.0'	S 21°42.4'
6	231°16.1'	N 23°33.9'	122°42.9'	S 15°10.9'	67°41.5'	S 22°21.7'	35°21.8'	S 21°42.5'
7	246°15.4'	N 23°33.5'	137°45.6'	S 15°10.8'	82°44.2'	S 22°21.7'	50°23.6'	S 21°42.5'
8	261°14.7'	N 23°33.0'	152°48.3'	S 15°10.8'	97°46.8'	S 22°21.7'	65°25.5'	S 21°42.5'
9	276°14.0'	N 23°32.6'	167°51.0'	S 15°10.7'	112°49.5'	S 22°21.7'	80°27.3'	S 21°42.5'
10	291°13.3'	N 23°32.1'	182°53.7'	S 15°10.6'	127°52.1'	S 22°21.7'	95°29.2'	S 21°42.5'
11	306°12.6'	N 23°31.6'	197°56.4'	S 15°10.6'	142°54.8'	S 22°21.7'	110°31.0'	S 21°42.5'
12	321°11.9'	N 23°31.2'	212°59.1'	S 15°10.5'	157°57.4'	S 22°21.7'	125°32.8'	S 21°42.6'
13	336°11.2'	N 23°30.7'	228°01.7'	S 15°10.5'	173°00.0'	S 22°21.7'	140°34.7'	S 21°42.6'
14	351°10.5'	N 23°30.3'	243°04.4'	S 15°10.4'	188°02.7'	S 22°21.7'	155°36.5'	S 21°42.6'
15	6°09.8'	N 23°29.8'	258°07.1'	S 15°10.3'	203°05.3'	S 22°21.8'	170°38.4'	S 21°42.6'
16	21°09.1'	N 23°29.3'	273°09.8'	S 15°10.3'	218°08.0'	S 22°21.8'	185°40.2'	S 21°42.6'
17	36°08.4'	N 23°28.9'	288°12.5'	S 15°10.2'	233°10.6'	S 22°21.8'	200°42.1'	S 21°42.7'
18	51°07.7'	N 23°28.4'	303°15.2'	S 15°10.2'	248°13.3'	S 22°21.8'	215°43.9'	S 21°42.7'
19	66°07.0'	N 23°27.9'	318°17.9'	S 15°10.1'	263°15.9'	S 22°21.8'	230°45.8'	S 21°42.7'
20	81°06.3'	N 23°27.4'	333°20.6'	S 15°10.0'	278°18.5'	S 22°21.8'	245°47.6'	S 21°42.7'
21	96°05.6'	N 23°27.0'	348°23.3'	S 15°10.0'	293°21.2'	S 22°21.8'	260°49.5'	S 21°42.8'
22	111°05.0'	N 23°26.5'	3°26.0'	S 15°09.9'	308°23.8'	S 22°21.8'	275°51.3'	S 21°42.8'
23	126°04.3'	N 23°26.0'	18°28.7'	S 15°09.9'	323°26.5'	S 22°21.8'	290°53.2'	S 21°42.8'

Fri Jun 8, 2018 UTC

UTC	Venus -3.9		Jupiter -2.3		Saturn +0.1		Mars -1.5	
	v = -0.7' d = 0.5'		v = 2.7' d = 0.1'		v = 2.6' d = 0.0'		v = 1.9' d = 0.0'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	141°03.6'	N 23°25.5'	33°31.4'	S 15°09.8'	338°29.1'	S 22°21.9'	305°55.0'	S 21°42.8'
1	156°02.9'	N 23°25.1'	48°34.1'	S 15°09.8'	353°31.8'	S 22°21.9'	320°56.9'	S 21°42.8'
2	171°02.2'	N 23°24.6'	63°36.8'	S 15°09.7'	8°34.4'	S 22°21.9'	335°58.8'	S 21°42.9'
3	186°01.5'	N 23°24.1'	78°39.5'	S 15°09.6'	23°37.1'	S 22°21.9'	351°00.6'	S 21°42.9'
4	201°00.8'	N 23°23.6'	93°42.2'	S 15°09.6'	38°39.7'	S 22°21.9'	6°02.5'	S 21°42.9'
5	216°00.1'	N 23°23.2'	108°44.8'	S 15°09.5'	53°42.3'	S 22°21.9'	21°04.3'	S 21°42.9'
6	230°59.4'	N 23°22.7'	123°47.5'	S 15°09.5'	68°45.0'	S 22°21.9'	36°06.2'	S 21°43.0'
7	245°58.7'	N 23°22.2'	138°50.2'	S 15°09.4'	83°47.6'	S 22°21.9'	51°08.1'	S 21°43.0'
8	260°58.0'	N 23°21.7'	153°52.9'	S 15°09.4'	98°50.3'	S 22°21.9'	66°09.9'	S 21°43.0'
9	275°57.3'	N 23°21.2'	168°55.6'	S 15°09.3'	113°52.9'	S 22°22.0'	81°11.8'	S 21°43.0'
10	290°56.7'	N 23°20.7'	183°58.3'	S 15°09.2'	128°55.6'	S 22°22.0'	96°13.7'	S 21°43.1'
11	305°56.0'	N 23°20.2'	199°01.0'	S 15°09.2'	143°58.2'	S 22°22.0'	111°15.5'	S 21°43.1'
12	320°55.3'	N 23°19.8'	214°03.7'	S 15°09.1'	159°00.9'	S 22°22.0'	126°17.4'	S 21°43.1'
13	335°54.6'	N 23°19.3'	229°06.4'	S 15°09.1'	174°03.5'	S 22°22.0'	141°19.3'	S 21°43.2'
14	350°53.9'	N 23°18.8'	244°09.1'	S 15°09.0'	189°06.1'	S 22°22.0'	156°21.1'	S 21°43.2'
15	5°53.2'	N 23°18.3'	259°11.8'	S 15°08.9'	204°08.8'	S 22°22.0'	171°23.0'	S 21°43.2'
16	20°52.5'	N 23°17.8'	274°14.4'	S 15°08.9'	219°11.4'	S 22°22.0'	186°24.9'	S 21°43.2'
17	35°51.9'	N 23°17.3'	289°17.1'	S 15°08.8'	234°14.1'	S 22°22.0'	201°26.7'	S 21°43.3'
18	50°51.2'	N 23°16.8'	304°19.8'	S 15°08.8'	249°16.7'	S 22°22.1'	216°28.6'	S 21°43.3'
19	65°50.5'	N 23°16.3'	319°22.5'	S 15°08.7'	264°19.4'	S 22°22.1'	231°30.5'	S 21°43.3'
20	80°49.8'	N 23°15.8'	334°25.2'	S 15°08.7'	279°22.0'	S 22°22.1'	246°32.4'	S 21°43.4'
21	95°49.1'	N 23°15.3'	349°27.9'	S 15°08.6'	294°24.7'	S 22°22.1'	261°34.3'	S 21°43.4'
22	110°48.4'	N 23°14.8'	4°30.6'	S 15°08.5'	309°27.3'	S 22°22.1'	276°36.1'	S 21°43.4'
23	125°47.8'	N 23°14.3'	19°33.3'	S 15°08.5'	324°30.0'	S 22°22.1'	291°38.0'	S 21°43.4'

Sat Jun 9, 2018 UTC

UTC	Venus -3.9		Jupiter -2.3		Saturn +0.1		Mars -1.5	
	v = -0.7' d = 0.5'		v = 2.7' d = 0.1'		v = 2.6' d = 0.0'		v = 1.9' d = 0.0'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	140°47.1'	N 23°13.8'	34°36.0'	S 15°08.4'	339°32.6'	S 22°22.1'	306°39.9'	S 21°43.5'
1	155°46.4'	N 23°13.3'	49°38.6'	S 15°08.4'	354°35.2'	S 22°22.1'	321°41.8'	S 21°43.5'
2	170°45.7'	N 23°12.8'	64°41.3'	S 15°08.3'	9°37.9'	S 22°22.1'	336°43.7'	S 21°43.5'
3	185°45.0'	N 23°12.3'	79°44.0'	S 15°08.3'	24°40.5'	S 22°22.2'	351°45.5'	S 21°43.6'
4	200°44.4'	N 23°11.8'	94°46.7'	S 15°08.2'	39°43.2'	S 22°22.2'	6°47.4'	S 21°43.6'
5	215°43.7'	N 23°11.3'	109°49.4'	S 15°08.2'	54°45.8'	S 22°22.2'	21°49.3'	S 21°43.6'
6	230°43.0'	N 23°10.8'	124°52.1'	S 15°08.1'	69°48.5'	S 22°22.2'	36°51.2'	S 21°43.7'
7	245°42.3'	N 23°10.3'	139°54.8'	S 15°08.0'	84°51.1'	S 22°22.2'	51°53.1'	S 21°43.7'
8	260°41.6'	N 23°09.7'	154°57.4'	S 15°08.0'	99°53.8'	S 22°22.2'	66°55.0'	S 21°43.7'
9	275°41.0'	N 23°09.2'	170°00.1'	S 15°07.9'	114°56.4'	S 22°22.2'	81°56.9'	S 21°43.8'
10	290°40.3'	N 23°08.7'	185°02.8'	S 15°07.9'	129°59.1'	S 22°22.2'	96°58.8'	S 21°43.8'
11	305°39.6'	N 23°08.2'	200°05.5'	S 15°07.8'	145°01.7'	S 22°22.2'	112°00.7'	S 21°43.8'
12	320°38.9'	N 23°07.7'	215°08.2'	S 15°07.8'	160°04.4'	S 22°22.3'	127°02.6'	S 21°43.9'
13	335°38.3'	N 23°07.2'	230°10.9'	S 15°07.7'	175°07.0'	S 22°22.3'	142°04.4'	S 21°43.9'
14	350°37.6'	N 23°06.7'	245°13.6'	S 15°07.7'	190°09.6'	S 22°22.3'	157°06.3'	S 21°43.9'
15	5°36.9'	N 23°06.1'	260°16.2'	S 15°07.6'	205°12.3'	S 22°22.3'	172°08.2'	S 21°44.0'
16	20°36.3'	N 23°05.6'	275°18.9'	S 15°07.5'	220°14.9'	S 22°22.3'	187°10.1'	S 21°44.0'
17	35°35.6'	N 23°05.1'	290°21.6'	S 15°07.5'	235°17.6'	S 22°22.3'	202°12.0'	S 21°44.0'
18	50°34.9'	N 23°04.6'	305°24.3'	S 15°07.4'	250°20.2'	S 22°22.3'	217°13.9'	S 21°44.1'
19	65°34.2'	N 23°04.1'	320°27.0'	S 15°07.4'	265°22.9'	S 22°22.3'	232°15.8'	S 21°44.1'
20	80°33.6'	N 23°03.5'	335°29.7'	S 15°07.3'	280°25.5'	S 22°22.3'	247°17.7'	S 21°44.1'
21	95°32.9'	N 23°03.0'	350°32.3'	S 15°07.3'	295°28.2'	S 22°22.4'	262°19.6'	S 21°44.2'
22	110°32.2'	N 23°02.5'	5°35.0'	S 15°07.2'	310°30.8'	S 22°22.4'	277°21.6'	S 21°44.2'
23	125°31.6'	N 23°02.0'	20°37.7'	S 15°07.2'	325°33.5'	S 22°22.4'	292°23.5'	S 21°44.3'

Sun Jun 10, 2018 UTC

UTC	Venus -3.9		Jupiter -2.3		Saturn +0.1		Mars -1.5	
	v = -0.7' d = 0.5'		v = 2.7' d = 0.1'		v = 2.6' d = 0.0'		v = 1.9' d = 0.0'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	140°30.9'	N 23°01.4'	35°40.4'	S 15°07.1'	340°36.1'	S 22°22.4'	307°25.4'	S 21°44.3'
1	155°30.2'	N 23°00.9'	50°43.1'	S 15°07.0'	355°38.8'	S 22°22.4'	322°27.3'	S 21°44.3'
2	170°29.6'	N 23°00.4'	65°45.7'	S 15°07.0'	10°41.4'	S 22°22.4'	337°29.2'	S 21°44.4'
3	185°28.9'	N 22°59.8'	80°48.4'	S 15°06.9'	25°44.1'	S 22°22.4'	352°31.1'	S 21°44.4'
4	200°28.2'	N 22°59.3'	95°51.1'	S 15°06.9'	40°46.7'	S 22°22.4'	7°33.0'	S 21°44.5'
5	215°27.6'	N 22°58.8'	110°53.8'	S 15°06.8'	55°49.4'	S 22°22.4'	22°34.9'	S 21°44.5'
6	230°26.9'	N 22°58.2'	125°56.5'	S 15°06.8'	70°52.0'	S 22°22.5'	37°36.8'	S 21°44.5'
7	245°26.2'	N 22°57.7'	140°59.2'	S 15°06.7'	85°54.7'	S 22°22.5'	52°38.7'	S 21°44.6'
8	260°25.6'	N 22°57.2'	156°01.8'	S 15°06.7'	100°57.3'	S 22°22.5'	67°40.7'	S 21°44.6'
9	275°24.9'	N 22°56.6'	171°04.5'	S 15°06.6'	115°59.9'	S 22°22.5'	82°42.6'	S 21°44.7'
10	290°24.3'	N 22°56.1'	186°07.2'	S 15°06.6'	131°02.6'	S 22°22.5'	97°44.5'	S 21°44.7'
11	305°23.6'	N 22°55.6'	201°09.9'	S 15°06.5'	146°05.2'	S 22°22.5'	112°46.4'	S 21°44.7'
12	320°22.9'	N 22°55.0'	216°12.5'	S 15°06.4'	161°07.9'	S 22°22.5'	127°48.3'	S 21°44.8'
13	335°22.3'	N 22°54.5'	231°15.2'	S 15°06.4'	176°10.5'	S 22°22.5'	142°50.3'	S 21°44.8'
14	350°21.6'	N 22°53.9'	246°17.9'	S 15°06.3'	191°13.2'	S 22°22.5'	157°52.2'	S 21°44.9'
15	5°21.0'	N 22°53.4'	261°20.6'	S 15°06.3'	206°15.8'	S 22°22.6'	172°54.1'	S 21°44.9'
16	20°20.3'	N 22°52.8'	276°23.3'	S 15°06.2'	221°18.5'	S 22°22.6'	187°56.0'	S 21°45.0'
17	35°19.6'	N 22°52.3'	291°25.9'	S 15°06.2'	236°21.1'	S 22°22.6'	202°58.0'	S 21°45.0'
18	50°19.0'	N 22°51.7'	306°28.6'	S 15°06.1'	251°23.8'	S 22°22.6'	217°59.9'	S 21°45.0'
19	65°18.3'	N 22°51.2'	321°31.3'	S 15°06.1'	266°26.4'	S 22°22.6'	233°01.8'	S 21°45.1'
20	80°17.7'	N 22°50.6'	336°34.0'	S 15°06.0'	281°29.1'	S 22°22.6'	248°03.7'	S 21°45.1'
21	95°17.0'	N 22°50.1'	351°36.6'	S 15°06.0'	296°31.7'	S 22°22.6'	263°05.7'	S 21°45.2'
22	110°16.4'	N 22°49.5'	6°39.3'	S 15°05.9'	311°34.4'	S 22°22.6'	278°07.6'	S 21°45.2'
23	125°15.7'	N 22°49.0'	21°42.0'	S 15°05.9'	326°37.0'	S 22°22.6'	293°09.5'	S 21°45.3'

Mon Jun 11, 2018 UTC

UTC	Venus -3.9		Jupiter -2.3		Saturn +0.1		Mars -1.6	
	v = -0.6' d = 0.6'		v = 2.7' d = 0.1'		v = 2.7' d = 0.0'		v = 1.9' d = 0.1'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	140°15.1'	N 22°48.4'	36°44.7'	S 15°05.8'	341°39.7'	S 22°22.7'	308°11.5'	S 21°45.3'
1	155°14.4'	N 22°47.9'	51°47.4'	S 15°05.7'	356°42.3'	S 22°22.7'	323°13.4'	S 21°45.4'
2	170°13.7'	N 22°47.3'	66°50.0'	S 15°05.7'	11°45.0'	S 22°22.7'	338°15.3'	S 21°45.4'
3	185°13.1'	N 22°46.8'	81°52.7'	S 15°05.6'	26°47.6'	S 22°22.7'	353°17.3'	S 21°45.5'
4	200°12.4'	N 22°46.2'	96°55.4'	S 15°05.6'	41°50.3'	S 22°22.7'	8°19.2'	S 21°45.5'
5	215°11.8'	N 22°45.7'	111°58.1'	S 15°05.5'	56°52.9'	S 22°22.7'	23°21.2'	S 21°45.5'
6	230°11.1'	N 22°45.1'	127°00.7'	S 15°05.5'	71°55.6'	S 22°22.7'	38°23.1'	S 21°45.6'
7	245°10.5'	N 22°44.5'	142°03.4'	S 15°05.4'	86°58.2'	S 22°22.7'	53°25.0'	S 21°45.6'
8	260°09.8'	N 22°44.0'	157°06.1'	S 15°05.4'	102°00.9'	S 22°22.7'	68°27.0'	S 21°45.7'
9	275°09.2'	N 22°43.4'	172°08.7'	S 15°05.3'	117°03.5'	S 22°22.8'	83°28.9'	S 21°45.7'
10	290°08.5'	N 22°42.9'	187°11.4'	S 15°05.3'	132°06.2'	S 22°22.8'	98°30.9'	S 21°45.8'
11	305°07.9'	N 22°42.3'	202°14.1'	S 15°05.2'	147°08.8'	S 22°22.8'	113°32.8'	S 21°45.8'
12	320°07.3'	N 22°41.7'	217°16.8'	S 15°05.2'	162°11.5'	S 22°22.8'	128°34.8'	S 21°45.9'
13	335°06.6'	N 22°41.2'	232°19.4'	S 15°05.1'	177°14.1'	S 22°22.8'	143°36.7'	S 21°45.9'
14	350°06.0'	N 22°40.6'	247°22.1'	S 15°05.1'	192°16.8'	S 22°22.8'	158°38.7'	S 21°46.0'
15	5°05.3'	N 22°40.0'	262°24.8'	S 15°05.0'	207°19.4'	S 22°22.8'	173°40.6'	S 21°46.0'
16	20°04.7'	N 22°39.4'	277°27.5'	S 15°05.0'	222°22.1'	S 22°22.8'	188°42.6'	S 21°46.1'
17	35°04.0'	N 22°38.9'	292°30.1'	S 15°04.9'	237°24.7'	S 22°22.9'	203°44.5'	S 21°46.1'
18	50°03.4'	N 22°38.3'	307°32.8'	S 15°04.9'	252°27.4'	S 22°22.9'	218°46.5'	S 21°46.2'
19	65°02.7'	N 22°37.7'	322°35.5'	S 15°04.8'	267°30.0'	S 22°22.9'	233°48.4'	S 21°46.2'
20	80°02.1'	N 22°37.2'	337°38.1'	S 15°04.8'	282°32.7'	S 22°22.9'	248°50.4'	S 21°46.3'
21	95°01.5'	N 22°36.6'	352°40.8'	S 15°04.7'	297°35.3'	S 22°22.9'	263°52.4'	S 21°46.4'
22	110°00.8'	N 22°36.0'	7°43.5'	S 15°04.7'	312°38.0'	S 22°22.9'	278°54.3'	S 21°46.4'
23	125°00.2'	N 22°35.4'	22°46.2'	S 15°04.6'	327°40.6'	S 22°22.9'	293°56.3'	S 21°46.5'

Tue Jun 12, 2018 UTC

UTC	Venus -3.9		Jupiter -2.3		Saturn +0.1		Mars -1.6	
	v = -0.6' d = 0.6'		v = 2.7' d = 0.1'		v = 2.7' d = 0.0'		v = 2.0' d = 0.1'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	139°59.5'	N 22°34.9'	37°48.8'	S 15°04.5'	342°43.3'	S 22°22.9'	308°58.2'	S 21°46.5'
1	154°58.9'	N 22°34.3'	52°51.5'	S 15°04.5'	357°45.9'	S 22°22.9'	324°00.2'	S 21°46.6'
2	169°58.3'	N 22°33.7'	67°54.2'	S 15°04.4'	12°48.6'	S 22°23.0'	339°02.2'	S 21°46.6'
3	184°57.6'	N 22°33.1'	82°56.8'	S 15°04.4'	27°51.2'	S 22°23.0'	354°04.1'	S 21°46.7'
4	199°57.0'	N 22°32.5'	97°59.5'	S 15°04.3'	42°53.9'	S 22°23.0'	9°06.1'	S 21°46.7'
5	214°56.3'	N 22°31.9'	113°02.2'	S 15°04.3'	57°56.5'	S 22°23.0'	24°08.1'	S 21°46.8'
6	229°55.7'	N 22°31.4'	128°04.8'	S 15°04.2'	72°59.2'	S 22°23.0'	39°10.0'	S 21°46.8'
7	244°55.1'	N 22°30.8'	143°07.5'	S 15°04.2'	88°01.8'	S 22°23.0'	54°12.0'	S 21°46.9'
8	259°54.4'	N 22°30.2'	158°10.2'	S 15°04.1'	103°04.5'	S 22°23.0'	69°14.0'	S 21°47.0'
9	274°53.8'	N 22°29.6'	173°12.8'	S 15°04.1'	118°07.1'	S 22°23.0'	84°15.9'	S 21°47.0'
10	289°53.2'	N 22°29.0'	188°15.5'	S 15°04.0'	133°09.8'	S 22°23.0'	99°17.9'	S 21°47.1'
11	304°52.5'	N 22°28.4'	203°18.2'	S 15°04.0'	148°12.4'	S 22°23.1'	114°19.9'	S 21°47.1'
12	319°51.9'	N 22°27.8'	218°20.8'	S 15°03.9'	163°15.1'	S 22°23.1'	129°21.9'	S 21°47.2'
13	334°51.3'	N 22°27.2'	233°23.5'	S 15°03.9'	178°17.7'	S 22°23.1'	144°23.8'	S 21°47.2'
14	349°50.6'	N 22°26.6'	248°26.2'	S 15°03.8'	193°20.4'	S 22°23.1'	159°25.8'	S 21°47.3'
15	4°50.0'	N 22°26.1'	263°28.8'	S 15°03.8'	208°23.0'	S 22°23.1'	174°27.8'	S 21°47.4'
16	19°49.4'	N 22°25.5'	278°31.5'	S 15°03.7'	223°25.7'	S 22°23.1'	189°29.8'	S 21°47.4'
17	34°48.7'	N 22°24.9'	293°34.2'	S 15°03.7'	238°28.4'	S 22°23.1'	204°31.7'	S 21°47.5'
18	49°48.1'	N 22°24.3'	308°36.8'	S 15°03.6'	253°31.0'	S 22°23.1'	219°33.7'	S 21°47.5'
19	64°47.5'	N 22°23.7'	323°39.5'	S 15°03.6'	268°33.7'	S 22°23.1'	234°35.7'	S 21°47.6'
20	79°46.9'	N 22°23.1'	338°42.2'	S 15°03.5'	283°36.3'	S 22°23.2'	249°37.7'	S 21°47.7'
21	94°46.2'	N 22°22.5'	353°44.8'	S 15°03.5'	298°39.0'	S 22°23.2'	264°39.7'	S 21°47.7'
22	109°45.6'	N 22°21.9'	8°47.5'	S 15°03.4'	313°41.6'	S 22°23.2'	279°41.7'	S 21°47.8'
23	124°45.0'	N 22°21.3'	23°50.2'	S 15°03.4'	328°44.3'	S 22°23.2'	294°43.7'	S 21°47.8'

Wed Jun 13, 2018 UTC

UTC	Venus -3.9		Jupiter -2.3		Saturn +0.1		Mars -1.6	
	v = -0.6' d = 0.6'		v = 2.7' d = 0.0'		v = 2.7' d = 0.0'		v = 2.0' d = 0.1'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	139°44.4'	N 22°20.7'	38°52.8'	S 15°03.3'	343°46.9'	S 22°23.2'	309°45.6'	S 21°47.9'
1	154°43.7'	N 22°20.1'	53°55.5'	S 15°03.3'	358°49.6'	S 22°23.2'	324°47.6'	S 21°48.0'
2	169°43.1'	N 22°19.5'	68°58.2'	S 15°03.2'	13°52.2'	S 22°23.2'	339°49.6'	S 21°48.0'
3	184°42.5'	N 22°18.9'	84°00.8'	S 15°03.2'	28°54.9'	S 22°23.2'	354°51.6'	S 21°48.1'
4	199°41.9'	N 22°18.2'	99°03.5'	S 15°03.1'	43°57.5'	S 22°23.2'	9°53.6'	S 21°48.2'
5	214°41.2'	N 22°17.6'	114°06.1'	S 15°03.1'	59°00.2'	S 22°23.3'	24°55.6'	S 21°48.2'
6	229°40.6'	N 22°17.0'	129°08.8'	S 15°03.0'	74°02.8'	S 22°23.3'	39°57.6'	S 21°48.3'
7	244°40.0'	N 22°16.4'	144°11.5'	S 15°03.0'	89°05.5'	S 22°23.3'	54°59.6'	S 21°48.4'
8	259°39.4'	N 22°15.8'	159°14.1'	S 15°02.9'	104°08.1'	S 22°23.3'	70°01.6'	S 21°48.4'
9	274°38.8'	N 22°15.2'	174°16.8'	S 15°02.9'	119°10.8'	S 22°23.3'	85°03.6'	S 21°48.5'
10	289°38.1'	N 22°14.6'	189°19.4'	S 15°02.9'	134°13.4'	S 22°23.3'	100°05.6'	S 21°48.5'
11	304°37.5'	N 22°14.0'	204°22.1'	S 15°02.8'	149°16.1'	S 22°23.3'	115°07.6'	S 21°48.6'
12	319°36.9'	N 22°13.4'	219°24.8'	S 15°02.8'	164°18.7'	S 22°23.3'	130°09.6'	S 21°48.7'
13	334°36.3'	N 22°12.7'	234°27.4'	S 15°02.7'	179°21.4'	S 22°23.4'	145°11.6'	S 21°48.7'
14	349°35.7'	N 22°12.1'	249°30.1'	S 15°02.7'	194°24.1'	S 22°23.4'	160°13.6'	S 21°48.8'
15	4°35.0'	N 22°11.5'	264°32.7'	S 15°02.6'	209°26.7'	S 22°23.4'	175°15.6'	S 21°48.9'
16	19°34.4'	N 22°10.9'	279°35.4'	S 15°02.6'	224°29.4'	S 22°23.4'	190°17.6'	S 21°48.9'
17	34°33.8'	N 22°10.3'	294°38.1'	S 15°02.5'	239°32.0'	S 22°23.4'	205°19.6'	S 21°49.0'
18	49°33.2'	N 22°09.6'	309°40.7'	S 15°02.5'	254°34.7'	S 22°23.4'	220°21.6'	S 21°49.1'
19	64°32.6'	N 22°09.0'	324°43.4'	S 15°02.4'	269°37.3'	S 22°23.4'	235°23.7'	S 21°49.2'
20	79°32.0'	N 22°08.4'	339°46.0'	S 15°02.4'	284°40.0'	S 22°23.4'	250°25.7'	S 21°49.2'
21	94°31.4'	N 22°07.8'	354°48.7'	S 15°02.3'	299°42.6'	S 22°23.4'	265°27.7'	S 21°49.3'
22	109°30.8'	N 22°07.1'	9°51.4'	S 15°02.3'	314°45.3'	S 22°23.5'	280°29.7'	S 21°49.4'
23	124°30.1'	N 22°06.5'	24°54.0'	S 15°02.2'	329°47.9'	S 22°23.5'	295°31.7'	S 21°49.4'

Thu Jun 14, 2018 UTC

UTC	Venus -3.9		Jupiter -2.2		Saturn +0.1		Mars -1.7	
	v = -0.6' d = 0.6'		v = 2.7' d = 0.0'		v = 2.7' d = 0.0'		v = 2.0' d = 0.1'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	139°29.5'	N 22°05.9'	39°56.7'	S 15°02.2'	344°50.6'	S 22°23.5'	310°33.7'	S 21°49.5'
1	154°28.9'	N 22°05.3'	54°59.3'	S 15°02.1'	359°53.2'	S 22°23.5'	325°35.7'	S 21°49.6'
2	169°28.3'	N 22°04.6'	70°02.0'	S 15°02.1'	14°55.9'	S 22°23.5'	340°37.8'	S 21°49.6'
3	184°27.7'	N 22°04.0'	85°04.6'	S 15°02.0'	29°58.6'	S 22°23.5'	355°39.8'	S 21°49.7'
4	199°27.1'	N 22°03.4'	100°07.3'	S 15°02.0'	45°01.2'	S 22°23.5'	10°41.8'	S 21°49.8'
5	214°26.5'	N 22°02.7'	115°10.0'	S 15°01.9'	60°03.9'	S 22°23.5'	25°43.8'	S 21°49.9'
6	229°25.9'	N 22°02.1'	130°12.6'	S 15°01.9'	75°06.5'	S 22°23.5'	40°45.9'	S 21°49.9'
7	244°25.3'	N 22°01.5'	145°15.3'	S 15°01.8'	90°09.2'	S 22°23.6'	55°47.9'	S 21°50.0'
8	259°24.7'	N 22°00.8'	160°17.9'	S 15°01.8'	105°11.8'	S 22°23.6'	70°49.9'	S 21°50.1'
9	274°24.1'	N 22°00.2'	175°20.6'	S 15°01.8'	120°14.5'	S 22°23.6'	85°51.9'	S 21°50.1'
10	289°23.5'	N 21°59.6'	190°23.2'	S 15°01.7'	135°17.1'	S 22°23.6'	100°54.0'	S 21°50.2'
11	304°22.9'	N 21°58.9'	205°25.9'	S 15°01.7'	150°19.8'	S 22°23.6'	115°56.0'	S 21°50.3'
12	319°22.3'	N 21°58.3'	220°28.5'	S 15°01.6'	165°22.4'	S 22°23.6'	130°58.0'	S 21°50.4'
13	334°21.6'	N 21°57.7'	235°31.2'	S 15°01.6'	180°25.1'	S 22°23.6'	146°00.1'	S 21°50.4'
14	349°21.0'	N 21°57.0'	250°33.9'	S 15°01.5'	195°27.7'	S 22°23.6'	161°02.1'	S 21°50.5'
15	4°20.4'	N 21°56.4'	265°36.5'	S 15°01.5'	210°30.4'	S 22°23.6'	176°04.1'	S 21°50.6'
16	19°19.8'	N 21°55.7'	280°39.2'	S 15°01.4'	225°33.1'	S 22°23.7'	191°06.2'	S 21°50.7'
17	34°19.2'	N 21°55.1'	295°41.8'	S 15°01.4'	240°35.7'	S 22°23.7'	206°08.2'	S 21°50.7'
18	49°18.6'	N 21°54.4'	310°44.5'	S 15°01.3'	255°38.4'	S 22°23.7'	221°10.2'	S 21°50.8'
19	64°18.0'	N 21°53.8'	325°47.1'	S 15°01.3'	270°41.0'	S 22°23.7'	236°12.3'	S 21°50.9'
20	79°17.4'	N 21°53.1'	340°49.8'	S 15°01.2'	285°43.7'	S 22°23.7'	251°14.3'	S 21°51.0'
21	94°16.9'	N 21°52.5'	355°52.4'	S 15°01.2'	300°46.3'	S 22°23.7'	266°16.4'	S 21°51.1'
22	109°16.3'	N 21°51.8'	10°55.1'	S 15°01.2'	315°49.0'	S 22°23.7'	281°18.4'	S 21°51.1'
23	124°15.7'	N 21°51.2'	25°57.7'	S 15°01.1'	330°51.6'	S 22°23.7'	296°20.4'	S 21°51.2'

Fri Jun 15, 2018 UTC

UTC	Venus -3.9		Jupiter -2.2		Saturn +0.1		Mars -1.7	
	v = -0.6' d = 0.7'		v = 2.6' d = 0.0'		v = 2.7' d = 0.0'		v = 2.1' d = 0.1'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	139°15.1'	N 21°50.5'	41°00.4'	S 15°01.1'	345°54.3'	S 22°23.8'	311°22.5'	S 21°51.3'
1	154°14.5'	N 21°49.9'	56°03.0'	S 15°01.0'	0°57.0'	S 22°23.8'	326°24.5'	S 21°51.4'
2	169°13.9'	N 21°49.2'	71°05.7'	S 15°01.0'	15°59.6'	S 22°23.8'	341°26.6'	S 21°51.4'
3	184°13.3'	N 21°48.6'	86°08.3'	S 15°00.9'	31°02.3'	S 22°23.8'	356°28.6'	S 21°51.5'
4	199°12.7'	N 21°47.9'	101°11.0'	S 15°00.9'	46°04.9'	S 22°23.8'	11°30.7'	S 21°51.6'
5	214°12.1'	N 21°47.3'	116°13.6'	S 15°00.8'	61°07.6'	S 22°23.8'	26°32.7'	S 21°51.7'
6	229°11.5'	N 21°46.6'	131°16.3'	S 15°00.8'	76°10.2'	S 22°23.8'	41°34.8'	S 21°51.8'
7	244°10.9'	N 21°46.0'	146°18.9'	S 15°00.7'	91°12.9'	S 22°23.8'	56°36.8'	S 21°51.8'
8	259°10.3'	N 21°45.3'	161°21.6'	S 15°00.7'	106°15.5'	S 22°23.8'	71°38.9'	S 21°51.9'
9	274°09.7'	N 21°44.6'	176°24.2'	S 15°00.7'	121°18.2'	S 22°23.9'	86°41.0'	S 21°52.0'
10	289°09.1'	N 21°44.0'	191°26.9'	S 15°00.6'	136°20.8'	S 22°23.9'	101°43.0'	S 21°52.1'
11	304°08.6'	N 21°43.3'	206°29.5'	S 15°00.6'	151°23.5'	S 22°23.9'	116°45.1'	S 21°52.2'
12	319°08.0'	N 21°42.7'	221°32.2'	S 15°00.5'	166°26.2'	S 22°23.9'	131°47.1'	S 21°52.3'
13	334°07.4'	N 21°42.0'	236°34.8'	S 15°00.5'	181°28.8'	S 22°23.9'	146°49.2'	S 21°52.3'
14	349°06.8'	N 21°41.3'	251°37.5'	S 15°00.4'	196°31.5'	S 22°23.9'	161°51.3'	S 21°52.4'
15	4°06.2'	N 21°40.7'	266°40.1'	S 15°00.4'	211°34.1'	S 22°23.9'	176°53.3'	S 21°52.5'
16	19°05.6'	N 21°40.0'	281°42.8'	S 15°00.3'	226°36.8'	S 22°23.9'	191°55.4'	S 21°52.6'
17	34°05.0'	N 21°39.3'	296°45.4'	S 15°00.3'	241°39.4'	S 22°23.9'	206°57.4'	S 21°52.7'
18	49°04.4'	N 21°38.7'	311°48.1'	S 15°00.3'	256°42.1'	S 22°24.0'	221°59.5'	S 21°52.8'
19	64°03.9'	N 21°38.0'	326°50.7'	S 15°00.2'	271°44.8'	S 22°24.0'	237°01.6'	S 21°52.8'
20	79°03.3'	N 21°37.3'	341°53.3'	S 15°00.2'	286°47.4'	S 22°24.0'	252°03.7'	S 21°52.9'
21	94°02.7'	N 21°36.7'	356°56.0'	S 15°00.1'	301°50.1'	S 22°24.0'	267°05.7'	S 21°53.0'
22	109°02.1'	N 21°36.0'	11°58.6'	S 15°00.1'	316°52.7'	S 22°24.0'	282°07.8'	S 21°53.1'
23	124°01.5'	N 21°35.3'	27°01.3'	S 15°00.0'	331°55.4'	S 22°24.0'	297°09.9'	S 21°53.2'

Sat Jun 16, 2018 UTC

UTC	Venus -3.9		Jupiter -2.2		Saturn +0.0		Mars -1.7	
	v = -0.6' d = 0.7'		v = 2.6' d = 0.0'		v = 2.7' d = 0.0'		v = 2.1' d = 0.1'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	139°01.0'	N 21°34.6'	42°03.9'	S 14°60.0'	346°58.0'	S 22°24.0'	312°11.9'	S 21°53.3'
1	154°00.4'	N 21°34.0'	57°06.6'	S 14°59.9'	2°00.7'	S 22°24.0'	327°14.0'	S 21°53.4'
2	168°59.8'	N 21°33.3'	72°09.2'	S 14°59.9'	17°03.3'	S 22°24.1'	342°16.1'	S 21°53.5'
3	183°59.2'	N 21°32.6'	87°11.9'	S 14°59.9'	32°06.0'	S 22°24.1'	357°18.2'	S 21°53.5'
4	198°58.6'	N 21°31.9'	102°14.5'	S 14°59.8'	47°08.7'	S 22°24.1'	12°20.3'	S 21°53.6'
5	213°58.1'	N 21°31.3'	117°17.1'	S 14°59.8'	62°11.3'	S 22°24.1'	27°22.3'	S 21°53.7'
6	228°57.5'	N 21°30.6'	132°19.8'	S 14°59.7'	77°14.0'	S 22°24.1'	42°24.4'	S 21°53.8'
7	243°56.9'	N 21°29.9'	147°22.4'	S 14°59.7'	92°16.6'	S 22°24.1'	57°26.5'	S 21°53.9'
8	258°56.3'	N 21°29.2'	162°25.1'	S 14°59.6'	107°19.3'	S 22°24.1'	72°28.6'	S 21°54.0'
9	273°55.8'	N 21°28.5'	177°27.7'	S 14°59.6'	122°21.9'	S 22°24.1'	87°30.7'	S 21°54.1'
10	288°55.2'	N 21°27.8'	192°30.4'	S 14°59.6'	137°24.6'	S 22°24.1'	102°32.8'	S 21°54.2'
11	303°54.6'	N 21°27.2'	207°33.0'	S 14°59.5'	152°27.3'	S 22°24.2'	117°34.8'	S 21°54.3'
12	318°54.0'	N 21°26.5'	222°35.6'	S 14°59.5'	167°29.9'	S 22°24.2'	132°36.9'	S 21°54.4'
13	333°53.5'	N 21°25.8'	237°38.3'	S 14°59.4'	182°32.6'	S 22°24.2'	147°39.0'	S 21°54.4'
14	348°52.9'	N 21°25.1'	252°40.9'	S 14°59.4'	197°35.2'	S 22°24.2'	162°41.1'	S 21°54.5'
15	3°52.3'	N 21°24.4'	267°43.6'	S 14°59.3'	212°37.9'	S 22°24.2'	177°43.2'	S 21°54.6'
16	18°51.8'	N 21°23.7'	282°46.2'	S 14°59.3'	227°40.5'	S 22°24.2'	192°45.3'	S 21°54.7'
17	33°51.2'	N 21°23.0'	297°48.8'	S 14°59.3'	242°43.2'	S 22°24.2'	207°47.4'	S 21°54.8'
18	48°50.6'	N 21°22.3'	312°51.5'	S 14°59.2'	257°45.9'	S 22°24.2'	222°49.5'	S 21°54.9'
19	63°50.1'	N 21°21.6'	327°54.1'	S 14°59.2'	272°48.5'	S 22°24.2'	237°51.6'	S 21°55.0'
20	78°49.5'	N 21°21.0'	342°56.8'	S 14°59.1'	287°51.2'	S 22°24.3'	252°53.7'	S 21°55.1'
21	93°48.9'	N 21°20.3'	357°59.4'	S 14°59.1'	302°53.8'	S 22°24.3'	267°55.8'	S 21°55.2'
22	108°48.4'	N 21°19.6'	13°02.0'	S 14°59.1'	317°56.5'	S 22°24.3'	282°57.9'	S 21°55.3'
23	123°47.8'	N 21°18.9'	28°04.7'	S 14°59.0'	332°59.1'	S 22°24.3'	297°60.0'	S 21°55.4'

Sun Jun 17, 2018 UTC

UTC	Venus -3.9		Jupiter -2.2		Saturn +0.0		Mars -1.8	
	v = -0.6' d = 0.7'		v = 2.6' d = 0.0'		v = 2.7' d = 0.0'		v = 2.1' d = 0.1'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	138°47.2'	N 21°18.2'	43°07.3'	S 14°59.0'	348°01.8'	S 22°24.3'	313°02.1'	S 21°55.5'
1	153°46.7'	N 21°17.5'	58°10.0'	S 14°58.9'	3°04.5'	S 22°24.3'	328°04.2'	S 21°55.6'
2	168°46.1'	N 21°16.8'	73°12.6'	S 14°58.9'	18°07.1'	S 22°24.3'	343°06.3'	S 21°55.7'
3	183°45.5'	N 21°16.1'	88°15.2'	S 14°58.8'	33°09.8'	S 22°24.3'	358°08.4'	S 21°55.8'
4	198°45.0'	N 21°15.4'	103°17.9'	S 14°58.8'	48°12.4'	S 22°24.4'	13°10.5'	S 21°55.9'
5	213°44.4'	N 21°14.7'	118°20.5'	S 14°58.8'	63°15.1'	S 22°24.4'	28°12.6'	S 21°56.0'
6	228°43.9'	N 21°14.0'	133°23.1'	S 14°58.7'	78°17.7'	S 22°24.4'	43°14.7'	S 21°56.1'
7	243°43.3'	N 21°13.3'	148°25.8'	S 14°58.7'	93°20.4'	S 22°24.4'	58°16.8'	S 21°56.2'
8	258°42.7'	N 21°12.6'	163°28.4'	S 14°58.6'	108°23.1'	S 22°24.4'	73°19.0'	S 21°56.3'
9	273°42.2'	N 21°11.9'	178°31.0'	S 14°58.6'	123°25.7'	S 22°24.4'	88°21.1'	S 21°56.3'
10	288°41.6'	N 21°11.2'	193°33.7'	S 14°58.6'	138°28.4'	S 22°24.4'	103°23.2'	S 21°56.4'
11	303°41.1'	N 21°10.4'	208°36.3'	S 14°58.5'	153°31.0'	S 22°24.4'	118°25.3'	S 21°56.5'
12	318°40.5'	N 21°09.7'	223°38.9'	S 14°58.5'	168°33.7'	S 22°24.4'	133°27.4'	S 21°56.6'
13	333°40.0'	N 21°09.0'	238°41.6'	S 14°58.4'	183°36.3'	S 22°24.5'	148°29.5'	S 21°56.7'
14	348°39.4'	N 21°08.3'	253°44.2'	S 14°58.4'	198°39.0'	S 22°24.5'	163°31.7'	S 21°56.8'
15	3°38.8'	N 21°07.6'	268°46.9'	S 14°58.4'	213°41.7'	S 22°24.5'	178°33.8'	S 21°56.9'
16	18°38.3'	N 21°06.9'	283°49.5'	S 14°58.3'	228°44.3'	S 22°24.5'	193°35.9'	S 21°57.0'
17	33°37.7'	N 21°06.2'	298°52.1'	S 14°58.3'	243°47.0'	S 22°24.5'	208°38.0'	S 21°57.2'
18	48°37.2'	N 21°05.5'	313°54.8'	S 14°58.2'	258°49.6'	S 22°24.5'	223°40.2'	S 21°57.3'
19	63°36.6'	N 21°04.8'	328°57.4'	S 14°58.2'	273°52.3'	S 22°24.5'	238°42.3'	S 21°57.4'
20	78°36.1'	N 21°04.0'	344°00.0'	S 14°58.2'	288°55.0'	S 22°24.5'	253°44.4'	S 21°57.5'
21	93°35.5'	N 21°03.3'	359°02.6'	S 14°58.1'	303°57.6'	S 22°24.5'	268°46.5'	S 21°57.6'
22	108°35.0'	N 21°02.6'	14°05.3'	S 14°58.1'	319°00.3'	S 22°24.6'	283°48.7'	S 21°57.7'
23	123°34.4'	N 21°01.9'	29°07.9'	S 14°58.0'	334°02.9'	S 22°24.6'	298°50.8'	S 21°57.8'

Mon Jun 18, 2018 UTC

UTC	Venus -3.9		Jupiter -2.2		Saturn +0.0		Mars -1.8	
	v = -0.5' d = 0.7'		v = 2.6' d = 0.0'		v = 2.7' d = 0.0'		v = 2.1' d = 0.1'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	138°33.9'	N 21°01.2'	44°10.5'	S 14°58.0'	349°05.6'	S 22°24.6'	313°52.9'	S 21°57.9'
1	153°33.3'	N 21°00.4'	59°13.2'	S 14°58.0'	4°08.2'	S 22°24.6'	328°55.1'	S 21°58.0'
2	168°32.8'	N 20°59.7'	74°15.8'	S 14°57.9'	19°10.9'	S 22°24.6'	343°57.2'	S 21°58.1'
3	183°32.2'	N 20°59.0'	89°18.4'	S 14°57.9'	34°13.6'	S 22°24.6'	358°59.3'	S 21°58.2'
4	198°31.7'	N 20°58.3'	104°21.1'	S 14°57.8'	49°16.2'	S 22°24.6'	14°01.5'	S 21°58.3'
5	213°31.1'	N 20°57.6'	119°23.7'	S 14°57.8'	64°18.9'	S 22°24.6'	29°03.6'	S 21°58.4'
6	228°30.6'	N 20°56.8'	134°26.3'	S 14°57.8'	79°21.5'	S 22°24.7'	44°05.8'	S 21°58.5'
7	243°30.1'	N 20°56.1'	149°29.0'	S 14°57.7'	94°24.2'	S 22°24.7'	59°07.9'	S 21°58.6'
8	258°29.5'	N 20°55.4'	164°31.6'	S 14°57.7'	109°26.9'	S 22°24.7'	74°10.1'	S 21°58.7'
9	273°29.0'	N 20°54.6'	179°34.2'	S 14°57.6'	124°29.5'	S 22°24.7'	89°12.2'	S 21°58.8'
10	288°28.4'	N 20°53.9'	194°36.8'	S 14°57.6'	139°32.2'	S 22°24.7'	104°14.3'	S 21°58.9'
11	303°27.9'	N 20°53.2'	209°39.5'	S 14°57.6'	154°34.8'	S 22°24.7'	119°16.5'	S 21°59.0'
12	318°27.4'	N 20°52.5'	224°42.1'	S 14°57.5'	169°37.5'	S 22°24.7'	134°18.6'	S 21°59.1'
13	333°26.8'	N 20°51.7'	239°44.7'	S 14°57.5'	184°40.1'	S 22°24.7'	149°20.8'	S 21°59.3'
14	348°26.3'	N 20°51.0'	254°47.4'	S 14°57.4'	199°42.8'	S 22°24.7'	164°22.9'	S 21°59.4'
15	3°25.7'	N 20°50.3'	269°50.0'	S 14°57.4'	214°45.5'	S 22°24.8'	179°25.1'	S 21°59.5'
16	18°25.2'	N 20°49.5'	284°52.6'	S 14°57.4'	229°48.1'	S 22°24.8'	194°27.2'	S 21°59.6'
17	33°24.7'	N 20°48.8'	299°55.2'	S 14°57.3'	244°50.8'	S 22°24.8'	209°29.4'	S 21°59.7'
18	48°24.1'	N 20°48.1'	314°57.9'	S 14°57.3'	259°53.4'	S 22°24.8'	224°31.5'	S 21°59.8'
19	63°23.6'	N 20°47.3'	330°00.5'	S 14°57.3'	274°56.1'	S 22°24.8'	239°33.7'	S 21°59.9'
20	78°23.1'	N 20°46.6'	345°03.1'	S 14°57.2'	289°58.8'	S 22°24.8'	254°35.9'	S 22°00.0'
21	93°22.5'	N 20°45.8'	0°05.7'	S 14°57.2'	305°01.4'	S 22°24.8'	269°38.0'	S 22°00.1'
22	108°22.0'	N 20°45.1'	15°08.4'	S 14°57.1'	320°04.1'	S 22°24.8'	284°40.2'	S 22°00.3'
23	123°21.5'	N 20°44.4'	30°11.0'	S 14°57.1'	335°06.7'	S 22°24.9'	299°42.3'	S 22°00.4'

Tue Jun 19, 2018 UTC

UTC	Venus -3.9		Jupiter -2.2		Saturn +0.0		Mars -1.8	
	v = -0.5' d = 0.8'		v = 2.6' d = 0.0'		v = 2.7' d = 0.0'		v = 2.2' d = 0.1'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	138°20.9'	N 20°43.6'	45°13.6'	S 14°57.1'	350°09.4'	S 22°24.9'	314°44.5'	S 22°00.5'
1	153°20.4'	N 20°42.9'	60°16.2'	S 14°57.0'	5°12.1'	S 22°24.9'	329°46.7'	S 22°00.6'
2	168°19.9'	N 20°42.1'	75°18.9'	S 14°57.0'	20°14.7'	S 22°24.9'	344°48.8'	S 22°00.7'
3	183°19.3'	N 20°41.4'	90°21.5'	S 14°57.0'	35°17.4'	S 22°24.9'	359°51.0'	S 22°00.8'
4	198°18.8'	N 20°40.7'	105°24.1'	S 14°56.9'	50°20.0'	S 22°24.9'	14°53.2'	S 22°00.9'
5	213°18.3'	N 20°39.9'	120°26.7'	S 14°56.9'	65°22.7'	S 22°24.9'	29°55.3'	S 22°01.0'
6	228°17.7'	N 20°39.2'	135°29.4'	S 14°56.8'	80°25.4'	S 22°24.9'	44°57.5'	S 22°01.2'
7	243°17.2'	N 20°38.4'	150°32.0'	S 14°56.8'	95°28.0'	S 22°24.9'	59°59.7'	S 22°01.3'
8	258°16.7'	N 20°37.7'	165°34.6'	S 14°56.8'	110°30.7'	S 22°25.0'	75°01.9'	S 22°01.4'
9	273°16.2'	N 20°36.9'	180°37.2'	S 14°56.7'	125°33.3'	S 22°25.0'	90°04.0'	S 22°01.5'
10	288°15.6'	N 20°36.2'	195°39.8'	S 14°56.7'	140°36.0'	S 22°25.0'	105°06.2'	S 22°01.6'
11	303°15.1'	N 20°35.4'	210°42.5'	S 14°56.7'	155°38.7'	S 22°25.0'	120°08.4'	S 22°01.7'
12	318°14.6'	N 20°34.7'	225°45.1'	S 14°56.6'	170°41.3'	S 22°25.0'	135°10.6'	S 22°01.9'
13	333°14.1'	N 20°33.9'	240°47.7'	S 14°56.6'	185°44.0'	S 22°25.0'	150°12.7'	S 22°02.0'
14	348°13.5'	N 20°33.2'	255°50.3'	S 14°56.6'	200°46.6'	S 22°25.0'	165°14.9'	S 22°02.1'
15	3°13.0'	N 20°32.4'	270°52.9'	S 14°56.5'	215°49.3'	S 22°25.0'	180°17.1'	S 22°02.2'
16	18°12.5'	N 20°31.6'	285°55.6'	S 14°56.5'	230°52.0'	S 22°25.0'	195°19.3'	S 22°02.3'
17	33°12.0'	N 20°30.9'	300°58.2'	S 14°56.4'	245°54.6'	S 22°25.1'	210°21.5'	S 22°02.4'
18	48°11.5'	N 20°30.1'	316°00.8'	S 14°56.4'	260°57.3'	S 22°25.1'	225°23.7'	S 22°02.6'
19	63°10.9'	N 20°29.4'	331°03.4'	S 14°56.4'	275°59.9'	S 22°25.1'	240°25.8'	S 22°02.7'
20	78°10.4'	N 20°28.6'	346°06.0'	S 14°56.3'	291°02.6'	S 22°25.1'	255°28.0'	S 22°02.8'
21	93°09.9'	N 20°27.9'	1°08.7'	S 14°56.3'	306°05.3'	S 22°25.1'	270°30.2'	S 22°02.9'
22	108°09.4'	N 20°27.1'	16°11.3'	S 14°56.3'	321°07.9'	S 22°25.1'	285°32.4'	S 22°03.0'
23	123°08.9'	N 20°26.3'	31°13.9'	S 14°56.2'	336°10.6'	S 22°25.1'	300°34.6'	S 22°03.2'

Wed Jun 20, 2018 UTC

UTC	Venus -3.9		Jupiter -2.2		Saturn +0.0		Mars -1.9	
	v = -0.5' d = 0.8'		v = 2.6' d = 0.0'		v = 2.7' d = 0.0'		v = 2.2' d = 0.1'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	138°08.3'	N 20°25.6'	46°16.5'	S 14°56.2'	351°13.2'	S 22°25.1'	315°36.8'	S 22°03.3'
1	153°07.8'	N 20°24.8'	61°19.1'	S 14°56.2'	6°15.9'	S 22°25.2'	330°39.0'	S 22°03.4'
2	168°07.3'	N 20°24.0'	76°21.8'	S 14°56.1'	21°18.6'	S 22°25.2'	345°41.2'	S 22°03.5'
3	183°06.8'	N 20°23.3'	91°24.4'	S 14°56.1'	36°21.2'	S 22°25.2'	0°43.4'	S 22°03.7'
4	198°06.3'	N 20°22.5'	106°27.0'	S 14°56.1'	51°23.9'	S 22°25.2'	15°45.6'	S 22°03.8'
5	213°05.8'	N 20°21.7'	121°29.6'	S 14°56.0'	66°26.5'	S 22°25.2'	30°47.8'	S 22°03.9'
6	228°05.3'	N 20°21.0'	136°32.2'	S 14°56.0'	81°29.2'	S 22°25.2'	45°50.0'	S 22°04.0'
7	243°04.8'	N 20°20.2'	151°34.8'	S 14°55.9'	96°31.9'	S 22°25.2'	60°52.2'	S 22°04.1'
8	258°04.2'	N 20°19.4'	166°37.5'	S 14°55.9'	111°34.5'	S 22°25.2'	75°54.4'	S 22°04.3'
9	273°03.7'	N 20°18.7'	181°40.1'	S 14°55.9'	126°37.2'	S 22°25.2'	90°56.6'	S 22°04.4'
10	288°03.2'	N 20°17.9'	196°42.7'	S 14°55.8'	141°39.8'	S 22°25.3'	105°58.8'	S 22°04.5'
11	303°02.7'	N 20°17.1'	211°45.3'	S 14°55.8'	156°42.5'	S 22°25.3'	121°01.0'	S 22°04.6'
12	318°02.2'	N 20°16.3'	226°47.9'	S 14°55.8'	171°45.2'	S 22°25.3'	136°03.2'	S 22°04.8'
13	333°01.7'	N 20°15.6'	241°50.5'	S 14°55.7'	186°47.8'	S 22°25.3'	151°05.4'	S 22°04.9'
14	348°01.2'	N 20°14.8'	256°53.1'	S 14°55.7'	201°50.5'	S 22°25.3'	166°07.6'	S 22°05.0'
15	3°00.7'	N 20°14.0'	271°55.8'	S 14°55.7'	216°53.1'	S 22°25.3'	181°09.8'	S 22°05.2'
16	18°00.2'	N 20°13.2'	286°58.4'	S 14°55.6'	231°55.8'	S 22°25.3'	196°12.1'	S 22°05.3'
17	32°59.7'	N 20°12.5'	302°01.0'	S 14°55.6'	246°58.5'	S 22°25.3'	211°14.3'	S 22°05.4'
18	47°59.2'	N 20°11.7'	317°03.6'	S 14°55.6'	262°01.1'	S 22°25.4'	226°16.5'	S 22°05.5'
19	62°58.7'	N 20°10.9'	332°06.2'	S 14°55.5'	277°03.8'	S 22°25.4'	241°18.7'	S 22°05.7'
20	77°58.2'	N 20°10.1'	347°08.8'	S 14°55.5'	292°06.4'	S 22°25.4'	256°20.9'	S 22°05.8'
21	92°57.7'	N 20°09.3'	2°11.4'	S 14°55.5'	307°09.1'	S 22°25.4'	271°23.1'	S 22°05.9'
22	107°57.2'	N 20°08.6'	17°14.0'	S 14°55.4'	322°11.8'	S 22°25.4'	286°25.4'	S 22°06.0'
23	122°56.7'	N 20°07.8'	32°16.7'	S 14°55.4'	337°14.4'	S 22°25.4'	301°27.6'	S 22°06.2'

Thu Jun 21, 2018 UTC

UTC	Venus -4.0		Jupiter -2.2		Saturn +0.0		Mars -1.9	
	v = -0.5' d = 0.8'		v = 2.6' d = 0.0'		v = 2.7' d = 0.0'		v = 2.2' d = 0.1'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	137°56.2'	N 20°07.0'	47°19.3'	S 14°55.4'	352°17.1'	S 22°25.4'	316°29.8'	S 22°06.3'
1	152°55.7'	N 20°06.2'	62°21.9'	S 14°55.3'	7°19.7'	S 22°25.4'	331°32.0'	S 22°06.4'
2	167°55.2'	N 20°05.4'	77°24.5'	S 14°55.3'	22°22.4'	S 22°25.4'	346°34.3'	S 22°06.6'
3	182°54.7'	N 20°04.6'	92°27.1'	S 14°55.3'	37°25.1'	S 22°25.5'	1°36.5'	S 22°06.7'
4	197°54.2'	N 20°03.9'	107°29.7'	S 14°55.2'	52°27.7'	S 22°25.5'	16°38.7'	S 22°06.8'
5	212°53.7'	N 20°03.1'	122°32.3'	S 14°55.2'	67°30.4'	S 22°25.5'	31°40.9'	S 22°07.0'
6	227°53.2'	N 20°02.3'	137°34.9'	S 14°55.2'	82°33.0'	S 22°25.5'	46°43.2'	S 22°07.1'
7	242°52.7'	N 20°01.5'	152°37.5'	S 14°55.1'	97°35.7'	S 22°25.5'	61°45.4'	S 22°07.2'
8	257°52.2'	N 20°00.7'	167°40.1'	S 14°55.1'	112°38.4'	S 22°25.5'	76°47.6'	S 22°07.4'
9	272°51.7'	N 19°59.9'	182°42.7'	S 14°55.1'	127°41.0'	S 22°25.5'	91°49.9'	S 22°07.5'
10	287°51.2'	N 19°59.1'	197°45.4'	S 14°55.0'	142°43.7'	S 22°25.5'	106°52.1'	S 22°07.6'
11	302°50.7'	N 19°58.3'	212°48.0'	S 14°55.0'	157°46.4'	S 22°25.5'	121°54.3'	S 22°07.8'
12	317°50.2'	N 19°57.5'	227°50.6'	S 14°55.0'	172°49.0'	S 22°25.6'	136°56.6'	S 22°07.9'
13	332°49.8'	N 19°56.7'	242°53.2'	S 14°54.9'	187°51.7'	S 22°25.6'	151°58.8'	S 22°08.0'
14	347°49.3'	N 19°55.9'	257°55.8'	S 14°54.9'	202°54.3'	S 22°25.6'	167°01.1'	S 22°08.2'
15	2°48.8'	N 19°55.1'	272°58.4'	S 14°54.9'	217°57.0'	S 22°25.6'	182°03.3'	S 22°08.3'
16	17°48.3'	N 19°54.3'	288°01.0'	S 14°54.8'	232°59.7'	S 22°25.6'	197°05.6'	S 22°08.4'
17	32°47.8'	N 19°53.5'	303°03.6'	S 14°54.8'	248°02.3'	S 22°25.6'	212°07.8'	S 22°08.6'
18	47°47.3'	N 19°52.7'	318°06.2'	S 14°54.8'	263°05.0'	S 22°25.6'	227°10.0'	S 22°08.7'
19	62°46.8'	N 19°51.9'	333°08.8'	S 14°54.7'	278°07.6'	S 22°25.6'	242°12.3'	S 22°08.8'
20	77°46.3'	N 19°51.1'	348°11.4'	S 14°54.7'	293°10.3'	S 22°25.7'	257°14.5'	S 22°09.0'
21	92°45.9'	N 19°50.3'	3°14.0'	S 14°54.7'	308°13.0'	S 22°25.7'	272°16.8'	S 22°09.1'
22	107°45.4'	N 19°49.5'	18°16.6'	S 14°54.7'	323°15.6'	S 22°25.7'	287°19.0'	S 22°09.3'
23	122°44.9'	N 19°48.7'	33°19.2'	S 14°54.6'	338°18.3'	S 22°25.7'	302°21.3'	S 22°09.4'

Fri Jun 22, 2018 UTC

UTC	Venus -4.0		Jupiter -2.2		Saturn +0.0		Mars -1.9	
	v = -0.5' d = 0.8'		v = 2.6' d = 0.0'		v = 2.7' d = 0.0'		v = 2.3' d = 0.1'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	137°44.4'	N 19°47.9'	48°21.8'	S 14°54.6'	353°20.9'	S 22°25.7'	317°23.5'	S 22°09.5'
1	152°43.9'	N 19°47.1'	63°24.4'	S 14°54.6'	8°23.6'	S 22°25.7'	332°25.8'	S 22°09.7'
2	167°43.4'	N 19°46.3'	78°27.0'	S 14°54.5'	23°26.3'	S 22°25.7'	347°28.1'	S 22°09.8'
3	182°43.0'	N 19°45.5'	93°29.7'	S 14°54.5'	38°28.9'	S 22°25.7'	2°30.3'	S 22°10.0'
4	197°42.5'	N 19°44.7'	108°32.3'	S 14°54.5'	53°31.6'	S 22°25.7'	17°32.6'	S 22°10.1'
5	212°42.0'	N 19°43.9'	123°34.9'	S 14°54.4'	68°34.3'	S 22°25.8'	32°34.8'	S 22°10.2'
6	227°41.5'	N 19°43.1'	138°37.5'	S 14°54.4'	83°36.9'	S 22°25.8'	47°37.1'	S 22°10.4'
7	242°41.0'	N 19°42.3'	153°40.1'	S 14°54.4'	98°39.6'	S 22°25.8'	62°39.4'	S 22°10.5'
8	257°40.6'	N 19°41.5'	168°42.7'	S 14°54.3'	113°42.2'	S 22°25.8'	77°41.6'	S 22°10.7'
9	272°40.1'	N 19°40.6'	183°45.3'	S 14°54.3'	128°44.9'	S 22°25.8'	92°43.9'	S 22°10.8'
10	287°39.6'	N 19°39.8'	198°47.9'	S 14°54.3'	143°47.6'	S 22°25.8'	107°46.2'	S 22°10.9'
11	302°39.1'	N 19°39.0'	213°50.5'	S 14°54.3'	158°50.2'	S 22°25.8'	122°48.4'	S 22°11.1'
12	317°38.7'	N 19°38.2'	228°53.1'	S 14°54.2'	173°52.9'	S 22°25.8'	137°50.7'	S 22°11.2'
13	332°38.2'	N 19°37.4'	243°55.7'	S 14°54.2'	188°55.5'	S 22°25.8'	152°53.0'	S 22°11.4'
14	347°37.7'	N 19°36.6'	258°58.3'	S 14°54.2'	203°58.2'	S 22°25.9'	167°55.2'	S 22°11.5'
15	2°37.3'	N 19°35.8'	274°00.9'	S 14°54.1'	219°00.9'	S 22°25.9'	182°57.5'	S 22°11.7'
16	17°36.8'	N 19°34.9'	289°03.5'	S 14°54.1'	234°03.5'	S 22°25.9'	197°59.8'	S 22°11.8'
17	32°36.3'	N 19°34.1'	304°06.1'	S 14°54.1'	249°06.2'	S 22°25.9'	213°02.1'	S 22°11.9'
18	47°35.8'	N 19°33.3'	319°08.7'	S 14°54.0'	264°08.9'	S 22°25.9'	228°04.3'	S 22°12.1'
19	62°35.4'	N 19°32.5'	334°11.3'	S 14°54.0'	279°11.5'	S 22°25.9'	243°06.6'	S 22°12.2'
20	77°34.9'	N 19°31.7'	349°13.9'	S 14°54.0'	294°14.2'	S 22°25.9'	258°08.9'	S 22°12.4'
21	92°34.4'	N 19°30.8'	4°16.5'	S 14°54.0'	309°16.8'	S 22°25.9'	273°11.2'	S 22°12.5'
22	107°34.0'	N 19°30.0'	19°19.1'	S 14°53.9'	324°19.5'	S 22°26.0'	288°13.5'	S 22°12.7'
23	122°33.5'	N 19°29.2'	34°21.7'	S 14°53.9'	339°22.2'	S 22°26.0'	303°15.7'	S 22°12.8'

Sat Jun 23, 2018 UTC

UTC	Venus -4.0		Jupiter -2.2		Saturn +0.0		Mars -2.0	
	v = -0.5' d = 0.8'		v = 2.6' d = 0.0'		v = 2.7' d = 0.0'		v = 2.3' d = 0.2'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	137°33.0'	N 19°28.4'	49°24.3'	S 14°53.9'	354°24.8'	S 22°26.0'	318°18.0'	S 22°13.0'
1	152°32.6'	N 19°27.5'	64°26.8'	S 14°53.8'	9°27.5'	S 22°26.0'	333°20.3'	S 22°13.1'
2	167°32.1'	N 19°26.7'	79°29.4'	S 14°53.8'	24°30.2'	S 22°26.0'	348°22.6'	S 22°13.3'
3	182°31.6'	N 19°25.9'	94°32.0'	S 14°53.8'	39°32.8'	S 22°26.0'	3°24.9'	S 22°13.4'
4	197°31.2'	N 19°25.1'	109°34.6'	S 14°53.7'	54°35.5'	S 22°26.0'	18°27.2'	S 22°13.6'
5	212°30.7'	N 19°24.2'	124°37.2'	S 14°53.7'	69°38.1'	S 22°26.0'	33°29.5'	S 22°13.7'
6	227°30.3'	N 19°23.4'	139°39.8'	S 14°53.7'	84°40.8'	S 22°26.0'	48°31.8'	S 22°13.9'
7	242°29.8'	N 19°22.6'	154°42.4'	S 14°53.7'	99°43.5'	S 22°26.1'	63°34.1'	S 22°14.0'
8	257°29.3'	N 19°21.7'	169°45.0'	S 14°53.6'	114°46.1'	S 22°26.1'	78°36.4'	S 22°14.2'
9	272°28.9'	N 19°20.9'	184°47.6'	S 14°53.6'	129°48.8'	S 22°26.1'	93°38.7'	S 22°14.3'
10	287°28.4'	N 19°20.1'	199°50.2'	S 14°53.6'	144°51.4'	S 22°26.1'	108°41.0'	S 22°14.5'
11	302°28.0'	N 19°19.2'	214°52.8'	S 14°53.5'	159°54.1'	S 22°26.1'	123°43.3'	S 22°14.6'
12	317°27.5'	N 19°18.4'	229°55.4'	S 14°53.5'	174°56.8'	S 22°26.1'	138°45.6'	S 22°14.8'
13	332°27.1'	N 19°17.6'	244°58.0'	S 14°53.5'	189°59.4'	S 22°26.1'	153°47.9'	S 22°14.9'
14	347°26.6'	N 19°16.7'	260°00.6'	S 14°53.5'	205°02.1'	S 22°26.1'	168°50.2'	S 22°15.1'
15	2°26.1'	N 19°15.9'	275°03.2'	S 14°53.4'	220°04.8'	S 22°26.2'	183°52.5'	S 22°15.2'
16	17°25.7'	N 19°15.1'	290°05.8'	S 14°53.4'	235°07.4'	S 22°26.2'	198°54.8'	S 22°15.4'
17	32°25.2'	N 19°14.2'	305°08.4'	S 14°53.4'	250°10.1'	S 22°26.2'	213°57.1'	S 22°15.5'
18	47°24.8'	N 19°13.4'	320°10.9'	S 14°53.4'	265°12.7'	S 22°26.2'	228°59.4'	S 22°15.7'
19	62°24.3'	N 19°12.5'	335°13.5'	S 14°53.3'	280°15.4'	S 22°26.2'	244°01.7'	S 22°15.8'
20	77°23.9'	N 19°11.7'	350°16.1'	S 14°53.3'	295°18.1'	S 22°26.2'	259°04.0'	S 22°16.0'
21	92°23.4'	N 19°10.9'	5°18.7'	S 14°53.3'	310°20.7'	S 22°26.2'	274°06.3'	S 22°16.1'
22	107°23.0'	N 19°10.0'	20°21.3'	S 14°53.2'	325°23.4'	S 22°26.2'	289°08.6'	S 22°16.3'
23	122°22.5'	N 19°09.2'	35°23.9'	S 14°53.2'	340°26.1'	S 22°26.2'	304°11.0'	S 22°16.5'

Sun Jun 24, 2018 UTC

UTC	Venus -4.0		Jupiter -2.2		Saturn +0.0		Mars -2.0	
	v = -0.4' d = 0.9'		v = 2.6' d = 0.0'		v = 2.7' d = 0.0'		v = 2.3' d = 0.2'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	137°22.1'	N 19°08.3'	50°26.5'	S 14°53.2'	355°28.7'	S 22°26.3'	319°13.3'	S 22°16.6'
1	152°21.6'	N 19°07.5'	65°29.1'	S 14°53.2'	10°31.4'	S 22°26.3'	334°15.6'	S 22°16.8'
2	167°21.2'	N 19°06.6'	80°31.7'	S 14°53.1'	25°34.0'	S 22°26.3'	349°17.9'	S 22°16.9'
3	182°20.7'	N 19°05.8'	95°34.3'	S 14°53.1'	40°36.7'	S 22°26.3'	4°20.2'	S 22°17.1'
4	197°20.3'	N 19°05.0'	110°36.8'	S 14°53.1'	55°39.4'	S 22°26.3'	19°22.5'	S 22°17.2'
5	212°19.8'	N 19°04.1'	125°39.4'	S 14°53.1'	70°42.0'	S 22°26.3'	34°24.9'	S 22°17.4'
6	227°19.4'	N 19°03.3'	140°42.0'	S 14°53.0'	85°44.7'	S 22°26.3'	49°27.2'	S 22°17.5'
7	242°19.0'	N 19°02.4'	155°44.6'	S 14°53.0'	100°47.4'	S 22°26.3'	64°29.5'	S 22°17.7'
8	257°18.5'	N 19°01.6'	170°47.2'	S 14°53.0'	115°50.0'	S 22°26.3'	79°31.8'	S 22°17.9'
9	272°18.1'	N 19°00.7'	185°49.8'	S 14°53.0'	130°52.7'	S 22°26.4'	94°34.2'	S 22°18.0'
10	287°17.6'	N 18°59.9'	200°52.4'	S 14°52.9'	145°55.3'	S 22°26.4'	109°36.5'	S 22°18.2'
11	302°17.2'	N 18°59.0'	215°55.0'	S 14°52.9'	160°58.0'	S 22°26.4'	124°38.8'	S 22°18.3'
12	317°16.8'	N 18°58.1'	230°57.5'	S 14°52.9'	176°00.7'	S 22°26.4'	139°41.2'	S 22°18.5'
13	332°16.3'	N 18°57.3'	246°00.1'	S 14°52.8'	191°03.3'	S 22°26.4'	154°43.5'	S 22°18.7'
14	347°15.9'	N 18°56.4'	261°02.7'	S 14°52.8'	206°06.0'	S 22°26.4'	169°45.8'	S 22°18.8'
15	2°15.4'	N 18°55.6'	276°05.3'	S 14°52.8'	221°08.7'	S 22°26.4'	184°48.2'	S 22°19.0'
16	17°15.0'	N 18°54.7'	291°07.9'	S 14°52.8'	236°11.3'	S 22°26.4'	199°50.5'	S 22°19.1'
17	32°14.6'	N 18°53.9'	306°10.5'	S 14°52.7'	251°14.0'	S 22°26.5'	214°52.8'	S 22°19.3'
18	47°14.1'	N 18°53.0'	321°13.1'	S 14°52.7'	266°16.6'	S 22°26.5'	229°55.2'	S 22°19.5'
19	62°13.7'	N 18°52.1'	336°15.6'	S 14°52.7'	281°19.3'	S 22°26.5'	244°57.5'	S 22°19.6'
20	77°13.3'	N 18°51.3'	351°18.2'	S 14°52.7'	296°22.0'	S 22°26.5'	259°59.9'	S 22°19.8'
21	92°12.8'	N 18°50.4'	6°20.8'	S 14°52.6'	311°24.6'	S 22°26.5'	275°02.2'	S 22°20.0'
22	107°12.4'	N 18°49.6'	21°23.4'	S 14°52.6'	326°27.3'	S 22°26.5'	290°04.6'	S 22°20.1'
23	122°12.0'	N 18°48.7'	36°26.0'	S 14°52.6'	341°30.0'	S 22°26.5'	305°06.9'	S 22°20.3'

Mon Jun 25, 2018 UTC

UTC	Venus -4.0		Jupiter -2.2		Saturn +0.0		Mars -2.0	
	v = -0.4' d = 0.9'		v = 2.6' d = 0.0'		v = 2.7' d = 0.0'		v = 2.4' d = 0.2'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	137°11.5'	N 18°47.8'	51°28.6'	S 14°52.6'	356°32.6'	S 22°26.5'	320°09.3'	S 22°20.5'
1	152°11.1'	N 18°47.0'	66°31.1'	S 14°52.5'	11°35.3'	S 22°26.5'	335°11.6'	S 22°20.6'
2	167°10.7'	N 18°46.1'	81°33.7'	S 14°52.5'	26°37.9'	S 22°26.6'	350°14.0'	S 22°20.8'
3	182°10.2'	N 18°45.2'	96°36.3'	S 14°52.5'	41°40.6'	S 22°26.6'	5°16.3'	S 22°20.9'
4	197°09.8'	N 18°44.4'	111°38.9'	S 14°52.5'	56°43.3'	S 22°26.6'	20°18.7'	S 22°21.1'
5	212°09.4'	N 18°43.5'	126°41.5'	S 14°52.4'	71°45.9'	S 22°26.6'	35°21.0'	S 22°21.3'
6	227°09.0'	N 18°42.6'	141°44.1'	S 14°52.4'	86°48.6'	S 22°26.6'	50°23.4'	S 22°21.4'
7	242°08.5'	N 18°41.8'	156°46.6'	S 14°52.4'	101°51.3'	S 22°26.6'	65°25.7'	S 22°21.6'
8	257°08.1'	N 18°40.9'	171°49.2'	S 14°52.4'	116°53.9'	S 22°26.6'	80°28.1'	S 22°21.8'
9	272°07.7'	N 18°40.0'	186°51.8'	S 14°52.3'	131°56.6'	S 22°26.6'	95°30.5'	S 22°21.9'
10	287°07.3'	N 18°39.2'	201°54.4'	S 14°52.3'	146°59.2'	S 22°26.6'	110°32.8'	S 22°22.1'
11	302°06.8'	N 18°38.3'	216°57.0'	S 14°52.3'	162°01.9'	S 22°26.7'	125°35.2'	S 22°22.3'
12	317°06.4'	N 18°37.4'	231°59.5'	S 14°52.3'	177°04.6'	S 22°26.7'	140°37.5'	S 22°22.4'
13	332°06.0'	N 18°36.6'	247°02.1'	S 14°52.3'	192°07.2'	S 22°26.7'	155°39.9'	S 22°22.6'
14	347°05.6'	N 18°35.7'	262°04.7'	S 14°52.2'	207°09.9'	S 22°26.7'	170°42.3'	S 22°22.8'
15	2°05.1'	N 18°34.8'	277°07.3'	S 14°52.2'	222°12.6'	S 22°26.7'	185°44.6'	S 22°23.0'
16	17°04.7'	N 18°33.9'	292°09.9'	S 14°52.2'	237°15.2'	S 22°26.7'	200°47.0'	S 22°23.1'
17	32°04.3'	N 18°33.0'	307°12.4'	S 14°52.2'	252°17.9'	S 22°26.7'	215°49.4'	S 22°23.3'
18	47°03.9'	N 18°32.2'	322°15.0'	S 14°52.1'	267°20.5'	S 22°26.7'	230°51.8'	S 22°23.5'
19	62°03.5'	N 18°31.3'	337°17.6'	S 14°52.1'	282°23.2'	S 22°26.8'	245°54.1'	S 22°23.6'
20	77°03.0'	N 18°30.4'	352°20.2'	S 14°52.1'	297°25.9'	S 22°26.8'	260°56.5'	S 22°23.8'
21	92°02.6'	N 18°29.5'	7°22.7'	S 14°52.1'	312°28.5'	S 22°26.8'	275°58.9'	S 22°24.0'
22	107°02.2'	N 18°28.7'	22°25.3'	S 14°52.0'	327°31.2'	S 22°26.8'	291°01.3'	S 22°24.2'
23	122°01.8'	N 18°27.8'	37°27.9'	S 14°52.0'	342°33.9'	S 22°26.8'	306°03.6'	S 22°24.3'

Tue Jun 26, 2018 UTC

UTC	Venus -4.0		Jupiter -2.2		Saturn +0.0		Mars -2.1	
	v = -0.4' d = 0.9'		v = 2.6' d = 0.0'		v = 2.7' d = 0.0'		v = 2.4' d = 0.2'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	137°01.4'	N 18°26.9'	52°30.5'	S 14°52.0'	357°36.5'	S 22°26.8'	321°06.0'	S 22°24.5'
1	152°01.0'	N 18°26.0'	67°33.0'	S 14°52.0'	12°39.2'	S 22°26.8'	336°08.4'	S 22°24.7'
2	167°00.6'	N 18°25.1'	82°35.6'	S 14°52.0'	27°41.8'	S 22°26.8'	351°10.8'	S 22°24.8'
3	182°00.1'	N 18°24.2'	97°38.2'	S 14°51.9'	42°44.5'	S 22°26.8'	6°13.2'	S 22°25.0'
4	196°59.7'	N 18°23.4'	112°40.8'	S 14°51.9'	57°47.2'	S 22°26.9'	21°15.5'	S 22°25.2'
5	211°59.3'	N 18°22.5'	127°43.3'	S 14°51.9'	72°49.8'	S 22°26.9'	36°17.9'	S 22°25.4'
6	226°58.9'	N 18°21.6'	142°45.9'	S 14°51.9'	87°52.5'	S 22°26.9'	51°20.3'	S 22°25.5'
7	241°58.5'	N 18°20.7'	157°48.5'	S 14°51.8'	102°55.2'	S 22°26.9'	66°22.7'	S 22°25.7'
8	256°58.1'	N 18°19.8'	172°51.1'	S 14°51.8'	117°57.8'	S 22°26.9'	81°25.1'	S 22°25.9'
9	271°57.7'	N 18°18.9'	187°53.6'	S 14°51.8'	133°00.5'	S 22°26.9'	96°27.5'	S 22°26.1'
10	286°57.3'	N 18°18.0'	202°56.2'	S 14°51.8'	148°03.2'	S 22°26.9'	111°29.9'	S 22°26.2'
11	301°56.9'	N 18°17.1'	217°58.8'	S 14°51.8'	163°05.8'	S 22°26.9'	126°32.3'	S 22°26.4'
12	316°56.5'	N 18°16.3'	233°01.4'	S 14°51.7'	178°08.5'	S 22°26.9'	141°34.7'	S 22°26.6'
13	331°56.1'	N 18°15.4'	248°03.9'	S 14°51.7'	193°11.1'	S 22°27.0'	156°37.1'	S 22°26.8'
14	346°55.7'	N 18°14.5'	263°06.5'	S 14°51.7'	208°13.8'	S 22°27.0'	171°39.5'	S 22°27.0'
15	1°55.3'	N 18°13.6'	278°09.1'	S 14°51.7'	223°16.5'	S 22°27.0'	186°41.9'	S 22°27.1'
16	16°54.9'	N 18°12.7'	293°11.6'	S 14°51.6'	238°19.1'	S 22°27.0'	201°44.3'	S 22°27.3'
17	31°54.5'	N 18°11.8'	308°14.2'	S 14°51.6'	253°21.8'	S 22°27.0'	216°46.7'	S 22°27.5'
18	46°54.1'	N 18°10.9'	323°16.8'	S 14°51.6'	268°24.5'	S 22°27.0'	231°49.1'	S 22°27.7'
19	61°53.6'	N 18°10.0'	338°19.3'	S 14°51.6'	283°27.1'	S 22°27.0'	246°51.5'	S 22°27.8'
20	76°53.2'	N 18°09.1'	353°21.9'	S 14°51.6'	298°29.8'	S 22°27.0'	261°53.9'	S 22°28.0'
21	91°52.8'	N 18°08.2'	8°24.5'	S 14°51.5'	313°32.4'	S 22°27.1'	276°56.3'	S 22°28.2'
22	106°52.5'	N 18°07.3'	23°27.1'	S 14°51.5'	328°35.1'	S 22°27.1'	291°58.7'	S 22°28.4'
23	121°52.1'	N 18°06.4'	38°29.6'	S 14°51.5'	343°37.8'	S 22°27.1'	307°01.1'	S 22°28.6'

Wed Jun 27, 2018 UTC

UTC	Venus -4.0		Jupiter -2.2		Saturn +0.0		Mars -2.1	
	v = -0.4' d = 0.9'		v = 2.6' d = 0.0'		v = 2.7' d = 0.0'		v = 2.4' d = 0.2'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	136°51.7'	N 18°05.5'	53°32.2'	S 14°51.5'	358°40.4'	S 22°27.1'	322°03.5'	S 22°28.7'
1	151°51.3'	N 18°04.6'	68°34.8'	S 14°51.5'	13°43.1'	S 22°27.1'	337°05.9'	S 22°28.9'
2	166°50.9'	N 18°03.7'	83°37.3'	S 14°51.4'	28°45.8'	S 22°27.1'	352°08.4'	S 22°29.1'
3	181°50.5'	N 18°02.8'	98°39.9'	S 14°51.4'	43°48.4'	S 22°27.1'	7°10.8'	S 22°29.3'
4	196°50.1'	N 18°01.9'	113°42.5'	S 14°51.4'	58°51.1'	S 22°27.1'	22°13.2'	S 22°29.5'
5	211°49.7'	N 18°01.0'	128°45.0'	S 14°51.4'	73°53.7'	S 22°27.1'	37°15.6'	S 22°29.7'
6	226°49.3'	N 18°00.1'	143°47.6'	S 14°51.4'	88°56.4'	S 22°27.2'	52°18.0'	S 22°29.8'
7	241°48.9'	N 17°59.2'	158°50.2'	S 14°51.3'	103°59.1'	S 22°27.2'	67°20.5'	S 22°30.0'
8	256°48.5'	N 17°58.3'	173°52.7'	S 14°51.3'	119°01.7'	S 22°27.2'	82°22.9'	S 22°30.2'
9	271°48.1'	N 17°57.4'	188°55.3'	S 14°51.3'	134°04.4'	S 22°27.2'	97°25.3'	S 22°30.4'
10	286°47.7'	N 17°56.5'	203°57.9'	S 14°51.3'	149°07.1'	S 22°27.2'	112°27.7'	S 22°30.6'
11	301°47.3'	N 17°55.6'	219°00.4'	S 14°51.3'	164°09.7'	S 22°27.2'	127°30.2'	S 22°30.8'
12	316°46.9'	N 17°54.7'	234°03.0'	S 14°51.2'	179°12.4'	S 22°27.2'	142°32.6'	S 22°30.9'
13	331°46.6'	N 17°53.7'	249°05.6'	S 14°51.2'	194°15.0'	S 22°27.2'	157°35.0'	S 22°31.1'
14	346°46.2'	N 17°52.8'	264°08.1'	S 14°51.2'	209°17.7'	S 22°27.2'	172°37.5'	S 22°31.3'
15	1°45.8'	N 17°51.9'	279°10.7'	S 14°51.2'	224°20.4'	S 22°27.3'	187°39.9'	S 22°31.5'
16	16°45.4'	N 17°51.0'	294°13.3'	S 14°51.2'	239°23.0'	S 22°27.3'	202°42.3'	S 22°31.7'
17	31°45.0'	N 17°50.1'	309°15.8'	S 14°51.2'	254°25.7'	S 22°27.3'	217°44.8'	S 22°31.9'
18	46°44.6'	N 17°49.2'	324°18.4'	S 14°51.1'	269°28.4'	S 22°27.3'	232°47.2'	S 22°32.1'
19	61°44.2'	N 17°48.3'	339°20.9'	S 14°51.1'	284°31.0'	S 22°27.3'	247°49.6'	S 22°32.3'
20	76°43.9'	N 17°47.4'	354°23.5'	S 14°51.1'	299°33.7'	S 22°27.3'	262°52.1'	S 22°32.4'
21	91°43.5'	N 17°46.4'	9°26.1'	S 14°51.1'	314°36.4'	S 22°27.3'	277°54.5'	S 22°32.6'
22	106°43.1'	N 17°45.5'	24°28.6'	S 14°51.1'	329°39.0'	S 22°27.3'	292°56.9'	S 22°32.8'
23	121°42.7'	N 17°44.6'	39°31.2'	S 14°51.0'	344°41.7'	S 22°27.4'	307°59.4'	S 22°33.0'

Thu Jun 28, 2018 UTC

UTC	Venus -4.0		Jupiter -2.2		Saturn +0.0		Mars -2.1	
	v = -0.4' d = 0.9'		v = 2.6' d = 0.0'		v = 2.7' d = 0.0'		v = 2.5' d = 0.2'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	136°42.3'	N 17°43.7'	54°33.8'	S 14°51.0'	359°44.3'	S 22°27.4'	323°01.8'	S 22°33.2'
1	151°42.0'	N 17°42.8'	69°36.3'	S 14°51.0'	14°47.0'	S 22°27.4'	338°04.3'	S 22°33.4'
2	166°41.6'	N 17°41.9'	84°38.9'	S 14°51.0'	29°49.7'	S 22°27.4'	353°06.7'	S 22°33.6'
3	181°41.2'	N 17°40.9'	99°41.4'	S 14°51.0'	44°52.3'	S 22°27.4'	8°09.2'	S 22°33.8'
4	196°40.8'	N 17°40.0'	114°44.0'	S 14°50.9'	59°55.0'	S 22°27.4'	23°11.6'	S 22°34.0'
5	211°40.4'	N 17°39.1'	129°46.6'	S 14°50.9'	74°57.7'	S 22°27.4'	38°14.1'	S 22°34.1'
6	226°40.1'	N 17°38.2'	144°49.1'	S 14°50.9'	90°00.3'	S 22°27.4'	53°16.5'	S 22°34.3'
7	241°39.7'	N 17°37.2'	159°51.7'	S 14°50.9'	105°03.0'	S 22°27.4'	68°19.0'	S 22°34.5'
8	256°39.3'	N 17°36.3'	174°54.2'	S 14°50.9'	120°05.6'	S 22°27.5'	83°21.4'	S 22°34.7'
9	271°38.9'	N 17°35.4'	189°56.8'	S 14°50.9'	135°08.3'	S 22°27.5'	98°23.9'	S 22°34.9'
10	286°38.6'	N 17°34.5'	204°59.4'	S 14°50.8'	150°11.0'	S 22°27.5'	113°26.4'	S 22°35.1'
11	301°38.2'	N 17°33.6'	220°01.9'	S 14°50.8'	165°13.6'	S 22°27.5'	128°28.8'	S 22°35.3'
12	316°37.8'	N 17°32.6'	235°04.5'	S 14°50.8'	180°16.3'	S 22°27.5'	143°31.3'	S 22°35.5'
13	331°37.5'	N 17°31.7'	250°07.0'	S 14°50.8'	195°19.0'	S 22°27.5'	158°33.7'	S 22°35.7'
14	346°37.1'	N 17°30.8'	265°09.6'	S 14°50.8'	210°21.6'	S 22°27.5'	173°36.2'	S 22°35.9'
15	1°36.7'	N 17°29.8'	280°12.1'	S 14°50.8'	225°24.3'	S 22°27.5'	188°38.7'	S 22°36.1'
16	16°36.4'	N 17°28.9'	295°14.7'	S 14°50.7'	240°26.9'	S 22°27.5'	203°41.1'	S 22°36.3'
17	31°36.0'	N 17°28.0'	310°17.3'	S 14°50.7'	255°29.6'	S 22°27.6'	218°43.6'	S 22°36.5'
18	46°35.6'	N 17°27.1'	325°19.8'	S 14°50.7'	270°32.3'	S 22°27.6'	233°46.1'	S 22°36.7'
19	61°35.2'	N 17°26.1'	340°22.4'	S 14°50.7'	285°34.9'	S 22°27.6'	248°48.5'	S 22°36.9'
20	76°34.9'	N 17°25.2'	355°24.9'	S 14°50.7'	300°37.6'	S 22°27.6'	263°51.0'	S 22°37.1'
21	91°34.5'	N 17°24.3'	10°27.5'	S 14°50.7'	315°40.3'	S 22°27.6'	278°53.5'	S 22°37.2'
22	106°34.2'	N 17°23.3'	25°30.0'	S 14°50.6'	330°42.9'	S 22°27.6'	293°56.0'	S 22°37.4'
23	121°33.8'	N 17°22.4'	40°32.6'	S 14°50.6'	345°45.6'	S 22°27.6'	308°58.4'	S 22°37.6'

Fri Jun 29, 2018 UTC

UTC	Venus -4.0		Jupiter -2.2		Saturn +0.0		Mars -2.2	
	v = -0.4' d = 0.9'		v = 2.6' d = 0.0'		v = 2.7' d = 0.0'		v = 2.5' d = 0.2'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	136°33.4'	N 17°21.5'	55°35.1'	S 14°50.6'	0°48.3'	S 22°27.6'	324°00.9'	S 22°37.8'
1	151°33.1'	N 17°20.5'	70°37.7'	S 14°50.6'	15°50.9'	S 22°27.7'	339°03.4'	S 22°38.0'
2	166°32.7'	N 17°19.6'	85°40.2'	S 14°50.6'	30°53.6'	S 22°27.7'	354°05.9'	S 22°38.2'
3	181°32.3'	N 17°18.7'	100°42.8'	S 14°50.6'	45°56.2'	S 22°27.7'	9°08.4'	S 22°38.4'
4	196°32.0'	N 17°17.7'	115°45.4'	S 14°50.5'	60°58.9'	S 22°27.7'	24°10.8'	S 22°38.6'
5	211°31.6'	N 17°16.8'	130°47.9'	S 14°50.5'	76°01.6'	S 22°27.7'	39°13.3'	S 22°38.8'
6	226°31.3'	N 17°15.8'	145°50.5'	S 14°50.5'	91°04.2'	S 22°27.7'	54°15.8'	S 22°39.0'
7	241°30.9'	N 17°14.9'	160°53.0'	S 14°50.5'	106°06.9'	S 22°27.7'	69°18.3'	S 22°39.2'
8	256°30.5'	N 17°14.0'	175°55.6'	S 14°50.5'	121°09.6'	S 22°27.7'	84°20.8'	S 22°39.4'
9	271°30.2'	N 17°13.0'	190°58.1'	S 14°50.5'	136°12.2'	S 22°27.7'	99°23.3'	S 22°39.6'
10	286°29.8'	N 17°12.1'	206°00.7'	S 14°50.5'	151°14.9'	S 22°27.8'	114°25.8'	S 22°39.8'
11	301°29.5'	N 17°11.1'	221°03.2'	S 14°50.4'	166°17.5'	S 22°27.8'	129°28.3'	S 22°40.0'
12	316°29.1'	N 17°10.2'	236°05.8'	S 14°50.4'	181°20.2'	S 22°27.8'	144°30.8'	S 22°40.2'
13	331°28.8'	N 17°09.2'	251°08.3'	S 14°50.4'	196°22.9'	S 22°27.8'	159°33.3'	S 22°40.4'
14	346°28.4'	N 17°08.3'	266°10.9'	S 14°50.4'	211°25.5'	S 22°27.8'	174°35.7'	S 22°40.6'
15	1°28.1'	N 17°07.4'	281°13.4'	S 14°50.4'	226°28.2'	S 22°27.8'	189°38.2'	S 22°40.8'
16	16°27.7'	N 17°06.4'	296°16.0'	S 14°50.4'	241°30.9'	S 22°27.8'	204°40.7'	S 22°41.0'
17	31°27.4'	N 17°05.5'	311°18.5'	S 14°50.4'	256°33.5'	S 22°27.8'	219°43.2'	S 22°41.2'
18	46°27.0'	N 17°04.5'	326°21.1'	S 14°50.3'	271°36.2'	S 22°27.8'	234°45.7'	S 22°41.4'
19	61°26.7'	N 17°03.6'	341°23.6'	S 14°50.3'	286°38.8'	S 22°27.9'	249°48.3'	S 22°41.6'
20	76°26.3'	N 17°02.6'	356°26.2'	S 14°50.3'	301°41.5'	S 22°27.9'	264°50.8'	S 22°41.9'
21	91°26.0'	N 17°01.7'	11°28.7'	S 14°50.3'	316°44.2'	S 22°27.9'	279°53.3'	S 22°42.1'
22	106°25.6'	N 17°00.7'	26°31.3'	S 14°50.3'	331°46.8'	S 22°27.9'	294°55.8'	S 22°42.3'
23	121°25.3'	N 16°59.8'	41°33.8'	S 14°50.3'	346°49.5'	S 22°27.9'	309°58.3'	S 22°42.5'

Sat Jun 30, 2018 UTC

UTC	Venus -4.0		Jupiter -2.2		Saturn +0.0		Mars -2.2	
	v = -0.3' d = 1.0'		v = 2.5' d = 0.0'		v = 2.7' d = 0.0'		v = 2.5' d = 0.2'	
	GHA	dec	GHA	dec	GHA	dec	GHA	dec
0	136°24.9'	N 16°58.8'	56°36.3'	S 14°50.3'	1°52.2'	S 22°27.9'	325°00.8'	S 22°42.7'
1	151°24.6'	N 16°57.9'	71°38.9'	S 14°50.2'	16°54.8'	S 22°27.9'	340°03.3'	S 22°42.9'
2	166°24.2'	N 16°56.9'	86°41.4'	S 14°50.2'	31°57.5'	S 22°27.9'	355°05.8'	S 22°43.1'
3	181°23.9'	N 16°56.0'	101°44.0'	S 14°50.2'	47°00.1'	S 22°27.9'	10°08.3'	S 22°43.3'
4	196°23.5'	N 16°55.0'	116°46.5'	S 14°50.2'	62°02.8'	S 22°28.0'	25°10.8'	S 22°43.5'
5	211°23.2'	N 16°54.1'	131°49.1'	S 14°50.2'	77°05.5'	S 22°28.0'	40°13.4'	S 22°43.7'
6	226°22.9'	N 16°53.1'	146°51.6'	S 14°50.2'	92°08.1'	S 22°28.0'	55°15.9'	S 22°43.9'
7	241°22.5'	N 16°52.1'	161°54.2'	S 14°50.2'	107°10.8'	S 22°28.0'	70°18.4'	S 22°44.1'
8	256°22.2'	N 16°51.2'	176°56.7'	S 14°50.1'	122°13.5'	S 22°28.0'	85°20.9'	S 22°44.3'
9	271°21.8'	N 16°50.2'	191°59.3'	S 14°50.1'	137°16.1'	S 22°28.0'	100°23.4'	S 22°44.5'
10	286°21.5'	N 16°49.3'	207°01.8'	S 14°50.1'	152°18.8'	S 22°28.0'	115°26.0'	S 22°44.7'
11	301°21.2'	N 16°48.3'	222°04.3'	S 14°50.1'	167°21.4'	S 22°28.0'	130°28.5'	S 22°45.0'
12	316°20.8'	N 16°47.4'	237°06.9'	S 14°50.1'	182°24.1'	S 22°28.1'	145°31.0'	S 22°45.2'
13	331°20.5'	N 16°46.4'	252°09.4'	S 14°50.1'	197°26.8'	S 22°28.1'	160°33.5'	S 22°45.4'
14	346°20.2'	N 16°45.4'	267°12.0'	S 14°50.1'	212°29.4'	S 22°28.1'	175°36.1'	S 22°45.6'
15	1°19.8'	N 16°44.5'	282°14.5'	S 14°50.1'	227°32.1'	S 22°28.1'	190°38.6'	S 22°45.8'
16	16°19.5'	N 16°43.5'	297°17.1'	S 14°50.0'	242°34.8'	S 22°28.1'	205°41.1'	S 22°46.0'
17	31°19.2'	N 16°42.6'	312°19.6'	S 14°50.0'	257°37.4'	S 22°28.1'	220°43.7'	S 22°46.2'
18	46°18.8'	N 16°41.6'	327°22.1'	S 14°50.0'	272°40.1'	S 22°28.1'	235°46.2'	S 22°46.4'
19	61°18.5'	N 16°40.6'	342°24.7'	S 14°50.0'	287°42.7'	S 22°28.1'	250°48.7'	S 22°46.6'
20	76°18.2'	N 16°39.7'	357°27.2'	S 14°50.0'	302°45.4'	S 22°28.1'	265°51.3'	S 22°46.8'
21	91°17.8'	N 16°38.7'	12°29.8'	S 14°50.0'	317°48.1'	S 22°28.2'	280°53.8'	S 22°47.1'
22	106°17.5'	N 16°37.7'	27°32.3'	S 14°50.0'	332°50.7'	S 22°28.2'	295°56.4'	S 22°47.3'
23	121°17.2'	N 16°36.8'	42°34.8'	S 14°50.0'	347°53.4'	S 22°28.2'	310°58.9'	S 22°47.5'