h Moon (20th Mar) Lunar Distance (objects with largest hourly LD delta)

Fri	GHA	ν	Dec	d	HP	-Procyon	-Pollux	-Jupiter	-Betelgeuse	-Capella	-Rigel	-Aldebaran	+Venus
0	167°52.6	11.6′	N07°15.3	16.4′	59.1′	104°38.5	101°25.1	93°27.7	78°42.4	70°56.5	70°46.2	58°56.7	
1	182°23.2	11.6′	07°31.8	16.4′	59.2′	104°05.1	100°49.5	92°52.3	78°09.3	70°22.8	70°18.5	58°22.0	
2	196°53.8	11.5′	07°48.2	16.4′	59.2′	103°31.7	100°13.9	92°16.8	77°36.1	69°49.1	69°50.8	57°47.2	
3	211°24.3	11.4′	08°04.5	16.3′	59.2′	102°58.2	99°38.3	91°41.3	77°02.9	69°15.4	69°23.1	57°12.4	
4	225°54.7	11.4′	08°20.9	16.3′	59.2′	102°24.7	99°02.7	91°05.8	76°29.8	68°41.6	68°55.5	56°37.7	
5	240°25.1	11.3′	08°37.2	16.3′	59.2′	101°51.2	98°27.0	90°30.2	75°56.6	68°07.9	68°28.0	56°02.9	
6	254°55.4	11.2′	N08°53.5	16.2′	59.3′	101°17.6	97°51.4	89°54.7	75°23.4	67°34.2	68°00.5	55°28.1	
7	269°25.6	11.2′	09°09.7	16.2′	59.3′	100°44.0	97°15.7	89°19.1	74°50.2	67°00.5	67°33.0	54°53.3	
8	283°55.8	11.1′	09°25.9	16.2′	59.3′	100°10.4	96°40.0	88°43.5	74°17.0	66°26.8	67°05.6	54°18.5	
9	298°25.9	11.0′	09°42.0	16.1′	59.3′	99°36.8	96°04.3	88°07.9	73°43.8	65°53.1	66°38.2	53°43.7	
10	312°56.0	11.0′	09°58.2	16.1′	59.3′	99°03.1	95°28.6	87°32.3	73°10.6	65°19.4	66°10.9	53°08.9	
11	327°25.9	10.9′	10°14.2	16.0′	59.3′	98°29.4	94°52.8	86°56.7	72°37.4	64°45.6	65°43.7	52°34.0	
12	341°55.8	10.8′	N10°30.2	16.0′	59.3′	97°55.7	94°17.1	86°21.0	72°04.2	64°11.9	65°16.5	51°59.2	
13	356°25.7	10.8′	10°46.2	15.9′	59.4′	97°22.0	93°41.3	85°45.3	71°31.0	63°38.2	64°49.3	51°24.4	
14	10°55.4	10.7′	11°02.1	15.9′	59.4′	96°48.2	93°05.5	85°09.6	70°57.8	63°04.5	64°22.3	50°49.6	
15	25°25.1	10.6′	11°18.0	15.8′	59.4′	96°14.5	92°29.7	84°33.9	70°24.6	62°30.9	63°55.2	50°14.8	
16	39°54.7	10.5′	11°33.8	15.8′	59.4′	95°40.7	91°53.8	83°58.2	69°51.4	61°57.2	63°28.3	49°40.0	
17	54°24.2	10.5′	11°49.6	15.7′	59.4′	95°06.9	91°18.0	83°22.5	69°18.2	61°23.5	63°01.4	49°05.2	
18	68°53.7	10.4′	N12°05.3	15.6′	59.4′	94°33.0	90°42.1	82°46.7	68°45.0	60°49.9	62°34.6	48°30.4	
19	83°23.1	10.3′	12°20.9	15.6′	59.4′	93°59.2	90°06.3	82°11.0	68°11.9	60°16.2	62°07.9	47°55.6	
20	97°52.4	10.2′	12°36.5	15.5′	59.5′	93°25.4	89°30.4	81°35.2	67°38.7	59°42.6	61°41.3	47°20.8	7°22.0
21	112°21.6	10.1′	12°52.0	15.5′	59.5′	92°51.5	88°54.5	80°59.4	67°05.6	59°09.0	61°14.7	46°46.1	7°49.5
22	126°50.8	10.1′	13°07.5	15.4′	59.5′	92°17.6	88°18.6	80°23.6	66°32.5	58°35.4	60°48.3	46°11.3	8°17.7
23	141°19.8	10.0′	13°22.9	15.3′	59.5′	91°43.7	87°42.6	79°47.8	65°59.3	58°01.8	60°21.9	45°36.6	8°46.4
20th	SD = 16.1′		Mer. pass. 13:15										

h Moon (21st Mar) Lunar Distance (objects with largest hourly LD delta)

Sat	GHA	ν	Dec	d	HP	-Regulus	-Procyon	-Pollux	-Jupiter	-Capella	-Aldebaran	+Venus	+Achernar
0	155°48.8	9.9′	N13°38.2	15.2′	59.5′		91°09.8	87°06.7	79°12.0	57°28.3	45°01.8	9°15.6	
1	170°17.7	9.8′	13°53.4	15.2′	59.5′		90°35.9	86°30.8	78°36.2	56°54.7	44°27.1	9°45.3	
2	184°46.5	9.7′	14°08.6	15.1′	59.5′		90°02.0	85°54.8	78°00.3	56°21.2	43°52.4	10°15.2	
3	199°15.2	9.6′	14°23.7	15.0′	59.5′		89°28.0	85°18.8	77°24.5	55°47.7	43°17.7	10°45.4	
4	213°43.9	9.6′	14°38.7	14.9′	59.5′		88°54.1	84°42.9	76°48.6	55°14.3	42°43.1	11°15.9	71°45.1
5	228°12.4	9.5′	14°53.7	14.9′	59.6′		88°20.1	84°06.9	76°12.8	54°40.8	42°08.4	11°46.6	72°00.2
6	242°40.9	9.4′	N15°08.6	14.8′	59.6′		87°46.2	83°30.9	75°36.9	54°07.4	41°33.8	12°17.6	72°15.5
7	257°09.3	9.3′	15°23.3	14.7′	59.6′	119°49.6	87°12.2	82°54.9	75°01.0	53°34.0	40°59.2	12°48.6	72°30.8
8	271°37.6	9.2′	15°38.0	14.6′	59.6′	119°13.6	86°38.2	82°18.9	74°25.1	53°00.7	40°24.6	13°19.9	72°46.3
9	286°05.8	9.1′	15°52.7	14.5′	59.6′	118°37.5	86°04.2	81°42.9	73°49.2	52°27.4	39°50.1	13°51.3	73°01.8
10	300°33.9	9.0′	16°07.2	14.4′	59.6′	118°01.4	85°30.2	81°06.8	73°13.3	51°54.1	39°15.6	14°22.8	73°17.5
11	315°02.0	8.9′	16°21.6	14.4′	59.6′	117°25.4	84°56.3	80°30.8	72°37.4	51°20.9	38°41.1	14°54.4	73°33.2
12	329°29.9	8.8′	N16°36.0	14.3′	59.6′	116°49.3	84°22.3	79°54.8	72°01.5	50°47.7	38°06.7	15°26.1	73°49.0
13	343°57.7	8.8′	16°50.3	14.2′	59.6′	116°13.2	83°48.3	79°18.7	71°25.6	50°14.5	37°32.3	15°57.9	74°04.9
14	358°25.5	8.7′	17°04.4	14.1′	59.6′	115°37.1	83°14.3	78°42.7	70°49.7	49°41.4	36°57.9	16°29.8	74°21.0
15	12°53.1	8.6′	17°18.5	14.0′	59.6′	115°01.0	82°40.3	78°06.6	70°13.7	49°08.4	36°23.6	17°01.7	74°37.1
16	27°20.7	8.5′	17°32.5	13.9′	59.6′	114°24.9	82°06.3	77°30.6	69°37.8	48°35.4	35°49.3	17°33.8	74°53.2
17	41°48.2	8.4′	17°46.3	13.8′	59.6′	113°48.8	81°32.3	76°54.5	69°01.9	48°02.4	35°15.1	18°05.9	75°09.5
18	56°15.5	8.3′	N18°00.1	13.7′	59.6′	113°12.6	80°58.3	76°18.4	68°25.9	47°29.5	34°41.0	18°38.0	75°25.9
19	70°42.8	8.2′	18°13.8	13.6′	59.7′	112°36.5	80°24.3	75°42.4	67°50.0	46°56.6	34°06.8	19°10.2	75°42.3
20	85°10.0	8.1′	18°27.3	13.4′	59.7′	112°00.4	79°50.3	75°06.3	67°14.0	46°23.8	33°32.8	19°42.4	75°58.8
21	99°37.1	8.0′	18°40.8	13.3′	59.7′	111°24.3	79°16.4	74°30.2	66°38.1	45°51.1	32°58.8	20°14.7	76°15.4
22	114°04.1	7.9′	18°54.1	13.2′	59.7′	110°48.1	78°42.4	73°54.1	66°02.1	45°18.4	32°24.9	20°47.0	76°32.0
23	128°31.0	7.8′	19°07.3	13.1′	59.7′	110°12.0	78°08.4	73°18.1	65°26.2	44°45.8	31°51.0	21°19.4	76°48.8
21st	SD = 16.2′		Mer. pass. 14:07										

h Moon (22nd Mar) Lunar Distance (objects with largest hourly LD delta)

Sun	GHA	ν	Dec	d	HP	-Regulus	-Procyon	-Pollux	-Jupiter	-Aldebaran	+Venus	+Sun	+Achernar
0	142°57.8	7.7′	N19°20.4	13.0′	59.7′	109°35.9	77°34.5	72°42.0	64°50.2	31°17.2	21°51.8		77°05.6
1	157°24.5	7.6′	19°33.4	12.9′	59.7′	108°59.7	77°00.5	72°05.9	64°14.3	30°43.5	22°24.2		77°22.4
2	171°51.1	7.5′	19°46.3	12.8′	59.7′	108°23.6	76°26.6	71°29.8	63°38.3	30°09.9	22°56.7		77°39.4
3	186°17.6	7.4′	19°59.1	12.6′	59.7′	107°47.4	75°52.7	70°53.7	63°02.4	29°36.3	23°29.2		77°56.4
4	200°44.0	7.3′	20°11.7	12.5′	59.7′	107°11.3	75°18.7	70°17.6	62°26.4	29°02.9	24°01.7	41°35.3	78°13.4
5	215°10.4	7.2′	20°24.2	12.4′	59.7′	106°35.2	74°44.8	69°41.5	61°50.5	28°29.5	24°34.2	42°09.0	78°30.6
6	229°36.6	7.1′	N20°36.6	12.3′	59.7′	105°59.0	74°10.9	69°05.5	61°14.5	27°56.3	25°06.7	42°42.6	78°47.7
7	244°02.7	7.0′	20°48.9	12.1′	59.7′	105°22.9	73°37.1	68°29.4	60°38.6	27°23.2	25°39.3	43°16.2	79°05.0
8	258°28.7	6.9′	21°01.0	12.0′	59.7′	104°46.8	73°03.2	67°53.3	60°02.7	26°50.2	26°11.9	43°49.8	79°22.3
9	272°54.6	6.8′	21°13.0	11.9′	59.7′	104°10.6	72°29.3	67°17.2	59°26.7	26°17.3	26°44.5	44°23.5	79°39.6
10	287°20.5	6.7′	21°24.9	11.7′	59.7′	103°34.5	71°55.5	66°41.1	58°50.8	25°44.6	27°17.1	44°57.1	79°57.0
11	301°46.2	6.6′	21°36.6	11.6′	59.7′	102°58.4	71°21.7	66°05.1	58°14.9	25°12.0	27°49.7	45°30.7	80°14.5
12	316°11.8	6.5′	N21°48.3	11.5′	59.7′	102°22.2	70°47.9	65°29.0	57°38.9	24°39.5	28°22.4	46°04.3	80°32.0
13	330°37.4	6.4′	21°59.7	11.3′	59.7′	101°46.1	70°14.1	64°52.9	57°03.0	24°07.2	28°55.0	46°37.9	80°49.6
14	345°02.8	6.3′	22°11.0	11.2′	59.7′	101°10.0	69°40.4	64°16.9	56°27.1	23°35.2	29°27.7	47°11.6	81°07.2
15	359°28.2	6.3′	22°22.2	11.0′	59.7′	100°33.9	69°06.6	63°40.8	55°51.2	23°03.3	30°00.3	47°45.2	81°24.8
16	13°53.4	6.2′	22°33.3	10.9′	59.7′	99°57.7	68°32.9	63°04.7	55°15.3	22°31.5	30°33.0	48°18.8	81°42.5
17	28°18.6	6.1′	22°44.2	10.8′	59.7′	99°21.6	67°59.2	62°28.7	54°39.4	22°00.1	31°05.7	48°52.4	82°00.2
18	42°43.7	6.0′	N22°54.9	10.6′	59.7′	98°45.5	67°25.5	61°52.6	54°03.5	21°28.8	31°38.4	49°26.0	82°18.0
19	57°08.6	5.9′	23°05.5	10.5′	59.7′	98°09.4	66°51.9	61°16.6	53°27.6	20°57.8	32°11.1	49°59.6	82°35.8
20	71°33.5	5.8′	23°16.0	10.3′	59.7′	97°33.3	66°18.3	60°40.6	52°51.7	20°27.1	32°43.8	50°33.2	82°53.6
21	85°58.3	5.7′	23°26.3	10.2′	59.7′	96°57.2	65°44.7	60°04.5	52°15.9	19°56.7	33°16.5	51°06.8	83°11.4
22	100°23.0	5.6′	23°36.5	10.0′	59.7′	96°21.1	65°11.1	59°28.5	51°40.0	19°26.5	33°49.2	51°40.3	83°29.3
23	114°47.6	5.5′	23°46.5	9.8′	59.7′	95°45.1	64°37.6	58°52.5	51°04.1	18°56.8	34°21.9	52°13.9	83°47.3
22nd	SD = 16.3′		Mer. pass. 15:02			Sun SD = 16.0′							

h Moon (23rd Mar) Lunar Distance (objects with largest hourly LD delta)

Mon	GHA	ν	Dec	d	HP	-Regulus	-Procyon	-Pollux	-Jupiter	-Betelgeuse	+Venus	+Sun	+Achernar
0	129°12.1	5.4′	N23°56.3	9.7′	59.7′	95°09.0	64°04.1	58°16.5	50°28.3	39°49.6	34°54.6	52°47.5	84°05.2
1	143°36.5	5.3′	24°06.0	9.5′	59.7′	94°32.9	63°30.6	57°40.5	49°52.5	39°19.7	35°27.3	53°21.1	84°23.2
2	158°00.9	5.3′	24°15.5	9.4′	59.7′	93°56.9	62°57.2	57°04.5	49°16.6	38°50.0	36°00.0	53°54.6	84°41.2
3	172°25.1	5.2′	24°24.9	9.2′	59.7′	93°20.8	62°23.8	56°28.5	48°40.8	38°20.4	36°32.7	54°28.2	84°59.2
4	186°49.3	5.1′	24°34.1	9.0′	59.7′	92°44.8	61°50.4	55°52.5	48°05.0	37°51.0	37°05.4	55°01.7	85°17.3
5	201°13.4	5.0′	24°43.1	8.9′	59.6′	92°08.7	61°17.1	55°16.6	47°29.2	37°21.8	37°38.1	55°35.2	85°35.3
6	215°37.4	4.9′	N24°52.0	8.7′	59.6′	91°32.7	60°43.8	54°40.6	46°53.4	36°52.8	38°10.8	56°08.8	85°53.4
7	230°01.3	4.8′	25°00.7	8.5′	59.6′	90°56.7	60°10.5	54°04.7	46°17.6	36°23.9	38°43.5	56°42.3	86°11.5
8	244°25.1	4.8′	25°09.2	8.4′	59.6′	90°20.7	59°37.3	53°28.7	45°41.9	35°55.2	39°16.2	57°15.8	86°29.6
9	258°48.9	4.7′	25°17.6	8.2′	59.6′	89°44.6	59°04.1	52°52.8	45°06.1	35°26.8	39°48.9	57°49.3	86°47.8
10	273°12.6	4.6′	25°25.8	8.0′	59.6′	89°08.7	58°31.0	52°16.9	44°30.4	34°58.5	40°21.6	58°22.8	87°05.9
11	287°36.2	4.5′	25°33.8	7.9′	59.6′	88°32.7	57°57.9	51°41.0	43°54.7	34°30.4	40°54.3	58°56.3	87°24.0
12	301°59.7	4.4′	N25°41.7	7.7′	59.6′	87°56.7	57°24.9	51°05.1	43°19.0	34°02.6	41°26.9	59°29.8	87°42.2
13	316°23.1	4.4′	25°49.4	7.5′	59.6′	87°20.7	56°51.9	50°29.2	42°43.3	33°35.0	41°59.6	60°03.2	88°00.4
14	330°46.5	4.3′	25°56.9	7.3′	59.6′	86°44.8	56°18.9	49°53.3	42°07.6	33°07.7	42°32.3	60°36.7	88°18.5
15	345°09.8	4.2′	26°04.2	7.1′	59.6′	86°08.8	55°46.0	49°17.4	41°31.9	32°40.6	43°04.9	61°10.1	88°36.7
16	359°33.1	4.2′	26°11.3	7.0′	59.6′	85°32.9	55°13.2	48°41.6	40°56.3	32°13.8	43°37.6	61°43.6	88°54.9
17	13°56.2	4.1′	26°18.3	6.8′	59.6′	84°57.0	54°40.4	48°05.7	40°20.6	31°47.2	44°10.2	62°17.0	89°13.0
18	28°19.3	4.0′	N26°25.1	6.6′	59.6′	84°21.1	54°07.6	47°29.9	39°45.0	31°21.0	44°42.9	62°50.4	89°31.2
19	42°42.4	4.0′	26°31.7	6.4′	59.6′	83°45.2	53°35.0	46°54.1	39°09.4	30°55.0	45°15.5	63°23.8	89°49.4
20	57°05.3	3.9′	26°38.1	6.2′	59.6′	83°09.3	53°02.3	46°18.3	38°33.8	30°29.3	45°48.1	63°57.2	90°07.5
21	71°28.3	3.9′	26°44.3	6.1′	59.5′	82°33.4	52°29.8	45°42.5	37°58.3	30°04.0	46°20.7	64°30.6	90°25.7
22	85°51.1	3.8′	26°50.4	5.9′	59.5′	81°57.5	51°57.3	45°06.8	37°22.7	29°39.0	46°53.3	65°04.0	90°43.8
23	100°13.9	3.8′	26°56.3	5.7′	59.5′	81°21.7	51°24.8	44°31.0	36°47.2	29°14.4	47°25.9	65°37.3	91°01.9
23rd	SD = 16.3′		Mer. pass. 16:02			Sun SD = 16.0′							

h Moon (24th Mar) Lunar Distance (objects with largest hourly LD delta)

Tue	GHA	ν	Dec	d	HP	-Regulus	-Procyon	-Pollux	-Jupiter	+Aldebaran	+Venus	+Sun	+Achernar
0	114°36.7	3.7′	N27°01.9	5.5′	59.5′	80°45.8	50°52.4	43°55.2	36°11.7		47°58.5	66°10.6	91°20.1
1	128°59.4	3.6′	27°07.4	5.3′	59.5′	80°10.0	50°20.1	43°19.5	35°36.2		48°31.1	66°44.0	91°38.2
2	143°22.0	3.6′	27°12.7	5.1′	59.5′	79°34.2	49°47.9	42°43.8	35°00.7		49°03.6	67°17.3	91°56.3
3	157°44.6	3.6′	27°17.8	4.9′	59.5′	78°58.4	49°15.7	42°08.1	34°25.2		49°36.2	67°50.6	92°14.4
4	172°07.2	3.5′	27°22.7	4.7′	59.5′	78°22.6	48°43.7	41°32.4	33°49.8		50°08.7	68°23.9	92°32.4
5	186°29.7	3.5′	27°27.5	4.5′	59.5′	77°46.8	48°11.6	40°56.8	33°14.4		50°41.2	68°57.2	92°50.5
6	200°52.2	3.4′	N27°32.0	4.3′	59.5′	77°11.0	47°39.7	40°21.1	32°39.0		51°13.8	69°30.4	93°08.5
7	215°14.6	3.4′	27°36.4	4.2′	59.5′	76°35.3	47°07.9	39°45.5	32°03.7		51°46.3	70°03.7	93°26.5
8	229°37.0	3.4′	27°40.5	4.0′	59.4′	75°59.6	46°36.1	39°09.9	31°28.3		52°18.8	70°36.9	93°44.5
9	243°59.4	3.3′	27°44.5	3.8′	59.4′	75°23.8	46°04.4	38°34.3	30°53.0		52°51.2	71°10.2	94°02.4
10	258°21.7	3.3′	27°48.2	3.6′	59.4′	74°48.1	45°32.8	37°58.7	30°17.7		53°23.7	71°43.4	94°20.3
11	272°44.0	3.3′	27°51.8	3.4′	59.4′	74°12.4	45°01.3	37°23.1	29°42.4		53°56.2	72°16.6	94°38.2
12	287°06.3	3.3′	N27°55.2	3.2′	59.4′	73°36.8	44°29.9	36°47.6	29°07.2		54°28.6	72°49.7	94°56.1
13	301°28.5	3.2′	27°58.3	3.0′	59.4′	73°01.1	43°58.6	36°12.0	28°32.0		55°01.0	73°22.9	95°13.9
14	315°50.8	3.2′	28°01.3	2.8′	59.4′	72°25.5	43°27.4	35°36.5	27°56.8		55°33.5	73°56.1	95°31.7
15	330°13.0	3.2′	28°04.1	2.6′	59.4′	71°49.8	42°56.3	35°01.0	27°21.6		56°05.9	74°29.2	95°49.5
16	344°35.2	3.2′	28°06.7	2.4′	59.4′	71°14.2	42°25.3	34°25.6	26°46.5		56°38.3	75°02.3	96°07.2
17	358°57.4	3.2′	28°09.1	2.2′	59.3′	70°38.6	41°54.5	33°50.1	26°11.4	14°11.2	57°10.6	75°35.4	96°24.9
18	13°19.5	3.2′	N28°11.3	2.0′	59.3′	70°03.0	41°23.7	33°14.7	25°36.3	14°34.9	57°43.0	76°08.5	96°42.6
19	27°41.7	3.2′	28°13.3	1.8′	59.3′	69°27.5	40°53.1	32°39.3	25°01.3	14°59.3	58°15.3	76°41.6	97°00.2
20	42°03.9	3.2′	28°15.1	1.6′	59.3′	68°51.9	40°22.5	32°03.9	24°26.3	15°24.4	58°47.7	77°14.6	97°17.8
21	56°26.0	3.2′	28°16.7	1.4′	59.3′	68°16.4	39°52.2	31°28.5	23°51.4	15°50.1	59°20.0	77°47.7	97°35.3
22	70°48.2	3.2′	28°18.1	1.2′	59.3′	67°40.8	39°21.9	30°53.2	23°16.5	16°16.5	59°52.3	78°20.7	97°52.8
23	85°10.3	3.2′	28°19.3	1.0′	59.3′	67°05.3	38°51.8	30°17.9	22°41.6	16°43.3	60°24.6	78°53.7	98°10.2
24th	SD = 16.2′		Mer. pass. 17:04			Sun SD = 16.0′							

h Moon (25th Mar) Lunar Distance (objects with largest hourly LD delta)

Wed	GHA	ν	Dec	d	HP	-Spica	-Regulus	-Pollux	-Jupiter	+Aldebaran	+Capella	+Venus	+Sun
0	99°32.5	3.2′	N28°20.3	0.8′	59.3′		66°29.8	29°42.6	22°06.7	17°10.7		60°56.9	79°26.7
1	113°54.7	3.2′	28°21.1	0.6′	59.2′	119°55.5	65°54.4	29°07.3	21°32.0	17°38.5		61°29.1	79°59.7
2	128°16.8	3.2′	28°21.7	0.4′	59.2′	119°20.1	65°18.9	28°32.0	20°57.2	18°06.8		62°01.4	80°32.7
3	142°39.0	3.2′	28°22.1	0.2′	59.2′	118°44.6	64°43.5	27°56.8	20°22.5	18°35.4		62°33.6	81°05.6
4	157°01.2	3.2′	28°22.3	0.0′	59.2′	118°09.2	64°08.0	27°21.6	19°47.9	19°04.4		63°05.8	81°38.5
5	171°23.4	3.2′	28°22.3	-0.2′	59.2′	117°33.8	63°32.6	26°46.4	19°13.3	19°33.7		63°38.0	82°11.4
6	185°45.7	3.3′	N28°22.1	-0.4′	59.2′	116°58.5	62°57.2	26°11.3	18°38.8	20°03.3		64°10.2	82°44.3
7	200°08.0	3.3′	28°21.8	-0.6′	59.2′	116°23.1	62°21.9	25°36.1	18°04.3	20°33.2		64°42.4	83°17.2
8	214°30.2	3.3′	28°21.2	-0.8′	59.1′	115°47.8	61°46.5	25°01.0	17°29.9	21°03.3		65°14.5	83°50.1
9	228°52.6	3.4′	28°20.4	-1.0′	59.1′	115°12.5	61°11.2	24°26.0	16°55.6	21°33.7		65°46.6	84°22.9
10	243°14.9	3.4′	28°19.5	-1.2′	59.1′	114°37.2	60°35.9	23°50.9	16°21.3	22°04.3		66°18.8	84°55.7
11	257°37.3	3.4′	28°18.3	-1.4′	59.1′	114°01.9	60°00.6	23°15.9	15°47.2	22°35.1		66°50.9	85°28.5
12	271°59.7	3.5′	N28°16.9	-1.5′	59.1′	113°26.6	59°25.3	22°41.0	15°13.1	23°06.1	19°51.3	67°22.9	86°01.3
13	286°22.2	3.5′	28°15.4	-1.7′	59.1′	112°51.3	58°50.0	22°06.0	14°39.2	23°37.3	20°07.2	67°55.0	86°34.1
14	300°44.7	3.5′	28°13.7	-1.9′	59.1′	112°16.1	58°14.7	21°31.1	14°05.3	24°08.6	20°23.8	68°27.1	87°06.9
15	315°07.2	3.6′	28°11.7	-2.1′	59.0′	111°40.9	57°39.5	20°56.2	13°31.6	24°40.1	20°41.2	68°59.1	87°39.6
16	329°29.8	3.6′	28°09.6	-2.3′	59.0′	111°05.7	57°04.3	20°21.4	12°58.0	25°11.7	20°59.2	69°31.1	88°12.3
17	343°52.4	3.7′	28°07.3	-2.5′	59.0′	110°30.5	56°29.1	19°46.6	12°24.6	25°43.5	21°18.0	70°03.1	88°45.0
18	358°15.1	3.7′	N28°04.8	-2.7′	59.0′	109°55.4	55°53.9	19°11.9	11°51.3	26°15.3	21°37.4	70°35.1	89°17.7
19	12°37.9	3.8′	28°02.1	-2.9′	59.0′	109°20.2	55°18.8	18°37.1	11°18.3	26°47.3	21°57.4	71°07.0	89°50.4
20	27°00.6	3.8′	27°59.2	-3.1′	59.0′	108°45.1	54°43.6	18°02.5	10°45.5	27°19.4	22°17.9	71°39.0	90°23.0
21	41°23.5	3.9′	27°56.1	-3.3′	59.0′	108°10.0	54°08.5	17°27.9	10°12.9	27°51.6	22°39.1	72°10.9	90°55.6
22	55°46.4	4.0′	27°52.9	-3.4′	58.9′	107°34.9	53°33.4	16°53.3	9°40.6	28°23.9	23°00.8	72°42.8	91°28.2
23	70°09.4	4.0′	27°49.4	-3.6′	58.9′	106°59.8	52°58.3	16°18.8	9°08.7	28°56.2	23°22.9	73°14.7	92°00.8
25th	SD = 16.2′		Mer. pass. 18:07			Sun SD = 16.0′							

h   Moon (26th Mar)   Lunar Distance (objects with largest hourly LD delta)

Thu	GHA	ν	Dec	d	HP	-Spica	-Regulus	-Pollux	-Jupiter	+Capella	+Aldebaran	+Venus	+Sun
0	84°32.4	4.1'	N27°45.8	-3.8'	58.9'	106°24.8	52°23.2	15°44.3	8°37.2	23°45.6	29°28.7	73°46.6	92°33.4
1	98°55.5	4.2'	27°42.0	-4.0'	58.9'	105°49.7	51°48.2	15°10.0	8°06.1	24°08.7	30°01.2	74°18.4	93°06.0
2	113°18.7	4.2'	27°38.0	-4.2'	58.9'	105°14.7	51°13.1	14°35.6	7°35.6	24°32.2	30°33.7	74°50.3	93°38.5
3	127°41.9	4.3'	27°33.8	-4.4'	58.9'	104°39.7	50°38.1	14°01.4	7°05.9	24°56.2	31°06.4	75°22.1	94°11.0
4	142°05.2	4.4'	27°29.4	-4.5'	58.8'	104°04.7	50°03.1	13°27.2	6°37.0	25°20.5	31°39.1	75°53.9	94°43.5
5	156°28.6	4.5'	27°24.9	-4.7'	58.8'	103°29.8	49°28.1	12°53.2		25°45.2	32°11.8	76°25.7	95°16.0
6	170°52.0	4.5'	N27°20.2	-4.9'	58.8'	102°54.8	48°53.2	12°19.2		26°10.3	32°44.6	76°57.5	95°48.5
7	185°15.6	4.6'	27°15.3	-5.1'	58.8'	102°19.9	48°18.2	11°45.4		26°35.6	33°17.5	77°29.2	96°20.9
8	199°39.2	4.7'	27°10.2	-5.2'	58.8'	101°45.0	47°43.3	11°11.7		27°01.3	33°50.4	78°00.9	96°53.3
9	214°02.9	4.8'	27°05.0	-5.4'	58.8'	101°10.1	47°08.4	10°38.1		27°27.4	34°23.3	78°32.7	97°25.7
10	228°26.7	4.9'	26°59.5	-5.6'	58.7'	100°35.2	46°33.5	10°04.7		27°53.6	34°56.3	79°04.3	97°58.1
11	242°50.5	4.9'	26°53.9	-5.8'	58.7'	100°00.4	45°58.7	9°31.5		28°20.2	35°29.3	79°36.0	98°30.5
12	257°14.5	5.0'	N26°48.2	-5.9'	58.7'	99°25.5	45°23.8	8°58.5		28°47.0	36°02.4	80°07.7	99°02.8
13	271°38.5	5.1'	26°42.2	-6.1'	58.7'	98°50.7	44°49.0	8°25.8		29°14.1	36°35.4	80°39.3	99°35.2
14	286°02.6	5.2'	26°36.1	-6.3'	58.7'	98°15.9	44°14.2	7°53.3		29°41.4	37°08.5	81°10.9	100°07.5
15	300°26.8	5.3'	26°29.9	-6.4'	58.7'	97°41.2	43°39.4	7°21.3		30°08.9	37°41.7	81°42.5	100°39.8
16	314°51.1	5.4'	26°23.4	-6.6'	58.6'	97°06.4	43°04.6	6°49.8		30°36.6	38°14.8	82°14.1	101°12.0
17	329°15.5	5.5'	26°16.8	-6.8'	58.6'	96°31.7	42°29.9	6°18.8		31°04.5	38°48.0	82°45.7	101°44.3
18	343°40.0	5.6'	N26°10.0	-6.9'	58.6'	95°56.9	41°55.1	5°48.5		31°32.6	39°21.2	83°17.2	102°16.5
19	358°04.6	5.7'	26°03.1	-7.1'	58.6'	95°22.2	41°20.4	5°19.2		32°00.9	39°54.4	83°48.7	102°48.7
20	12°29.3	5.8'	25°56.0	-7.2'	58.6'	94°47.6	40°45.7			32°29.4	40°27.6	84°20.2	103°20.9
21	26°54.0	5.9'	25°48.8	-7.4'	58.6'	94°12.9	40°11.1			32°58.0	41°00.9	84°51.7	103°53.1
22	41°18.9	6.0'	25°41.4	-7.6'	58.5'	93°38.3	39°36.4			33°26.8	41°34.1	85°23.2	104°25.3
23	55°43.9	6.1'	25°33.8	-7.7'	58.5'	93°03.6	39°01.8			33°55.7	42°07.4	85°54.7	104°57.4
26th	SD = 16.1'		Mer. pass. 19:08			Sun SD = 16.0'							

h   Moon (27th Mar)   Lunar Distance (objects with largest hourly LD delta)

Fri	GHA	ν	Dec	d	HP	-Rigil Kent.	-Spica	-Arcturus	-Regulus	+Pollux	+Jupiter	+Aldebaran	+Sun
0	70°08.9	6.2'	N25°26.1	-7.9'	58.5'	119°47.4	92°29.0	90°24.3	38°27.1		7°14.5	42°40.7	105°29.5
1	84°34.1	6.3'	25°18.2	-8.0'	58.5'	119°22.6	91°54.4	89°55.7	37°52.5		7°44.1	43°14.0	106°01.6
2	98°59.4	6.4'	25°10.2	-8.2'	58.5'	118°57.8	91°19.9	89°27.2	37°18.0		8°14.3	43°47.3	106°33.7
3	113°24.8	6.5'	25°02.0	-8.3'	58.5'	118°32.9	90°45.3	88°58.7	36°43.4		8°45.0	44°20.6	107°05.7
4	127°50.3	6.6'	24°53.7	-8.5'	58.4'	118°07.9	90°10.8	88°30.2	36°08.9		9°16.2	44°53.9	107°37.8
5	142°15.9	6.7'	24°45.3	-8.6'	58.4'	117°42.9	89°36.3	88°01.7	35°34.3		9°47.7	45°27.2	108°09.8
6	156°41.5	6.8'	N24°36.6	-8.8'	58.4'	117°17.7	89°01.8	87°33.2	34°59.8		10°19.4	46°00.5	108°41.8
7	171°07.3	6.9'	24°27.9	-8.9'	58.4'	116°52.5	88°27.3	87°04.8	34°25.4		10°51.4	46°33.9	109°13.8
8	185°33.2	7.0'	24°19.0	-9.0'	58.4'	116°27.3	87°52.9	86°36.4	33°50.9		11°23.7	47°07.2	109°45.7
9	199°59.3	7.1'	24°10.0	-9.2'	58.4'	116°01.9	87°18.5	86°08.0	33°16.5		11°56.1	47°40.5	110°17.7
10	214°25.4	7.2'	24°00.8	-9.3'	58.3'	115°36.5	86°44.1	85°39.6	32°42.0		12°28.6	48°13.9	110°49.6
11	228°51.6	7.3'	23°51.5	-9.4'	58.3'	115°11.1	86°09.7	85°11.3	32°07.6		13°01.3	48°47.2	111°21.5
12	243°17.9	7.4'	N23°42.0	-9.6'	58.3'	114°45.6	85°35.3	84°42.9	31°33.2	6°08.0	13°34.1	49°20.5	111°53.4
13	257°44.4	7.5'	23°32.4	-9.7'	58.3'	114°20.0	85°00.9	84°14.6	30°58.9	6°38.4	14°07.0	49°53.9	112°25.2
14	272°10.9	7.7'	23°22.7	-9.8'	58.3'	113°54.4	84°26.6	83°46.4	30°24.5	7°09.4	14°39.9	50°27.2	112°57.1
15	286°37.6	7.8'	23°12.9	-10.0'	58.2'	113°28.7	83°52.3	83°18.1	29°50.2	7°40.9	15°13.0	51°00.5	113°28.9
16	301°04.4	7.9'	23°02.9	-10.1'	58.2'	113°03.0	83°18.0	82°49.9	29°15.9	8°12.7	15°46.0	51°33.9	114°00.7
17	315°31.2	8.0'	22°52.8	-10.2'	58.2'	112°37.2	82°43.7	82°21.7	28°41.6	8°44.8	16°19.2	52°07.2	114°32.5
18	329°58.2	8.1'	N22°42.6	-10.4'	58.2'	112°11.4	82°09.5	81°53.6	28°07.3	9°17.1	16°52.4	52°40.5	115°04.3
19	344°25.3	8.2'	22°32.2	-10.5'	58.2'	111°45.5	81°35.2	81°25.5	27°33.1	9°49.7	17°25.6	53°13.8	115°36.0
20	358°52.5	8.3'	22°21.8	-10.6'	58.2'	111°19.6	81°01.0	80°57.4	26°58.9	10°22.4	17°58.9	53°47.1	116°07.7
21	13°19.8	8.4'	22°11.2	-10.7'	58.1'	110°53.7	80°26.8	80°29.3	26°24.7	10°55.2	18°32.2	54°20.4	116°39.4
22	27°47.2	8.5'	22°00.4	-10.8'	58.1'	110°27.7	79°52.6	80°01.3	25°50.5	11°28.1	19°05.5	54°53.7	117°11.1
23	42°14.8	8.6'	21°49.6	-10.9'	58.1'	110°01.6	79°18.5	79°33.3	25°16.3	12°01.2	19°38.9	55°27.0	117°42.8
27th	SD = 16.0'		Mer. pass. 20:05			Sun SD = 16.0'							

h   Moon (28th Mar)   Lunar Distance (objects with largest hourly LD delta)

Sat	GHA	ν	Dec	d	HP	-Antares	-Arcturus	-Spica	-Regulus	+Pollux	+Jupiter	+Aldebaran	+Sun
0	56°42.4	8.7'	N21°38.7	-11.1'	58.1'		79°05.4	78°44.3	24°42.1	12°34.3	20°12.2	56°00.3	118°14.4
1	71°10.1	8.9'	21°27.6	-11.2'	58.1'		78°37.5	78°10.2	24°08.0	13°07.5	20°45.6	56°33.6	118°46.0
2	85°38.0	9.0'	21°16.4	-11.3'	58.0'		78°09.6	77°36.1	23°33.9	13°40.8	21°19.0	57°06.8	119°17.6
3	100°06.0	9.1'	21°05.2	-11.4'	58.0'		77°41.8	77°02.0	22°59.8	14°14.1	21°52.4	57°40.1	119°49.2
4	114°34.0	9.2'	20°53.8	-11.5'	58.0'		77°14.0	76°28.0	22°25.7	14°47.4	22°25.8	58°13.3	
5	129°02.2	9.3'	20°42.3	-11.6'	58.0'		76°46.2	75°53.9	21°51.7	15°20.8	22°59.2	58°46.6	
6	143°30.5	9.4'	N20°30.7	-11.7'	58.0'		76°18.5	75°19.9	21°17.7	15°54.2	23°32.6	59°19.8	
7	157°58.9	9.5'	20°18.9	-11.8'	57.9'		75°50.9	74°45.9	20°43.6	16°27.6	24°06.0	59°53.0	
8	172°27.4	9.6'	20°07.1	-11.9'	57.9'		75°23.3	74°12.0	20°09.7	17°01.0	24°39.5	60°26.2	
9	186°56.0	9.7'	19°55.2	-12.0'	57.9'	119°31.5	74°55.7	73°38.0	19°35.7	17°34.5	25°12.9	60°59.4	
10	201°24.7	9.8'	19°43.2	-12.1'	57.9'	118°57.6	74°28.2	73°04.1	19°01.7	18°08.0	25°46.3	61°32.6	
11	215°53.5	9.9'	19°31.1	-12.2'	57.9'	118°23.6	74°00.7	72°30.1	18°27.8	18°41.4	26°19.7	62°05.8	
12	230°22.4	10.0'	N19°18.9	-12.3'	57.9'	117°49.7	73°33.3	71°56.2	17°53.9	19°14.9	26°53.1	62°38.9	
13	244°51.4	10.1'	19°06.6	-12.4'	57.8'	117°15.8	73°05.9	71°22.3	17°20.0	19°48.4	27°26.5	63°12.1	
14	259°20.5	10.2'	18°54.2	-12.5'	57.8'	116°42.0	72°38.6	70°48.5	16°46.1	20°21.9	27°59.9	63°45.2	
15	273°49.7	10.3'	18°41.7	-12.6'	57.8'	116°08.1	72°11.3	70°14.6	16°12.3	20°55.4	28°33.3	64°18.4	
16	288°19.1	10.4'	18°29.1	-12.7'	57.8'	115°34.3	71°44.1	69°40.8	15°38.4	21°28.9	29°06.6	64°51.5	
17	302°48.5	10.5'	18°16.5	-12.8'	57.8'	115°00.5	71°16.9	69°07.0	15°04.6	22°02.4	29°40.0	65°24.6	
18	317°18.0	10.6'	N18°03.7	-12.8'	57.7'	114°26.7	70°49.8	68°33.2	14°30.8	22°35.8	30°13.4	65°57.7	
19	331°47.6	10.7'	17°50.9	-12.9'	57.7'	113°52.9	70°22.7	67°59.5	13°57.1	23°09.3	30°46.7	66°30.8	
20	346°17.4	10.8'	17°37.9	-13.0'	57.7'	113°19.1	69°55.7	67°25.7	13°23.3	23°42.8	31°20.1	67°03.8	
21	0°47.2	10.9'	17°24.9	-13.1'	57.7'	112°45.4	69°28.8	66°52.0	12°49.6	24°16.3	31°53.4	67°36.9	
22	15°17.1	11.0'	17°11.9	-13.2'	57.7'	112°11.7	69°01.9	66°18.3	12°15.9	24°49.7	32°26.7	68°09.9	
23	29°47.1	11.1'	16°58.7	-13.2'	57.6'	111°38.0	68°35.1	65°44.6	11°42.2	25°23.2	33°00.0	68°42.9	
28th	SD = 15.8'		Mer. pass. 20:57			Sun SD = 16.0'							

h   Moon (29th Mar)   Lunar Distance (objects with largest hourly LD delta)

Sun	GHA	ν	Dec	d	HP	-Antares	-Arcturus	-Spica	-Regulus	+Pollux	+Jupiter	+Capella	+Aldebaran
0	44°17.2	11.2'	N16°45.5	-13.3'	57.6'	111°04.3	68°08.4	65°11.0	11°08.5	25°56.6	33°33.3	59°01.0	69°15.9
1	58°47.4	11.3'	16°32.1	-13.4'	57.6'	110°30.7	67°41.7	64°37.3	10°34.9	26°30.0	34°06.6	59°32.4	69°48.9
2	73°17.7	11.4'	16°18.8	-13.5'	57.6'	109°57.0	67°15.1	64°03.7	10°01.3	27°03.4	34°39.8	60°03.9	70°21.9
3	87°48.1	11.5'	16°05.3	-13.5'	57.6'	109°23.4	66°48.5	63°30.1	9°27.7	27°36.8	35°13.1	60°35.4	70°54.9
4	102°18.6	11.6'	15°51.8	-13.6'	57.5'	108°49.8	66°22.1	62°56.5	8°54.1	28°10.2	35°46.3	61°06.8	71°27.8
5	116°49.1	11.7'	15°38.2	-13.7'	57.5'	108°16.3	65°55.6	62°23.0	8°20.5	28°43.6	36°19.5	61°38.3	72°00.7
6	131°19.8	11.7'	N15°24.5	-13.7'	57.5'	107°42.7	65°29.3	61°49.5	7°47.0	29°17.0	36°52.7	62°09.8	72°33.7
7	145°50.5	11.8'	15°10.8	-13.8'	57.5'	107°09.2	65°03.0	61°15.9	7°13.5	29°50.3	37°25.9	62°41.3	73°06.6
8	160°21.4	11.9'	14°56.9	-13.9'	57.5'	106°35.6	64°36.9	60°42.4	6°40.0	30°23.7	37°59.1	63°12.8	73°39.4
9	174°52.3	12.0'	14°43.1	-13.9'	57.4'	106°02.2	64°10.7	60°09.0	6°06.6	30°57.0	38°32.2	63°44.2	74°12.3
10	189°23.3	12.1'	14°29.2	-14.0'	57.4'	105°28.7	63°44.7	59°35.5	5°33.1	31°30.3	39°05.4	64°15.7	74°45.1
11	203°54.4	12.2'	14°15.2	-14.0'	57.4'	104°55.2	63°18.7	59°02.1	4°59.8	32°03.6	39°38.5	64°47.2	75°18.0
12	218°25.6	12.3'	N14°01.1	-14.1'	57.4'	104°21.8	62°52.9	58°28.7	4°26.4	32°36.9	40°11.6	65°18.7	75°50.8
13	232°56.8	12.3'	13°47.0	-14.2'	57.4'	103°48.4	62°27.1	57°55.3	3°53.1	33°10.1	40°44.7	65°50.2	76°23.6
14	247°28.2	12.4'	13°32.8	-14.2'	57.4'	103°15.0	62°01.4	57°21.9	3°19.8	33°43.4	41°17.8	66°21.6	76°56.4
15	261°59.6	12.5'	13°18.6	-14.3'	57.3'	102°41.6	61°35.8	56°48.5	2°46.6	34°16.6	41°50.9	66°53.1	77°29.1
16	276°31.1	12.6'	13°04.4	-14.3'	57.3'	102°08.3	61°10.2	56°15.2	2°13.5	34°49.8	42°23.9	67°24.6	78°01.9
17	291°02.7	12.7'	12°50.0	-14.4'	57.3'	101°34.9	60°44.8	55°41.9	1°40.6	35°23.0	42°56.9	67°56.0	78°34.6
18	305°34.3	12.7'	N12°35.7	-14.4'	57.3'	101°01.6	60°19.4	55°08.6	1°08.2	35°56.2	43°29.9	68°27.5	79°07.3
19	320°06.1	12.8'	12°21.2	-14.5'	57.3'	100°28.3	59°54.2	54°35.3		36°29.3	44°02.9	68°58.9	79°40.0
20	334°37.9	12.9'	12°06.8	-14.5'	57.2'	99°55.1	59°29.0	54°02.1		37°02.5	44°35.9	69°30.4	80°12.7
21	349°09.8	13.0'	11°52.2	-14.6'	57.2'	99°21.8	59°03.9	53°28.8		37°35.6	45°08.9	70°01.8	80°45.4
22	3°41.7	13.0'	11°37.7	-14.6'	57.2'	98°48.6	58°39.0	52°55.6		38°08.7	45°41.8	70°33.3	81°18.0
23	18°13.8	13.1'	11°23.1	-14.7'	57.2'	98°15.4	58°14.1	52°22.5		38°41.8	46°14.7	71°04.7	81°50.6
29th	SD = 15.7'		Mer. pass. 21:45										

h   Moon (30th Mar)   Lunar Distance (objects with largest hourly LD delta)

Mon	GHA	ν	Dec	d	HP	-Antares	-Rigil Kent.	-Hadar	-Spica	+Regulus	+Pollux	+Jupiter	+Aldebaran
0	32°45.9	13.2'	N11°08.4	-14.7'	57.2'	97°42.2	88°27.1	84°28.0	51°49.3	2°15.2	39°14.9	46°47.6	82°23.2
1	47°18.0	13.2'	10°53.7	-14.7'	57.1'	97°09.0	88°00.8	84°02.4	51°16.1	2°48.1	39°48.0	47°20.5	82°55.8
2	61°50.3	13.3'	10°39.0	-14.8'	57.1'	96°35.9	87°34.5	83°36.8	50°43.0	3°21.1	40°21.0	47°53.4	83°28.4
3	76°22.6	13.4'	10°24.2	-14.8'	57.1'	96°02.8	87°08.2	83°11.2	50°09.9	3°54.1	40°54.0	48°26.2	84°00.9
4	90°55.0	13.4'	10°09.4	-14.8'	57.1'	95°29.7	86°42.0	82°45.6	49°36.8	4°27.1	41°27.0	48°59.0	84°33.4
5	105°27.4	13.5'	09°54.5	-14.9'	57.1'	94°56.6	86°15.7	82°20.1	49°03.8	5°00.1	42°00.0	49°31.8	85°06.0
6	119°59.9	13.6'	N09°39.7	-14.9'	57.0'	94°23.5	85°49.5	81°54.5	48°30.7	5°33.1	42°33.0	50°04.6	85°38.4
7	134°32.5	13.6'	09°24.8	-14.9'	57.0'	93°50.5	85°23.3	81°29.1	47°57.7	6°06.1	43°05.9	50°37.4	86°10.9
8	149°05.1	13.7'	09°09.8	-15.0'	57.0'	93°17.5	84°57.2	81°03.6	47°24.7	6°39.1	43°38.8	51°10.1	86°43.4
9	163°37.8	13.7'	08°54.8	-15.0'	57.0'	92°44.5	84°31.0	80°38.3	46°51.8	7°12.1	44°11.7	51°42.9	87°15.8
10	178°10.5	13.8'	08°39.8	-15.0'	56.9'	92°11.5	84°04.9	80°12.9	46°18.8	7°45.0	44°44.6	52°15.6	87°48.2
11	192°43.3	13.9'	08°24.8	-15.1'	56.9'	91°38.5	83°38.8	79°47.6	45°45.9	8°17.9	45°17.5	52°48.3	88°20.6
12	207°16.2	13.9'	N08°09.7	-15.1'	56.9'	91°05.6	83°12.8	79°22.3	45°13.0	8°50.8	45°50.3	53°21.0	88°52.9
13	221°49.1	14.0'	07°54.6	-15.1'	56.9'	90°32.7	82°46.8	78°57.1	44°40.1	9°23.7	46°23.2	53°53.6	89°25.3
14	236°22.1	14.0'	07°39.5	-15.1'	56.9'	89°59.8	82°20.8	78°31.9	44°07.2	9°56.6	46°56.0	54°26.2	89°57.6
15	250°55.1	14.1'	07°24.4	-15.2'	56.8'	89°26.9	81°54.9	78°06.7	43°34.4	10°29.5	47°28.8	54°58.8	90°29.9
16	265°28.2	14.1'	07°09.2	-15.2'	56.8'	88°54.1	81°28.9	77°41.6	43°01.5	11°02.3	48°01.5	55°31.4	91°02.2
17	280°01.3	14.2'	06°54.0	-15.2'	56.8'	88°21.3	81°03.1	77°16.5	42°28.7	11°35.1	48°34.3	56°04.0	91°34.5
18	294°34.5	14.2'	N06°38.8	-15.2'	56.8'	87°48.5	80°37.2	76°51.5	41°56.0	12°07.9	49°07.0	56°36.6	92°06.7
19	309°07.8	14.3'	06°23.6	-15.2'	56.8'	87°15.7	80°11.4	76°26.5	41°23.2	12°40.7	49°39.7	57°09.1	92°38.9
20	323°41.0	14.3'	06°08.4	-15.3'	56.7'	86°42.9	79°45.6	76°01.6	40°50.5	13°13.5	50°12.4	57°41.6	93°11.1
21	338°14.4	14.4'	05°53.1	-15.3'	56.7'	86°10.2	79°19.9	75°36.7	40°17.8	13°46.2	50°45.1	58°14.1	93°43.3
22	352°47.7	14.4'	05°37.9	-15.3'	56.7'	85°37.4	78°54.2	75°11.9	39°45.1	14°18.9	51°17.7	58°46.6	94°15.4
23	7°21.2	14.5'	05°22.6	-15.3'	56.7'	85°04.7	78°28.6	74°47.1	39°12.4	14°51.6	51°50.4	59°19.0	94°47.6
30th	SD = 15.6'		Mer. pass. 22:30										

h   Moon (31st Mar)   Lunar Distance (objects with largest hourly LD delta)

Tue	GHA	ν	Dec	d	HP	-Antares	-Rigil Kent.	-Hadar	-Spica	+Regulus	+Pollux	+Jupiter	+Aldebaran
0	21°54.6	14.5'	N05°07.3	-15.3'	56.7'	84°32.1	78°02.9	74°22.4	38°39.8	15°24.3	52°23.0	59°51.4	95°19.7
1	36°28.1	14.5'	04°52.0	-15.3'	56.6'	83°59.4	77°37.4	73°57.8	38°07.1	15°56.9	52°55.6	60°23.8	95°51.8
2	51°01.7	14.6'	04°36.7	-15.3'	56.6'	83°26.8	77°11.9	73°33.1	37°34.5	16°29.6	53°28.1	60°56.2	96°23.8
3	65°35.3	14.6'	04°21.4	-15.3'	56.6'	82°54.2	76°46.4	73°08.6	37°02.0	17°02.2	54°00.7	61°28.6	96°55.9
4	80°08.9	14.7'	04°06.0	-15.3'	56.6'	82°21.6	76°20.9	72°44.1	36°29.4	17°34.8	54°33.2	62°00.9	97°27.9
5	94°42.5	14.7'	03°50.7	-15.3'	56.6'	81°49.0	75°55.6	72°19.7	35°56.9	18°07.3	55°05.7	62°33.3	97°59.9
6	109°16.2	14.7'	N03°35.4	-15.3'	56.5'	81°16.5	75°30.2	71°55.3	35°24.4	18°39.9	55°38.2	63°05.6	98°31.9
7	123°50.0	14.8'	03°20.0	-15.4'	56.5'	80°43.9	75°04.9	71°31.0	34°51.9	19°12.4	56°10.7	63°37.8	99°03.8
8	138°23.7	14.8'	03°04.7	-15.4'	56.5'	80°11.4	74°39.7	71°06.7	34°19.4	19°44.9	56°43.1	64°10.1	99°35.7
9	152°57.5	14.8'	02°49.3	-15.4'	56.5'	79°39.0	74°14.5	70°42.5	33°47.0	20°17.4	57°15.5	64°42.3	100°07.7
10	167°31.4	14.9'	02°33.9	-15.4'	56.5'	79°06.5	73°49.3	70°18.4	33°14.6	20°49.8	57°47.9	65°14.6	100°39.5
11	182°05.2	14.9'	02°18.6	-15.4'	56.4'	78°34.1	73°24.3	69°54.3	32°42.2	21°22.3	58°20.3	65°46.7	101°11.4
12	196°39.1	14.9'	N02°03.2	-15.4'	56.4'	78°01.6	72°59.2	69°30.3	32°09.8	21°54.7	58°52.7	66°18.9	101°43.2
13	211°13.1	14.9'	01°47.9	-15.3'	56.4'	77°29.3	72°34.2	69°06.4	31°37.5	22°27.1	59°25.0	66°51.1	102°15.0
14	225°47.0	15.0'	01°32.5	-15.3'	56.4'	76°56.9	72°09.3	68°42.5	31°05.1	22°59.4	59°57.3	67°23.2	102°46.8
15	240°21.0	15.0'	01°17.2	-15.3'	56.4'	76°24.5	71°44.5	68°18.7	30°32.8	23°31.8	60°29.6	67°55.3	103°18.6
16	254°55.0	15.0'	01°01.9	-15.3'	56.3'	75°52.2	71°19.6	67°55.0	30°00.6	24°04.1	61°01.9	68°27.4	103°50.3
17	269°29.0	15.0'	00°46.5	-15.3'	56.3'	75°19.9	70°54.9	67°31.4	29°28.3	24°36.4	61°34.1	68°59.5	104°22.0
18	284°03.1	15.1'	N00°31.2	-15.3'	56.3'	74°47.6	70°30.2	67°07.8	28°56.1	25°08.7	62°06.3	69°31.5	104°53.7
19	298°37.1	15.1'	00°15.9	-15.3'	56.3'	74°15.4	70°05.6	66°44.3	28°23.9	25°40.9	62°38.6	70°03.5	105°25.4
20	313°11.2	15.1'	N00°00.6	-15.3'	56.3'	73°43.1	69°41.0	66°20.9	27°51.7	26°13.2	63°10.7	70°35.5	105°57.0
21	327°45.3	15.1'	S00°14.7	-15.3'	56.2'	73°10.9	69°16.5	65°57.6	27°19.5	26°45.4	63°42.9	71°07.5	106°28.6
22	342°19.4	15.1'	00°30.0	-15.3'	56.2'	72°38.7	68°52.1	65°34.3	26°47.4	27°17.6	64°15.0	71°39.5	107°00.2
23	356°53.6	15.2'	00°45.3	-15.3'	56.2'	72°06.5	68°27.7	65°11.1	26°15.3	27°49.8	64°47.2	72°11.4	107°31.8
31st	SD = 15.5'		Mer. pass. 23:13										

h   Moon (1st Apr)   Lunar Distance (objects with largest hourly LD delta)

Wed	GHA	ν	Dec	*d*	HP	-Altair	-Antares	-Rigil Kent.	-Spica	+Regulus	+Pollux	+Jupiter	+Aldebaran
0	11°27.8	15.2'	**S**01°00.5	-15.2'	56.2'	119°52.8	71°34.4	68°03.4	25°43.2	28°21.9	65°19.3	72°43.3	108°03.3
1	26°01.9	15.2'	01°15.8	-15.2'	56.2'	119°27.5	71°02.3	67°39.2	25°11.2	28°54.0	65°51.3	73°15.2	108°34.8
2	40°36.1	15.2'	01°31.0	-15.2'	56.1'	119°02.1	70°30.2	67°15.1	24°39.1	29°26.1	66°23.4	73°47.1	109°06.3
3	55°10.3	15.2'	01°46.2	-15.2'	56.1'	118°36.7	69°58.1	66°51.0	24°07.1	29°58.2	66°55.4	74°18.9	109°37.8
4	69°44.5	15.2'	02°01.4	-15.2'	56.1'	118°11.2	69°26.0	66°27.0	23°35.2	30°30.3	67°27.4	74°50.7	110°09.2
5	84°18.8	15.2'	02°16.6	-15.2'	56.1'	117°45.7	68°54.0	66°03.0	23°03.2	31°02.3	67°59.4	75°22.5	110°40.6
6	98°53.0	15.2'	**S**02°31.7	-15.1'	56.0'	117°20.2	68°22.0	65°39.1	22°31.3	31°34.3	68°31.4	75°54.3	111°12.0
7	113°27.2	15.3'	02°46.8	-15.1'	56.0'	116°54.6	67°50.0	65°15.4	21°59.4	32°06.3	69°03.3	76°26.1	111°43.4
8	128°01.5	15.3'	03°01.9	-15.1'	56.0'	116°29.0	67°18.0	64°51.7	21°27.5	32°38.3	69°35.2	76°57.8	112°14.7
9	142°35.8	15.3'	03°17.0	-15.1'	56.0'	116°03.3	66°46.1	64°28.0	20°55.7	33°10.2	70°07.1	77°29.5	112°46.0
10	157°10.0	15.3'	03°32.1	-15.0'	56.0'	115°37.7	66°14.2	64°04.5	20°23.8	33°42.2	70°39.0	78°01.2	113°17.3
11	171°44.3	15.3'	03°47.1	-15.0'	55.9'	115°11.9	65°42.3	63°41.0	19°52.0	34°14.1	71°10.9	78°32.8	113°48.5
12	186°18.6	15.3'	**S**04°02.1	-15.0'	55.9'	114°46.2	65°10.4	63°17.6	19°20.3	34°45.9	71°42.7	79°04.5	114°19.7
13	200°52.8	15.3'	04°17.1	-15.0'	55.9'	114°20.4	64°38.5	62°54.3	18°48.5	35°17.8	72°14.5	79°36.1	114°50.9
14	215°27.1	15.3'	04°32.1	-14.9'	55.9'	113°54.6	64°06.7	62°31.1	18°16.8	35°49.6	72°46.3	80°07.7	115°22.1
15	230°01.4	15.3'	04°47.0	-14.9'	55.9'	113°28.8	63°34.9	62°08.0	17°45.2	36°21.4	73°18.1	80°39.3	115°53.2
16	244°35.7	15.3'	05°01.9	-14.9'	55.8'	113°02.9	63°03.1	61°45.0	17°13.5	36°53.2	73°49.8	81°10.8	116°24.3
17	259°09.9	15.3'	05°16.8	-14.8'	55.8'	112°37.0	62°31.3	61°22.0	16°41.9	37°25.0	74°21.5	81°42.4	116°55.4
18	273°44.2	15.3'	**S**05°31.6	-14.8'	55.8'	112°11.1	61°59.6	60°59.2	16°10.3	37°56.7	74°53.2	82°13.9	117°26.5
19	288°18.5	15.3'	05°46.4	-14.8'	55.8'	111°45.2	61°27.9	60°36.5	15°38.8	38°28.5	75°24.9	82°45.4	117°57.5
20	302°52.7	15.3'	06°01.2	-14.7'	55.8'	111°19.3	60°56.2	60°13.8	15°07.3	39°00.2	75°56.6	83°16.8	118°28.5
21	317°27.0	15.3'	06°15.9	-14.7'	55.7'	110°53.3	60°24.5	59°51.3	14°35.8	39°31.8	76°28.2	83°48.3	118°59.4
22	332°01.3	15.2'	06°30.6	-14.7'	55.7'	110°27.3	59°52.9	59°28.8	14°04.4	40°03.5	76°59.8	84°19.7	119°30.4
23	346°35.5	15.2'	06°45.2	-14.6'	55.7'	110°01.3	59°21.2	59°06.4	13°33.0	40°35.1	77°31.4	84°51.1	
1st	SD = 15.3′		Mer. pass. 23:55										

h   Moon (2nd Apr)   Lunar Distance (objects with largest hourly LD delta)

Thu	GHA	ν	Dec	*d*	HP	-Altair	-Antares	-Rigil Kent.	-Spica	+Regulus	+Pollux	+Jupiter	+Capella
0	1°09.7	15.2'	**S**06°59.9	-14.6'	55.7'	109°35.3	58°49.6	58°44.2	13°01.6	41°06.7	78°02.9	85°22.4	108°33.0
1	15°44.0	15.2'	07°14.4	-14.5'	55.7'	109°09.3	58°18.0	58°22.1	12°30.3	41°38.3	78°34.5	85°53.8	109°02.9
2	30°18.2	15.2'	07°29.0	-14.5'	55.6'	108°43.2	57°46.5	58°00.0	11°59.0	42°09.9	79°06.0	86°25.1	109°32.8
3	44°52.4	15.2'	07°43.5	-14.5'	55.6'	108°17.2	57°14.9	57°38.1	11°27.8	42°41.4	79°37.5	86°56.4	110°02.6
4	59°26.6	15.2'	07°57.9	-14.4'	55.6'	107°51.1	56°43.4	57°16.3	10°56.6	43°12.9	80°09.0	87°27.7	110°32.4
5	74°00.8	15.2'	08°12.4	-14.4'	55.6'	107°25.0	56°11.9	56°54.6	10°25.5	43°44.4	80°40.4	87°58.9	111°02.1
6	88°34.9	15.2'	**S**08°26.7	-14.3'	55.6'	106°58.9	55°40.5	56°33.0	9°54.4	44°15.9	81°11.9	88°30.2	111°31.9
7	103°09.1	15.1'	08°41.1	-14.3'	55.5'	106°32.8	55°09.0	56°11.5	9°23.4	44°47.3	81°43.3	89°01.4	112°01.6
8	117°43.2	15.1'	08°55.3	-14.2'	55.5'	106°06.7	54°37.6	55°50.2	8°52.5	45°18.8	82°14.6	89°32.6	112°31.2
9	132°17.3	15.1'	09°09.6	-14.2'	55.5'	105°40.6	54°06.2	55°28.9	8°21.7	45°50.2	82°46.0	90°03.7	113°00.9
10	146°51.4	15.1'	09°23.8	-14.1'	55.5'	105°14.5	53°34.8	55°07.8	7°51.0	46°21.6	83°17.3	90°34.9	113°30.4
11	161°25.5	15.1'	09°37.9	-14.1'	55.5'	104°48.4	53°03.4	54°46.9	7°20.4	46°52.9	83°48.7	91°06.0	114°00.0
12	175°59.6	15.0'	**S**09°52.0	-14.0'	55.4'	104°22.2	52°32.1	54°26.0	6°49.9	47°24.3	84°20.0	91°37.1	114°29.5
13	190°33.6	15.0'	10°06.0	-14.0'	55.4'	103°56.1	52°00.8	54°05.3	6°19.6	47°55.6	84°51.2	92°08.2	114°59.0
14	205°07.7	15.0'	10°20.0	-13.9'	55.4'	103°30.0	51°29.5	53°44.7	5°49.5	48°26.9	85°22.5	92°39.2	115°28.4
15	219°41.7	15.0'	10°34.0	-13.9'	55.4'	103°03.8	50°58.2	53°24.2	5°19.6	48°58.1	85°53.7	93°10.3	115°57.9
16	234°15.6	15.0'	10°47.9	-13.8'	55.4'	102°37.7	50°27.0	53°03.9	4°50.0	49°29.4	86°24.9	93°41.3	116°27.2
17	248°49.6	14.9'	11°01.7	-13.8'	55.4'	102°11.5	49°55.8	52°43.7	4°20.9	50°00.6	86°56.1	94°12.3	116°56.6
18	263°23.5	14.9'	**S**11°15.5	-13.7'	55.3'	101°45.4	49°24.6	52°23.7	3°52.3	50°31.8	87°27.3	94°43.2	117°25.9
19	277°57.4	14.9'	11°29.2	-13.7'	55.3'	101°19.3	48°53.4	52°03.8	3°24.5	51°03.0	87°58.4	95°14.2	117°55.1
20	292°31.3	14.9'	11°42.9	-13.6'	55.3'	100°53.1	48°22.2	51°44.0		51°34.2	88°29.5	95°45.1	118°24.3
21	307°05.1	14.8'	11°56.5	-13.6'	55.3'	100°27.0	47°51.1	51°24.4		52°05.3	89°00.6	96°16.0	118°53.5
22	321°39.0	14.8'	12°10.0	-13.5'	55.3'	100°00.9	47°20.0	51°04.9		52°36.4	89°31.7	96°46.8	119°22.7
23	336°12.8	14.8'	12°23.5	-13.4'	55.2'	99°34.7	46°48.9	50°45.6		53°07.5	90°02.7	97°17.7	119°51.8
2nd	SD = 15.2′		Mer. pass. –:–										

h   Moon (3rd Apr)   Lunar Distance (objects with largest hourly LD delta)

Fri	GHA	ν	Dec	*d*	HP	-Fomalhaut	-Altair	-Rigil Kent.	-Antares	+Spica	+Regulus	+Pollux	+Jupiter
0	350°46.5	14.7'	**S**12°37.0	-13.4'	55.2'		99°08.6	50°26.5	46°17.8		53°38.6	90°33.8	97°48.5
1	5°20.3	14.7'	12°50.3	-13.3'	55.2'		98°42.5	50°07.5	45°46.8		54°09.6	91°04.8	98°19.3
2	19°54.0	14.7'	13°03.7	-13.2'	55.2'		98°16.4	49°48.6	45°15.8		54°40.7	91°35.8	98°50.1
3	34°27.6	14.6'	13°16.9	-13.2'	55.2'		97°50.3	49°30.0	44°44.8		55°11.7	92°06.7	99°20.9
4	49°01.3	14.6'	13°30.1	-13.1'	55.1'		97°24.2	49°11.5	44°13.8		55°42.6	92°37.7	99°51.6
5	63°34.9	14.6'	13°43.2	-13.1'	55.1'		96°58.1	48°53.1	43°42.8		56°13.6	93°08.6	100°22.3
6	78°08.5	14.5'	**S**13°56.3	-13.0'	55.1'		96°32.0	48°35.0	43°11.9		56°44.6	93°39.5	100°53.0
7	92°42.0	14.5'	14°09.3	-12.9'	55.1'		96°05.9	48°17.0	42°41.0		57°15.5	94°10.4	101°23.7
8	107°15.5	14.5'	14°22.2	-12.9'	55.1'		95°39.8	47°59.2	42°10.1	4°04.9	57°46.4	94°41.2	101°54.4
9	121°49.0	14.4'	14°35.0	-12.8'	55.1'		95°13.8	47°41.5	41°39.2	4°33.4	58°17.3	95°12.1	102°25.0
10	136°22.4	14.4'	14°47.8	-12.7'	55.0'		94°47.7	47°24.1	41°08.3	5°02.4	58°48.1	95°42.9	102°55.6
11	150°55.8	14.4'	15°00.5	-12.6'	55.0'		94°21.7	47°06.8	40°37.5	5°31.7	59°18.9	96°13.7	103°26.2
12	165°29.2	14.3'	**S**15°13.2	-12.6'	55.0'	119°56.6	93°55.7	46°49.8	40°06.7	6°01.3	59°49.8	96°44.4	103°56.7
13	180°02.5	14.3'	15°25.8	-12.5'	55.0'	119°28.5	93°29.7	46°32.9	39°35.9	6°31.0	60°20.5	97°15.2	104°27.3
14	194°35.8	14.2'	15°38.3	-12.4'	55.0'	119°00.3	93°03.7	46°16.2	39°05.1	7°00.8	60°51.3	97°45.9	104°57.8
15	209°09.0	14.2'	15°50.7	-12.4'	55.0'	118°32.2	92°37.7	45°59.7	38°34.4	7°30.8	61°22.1	98°16.6	105°28.3
16	223°42.2	14.2'	16°03.1	-12.3'	54.9'	118°04.0	92°11.7	45°43.4	38°03.7	8°00.8	61°52.8	98°47.3	105°58.8
17	238°15.4	14.1'	16°15.3	-12.2'	54.9'	117°35.8	91°45.8	45°27.3	37°32.9	8°30.9	62°23.5	99°18.0	106°29.3
18	252°48.5	14.1'	**S**16°27.5	-12.1'	54.9'	117°07.7	91°19.8	45°11.5	37°02.3	9°01.0	62°54.2	99°48.6	106°59.7
19	267°21.5	14.0'	16°39.7	-12.1'	54.9'	116°39.5	90°53.9	44°55.8	36°31.6	9°31.2	63°24.9	100°19.3	107°30.1
20	281°54.6	14.0'	16°51.7	-12.0'	54.9'	116°11.3	90°28.0	44°40.3	36°01.0	10°01.4	63°55.5	100°49.9	108°00.5
21	296°27.6	13.9'	17°03.7	-11.9'	54.9'	115°43.2	90°02.1	44°25.1	35°30.3	10°31.6	64°26.2	101°20.4	108°30.9
22	311°00.5	13.9'	17°15.6	-11.8'	54.8'	115°15.0	89°36.2	44°10.1	34°59.7	11°01.9	64°56.8	101°51.0	109°01.2
23	325°33.4	13.9'	17°27.4	-11.7'	54.8'	114°46.8	89°10.3		34°29.1	11°32.1	65°27.3	102°21.6	109°31.6
3rd	SD = 15.1′		Mer. pass. 00:38										

h   Moon (4th Apr)   Lunar Distance (objects with largest hourly LD delta)

Sat	GHA	ν	Dec	*d*	HP	-Fomalhaut	-Altair	-Antares	+Spica	+Regulus	+Procyon	+Pollux	+Jupiter
0	340°06.3	13.8'	**S**17°39.1	-11.7'	54.8'	114°18.6	88°44.5	33°58.6	12°02.4	65°57.9	98°15.9	102°52.1	110°01.9
1	354°39.1	13.8'	17°50.8	-11.6'	54.8'	113°50.5	88°18.7	33°28.0	12°32.7	66°28.5	98°44.7	103°22.6	110°32.2
2	9°11.9	13.7'	18°02.4	-11.5'	54.8'	113°22.3	87°52.9	32°57.5	13°02.9	66°59.0	99°13.4	103°53.1	111°02.4
3	23°44.6	13.7'	18°13.8	-11.4'	54.8'	112°54.1	87°27.1	32°27.0	13°33.2	67°29.5	99°42.2	104°23.5	111°32.7
4	38°17.3	13.6'	18°25.2	-11.3'	54.7'	112°25.9	87°01.3	31°56.5	14°03.5	68°00.0	100°10.8	104°54.0	112°02.9
5	52°49.9	13.6'	18°36.6	-11.2'	54.7'	111°57.8	86°35.6	31°26.1	14°33.8	68°30.5	100°39.5	105°24.4	112°33.1
6	67°22.5	13.5'	**S**18°47.8	-11.1'	54.7'	111°29.6	86°09.8	30°55.6	15°04.0	69°00.9	101°08.2	105°54.8	113°03.3
7	81°55.0	13.5'	18°58.9	-11.1'	54.7'	111°01.4	85°44.1	30°25.2	15°34.3	69°31.4	101°36.8	106°25.2	113°33.5
8	96°27.5	13.4'	19°10.0	-11.0'	54.7'	110°33.3	85°18.4	29°54.8	16°04.5	70°01.8	102°05.4	106°55.6	114°03.6
9	110°59.9	13.4'	19°21.0	-10.9'	54.7'	110°05.1	84°52.8	29°24.4	16°34.7	70°32.2	102°33.9	107°25.9	114°33.8
10	125°32.3	13.3'	19°31.8	-10.8'	54.7'	109°37.0	84°27.1	28°54.0	17°05.0	71°02.5	103°02.5	107°56.3	115°03.9
11	140°04.6	13.3'	19°42.6	-10.7'	54.6'	109°08.8	84°01.5	28°23.7	17°35.2	71°32.9	103°31.0	108°26.6	115°34.0
12	154°36.9	13.2'	**S**19°53.3	-10.6'	54.6'	108°40.6	83°35.9	27°53.3	18°05.4	72°03.2	103°59.5	108°56.9	116°04.1
13	169°09.2	13.2'	20°03.9	-10.5'	54.6'	108°12.5	83°10.4	27°23.0	18°35.6	72°33.6	104°28.0	109°27.1	116°34.1
14	183°41.4	13.1'	20°14.5	-10.4'	54.6'	107°44.4	82°44.8	26°52.7	19°05.8	73°03.9	104°56.4	109°57.4	117°04.2
15	198°13.5	13.1'	20°24.9	-10.3'	54.6'	107°16.2	82°19.3	26°22.4	19°36.0	73°34.1	105°24.9	110°27.6	117°34.2
16	212°45.6	13.0'	20°35.2	-10.2'	54.6'	106°48.1	81°53.8	25°52.2	20°06.1	74°04.4	105°53.3	110°57.8	118°04.2
17	227°17.6	13.0'	20°45.4	-10.1'	54.6'	106°20.0	81°28.3	25°21.9	20°36.3	74°34.7	106°21.6	111°28.0	118°34.2
18	241°49.6	12.9'	**S**20°55.6	-10.0'	54.5'	105°51.9	81°02.9	24°51.7	21°06.4	75°04.9	106°50.0	111°58.2	119°04.1
19	256°21.5	12.9'	21°05.6	-9.9'	54.5'	105°23.7	80°37.5	24°21.5	21°36.5	75°35.1	107°18.3	112°28.4	119°34.1
20	270°53.4	12.8'	21°15.6	-9.8'	54.5'	104°55.6	80°12.1	23°51.3	22°06.6	76°05.3	107°46.6	112°58.5	
21	285°25.3	12.8'	21°25.4	-9.7'	54.5'	104°27.5	79°46.7	23°21.2	22°36.7	76°35.5	108°14.9	113°28.7	
22	299°57.0	12.7'	21°35.2	-9.6'	54.5'	103°59.4	79°21.4	22°51.0	23°06.8	77°05.7	108°43.1	113°58.8	
23	314°28.8	12.7'	21°44.8	-9.5'	54.5'	103°31.4	78°56.1	22°20.9	23°36.9	77°35.8	109°11.3	114°28.9	
4th	SD = 14.9′		Mer. pass. 01:22										

h   Moon (5th Apr)   Lunar Distance (objects with largest hourly LD delta)

Sun	GHA	ν	Dec	*d*	HP	-Mars	-Fomalhaut	-Altair	-Antares	+Spica	+Regulus	+Procyon	+Pollux
0	329°00.5	12.6'	**S**21°54.4	-9.4'	54.5'		103°03.3	78°30.8	21°50.7	24°06.9	78°05.9	109°39.5	114°59.0
1	343°32.1	12.6'	22°03.8	-9.3'	54.4'		102°35.2	78°05.6	21°20.6	24°37.0	78°36.1	110°07.7	115°29.0
2	358°03.7	12.5'	22°13.2	-9.2'	54.4'		102°07.1	77°40.3	20°50.6	25°07.0	79°06.2	110°35.8	115°59.1
3	12°35.2	12.5'	22°22.4	-9.1'	54.4'		101°39.1	77°15.2	20°20.5	25°37.0	79°36.2	111°03.9	116°29.1
4	27°06.7	12.4'	22°31.5	-9.0'	54.4'		101°11.0	76°50.0	19°50.4	26°07.0	80°06.3	111°32.0	116°59.1
5	41°38.1	12.4'	22°40.6	-8.9'	54.4'		100°43.0	76°24.9	19°20.4	26°37.0	80°36.4	112°00.1	117°29.1
6	56°09.4	12.3'	**S**22°49.5	-8.8'	54.4'		100°15.0	75°59.8	18°50.4	27°07.0	81°06.4	112°28.1	117°59.1
7	70°40.7	12.3'	22°58.3	-8.7'	54.4'		99°46.9	75°34.7	18°20.4	27°36.9	81°36.4	112°56.1	118°29.1
8	85°12.0	12.2'	23°07.1	-8.6'	54.4'		99°18.9	75°09.7	17°50.4	28°06.9	82°06.4	113°24.0	118°59.0
9	99°43.2	12.2'	23°15.7	-8.5'	54.4'		98°50.9	74°44.7	17°20.4	28°36.8	82°36.4	113°52.0	119°29.0
10	114°14.4	12.1'	23°24.2	-8.4'	54.3'		98°22.9	74°19.7	16°50.4	29°06.8	83°06.4	114°19.9	119°58.9
11	128°45.5	12.1'	23°32.6	-8.3'	54.3'		97°54.9	73°54.8	16°20.5	29°36.7	83°36.4	114°47.8	
12	143°16.5	12.0'	**S**23°40.9	-8.2'	54.3'		97°26.9	73°29.9	15°50.6	30°06.6	84°06.3	115°15.6	
13	157°47.5	12.0'	23°49.0	-8.1'	54.3'		96°58.9	73°05.1	15°20.6	30°36.5	84°36.2	115°43.5	
14	172°18.5	11.9'	23°57.1	-8.0'	54.3'		96°31.0	72°40.3	14°50.8	31°06.3	85°06.2	116°11.2	
15	186°49.4	11.9'	24°05.1	-7.8'	54.3'		96°03.0	72°15.5	14°20.9	31°36.2	85°36.1	116°39.0	
16	201°20.2	11.8'	24°12.9	-7.7'	54.3'		95°35.1	71°50.7	13°51.0	32°06.0	86°06.0	117°06.7	
17	215°51.0	11.7'	24°20.7	-7.6'	54.3'	119°48.9	95°07.1	71°26.0	13°21.1	32°35.9	86°35.8	117°34.4	
18	230°21.8	11.7'	**S**24°28.3	-7.5'	54.3'	119°21.0	94°39.2	71°01.3	12°51.3	33°05.7	87°05.7	118°02.1	
19	244°52.5	11.6'	24°35.8	-7.4'	54.3'	118°53.2	94°11.3	70°36.7	12°21.5	33°35.5	87°35.6	118°29.8	
20	259°23.1	11.6'	24°43.2	-7.3'	54.2'	118°25.3	93°43.4	70°12.1	11°51.7	34°05.3	88°05.4	118°57.4	
21	273°53.7	11.6'	24°50.4	-7.2'	54.2'	117°57.5	93°15.5	69°47.6	11°21.9	34°35.1	88°35.2	119°24.9	
22	288°24.3	11.5'	24°57.6	-7.0'	54.2'	117°29.6	92°47.6	69°23.1	10°52.1	35°04.9	89°05.1	119°52.5	
23	302°54.8	11.5'	25°04.6	-6.9'	54.2'	117°01.8	92°19.7	68°58.6	10°22.3	35°34.7	89°34.9		
5th	SD = 14.9′		Mer. pass. 02:08										

h   Moon (6th Apr)   Lunar Distance (objects with largest hourly LD delta)

Mon	GHA	ν	Dec	*d*	HP	-Saturn	-Mars	-Fomalhaut	-Altair	-Antares	+Spica	+Arcturus	+Regulus
0	317°25.2	11.4'	**S**25°11.6	-6.8'	54.2'		116°34.0	91°51.8	68°34.2	9°52.6	36°04.4	49°25.3	90°04.7
1	331°55.7	11.4'	25°18.4	-6.7'	54.2'		116°06.2	91°24.0	68°09.8	9°22.9	36°34.2	49°45.3	90°34.5
2	346°26.0	11.3'	25°25.1	-6.6'	54.2'		115°38.4	90°56.1	67°45.4	8°53.2	37°03.9	50°05.4	91°04.2
3	0°56.3	11.3'	25°31.6	-6.5'	54.2'		115°10.6	90°28.3	67°21.1	8°23.5	37°33.6	50°25.6	91°34.0
4	15°26.6	11.2'	25°38.1	-6.3'	54.2'		114°42.8	90°00.4	66°56.9	7°53.8	38°03.4	50°45.9	92°03.7
5	29°56.8	11.2'	25°44.4	-6.2'	54.2'		114°15.1	89°32.6	66°32.7	7°24.1	38°33.1	51°06.3	92°33.5
6	44°27.0	11.1'	**S**25°50.6	-6.1'	54.2'		113°47.3	89°04.8	66°08.5	6°54.5	39°02.8	51°26.8	93°03.2
7	58°57.1	11.1'	25°56.7	-6.0'	54.2'		113°19.6	88°37.0	65°44.4	6°24.9	39°32.5	51°47.5	93°32.9
8	73°27.2	11.0'	26°02.7	-5.8'	54.2'		112°51.8	88°09.2	65°20.3	5°55.3	40°02.1	52°08.2	94°02.7
9	87°57.2	11.0'	26°08.5	-5.7'	54.2'		112°24.1	87°41.4	64°56.3	5°25.8	40°31.8	52°29.0	94°32.4
10	102°27.2	10.9'	26°14.3	-5.6'	54.1'		111°56.4	87°13.6	64°32.3	4°56.3	41°01.5	52°49.9	95°02.1
11	116°57.1	10.9'	26°19.9	-5.5'	54.1'		111°28.7	86°45.9	64°08.4	4°26.8	41°31.1	53°10.9	95°31.7
12	131°27.1	10.9'	**S**26°25.3	-5.3'	54.1'	119°38.8	111°01.0	86°18.1	63°44.5	3°57.4	42°00.8	53°32.0	96°01.4
13	145°56.9	10.8'	26°30.7	-5.2'	54.1'	119°09.5	110°33.3	85°50.4	63°20.7	3°28.1	42°30.4	53°53.1	96°31.1
14	160°26.7	10.8'	26°35.9	-5.1'	54.1'	118°40.3	110°05.6	85°22.6	62°56.9	2°59.0	43°00.1	54°14.4	97°00.7
15	174°56.5	10.7'	26°41.0	-5.0'	54.1'	118°11.1	109°37.9	84°54.9	62°33.2	2°30.0	43°29.7	54°35.7	97°30.4
16	189°26.3	10.7'	26°46.0	-4.8'	54.1'	117°41.8	109°10.3	84°27.2	62°09.5	2°01.4	43°59.3	54°57.1	98°00.0
17	203°56.0	10.7'	26°50.8	-4.7'	54.1'	117°12.6	108°42.6	83°59.5	61°45.9	1°33.4	44°28.9	55°18.6	98°29.7
18	218°25.6	10.6'	**S**26°55.5	-4.6'	54.1'	116°43.4	108°15.0	83°31.8	61°22.4		44°58.5	55°40.2	98°59.3
19	232°55.3	10.6'	27°00.1	-4.5'	54.1'	116°14.2	107°47.3	83°04.1	60°58.9		45°28.1	56°01.9	99°28.9
20	247°24.8	10.6'	27°04.6	-4.3'	54.1'	115°45.0	107°19.7	82°36.4	60°35.4		45°57.7	56°23.6	99°58.6
21	261°54.4	10.5'	27°08.9	-4.2'	54.1'	115°15.8	106°52.0	82°08.7	60°12.1		46°27.3	56°45.4	100°28.2
22	276°23.9	10.5'	27°13.1	-4.1'	54.1'	114°46.6	106°24.4	81°41.1	59°48.7		46°56.9	57°07.3	100°57.8
23	290°53.4	10.4'	27°17.2	-3.9'	54.1'	114°17.4	105°56.8	81°13.4	59°25.5		47°26.5	57°29.2	101°27.4
6th	SD = 14.8′		Mer. pass. 02:56										

h Moon (7th Apr) Lunar Distance (objects with largest hourly LD delta)

Tue	GHA	ν	Dec	d	HP	-Sun	-Saturn	-Mars	-Fomalhaut	+Antares	+Spica	+Arcturus	+Regulus
0	305°22.9	10.4′	**S**27°21.1	-3.8′	54.1′		113°48.3	105°29.2	80°45.8		47°56.1	57°51.3	101°57.0
1	319°52.3	10.4′	27°25.0	-3.7′	54.1′		113°19.1	105°01.5	80°18.2	2°34.4	48°25.6	58°13.3	102°26.6
2	334°21.6	10.4′	27°28.6	-3.6′	54.1′		112°49.9	104°33.9	79°50.5	3°03.3	48°55.2	58°35.5	102°56.2
3	348°51.0	10.3′	27°32.2	-3.4′	54.1′		112°20.8	104°06.3	79°22.9	3°32.4	49°24.8	58°57.7	103°25.7
4	3°20.3	10.3′	27°35.6	-3.3′	54.1′		111°51.6	103°38.7	78°55.3	4°01.7	49°54.3	59°20.0	103°55.3
5	17°49.6	10.3′	27°38.9	-3.2′	54.1′		111°22.4	103°11.1	78°27.7	4°30.9	50°23.9	59°42.3	104°24.9
6	32°18.9	10.2′	**S**27°42.1	-3.0′	54.1′		110°53.3	102°43.5	78°00.2	5°00.3	50°53.4	60°04.7	104°54.5
7	46°48.1	10.2′	27°45.1	-2.9′	54.1′		110°24.1	102°15.9	77°32.6	5°29.7	51°23.0	60°27.2	105°24.0
8	61°17.3	10.2′	27°48.0	-2.8′	54.1′		109°55.0	101°48.4	77°05.0	5°59.1	51°52.5	60°49.7	105°53.6
9	75°46.5	10.2′	27°50.7	-2.6′	54.1′		109°25.8	101°20.8	76°37.5	6°28.5	52°22.1	61°12.3	106°23.2
10	90°15.7	10.1′	27°53.4	-2.5′	54.1′		108°56.7	100°53.2	76°10.0	6°58.0	52°51.6	61°34.9	106°52.7
11	104°44.8	10.1′	27°55.8	-2.4′	54.1′	119°54.5	108°27.5	100°25.6	75°42.4	7°27.4	53°21.1	61°57.6	107°22.3
12	119°13.9	10.1′	**S**27°58.2	-2.2′	54.1′	119°27.4	107°58.4	99°58.0	75°14.9	7°56.9	53°50.7	62°20.3	107°51.8
13	133°43.0	10.1′	28°00.4	-2.1′	54.1′	119°00.4	107°29.2	99°30.4	74°47.4	8°26.4	54°20.2	62°43.1	108°21.4
14	148°12.1	10.0′	28°02.5	-2.0′	54.1′	118°33.3	107°00.1	99°02.9	74°19.9	8°55.9	54°49.8	63°06.0	108°51.0
15	162°41.1	10.0′	28°04.5	-1.8′	54.1′	118°06.3	106°30.9	98°35.3	73°52.4	9°25.4	55°19.3	63°28.9	109°20.5
16	177°10.1	10.0′	28°06.3	-1.7′	54.1′	117°39.2	106°01.8	98°07.7	73°24.9	9°54.9	55°48.8	63°51.8	109°50.1
17	191°39.1	10.0′	28°08.0	-1.5′	54.1′	117°12.2	105°32.6	97°40.1	72°57.5	10°24.4	56°18.4	64°14.8	110°19.6
18	206°08.1	10.0′	**S**28°09.5	-1.4′	54.1′	116°45.1	105°03.5	97°12.6	72°30.0	10°53.9	56°47.9	64°37.9	110°49.2
19	220°37.1	10.0′	28°10.9	-1.3′	54.1′	116°18.1	104°34.3	96°45.0	72°02.6	11°23.4	57°17.4	65°01.0	111°18.7
20	235°06.1	9.9′	28°12.2	-1.1′	54.1′	115°51.0	104°05.2	96°17.4	71°35.1	11°52.9	57°47.0	65°24.1	111°48.3
21	249°35.0	9.9′	28°13.3	-1.0′	54.1′	115°24.0	103°36.0	95°49.8	71°07.7	12°22.4	58°16.5	65°47.3	112°17.8
22	264°03.9	9.9′	28°14.3	-0.9′	54.1′	114°56.9	103°06.9	95°22.2	70°40.3	12°52.0	58°46.1	66°10.5	112°47.4
23	278°32.9	9.9′	28°15.2	-0.7′	54.1′	114°29.9	102°37.7	94°54.6	70°12.9	13°21.5	59°15.6	66°33.8	113°17.0
7th	SD = 14.8′ Mer. pass. 03:46					Sun SD = 16.0′							

h Moon (8th Apr) Lunar Distance (objects with largest hourly LD delta)

Wed	GHA	ν	Dec	d	HP	-Sun	-Saturn	-Mars	-Fomalhaut	+Antares	+Spica	+Arcturus	+Regulus
0	293°01.8	9.9′	**S**28°15.9	-0.6′	54.1′	114°02.8	102°08.5	94°27.1	69°45.5	13°51.0	59°45.2	66°57.1	113°46.5
1	307°30.7	9.9′	28°16.5	-0.5′	54.1′	113°35.8	101°39.4	93°59.5	69°18.1	14°20.6	60°14.7	67°20.5	114°16.1
2	321°59.6	9.9′	28°17.0	-0.3′	54.1′	113°08.7	101°10.2	93°31.9	68°50.7	14°50.1	60°44.3	67°43.9	114°45.7
3	336°28.4	9.9′	28°17.3	-0.2′	54.1′	112°41.6	100°41.0	93°04.3	68°23.4	15°19.7	61°13.8	68°07.3	115°15.2
4	350°57.3	9.9′	28°17.5	-0.0′	54.1′	112°14.5	100°11.9	92°36.7	67°56.0	15°49.2	61°43.4	68°30.8	115°44.8
5	5°26.2	9.9′	28°17.5	0.1′	54.1′	111°47.5	99°42.7	92°09.1	67°28.7	16°18.8	62°12.9	68°54.3	116°14.4
6	19°55.0	9.9′	**S**28°17.4	0.2′	54.1′	111°20.4	99°13.5	91°41.5	67°01.4	16°48.3	62°42.5	69°17.9	116°44.0
7	34°23.9	9.9′	28°17.2	0.4′	54.2′	110°53.3	98°44.3	91°13.9	66°34.1	17°17.9	63°12.1	69°41.5	117°13.6
8	48°52.8	9.9′	28°16.8	0.5′	54.2′	110°26.2	98°15.1	90°46.2	66°06.8	17°47.5	63°41.7	70°05.1	117°43.2
9	63°21.6	9.9′	28°16.3	0.6′	54.2′	109°59.1	97°45.9	90°18.6	65°39.5	18°17.1	64°11.3	70°28.8	118°12.8
10	77°50.5	9.9′	28°15.7	0.8′	54.2′	109°32.0	97°16.7	89°51.0	65°12.2	18°46.7	64°40.8	70°52.5	118°42.4
11	92°19.3	9.9′	28°14.9	0.9′	54.2′	109°04.9	96°47.5	89°23.4	64°44.9	19°16.3	65°10.4	71°16.3	119°12.0
12	106°48.2	9.9′	**S**28°14.0	1.1′	54.2′	108°37.8	96°18.3	88°55.7	64°17.7	19°45.9	65°40.0	71°40.1	119°41.6
13	121°17.1	9.9′	28°12.9	1.2′	54.2′	108°10.7	95°49.1	88°28.1	63°50.4	20°15.5	66°09.7	72°03.9	
14	135°45.9	9.9′	28°11.8	1.3′	54.2′	107°43.5	95°19.8	88°00.4	63°23.2	20°45.1	66°39.3	72°27.8	
15	150°14.8	9.9′	28°10.4	1.5′	54.2′	107°16.4	94°50.6	87°32.8	62°56.0	21°14.7	67°08.9	72°51.7	
16	164°43.7	9.9′	28°09.0	1.6′	54.2′	106°49.3	94°21.4	87°05.1	62°28.8	21°44.4	67°38.5	73°15.6	
17	179°12.6	9.9′	28°07.4	1.7′	54.2′	106°22.1	93°52.1	86°37.4	62°01.6	22°14.0	68°08.2	73°39.5	
18	193°41.5	9.9′	**S**28°05.6	1.9′	54.2′	105°55.0	93°22.8	86°09.7	61°34.4	22°43.7	68°37.8	74°03.5	
19	208°10.4	9.9′	28°03.8	2.0′	54.2′	105°27.8	92°53.6	85°42.0	61°07.3	23°13.3	69°07.5	74°27.6	
20	222°39.3	9.9′	28°01.7	2.1′	54.3′	105°00.6	92°24.3	85°14.3	60°40.1	23°43.0	69°37.1	74°51.6	
21	237°08.2	9.9′	27°59.6	2.3′	54.3′	104°33.4	91°55.0	84°46.6	60°13.0	24°12.7	70°06.8	75°15.7	
22	251°37.1	9.9′	27°57.3	2.4′	54.3′	104°06.2	91°25.7	84°18.9	59°45.9	24°42.4	70°36.5	75°39.8	
23	266°06.1	10.0′	27°54.9	2.6′	54.3′	103°39.0	90°56.4	83°51.2	59°18.8	25°12.1	71°06.2	76°04.0	
8th	SD = 14.8′ Mer. pass. 04:37					Sun SD = 16.0′							

h Moon (9th Apr) Lunar Distance (objects with largest hourly LD delta)

Thu	GHA	ν	Dec	d	HP	-Sun	-Saturn	-Mars	-Fomalhaut	+Antares	+Hadar	+Spica	+Arcturus
0	280°35.0	10.0′	**S**27°52.3	2.7′	54.3′	103°11.8	90°27.1	83°23.4	58°51.7	25°41.8	53°53.9	71°35.9	76°28.2
1	295°04.0	10.0′	27°49.6	2.8′	54.3′	102°44.6	89°57.7	82°55.7	58°24.6	26°11.5	54°12.5	72°05.6	76°52.4
2	309°33.0	10.0′	27°46.8	3.0′	54.3′	102°17.3	89°28.4	82°27.9	57°57.6	26°41.2	54°31.3	72°35.4	77°16.6
3	324°02.0	10.0′	27°43.8	3.1′	54.3′	101°50.1	88°59.0	82°00.1	57°30.5	27°11.0	54°50.2	73°05.1	77°40.9
4	338°31.0	10.0′	27°40.7	3.2′	54.3′	101°22.8	88°29.7	81°32.3	57°03.5	27°40.8	55°09.2	73°34.9	78°05.2
5	353°00.0	10.1′	27°37.5	3.4′	54.4′	100°55.5	88°00.3	81°04.5	56°36.5	28°10.5	55°28.3	74°04.6	78°29.5
6	7°29.1	10.1′	**S**27°34.1	3.5′	54.4′	100°28.2	87°30.9	80°36.7	56°09.6	28°40.3	55°47.5	74°34.4	78°53.9
7	21°58.2	10.1′	27°30.6	3.6′	54.4′	100°00.9	87°01.5	80°08.9	55°42.6	29°10.1	56°06.8	75°04.2	79°18.2
8	36°27.3	10.1′	27°27.0	3.8′	54.4′	99°33.6	86°32.1	79°41.1	55°15.7	29°39.9	56°26.2	75°34.0	79°42.6
9	50°56.4	10.1′	27°23.2	3.9′	54.4′	99°06.3	86°02.6	79°13.2	54°48.7	30°09.8	56°45.8	76°03.8	80°07.1
10	65°25.6	10.2′	27°19.3	4.0′	54.4′	98°38.9	85°33.2	78°45.3	54°21.8	30°39.6	57°05.4	76°33.7	80°31.5
11	79°54.7	10.2′	27°15.3	4.2′	54.4′	98°11.6	85°03.7	78°17.5	53°55.0	31°09.5	57°25.2	77°03.5	80°56.0
12	94°23.9	10.2′	**S**27°11.1	4.3′	54.5′	97°44.2	84°34.2	77°49.6	53°28.1	31°39.3	57°45.0	77°33.4	81°20.5
13	108°53.1	10.2′	27°06.8	4.4′	54.5′	97°16.8	84°04.8	77°21.7	53°01.3	32°09.2	58°05.0	78°03.3	81°45.1
14	123°22.4	10.3′	27°02.4	4.6′	54.5′	96°49.4	83°35.2	76°53.7	52°34.5	32°39.1	58°25.0	78°33.2	82°09.6
15	137°51.7	10.3′	26°57.8	4.7′	54.5′	96°22.0	83°05.7	76°25.8	52°07.7	33°09.1	58°45.2	79°03.1	82°34.2
16	152°20.9	10.3′	26°53.1	4.8′	54.5′	95°54.5	82°36.2	75°57.8	51°41.0	33°39.0	59°05.5	79°33.0	82°58.8
17	166°50.3	10.4′	26°48.2	5.0′	54.5′	95°27.1	82°06.6	75°29.8	51°14.2	34°08.9	59°25.8	80°03.0	83°23.5
18	181°19.6	10.4′	**S**26°43.3	5.1′	54.5′	94°59.6	81°37.1	75°01.9	50°47.5	34°38.9	59°46.2	80°32.9	83°48.2
19	195°49.0	10.4′	26°38.2	5.2′	54.6′	94°32.1	81°07.5	74°33.8	50°20.9	35°08.9	60°06.8	81°02.9	84°12.8
20	210°18.4	10.4′	26°32.9	5.4′	54.6′	94°04.6	80°37.9	74°05.8	49°54.2	35°38.9	60°27.4	81°32.9	84°37.5
21	224°47.9	10.5′	26°27.6	5.5′	54.6′	93°37.1	80°08.2	73°37.8	49°27.6	36°08.9	60°48.1	82°02.9	85°02.3
22	239°17.3	10.5′	26°22.1	5.6′	54.6′	93°09.5	79°38.6	73°09.7	49°01.0	36°39.0	61°08.9	82°33.0	85°27.0
23	253°46.9	10.5′	26°16.5	5.7′	54.6′	92°42.0	79°08.9	72°41.6	48°34.5	37°09.1	61°29.8	83°03.0	85°51.8
9th	SD = 14.8′ Mer. pass. 05:29					Sun SD = 16.0′							

h Moon (10th Apr) Lunar Distance (objects with largest hourly LD delta)

Fri	GHA	ν	Dec	d	HP	-Sun	-Saturn	-Mars	-Fomalhaut	+Antares	+Rigil Kent.	+Spica	+Arcturus
0	268°16.4	10.6′	**S**26°10.7	5.9′	54.7′	92°14.4	78°39.2	72°13.5	48°08.0	37°39.1	57°29.1	83°33.1	86°16.6
1	282°46.0	10.6′	26°04.9	6.0′	54.7′	91°46.8	78°09.5	71°45.4	47°41.5	38°09.2	57°49.9	84°03.2	86°41.4
2	297°15.6	10.6′	25°58.9	6.1′	54.7′	91°19.1	77°39.8	71°17.3	47°15.1	38°39.4	58°10.9	84°33.3	87°06.3
3	311°45.2	10.7′	25°52.7	6.3′	54.7′	90°51.5	77°10.1	70°49.1	46°48.7	39°09.5	58°32.0	85°03.4	87°31.1
4	326°14.9	10.7′	25°46.5	6.4′	54.7′	90°23.8	76°40.3	70°20.9	46°22.3	39°39.7	58°53.2	85°33.6	87°56.0
5	340°44.6	10.7′	25°40.1	6.5′	54.7′	89°56.1	76°10.5	69°52.7	45°56.0	40°09.9	59°14.5	86°03.8	88°20.9
6	355°14.3	10.8′	**S**25°33.6	6.6′	54.8′	89°28.4	75°40.7	69°24.5	45°29.7	40°40.1	59°35.8	86°34.0	88°45.9
7	9°44.1	10.8′	25°26.9	6.8′	54.8′	89°00.7	75°10.9	68°56.2	45°03.5	41°10.3	59°57.3	87°04.2	89°10.8
8	24°13.9	10.9′	25°20.2	6.9′	54.8′	88°33.0	74°41.0	68°28.0	44°37.3	41°40.6	60°18.9	87°34.4	89°35.8
9	38°43.8	10.9′	25°13.3	7.0′	54.8′	88°05.2	74°11.2	67°59.7	44°11.2	42°10.8	60°40.5	88°04.7	90°00.8
10	53°13.7	10.9′	25°06.3	7.1′	54.8′	87°37.4	73°41.3	67°31.4	43°45.1	42°41.1	61°02.2	88°35.0	90°25.8
11	67°43.6	11.0′	24°59.1	7.3′	54.9′	87°09.6	73°11.4	67°03.0	43°19.1	43°11.5	61°24.1	89°05.3	90°50.8
12	82°13.6	11.0′	**S**24°51.9	7.4′	54.9′	86°41.7	72°41.4	66°34.7	42°53.1	43°41.8	61°46.0	89°35.7	91°15.8
13	96°43.6	11.0′	24°44.5	7.5′	54.9′	86°13.8	72°11.5	66°06.3	42°27.2	44°12.2	62°08.0	90°06.0	91°40.9
14	111°13.6	11.1′	24°37.0	7.6′	54.9′	85°46.0	71°41.5	65°37.9	42°01.4	44°42.6	62°30.1	90°36.4	92°06.0
15	125°43.7	11.1′	24°29.4	7.7′	55.0′	85°18.0	71°11.5	65°09.4	41°35.6	45°13.0	62°52.2	91°06.8	92°31.1
16	140°13.8	11.2′	24°21.6	7.9′	55.0′	84°50.1	70°41.4	64°41.0	41°09.8	45°43.4	63°14.5	91°37.3	92°56.2
17	154°44.0	11.2′	24°13.7	8.0′	55.0′	84°22.1	70°11.4	64°12.5	40°44.2	46°13.9	63°36.8	92°07.7	93°21.3
18	169°14.2	11.2′	**S**24°05.8	8.1′	55.0′	83°54.1	69°41.3	63°44.0	40°18.6	46°44.4	63°59.2	92°38.2	93°46.4
19	183°44.4	11.3′	23°57.7	8.2′	55.0′	83°26.1	69°11.2	63°15.5	39°53.1	47°14.9	64°21.7	93°08.7	94°11.6
20	198°14.7	11.3′	23°49.4	8.3′	55.1′	82°58.1	68°41.0	62°46.9	39°27.6	47°45.5	64°44.3	93°39.3	94°36.8
21	212°45.0	11.4′	23°41.1	8.5′	55.1′	82°30.0	68°10.9	62°18.3	39°02.2	48°16.1	65°06.9	94°09.8	95°02.0
22	227°15.4	11.4′	23°32.6	8.6′	55.1′	82°01.9	67°40.7	61°49.7	38°37.0	48°46.7	65°29.7	94°40.4	95°27.2
23	241°45.8	11.4′	23°24.0	8.7′	55.1′	81°33.8	67°10.5	61°21.1	38°11.8	49°17.3	65°52.5	95°11.1	95°52.4
10th	SD = 14.9′ Mer. pass. 06:20					Sun SD = 16.0′							

h Moon (11th Apr) Lunar Distance (objects with largest hourly LD delta)

Sat	GHA	ν	Dec	d	HP	-Sun	-Saturn	-Mars	-Fomalhaut	+Antares	+Rigil Kent.	+Spica	+Arcturus
0	256°16.2	11.5′	**S**23°15.3	8.8′	55.2′	81°05.6	66°40.2	60°52.4	37°46.7	49°48.0	66°15.3	95°41.7	96°17.6
1	270°46.7	11.5′	23°06.5	8.9′	55.2′	80°37.4	66°10.0	60°23.7	37°21.7	50°18.7	66°38.3	96°12.4	96°42.9
2	285°17.2	11.6′	22°57.6	9.0′	55.2′	80°09.2	65°39.7	59°55.0	36°56.8	50°49.4	67°01.3	96°43.1	97°08.2
3	299°47.8	11.6′	22°48.5	9.2′	55.2′	79°41.0	65°09.3	59°26.2	36°32.0	51°20.1	67°24.4	97°13.8	97°33.4
4	314°18.4	11.6′	22°39.4	9.3′	55.3′	79°12.7	64°39.0	58°57.4	36°07.3	51°50.9	67°47.6	97°44.6	97°58.7
5	328°49.0	11.7′	22°30.1	9.4′	55.3′	78°44.4	64°08.6	58°28.6	35°42.7	52°21.7	68°10.8	98°15.4	98°24.0
6	343°19.7	11.7′	**S**22°20.7	9.5′	55.3′	78°16.1	63°38.2	57°59.8	35°18.2	52°52.6	68°34.2	98°46.2	98°49.3
7	357°50.4	11.8′	22°11.2	9.6′	55.4′	77°47.7	63°07.7	57°30.9	34°53.8	53°23.4	68°57.5	99°17.1	99°14.7
8	12°21.2	11.8′	22°01.6	9.7′	55.4′	77°19.3	62°37.3	57°02.0	34°29.6	53°54.3	69°21.0	99°48.0	99°40.0
9	26°52.0	11.8′	21°51.9	9.8′	55.4′	76°50.9	62°06.8	56°33.1	34°05.5	54°25.3	69°44.5	100°18.9	100°05.3
10	41°22.8	11.9′	21°42.1	9.9′	55.4′	76°22.4	61°36.2	56°04.1	33°41.6	54°56.2	70°08.1	100°49.9	100°30.7
11	55°53.7	11.9′	21°32.1	10.1′	55.5′	75°54.0	61°05.7	55°35.1	33°17.8	55°27.2	70°31.8	101°20.8	100°56.1
12	70°24.6	12.0′	**S**21°22.1	10.2′	55.5′	75°25.4	60°35.1	55°06.1	32°54.1	55°58.3	70°55.5	101°51.9	101°21.4
13	84°55.6	12.0′	21°11.9	10.3′	55.5′	74°56.9	60°04.5	54°37.1	32°30.6	56°29.3	71°19.3	102°22.9	101°46.8
14	99°26.6	12.0′	21°01.6	10.4′	55.5′	74°28.3	59°33.8	54°08.0	32°07.3	57°00.4	71°43.1	102°54.0	102°12.2
15	113°57.6	12.1′	20°51.3	10.5′	55.6′	73°59.7	59°03.1	53°38.9	31°44.2	57°31.5	72°07.0	103°25.1	102°37.6
16	128°28.7	12.1′	20°40.8	10.6′	55.6′	73°31.0	58°32.4	53°09.7	31°21.2	58°02.7	72°31.0	103°56.3	103°03.0
17	142°59.8	12.2′	20°30.2	10.7′	55.6′	73°02.4	58°01.6	52°40.5	30°58.4	58°33.9	72°55.0	104°27.4	103°28.4
18	157°31.0	12.2′	**S**20°19.5	10.8′	55.7′	72°33.6	57°30.9	52°11.3	30°35.8	59°05.1	73°19.1	104°58.7	103°53.8
19	172°02.2	12.2′	20°08.7	10.9′	55.7′	72°04.9	57°00.0	51°42.0	30°13.4	59°36.4	73°43.3	105°29.9	104°19.2
20	186°33.4	12.3′	19°57.8	11.0′	55.7′	71°36.1	56°29.2	51°12.8	29°51.3	60°07.7	74°07.5	106°01.2	104°44.6
21	201°04.7	12.3′	19°46.8	11.1′	55.8′	71°07.3	55°58.3	50°43.4	29°29.3	60°39.0	74°31.8	106°32.5	105°10.1
22	215°36.0	12.3′	19°35.7	11.2′	55.8′	70°38.4	55°27.4	50°14.1	29°07.6	61°10.4	74°56.1	107°03.9	105°35.5
23	230°07.3	12.4′	19°24.5	11.3′	55.8′	70°09.6	54°56.4	49°44.7	28°46.2	61°41.8	75°20.5	107°35.3	106°00.9
11th	SD = 15.0′ Mer. pass. 07:09					Sun SD = 16.0′							

h Moon (12th Apr) Lunar Distance (objects with largest hourly LD delta)

Sun	GHA	ν	Dec	d	HP	-Sun	-Saturn	-Mars	-Fomalhaut	+Antares	+Rigil Kent.	+Arcturus	+Spica
0	244°38.7	12.4′	**S**19°13.2	11.4′	55.8′	69°40.6	54°25.5	49°15.3	28°25.0	62°13.2	75°45.0	106°26.3	108°06.7
1	259°10.1	12.4′	19°01.8	11.5′	55.9′	69°11.7	53°54.4	48°45.8	28°04.1	62°44.7	76°09.5	106°51.8	108°38.2
2	273°41.6	12.5′	18°50.3	11.6′	55.9′	68°42.7	53°23.4	48°16.3	27°43.4	63°16.2	76°34.1	107°17.2	109°09.7
3	288°13.0	12.5′	18°38.6	11.7′	55.9′	68°13.7	52°52.3	47°46.8	27°23.1	63°47.8	76°58.7	107°42.6	109°41.2
4	302°44.6	12.5′	18°26.9	11.8′	56.0′	67°44.6	52°21.2	47°17.2	27°03.0	64°19.4	77°23.4	108°08.0	110°12.8
5	317°16.1	12.6′	18°15.1	11.9′	56.0′	67°15.5	51°50.0	46°47.6	26°43.3	64°51.0	77°48.1	108°33.4	110°44.4
6	331°47.7	12.6′	**S**18°03.2	12.0′	56.0′	66°46.3	51°18.8	46°18.0	26°23.9	65°22.7	78°12.9	108°58.9	111°16.0
7	346°19.3	12.6′	17°51.2	12.1′	56.1′	66°17.2	50°47.6	45°48.3	26°04.9	65°54.4	78°37.8	109°24.3	111°47.7
8	0°50.9	12.7′	17°39.1	12.2′	56.1′	65°47.9	50°16.3	45°18.6	25°46.2	66°26.1	79°02.7	109°49.7	112°19.5
9	15°22.6	12.7′	17°27.0	12.3′	56.1′	65°18.7	49°45.0	44°48.9	25°27.9	66°57.9	79°27.6	110°15.1	112°51.2
10	29°54.3	12.7′	17°14.7	12.4′	56.2′	64°49.4	49°13.7	44°19.1	25°10.0	67°29.7	79°52.6	110°40.5	113°23.0
11	44°26.1	12.8′	17°02.3	12.5′	56.2′	64°20.1	48°42.3	43°49.3	24°52.5	68°01.5	80°17.6	111°05.8	113°54.9
12	58°57.8	12.8′	**S**16°49.8	12.6′	56.2′	63°50.7	48°10.9	43°19.4	24°35.4	68°33.4	80°42.7	111°31.2	114°26.8
13	73°29.6	12.8′	16°37.3	12.6′	56.3′	63°21.3	47°39.5	42°49.5	24°18.8	69°05.4	81°07.9	111°56.6	114°58.7
14	88°01.5	12.9′	16°24.6	12.7′	56.3′	62°51.8	47°08.0	42°19.6	24°02.6	69°37.4	81°33.1	112°21.9	115°30.6
15	102°33.3	12.9′	16°11.9	12.8′	56.3′	62°22.4	46°36.5	41°49.6	23°47.0	70°09.4	81°58.3	112°47.2	116°02.6
16	117°05.2	12.9′	15°59.1	12.9′	56.4′	61°52.8	46°04.9	41°19.6	23°31.8	70°41.4	82°23.6	113°12.5	116°34.7
17	131°37.1	12.9′	15°46.2	13.0′	56.4′	61°23.3	45°33.3	40°49.6		71°13.5	82°49.0	113°37.8	117°06.8
18	146°09.1	13.0′	**S**15°33.2	13.1′	56.4′	60°53.7	45°01.7	40°19.5		71°45.7	83°14.4	114°03.1	117°38.9
19	160°41.0	13.0′	15°20.1	13.2′	56.5′	60°24.0	44°30.0	39°49.3		72°17.8	83°39.8	114°28.4	118°11.0
20	175°13.0	13.0′	15°06.9	13.3′	56.5′	59°54.3	43°58.3	39°19.2		72°50.1	84°05.3	114°53.6	118°43.3
21	189°45.0	13.0′	14°53.7	13.3′	56.5′	59°24.6	43°26.6	38°49.0		73°22.3	84°30.8	115°18.8	119°15.5
22	204°17.1	13.1′	14°40.3	13.4′	56.6′	58°54.8	42°54.8	38°18.7		73°54.6	84°56.4	115°44.0	119°47.8
23	218°49.1	13.1′	14°26.9	13.5′	56.6′	58°25.0	42°23.0	37°48.5		74°27.0	85°22.0	116°09.2	
12th	SD = 15.2′ Mer. pass. 07:56					Sun SD = 16.0′ at 0h; 15.9′ at 23h							