

h		Moon (6 th May)				Lunar Distance (objects with largest hourly LD delta)							
Wed	GHA	ν	Dec	d	HP	-Mars	-Saturn	-Fomalhaut	-Altair	+Antares	+Hadar	+Spica	+Arcturus
0	311°08.3	10.1'	S27°55.9	1.8'	54.0'	107°38.8	97°04.8	62°07.2	44°14.6	22°12.7	51°55.7	68°06.9	73°32.1
1	325°37.3	10.1'	27°54.1	1.9'	54.0'	107°11.2	96°35.6	61°40.1	43°55.5	22°42.3	52°13.4	68°36.5	73°56.0
2	340°06.4	10.1'	27°52.2	2.1'	54.0'	106°43.6	96°06.4	61°13.1	43°36.5	23°11.9	52°31.2	69°06.0	74°19.9
3	354°35.5	10.1'	27°50.2	2.2'	54.1'	106°16.0	95°37.2	60°46.1	43°17.6	23°41.4	52°49.2	69°35.6	74°43.9
4	9°04.6	10.1'	27°48.0	2.3'	54.1'	105°48.4	95°08.0	60°19.1	42°59.0	24°11.0	53°07.2	70°05.2	75°07.8
5	23°33.7	10.1'	27°45.7	2.5'	54.1'	105°20.8	94°38.8	59°52.1	42°40.4	24°40.6	53°25.4	70°34.8	75°31.9
6	38°02.8	10.2'	S27°43.2	2.6'	54.1'	104°53.2	94°09.6	59°25.2	42°22.1	25°10.2	53°43.7	71°04.4	75°55.9
7	52°32.0	10.2'	27°40.6	2.7'	54.1'	104°25.6	93°40.4	58°58.2	42°03.9	25°39.8	54°02.2	71°33.9	76°20.0
8	67°01.1	10.2'	27°37.9	2.9'	54.1'	103°58.0	93°11.2	58°31.3	41°45.9	26°09.4	54°20.7	72°03.5	76°44.1
9	81°30.3	10.2'	27°35.1	3.0'	54.1'	103°30.4	92°41.9	58°04.4	41°28.0	26°39.0	54°39.4	72°33.1	77°08.2
10	95°59.6	10.2'	27°32.1	3.1'	54.1'	103°02.8	92°12.7	57°37.6	41°10.4	27°08.6	54°58.2	73°02.8	77°32.3
11	110°28.8	10.3'	27°28.9	3.3'	54.1'	102°35.1	91°43.4	57°10.7	40°52.9	27°38.3	55°17.1	73°32.4	77°56.5
12	124°58.1	10.3'	S27°25.7	3.4'	54.1'	102°07.5	91°14.2	56°43.9	40°35.6	28°07.9	55°36.1	74°02.0	78°20.7
13	139°27.4	10.3'	27°22.3	3.5'	54.1'	101°39.8	90°44.9	56°17.1	40°18.6	28°37.5	55°55.2	74°31.6	78°44.9
14	153°56.7	10.3'	27°18.8	3.6'	54.1'	101°12.2	90°15.7	55°50.3	40°01.7	29°07.2	56°14.4	75°01.3	79°09.1
15	168°26.0	10.4'	27°15.2	3.8'	54.1'	100°44.5	89°46.4	55°23.6	39°45.0	29°36.8	56°33.7	75°30.9	79°33.4
16	182°55.4	10.4'	27°11.4	3.9'	54.2'	100°16.8	89°17.1	54°56.9	39°28.5	30°06.5	56°53.1	76°00.5	79°57.6
17	197°24.8	10.4'	27°07.5	4.0'	54.2'	99°49.2	88°47.8	54°30.2	39°12.2	30°36.2	57°12.7	76°30.2	80°21.9
18	211°54.3	10.5'	S27°03.4	4.2'	54.2'	99°21.5	88°18.5	54°03.5	38°56.2	31°05.8	57°32.3	76°59.9	80°46.2
19	226°23.7	10.5'	26°59.3	4.3'	54.2'	98°53.8	87°49.2	53°36.9	38°40.4	31°35.5	57°52.0	77°29.5	81°10.6
20	240°53.2	10.5'	26°55.0	4.4'	54.2'	98°26.1	87°19.9	53°10.3	38°24.8	32°05.2	58°11.8	77°59.2	81°34.9
21	255°22.8	10.6'	26°50.5	4.6'	54.2'	97°58.3	86°50.6	52°43.7	38°09.4	32°34.9	58°31.7	78°28.9	81°59.3
22	269°52.3	10.6'	26°46.0	4.7'	54.2'	97°30.6	86°21.2	52°17.2	37°54.3	33°04.6	58°51.7	78°58.6	82°23.7
23	284°21.9	10.6'	26°41.3	4.8'	54.2'	97°02.9	85°51.9	51°50.6		33°34.4	59°11.8	79°28.3	82°48.1
6 th	SD = 14.7' Mer. pass. 03:22												

h		Moon (7 th May)				Lunar Distance (objects with largest hourly LD delta)							
Thu	GHA	ν	Dec	d	HP	-Sun	-Mars	-Saturn	-Fomalhaut	+Antares	+Rigel Kent.	+Spica	+Arcturus
0	298°51.6	10.7'	S26°36.5	4.9'	54.2'		96°35.1	85°22.5	51°24.2	34°04.1	55°12.1	79°58.1	83°12.6
1	313°21.2	10.7'	26°31.6	5.1'	54.3'		96°07.4	84°53.2	50°57.7	34°33.8	55°32.1	80°27.8	83°37.0
2	327°50.9	10.7'	26°26.5	5.2'	54.3'		95°39.6	84°23.8	50°31.3	35°03.6	55°52.2	80°57.5	84°01.5
3	342°20.7	10.8'	26°21.3	5.3'	54.3'		95°11.8	83°54.4	50°04.9	35°33.4	56°12.3	81°27.3	84°26.0
4	356°50.4	10.8'	26°16.0	5.4'	54.3'		94°44.1	83°25.0	49°38.6	36°03.1	56°32.6	81°57.1	84°50.5
5	11°20.3	10.9'	26°10.5	5.6'	54.3'	119°48.5	94°16.2	82°55.6	49°12.3	36°32.9	56°53.0	82°26.8	85°15.0
6	25°50.1	10.9'	S26°05.0	5.7'	54.3'	119°21.3	93°48.4	82°26.2	48°46.0	37°02.7	57°13.4	82°56.6	85°39.6
7	40°20.0	10.9'	25°59.3	5.8'	54.3'	118°54.0	93°20.6	81°56.8	48°19.8	37°32.5	57°34.0	83°26.4	86°04.1
8	54°49.9	11.0'	25°53.5	5.9'	54.3'	118°26.7	92°52.8	81°27.3	47°53.6	38°02.4	57°54.7	83°56.2	86°28.7
9	69°19.9	11.0'	25°47.5	6.1'	54.4'	117°59.4	92°24.9	80°57.9	47°27.5	38°32.2	58°15.4	84°26.1	86°53.3
10	83°49.9	11.1'	25°41.5	6.2'	54.4'	117°32.1	91°57.1	80°28.4	47°01.4	39°02.0	58°36.3	84°55.9	87°17.9
11	98°20.0	11.1'	25°35.3	6.3'	54.4'	117°04.8	91°29.2	79°58.9	46°35.4	39°31.9	58°57.2	85°25.8	87°42.5
12	112°50.1	11.1'	S25°29.0	6.4'	54.4'	116°37.5	91°01.3	79°29.4	46°09.4	40°01.8	59°18.2	85°55.6	88°07.1
13	127°20.2	11.2'	25°22.5	6.5'	54.4'	116°10.1	90°33.4	78°59.9	45°43.4	40°31.7	59°39.3	86°25.5	88°31.8
14	141°50.4	11.2'	25°16.0	6.7'	54.4'	115°42.7	90°05.5	78°30.4	45°17.5	41°01.6	60°00.5	86°55.4	88°56.4
15	156°20.6	11.3'	25°09.3	6.8'	54.4'	115°15.4	89°37.5	78°00.9	44°51.7	41°31.5	60°21.8	87°25.3	89°21.1
16	170°50.9	11.3'	25°02.5	6.9'	54.5'	114°48.0	89°09.6	77°31.3	44°25.9	42°01.4	60°43.2	87°55.2	89°45.8
17	185°21.2	11.4'	24°55.6	7.0'	54.5'	114°20.5	88°41.6	77°01.8	44°00.1	42°31.4	61°04.6	88°25.2	90°10.5
18	199°51.5	11.4'	S24°48.6	7.1'	54.5'	113°53.1	88°13.7	76°32.2	43°34.5	43°01.4	61°26.2	88°55.1	90°35.2
19	214°21.9	11.4'	24°41.4	7.3'	54.5'	113°25.7	87°45.7	76°02.6	43°08.9	43°31.3	61°47.8	89°25.1	90°59.9
20	228°52.4	11.5'	24°34.2	7.4'	54.5'	112°58.2	87°17.7	75°33.0	42°43.3	44°01.3	62°09.5	89°55.1	91°24.7
21	243°22.9	11.5'	24°26.8	7.5'	54.5'	112°30.7	86°49.6	75°03.3	42°17.8	44°31.4	62°31.2	90°25.1	91°49.4
22	257°53.4	11.6'	24°19.3	7.6'	54.6'	112°03.2	86°21.6	74°33.7	41°52.4	45°01.4	62°53.1	90°55.1	92°14.2
23	272°24.0	11.6'	24°11.7	7.7'	54.6'	111°35.7	85°53.5	74°04.0	41°27.0	45°31.4	63°15.0	91°25.2	92°39.0
7 th	SD = 14.8' Mer. pass. 04:13					Sun SD = 15.8'							

h		Moon (8 th May)				Lunar Distance (objects with largest hourly LD delta)							
Fri	GHA	ν	Dec	d	HP	-Sun	-Mars	-Saturn	-Fomalhaut	+Antares	+Rigel Kent.	+Spica	+Arcturus
0	286°54.6	11.7'	S24°04.0	7.8'	54.6'	111°08.2	85°25.4	73°34.4	41°01.7	46°01.5	63°37.0	91°55.2	93°03.7
1	301°25.2	11.7'	23°56.1	8.0'	54.6'	110°40.6	84°57.3	73°04.7	40°36.5	46°31.6	63°59.0	92°25.3	93°28.5
2	315°56.0	11.8'	23°48.2	8.1'	54.6'	110°13.0	84°29.2	72°35.0	40°11.4	47°01.7	64°21.2	92°55.4	93°53.3
3	330°26.7	11.8'	23°40.1	8.2'	54.6'	109°45.5	84°01.1	72°05.2	39°46.3	47°31.8	64°43.4	93°25.5	94°18.2
4	344°57.5	11.8'	23°31.9	8.3'	54.7'	109°17.8	83°33.0	71°35.5	39°21.4	48°02.0	65°05.7	93°55.6	94°43.0
5	359°28.4	11.9'	23°23.6	8.4'	54.7'	108°50.2	83°04.8	71°05.7	38°56.5	48°32.1	65°28.0	94°25.8	95°07.8
6	13°59.3	11.9'	S23°15.2	8.5'	54.7'	108°22.6	82°36.6	70°35.9	38°31.7	49°02.3	65°50.5	94°55.9	95°32.6
7	28°30.2	12.0'	23°06.7	8.6'	54.7'	107°54.9	82°08.4	70°06.1	38°07.0	49°32.5	66°13.0	95°26.1	95°57.5
8	43°01.2	12.0'	22°58.1	8.7'	54.7'	107°27.2	81°40.2	69°36.3	37°42.4	50°02.7	66°35.5	95°56.3	96°22.3
9	57°32.2	12.1'	22°49.3	8.8'	54.8'	106°59.5	81°11.9	69°06.5	37°17.9	50°33.0	66°58.1	96°26.6	96°47.2
10	72°03.3	12.1'	22°40.5	9.0'	54.8'	106°31.7	80°43.6	68°36.6	36°53.5	51°03.2	67°20.8	96°56.8	97°12.1
11	86°34.4	12.2'	22°31.5	9.1'	54.8'	106°04.0	80°15.3	68°06.7	36°29.1	51°33.5	67°43.6	97°27.1	97°36.9
12	101°05.6	12.2'	S22°22.5	9.2'	54.8'	105°36.2	79°47.0	67°36.8	36°05.0	52°03.8	68°06.4	97°57.4	98°01.8
13	115°36.8	12.3'	22°13.3	9.3'	54.8'	105°08.4	79°18.7	67°06.9	35°41.0	52°34.2	68°29.3	98°27.7	98°26.7
14	130°08.1	12.3'	22°04.0	9.4'	54.9'	104°40.7	78°50.3	66°36.9	35°17.0	53°04.5	68°52.2	98°58.1	98°51.6
15	144°39.4	12.4'	21°54.7	9.5'	54.9'	104°12.6	78°22.0	66°07.0	34°53.2	53°34.9	69°15.2	99°28.4	99°16.5
16	159°10.7	12.4'	21°45.2	9.6'	54.9'	103°44.9	77°53.6	65°37.0	34°29.5	54°05.3	69°38.3	99°58.8	99°41.4
17	173°42.1	12.4'	21°35.6	9.7'	54.9'	103°17.0	77°25.1	65°06.9	34°06.0	54°35.7	70°01.4	100°29.2	100°06.3
18	188°13.6	12.5'	S21°25.9	9.8'	55.0'	102°49.1	76°56.7	64°36.9	33°42.6	55°06.2	70°24.6	100°59.6	100°31.2
19	202°45.0	12.5'	21°16.1	9.9'	55.0'	102°21.1	76°28.2	64°06.9	33°19.3	55°36.6	70°47.9	101°30.1	100°56.1
20	217°16.6	12.6'	21°06.2	10.0'	55.0'	101°53.2	75°59.7	63°36.8	32°56.2	56°07.1	71°11.2	102°00.6	101°21.0
21	231°48.1	12.6'	20°56.2	10.1'	55.0'	101°25.2	75°31.2	63°06.7	32°33.3	56°37.6	71°34.5	102°31.1	101°46.0
22	246°19.8	12.7'	20°46.1	10.2'	55.1'	100°57.1	75°02.7	62°36.5	32°10.5	57°08.2	71°58.0	103°01.6	102°10.9
23	260°51.4	12.7'	20°35.9	10.3'	55.1'	100°29.1	74°34.1	62°06.4	31°47.9	57°38.7	72°21.4	103°32.2	102°35.8
8 th	SD = 14.9' Mer												

Moon (9 th May)						Lunar Distance (objects with largest hourly LD delta)								
Sat	GHA	ν	Dec	d	HP	-Sun	-Mars	-Saturn	-Fomalhaut	+Antares	+Rigil Kent.	+Arcturus	+Spica	
0	275°23.1	12.7'	S20°25.6	10.4'	55.1'	100°01.0	74°05.5	61°36.2	31°25.5	58°09.3	72°45.0	103°00.7	104°02.8	
1	289°54.9	12.8'	20°15.2	10.5'	55.1'	99°32.9	73°36.9	61°06.0	31°03.3	58°40.0	73°08.5	103°25.6	104°33.4	
2	304°26.7	12.8'	20°04.7	10.6'	55.2'	99°04.8	73°08.2	60°35.8	30°41.3	59°10.6	73°32.2	103°50.5	105°04.0	
3	318°58.5	12.9'	19°54.1	10.7'	55.2'	98°36.7	72°39.6	60°05.5	30°19.5	59°41.3	73°55.9	104°15.5	105°34.7	
4	333°30.4	12.9'	19°43.4	10.8'	55.2'	98°08.5	72°10.9	59°35.2	29°57.9	60°12.0	74°19.6	104°40.4	106°05.3	
5	348°02.3	13.0'	19°32.7	10.9'	55.2'	97°40.3	71°42.1	59°04.9	29°36.5	60°42.7	74°43.4	105°05.3	106°36.1	
6	2°34.2	13.0'	S19°21.8	11.0'	55.3'	97°12.1	71°13.4	58°34.6	29°15.4	61°13.5	75°07.3	105°30.2	107°06.8	
7	17°06.2	13.0'	19°10.8	11.1'	55.3'	96°43.8	70°44.6	58°04.3	28°54.5	61°44.3	75°31.2	105°55.1	107°37.6	
8	31°38.2	13.1'	18°59.7	11.2'	55.3'	96°15.5	70°15.8	57°33.9	28°33.8	62°15.1	75°55.1	106°20.0	108°08.4	
9	46°10.3	13.1'	18°48.6	11.3'	55.3'	95°47.2	69°47.0	57°03.5	28°13.4	62°45.9	76°19.1	106°44.9	108°39.2	
10	60°42.4	13.1'	18°37.3	11.3'	55.4'	95°18.8	69°18.1	56°33.0	27°53.3	63°16.8	76°43.2	107°09.8	109°10.1	
11	75°14.6	13.2'	18°26.0	11.4'	55.4'	94°50.5	68°49.2	56°02.6	27°33.5	63°47.7	77°07.3	107°34.7	109°40.9	
12	89°46.8	13.2'	S18°14.5	11.5'	55.4'	94°22.1	68°20.3	55°32.1	27°14.0	64°18.6	77°31.4	107°59.6	110°11.9	
13	104°19.0	13.3'	18°03.0	11.6'	55.4'	93°53.6	67°51.3	55°01.5	26°54.8	64°49.6	77°55.6	108°24.4	110°42.8	
14	118°51.2	13.3'	17°51.4	11.7'	55.5'	93°25.2	67°22.4	54°31.0	26°35.9	65°20.6	78°19.8	108°49.3	111°13.8	
15	133°23.5	13.3'	17°39.7	11.8'	55.5'	92°56.7	66°53.3	54°00.4	26°17.3	65°51.6	78°44.1	109°14.2	111°44.8	
16	147°55.9	13.4'	17°27.9	11.9'	55.5'	92°28.1	66°24.3	53°29.8	25°59.1	66°22.7	79°08.5	109°39.0	112°15.8	
17	162°28.2	13.4'	17°16.0	12.0'	55.6'	91°59.6	65°55.2	52°59.2	25°41.3	66°53.7	79°32.8	110°03.8	112°46.9	
18	177°00.6	13.4'	S17°04.0	12.1'	55.6'	91°31.0	65°26.1	52°28.5	25°23.8	67°24.9	79°57.3	110°28.7	113°18.0	
19	191°33.1	13.5'	16°52.0	12.1'	55.6'	91°02.4	64°57.0	51°57.8	25°06.7	67°56.0	80°21.7	110°53.5	113°49.2	
20	206°05.5	13.5'	16°39.8	12.2'	55.6'	90°33.7	64°27.8	51°27.1	24°50.1	68°27.2	80°46.2	111°18.3	114°20.3	
21	220°38.0	13.5'	16°27.6	12.3'	55.7'	90°05.0	63°58.6	50°56.3	24°33.8	68°58.4	81°10.8	111°43.1	114°51.5	
22	235°10.5	13.6'	16°15.3	12.4'	55.7'	89°36.3	63°29.4	50°25.5	24°18.0	69°29.7	81°35.4	112°07.8	115°22.8	
23	249°43.1	13.6'	16°02.9	12.5'	55.7'	89°07.5	63°00.1	49°54.7	24°02.7	70°00.9	82°00.0	112°32.6	115°54.0	
9 th	SD = 15.0'					Mer. pass. 05:49		Sun SD = 15.8'						

Moon (10 th May)						Lunar Distance (objects with largest hourly LD delta)								
Sun	GHA	ν	Dec	d	HP	-Sun	-Mars	-Saturn	+Antares	+Rigil Kent.	+Hadar	+Arcturus	+Spica	
0	264°15.7	13.6'	S15°50.4	12.6'	55.8'	88°38.7	62°30.8	49°23.9	70°32.3	82°24.7	86°36.1	112°57.3	116°25.3	
1	278°48.3	13.6'	15°37.9	12.6'	55.8'	88°09.9	62°01.5	48°53.0	71°03.6	82°49.5	87°00.4	113°22.0	116°56.7	
2	293°21.0	13.7'	15°25.2	12.7'	55.8'	87°41.0	61°32.1	48°22.1	71°35.0	83°14.2	87°24.7	113°46.7	117°28.0	
3	307°53.6	13.7'	15°12.5	12.8'	55.9'	87°12.2	61°02.7	47°51.2	72°06.4	83°39.0	87°49.1	114°11.4	117°59.4	
4	322°26.3	13.7'	14°59.7	12.9'	55.9'	86°43.2	60°33.3	47°20.2	72°37.9	84°03.9	88°13.5	114°36.0	118°30.9	
5	336°59.0	13.7'	14°46.8	13.0'	55.9'	86°14.3	60°03.8	46°49.2	73°09.4	84°28.8	88°37.9	115°00.7	119°02.4	
6	351°31.8	13.8'	S14°33.9	13.0'	55.9'	85°45.3	59°34.4	46°18.1	73°40.9	84°53.7	89°02.3	115°25.3	119°33.9	
7	6°04.6	13.8'	14°20.8	13.1'	56.0'	85°16.2	59°04.8	45°47.1	74°12.5	85°18.7	89°26.8	115°49.8		
8	20°37.4	13.8'	14°07.7	13.2'	56.0'	84°47.1	58°35.2	45°16.0	74°44.1	85°43.7	89°51.3	116°14.4		
9	35°10.2	13.8'	13°54.5	13.3'	56.0'	84°18.0	58°05.6	44°44.8	75°15.7	86°08.7	90°15.8	116°38.9		
10	49°43.0	13.9'	13°41.3	13.3'	56.1'	83°48.9	57°36.0	44°13.7	75°47.4	86°33.8	90°40.4	117°03.4		
11	64°15.9	13.9'	13°27.9	13.4'	56.1'	83°19.7	57°06.3	43°42.5	76°19.1	86°58.9	91°04.9	117°27.9		
12	78°48.8	13.9'	S13°14.5	13.5'	56.1'	82°50.5	56°36.6	43°11.3	76°50.9	87°24.0	91°29.5	117°52.3		
13	93°21.7	13.9'	13°01.0	13.6'	56.2'	82°21.2	56°06.9	42°40.0	77°22.7	87°49.2	91°54.2	118°16.7		
14	107°54.6	13.9'	12°47.5	13.6'	56.2'	81°51.9	55°37.1	42°08.7	77°54.5	88°14.4	92°18.8	118°41.1		
15	122°27.5	14.0'	12°33.9	13.7'	56.2'	81°22.6	55°07.3	41°37.4	78°26.4	88°39.7	92°43.5	119°05.4		
16	137°00.5	14.0'	12°20.2	13.8'	56.3'	80°53.2	54°37.4	41°06.0	78°58.3	89°05.0	93°08.2	119°29.7		
17	151°33.4	14.0'	12°06.4	13.8'	56.3'	80°23.8	54°07.5	40°34.6	79°30.2	89°30.3	93°33.0	119°53.9		
18	166°06.4	14.0'	S11°52.6	13.9'	56.3'	79°54.3	53°37.6	40°03.2	80°02.2	89°55.7	93°57.7			
19	180°39.4	14.0'	11°38.7	14.0'	56.4'	79°24.9	53°07.6	39°31.7	80°34.2	90°21.0	94°22.5			
20	195°12.4	14.0'	11°24.7	14.0'	56.4'	78°55.3	52°37.6	39°00.2	81°06.3	90°46.5	94°47.3			
21	209°45.4	14.0'	11°10.6	14.1'	56.5'	78°25.7	52°07.5	38°28.7	81°38.4	91°11.9	95°12.2			
22	224°18.4	14.0'	10°56.5	14.2'	56.5'	77°56.1	51°37.4	37°57.1	82°10.6	91°37.4	95°37.0			
23	238°51.5	14.0'	10°42.4	14.2'	56.5'	77°26.5	51°07.3	37°25.5	82°42.7	92°02.9	96°01.9			
10 th	SD = 15.2'					Mer. pass. 06:35		Sun SD = 15.8'						

Moon (11 th May)						Lunar Distance (objects with largest hourly LD delta)								
Mon	GHA	ν	Dec	d	HP	-Polaris	-Sun	-Mars	-Saturn	+Altair	+Antares	+Rigil Kent.	+Hadar	
0	253°24.5	14.0'	S10°28.1	14.3'	56.6'		76°56.8	50°37.2	36°53.9	41°56.5	83°15.0	92°28.4	96°26.7	
1	267°57.6	14.1'	10°13.8	14.4'	56.6'		76°27.0	50°07.0	36°22.3	42°16.3	83°47.2	92°54.0	96°51.7	
2	282°30.6	14.1'	09°59.5	14.4'	56.6'		75°57.3	49°36.7	35°50.6	42°36.3	84°19.6	93°19.6	97°16.6	
3	297°03.7	14.1'	09°45.1	14.5'	56.7'		75°27.5	49°06.4	35°18.8	42°56.5	84°51.9	93°45.2	97°41.5	
4	311°36.8	14.1'	09°30.6	14.5'	56.7'		74°57.6	48°36.1	34°47.1	43°16.9	85°24.3	94°10.8	98°06.5	
5	326°09.8	14.1'	09°16.0	14.6'	56.7'		74°27.7	48°05.7	34°15.3	43°37.6	85°56.8	94°36.5	98°31.4	
6	340°42.9	14.1'	S09°01.4	14.7'	56.8'		73°57.7	47°35.3	33°43.5	43°58.5	86°29.3	95°02.2	98°56.4	
7	355°16.0	14.1'	08°46.8	14.7'	56.8'		73°27.8	47°04.9	33°11.6	44°19.6	87°01.8	95°27.9	99°21.4	
8	9°49.0	14.1'	08°32.1	14.8'	56.8'	98°17.2	72°57.7	46°34.4	32°39.7	44°40.9	87°34.4	95°53.6	99°46.4	
9	24°22.1	14.1'	08°17.3	14.8'	56.9'	98°02.1	72°27.7	46°03.9	32°07.8	45°02.4	88°07.0	96°19.4	100°11.4	
10	38°55.2	14.1'	08°02.5	14.9'	56.9'	97°47.0	71°57.5	45°33.3	31°35.9	45°24.2	88°39.6	96°45.2	100°36.5	
11	53°28.2	14.1'	07°47.6	14.9'	57.0'	97°31.8	71°27.4	45°02.7	31°03.9	45°46.1	89°12.3	97°11.0	101°01.5	
12	68°01.3	14.0'	S07°32.6	15.0'	57.0'	97°16.6	70°57.2	44°32.1	30°31.9	46°08.2	89°45.1	97°36.8	101°26.6	
13	82°34.3	14.0'	07°17.6	15.0'	57.0'	97°01.3	70°26.9	44°01.4	29°59.9	46°30.5	90°17.9	98°02.7	101°51.6	
14	97°07.4	14.0'	07°02.6	15.1'	57.1'	96°46.0	69°56.6	43°30.7	29°27.8	46°53.0	90°50.7	98°28.5	102°16.7	
15	111°40.4	14.0'	06°47.5	15.1'	57.1'	96°30.6	69°26.3	42°59.9	28°55.7	47°15.7	91°23.6	98°54.4	102°41.8	
16	126°13.4	14.0'	06°32.4	15.2'	57.1'	96°15.2	68°55.9	42°29.1	28°23.6	47°38.6	91°56.6	99°20.3	103°06.8	
17	140°46.4	14.0'	06°17.2	15.2'	57.2'	95°59.7	68°25.5	41°58.2	27°51.5	48°01.6	92°29.5	99°46.2	103°31.9	
18	155°19.4	14.0'	S06°01.9	15.3'	57.2'	95°44.2	67°55.0	41°27.4	27°19.3	48°24.9	93°02.6	100°12.2	103°57.0	
19	169°52.4	14.0'	05°46.6	15.3'	57.3'	95°28.6	67°24.5	40°56.4	26°47.1	48°48.3	93°35.6	100°38.1	104°22.1	
20	184°25.4	14.0'	05°31.3	15.4'	57.3'	95°13.0	66°53.9	40°25.5	26°14.9	49°11.8	94°08.7	101°04.1	104°47.2	
21	198°58.3	13.9'	05°15.9	15.4'	57.3'	94°57.3	66°23.4	39°54.4	25°42.7	49°35.6	94°41.9	101°30.0	105°12.3	
22	213°31.3	13.9'	05°00.5	15.5'	57.4'	94°41.6	65°52.7	39°23.4	25°10.4	49°59.5	95°15.1	101°56.0	105°37.3	
23	228°04.2	13.9'	04°45.0	15.5'	57.4'	94°25.9	65°22.0	38°52.3	24°38.2	50°23.6	95°48.4	102°22.0	106°02.4	
11 th	SD = 15.4'					Mer. pass. 07:20		Sun SD = 15.8'						

h		Moon (12 th May)					Lunar Distance (objects with largest hourly LD delta)						
Tue	GHA	ν	Dec	d	HP	-Polaris	-Sun	-Mars	-Saturn	+Fomalhaut	+Altair	+Antares	+Rigel Kent.
0	242°37.1	13.9'	S04°29.5	15.6'	57.5'	94°10.1	64°51.2	38°21.2	24°05.9	25°05.5	50°47.8	96°21.7	102°48.0
1	257°10.0	13.9'	04°13.9	15.6'	57.5'	93°54.2	64°20.5	37°50.0	23°33.6	25°23.7	51°12.2	96°55.0	103°14.0
2	271°42.8	13.8'	03°58.3	15.6'	57.5'	93°38.4	63°49.6	37°18.8	23°01.3	25°42.5	51°36.7	97°28.4	103°40.0
3	286°15.6	13.8'	03°42.7	15.7'	57.6'	93°22.5	63°18.7	36°47.5	22°29.0	26°01.7	52°01.4	98°01.9	104°06.0
4	300°48.4	13.8'	03°27.0	15.7'	57.6'	93°06.5	62°47.8	36°16.2	21°56.7	26°21.4	52°26.3	98°35.3	104°32.1
5	315°21.2	13.8'	03°11.3	15.7'	57.7'	92°50.5	62°16.8	35°44.9	21°24.4	26°41.6	52°51.3	99°08.9	104°58.1
6	329°54.0	13.7'	S02°55.6	15.8'	57.7'	92°34.5	61°45.8	35°13.5	20°52.1	27°02.2	53°16.4	99°42.5	105°24.1
7	344°26.7	13.7'	02°39.8	15.8'	57.7'	92°18.5	61°14.8	34°42.1	20°19.8	27°23.2	53°41.7	100°16.1	105°50.2
8	358°59.4	13.7'	02°24.0	15.9'	57.8'	92°02.4	60°43.7	34°10.6	19°47.5	27°44.6	54°07.1	100°49.8	106°16.2
9	13°32.1	13.6'	02°08.1	15.9'	57.8'	91°46.3	60°12.5	33°39.2	19°15.2	28°06.5	54°32.7	101°23.5	106°42.2
10	28°04.7	13.6'	01°52.2	15.9'	57.9'	91°30.1	59°41.3	33°07.6	18°42.9	28°28.7	54°58.4	101°57.3	107°08.2
11	42°37.3	13.6'	01°36.3	15.9'	57.9'	91°13.9	59°10.0	32°36.1	18°10.7	28°51.3	55°24.2	102°31.1	107°34.3
12	57°09.8	13.5'	S01°20.4	16.0'	57.9'	90°57.7	58°38.7	32°04.5	17°38.5	29°14.3	55°50.2	103°05.0	108°00.3
13	71°42.4	13.5'	01°04.4	16.0'	58.0'	90°41.5	58°07.4	31°32.8	17°06.3	29°37.6	56°16.3	103°39.0	108°26.3
14	86°14.9	13.4'	00°48.4	16.0'	58.0'	90°25.2	57°36.0	31°01.1	16°34.2	30°01.3	56°42.5	104°12.9	108°52.3
15	100°47.3	13.4'	00°32.4	16.1'	58.1'	90°09.0	57°04.6	30°29.4	16°02.1	30°25.3	57°08.9	104°47.0	109°18.3
16	115°19.7	13.4'	00°16.3	16.1'	58.1'	89°52.6	56°33.1	29°57.7	15°30.1	30°49.6	57°35.4	105°21.0	109°44.3
17	129°52.1	13.3'	S00°00.2	16.1'	58.1'	89°36.3	56°01.5	29°25.9	14°58.3	31°14.2	58°02.0	105°55.2	110°10.2
18	144°24.4	13.3'	N00°15.9	16.1'	58.2'	89°20.0	55°30.0	28°54.1	14°26.5	31°39.1	58°28.7	106°29.3	110°36.2
19	158°56.7	13.2'	00°32.0	16.1'	58.2'	89°03.6	54°58.3	28°22.2	13°54.8	32°04.3	58°55.5	107°03.6	111°02.1
20	173°28.9	13.2'	00°48.1	16.2'	58.2'	88°47.2	54°26.7	27°50.3	13°23.2	32°29.8	59°22.5	107°37.8	111°28.0
21	188°01.1	13.1'	01°04.3	16.2'	58.3'	88°30.8	53°55.0	27°18.4	12°51.8	32°55.6	59°49.6	108°12.1	111°53.9
22	202°33.2	13.1'	01°20.5	16.2'	58.3'	88°14.4	53°23.2	26°46.5	12°20.6	33°21.6	60°16.8	108°46.5	112°19.8
23	217°05.3	13.0'	01°36.7	16.2'	58.4'	87°57.9	52°51.4	26°14.5	11°49.7	33°47.9	60°44.1	109°20.9	112°45.6
12 th	SD = 15.7' Mer. pass. 08:04					Sun SD = 15.8'							

h		Moon (13 th May)					Lunar Distance (objects with largest hourly LD delta)						
Wed	GHA	ν	Dec	d	HP	-Polaris	-Sun	-Mars	-Saturn	+Fomalhaut	+Altair	+Antares	+Rigel Kent.
0	231°37.3	13.0'	N01°52.9	16.2'	58.4'	87°41.5	52°19.5	25°42.5	11°19.0	34°14.5	61°11.5	109°55.4	113°11.4
1	246°09.3	12.9'	02°09.1	16.2'	58.4'	87°25.0	51°47.6	25°10.5	10°48.5	34°41.3	61°39.0	110°29.9	113°37.2
2	260°41.2	12.9'	02°25.4	16.3'	58.5'	87°08.5	51°15.7	24°38.4	10°18.5	35°08.3	62°06.6	111°04.5	114°03.0
3	275°13.1	12.8'	02°41.6	16.3'	58.5'	86°52.0	50°43.7	24°06.4	9°48.8	35°35.5	62°34.4	111°39.1	114°28.7
4	289°44.9	12.7'	02°57.9	16.3'	58.6'	86°35.5	50°11.6	23°34.3	9°19.7	36°03.0	63°02.2	112°13.8	114°54.4
5	304°16.6	12.7'	03°14.1	16.3'	58.6'	86°19.0	49°39.5	23°02.2	8°51.1	36°30.7	63°30.2	112°48.5	115°20.1
6	318°48.3	12.6'	N03°30.4	16.3'	58.6'	86°02.5	49°07.4	22°30.0	8°23.2	36°58.6	63°58.2	113°23.3	115°45.7
7	333°20.0	12.6'	03°46.7	16.3'	58.7'	85°46.0	48°35.2	21°57.9	7°56.2	37°26.7	64°26.4	113°58.1	116°11.2
8	347°51.5	12.5'	04°03.0	16.3'	58.7'	85°29.5	48°03.0	21°25.8		37°55.0	64°54.6	114°32.9	116°36.8
9	2°23.0	12.4'	04°19.3	16.3'	58.8'	85°13.0	47°30.7	20°53.6		38°23.5	65°23.0	115°07.8	117°02.2
10	16°54.5	12.4'	04°35.6	16.3'	58.8'	84°56.4	46°58.4	20°21.4		38°52.2	65°51.4	115°42.8	117°27.7
11	31°25.8	12.3'	04°51.9	16.3'	58.8'	84°39.9	46°26.0	19°49.3		39°21.0	66°19.9	116°17.8	117°53.1
12	45°57.1	12.2'	N05°08.2	16.3'	58.9'	84°23.4	45°53.6	19°17.1		39°50.1	66°48.6	116°52.9	118°18.4
13	60°28.4	12.2'	05°24.4	16.3'	58.9'	84°06.9	45°21.2	18°45.0		40°19.3	67°17.3	117°28.0	118°43.7
14	74°59.5	12.1'	05°40.7	16.3'	59.0'	83°50.4	44°48.7	18°12.8		40°48.7	67°46.1	118°03.2	119°08.9
15	89°30.6	12.0'	05°57.0	16.3'	59.0'	83°33.9	44°16.1	17°40.7		41°18.3	68°15.0	118°38.4	119°34.0
16	104°01.6	11.9'	06°13.3	16.3'	59.0'	83°17.4	43°43.6	17°08.6		41°48.0	68°43.9	119°13.6	119°59.1
17	118°32.5	11.9'	06°29.5	16.3'	59.1'	83°00.9	43°10.9	16°36.6		42°17.8	69°13.0	119°48.9	
18	133°03.4	11.8'	N06°45.8	16.2'	59.1'	82°44.5	42°38.3	16°04.6		42°47.9	69°42.2		
19	147°34.2	11.7'	07°02.0	16.2'	59.1'	82°28.0	42°05.6	15°32.6		43°18.0	70°11.4		
20	162°04.9	11.6'	07°18.3	16.2'	59.2'	82°11.6	41°32.8	15°00.7		43°48.4	70°40.7		
21	176°35.5	11.5'	07°34.5	16.2'	59.2'	81°55.2	41°00.0	14°28.9		44°18.8	71°10.1		
22	191°06.0	11.4'	07°50.7	16.2'	59.3'	81°38.8	40°27.2	13°57.2		44°49.4	71°39.6		
23	205°36.5	11.4'	08°06.8	16.2'	59.3'	81°22.4		13°25.6		45°20.2	72°09.1		
13 th	SD = 15.9' Mer. pass. 08:50					Sun SD = 15.8'							

h		Moon (14 th May)					Lunar Distance (objects with largest hourly LD delta)						
Thu	GHA	ν	Dec	d	HP	-Polaris	-Mars	+Saturn	+Fomalhaut	+Altair	+Vega		
0	220°06.8	11.3'	N08°23.0	16.1'	59.3'	81°06.0	12°54.1		45°51.0	72°38.7			
1	234°37.1	11.2'	08°39.1	16.1'	59.4'	80°49.7	12°22.8		46°22.0	73°08.5			
2	249°07.3	11.1'	08°55.2	16.1'	59.4'	80°33.4	11°51.6		46°53.1	73°38.2			
3	263°37.4	11.0'	09°11.3	16.1'	59.4'	80°17.1	11°20.7		47°24.4	74°08.1			
4	278°07.4	10.9'	09°27.4	16.0'	59.5'	80°00.9	10°50.0		47°55.8	74°38.0			
5	292°37.3	10.8'	09°43.4	16.0'	59.5'	79°44.7	10°19.5		48°27.2	75°08.0			
6	307°07.1	10.7'	N09°59.4	16.0'	59.6'	79°28.5	9°49.5	8°55.1	48°58.8	75°38.0			
7	321°36.9	10.6'	10°15.3	15.9'	59.6'	79°12.4	9°19.8	9°24.8	49°30.6	76°08.2			
8	336°06.5	10.5'	10°31.3	15.9'	59.6'	78°56.3	8°50.7	9°55.2	50°02.4	76°38.4			
9	350°36.0	10.4'	10°47.1	15.8'	59.7'	78°40.2	8°22.1	10°26.2	50°34.3	77°08.6			
10	5°05.5	10.3'	11°03.0	15.8'	59.7'	78°24.2	7°54.2	10°57.8	51°06.4	77°38.9	88°55.3		
11	19°34.8	10.2'	11°18.8	15.8'	59.7'	78°08.2	7°27.1	11°29.7	51°38.5	78°09.3	89°10.3		
12	34°04.0	10.1'	N11°34.6	15.7'	59.8'	77°52.2		12°02.1	52°10.8	78°39.7	89°25.4		
13	48°33.1	10.0'	11°50.3	15.7'	59.8'	77°36.4		12°34.9	52°43.1	79°10.2	89°40.5		
14	63°02.2	9.9'	12°06.0	15.6'	59.8'	77°20.5		13°07.9	53°15.6	79°40.8	89°55.6		
15	77°31.1	9.8'	12°21.6	15.6'	59.9'	77°04.7		13°41.3	53°48.1	80°11.4	90°10.7		
16	91°59.9	9.7'	12°37.2	15.5'	59.9'	76°49.0		14°14.9	54°20.7	80°42.1	90°25.9		
17	106°28.6	9.6'	12°52.7	15.5'	59.9'	76°33.3		14°48.7	54°53.4	81°12.8	90°41.0		
18	120°57.2	9.5'	N13°08.1	15.4'	60.0'	76°17.7		15°22.8	55°26.3	81°43.6	90°56.2		
19	135°25.7	9.4'	13°23.5	15.4'	60.0'	76°02.1		15°57.0	55°59.2	82°14.4	91°11.4		
20	149°54.1	9.3'	13°38.9	15.3'	60.0'	75°46.6		16°31.4	56°32.2	82°45.3	91°26.6		
21	164°22.3	9.1'	13°54.2	15.2'	60.1'	75°31.2		17°06.0	57°05.2	83°16.2	91°41.8		
22	178°50.5	9.0'	14°09.4	15.2'	60.1'	75°15.8		17°40.7	57°38.4	83°47.2	91°57.0		
23	193°18.5	8.9'	14°24.6	15.1'	60.1'	75°00.5		18°15.6	58°11.6	84°18.2	92°12.3		
14 th	SD = 16.2' Mer. pass. 09:39												

Moon (15 th May)						Lunar Distance (objects with largest hourly LD delta)							
Fri	GHA	ν	Dec	d	HP	-Polaris	+Mars	+Saturn	+Fomalhaut	+Deneb	+Achernar	+Altair	+Vega
0	207°46.4	8.8'	N14°39.7	15.0'	60.2'	74°45.3		18°50.6	58°44.9		71°45.7	84°49.3	92°27.5
1	222°14.2	8.7'	14°54.7	15.0'	60.2'	74°30.1		19°25.7	59°18.3		72°00.9	85°20.4	92°42.7
2	236°41.9	8.6'	15°09.7	14.9'	60.2'	74°15.0		20°01.0	59°51.8		72°16.3	85°51.5	92°57.9
3	251°09.5	8.4'	15°24.5	14.8'	60.2'	74°00.0		20°36.3	60°25.3		72°31.7	86°22.7	93°13.2
4	265°36.9	8.3'	15°39.3	14.7'	60.3'			21°11.8	60°58.9		72°47.3	86°54.0	93°28.4
5	280°04.2	8.2'	15°54.1	14.6'	60.3'			21°47.3	61°32.6		73°03.0	87°25.2	93°43.6
6	294°31.4	8.1'	N16°08.7	14.6'	60.3'			22°22.9	62°06.3		73°18.8	87°56.5	93°58.8
7	308°58.5	8.0'	16°23.3	14.5'	60.4'			22°58.7	62°40.2		73°34.7	88°27.9	94°14.1
8	323°25.5	7.8'	16°37.7	14.4'	60.4'			23°34.5	63°14.0		73°50.8	88°59.3	94°29.3
9	337°52.3	7.7'	16°52.1	14.3'	60.4'		8°22.3	24°10.4	63°48.0	70°53.8	74°06.9	89°30.7	94°44.4
10	352°19.0	7.6'	17°06.4	14.2'	60.4'		8°51.7	24°46.3	64°22.0	71°09.1	74°23.2	90°02.1	94°59.6
11	6°45.6	7.5'	17°20.6	14.1'	60.5'		9°21.8	25°22.3	64°56.1	71°24.5	74°39.5	90°33.6	95°14.8
12	21°12.1	7.3'	N17°34.7	14.0'	60.5'		9°52.6	25°58.4	65°30.2	71°40.0	74°56.0	91°05.1	95°29.9
13	35°38.4	7.2'	17°48.8	13.9'	60.5'		10°23.8	26°34.6	66°04.4	71°55.6	75°12.5	91°36.6	95°45.1
14	50°04.6	7.1'	18°02.7	13.8'	60.5'		10°55.4	27°10.8	66°38.6	72°11.4	75°29.2	92°08.1	96°00.2
15	64°30.7	7.0'	18°16.5	13.7'	60.6'		11°27.5	27°47.1	67°12.9	72°27.3	75°45.9	92°39.7	96°15.3
16	78°56.7	6.8'	18°30.2	13.6'	60.6'		11°59.8	28°23.5	67°47.3	72°43.3	76°02.8	93°11.3	96°30.3
17	93°22.5	6.7'	18°43.8	13.5'	60.6'		12°32.5	28°59.9	68°21.7	72°59.4	76°19.7	93°42.9	96°45.4
18	107°48.2	6.6'	N18°57.3	13.4'	60.6'		13°05.4	29°36.3	68°56.2	73°15.6	76°36.8	94°14.5	97°00.4
19	122°13.8	6.4'	19°10.7	13.3'	60.7'		13°38.6	30°12.8	69°30.7	73°31.9	76°53.9	94°46.2	
20	136°39.2	6.3'	19°24.0	13.2'	60.7'		14°11.9	30°49.4	70°05.2	73°48.4	77°11.1	95°17.9	
21	151°04.5	6.2'	19°37.1	13.0'	60.7'		14°45.5	31°26.0	70°39.9	74°04.9	77°28.4	95°49.5	
22	165°29.7	6.1'	19°50.2	12.9'	60.7'		15°19.2	32°02.6	71°14.5	74°21.6	77°45.8	96°21.2	
23	179°54.8	5.9'	20°03.1	12.8'	60.7'		15°53.1	32°39.3	71°49.2	74°38.4	78°03.2	96°52.9	
15 th	SD = 16.4' Mer. pass. 10:32												

Moon (16 th May)						Lunar Distance (objects with largest hourly LD delta)					
Sat	GHA	ν	Dec	d	HP	+Mars	+Saturn	+Fomalhaut	+Deneb	+Achernar	+Altair
0	194°19.7	5.8'	N20°15.9	12.7'	60.8'	16°27.1	33°16.1	72°23.9	74°55.2	78°20.8	97°24.6
1	208°44.5	5.7'	20°28.5	12.5'	60.8'	17°01.2	33°52.9	72°58.7	75°12.2	78°38.4	97°56.3
2	223°09.2	5.5'	20°41.1	12.4'	60.8'	17°35.5	34°29.7	73°33.6	75°29.3	78°56.1	98°28.1
3	237°33.7	5.4'	20°53.5	12.3'	60.8'	18°09.9	35°06.5	74°08.4	75°46.5	79°13.8	98°59.8
4	251°58.1	5.3'	21°05.8	12.1'	60.8'	18°44.4	35°43.4	74°43.3	76°03.7	79°31.7	99°31.5
5	266°22.4	5.2'	21°17.9	12.0'	60.9'	19°18.9	36°20.4	75°18.3	76°21.1	79°49.6	100°03.2
6	280°46.6	5.0'	N21°29.9	11.9'	60.9'			New Moon			
7	295°10.6	4.9'	21°41.8	11.7'	60.9'			New Moon			
8	309°34.5	4.8'	21°53.5	11.6'	60.9'			New Moon			
9	323°58.3	4.6'	22°05.1	11.4'	60.9'			New Moon			
10	338°21.9	4.5'	22°16.5	11.3'	60.9'			New Moon			
11	352°45.4	4.4'	22°27.8	11.1'	61.0'			New Moon			
12	7°08.8	4.3'	N22°39.0	11.0'	61.0'			New Moon			
13	21°32.1	4.1'	22°50.0	10.8'	61.0'			New Moon			
14	35°55.3	4.0'	23°00.8	10.7'	61.0'			New Moon			
15	50°18.3	3.9'	23°11.5	10.5'	61.0'			New Moon			
16	64°41.2	3.8'	23°22.0	10.3'	61.0'			New Moon			
17	79°04.0	3.7'	23°32.3	10.2'	61.0'			New Moon			
18	93°26.6	3.6'	N23°42.5	10.0'	61.1'			New Moon			
19	107°49.2	3.4'	23°52.5	9.8'	61.1'			New Moon			
20	122°11.6	3.3'	24°02.4	9.7'	61.1'			New Moon			
21	136°34.0	3.2'	24°12.0	9.5'	61.1'			New Moon			
22	150°56.2	3.1'	24°21.5	9.3'	61.1'			New Moon			
23	165°18.3	3.0'	24°30.9	9.1'	61.1'			New Moon			
16 th	SD = 16.6' Mer. pass. 11:30										

Moon (17 th May)						Lunar Distance (objects with largest hourly LD delta)							
Sun	GHA	ν	Dec	d	HP	-Regulus	-Sirius	-Procyon	-Pollux	-Jupiter	-Betelgeuse	-Capella	-Venus
0	179°40.2	2.9'	N24°40.0	9.0'	61.1'								
1	194°02.1	2.8'	24°49.0	8.8'	61.1'								
2	208°23.9	2.7'	24°57.8	8.6'	61.1'								
3	222°45.6	2.6'	25°06.4	8.4'	61.1'								
4	237°07.1	2.5'	25°14.8	8.2'	61.1'								
5	251°28.6	2.4'	25°23.0	8.0'	61.1'								
6	265°49.9	2.3'	N25°31.1	7.9'	61.1'								
7	280°11.2	2.2'	25°38.9	7.7'	61.1'								
8	294°32.4	2.1'	25°46.6	7.5'	61.1'								
9	308°53.5	2.0'	25°54.0	7.3'	61.2'								
10	323°14.5	1.9'	26°01.3	7.1'	61.2'								
11	337°35.4	1.8'	26°08.4	6.9'	61.2'								
12	351°56.2	1.7'	N26°15.3	6.7'	61.2'	84°42.2	57°14.8	54°21.6	47°51.9	46°09.0	31°27.6	24°05.6	22°51.0
13	6°16.9	1.7'	26°21.9	6.5'	61.2'	84°04.2	56°53.0	53°46.9	47°14.1	45°31.5	30°59.7	23°41.2	22°16.3
14	20°37.6	1.6'	26°28.4	6.3'	61.2'	83°26.2	56°31.4	53°12.2	46°36.2	44°54.1	30°32.1	23°17.4	21°41.6
15	34°58.2	1.5'	26°34.7	6.1'	61.2'	82°48.2	56°09.9	52°37.6	45°58.3	44°16.6	30°04.9	22°54.1	21°07.0
16	49°18.7	1.4'	26°40.7	5.9'	61.2'	82°10.2	55°48.7	52°03.0	45°20.5	43°39.1	29°38.0	22°31.5	20°32.4
17	63°39.1	1.4'	26°46.6	5.6'	61.2'	81°32.2	55°27.6	51°28.5	44°42.6	43°01.7	29°11.5	22°09.5	19°57.7
18	77°59.5	1.3'	N26°52.2	5.4'	61.2'	80°54.2	55°06.8	50°54.0	44°04.8	42°24.2	28°45.4	21°48.3	19°23.2
19	92°19.8	1.3'	26°57.7	5.2'	61.1'	80°16.3	54°46.2	50°19.6	43°26.9	41°46.8	28°19.6	21°27.8	18°48.6
20	106°40.1	1.2'	27°02.9	5.0'	61.1'	79°38.3	54°25.8	49°45.3	42°49.1	41°09.4	27°54.4	21°08.0	18°14.1
21	121°00.3	1.1'	27°07.9	4.8'	61.1'	79°00.3	54°05.5	49°11.0	42°11.2	40°31.9	27°29.5	20°49.1	17°39.6
22	135°20.4	1.1'	27°12.7	4.6'	61.1'	78°22.3	53°45.6	48°36.8	41°33.4	39°54.5	27°05.2	20°31.0	17°05.1
23	149°40.5	1.0'	27°17.3	4.4'	61.1'	77°06.4	53°25.8	48°02.7	40°55.6	39°17.1	26°41.3	20°13.7	16°30.7
17 th	SD = 16.7' Mer. pass. 12:34												

h Moon (18 th May)						Lunar Distance (objects with largest hourly LD delta)							
Mon	GHA	ν	Dec	d	HP	-Spica	-Arcturus	-Regulus	-Procyon	-Pollux	-Jupiter	-Venus	+Aldebaran
0	164°00.5	1.0'	N27°21.7	4.2'	61.1'			76°28.5	46°54.7	39°40.0	38°02.3	15°22.0	
1	178°20.5	1.0'	27°25.8	3.9'	61.1'			75°50.5	46°20.9	39°02.2	37°24.9	14°47.8	
2	192°40.5	0.9'	27°29.8	3.7'	61.1'			75°12.6	45°47.1	38°24.5	36°47.6	14°13.6	
3	207°00.4	0.9'	27°33.5	3.5'	61.1'		119°39.6	74°34.7	45°13.4	37°46.7	36°10.2	13°39.4	
4	221°20.3	0.8'	27°37.0	3.3'	61.1'		119°10.8	73°56.8	44°39.8	37°09.0	35°32.9	13°05.4	
5	235°40.1	0.8'	27°40.3	3.1'	61.1'		118°41.9	73°18.9	44°06.4	36°31.3	34°55.6	12°31.4	
6	249°59.9	0.8'	N27°43.4	2.9'	61.1'		118°12.9	72°41.0	43°33.0	35°53.6	34°18.3	11°57.6	
7	264°19.7	0.8'	27°46.2	2.6'	61.1'		117°43.8	72°03.1	42°59.7	35°15.9	33°41.0	11°23.8	
8	278°39.5	0.8'	27°48.9	2.4'	61.1'		117°14.6	71°25.3	42°26.6	34°38.3	33°03.8	10°50.2	
9	292°59.3	0.7'	27°51.3	2.2'	61.1'		116°45.4	70°47.4	41°53.6	34°00.6	32°26.5	10°16.8	
10	307°19.0	0.7'	27°53.5	2.0'	61.0'		116°16.1	70°09.6	41°20.7	33°23.0	31°49.3	9°43.5	14°17.5
11	321°38.7	0.7'	27°55.4	1.7'	61.0'		115°46.7	69°31.8	40°47.9	32°45.4	31°12.1	9°10.4	14°43.5
12	335°58.5	0.7'	N27°57.2	1.5'	61.0'		115°17.3	68°54.0	40°15.2	32°07.8	30°34.9	8°37.6	15°10.4
13	350°18.2	0.7'	27°58.7	1.3'	61.0'		114°47.8	68°16.2	39°42.7	31°30.3	29°57.8	8°05.0	15°38.0
14	4°37.9	0.7'	28°00.0	1.1'	61.0'		114°18.2	67°38.4	39°10.4	30°52.8	29°20.6	7°32.8	16°06.2
15	18°57.6	0.7'	28°01.1	0.9'	61.0'		113°48.6	67°00.7	38°38.2	30°15.3	28°43.5	7°01.0	16°35.1
16	33°17.4	0.7'	28°02.0	0.6'	61.0'		113°19.0	66°23.0	38°06.2	29°37.8	28°06.5	6°29.8	17°04.5
17	47°37.1	0.8'	28°02.6	0.4'	61.0'	119°47.3	112°49.2	65°45.3	37°34.3	29°00.4	27°29.4	5°59.2	17°34.4
18	61°56.9	0.8'	N28°03.0	0.2'	60.9'	119°09.7	112°19.5	65°07.6	37°02.6	28°23.0	26°52.4	5°29.4	18°04.7
19	76°16.7	0.8'	28°03.2	-0.0'	60.9'	118°32.0	111°49.6	64°29.9	36°31.0	27°45.6	26°15.4		18°35.5
20	90°36.5	0.8'	28°03.2	-0.2'	60.9'	117°54.4	111°19.8	63°52.3	35°59.7	27°08.2	25°38.5		19°06.6
21	104°56.3	0.9'	28°03.0	-0.5'	60.9'	117°16.8	110°49.9	63°14.6	35°28.6	26°30.9	25°01.6		19°38.1
22	119°16.2	0.9'	28°02.5	-0.7'	60.9'	116°39.2	110°19.9	62°37.0	34°57.6	25°53.7	24°24.7		20°09.9
23	133°36.1	0.9'	28°01.8	-0.9'	60.9'	116°01.7	109°49.9	61°59.5	34°26.9	25°16.4	23°47.9		20°42.0
18 th	SD = 16.7' Mer. pass. 13:41												

h Moon (19 th May)						Lunar Distance (objects with largest hourly LD delta)							
Tue	GHA	ν	Dec	d	HP	-Spica	-Regulus	-Pollux	-Jupiter	+Venus	+Capella	+Aldebaran	+Sun
0	147°56.0	1.0'	N28°00.9	-1.1'	60.8'	115°24.1	61°21.9	24°39.2	23°11.1			21°14.4	
1	162°16.0	1.0'	27°59.8	-1.3'	60.8'	114°46.6	60°44.4	24°02.1	22°34.3			21°47.0	
2	176°36.0	1.1'	27°58.5	-1.5'	60.8'	114°09.1	60°06.9	23°25.0	21°57.6			22°19.8	
3	190°56.1	1.1'	27°57.0	-1.8'	60.8'	113°31.7	59°29.4	22°47.9	21°20.9		20°07.6	22°52.9	
4	205°16.2	1.2'	27°55.2	-2.0'	60.8'	112°54.2	58°51.9	22°10.9	20°44.3		20°24.2	23°26.1	
5	219°36.3	1.2'	27°53.2	-2.2'	60.7'	112°16.8	58°14.5	21°34.0	20°07.7		20°41.7	23°59.5	
6	233°56.6	1.3'	N27°51.0	-2.4'	60.7'	111°39.4	57°37.1	20°57.1	19°31.2		21°00.1	24°33.1	
7	248°16.9	1.4'	27°48.6	-2.6'	60.7'	111°02.1	56°59.7	20°20.2	18°54.7		21°19.2	25°06.8	
8	262°37.2	1.4'	27°46.0	-2.8'	60.7'	110°24.8	56°22.4	19°43.4	18°18.3		21°39.0	25°40.6	
9	276°57.6	1.5'	27°43.2	-3.0'	60.7'	109°47.5	55°45.1	19°06.7	17°41.9		21°59.6	26°14.5	
10	291°18.1	1.6'	27°40.2	-3.2'	60.6'	109°10.2	55°07.8	18°30.0	17°05.7		22°20.8	26°48.6	
11	305°38.7	1.6'	27°36.9	-3.4'	60.6'	108°33.0	54°30.5	17°53.4	16°29.4		22°42.7	27°22.8	
12	319°59.3	1.7'	N27°33.5	-3.7'	60.6'	107°55.8	53°53.3	17°16.9	15°53.3	6°24.8	23°05.1	27°57.0	
13	334°20.1	1.8'	27°29.8	-3.9'	60.6'	107°18.6	53°16.1	16°40.5	15°17.2	6°55.5	23°28.2	28°31.4	
14	348°40.9	1.9'	27°26.0	-4.1'	60.5'	106°41.4	52°38.9	16°04.1	14°41.3	7°26.7	23°51.8	29°05.8	
15	3°01.8	2.0'	27°21.9	-4.3'	60.5'	106°04.3	52°01.8	15°27.9	14°05.4	7°58.2	24°15.9	29°40.3	
16	17°22.7	2.1'	27°17.6	-4.5'	60.5'	105°27.2	51°24.7	14°51.7	13°29.6	8°30.1	24°40.5	30°14.9	40°21.1
17	31°43.8	2.2'	27°13.2	-4.7'	60.5'	104°50.2	50°47.6	14°15.7	12°54.0	9°02.2	25°05.5	30°49.5	40°55.5
18	46°05.0	2.3'	N27°08.5	-4.9'	60.4'	104°13.2	50°10.6	13°39.7	12°18.4	9°34.4	25°31.0	31°24.2	41°29.8
19	60°26.2	2.4'	27°03.6	-5.1'	60.4'	103°36.2	49°33.6	13°04.0	11°43.1	10°06.9	25°56.9	31°58.9	42°04.1
20	74°47.6	2.5'	26°58.6	-5.2'	60.4'	102°59.2	48°56.6	12°28.3	11°07.8	10°39.5	26°23.1	32°33.7	42°38.3
21	89°09.0	2.6'	26°53.3	-5.4'	60.4'	102°22.3	48°19.7	11°52.8	10°32.8	11°12.2	26°49.8	33°08.5	43°12.6
22	103°30.6	2.7'	26°47.9	-5.6'	60.3'	101°45.5	47°42.8	11°17.6	9°57.9	11°44.9	27°16.8	33°43.3	43°46.8
23	117°52.3	2.8'	26°42.3	-5.8'	60.3'	101°08.6	47°05.9	10°42.5	9°23.3	12°17.8	27°44.1	34°18.2	44°21.0
19 th	SD = 16.6' Mer. pass. 14:47					Sun SD = 15.8'							

h Moon (20 th May)						Lunar Distance (objects with largest hourly LD delta)							
Wed	GHA	ν	Dec	d	HP	-Spica	-Regulus	-Pollux	-Jupiter	+Venus	+Capella	+Aldebaran	+Sun
0	132°14.0	2.9'	N26°36.5	-6.0'	60.3'	100°31.8	46°29.1	10°07.6	8°49.0	12°50.7	28°11.7	34°53.1	44°55.1
1	146°35.9	3.0'	26°30.5	-6.2'	60.3'	99°55.0	45°52.3	9°33.1	8°15.0	13°23.6	28°39.6	35°28.0	45°29.2
2	160°57.9	3.1'	26°24.3	-6.4'	60.2'	99°18.3	45°15.6	8°58.9	7°41.3	13°56.6	29°07.8	36°02.9	46°03.3
3	175°20.0	3.2'	26°17.9	-6.6'	60.2'	98°41.6	44°38.8	8°25.0	7°08.2	14°29.6	29°36.2	36°37.9	46°37.4
4	189°42.3	3.3'	26°11.3	-6.7'	60.2'	98°04.9	44°02.2	7°51.7	6°35.6	15°02.6	30°04.9	37°12.8	47°11.4
5	204°04.6	3.5'	26°04.6	-6.9'	60.1'	97°28.3	43°25.5	7°18.8	6°03.8	15°35.6	30°33.8	37°47.8	47°45.4
6	218°27.1	3.6'	N25°57.7	-7.1'	60.1'	96°51.7	42°48.9	6°46.7	5°32.9	16°08.6	31°03.0	38°22.8	48°19.3
7	232°49.6	3.7'	25°50.6	-7.3'	60.1'	96°15.1	42°12.3	6°15.4		16°41.7	31°32.3	38°57.8	48°53.3
8	247°12.3	3.8'	25°43.3	-7.4'	60.1'	95°38.6	41°35.8			17°14.7	32°01.8	39°32.8	49°27.2
9	261°35.2	4.0'	25°35.9	-7.6'	60.0'	95°02.2	40°59.3			17°47.7	32°31.5	40°07.8	50°01.0
10	275°58.1	4.1'	25°28.3	-7.8'	60.0'	94°25.7	40°22.9			18°20.7	33°01.4	40°42.8	50°34.8
11	290°21.2	4.2'	25°20.5	-7.9'	60.0'	93°49.3	39°46.4			18°53.7	33°31.5	41°17.8	51°08.6
12	304°44.4	4.3'	N25°12.6	-8.1'	59.9'	93°13.0	39°10.1			19°26.7	34°01.7	41°52.7	51°42.4
13	319°07.7	4.5'	25°04.5	-8.3'	59.9'	92°36.6	38°33.7			19°59.7	34°32.0	42°27.7	52°16.1
14	333°31.2	4.6'	24°56.2	-8.4'	59.9'	92°00.4	37°57.4			20°32.6	35°02.4	43°02.7	52°49.8
15	347°54.8	4.7'	24°47.8	-8.6'	59.8'	91°24.1	37°21.2			21°05.5	35°33.0	43°37.7	53°23.4
16	2°18.5	4.9'	24°39.2	-8.7'	59.8'	90°47.9	36°45.0			21°38.4	36°03.7	44°12.6	53°57.0
17	16°42.4	5.0'	24°30.5	-8.9'	59.8'	90°11.8	36°08.8			22°11.3	36°34.6	44°47.5	54°30.6
18	31°06.4	5.1'	N24°21.6	-9.0'	59.8'	89°35.7	35°32.7			22°44.2	37°05.5	45°22.5	55°04.1
19	45°30.5	5.3'	24°12.6	-9.2'	59.7'	88°59.6	34°56.6			23°17.0	37°36.5	45°57.4	55°37.6
20	59°54.8	5.4'	24°03.4	-9.3'	59.7'	88°23.6	34°20.5			23°49.8	38°07.6	46°32.3	56°11.0
21	74°19.2	5.5'	23°54.0	-9.5'	59.7'	87°47.6	33°44.5			24°22.6	38°38.8	47°07.1	56°44.4
22	88°43.7	5.7'	23°44.5	-9.6'	59.6'	87°11.6	33°08.6			24°55.3	39°10.1	47°42.0	57°17.8
23	103°08.4	5.8'	23°34.9	-9.8'	59.6'	86°35.7	32°32.6			25°28.0	39°41.4	48°16.8	57°51.1
20 th	SD = 16.4' Mer. pass. 15:50					Sun SD = 15.8'							

Moon (21 st May)					Lunar Distance (objects with largest hourly LD delta)								
Thu	GHA	ν	Dec	d	HP	-Antares	-Spica	-Arcturus	-Regulus	+Jupiter	+Pollux	+Aldebaran	+Sun
0	117°33.2	5.9'	N23°25.2	-9.9'	59.6'		85°59.8	85°16.4	31°56.7	6°46.5		48°51.6	58°24.4
1	131°58.2	6.1'	23°15.3	-10.0'	59.5'		85°24.0	84°46.9	31°20.9	7°18.5		49°26.4	58°57.7
2	146°23.3	6.2'	23°05.2	-10.2'	59.5'		84°48.2	84°17.4	30°45.1	7°50.9	7°01.9	50°01.2	59°30.9
3	160°48.5	6.4'	22°55.0	-10.3'	59.5'		84°12.5	83°48.1	30°09.3	8°23.7	7°33.6	50°36.0	60°04.1
4	175°13.8	6.5'	22°44.7	-10.4'	59.4'		83°36.8	83°18.7	29°33.6	8°56.8	8°05.8	51°10.7	60°37.2
5	189°39.4	6.6'	22°34.3	-10.6'	59.4'		83°01.1	82°49.4	28°58.0	9°30.1	8°38.4	51°45.4	61°10.3
6	204°05.0	6.8'	N22°23.7	-10.7'	59.4'		82°25.5	82°20.2	28°22.3	10°03.6	9°11.4	52°20.0	61°43.3
7	218°30.8	6.9'	22°13.1	-10.8'	59.3'		81°50.0	81°51.0	27°46.8	10°37.2	9°44.6	52°54.7	62°16.3
8	232°56.7	7.1'	22°02.2	-10.9'	59.3'		81°14.4	81°21.9	27°11.2	11°10.9	10°18.1	53°29.3	62°49.3
9	247°22.7	7.2'	21°51.3	-11.1'	59.3'		80°39.0	80°52.8	26°35.7	11°44.7	10°51.7	54°03.9	63°22.2
10	261°48.9	7.3'	21°40.3	-11.2'	59.2'		80°03.5	80°23.7	26°00.3	12°18.6	11°25.5	54°38.4	63°55.1
11	276°15.3	7.5'	21°29.1	-11.3'	59.2'		79°28.1	79°54.8	25°24.9	12°52.5	11°59.4	55°13.0	64°27.9
12	290°41.7	7.6'	N21°17.8	-11.4'	59.1'		78°52.8	79°25.9	24°49.5	13°26.5	12°33.4	55°47.4	65°00.7
13	305°08.3	7.7'	21°06.4	-11.5'	59.1'		78°17.5	78°57.0	24°14.2	14°00.6	13°07.4	56°21.9	65°33.5
14	319°35.1	7.9'	20°54.9	-11.6'	59.1'		77°42.2	78°28.2	23°38.9	14°34.6	13°41.6	56°56.3	66°06.2
15	334°02.0	8.0'	20°43.3	-11.7'	59.0'		77°07.0	77°59.5	23°03.6	15°08.7	14°15.8	57°30.7	66°38.9
16	348°29.0	8.1'	20°31.5	-11.8'	59.0'		76°31.8	77°30.8	22°28.5	15°42.7	14°50.0	58°05.1	67°11.5
17	2°56.1	8.3'	20°19.7	-11.9'	59.0'		75°56.7	77°02.2	21°53.3	16°16.8	15°24.2	58°39.5	67°44.1
18	17°23.4	8.4'	N20°07.8	-12.0'	58.9'		75°21.6	76°33.6	21°18.2	16°50.9	15°58.5	59°13.8	68°16.6
19	31°50.8	8.5'	19°55.7	-12.1'	58.9'		74°46.6	76°05.1	20°43.1	17°25.0	16°32.8	59°48.0	68°49.1
20	46°18.4	8.7'	19°43.6	-12.2'	58.9'		74°11.6	75°36.7	20°08.1	17°59.0	17°07.1	60°22.3	69°21.6
21	60°46.0	8.8'	19°31.4	-12.3'	58.8'	119°29.9	73°36.6	75°08.4	19°33.2	18°33.1	17°41.3	60°56.5	69°54.0
22	75°13.8	8.9'	19°19.0	-12.4'	58.8'	118°55.0	73°01.7	74°40.1	18°58.2	19°07.1	18°15.6	61°30.6	70°26.4
23	89°41.8	9.1'	19°06.6	-12.5'	58.8'	118°20.1	72°26.8	74°11.9	18°23.3	19°41.1	18°49.9	62°04.8	70°58.7
21 st	SD = 16.2' Mer. pass. 16:48					Sun SD = 15.8'							

Moon (22 nd May)					Lunar Distance (objects with largest hourly LD delta)								
Fri	GHA	ν	Dec	d	HP	-Antares	-Arcturus	-Spica	-Regulus	+Pollux	+Jupiter	+Aldebaran	+Sun
0	104°09.9	9.2'	N18°54.1	-12.6'	58.7'	117°45.2	73°43.7	71°52.0	17°48.5	19°24.2	20°15.1	62°38.9	71°31.0
1	118°38.1	9.3'	18°41.5	-12.7'	58.7'	117°10.4	73°15.7	71°17.2	17°13.7	19°58.5	20°49.1	63°12.9	72°03.2
2	133°06.4	9.5'	18°28.8	-12.8'	58.6'	116°35.7	72°47.7	70°42.5	16°39.0	20°32.7	21°23.0	63°47.0	72°35.4
3	147°34.9	9.6'	18°16.0	-12.9'	58.6'	116°01.0	72°19.7	70°07.8	16°04.2	21°06.9	21°56.9	64°21.0	73°07.6
4	162°03.4	9.7'	18°03.2	-12.9'	58.6'	115°26.3	71°51.9	69°33.2	15°29.6	21°41.2	22°30.8	64°54.9	73°39.7
5	176°32.1	9.8'	17°50.3	-13.0'	58.5'	114°51.7	71°24.1	68°58.6	14°55.0	22°15.4	23°04.7	65°28.8	74°11.8
6	191°01.0	10.0'	N17°37.2	-13.1'	58.5'	114°17.1	70°56.4	68°24.0	14°20.4	22°49.5	23°38.5	66°02.7	74°43.8
7	205°29.9	10.1'	17°24.1	-13.2'	58.5'	113°42.6	70°28.8	67°49.5	13°45.9	23°23.7	24°12.3	66°36.6	75°15.8
8	219°59.0	10.2'	17°11.0	-13.2'	58.4'	113°08.1	70°01.3	67°15.0	13°11.4	23°57.8	24°46.1	67°10.4	75°47.8
9	234°28.2	10.3'	16°57.7	-13.3'	58.4'	112°33.7	69°33.8	66°40.6	12°36.9	24°31.9	25°19.9	67°44.1	76°19.7
10	248°57.5	10.4'	16°44.4	-13.4'	58.4'	111°59.3	69°06.4	66°06.2	12°02.5	25°05.9	25°53.6	68°17.9	76°51.5
11	263°27.0	10.6'	16°31.0	-13.5'	58.3'	111°24.9	68°39.1	65°31.9	11°28.2	25°40.0	26°27.3	68°51.6	77°23.3
12	277°56.5	10.7'	N16°17.5	-13.5'	58.3'	110°50.6	68°11.9	64°57.6	10°53.8	26°14.0	27°00.9	69°25.2	77°55.1
13	292°26.2	10.8'	16°04.0	-13.6'	58.3'	110°16.3	67°44.8	64°23.3	10°19.6	26°48.0	27°34.5	69°58.9	78°26.8
14	306°56.0	10.9'	15°50.4	-13.7'	58.2'	109°42.1	67°17.7	63°49.1	9°45.3	27°21.9	28°08.1	70°32.4	78°58.5
15	321°25.9	11.0'	15°36.8	-13.7'	58.2'	109°07.9	66°50.8	63°14.9	9°11.2	27°55.8	28°41.6	71°06.0	79°30.2
16	335°55.9	11.1'	15°23.0	-13.8'	58.1'	108°33.8	66°23.9	62°40.8	8°37.0	28°29.7	29°15.1	71°39.5	80°01.8
17	350°26.1	11.2'	15°09.2	-13.8'	58.1'	107°59.7	65°57.2	62°06.7	8°02.9	29°03.5	29°48.6	72°13.0	80°33.3
18	4°56.3	11.4'	N14°55.4	-13.9'	58.1'	107°25.6	65°30.5	61°32.7	7°28.9	29°37.4	30°22.0	72°46.4	81°04.9
19	19°26.7	11.5'	14°41.5	-14.0'	58.0'	106°51.6	65°03.9	60°58.0	6°54.8	30°11.1	30°55.4	73°19.8	81°36.3
20	33°57.1	11.6'	14°27.5	-14.0'	58.0'	106°17.6	64°37.4	60°24.8	6°20.9	30°44.9	31°28.8	73°53.2	82°07.8
21	48°27.7	11.7'	14°13.5	-14.1'	58.0'	105°43.7	64°11.0	59°50.9	5°46.9	31°18.6	32°02.1	74°26.6	82°39.2
22	62°58.4	11.8'	13°59.5	-14.1'	57.9'	105°09.8	63°44.7	59°17.0	5°13.0	31°52.3	32°35.4	75°00.4	83°10.5
23	77°29.1	11.9'	13°45.4	-14.2'	57.9'	104°35.9	63°18.5	58°43.2	4°39.2	32°25.9	33°08.7	75°30.6	83°41.8
22 nd	SD = 16.0' Mer. pass. 17:40					Sun SD = 15.8'							

Moon (23 rd May)					Lunar Distance (objects with largest hourly LD delta)								
Sat	GHA	ν	Dec	d	HP	-Antares	-Rigel Kent.	-Spica	±Regulus	+Pollux	+Jupiter	+Capella	+Sun
0	92°00.0	12.0'	N13°31.2	-14.2'	57.9'	104°02.1	93°14.1	58°09.4	4°05.4	32°59.5	33°41.9	65°45.8	84°13.1
1	106°31.0	12.1'	13°17.0	-14.3'	57.8'	103°28.4	92°47.4	57°35.6	3°31.6	33°33.1	34°15.0	66°17.5	84°44.3
2	121°02.1	12.2'	13°02.7	-14.3'	57.8'	102°54.7	92°20.7	57°01.9	2°57.9	34°06.6	34°48.2	66°49.3	85°15.5
3	135°33.2	12.3'	12°48.4	-14.3'	57.8'	102°21.0	91°54.0	56°28.3	2°24.3	34°40.1	35°21.3	67°21.0	85°46.7
4	150°04.5	12.4'	12°34.1	-14.4'	57.7'	101°47.3	91°27.3	55°54.7	1°50.6	35°13.6	35°54.3	67°52.7	86°17.8
5	164°35.9	12.5'	12°19.7	-14.4'	57.7'	101°13.7	91°00.7	55°21.1	1°17.1	35°47.0	36°27.4	68°24.3	86°48.8
6	179°07.4	12.6'	N12°05.2	-14.5'	57.7'	100°40.2	90°34.1	54°47.6	0°43.6	36°20.4	37°00.3	68°56.0	87°19.9
7	193°38.9	12.7'	11°50.8	-14.5'	57.6'	100°06.7	90°07.6	54°14.1	0°10.7	36°53.8	37°33.3	69°27.6	87°50.8
8	208°10.6	12.7'	11°36.3	-14.5'	57.6'	99°33.2	89°41.0	53°40.6		37°27.1	38°06.2	69°59.2	88°21.8
9	222°42.3	12.8'	11°21.7	-14.6'	57.5'	98°59.8	89°14.5	53°07.2		38°00.4	38°39.1	70°30.8	88°52.7
10	237°14.2	12.9'	11°07.1	-14.6'	57.5'	98°26.4	88°48.1	52°33.8		38°33.6	39°11.9	71°02.3	89°23.6
11	251°46.1	13.0'	10°52.5	-14.6'	57.5'	97°53.0	88°21.6	52°00.5	2°03.8	39°06.8	39°44.7	71°33.8	89°54.4
12	266°18.1	13.1'	N10°37.9	-14.7'	57.4'	97°19.7	87°55.3	51°27.2	2°37.1	39°40.0	40°17.5	72°05.3	90°25.2
13	280°50.2	13.2'	10°23.2	-14.7'	57.4'	96°46.4	87°28.9	50°54.0	3°10.4	40°13.1	40°50.2	72°36.8	90°55.9
14	295°22.4	13.3'	10°08.5	-14.7'	57.4'	96°13.2	87°02.6	50°20.8	3°43.6	40°46.2	41°22.9	73°08.2	91°26.6
15	309°54.6	13.3'	09°53.8	-14.8'	57.3'	95°40.0	86°36.3	49°47.6	4°16.8	41°19.3	41°55.5	73°39.6	91°57.3
16	324°27.0	13.4'	09°39.0	-14.8'	57.3'	95°06.8	86°10.1	49°14.5	4°50.0	41°52.3	42°28.2	74°11.0	92°27.9
17	338°59.4	13.5'	09°24.2	-14.8'	57.3'	94°33.7	85°43.8	48°41.4	5°23.1	42°25.3	43°00.7	74°42.4	92°58.5
18	353°31.9	13.6'	N09°09.4	-14.8'	57.2'	94°00.6	85°17.7	48°08.3	5°56.2	42°58.3	43°33.3	75°13.7	93°29.0
19	8°04.4	13.6'	08°54.5	-14.9'	57.2'	93°27.6	84°51.6	47°35.3	6°29.2	43°31.2	44°05.8	75°45.0	93°59.5
20	22°37.1	13.7'	08°39.7	-14.9'	57.2'	92°54.6	84°25.5	47°02.3	7°02.2	44°04.1	44°38.2	76°16.3	94°30.0
21	37°09.8	13.8'	08°24.8	-14.9'	57.1'	92°21.6	83°59.4	46°29.4	7°35.2	44°36.9	45°10.7	76°47.5	95°00.4
22	51°42.6	13.9'	08°09.9	-14.9'	57.1'	91°48.7	83°33.4	45°56.5	8°08.1	45°09.7	45°43.1	77°18.8	95°30.8
23	66°15.5	13.9'	07°55.0	-14.9'	57.1'	91°15.8	83°07.5	45°23.6	8°41.0	45°42.5	46°15.4	77°49.9	96°01.2
23 rd	SD = 15.8' Mer. pass. 18:27					Sun SD = 15.8'							

h Moon (24 th May)						Lunar Distance (objects with largest hourly LD delta)							
Sun	GHA	ν	Dec	d	HP	-Antares	-Rigel Kent.	-Hadar	-Spica	+Regulus	+Pollux	+Jupiter	+Capella
0	80°48.4	14.0'	N07°40.0	-15.0'	57.0'	90°43.0	82°41.6	78°51.0	44°50.8	9°13.8	46°15.2	46°47.7	78°21.1
1	95°21.4	14.1'	07°25.1	-15.0'	57.0'	90°10.2	82°15.7	78°25.9	44°18.0	9°46.7	46°47.9	47°20.0	78°52.2
2	109°54.5	14.1'	07°10.1	-15.0'	57.0'	89°37.4	81°49.9	78°00.8	43°45.3	10°19.4	47°20.6	47°52.3	79°23.3
3	124°27.6	14.2'	06°55.1	-15.0'	56.9'	89°04.7	81°24.1	77°35.9	43°12.6	10°52.2	47°53.3	48°24.5	79°54.4
4	139°00.8	14.3'	06°40.1	-15.0'	56.9'	88°31.9	80°58.4	77°10.9	42°39.9	11°24.9	48°25.9	48°56.7	80°25.5
5	153°34.1	14.3'	06°25.1	-15.0'	56.9'	87°59.3	80°32.7	76°46.1	42°07.3	11°57.5	48°58.4	49°28.8	80°56.5
6	168°07.4	14.4'	N06°10.1	-15.0'	56.8'	87°26.7	80°07.1	76°21.3	41°34.7	12°30.2	49°31.0	50°00.9	81°27.5
7	182°40.8	14.4'	05°55.1	-15.0'	56.8'	86°54.1	79°41.5	75°56.5	41°02.1	13°02.8	50°03.5	50°33.0	81°58.4
8	197°14.2	14.5'	05°40.0	-15.0'	56.8'	86°21.5	79°15.9	75°31.8	40°29.6	13°35.3	50°35.9	51°05.0	82°29.3
9	211°47.7	14.5'	05°25.0	-15.1'	56.8'	85°49.0	78°50.4	75°07.2	39°57.1	14°07.9	51°08.4	51°37.0	83°00.2
10	226°21.2	14.6'	05°09.9	-15.1'	56.7'	85°16.5	78°25.0	74°42.6	39°24.7	14°40.3	51°40.8	52°09.0	83°31.1
11	240°54.8	14.7'	04°54.9	-15.1'	56.7'	84°44.0	77°59.6	74°18.1	38°52.3	15°12.8	52°13.1	52°41.0	84°01.9
12	255°28.5	14.7'	N04°39.8	-15.1'	56.7'	84°11.6	77°34.3	73°53.7	38°19.9	15°45.2	52°45.4	53°12.9	84°32.7
13	270°02.2	14.8'	04°24.7	-15.1'	56.6'	83°39.2	77°09.0	73°29.3	37°47.5	16°17.6	53°17.7	53°44.7	85°03.5
14	284°36.0	14.8'	04°09.7	-15.1'	56.6'	83°06.9	76°43.8	73°05.0	37°15.2	16°49.9	53°50.0	54°16.6	85°34.3
15	299°09.8	14.9'	03°54.6	-15.1'	56.6'	82°34.6	76°18.6	72°40.8	36°42.9	17°22.3	54°22.2	54°48.4	86°05.0
16	313°43.6	14.9'	03°39.5	-15.1'	56.5'	82°02.3	75°53.5	72°16.6	36°10.7	17°54.5	54°54.4	55°20.1	86°35.7
17	328°17.5	14.9'	03°24.4	-15.1'	56.5'	81°30.0	75°28.5	71°52.5	35°38.5	18°26.8	55°26.6	55°51.9	87°06.3
18	342°51.5	15.0'	N03°09.4	-15.1'	56.5'	80°57.8	75°03.5	71°28.4	35°06.3	18°59.0	55°58.7	56°23.6	87°36.9
19	357°25.5	15.0'	02°54.3	-15.1'	56.4'	80°25.6	74°38.5	71°04.4	34°34.2	19°31.2	56°30.8	56°55.3	88°07.5
20	11°59.5	15.1'	02°39.2	-15.1'	56.4'	79°53.5	74°13.6	70°40.5	34°02.1	20°03.3	57°02.9	57°26.9	88°38.1
21	26°33.5	15.1'	02°24.2	-15.1'	56.4'	79°21.4	73°48.8	70°16.7	33°30.0	20°35.5	57°35.0	57°58.5	89°08.6
22	41°07.7	15.1'	02°09.1	-15.0'	56.4'	78°49.3	73°24.0	69°53.0	32°58.0	21°07.5	58°07.0	58°30.1	89°39.1
23	55°41.8	15.2'	01°54.1	-15.0'	56.3'	78°17.2	72°59.3	69°29.3	32°26.0	21°39.6	58°38.9	59°01.6	90°09.6
24 th	SD = 15.6' Mer. pass. 19:11												

h Moon (25 th May)						Lunar Distance (objects with largest hourly LD delta)							
Mon	GHA	ν	Dec	d	HP	-Altair	-Antares	-Rigel Kent.	-Spica	+Regulus	+Pollux	+Jupiter	+Capella
0	70°16.0	15.2'	N01°39.0	-15.0'	56.3'		77°45.2	72°34.7	31°54.0	22°11.6	59°10.9	59°33.1	90°40.1
1	84°50.2	15.2'	01°24.0	-15.0'	56.3'		77°13.2	72°10.1	31°22.1	22°43.6	59°42.8	60°04.6	91°10.5
2	99°24.4	15.3'	01°09.0	-15.0'	56.2'		76°41.3	71°45.6	30°50.2	23°15.6	60°14.7	60°36.1	91°40.9
3	113°58.7	15.3'	00°54.0	-15.0'	56.2'		76°09.3	71°21.2	30°18.3	23°47.5	60°46.5	61°07.5	92°11.2
4	128°33.0	15.3'	00°39.0	-15.0'	56.2'		75°37.4	70°56.8	29°46.5	24°19.4	61°18.4	61°38.9	92°41.5
5	143°07.4	15.4'	00°24.0	-15.0'	56.2'		75°05.6	70°32.5	29°14.7	24°51.3	61°50.2	62°10.3	93°11.8
6	157°41.8	15.4'	N00°09.0	-15.0'	56.1'		74°33.7	70°08.2	28°42.9	25°23.1	62°21.9	62°41.6	93°42.1
7	172°16.1	15.4'	S00°05.9	-14.9'	56.1'		74°01.9	69°44.0	28°11.2	25°54.9	62°53.7	63°12.9	94°12.3
8	186°50.6	15.4'	00°20.9	-14.9'	56.1'		73°30.2	69°19.9	27°39.5	26°26.7	63°25.4	63°44.2	94°42.5
9	201°25.0	15.5'	00°35.8	-14.9'	56.0'		72°58.4	68°55.9	27°07.8	26°58.4	63°57.0	64°15.4	95°12.7
10	215°59.5	15.5'	00°50.7	-14.9'	56.0'		72°26.7	68°31.9	26°36.1	27°30.1	64°28.7	64°46.6	95°42.8
11	230°34.0	15.5'	01°05.6	-14.9'	56.0'		71°55.0	68°08.0	26°04.5	28°01.8	65°00.3	65°17.8	96°12.9
12	245°08.5	15.5'	S01°20.5	-14.9'	56.0'	119°54.3	71°23.4	67°44.1	25°33.0	28°33.5	65°31.9	65°49.0	96°43.0
13	259°43.0	15.6'	01°35.4	-14.8'	55.9'	119°29.2	70°51.7	67°20.4	25°01.4	29°05.1	66°03.5	66°20.1	97°13.1
14	274°17.6	15.6'	01°50.2	-14.8'	55.9'	119°04.1	70°20.1	66°56.7	24°29.9	29°36.7	66°35.0	66°51.2	97°43.1
15	288°52.2	15.6'	02°05.0	-14.8'	55.9'	118°38.9	69°48.6	66°33.1	23°58.4	30°08.3	67°06.5	67°22.3	98°13.1
16	303°26.7	15.6'	02°19.8	-14.8'	55.9'	118°13.7	69°17.0	66°09.6	23°27.0	30°39.8	67°38.0	67°53.3	98°43.0
17	318°01.3	15.6'	02°34.6	-14.8'	55.8'	117°48.4	68°45.5	65°46.1	22°55.5	31°11.4	68°09.5	68°24.3	99°12.9
18	332°36.0	15.6'	S02°49.4	-14.7'	55.8'	117°23.1	68°14.0	65°22.7	22°24.1	31°42.8	68°40.9	68°55.3	99°42.8
19	347°10.6	15.6'	03°04.1	-14.7'	55.8'	116°57.8	67°42.5	64°59.4	21°52.8	32°14.3	69°12.3	69°26.3	100°12.7
20	1°45.2	15.6'	03°18.8	-14.7'	55.8'	116°32.5	67°11.1	64°36.2	21°21.5	32°45.7	69°43.7	69°57.2	100°42.5
21	16°19.9	15.7'	03°33.5	-14.7'	55.7'	116°07.1	66°39.7	64°13.1	20°50.2	33°17.2	70°15.0	70°28.1	101°12.3
22	30°54.5	15.7'	03°48.1	-14.6'	55.7'	115°41.7	66°08.3	63°50.0	20°18.9	33°48.5	70°46.3	70°59.0	101°42.1
23	45°29.2	15.7'	04°02.8	-14.6'	55.7'	115°16.3	65°37.0	63°27.1	19°47.7	34°19.9	71°17.6	71°29.9	102°11.8
25 th	SD = 15.4' Mer. pass. 19:53												

h Moon (26 th May)						Lunar Distance (objects with largest hourly LD delta)							
Tue	GHA	ν	Dec	d	HP	-Altair	-Antares	-Rigel Kent.	-Spica	+Regulus	+Pollux	+Jupiter	+Capella
0	60°03.8	15.7'	S04°17.4	-14.6'	55.7'	114°50.9	65°05.6	63°04.2	19°16.5	34°51.2	71°48.9	72°00.7	102°41.6
1	74°38.5	15.7'	04°31.9	-14.5'	55.6'	114°25.4	64°34.3	62°41.4	18°45.3	35°22.5	72°20.1	72°31.5	103°11.2
2	89°13.2	15.7'	04°46.5	-14.5'	55.6'	113°59.9	64°03.1	62°18.7	18°14.2	35°53.8	72°51.4	73°02.3	103°40.9
3	103°47.9	15.7'	05°01.0	-14.5'	55.6'	113°34.4	63°31.8	61°56.1	17°43.1	36°25.1	73°22.6	73°33.1	104°10.5
4	118°22.5	15.7'	05°15.5	-14.4'	55.6'	113°08.9	63°00.6	61°33.6	17°12.0	36°56.3	73°53.7	74°03.8	104°40.1
5	132°57.2	15.7'	05°29.9	-14.4'	55.5'	112°43.3	62°29.4	61°11.1	16°41.0	37°27.5	74°24.9	74°34.5	105°09.6
6	147°31.9	15.7'	S05°44.3	-14.4'	55.5'	112°17.7	61°58.2	60°48.8	16°10.0	37°58.7	74°56.0	75°05.2	105°39.2
7	162°06.6	15.7'	05°58.7	-14.3'	55.5'	111°52.1	61°27.0	60°26.5	15°39.0	38°29.8	75°27.1	75°35.8	106°08.6
8	176°41.3	15.7'	06°13.0	-14.3'	55.5'	111°26.5	60°55.9	60°04.4	15°08.1	39°01.0	75°58.2	76°06.5	106°38.1
9	191°15.9	15.7'	06°27.4	-14.3'	55.4'	111°00.9	60°24.8	59°42.3	14°37.2	39°32.1	76°29.2	76°37.1	107°07.5
10	205°50.6	15.7'	06°41.6	-14.2'	55.4'	110°35.3	59°53.7	59°20.4	14°06.4	40°03.2	77°00.3	77°07.7	107°36.9
11	220°25.3	15.7'	06°55.9	-14.2'	55.4'	110°09.6	59°22.6	58°58.5	13°35.6	40°34.2	77°31.3	77°38.3	108°06.3
12	234°59.9	15.6'	S07°10.1	-14.2'	55.4'	109°43.9	58°51.6	58°36.8	13°04.8	41°05.3	78°02.2	78°08.8	108°35.6
13	249°34.6	15.6'	07°24.2	-14.1'	55.3'	109°18.3	58°20.6	58°15.1	12°34.1	41°36.3	78°33.2	78°39.3	109°04.9
14	264°09.2	15.6'	07°38.3	-14.1'	55.3'	108°52.6	57°49.6	57°53.6	12°03.4	42°07.3	79°04.1	79°09.8	109°34.2
15	278°43.8	15.6'	07°52.4	-14.0'	55.3'	108°26.9	57°18.6	57°32.2	11°32.8	42°38.3	79°35.1	79°40.3	110°03.4
16	293°18.4	15.6'	08°06.5	-14.0'	55.3'	108°01.1	56°47.7	57°10.8	11°02.3	43°09.2	80°06.0	80°10.7	110°32.7
17	307°53.0	15.6'	08°20.5	-14.0'	55.3'	107°35.4	56°16.8	56°49.6	10°31.8	43°40.1	80°36.8	80°41.2	111°01.8
18	322°27.6	15.6'	S08°34.4	-13.9'	55.2'	107°09.7	55°45.9	56°28.5	10°01.3	44°11.0	81°07.7	81°11.6	111°31.0
19	337°02.2	15.6'	08°48.3	-13.9'	55.2'	106°43.9	55°15.0	56°07.5	9°30.9	44°41.9	81°38.5	81°42.0	112°00.1
20	351°36.7	15.5'	09°02.2	-13.8'	55.2'	106°18.2	54°44.1	55°46.6	9°00.7	45°12.8	82°09.3	82°12.3	112°29.2
21	6°11.3	15.5'	09°16.0	-13.8'	55.2'	105°52.4	54°13.3	55°25.9	8°30.5	45°43.6	82°40.1	82°42.7	112°58.2
22	20°45.8	15.5'	09°29.8	-13.7'	55.2'	105°26.7	53°42.5	55°05.2	8°00.4	46°14.4	83°10.9	83°13.0	113°27.2
23	35°20.3	15.5'	09°43.5	-13.7'	55.1'	105°00.9	53°11.7	54°44.7	7°30.4	46°45.2	83°41.6	83°43.3	113°56.2
26 th	SD = 15.2' Mer. pass. 20:35												

Moon (27 th May)						Lunar Distance (objects with largest hourly LD delta)							
h	GHA	ν	Dec	d	HP	-Altair	-Rigel Kent.	-Antares	+Spica	+Regulus	+Procyon	+Pollux	+Jupiter
0	49°54.8	15.5'	S09°57.2	-13.6'	55.1'	104°35.1	54°24.3	52°40.9	7°00.5	47°16.0	80°35.5	84°12.3	84°13.6
1	64°29.2	15.4'	10°10.8	-13.6'	55.1'	104°09.3	54°04.0	52°10.1	6°30.8	47°46.8	81°04.5	84°43.0	84°43.9
2	79°03.7	15.4'	10°24.4	-13.5'	55.1'	103°43.6	53°43.9	51°39.4	6°01.3	48°17.5	81°33.5	85°13.7	85°14.1
3	93°38.1	15.4'	10°38.0	-13.5'	55.1'	103°17.8	53°23.9	51°08.7	5°32.1	48°48.2	82°02.5	85°44.4	85°44.3
4	108°12.5	15.4'	10°51.4	-13.4'	55.0'	102°52.0	53°04.0	50°38.0	5°03.2	49°18.9	82°31.5	86°15.0	86°14.5
5	122°46.9	15.3'	11°04.9	-13.4'	55.0'	102°26.2	52°44.2	50°07.3	4°34.6	49°49.6	83°00.4	86°45.7	86°44.7
6	137°21.2	15.3'	S11°18.3	-13.3'	55.0'	102°00.4	52°24.6	49°36.6	4°06.6	50°20.3	83°29.4	87°16.3	87°14.9
7	151°55.5	15.3'	11°31.6	-13.3'	55.0'	101°34.6	52°05.1	49°06.0	3°39.4	50°50.9	83°58.3	87°46.9	87°45.0
8	166°29.8	15.3'	11°44.9	-13.2'	55.0'	101°08.8	51°45.8	48°35.4		51°21.6	84°27.2	88°17.4	88°15.2
9	181°04.1	15.2'	11°58.1	-13.2'	54.9'	100°43.0	51°26.6	48°04.8		51°52.2	84°56.2	88°48.0	88°45.3
10	195°38.3	15.2'	12°11.3	-13.1'	54.9'	100°17.2	51°07.5	47°34.2		52°22.7	85°25.0	89°18.5	89°15.4
11	210°12.5	15.2'	12°24.4	-13.1'	54.9'	99°51.4	50°48.6	47°03.6		52°53.3	85°53.9	89°49.0	89°45.4
12	224°46.7	15.1'	S12°37.4	-13.0'	54.9'	99°25.6	50°29.9	46°33.0		53°23.9	86°22.8	90°19.5	90°15.5
13	239°20.8	15.1'	12°50.4	-12.9'	54.9'	98°59.8	50°11.2	46°02.5		53°54.4	86°51.6	90°50.0	90°45.5
14	253°54.9	15.1'	13°03.4	-12.9'	54.8'	98°34.0	49°52.8	45°32.0		54°24.9	87°20.5	91°20.5	91°15.6
15	268°29.0	15.0'	13°16.2	-12.8'	54.8'	98°08.2	49°34.5	45°01.5		54°55.4	87°49.3	91°50.9	91°45.6
16	283°03.0	15.0'	13°29.1	-12.8'	54.8'	97°42.4	49°16.3	44°31.0		55°25.9	88°18.1	92°21.4	92°15.5
17	297°37.0	15.0'	13°41.8	-12.7'	54.8'	97°16.7	48°58.4	44°00.6		55°56.4	88°46.9	92°51.8	92°45.5
18	312°11.0	14.9'	S13°54.5	-12.6'	54.8'	96°50.9	48°40.5	43°30.1		56°26.8	89°15.6	93°22.2	93°15.5
19	326°44.9	14.9'	14°07.2	-12.6'	54.8'	96°25.1	48°22.9	42°59.7		56°57.2	89°44.4	93°52.5	93°45.4
20	341°18.8	14.9'	14°19.7	-12.5'	54.7'	95°59.3	48°05.4	42°29.3		57°27.7	90°13.2	94°22.9	94°15.3
21	355°52.7	14.8'	14°32.2	-12.4'	54.7'	95°33.6	47°48.1	41°58.9	4°17.8	57°58.1	90°41.9	94°53.2	94°45.2
22	10°26.5	14.8'	14°44.7	-12.4'	54.7'	95°07.8	47°30.9	41°28.5	4°45.7	58°28.4	91°10.6	95°23.6	95°15.1
23	25°00.2	14.7'	14°57.1	-12.3'	54.7'	94°42.1	47°14.0	40°58.1	5°14.1	58°58.8	91°39.3	95°53.9	95°45.0
27 th	SD = 15.0' Mer. pass. 21:17												

Moon (28 th May)						Lunar Distance (objects with largest hourly LD delta)							
Thu	GHA	ν	Dec	d	HP	-Fomalhaut	-Altair	-Rigel Kent.	-Antares	+Spica	+Regulus	+Jupiter	+Pollux
0	39°34.0	14.7'	S15°09.4	-12.2'	54.7'		94°16.3	46°57.2	40°27.8	5°42.9	59°29.2	96°14.8	96°24.2
1	54°07.7	14.7'	15°21.6	-12.2'	54.7'	119°46.2	93°50.6	46°40.6	39°57.4	6°11.8	59°59.5	96°44.7	96°54.5
2	68°41.3	14.6'	15°33.8	-12.1'	54.6'	119°18.6	93°24.9	46°24.2	39°27.1	6°41.0	60°29.8	97°14.5	97°24.7
3	83°14.9	14.6'	15°45.9	-12.0'	54.6'	118°50.9	92°59.2	46°08.0	38°56.8	7°10.3	61°00.1	97°44.3	97°55.0
4	97°48.5	14.5'	15°57.9	-12.0'	54.6'	118°23.3	92°33.4	45°52.0	38°26.5	7°39.7	61°30.4	98°14.1	98°25.2
5	112°22.0	14.5'	16°09.9	-11.9'	54.6'	117°55.6	92°07.7	45°36.1	37°56.2	8°09.2	62°00.7	98°43.9	98°55.5
6	126°55.5	14.4'	S16°21.8	-11.8'	54.6'	117°28.0	91°42.0	45°20.5	37°26.0	8°38.8	62°31.0	99°13.7	99°25.7
7	141°28.9	14.4'	16°33.6	-11.8'	54.6'	117°00.3	91°16.4	45°05.1	36°55.7	9°08.4	63°01.2	99°43.4	99°55.9
8	156°02.3	14.3'	16°45.4	-11.7'	54.6'	116°32.6	90°50.7	44°49.8	36°25.5	9°38.1	63°31.5	100°13.2	100°26.0
9	170°35.6	14.3'	16°57.1	-11.6'	54.5'	116°04.9	90°25.0	44°34.8	35°55.3	10°07.8	64°01.7	100°42.9	100°56.2
10	185°08.9	14.2'	17°08.7	-11.5'	54.5'	115°37.2	89°59.4	44°19.8	35°25.1	10°37.6	64°31.9	101°12.6	101°26.4
11	199°42.2	14.2'	17°20.2	-11.5'	54.5'	115°09.5	89°33.7	44°04.8	34°54.9	11°07.4	65°02.1	101°42.3	101°56.5
12	214°15.4	14.1'	S17°31.6	-11.4'	54.5'	114°41.8	89°08.1	43°49.8	34°24.7	11°37.2	65°32.3	102°12.0	102°26.6
13	228°48.5	14.1'	17°43.0	-11.3'	54.5'	114°14.1	88°42.5	43°34.8	33°54.5	12°07.0	66°02.4	102°41.6	102°56.7
14	243°21.6	14.0'	17°54.3	-11.2'	54.5'	113°46.4	88°16.9	43°19.8	33°24.4	12°36.9	66°32.6	103°11.3	103°26.8
15	257°54.7	14.0'	18°05.5	-11.1'	54.5'	113°18.6	87°51.3	43°04.8	32°54.2	13°06.7	67°02.7	103°40.9	103°56.9
16	272°27.7	13.9'	18°16.7	-11.1'	54.4'	112°50.9	87°25.7	42°50.0	32°24.1	13°36.6	67°32.9	104°10.6	104°27.0
17	287°00.6	13.9'	18°27.7	-11.0'	54.4'	112°23.1	87°00.1	42°35.0	31°54.0	14°06.4	68°03.0	104°40.2	104°57.1
18	301°33.5	13.8'	S18°38.7	-10.9'	54.4'	111°55.4	86°34.6	42°20.0	31°23.9	14°36.3	68°33.1	105°09.8	105°27.1
19	316°06.3	13.8'	18°49.6	-10.8'	54.4'	111°27.6	86°09.1	42°05.0	30°53.8	15°06.2	69°03.2	105°39.4	105°57.1
20	330°39.1	13.7'	19°00.4	-10.7'	54.4'	110°59.9	85°43.5	41°50.0	30°23.7	15°36.1	69°33.3	106°09.0	106°27.2
21	345°11.9	13.7'	19°11.1	-10.6'	54.4'	110°32.1	85°18.0	41°35.0	29°53.7	16°05.9	70°03.3	106°38.5	106°57.2
22	359°44.6	13.6'	19°21.8	-10.6'	54.4'	110°04.3	84°52.5	41°20.0	29°23.6	16°35.8	70°33.4	107°08.1	107°27.2
23	14°17.2	13.6'	19°32.3	-10.5'	54.4'	109°36.6	84°27.1	41°05.0	28°53.6	17°05.7	71°03.4	107°37.6	107°57.2
28 th	SD = 14.9' Mer. pass. 22:01												

Moon (29 th May)						Lunar Distance (objects with largest hourly LD delta)							
Fri	GHA	ν	Dec	d	HP	-Fomalhaut	-Altair	-Antares	+Spica	+Regulus	+Procyon	+Jupiter	+Pollux
0	28°49.8	13.5'	S19°42.8	-10.4'	54.3'	109°08.8	84°01.6	28°23.5	17°35.6	71°33.5	103°31.6	108°07.2	108°27.1
1	43°22.3	13.5'	19°53.2	-10.3'	54.3'	108°41.0	83°36.2	27°53.5	18°05.4	72°03.5	103°59.8	108°36.7	108°57.1
2	57°54.8	13.4'	20°03.5	-10.2'	54.3'	108°13.3	83°10.7	27°23.5	18°35.3	72°33.5	104°28.1	109°06.2	109°27.1
3	72°27.2	13.4'	20°13.7	-10.1'	54.3'	107°45.5	82°45.3	26°53.5	19°05.2	73°03.5	104°56.3	109°35.7	109°57.0
4	86°59.5	13.3'	20°23.8	-10.0'	54.3'	107°17.7	82°19.9	26°23.5	19°35.0	73°33.5	105°24.6	110°05.2	110°26.9
5	101°31.8	13.2'	20°33.8	-9.9'	54.3'	106°49.9	81°54.6	25°53.5	20°04.9	74°03.5	105°52.8	110°34.7	110°56.9
6	116°04.1	13.2'	S20°43.8	-9.8'	54.3'	106°22.1	81°29.2	25°23.6	20°34.7	74°33.5	106°20.9	111°04.1	111°26.8
7	130°36.3	13.1'	20°53.6	-9.8'	54.3'	105°54.3	81°03.9	24°53.6	21°04.6	75°03.4	106°49.1	111°33.6	111°56.7
8	145°08.4	13.1'	21°03.4	-9.7'	54.3'	105°26.6	80°38.6	24°23.7	21°34.4	75°33.4	107°17.3	112°03.0	112°26.5
9	159°40.5	13.0'	21°13.0	-9.6'	54.2'	104°58.8	80°13.3	23°53.7	22°04.3	76°03.3	107°45.4	112°32.5	112°56.4
10	174°12.5	13.0'	21°22.6	-9.5'	54.2'	104°31.0	79°48.0	23°23.8	22°34.1	76°33.2	108°13.5	113°01.9	113°26.3
11	188°44.5	12.9'	21°32.1	-9.4'	54.2'	104°03.2	79°22.8	22°53.9	23°03.9	77°03.1	108°41.6	113°31.3	113°56.1
12	203°16.4	12.9'	S21°41.5	-9.3'	54.2'	103°35.4	78°57.6	22°24.0	23°33.7	77°33.1	109°09.7	114°00.7	114°26.0
13	217°48.3	12.8'	21°50.7	-9.2'	54.2'	103°07.6	78°32.4	21°54.1	24°03.5	78°03.0	109°37.7	114°30.1	114°55.8
14	232°20.1	12.7'	21°59.9	-9.1'	54.2'	102°39.8	78°07.2	21°24.2	24°33.4	78°32.9	110°05.7	114°59.5	115°25.7
15	246°51.8	12.7'	22°09.0	-9.0'	54.2'	102°12.0	77°42.0	20°54.3	25°03.2	79°02.7	110°33.8	115°28.9	115°55.5
16	261°23.5	12.6'	22°18.0	-8.9'	54.2'	101°44.3	77°16.9	20°24.5	25°32.9	79°32.6	111°01.8	115°58.2	116°25.3
17	275°55.1	12.6'	22°26.9	-8.8'	54.2'	101°16.5	76°51.8	19°54.6	26°02.7	80°02.5	111°29.7	116°27.6	116°55.1
18	290°26.7	12.5'	S22°35.7	-8.7'	54.2'	100°48.7	76°26.7	19°24.8	26°32.5	80°32.3	111°57.7	116°56.9	117°24.9
19	304°58.2	12.5'	22°44.3	-8.6'	54.1'	100°20.9	76°01.6	18°54.9	27°02.3	81°02.2	112°25.6	117°26.3	117°54.6
20	319°29.7	12.4'	22°52.9	-8.5'	54.1'	99°53.1	75°36.6	18°25.1	27°32.1	81°32.0	112°53.5	117°55.6	118°24.4
21	334°01.1	12.3'	23°01.4	-8.4'	54.1'	99°25.4	75°11.6	17°55.3	28°01.8	82°01.8	113°21.4	118°24.9	118°54.2
22	348°32.4	12.3'	23°09.8	-8.3'	54.1'	98°57.6	74°46.6	17°25.4	28°31.6	82°31.7	113°49.3	118°54.2	119°23.9
23	3°03.7	12.2'	23°18.0	-8.2'	54.1'	98°29.8	74°21.7	16°55.6	29°01.3	83°01.5	114°17.1	119°23.5	119°53.7
29 th	SD =												