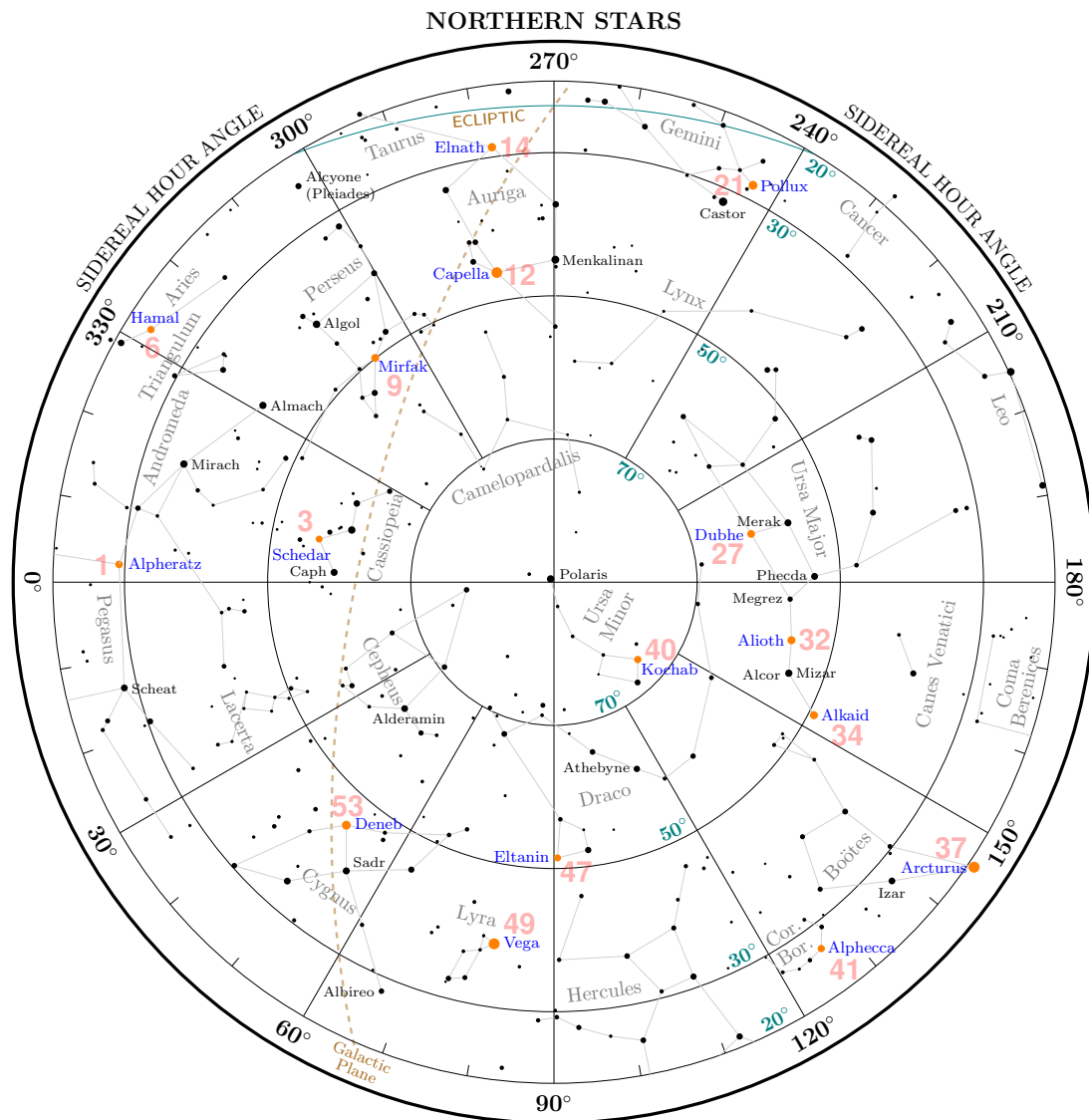


GENERATED USING EPHEM



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Original author: Enno RODEGERDTS
Enhancements: Andrew BAUER

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August 25, 26, 27 (Thu., Fri., Sat.)

Aries			Venus			Mars			Jupiter			Saturn			Stars		
Thu	GHA	GHA	Dec	GHA	Dec	GHA	Dec	GHA	Dec	GHA	Dec	GHA	Dec	SHA	Dec		
0	332°55.0	176°41.4	N11°24.5	227°24.6	N23°16.8	294°35.1	N13°37.1	138°42.5	S03°34.4	Alpheratz	357°44.5	29°09.4					
1	347°57.4	191°40.9	23.4	242°25.3	16.6	309°37.5	37.1	153°44.8	34.5	Ankaa	353°16.5	-42°14.2					
2	2°59.9	206°40.5	22.3	257°26.0	16.5	324°39.9	37.1	168°47.0	34.6	Schedar	349°41.6	56°36.1					
3	18°02.4	221°40.0	•• 21.1	272°26.7	•• 16.4	339°42.3	•• 37.1	183°49.2	•• 34.7	Diphda	348°56.9	-17°55.1					
4	33°04.8	236°39.5	20.0	287°27.4	16.2	354°44.7	37.1	198°51.5	34.8	Achernar	335°27.3	-57°10.3					
5	48°07.3	251°39.0	18.9	302°28.1	16.1	9°47.2	37.1	213°53.7	34.9	Hamal	328°02.0	23°31.1					
6	63°09.8	266°38.5	N11°17.8	317°28.8	N23°15.9	24°49.6	N13°37.1	228°55.9	S03°35.0	Polaris	318°15.3	89°18.6					
7	78°12.2	281°38.0	16.7	332°29.6	15.8	39°52.0	37.1	243°58.2	35.1	Acamar	315°19.1	-40°15.1					
8	93°14.7	296°37.6	15.6	347°30.3	15.7	54°54.4	37.2	259°00.4	35.2	Menkar	314°16.3	4°08.3					
9	108°17.2	311°37.1	•• 14.5	2°31.0	•• 15.5	69°56.8	•• 37.2	274°02.6	•• 35.3	Mirfak	308°42.1	49°54.0					
10	123°19.6	326°36.6	13.3	17°31.7	15.4	84°59.3	37.2	289°04.9	35.4	Aldebaran	290°50.9	16°32.0					
11	138°22.1	341°36.1	12.2	32°32.4	15.2	100°01.7	37.2	304°07.1	35.5	Rigel	281°13.4	-8°11.2					
12	153°24.5	356°35.6	N11°11.1	47°33.1	N23°15.1	115°04.1	N13°37.2	319°09.4	S03°35.6	Capella	280°36.5	46°00.4					
13	168°27.0	11°35.2	10.0	62°33.9	14.9	130°06.5	37.2	334°11.6	35.7	Bellatrix	278°33.5	6°21.6					
14	183°29.5	26°34.7	08.9	77°34.6	14.8	145°08.9	37.2	349°13.8	35.9	Elnath	278°14.3	28°36.9					
15	198°31.9	41°34.2	•• 07.8	92°35.3	•• 14.7	160°11.4	•• 37.2	4°16.1	•• 36.0	Alnilam	275°47.8	-1°11.6					
16	213°34.4	56°33.7	06.6	107°36.0	14.5	175°13.8	37.2	19°18.3	36.1	Betelgeuse	271°02.8	7°24.6					
17	228°36.9	71°33.2	05.5	122°36.7	14.4	190°16.2	37.2	34°20.5	36.2	Canopus	263°57.0	-52°41.9					
18	243°39.3	86°32.8	N11°04.4	137°37.4	N23°14.2	205°18.6	N13°37.2	49°22.8	S03°36.3	Sirius	258°35.0	-16°43.8					
19	258°41.8	101°32.3	03.3	152°38.2	14.1	220°21.1	37.2	64°25.0	36.4	Adhara	255°13.8	-28°59.1					
20	273°44.3	116°31.8	02.2	167°38.9	13.9	235°23.5	37.2	79°27.2	36.5	Procyon	245°01.3	5°11.7					
21	288°46.7	131°31.3	11°01.0	182°39.6	•• 13.8	250°25.9	•• 37.2	94°29.5	•• 36.6	Pollux	243°29.6	27°59.8					
22	303°49.2	146°30.9	10°59.9	197°40.3	13.7	265°28.3	37.2	109°31.7	36.7	Avior	234°19.2	-59°32.7					
23	318°51.7	161°30.4	58.8	212°41.0	13.5	280°30.7	37.2	124°33.9	36.8	Suhail	222°53.8	-43°28.8					
Mer.pass. 01:48			ν -0.5' d -1.1' m -3.8			ν 0.7' d -0.1' m 1.4			ν 2.4' d 0.0' m -2.5			ν 2.2' d -0.1' m 0.9					

Fri	GHA	GHA	Dec	GHA	Dec	GHA	Dec	GHA	Dec								
0	333°54.1	176°29.9	N10°57.7	227°41.7	N23°13.4	295°33.2	N13°37.2	139°36.2	S03°36.9	Denebola	182°35.2	14°30.4					
1	348°56.6	191°29.4	56.6	242°42.5	13.2	310°35.6	37.2	154°38.4	37.0	Gienah	175°53.9	-17°36.4					
2	3°59.0	206°29.0	55.4	257°43.2	13.1	325°38.0	37.2	169°40.6	37.1	Acrux	173°11.4	-63°10.0					
3	19°01.5	221°28.5	•• 54.3	272°43.9	•• 12.9	340°40.4	•• 37.2	184°42.9	•• 37.2	Gacrux	172°02.9	-57°10.9					
4	34°04.0	236°28.0	53.2	287°44.6	12.8	355°42.9	37.2	199°45.1	37.3	Alioth	166°22.1	55°53.9					
5	49°06.4	251°27.5	52.1	302°45.3	12.6	10°45.3	37.2	214°47.3	37.4	Spica	158°32.8	-11°13.3					
6	64°08.9	266°27.1	N10°50.9	317°46.1	N23°12.5	25°47.7	N13°37.2	229°49.6	S03°37.5	Alkaid	153°00.1	-49°15.5					
7	79°11.4	281°26.6	49.8	332°46.8	12.3	40°50.2	37.2	244°51.8	37.6	Hadar	148°50.1	-60°26.0					
8	94°13.8	296°26.1	48.7	347°47.5	12.2	55°52.6	37.2	259°54.0	37.7	Menkent	148°09.3	-36°25.8					
9	109°16.3	311°25.6	•• 47.5	2°48.2	•• 12.0	70°55.0	•• 37.2	274°56.3	•• 37.8	Arcturus	145°57.0	19°07.4					
10	124°18.8	326°25.2	46.4	17°48.9	11.9	85°57.4	37.2	289°58.5	37.9	Rigel Kent.	139°53.7	-60°53.2					
11	139°21.2	341°24.7	45.3	32°49.7	11.7	100°59.9	37.2	305°00.7	38.0	Kochab	137°20.2	74°06.7					
12	154°23.7	356°24.2	N10°44.2	47°50.4	N23°11.6	116°02.3	N13°37.2	320°03.0	S03°38.1	Zuben'ubi	137°06.9	-16°05.4					
13	169°26.2	11°23.8	43.0	62°51.1	11.4	131°04.7	37.2	335°05.2	38.2	Alphecca	126°12.1	26°40.8					
14	184°28.6	26°23.3	41.9	77°51.8	11.3	146°07.2	37.2	350°07.4	38.3	Antares	112°27.8	-26°27.5					
15	199°31.1	41°22.8	•• 40.8	92°52.5	•• 11.1	161°09.6	•• 37.2	5°09.7	•• 38.4	Atria	107°30.6	-69°03.1					
16	214°33.5	56°22.3	39.6	107°53.3	11.0	176°12.0	37.3	20°11.9	38.5	Sabik	102°13.9	-15°44.3					
17	229°36.0	71°21.9	38.5	122°54.0	10.8	191°14.5	37.3	35°14.1	38.6	Shaula	96°23.5	-37°06.7					
18	244°38.5	86°21.4	N10°37.4	137°54.7	N23°10.7	206°16.9	N13°37.3	50°16.3	S03°38.7	Rasalhague	96°07.5	12°33.3					
19	259°40.9	101°20.9	36.2	152°55.4	10.5	221°19.3	37.3	65°18.6	38.8	Eltanin	90°46.5	51°29.6					
20	274°43.4	116°20.5	35.1	167°56.1	10.4	236°21.7	37.3	80°20.8	38.9	Kaus Aust.	83°45.3	-34°22.7					
21	289°45.9	131°20.0	•• 34.0	182°56.9	•• 10.2	251°24.2	•• 37.3	95°23.0	•• 39.0	Vega	80°39.6	38°48.0					
22	304°48.3	146°19.5	32.8	197°57.6	10.1	266°26.6	37.3	110°25.3	39.1	Nunki	75°59.6	-26°16.8					
23	319°50.8	161°19.1	31.7	212°58.3	09.9	281°29.0	37.3	125°27.5	39.2	Altair	62°09.2	8°54.2					
Mer.pass. 01:44			ν -0.5' d -1.1' m -3.8			ν 0.7' d -0.1' m 1.4			ν 2.4' d 0.0' m -2.5			ν 2.2' d -0.1' m 0.9					

Sat	GHA	GHA	Dec	GHA	Dec	GHA	Dec	GHA	Dec			
0	334°53.3	176°18.6	N10°30.6	227°59.0	N23°09.8	296°31.5	N13°37.3	140°29.7	S03°39.3	Aug 25 Thu	SHA	Mer.pass
1	349°55.7	191°18.1	29.4	242°59.8	09.6	311°33.9	37.3	155°32.0	39.4	Venus	203°46.4	12:14
2	4°58.2	206°17.7	28.3	258°00.5	09.5	326°36.3	37.3	170°34.2	39.6	Mars	254°29.6	08:50
3	20°00.6	221°17.2	•• 27.2	273°01.2	•• 09.3	341°38.8	•• 37.3	185°36.4	•• 39.7	Jupiter	321°40.1	04:21
4	35°03.1	236°16.7	26.0	288°01.9	09.2	356°41.2	37.3	200°38.7	39.8	Saturn	165°47.6	14:43
5	50°05.6	251°16.3	24.9	303°02.7	09.0	11°43.6	37.3	215°40.9	39.9			
6	65°08.0	266°15.8	N10°23.8	318°03.4	N23°08.9	26°46.1	N13°37.3	230°43.1	S03°40.0	Aug 26 Fri	SHA	Mer.pass
7	80°10.5	281°15.3	22.6	333°04.1	08.7	41°48.5	37.3	245°45.4	40.1	Venus	202°35.8	12:14
8	95°13.0	296°14.9	21.5	348°04.8	08.5	56°51.0	37.3	260°47.6	40.2	Mars	253°47.6	08:49
9	110°15.4	311°14.4	•• 20.3	3°05.6	•• 08.4	71°53.4	•• 37.3	275°49.8	•• 40.3	Jupiter	321°39.1	04:17
10	125°17.9	326°14.0	19.2	18°06.3	08.2	86°55.8	37.3	290°52.0	40.4	Saturn	165°42.0	14:39
11	140°20.4	341°13.5	18.1	33°07.0	08.1	101°58.3	37.3	305°54.3	40.5			
12	155°22.8	356°13.0	N10°16.9	48°07.7	N23°07.9	117°00.7	N13°37.3	320°56.5	S03°40.6	Aug 27 Sat	SHA	Mer.pass
13	170°25.3	11°12.6	15.8	63°08.5	07.8	132°03.1	37.3	335°58.7	40.7	Venus	201°25.3	12:15
14	185°27.8	26°12.1	14.6	78°09.2	07.6	147°05.6	37.3	351°01.0	40.8	Mars	253°05.8	08:48
15	200°30.2	41°11.6	•• 13.5	93°09.9	•• 07.5	162°08.0	•• 37.3	6°03.2	•• 40.9	Jupiter	321°38.2	04:13
16	215°32.7	56°11.2	12.4	108°10.6	07.3	177°10.5	37.3	21°05.4	41.0	Saturn	165°36.5	14:36
17	230°35.1	71°10.7	11.2	123°11.4	07.1	192°12.9	37.2	36°07.7	41.1			
18	245°37.6	86°10.3	N10°10.1	138°12.1	N23°07.0	207°15.3	N					

h	Sun			Moon			
Thu	GHA	Dec	GHA	ν	Dec	d	HP
0	179°25.4	N10°57.0	235°01.2	8.2'	N21°48.0	-4.7'	57.2'
1	194°25.6	56.2	249°28.5	8.2'	21°43.3	-4.8'	57.3'
2	209°25.7	55.3	263°55.7	8.2'	21°38.5	-4.9'	57.3'
3	224°25.9	· · 54.4	278°22.9	8.2'	21°33.6	-5.0'	57.3'
4	239°26.1	53.6	292°50.1	8.2'	21°28.6	-5.2'	57.4'
5	254°26.2	52.7	307°17.3	8.2'	21°23.4	-5.3'	57.4'
6	269°26.4	N10°51.9	321°44.5	8.2'	N21°18.1	-5.4'	57.4'
7	284°26.6	51.0	336°11.7	8.2'	21°12.7	-5.6'	57.5'
8	299°26.7	50.1	350°38.9	8.2'	21°07.1	-5.7'	57.5'
9	314°26.9	· · 49.3	5°06.1	8.2'	21°01.4	-5.8'	57.6'
10	329°27.1	48.4	19°33.2	8.2'	20°55.6	-5.9'	57.6'
11	344°27.3	47.5	34°00.4	8.2'	20°49.6	-6.1'	57.6'
12	359°27.4	N10°46.7	48°27.6	8.2'	N20°43.6	-6.2'	57.7'
13	14°27.6	45.8	62°54.8	8.2'	20°37.4	-6.3'	57.7'
14	29°27.8	45.0	77°21.9	8.2'	20°31.0	-6.5'	57.7'
15	44°27.9	· · 44.1	91°49.1	8.2'	20°24.6	-6.6'	57.8'
16	59°28.1	43.2	106°16.3	8.2'	20°18.0	-6.7'	57.8'
17	74°28.3	42.4	120°43.4	8.2'	20°11.3	-6.8'	57.9'
18	89°28.5	N10°41.5	135°10.6	8.2'	N20°04.4	-7.0'	57.9'
19	104°28.6	40.6	149°37.8	8.2'	19°57.5	-7.1'	57.9'
20	119°28.8	39.8	164°05.0	8.2'	19°50.4	-7.2'	58.0'
21	134°29.0	· · 38.9	178°32.2	8.2'	19°43.1	-7.3'	58.0'
22	149°29.2	38.1	192°59.4	8.2'	19°35.8	-7.5'	58.0'
23	164°29.3	37.2	207°26.6	8.2'	19°28.3	-7.6'	58.1'
SD = 15.8'			SD = 15.6'				

Fri	GHA	Dec	GHA	ν	Dec	d	HP
0	179°29.5	N10°36.3	221°53.8	8.2'	N19°20.7	-7.7'	58.1'
1	194°29.7	35.5	236°21.0	8.2'	19°13.0	-7.8'	58.2'
2	209°29.8	34.6	250°48.2	8.2'	19°05.2	-8.0'	58.2'
3	224°30.0	· · 33.7	265°15.4	8.2'	18°57.2	-8.1'	58.2'
4	239°30.2	32.9	279°42.6	8.2'	18°49.2	-8.2'	58.3'
5	254°30.4	32.0	294°09.9	8.3'	18°41.0	-8.3'	58.3'
6	269°30.5	N10°31.1	308°37.1	8.3'	N18°32.6	-8.4'	58.3'
7	284°30.7	30.3	323°04.4	8.3'	18°24.2	-8.6'	58.4'
8	299°30.9	29.4	337°31.7	8.3'	18°15.6	-8.7'	58.4'
9	314°31.1	· · 28.5	351°59.0	8.3'	18°07.0	-8.8'	58.5'
10	329°31.2	27.7	6°26.3	8.3'	17°58.2	-8.9'	58.5'
11	344°31.4	26.8	20°53.6	8.3'	17°49.3	-9.0'	58.5'
12	359°31.6	N10°25.9	35°20.9	8.3'	N17°40.2	-9.1'	58.6'
13	14°31.8	25.0	49°48.2	8.3'	17°31.1	-9.3'	58.6'
14	29°31.9	24.2	64°15.6	8.4'	17°21.8	-9.4'	58.6'
15	44°32.1	· · 23.3	78°42.9	8.4'	17°12.5	-9.5'	58.7'
16	59°32.3	22.4	93°10.3	8.4'	17°03.0	-9.6'	58.7'
17	74°32.5	21.6	107°37.7	8.4'	16°53.4	-9.7'	58.7'
18	89°32.6	N10°20.7	122°05.1	8.4'	N16°43.7	-9.8'	58.8'
19	104°32.8	19.8	136°32.5	8.4'	16°33.8	-9.9'	58.8'
20	119°33.0	19.0	150°59.9	8.4'	16°23.9	-10.0'	58.9'
21	134°33.2	· · 18.1	165°27.4	8.5'	16°13.9	-10.1'	58.9'
22	149°33.3	17.2	179°54.8	8.5'	16°03.7	-10.3'	58.9'
23	164°33.5	16.3	194°22.3	8.5'	15°53.5	-10.4'	59.0'
SD = 15.8'			SD = 15.9'				

Sat	GHA	Dec	GHA	ν	Dec	d	HP
0	179°33.7	N10°15.5	208°49.8	8.5'	N15°43.1	-10.5'	59.0'
1	194°33.9	14.6	223°17.3	8.5'	15°32.6	-10.6'	59.0'
2	209°34.1	13.7	237°44.8	8.5'	15°22.1	-10.7'	59.1'
3	224°34.2	· · 12.9	252°12.4	8.6'	15°11.4	-10.8'	59.1'
4	239°34.4	12.0	266°39.9	8.6'	15°00.6	-10.9'	59.1'
5	254°34.6	11.1	281°07.5	8.6'	14°49.7	-11.0'	59.2'
6	269°34.8	N10°10.2	295°35.1	8.6'	N14°38.8	-11.1'	59.2'
7	284°34.9	09.4	310°02.7	8.6'	14°27.7	-11.2'	59.2'
8	299°35.1	08.5	324°30.3	8.6'	14°16.5	-11.3'	59.3'
9	314°35.3	· · 07.6	338°58.0	8.7'	14°05.2	-11.4'	59.3'
10	329°35.5	06.7	353°25.7	8.7'	13°53.9	-11.5'	59.3'
11	344°35.7	05.9	7°53.3	8.7'	13°42.4	-11.6'	59.4'
12	359°35.8	N10°05.0	22°21.0	8.7'	N13°30.8	-11.7'	59.4'
13	14°36.0	04.1	36°48.7	8.7'	13°19.2	-11.7'	59.4'
14	29°36.2	03.2	51°16.5	8.7'	13°07.4	-11.8'	59.5'
15	44°36.4	· · 02.4	65°44.2	8.8'	12°55.6	-11.9'	59.5'
16	59°36.6	01.5	80°12.0	8.8'	12°43.7	-12.0'	59.5'
17	74°36.7	10°00.6	94°39.7	8.8'	12°31.7	-12.1'	59.6'
18	89°36.9	N09°59.7	109°07.5	8.8'	N12°19.6	-12.2'	59.6'
19	104°37.1	58.8	123°35.3	8.8'	12°07.4	-12.3'	59.6'
20	119°37.3	58.0	138°03.2	8.8'	11°55.1	-12.3'	59.6'
21	134°37.5	· · 57.1	152°31.0	8.9'	11°42.8	-12.4'	59.7'
22	149°37.6	56.2	166°58.9	8.9'	11°30.4	-12.5'	59.7'
23	164°37.8	55.3	181°26.7	8.9'	11°17.9	-12.6'	59.7'
SD = 15.8'			SD = 16.1'				

Lat.	Twilight		Sunrise	Sunset	Twilight	
	Naut.	Civil			Civil	Naut.
N 72°	—:—	01:35	03:28	20:31	22:19	—:—
N 70°	—:—	02:20	03:47	20:13	21:38	—:—
68°	—:—	02:49	04:02	19:59	21:10	—:—
66°	01:22	03:11	04:14	19:48	20:50	22:33
64°	02:02	03:27	04:24	19:38	20:34	21:56
62°	02:29	03:41	04:32	19:30	20:20	21:31
60°	02:49	03:53	04:40	19:23	20:09	21:12
N 58°	03:05	04:02	04:46	19:16	20:00	20:56
56°	03:18	04:11	04:52	19:11	19:51	20:43
54°	03:30	04:18	04:57	19:06	19:44	20:32
52°	03:40	04:25	05:01	19:01	19:38	20:22
50°	03:48	04:31	05:05	18:57	19:32	20:14
45°	04:06	04:43	05:14	18:49	19:19	19:57
N 40°	04:20	04:53	05:22	18:41	19:10	19:43
35°	04:31	05:02	05:28	18:35	19:01	19:32
30°	04:40	05:09	05:33	18:30	18:55	19:24
20°	04:54	05:20	05:43	18:21	18:43	19:10
N 10°	05:05	05:30	05:51	18:13	18:34	18:59
0°	05:13	05:38	05:59	18:05	18:26	18:51
S 10°	05:20	05:45	06:06	17:58	18:19	18:44
20°	05:26	05:52	06:14	17:50	18:13	18:38
30°	05:31	05:58	06:23	17:42	18:06	18:34
35°	05:33	06:02	06:28	17:37	18:02	18:32
40°	05:34	06:06	06:33	17:31	17:58	18:30
45°	05:36	06:10	06:40	17:25	17:54	18:29
S 50°	05:37	06:15	06:48	17:17	17:50	18:27
52°	05:38	06:17	06:51	17:13	17:48	18:27
54°	05:38	06:19	06:55	17:09	17:46	18:27
56°	05:38	06:21	07:00	17:05	17:43	18:26
58°	05:39	06:24	07:04	17:00	17:41	18:26
S 60°	05:39	06:27	07:10	16:55	17:38	18:26

Lat.	Moonrise			Moonset		
	Thu	Fri	Sat	Thu	Fri	Sat
N 72°	□	□	00:10	□	20:11	19:28
N 70°	22:04	· ·	00:49	20:21	19:29	19:08
68°	23:10	· ·	01:16	19:14	19:01	18:52
66°	23:45	· ·	01:37	18:38	18:40	18:39
64°	· ·	00:11	01:53	18:12	18:22	18:28
62°	· ·	00:31	02:06	17:51	18:08	18:19
60°	· ·	00:47	02:18	17:34	17:56	18:11
N 58°	· ·	01:00	02:28	17:20	17:45	18:04
56°	· ·	01:12	02:36	17:08	17:36	17:58
54°	00:08	01:22	02:44	16:58	17:28	17:52
52°	00:19	01:31	02:50	16:48	17:20	17:47
50°	00:28	01:39	02:56	16:40	17:14	17:43
45°	00:49	01:57	03:10	16:21	16:59	17:32
N 40°	01:05	02:11	03:20	16:07	16:47	17:24
35°	01:19	02:22	03:29	15:54	16:37	17:17
30°	01:31	02:33	03:37	15:43	16:28	17:10
20°	01:51	02:50	03:51	15:24	16:13	16:59
N 10°	02:09	03:06	04:03	15:07	15:59	16:49
0°	02:26	03:20	04:14	14:52	15:46	16:40
S 10°	02:42	03:35	04:26	14:36	15:33	16:31
20°	03:00	03:50	04:38	14:19	15:19	16:21
30°	03:21	04:07	04:51	14:00	15:03	16:09
35°	03:32	04:18	04:59	13:49	14:54	16:02
40°	03:46	04:29	05:08	13:35	14:43	15:54
45°	04:02	04:43	05:18	13:20	14:31	15:45
S 50°	04:22	04:59	05:31	13:01	14:15	15:34
52°	04:31	05:07	05:36	12:52	14:08	15:29
54°	04:42	05:16	05:43	12:42	14:00	15:24
56°	04:54	05:25	05:50	12:30	13:51	15:17
58°	05:08	05:36	05:58	12:17	13:40	15:10
S 60°	05:24	05:49	06:07	12:01	13:29	15:02

Day	Sun		Mer. Pass hh:mm	Moon		Age
	Eqn. of Time 00 ^h mm:ss	12 ^h mm:ss		Upper hh:mm	Lower hh:mm	
25	02:18	02:10	12:02	08:39	21:06	26(21%)
26	02:02	01:54	12:02	09:33	22:00	27(13%)
27	01:45	01:37	12:02	10:27	22:54	28(6%)