

Sat Jun 1, 2019 UTC

UTC	−Venus Lunar Dist.	+Formalhaut Lunar Dist.	+Saturn Lunar Dist.	+Altair Lunar Dist.	+Achernar Lunar Dist.
0	10°27.2′	66°05.0′	110°32.9′	99°32.7′	68°35.6′
1	9°59.3′	66°35.5′	111°05.3′	100°00.4′	68°51.1′
2	9°31.5′	67°06.2′	111°37.8′	100°28.2′	69°06.7′
3	9°03.8′	67°36.8′	112°10.3′	100°56.0′	69°22.3′
4	8°36.3′	68°07.5′	112°42.9′	101°23.7′	69°38.1′
5	8°08.9′	68°38.3′	113°15.5′	101°51.5′	69°54.0′
6	7°41.8′	69°09.1′	113°48.1′	102°19.3′	70°10.0′
7	7°15.0′	69°39.9′	114°20.7′	102°47.2′	70°26.1′
8	6°48.5′	70°10.8′	114°53.4′	103°15.0′	70°42.3′
9	6°22.3′	70°41.7′	115°26.2′	103°42.8′	70°58.6′
10	5°56.7′	71°12.7′	115°58.9′	104°10.7′	71°15.0′
11	5°31.8′	71°43.7′	116°31.7′	104°38.5′	71°31.4′
12	–	72°14.8′	117°04.6′	105°06.4′	71°48.0′
13	–	72°45.9′	117°37.4′	105°34.3′	72°04.7′
14	–	73°17.0′	118°10.3′	106°02.2′	72°21.5′
15	–	73°48.2′	118°43.3′	106°30.1′	72°38.3′
16	–	74°19.4′	119°16.2′	106°57.9′	72°55.3′
17	–	74°50.7′	119°49.3′	107°25.8′	73°12.3′
18	–	75°22.0′	120°22.3′	107°53.7′	73°29.4′
19	–	75°53.4′	120°55.4′	108°21.6′	73°46.6′
20	–	76°24.8′	121°28.5′	108°49.5′	74°03.9′
21	–	76°56.2′	122°01.6′	109°17.4′	74°21.3′
22	–	77°27.7′	122°34.8′	109°45.3′	74°38.8′
23	–	77°59.2′	123°08.0′	110°13.2′	74°56.3′

Sun Jun 2, 2019 UTC

UTC	+Formalhaut Lunar Dist.	+Altair Lunar Dist.
0	78°30.8′	110°41.0′
1	79°02.3′	111°08.9′
2	79°34.0′	111°36.8′
3	80°05.7′	112°04.6′
4	80°37.4′	112°32.5′
5	81°09.1′	113°00.3′
6	81°40.9′	113°28.1′
7	82°12.7′	113°55.9′
8	82°44.6′	114°23.7′
9	83°16.5′	114°51.5′
10	83°48.4′	115°19.3′
11	84°20.4′	115°47.0′
12	84°52.4′	116°14.7′
13	85°24.4′	116°42.4′
14	85°56.5′	117°10.0′
15	86°28.6′	117°37.7′
16	87°00.7′	118°05.3′
17	87°32.9′	118°32.8′
18	88°05.1′	119°00.4′
19	88°37.3′	119°27.9′
20	89°09.6′	119°55.4′
21	89°41.9′	120°22.8′
22	90°14.2′	120°50.2′
23	90°46.6′	121°17.5′

Wed Jun 5, 2019 UTC

UTC	–Mars Lunar Dist.	–Pollux Lunar Dist.	–Regulus Lunar Dist.	–Spica Lunar Dist.	–Procyon Lunar Dist.	–Arcturus Lunar Dist.
0	8°36.9'	20°31.0'	55°36.9'	109°32.8'	25°53.5'	107°44.6'
1	8°03.9'	19°57.6'	55°01.8'	108°57.9'	25°27.2'	107°13.2'
2	7°31.0'	19°24.2'	54°26.6'	108°23.0'	25°01.1'	106°41.7'
3	6°58.2'	18°50.9'	53°51.4'	107°48.1'	24°35.5'	106°10.3'
4	6°25.5'	18°17.7'	53°16.3'	107°13.1'	24°10.1'	105°38.8'
5	5°52.9'	17°44.6'	52°41.0'	106°38.1'	23°45.2'	105°07.2'
6	5°20.6'	17°11.6'	52°05.8'	106°03.2'	23°20.7'	104°35.6'
7	4°48.6'	16°38.8'	51°30.6'	105°28.1'	22°56.6'	104°04.0'
8	4°17.0'	16°06.1'	50°55.4'	104°53.1'	22°32.9'	103°32.4'
9	–	15°33.6'	50°20.1'	104°18.1'	22°09.8'	103°00.7'
10	–	15°01.3'	49°44.8'	103°43.0'	21°47.1'	102°29.0'
11	–	14°29.2'	49°09.5'	103°07.9'	21°25.0'	101°57.2'
12	–	13°57.4'	48°34.2'	102°32.8'	21°03.4'	101°25.4'
13	–	13°25.8'	47°58.9'	101°57.7'	20°42.5'	100°53.6'
14	–	12°54.5'	47°23.6'	101°22.6'	20°22.1'	100°21.8'
15	–	12°23.6'	46°48.2'	100°47.4'	20°02.4'	99°50.0'
16	–	11°53.1'	46°12.9'	100°12.3'	19°43.5'	99°18.1'
17	–	11°23.1'	45°37.5'	99°37.1'	19°25.2'	98°46.2'
18	–	10°53.6'	45°02.1'	99°01.9'	–	98°14.3'
19	–	10°24.7'	44°26.7'	98°26.7'	–	97°42.3'
20	–	9°56.4'	43°51.3'	97°51.5'	–	97°10.3'
21	–	–	43°15.9'	97°16.3'	–	96°38.3'
22	4°13.5'	–	42°40.5'	96°41.0'	–	96°06.3'
23	4°45.3'	–	42°05.0'	96°05.8'	–	95°34.3'

Thu Jun 6, 2019 UTC

UTC	+Mars Lunar Dist.	–Regulus Lunar Dist.	+Betelgeuse Lunar Dist.	–Spica Lunar Dist.	–Arcturus Lunar Dist.	–Hadar Lunar Dist.	–Rigel Kentaurus Lunar Dist.
0	5°17.5'	41°29.6'	25°08.9'	95°30.5'	95°02.3'	114°39.3'	119°00.3'
1	5°50.0'	40°54.1'	25°38.0'	94°55.2'	94°30.2'	114°18.9'	118°40.3'
2	6°22.8'	40°18.7'	26°07.4'	94°19.9'	93°58.1'	113°58.5'	118°20.1'
3	6°55.9'	39°43.2'	26°36.9'	93°44.6'	93°26.0'	113°37.9'	117°59.8'
4	7°29.0'	39°07.8'	27°06.8'	93°09.3'	92°53.9'	113°17.2'	117°39.3'
5	8°02.3'	38°32.3'	27°36.8'	92°34.0'	92°21.8'	112°56.3'	117°18.8'
6	8°35.7'	37°56.8'	28°07.1'	91°58.7'	91°49.7'	112°35.4'	116°58.0'
7	9°09.2'	37°21.3'	28°37.5'	91°23.3'	91°17.6'	112°14.4'	116°37.2'
8	9°42.7'	36°45.8'	29°08.1'	90°48.0'	90°45.4'	111°53.2'	116°16.2'
9	10°16.3'	36°10.3'	29°39.0'	90°12.6'	90°13.3'	111°32.0'	115°55.1'
10	10°50.0'	35°34.8'	30°09.9'	89°37.2'	89°41.1'	111°10.7'	115°33.9'
11	11°23.7'	34°59.3'	30°41.1'	89°01.9'	89°08.9'	110°49.2'	115°12.6'
12	11°57.5'	34°23.8'	31°12.4'	88°26.5'	88°36.7'	110°27.7'	114°51.1'
13	12°31.3'	33°48.3'	31°43.8'	87°51.1'	88°04.6'	110°06.1'	114°29.6'
14	13°05.1'	33°12.7'	32°15.4'	87°15.7'	87°32.4'	109°44.4'	114°07.9'
15	13°38.9'	32°37.2'	32°47.1'	86°40.3'	87°00.2'	109°22.6'	113°46.1'
16	14°12.8'	32°01.7'	33°18.9'	86°04.9'	86°28.0'	109°00.7'	113°24.2'
17	14°46.7'	31°26.2'	33°50.9'	85°29.5'	85°55.8'	108°38.8'	113°02.2'
18	15°20.6'	30°50.7'	34°23.0'	84°54.0'	85°23.6'	108°16.7'	112°40.2'
19	15°54.6'	30°15.1'	34°55.1'	84°18.6'	84°51.4'	107°54.6'	112°18.0'
20	16°28.5'	29°39.6'	35°27.4'	83°43.2'	84°19.2'	107°32.4'	111°55.7'
21	17°02.5'	29°04.1'	35°59.8'	83°07.8'	83°47.0'	107°10.1'	111°33.3'
22	17°36.5'	28°28.6'	36°32.3'	82°32.3'	83°14.8'	106°47.8'	111°10.8'
23	18°10.5'	27°53.1'	37°04.8'	81°56.9'	82°42.6'	106°25.3'	110°48.3'

Fri Jun 7, 2019 UTC

UTC	+Sun Lunar Dist.	-Regulus Lunar Dist.	+Mars Lunar Dist.	+Pollux Lunar Dist.	-Spica Lunar Dist.	-Arcturus Lunar Dist.	-Hadar Lunar Dist.
0	46°50.0'	27°17.6'	18°44.5'	10°43.9'	81°21.4'	82°10.5'	106°02.9'
1	47°23.3'	26°42.1'	19°18.5'	11°13.4'	80°46.0'	81°38.3'	105°40.3'
2	47°56.5'	26°06.6'	19°52.5'	11°43.5'	80°10.5'	81°06.1'	105°17.7'
3	48°29.8'	25°31.1'	20°26.6'	12°14.1'	79°35.1'	80°34.0'	104°55.0'
4	49°03.1'	24°55.7'	21°00.6'	12°45.2'	78°59.6'	80°01.8'	104°32.3'
5	49°36.4'	24°20.2'	21°34.7'	13°16.6'	78°24.2'	79°29.7'	104°09.5'
6	50°09.7'	23°44.7'	22°08.8'	13°48.4'	77°48.7'	78°57.6'	103°46.6'
7	50°43.0'	23°09.3'	22°42.8'	14°20.5'	77°13.3'	78°25.5'	103°23.7'
8	51°16.3'	22°33.9'	23°16.9'	14°52.9'	76°37.8'	77°53.4'	103°00.7'
9	51°49.6'	21°58.5'	23°51.0'	15°25.5'	76°02.3'	77°21.3'	102°37.7'
10	52°22.9'	21°23.1'	24°25.1'	15°58.3'	75°26.9'	76°49.2'	102°14.6'
11	52°56.2'	20°47.7'	24°59.2'	16°31.4'	74°51.4'	76°17.1'	101°51.5'
12	53°29.5'	20°12.3'	25°33.3'	17°04.6'	74°16.0'	75°45.1'	101°28.4'
13	54°02.8'	19°37.0'	26°07.4'	17°38.0'	73°40.5'	75°13.1'	101°05.2'
14	54°36.1'	19°01.7'	26°41.5'	18°11.5'	73°05.1'	74°41.1'	100°41.9'
15	55°09.5'	18°26.4'	27°15.6'	18°45.1'	72°29.6'	74°09.1'	100°18.6'
16	55°42.8'	17°51.2'	27°49.7'	19°18.9'	71°54.2'	73°37.1'	99°55.3'
17	56°16.1'	17°16.0'	28°23.8'	19°52.8'	71°18.7'	73°05.2'	99°31.9'
18	56°49.4'	16°40.8'	28°57.9'	20°26.8'	70°43.3'	72°33.3'	99°08.5'
19	57°22.7'	16°05.7'	29°32.0'	21°00.9'	70°07.8'	72°01.4'	98°45.1'
20	57°56.0'	15°30.6'	30°06.2'	21°35.0'	69°32.4'	71°29.5'	98°21.6'
21	58°29.3'	14°55.6'	30°40.3'	22°09.3'	68°57.0'	70°57.7'	97°58.2'
22	59°02.7'	14°20.6'	31°14.4'	22°43.6'	68°21.5'	70°25.9'	97°34.6'
23	59°36.0'	13°45.7'	31°48.5'	23°18.0'	67°46.1'	69°54.1'	97°11.1'

Sat Jun 8, 2019 UTC

UTC	+Sun Lunar Dist.	-Regulus Lunar Dist.	+Pollux Lunar Dist.	+Mars Lunar Dist.	-Spica Lunar Dist.	+Procyon Lunar Dist.	-Arcturus Lunar Dist.
0	60°09.3'	13°10.9'	23°52.4'	32°22.6'	67°10.7'	27°52.3'	69°22.4'
1	60°42.6'	12°36.2'	24°26.9'	32°56.7'	66°35.3'	28°20.7'	68°50.6'
2	61°15.9'	12°01.6'	25°01.5'	33°30.8'	65°59.9'	28°49.3'	68°19.0'
3	61°49.2'	11°27.1'	25°36.1'	34°04.9'	65°24.5'	29°18.1'	67°47.3'
4	62°22.5'	10°52.7'	26°10.8'	34°39.1'	64°49.1'	29°47.2'	67°15.7'
5	62°55.8'	10°18.5'	26°45.5'	35°13.2'	64°13.7'	30°16.4'	66°44.1'
6	63°29.1'	9°44.4'	27°20.2'	35°47.3'	63°38.3'	30°45.9'	66°12.6'
7	64°02.4'	9°10.6'	27°54.9'	36°21.4'	63°02.9'	31°15.6'	65°41.1'
8	64°35.7'	8°37.0'	28°29.7'	36°55.5'	62°27.6'	31°45.4'	65°09.6'
9	65°09.0'	8°03.8'	29°04.6'	37°29.6'	61°52.2'	32°15.4'	64°38.2'
10	65°42.3'	7°30.9'	29°39.4'	38°03.7'	61°16.8'	32°45.6'	64°06.8'
11	66°15.6'	6°58.5'	30°14.3'	38°37.7'	60°41.5'	33°16.0'	63°35.5'
12	66°48.8'	6°26.7'	30°49.2'	39°11.8'	60°06.2'	33°46.5'	63°04.2'
13	67°22.1'	–	31°24.1'	39°45.9'	59°30.8'	34°17.1'	62°33.0'
14	67°55.4'	–	31°59.1'	40°20.0'	58°55.5'	34°47.9'	62°01.8'
15	68°28.6'	–	32°34.1'	40°54.1'	58°20.2'	35°18.8'	61°30.7'
16	69°01.9'	–	33°09.1'	41°28.1'	57°44.9'	35°49.8'	60°59.6'
17	69°35.2'	–	33°44.1'	42°02.2'	57°09.6'	36°21.0'	60°28.6'
18	70°08.4'	–	34°19.1'	42°36.3'	56°34.4'	36°52.3'	59°57.6'
19	70°41.7'	–	34°54.1'	43°10.3'	55°59.1'	37°23.6'	59°26.7'
20	71°14.9'	–	35°29.1'	43°44.4'	55°23.9'	37°55.1'	58°55.9'
21	71°48.1'	–	36°04.2'	44°18.4'	54°48.6'	38°26.7'	58°25.1'
22	72°21.4'	–	36°39.3'	44°52.4'	54°13.4'	38°58.4'	57°54.4'
23	72°54.6'	–	37°14.3'	45°26.5'	53°38.2'	39°30.1'	57°23.7'

## Sun Jun 9, 2019 UTC

UTC	+Sun Lunar Dist.	+Pollux Lunar Dist.	-Spica Lunar Dist.	+Mars Lunar Dist.	+Procyon Lunar Dist.	-Antares Lunar Dist.	-Jupiter Lunar Dist.
0	73°27.8'	37°49.4'	53°03.0'	46°00.5'	40°02.0'	98°56.6'	108°16.5'
1	74°01.0'	38°24.5'	52°27.8'	46°34.5'	40°33.9'	98°21.3'	107°40.6'
2	74°34.2'	38°59.6'	51°52.7'	47°08.5'	41°05.9'	97°46.0'	107°04.7'
3	75°07.4'	39°34.7'	51°17.5'	47°42.5'	41°38.0'	97°10.7'	106°28.8'
4	75°40.6'	40°09.8'	50°42.4'	48°16.5'	42°10.1'	96°35.4'	105°52.9'
5	76°13.7'	40°44.9'	50°07.2'	48°50.5'	42°42.4'	96°00.2'	105°17.0'
6	76°46.9'	41°20.1'	49°32.1'	49°24.5'	43°14.6'	95°24.9'	104°41.1'
7	77°20.1'	41°55.2'	48°57.0'	49°58.4'	43°47.0'	94°49.6'	104°05.2'
8	77°53.2'	42°30.3'	48°22.0'	50°32.4'	44°19.4'	94°14.4'	103°29.3'
9	78°26.4'	43°05.4'	47°46.9'	51°06.4'	44°51.8'	93°39.2'	102°53.5'
10	78°59.5'	43°40.6'	47°11.9'	51°40.3'	45°24.3'	93°03.9'	102°17.6'
11	79°32.7'	44°15.7'	46°36.9'	52°14.3'	45°56.9'	92°28.7'	101°41.7'
12	80°05.8'	44°50.8'	46°01.9'	52°48.2'	46°29.5'	91°53.5'	101°05.9'
13	80°38.9'	45°25.9'	45°26.9'	53°22.1'	47°02.2'	91°18.3'	100°30.1'
14	81°12.0'	46°01.1'	44°51.9'	53°56.0'	47°34.9'	90°43.1'	99°54.2'
15	81°45.1'	46°36.2'	44°17.0'	54°29.9'	48°07.6'	90°07.9'	99°18.4'
16	82°18.2'	47°11.3'	43°42.1'	55°03.8'	48°40.4'	89°32.7'	98°42.6'
17	82°51.3'	47°46.4'	43°07.2'	55°37.7'	49°13.2'	88°57.5'	98°06.8'
18	83°24.3'	48°21.6'	42°32.3'	56°11.6'	49°46.1'	88°22.3'	97°31.0'
19	83°57.4'	48°56.7'	41°57.4'	56°45.5'	50°19.0'	87°47.2'	96°55.3'
20	84°30.4'	49°31.8'	41°22.6'	57°19.3'	50°51.9'	87°12.0'	96°19.5'
21	85°03.5'	50°06.9'	40°47.8'	57°53.2'	51°24.9'	86°36.9'	95°43.7'
22	85°36.5'	50°42.0'	40°13.0'	58°27.0'	51°57.9'	86°01.8'	95°08.0'
23	86°09.5'	51°17.1'	39°38.3'	59°00.9'	52°30.9'	85°26.7'	94°32.2'

## Mon Jun 10, 2019 UTC

UTC	+Sun Lunar Dist.	+Regulus Lunar Dist.	-Spica Lunar Dist.	+Pollux Lunar Dist.	+Mars Lunar Dist.	+Procyon Lunar Dist.	-Antares Lunar Dist.
0	86°42.5'	15°56.9'	39°03.6'	51°52.2'	59°34.7'	53°03.9'	84°51.6'
1	87°15.5'	16°31.7'	38°28.9'	52°27.3'	60°08.5'	53°37.0'	84°16.5'
2	87°48.5'	17°06.5'	37°54.2'	53°02.4'	60°42.3'	54°10.1'	83°41.4'
3	88°21.5'	17°41.3'	37°19.6'	53°37.5'	61°16.1'	54°43.2'	83°06.3'
4	88°54.5'	18°16.2'	36°45.0'	54°12.5'	61°49.9'	55°16.4'	82°31.3'
5	89°27.5'	18°51.1'	36°10.4'	54°47.6'	62°23.6'	55°49.5'	81°56.2'
6	90°00.4'	19°26.0'	35°35.9'	55°22.7'	62°57.4'	56°22.7'	81°21.2'
7	90°33.3'	20°00.9'	35°01.4'	55°57.7'	63°31.2'	56°55.9'	80°46.2'
8	91°06.3'	20°35.8'	34°26.9'	56°32.8'	64°04.9'	57°29.1'	80°11.2'
9	91°39.2'	21°10.8'	33°52.5'	57°07.8'	64°38.6'	58°02.4'	79°36.2'
10	92°12.1'	21°45.7'	33°18.1'	57°42.8'	65°12.3'	58°35.6'	79°01.2'
11	92°45.0'	22°20.7'	32°43.7'	58°17.9'	65°46.0'	59°08.9'	78°26.2'
12	93°17.9'	22°55.6'	32°09.4'	58°52.9'	66°19.7'	59°42.2'	77°51.2'
13	93°50.7'	23°30.6'	31°35.2'	59°27.9'	66°53.4'	60°15.4'	77°16.3'
14	94°23.6'	24°05.6'	31°00.9'	60°02.9'	67°27.1'	60°48.7'	76°41.4'
15	94°56.4'	24°40.6'	30°26.8'	60°37.9'	68°00.7'	61°22.1'	76°06.4'
16	95°29.3'	25°15.5'	29°52.7'	61°12.9'	68°34.4'	61°55.4'	75°31.5'
17	96°02.1'	25°50.5'	29°18.6'	61°47.9'	69°08.0'	62°28.7'	74°56.6'
18	96°34.9'	26°25.5'	28°44.6'	62°22.8'	69°41.7'	63°02.0'	74°21.8'
19	97°07.7'	27°00.4'	28°10.6'	62°57.8'	70°15.3'	63°35.4'	73°46.9'
20	97°40.5'	27°35.4'	27°36.7'	63°32.7'	70°48.9'	64°08.7'	73°12.0'
21	98°13.3'	28°10.4'	27°02.9'	64°07.7'	71°22.4'	64°42.1'	72°37.2'
22	98°46.0'	28°45.3'	26°29.1'	64°42.6'	71°56.0'	65°15.5'	72°02.4'
23	99°18.8'	29°20.3'	25°55.4'	65°17.5'	72°29.6'	65°48.8'	71°27.6'

Tue Jun 11, 2019 UTC

UTC	+Sun Lunar Dist.	+Regulus Lunar Dist.	-Spica Lunar Dist.	+Pollux Lunar Dist.	-Antares Lunar Dist.	-Jupiter Lunar Dist.	+Procyon Lunar Dist.
0	99°51.5'	29°55.2'	25°21.8'	65°52.4'	70°52.8'	79°42.4'	66°22.2'
1	100°24.3'	30°30.2'	24°48.2'	66°27.3'	70°18.0'	79°07.0'	66°55.6'
2	100°57.0'	31°05.1'	24°14.8'	67°02.2'	69°43.2'	78°31.5'	67°29.0'
3	101°29.7'	31°40.0'	23°41.4'	67°37.1'	69°08.5'	77°56.1'	68°02.4'
4	102°02.4'	32°15.0'	23°08.1'	68°12.0'	68°33.8'	77°20.7'	68°35.7'
5	102°35.0'	32°49.9'	22°34.9'	68°46.8'	67°59.1'	76°45.3'	69°09.1'
6	103°07.7'	33°24.8'	22°01.8'	69°21.7'	67°24.4'	76°10.0'	69°42.5'
7	103°40.3'	33°59.7'	21°28.9'	69°56.5'	66°49.7'	75°34.6'	70°15.9'
8	104°13.0'	34°34.6'	20°56.0'	70°31.3'	66°15.0'	74°59.3'	70°49.3'
9	104°45.6'	35°09.5'	20°23.3'	71°06.1'	65°40.4'	74°23.9'	71°22.7'
10	105°18.2'	35°44.4'	19°50.7'	71°40.9'	65°05.7'	73°48.6'	71°56.0'
11	105°50.8'	36°19.2'	19°18.3'	72°15.7'	64°31.1'	73°13.3'	72°29.4'
12	106°23.4'	36°54.1'	18°46.0'	72°50.5'	63°56.5'	72°38.0'	73°02.8'
13	106°56.0'	37°28.9'	18°13.9'	73°25.2'	63°21.9'	72°02.7'	73°36.2'
14	107°28.5'	38°03.8'	17°42.0'	73°60.0'	62°47.4'	71°27.5'	74°09.5'
15	108°01.1'	38°38.6'	17°10.3'	74°34.7'	62°12.8'	70°52.2'	74°42.9'
16	108°33.6'	39°13.4'	16°38.9'	75°09.4'	61°38.3'	70°17.0'	75°16.2'
17	109°06.1'	39°48.2'	16°07.6'	75°44.2'	61°03.8'	69°41.8'	75°49.6'
18	109°38.6'	40°23.0'	15°36.7'	76°18.8'	60°29.3'	69°06.6'	76°23.0'
19	110°11.1'	40°57.8'	15°06.0'	76°53.5'	59°54.8'	68°31.4'	76°56.3'
20	110°43.5'	41°32.5'	14°35.6'	77°28.2'	59°20.4'	67°56.2'	77°29.6'
21	111°16.0'	42°07.3'	14°05.6'	78°02.9'	58°45.9'	67°21.0'	78°03.0'
22	111°48.4'	42°42.1'	13°36.0'	78°37.5'	58°11.5'	66°45.9'	78°36.3'
23	112°20.9'	43°16.8'	13°06.8'	79°12.1'	57°37.1'	66°10.8'	79°09.6'

Wed Jun 12, 2019 UTC

UTC	+Sun Lunar Dist.	+Regulus Lunar Dist.	-Antares Lunar Dist.	-Jupiter Lunar Dist.	-Spica Lunar Dist.	+Pollux Lunar Dist.	-Saturn Lunar Dist.
0	112°53.3'	43°51.5'	57°02.8'	65°35.6'	12°38.1'	79°46.8'	95°18.6'
1	113°25.7'	44°26.2'	56°28.4'	65°00.5'	12°10.0'	80°21.4'	94°43.7'
2	113°58.1'	45°00.9'	55°54.1'	64°25.5'	11°42.4'	80°55.9'	94°08.7'
3	114°30.4'	45°35.6'	55°19.8'	63°50.4'	11°15.5'	81°30.5'	93°33.8'
4	115°02.8'	46°10.3'	54°45.5'	63°15.3'	–	82°05.1'	92°58.9'
5	115°35.1'	46°44.9'	54°11.2'	62°40.3'	–	82°39.6'	92°24.0'
6	116°07.4'	47°19.6'	53°37.0'	62°05.3'	–	83°14.2'	91°49.1'
7	116°39.7'	47°54.2'	53°02.7'	61°30.2'	–	83°48.7'	91°14.2'
8	117°12.0'	48°28.8'	52°28.5'	60°55.2'	–	84°23.2'	90°39.4'
9	117°44.3'	49°03.4'	51°54.4'	60°20.3'	–	84°57.7'	90°04.6'
10	118°16.6'	49°38.0'	51°20.2'	59°45.3'	–	85°32.1'	89°29.7'
11	118°48.8'	50°12.6'	50°46.1'	59°10.3'	–	86°06.6'	88°54.9'
12	119°21.0'	50°47.1'	50°12.0'	58°35.4'	–	86°41.0'	88°20.1'
13	119°53.3'	51°21.7'	49°37.9'	58°00.5'	–	87°15.5'	87°45.4'
14	120°25.5'	51°56.2'	49°03.8'	57°25.6'	–	87°49.9'	87°10.6'
15	120°57.6'	52°30.7'	48°29.8'	56°50.7'	–	88°24.3'	86°35.8'
16	121°29.8'	53°05.2'	47°55.8'	56°15.8'	–	88°58.7'	86°01.1'
17	122°02.0'	53°39.7'	47°21.8'	55°41.0'	–	89°33.0'	85°26.4'
18	122°34.1'	54°14.2'	46°47.8'	55°06.2'	–	90°07.4'	84°51.7'
19	123°06.2'	54°48.7'	46°13.9'	54°31.3'	–	90°41.7'	84°17.0'
20	123°38.3'	55°23.1'	45°40.0'	53°56.5'	–	91°16.0'	83°42.4'
21	124°10.4'	55°57.5'	45°06.1'	53°21.8'	–	91°50.3'	83°07.7'
22	124°42.5'	56°32.0'	44°32.3'	52°47.0'	–	92°24.6'	82°33.1'
23	125°14.5'	57°06.4'	43°58.5'	52°12.2'	–	92°58.9'	81°58.5'

Thu Jun 13, 2019 UTC

UTC	−Jupiter Lunar Dist.	−Antares Lunar Dist.	+Regulus Lunar Dist.	−Saturn Lunar Dist.	+Pollux Lunar Dist.	+Procyon Lunar Dist.	+Mars Lunar Dist.
0	51°37.5'	43°24.7'	57°40.7'	81°23.9'	93°33.1'	92°58.8'	99°37.2'
1	51°02.8'	42°50.9'	58°15.1'	80°49.3'	94°07.4'	93°31.7'	100°10.0'
2	50°28.1'	42°17.2'	58°49.4'	80°14.7'	94°41.6'	94°04.7'	100°42.8'
3	49°53.4'	41°43.5'	59°23.8'	79°40.2'	95°15.8'	94°37.6'	101°15.6'
4	49°18.7'	41°09.9'	59°58.1'	79°05.6'	95°50.0'	95°10.6'	101°48.4'
5	48°44.1'	40°36.2'	60°32.4'	78°31.1'	96°24.1'	95°43.5'	102°21.2'
6	48°09.5'	40°02.6'	61°06.7'	77°56.6'	96°58.3'	96°16.3'	102°54.0'
7	47°34.8'	39°29.1'	61°41.0'	77°22.1'	97°32.4'	96°49.2'	103°26.7'
8	47°00.3'	38°55.6'	62°15.2'	76°47.7'	98°06.5'	97°22.0'	103°59.4'
9	46°25.7'	38°22.1'	62°49.4'	76°13.2'	98°40.6'	97°54.9'	104°32.1'
10	45°51.1'	37°48.6'	63°23.7'	75°38.8'	99°14.7'	98°27.7'	105°04.8'
11	45°16.6'	37°15.2'	63°57.9'	75°04.4'	99°48.8'	99°00.5'	105°37.4'
12	44°42.1'	36°41.9'	64°32.0'	74°30.0'	100°22.8'	99°33.2'	106°10.1'
13	44°07.6'	36°08.5'	65°06.2'	73°55.6'	100°56.8'	100°06.0'	106°42.7'
14	43°33.1'	35°35.2'	65°40.4'	73°21.2'	101°30.8'	100°38.7'	107°15.3'
15	42°58.6'	35°02.0'	66°14.5'	72°46.9'	102°04.8'	101°11.4'	107°47.9'
16	42°24.2'	34°28.8'	66°48.6'	72°12.6'	102°38.8'	101°44.0'	108°20.5'
17	41°49.7'	33°55.6'	67°22.7'	71°38.3'	103°12.7'	102°16.7'	108°53.1'
18	41°15.3'	33°22.5'	67°56.8'	71°04.0'	103°46.6'	102°49.3'	109°25.6'
19	40°41.0'	32°49.5'	68°30.8'	70°29.7'	104°20.6'	103°21.9'	109°58.1'
20	40°06.6'	32°16.5'	69°04.9'	69°55.5'	104°54.4'	103°54.5'	110°30.6'
21	39°32.2'	31°43.5'	69°38.9'	69°21.2'	105°28.3'	104°27.0'	111°03.1'
22	38°57.9'	31°10.6'	70°12.9'	68°47.0'	106°02.2'	104°59.5'	111°35.6'
23	38°23.6'	30°37.8'	70°46.9'	68°12.8'	106°36.0'	105°32.0'	112°08.0'

Fri Jun 14, 2019 UTC

UTC	−Jupiter Lunar Dist.	−Antares Lunar Dist.	+Spica Lunar Dist.	−Saturn Lunar Dist.	+Regulus Lunar Dist.	+Pollux Lunar Dist.	+Procyon Lunar Dist.
0	37°49.3'	30°05.0'	18°35.7'	67°38.7'	71°20.9'	107°09.8'	106°04.5'
1	37°15.0'	29°32.3'	19°07.0'	67°04.5'	71°54.8'	107°43.6'	106°37.0'
2	36°40.8'	28°59.6'	19°38.4'	66°30.4'	72°28.8'	108°17.4'	107°09.4'
3	36°06.6'	28°27.0'	20°09.9'	65°56.2'	73°02.7'	108°51.1'	107°41.8'
4	35°32.4'	27°54.5'	20°41.6'	65°22.1'	73°36.6'	109°24.8'	108°14.1'
5	34°58.2'	27°22.0'	21°13.3'	64°48.1'	74°10.4'	109°58.6'	108°46.5'
6	34°24.0'	26°49.6'	21°45.2'	64°14.0'	74°44.3'	110°32.2'	109°18.8'
7	33°49.9'	26°17.3'	22°17.1'	63°40.0'	75°18.1'	111°05.9'	109°51.0'
8	33°15.8'	25°45.1'	22°49.1'	63°05.9'	75°52.0'	111°39.6'	110°23.3'
9	32°41.7'	25°13.0'	23°21.1'	62°31.9'	76°25.8'	112°13.2'	110°55.5'
10	32°07.6'	24°40.9'	23°53.2'	61°57.9'	76°59.5'	112°46.8'	111°27.7'
11	31°33.5'	24°08.9'	24°25.4'	61°24.0'	77°33.3'	113°20.4'	111°59.8'
12	30°59.5'	23°37.1'	24°57.6'	60°50.0'	78°07.0'	113°53.9'	112°31.9'
13	30°25.5'	23°05.3'	25°29.8'	60°16.1'	78°40.8'	114°27.5'	113°04.0'
14	29°51.5'	22°33.7'	26°02.1'	59°42.2'	79°14.5'	115°01.0'	113°36.1'
15	29°17.5'	22°02.2'	26°34.5'	59°08.3'	79°48.1'	115°34.5'	114°08.1'
16	28°43.6'	21°30.8'	27°06.8'	58°34.5'	80°21.8'	116°07.9'	114°40.1'
17	28°09.7'	20°59.5'	27°39.2'	58°00.6'	80°55.4'	116°41.4'	115°12.0'
18	27°35.8'	20°28.4'	28°11.7'	57°26.8'	81°29.1'	117°14.8'	115°44.0'
19	27°01.9'	19°57.4'	28°44.1'	56°53.0'	82°02.7'	117°48.2'	116°15.8'
20	26°28.1'	19°26.6'	29°16.6'	56°19.2'	82°36.2'	118°21.6'	116°47.7'
21	25°54.3'	18°56.0'	29°49.1'	55°45.5'	83°09.8'	118°54.9'	117°19.5'
22	25°20.5'	18°25.5'	30°21.6'	55°11.7'	83°43.3'	119°28.3'	117°51.3'
23	24°46.7'	17°55.3'	30°54.1'	54°38.0'	84°16.8'	120°01.6'	118°23.0'

## Sat Jun 15, 2019 UTC

UTC	−Jupiter Lunar Dist.	+Spica Lunar Dist.	−Saturn Lunar Dist.	−Antares Lunar Dist.	+Regulus Lunar Dist.	−Formalhaut Lunar Dist.	−Altair Lunar Dist.
0	24°13.0′	31°26.6′	54°04.3′	17°25.2′	84°50.3′	100°03.3′	68°02.0′
1	23°39.2′	31°59.1′	53°30.6′	16°55.4′	85°23.8′	99°31.4′	67°34.0′
2	23°05.6′	32°31.7′	52°57.0′	16°25.8′	85°57.3′	98°59.4′	67°06.0′
3	22°31.9′	33°04.2′	52°23.4′	15°56.5′	86°30.7′	98°27.5′	66°38.0′
4	21°58.3′	33°36.8′	51°49.7′	15°27.5′	87°04.1′	97°55.6′	66°10.2′
5	21°24.7′	34°09.4′	51°16.2′	14°58.9′	87°37.5′	97°23.7′	65°42.4′
6	20°51.1′	34°41.9′	50°42.6′	14°30.5′	88°10.9′	96°51.8′	65°14.6′
7	20°17.5′	35°14.5′	50°09.0′	14°02.6′	88°44.2′	96°20.0′	64°46.9′
8	19°44.0′	35°47.1′	49°35.5′	13°35.1′	89°17.5′	95°48.1′	64°19.3′
9	19°10.5′	36°19.7′	49°02.0′	13°08.0′	89°50.8′	95°16.3′	63°51.8′
10	18°37.1′	36°52.2′	48°28.5′	12°41.5′	90°24.1′	94°44.5′	63°24.3′
11	18°03.7′	37°24.8′	47°55.1′	12°15.5′	90°57.4′	94°12.7′	62°56.9′
12	17°30.3′	37°57.4′	47°21.6′	11°50.1′	91°30.6′	93°41.0′	62°29.6′
13	16°56.9′	38°29.9′	46°48.2′	11°25.4′	92°03.8′	93°09.2′	62°02.3′
14	16°23.6′	39°02.5′	46°14.8′	–	92°37.0′	92°37.5′	61°35.1′
15	15°50.4′	39°35.0′	45°41.5′	–	93°10.1′	92°05.8′	61°08.0′
16	15°17.1′	40°07.5′	45°08.1′	–	93°43.3′	91°34.1′	60°41.0′
17	14°44.0′	40°40.1′	44°34.8′	–	94°16.4′	91°02.4′	60°14.0′
18	14°10.8′	41°12.6′	44°01.5′	–	94°49.5′	90°30.8′	59°47.2′
19	13°37.7′	41°45.1′	43°28.2′	–	95°22.6′	89°59.2′	59°20.4′
20	13°04.7′	42°17.6′	42°55.0′	–	95°55.6′	89°27.6′	58°53.7′
21	12°31.7′	42°50.1′	42°21.8′	–	96°28.7′	88°56.0′	58°27.1′
22	11°58.8′	43°22.6′	41°48.6′	–	97°01.7′	88°24.4′	58°00.5′
23	11°25.9′	43°55.1′	41°15.4′	–	97°34.6′	87°52.9′	57°34.1′

## Sun Jun 16, 2019 UTC

UTC	−Jupiter Lunar Dist.	−Saturn Lunar Dist.	+Spica Lunar Dist.	+Regulus Lunar Dist.	−Formalhaut Lunar Dist.	+Arcturus Lunar Dist.	−Altair Lunar Dist.
0	10°53.1′	40°42.2′	44°27.5′	98°07.6′	87°21.4′	49°29.8′	57°07.7′
1	10°20.4′	40°09.1′	44°00.0′	98°40.5′	86°49.9′	49°57.0′	56°41.5′
2	9°47.8′	39°36.0′	45°32.4′	99°13.4′	86°18.5′	50°24.3′	56°15.3′
3	9°15.3′	39°02.9′	46°04.8′	99°46.3′	85°47.0′	50°51.6′	55°49.3′
4	8°42.8′	38°29.8′	46°37.2′	100°19.2′	85°15.6′	51°19.0′	55°23.3′
5	8°10.6′	37°56.8′	47°09.6′	100°52.0′	84°44.2′	51°46.5′	54°57.4′
6	7°38.4′	37°23.7′	47°42.0′	101°24.8′	84°12.9′	52°14.0′	54°31.7′
7	7°06.5′	36°50.8′	48°14.3′	101°57.6′	83°41.5′	52°41.6′	54°06.0′
8	6°34.8′	36°17.8′	48°46.7′	102°30.4′	83°10.2′	53°09.2′	53°40.5′
9	6°03.3′	35°44.8′	49°19.0′	103°03.1′	82°38.9′	53°36.8′	53°15.1′
10	5°32.2′	35°11.9′	49°51.3′	103°35.8′	82°07.7′	54°04.5′	52°49.7′
11	5°01.6′	34°39.0′	50°23.6′	104°08.5′	81°36.5′	54°32.3′	52°24.5′
12	4°31.5′	34°06.2′	50°55.9′	104°41.2′	81°05.3′	55°00.1′	51°59.4′
13	–	33°33.3′	51°28.1′	105°13.8′	80°34.1′	55°27.9′	51°34.5′
14	–	33°00.5′	52°00.4′	105°46.5′	80°02.9′	55°55.8′	51°09.6′
15	–	32°27.7′	52°32.6′	106°19.0′	79°31.8′	56°23.7′	50°44.9′
16	–	31°54.9′	53°04.8′	106°51.6′	79°00.7′	56°51.6′	50°20.3′
17	–	31°22.2′	53°37.0′	107°24.2′	78°29.7′	57°19.6′	49°55.8′
18	–	30°49.4′	54°09.2′	107°56.7′	77°58.6′	57°47.6′	49°31.5′
19	–	30°16.7′	54°41.3′	108°29.2′	77°27.6′	58°15.6′	49°07.3′
20	–	29°44.1′	55°13.4′	109°01.6′	76°56.7′	58°43.7′	48°43.3′
21	–	29°11.4′	55°45.6′	109°34.1′	76°25.7′	59°11.8′	48°19.3′
22	–	28°38.8′	56°17.6′	110°06.5′	75°54.8′	59°39.9′	47°55.6′
23	–	28°06.2′	56°49.7′	110°38.9′	75°23.9′	60°08.0′	47°31.9′

Mon Jun 17, 2019 UTC

UTC	−Saturn Lunar Dist.	+Spica Lunar Dist.	+Antares Lunar Dist.	−Formalhaut Lunar Dist.	+Arcturus Lunar Dist.	+Regulus Lunar Dist.	−Altair Lunar Dist.
0	27°33.6′	57°21.8′	13°13.3′	74°53.1′	60°36.2′	111°11.3′	47°08.5′
1	27°01.1′	57°53.8′	13°39.6′	74°22.3′	61°04.4′	111°43.6′	46°45.1′
2	26°28.5′	58°25.8′	14°06.4′	73°51.5′	61°32.5′	112°15.9′	46°22.0′
3	25°56.0′	58°57.8′	14°33.5′	73°20.7′	62°00.8′	112°48.2′	45°59.0′
4	25°23.6′	59°29.8′	15°00.9′	72°50.0′	62°29.0′	113°20.5′	45°36.1′
5	24°51.1′	60°01.7′	15°28.7′	72°19.3′	62°57.2′	113°52.7′	45°13.5′
6	24°18.7′	60°33.6′	15°56.6′	71°48.7′	63°25.5′	114°24.9′	44°51.0′
7	23°46.3′	61°05.5′	16°24.8′	71°18.1′	63°53.8′	114°57.1′	44°28.6′
8	23°13.9′	61°37.4′	16°53.3′	70°47.5′	64°22.0′	115°29.3′	44°06.5′
9	22°41.6′	62°09.3′	17°21.9′	70°16.9′	64°50.3′	116°01.4′	43°44.5′
10	22°09.3′	62°41.1′	17°50.7′	69°46.4′	65°18.6′	116°33.5′	43°22.7′
11	21°37.0′	63°12.9′	18°19.6′	69°15.9′	65°47.0′	117°05.6′	43°01.2′
12	21°04.7′	63°44.7′	18°48.7′	68°45.5′	66°15.3′	117°37.6′	42°39.8′
13	20°32.5′	64°16.5′	19°17.9′	68°15.1′	66°43.6′	118°09.7′	42°18.6′
14	20°00.2′	64°48.2′	19°47.2′	67°44.7′	67°11.9′	118°41.7′	41°57.6′
15	19°28.0′	65°20.0′	20°16.7′	67°14.4′	67°40.3′	119°13.7′	41°36.8′
16	18°55.9′	65°51.7′	20°46.2′	66°44.1′	68°08.6′	119°45.6′	41°16.2′
17	18°23.7′	66°23.4′	21°15.9′	66°13.8′	68°37.0′	120°17.5′	40°55.9′
18	17°51.6′	66°55.0′	21°45.6′	65°43.6′	69°05.3′	120°49.4′	40°35.8′
19	17°19.5′	67°26.6′	22°15.4′	65°13.4′	69°33.7′	121°21.3′	40°15.9′
20	16°47.5′	67°58.3′	22°45.2′	64°43.3′	70°02.0′	121°53.2′	39°56.2′
21	16°15.4′	68°29.8′	23°15.2′	64°13.2′	70°30.4′	122°25.0′	39°36.8′
22	15°43.4′	69°01.4′	23°45.1′	63°43.1′	70°58.7′	122°56.8′	39°17.6′
23	15°11.4′	69°33.0′	24°15.2′	63°13.1′	71°27.1′	123°28.5′	38°58.6′

Tue Jun 18, 2019 UTC

UTC	−Saturn Lunar Dist.	+Jupiter Lunar Dist.	+Antares Lunar Dist.	+Spica Lunar Dist.	−Formalhaut Lunar Dist.	+Arcturus Lunar Dist.	−Altair Lunar Dist.
0	14°39.5′	15°35.2′	24°45.2′	70°04.5′	62°43.1′	71°55.4′	38°39.9′
1	14°07.6′	16°07.0′	25°15.4′	70°36.0′	62°13.1′	72°23.7′	38°21.5′
2	13°35.7′	16°38.8′	25°45.5′	71°07.4′	61°43.2′	72°52.1′	38°03.3′
3	13°03.8′	17°10.6′	26°15.7′	71°38.9′	61°13.4′	73°20.4′	37°45.4′
4	12°31.9′	17°42.5′	26°45.9′	72°10.3′	60°43.6′	73°48.7′	37°27.8′
5	12°00.1′	18°14.2′	27°16.2′	72°41.7′	60°13.8′	74°17.1′	37°10.4′
6	11°28.3′	18°46.0′	27°46.5′	73°13.1′	59°44.0′	74°45.4′	36°53.4′
7	10°56.5′	19°17.8′	28°16.8′	73°44.4′	59°14.4′	75°13.7′	36°36.6′
8	10°24.8′	19°49.5′	28°47.1′	74°15.8′	58°44.7′	75°42.0′	36°20.1′
9	9°53.1′	20°21.3′	29°17.4′	74°47.1′	58°15.1′	76°10.3′	36°03.9′
10	9°21.4′	20°53.0′	29°47.8′	75°18.4′	57°45.6′	76°38.6′	35°48.1′
11	8°49.8′	21°24.7′	30°18.1′	75°49.6′	57°16.0′	77°06.9′	35°32.5′
12	8°18.1′	21°56.4′	30°48.5′	76°20.9′	56°46.6′	77°35.1′	35°17.3′
13	7°46.5′	22°28.0′	31°18.9′	76°52.1′	56°17.2′	78°03.4′	35°02.4′
14	7°15.0′	22°59.7′	31°49.3′	77°23.3′	55°47.8′	78°31.6′	34°47.8′
15	6°43.5′	23°31.3′	32°19.7′	77°54.4′	55°18.5′	78°59.9′	34°33.6′
16	6°12.0′	24°02.9′	32°50.1′	78°25.6′	54°49.2′	79°28.1′	34°19.7′
17	5°40.5′	24°34.4′	33°20.5′	78°56.7′	54°20.0′	79°56.3′	34°06.1′
18	5°09.1′	25°06.0′	33°50.9′	79°27.8′	53°50.8′	80°24.5′	33°52.9′
19	4°37.7′	25°37.5′	34°21.3′	79°58.8′	53°21.7′	80°52.7′	33°40.1′
20	4°06.4′	26°09.1′	34°51.7′	80°29.9′	52°52.7′	81°20.9′	33°27.7′
21	3°35.2′	26°40.6′	35°22.1′	81°00.9′	52°23.6′	81°49.0′	33°15.6′
22	3°04.1′	27°12.0′	35°52.5′	81°31.9′	51°54.7′	82°17.2′	33°03.9′
23	2°33.1′	27°43.5′	36°22.9′	82°02.9′	51°25.8′	82°45.3′	32°52.6′



Wed Jun 19, 2019 UTC

UTC	−Saturn Lunar Dist.	+Jupiter Lunar Dist.	+Antares Lunar Dist.	−Formalhaut Lunar Dist.	+Spica Lunar Dist.	+Arcturus Lunar Dist.	+Rigel Kentaurus Lunar Dist.
0	2°02.3'	28°14.9'	36°53.3'	50°56.9'	82°33.8'	83°13.4'	59°54.0'
1	−	28°46.3'	37°23.7'	50°28.1'	83°04.7'	83°41.5'	60°11.1'
2	−	29°17.7'	37°54.0'	49°59.4'	83°35.6'	84°09.6'	60°28.4'
3	−	29°49.1'	38°24.4'	49°30.7'	84°06.5'	84°37.6'	60°45.7'
4	−	30°20.4'	38°54.8'	49°02.1'	84°37.4'	85°05.7'	61°03.1'
5	−	30°51.7'	39°25.2'	48°33.6'	85°08.2'	85°33.7'	61°20.6'
6	−	31°23.0'	39°55.5'	48°05.1'	85°39.0'	86°01.7'	61°38.2'
7	1°43.0'	31°54.3'	40°25.9'	47°36.6'	86°09.8'	86°29.7'	61°55.9'
8	2°13.3'	32°25.6'	40°56.2'	47°08.3'	86°40.6'	86°57.7'	62°13.6'
9	2°44.0'	32°56.8'	41°26.5'	46°40.0'	87°11.3'	87°25.7'	62°31.5'
10	3°14.8'	33°28.0'	41°56.8'	46°11.7'	87°42.0'	87°53.6'	62°49.4'
11	3°45.6'	33°59.2'	42°27.2'	45°43.5'	88°12.7'	88°21.5'	63°07.5'
12	4°16.5'	34°30.4'	42°57.5'	45°15.4'	88°43.4'	88°49.4'	63°25.6'
13	4°47.4'	35°01.5'	43°27.7'	44°47.4'	89°14.0'	89°17.3'	63°43.7'
14	5°18.3'	35°32.6'	43°58.0'	44°19.4'	89°44.6'	89°45.2'	64°02.0'
15	5°49.3'	36°03.7'	44°28.3'	43°51.5'	90°15.2'	90°13.0'	64°20.3'
16	6°20.2'	36°34.8'	44°58.5'	43°23.7'	90°45.8'	90°40.8'	64°38.7'
17	6°51.1'	37°05.9'	45°28.8'	42°56.0'	91°16.4'	91°08.6'	64°57.2'
18	7°21.9'	37°36.9'	45°59.0'	42°28.3'	91°46.9'	91°36.4'	65°15.7'
19	7°52.8'	38°07.9'	46°29.2'	42°00.7'	92°17.4'	92°04.2'	65°34.3'
20	8°23.7'	38°38.9'	46°59.4'	41°33.2'	92°47.9'	92°31.9'	65°53.0'
21	8°54.5'	39°09.9'	47°29.6'	41°05.8'	93°18.3'	92°59.6'	66°11.7'
22	9°25.3'	39°40.8'	47°59.8'	40°38.4'	93°48.8'	93°27.3'	66°30.5'
23	9°56.1'	40°11.8'	48°29.9'	40°11.2'	94°19.2'	93°55.0'	66°49.4'

Thu Jun 20, 2019 UTC

UTC	+Saturn Lunar Dist.	+Jupiter Lunar Dist.	+Antares Lunar Dist.	−Formalhaut Lunar Dist.	+Spica Lunar Dist.	+Arcturus Lunar Dist.	+Rigel Kentaurus Lunar Dist.
0	10°26.9'	40°42.7'	49°00.1'	39°44.0'	94°49.6'	94°22.6'	67°08.3'
1	10°57.7'	41°13.6'	49°30.2'	39°16.9'	95°20.0'	94°50.2'	67°27.3'
2	11°28.4'	41°44.4'	50°00.3'	38°49.9'	95°50.3'	95°17.8'	67°46.3'
3	11°59.1'	42°15.3'	50°30.4'	38°23.0'	96°20.7'	95°45.4'	68°05.4'
4	12°29.8'	42°46.1'	51°00.5'	37°56.2'	96°51.0'	96°12.9'	68°24.5'
5	13°00.5'	43°16.9'	51°30.6'	37°29.5'	97°21.3'	96°40.5'	68°43.7'
6	13°31.2'	43°47.7'	52°00.6'	37°02.9'	97°51.5'	97°08.0'	69°02.9'
7	14°01.8'	44°18.5'	52°30.7'	36°36.5'	98°21.8'	97°35.4'	69°22.2'
8	14°32.5'	44°49.2'	53°00.7'	36°10.1'	98°52.0'	98°02.9'	69°41.5'
9	15°03.1'	45°19.9'	53°30.7'	35°43.8'	99°22.2'	98°30.3'	70°00.9'
10	15°33.7'	45°50.6'	54°00.7'	35°17.7'	99°52.4'	98°57.7'	70°20.4'
11	16°04.2'	46°21.3'	54°30.7'	34°51.6'	100°22.5'	99°25.1'	70°39.8'
12	16°34.8'	46°52.0'	55°00.7'	34°25.7'	100°52.7'	99°52.4'	70°59.3'
13	17°05.3'	47°22.6'	55°30.7'	33°59.9'	101°22.8'	100°19.7'	71°18.9'
14	17°35.8'	47°53.3'	56°00.6'	33°34.3'	101°52.9'	100°47.0'	71°38.5'
15	18°06.3'	48°23.9'	56°30.5'	33°08.7'	102°23.0'	101°14.3'	71°58.1'
16	18°36.8'	48°54.5'	57°00.5'	32°43.3'	102°53.0'	101°41.5'	72°17.8'
17	19°07.2'	49°25.0'	57°30.4'	32°18.1'	103°23.1'	102°08.7'	72°37.5'
18	19°37.7'	49°55.6'	58°00.3'	31°53.0'	103°53.1'	102°35.9'	72°57.2'
19	20°08.1'	50°26.1'	58°30.1'	31°28.0'	104°23.1'	103°03.0'	73°17.0'
20	20°38.5'	50°56.6'	58°60.0'	31°03.2'	104°53.1'	103°30.1'	73°36.8'
21	21°08.9'	51°27.1'	59°29.8'	30°38.6'	105°23.0'	103°57.2'	73°56.7'
22	21°39.2'	51°57.6'	59°59.7'	30°14.1'	105°53.0'	104°24.3'	74°16.6'
23	22°09.6'	52°28.1'	60°29.5'	29°49.8'	106°22.9'	104°51.3'	74°36.5'

Fri Jun 21, 2019 UTC

UTC	+Saturn Lunar Dist.	+Jupiter Lunar Dist.	+Antares Lunar Dist.	-Formalhaut Lunar Dist.	+Spica Lunar Dist.	-Aldebaran Lunar Dist.	+Arcturus Lunar Dist.
0	22°39.9'	52°58.5'	60°59.3'	29°25.7'	106°52.8'	118°33.9'	105°18.3'
1	23°10.2'	53°29.0'	61°29.1'	29°01.8'	107°22.7'	118°03.8'	105°45.3'
2	23°40.5'	53°59.4'	61°58.9'	28°38.0'	107°52.5'	117°33.7'	106°12.3'
3	24°10.8'	54°29.8'	62°28.6'	28°14.5'	108°22.4'	117°03.6'	106°39.2'
4	24°41.1'	55°00.1'	62°58.4'	27°51.1'	108°52.2'	116°33.5'	107°06.1'
5	25°11.3'	55°30.5'	63°28.1'	27°28.0'	109°22.0'	116°03.5'	107°32.9'
6	25°41.5'	56°00.9'	63°57.8'	27°05.1'	109°51.8'	115°33.5'	107°59.7'
7	26°11.7'	56°31.2'	64°27.5'	26°42.5'	110°21.6'	115°03.4'	108°26.5'
8	26°41.9'	57°01.5'	64°57.2'	26°20.0'	110°51.4'	114°33.4'	108°53.3'
9	27°12.1'	57°31.8'	65°26.9'	25°57.8'	111°21.1'	114°03.4'	109°20.0'
10	27°42.3'	58°02.1'	65°56.6'	25°35.9'	111°50.8'	113°33.5'	109°46.7'
11	28°12.5'	58°32.4'	66°26.3'	25°14.3'	112°20.5'	113°03.5'	110°13.3'
12	28°42.6'	59°02.6'	66°55.9'	24°52.9'	112°50.2'	112°33.5'	110°40.0'
13	29°12.7'	59°32.8'	67°25.5'	24°31.8'	113°19.9'	112°03.6'	111°06.6'
14	29°42.8'	60°03.1'	67°55.2'	24°11.0'	113°49.6'	111°33.7'	111°33.1'
15	30°12.9'	60°33.3'	68°24.8'	23°50.6'	114°19.2'	111°03.8'	111°59.6'
16	30°43.0'	61°03.5'	68°54.4'	23°30.4'	114°48.8'	110°33.9'	112°26.1'
17	31°13.1'	61°33.7'	69°24.0'	23°10.6'	115°18.4'	110°04.0'	112°52.6'
18	31°43.1'	62°03.8'	69°53.5'	22°51.2'	115°48.0'	109°34.2'	113°19.0'
19	32°13.2'	62°34.0'	70°23.1'	22°32.1'	116°17.6'	109°04.3'	113°45.4'
20	32°43.2'	63°04.1'	70°52.7'	22°13.4'	116°47.2'	108°34.5'	114°11.7'
21	33°13.2'	63°34.3'	71°22.2'	21°55.1'	117°16.7'	108°04.6'	114°38.0'
22	33°43.2'	64°04.4'	71°51.8'	21°37.3'	117°46.2'	107°34.8'	115°04.3'
23	34°13.2'	64°34.5'	72°21.3'	21°19.8'	118°15.8'	107°05.0'	115°30.5'

Sat Jun 22, 2019 UTC

UTC	+Saturn Lunar Dist.	+Jupiter Lunar Dist.	+Antares Lunar Dist.	-Aldebaran Lunar Dist.	+Spica Lunar Dist.	-Venus Lunar Dist.	+Arcturus Lunar Dist.
0	34°43.2'	65°04.6'	72°50.8'	106°35.2'	118°45.3'	112°38.9'	115°56.7'
1	35°13.2'	65°34.7'	73°20.3'	106°05.4'	119°14.8'	112°12.2'	116°22.9'
2	35°43.1'	66°04.8'	73°49.8'	105°35.7'	119°44.2'	111°45.5'	116°49.0'
3	36°13.1'	66°34.8'	74°19.3'	105°05.9'	120°13.7'	111°18.8'	117°15.0'
4	36°43.0'	67°04.9'	74°48.8'	104°36.2'	120°43.1'	110°52.1'	117°41.1'
5	37°12.9'	67°34.9'	75°18.2'	104°06.4'	121°12.6'	110°25.4'	118°07.1'
6	37°42.9'	68°05.0'	75°47.7'	103°36.7'	121°42.0'	109°58.7'	118°33.0'
7	38°12.8'	68°35.0'	76°17.1'	103°07.0'	122°11.4'	109°32.1'	118°58.9'
8	38°42.7'	69°05.0'	76°46.6'	102°37.3'	122°40.8'	109°05.4'	119°24.8'
9	39°12.6'	69°35.0'	77°16.0'	102°07.6'	123°10.2'	108°38.8'	119°50.6'
10	39°42.4'	70°05.0'	77°45.4'	101°37.9'	123°39.5'	108°12.1'	120°16.4'
11	40°12.3'	70°35.0'	78°14.9'	101°08.2'	124°08.9'	107°45.5'	120°42.1'
12	40°42.2'	71°05.0'	78°44.3'	100°38.5'	124°38.2'	107°18.9'	121°07.8'
13	41°12.0'	71°34.9'	79°13.7'	100°08.9'	125°07.6'	106°52.3'	121°33.5'
14	41°41.9'	72°04.9'	79°43.1'	99°39.2'	125°36.9'	106°25.7'	121°59.1'
15	42°11.7'	72°34.8'	80°12.5'	99°09.6'	126°06.2'	105°59.1'	122°24.6'
16	42°41.6'	73°04.8'	80°41.8'	98°39.9'	126°35.5'	105°32.5'	122°50.1'
17	43°11.4'	73°34.7'	81°11.2'	98°10.3'	127°04.8'	105°05.9'	123°15.5'
18	43°41.2'	74°04.7'	81°40.6'	97°40.7'	127°34.0'	104°39.3'	123°40.9'
19	44°11.0'	74°34.6'	82°10.0'	97°11.0'	128°03.3'	104°12.8'	124°06.3'
20	44°40.8'	75°04.5'	82°39.3'	96°41.4'	128°32.6'	103°46.2'	124°31.6'
21	45°10.6'	75°34.4'	83°08.7'	96°11.8'	129°01.8'	103°19.6'	124°56.8'
22	45°40.4'	76°04.3'	83°38.0'	95°42.2'	129°31.0'	102°53.1'	125°22.0'
23	46°10.2'	76°34.2'	84°07.4'	95°12.6'	130°00.2'	102°26.5'	125°47.2'

## Sun Jun 23, 2019 UTC

UTC	−Sun Lunar Dist.	+Saturn Lunar Dist.	+Jupiter Lunar Dist.	+Antares Lunar Dist.	−Aldebaran Lunar Dist.	+Altair Lunar Dist.	−Venus Lunar Dist.
0	116°16.9'	46°40.0'	77°04.1'	84°36.7'	94°43.0'	45°45.8'	101°60.0'
1	115°49.7'	47°09.8'	77°34.0'	85°06.1'	94°13.4'	46°06.8'	101°33.4'
2	115°22.4'	47°39.6'	78°03.9'	85°35.4'	93°43.8'	46°27.9'	101°06.9'
3	114°55.2'	48°09.3'	78°33.8'	86°04.7'	93°14.2'	46°49.1'	100°40.4'
4	114°28.0'	48°39.1'	79°03.7'	86°34.1'	92°44.7'	47°10.4'	100°13.8'
5	114°00.8'	49°08.9'	79°33.6'	87°03.4'	92°15.1'	47°31.8'	99°47.3'
6	113°33.6'	49°38.7'	80°03.5'	87°32.7'	91°45.5'	47°53.4'	99°20.8'
7	113°06.4'	50°08.4'	80°33.3'	88°02.1'	91°15.9'	48°15.0'	98°54.3'
8	112°39.2'	50°38.2'	81°03.2'	88°31.4'	90°46.4'	48°36.8'	98°27.7'
9	112°12.0'	51°07.9'	81°33.1'	89°00.7'	90°16.8'	48°58.7'	98°01.2'
10	111°44.8'	51°37.7'	82°03.0'	89°30.0'	89°47.2'	49°20.6'	97°34.7'
11	111°17.6'	52°07.5'	82°32.8'	89°59.3'	89°17.7'	49°42.7'	97°08.2'
12	110°50.4'	52°37.2'	83°02.7'	90°28.6'	88°48.1'	50°04.8'	96°41.7'
13	110°23.2'	53°07.0'	83°32.6'	90°58.0'	88°18.5'	50°27.1'	96°15.2'
14	109°56.0'	53°36.7'	84°02.4'	91°27.3'	87°49.0'	50°49.4'	95°48.7'
15	109°28.8'	54°06.5'	84°32.3'	91°56.6'	87°19.4'	51°11.8'	95°22.1'
16	109°01.6'	54°36.3'	85°02.2'	92°25.9'	86°49.8'	51°34.3'	94°55.6'
17	108°34.4'	55°06.0'	85°32.1'	92°55.2'	86°20.3'	51°56.9'	94°29.1'
18	108°07.1'	55°35.8'	86°01.9'	93°24.5'	85°50.7'	52°19.6'	94°02.6'
19	107°39.9'	56°05.5'	86°31.8'	93°53.9'	85°21.1'	52°42.3'	93°36.1'
20	107°12.7'	56°35.3'	87°01.7'	94°23.2'	84°51.6'	53°05.2'	93°09.5'
21	106°45.5'	57°05.1'	87°31.5'	94°52.5'	84°22.0'	53°28.1'	92°43.0'
22	106°18.3'	57°34.8'	88°01.4'	95°21.8'	83°52.4'	53°51.1'	92°16.5'
23	105°51.1'	58°04.6'	88°31.3'	95°51.2'	83°22.8'	54°14.2'	91°50.0'

## Mon Jun 24, 2019 UTC

UTC	−Sun Lunar Dist.	+Saturn Lunar Dist.	−Aldebaran Lunar Dist.	+Jupiter Lunar Dist.	+Antares Lunar Dist.	+Altair Lunar Dist.	−Venus Lunar Dist.
0	105°23.9'	58°34.4'	82°53.2'	89°01.2'	96°20.5'	54°37.3'	91°23.4'
1	104°56.6'	59°04.2'	82°23.6'	89°31.1'	96°49.8'	55°00.5'	90°56.9'
2	104°29.4'	59°34.0'	81°54.1'	90°01.0'	97°19.2'	55°23.8'	90°30.3'
3	104°02.2'	60°03.8'	81°24.5'	90°30.9'	97°48.5'	55°47.2'	90°03.8'
4	103°34.9'	60°33.6'	80°54.9'	91°00.8'	98°17.9'	56°10.6'	89°37.2'
5	103°07.7'	61°03.4'	80°25.3'	91°30.7'	98°47.2'	56°34.1'	89°10.7'
6	102°40.5'	61°33.2'	79°55.6'	92°00.6'	99°16.6'	56°57.7'	88°44.1'
7	102°13.2'	62°03.0'	79°26.0'	92°30.5'	99°45.9'	57°21.3'	88°17.6'
8	101°45.9'	62°32.8'	78°56.4'	93°00.4'	100°15.3'	57°45.0'	87°51.0'
9	101°18.7'	63°02.6'	78°26.8'	93°30.4'	100°44.7'	58°08.8'	87°24.4'
10	100°51.4'	63°32.4'	77°57.1'	94°00.3'	101°14.0'	58°32.6'	86°57.8'
11	100°24.1'	64°02.3'	77°27.5'	94°30.3'	101°43.4'	58°56.5'	86°31.2'
12	99°56.8'	64°32.1'	76°57.8'	95°00.2'	102°12.8'	59°20.4'	86°04.6'
13	99°29.5'	65°02.0'	76°28.2'	95°30.2'	102°42.2'	59°44.4'	85°38.0'
14	99°02.2'	65°31.8'	75°58.5'	96°00.1'	103°11.6'	60°08.5'	85°11.4'
15	98°34.9'	66°01.7'	75°28.8'	96°30.1'	103°41.0'	60°32.6'	84°44.8'
16	98°07.6'	66°31.6'	74°59.2'	97°00.1'	104°10.4'	60°56.8'	84°18.1'
17	97°40.2'	67°01.5'	74°29.5'	97°30.1'	104°39.9'	61°21.0'	83°51.5'
18	97°12.9'	67°31.4'	73°59.8'	98°00.1'	105°09.3'	61°45.3'	83°24.8'
19	96°45.5'	68°01.3'	73°30.0'	98°30.1'	105°38.7'	62°09.6'	82°58.2'
20	96°18.2'	68°31.2'	73°00.3'	99°00.1'	106°08.2'	62°34.0'	82°31.5'
21	95°50.8'	69°01.2'	72°30.6'	99°30.2'	106°37.7'	62°58.5'	82°04.8'
22	95°23.4'	69°31.1'	72°00.8'	100°00.2'	107°07.1'	63°22.9'	81°38.1'
23	94°56.0'	70°01.1'	71°31.1'	100°30.3'	107°36.6'	63°47.5'	81°11.4'

Tue Jun 25, 2019 UTC

UTC	-Sun Lunar Dist.	+Saturn Lunar Dist.	-Aldebaran Lunar Dist.	+Formalhaut Lunar Dist.	+Jupiter Lunar Dist.	+Antares Lunar Dist.	+Altair Lunar Dist.
0	94°28.6'	70°31.0'	71°01.3'	28°46.7'	101°00.4'	108°06.1'	64°12.1'
1	94°01.2'	71°01.0'	70°31.5'	29°10.2'	101°30.4'	108°35.6'	64°36.7'
2	93°33.7'	71°31.0'	70°01.7'	29°33.9'	102°00.5'	109°05.1'	65°01.4'
3	93°06.3'	72°01.0'	69°31.9'	29°57.9'	102°30.6'	109°34.6'	65°26.2'
4	92°38.8'	72°31.0'	69°02.1'	30°21.9'	103°00.8'	110°04.2'	65°51.0'
5	92°11.3'	73°01.1'	68°32.3'	30°46.2'	103°30.9'	110°33.7'	66°15.8'
6	91°43.9'	73°31.1'	68°02.4'	31°10.6'	104°01.1'	111°03.3'	66°40.7'
7	91°16.3'	74°01.2'	67°32.6'	31°35.1'	104°31.2'	111°32.9'	67°05.6'
8	90°48.8'	74°31.2'	67°02.7'	31°59.8'	105°01.4'	112°02.4'	67°30.6'
9	90°21.3'	75°01.3'	66°32.8'	32°24.7'	105°31.6'	112°32.0'	67°55.7'
10	89°53.7'	75°31.4'	66°02.9'	32°49.7'	106°01.8'	113°01.7'	68°20.7'
11	89°26.2'	76°01.6'	65°32.9'	33°14.8'	106°32.0'	113°31.3'	68°45.8'
12	88°58.6'	76°31.7'	65°03.0'	33°40.0'	107°02.3'	114°00.9'	69°11.0'
13	88°31.0'	77°01.9'	64°33.1'	34°05.4'	107°32.5'	114°30.6'	69°36.2'
14	88°03.4'	77°32.0'	64°03.1'	34°30.9'	108°02.8'	115°00.2'	70°01.4'
15	87°35.7'	78°02.2'	63°33.1'	34°56.5'	108°33.1'	115°29.9'	70°26.7'
16	87°08.1'	78°32.5'	63°03.1'	35°22.2'	109°03.4'	115°59.6'	70°52.1'
17	86°40.4'	79°02.7'	62°33.0'	35°48.1'	109°33.7'	116°29.3'	71°17.4'
18	86°12.7'	79°32.9'	62°03.0'	36°14.1'	110°04.1'	116°59.1'	71°42.8'
19	85°45.0'	80°03.2'	61°32.9'	36°40.1'	110°34.4'	117°28.8'	72°08.3'
20	85°17.3'	80°33.5'	61°02.9'	37°06.3'	111°04.8'	117°58.6'	72°33.8'
21	84°49.5'	81°03.8'	60°32.8'	37°32.6'	111°35.2'	118°28.3'	72°59.3'
22	84°21.7'	81°34.1'	60°02.6'	37°58.9'	112°05.6'	118°58.1'	73°24.9'
23	83°53.9'	82°04.5'	59°32.5'	38°25.4'	112°36.1'	119°27.9'	73°50.5'

Wed Jun 26, 2019 UTC

UTC	-Sun Lunar Dist.	-Aldebaran Lunar Dist.	+Formalhaut Lunar Dist.	+Saturn Lunar Dist.	+Jupiter Lunar Dist.	-Rigel Lunar Dist.	+Altair Lunar Dist.
0	83°26.1'	59°02.3'	38°52.0'	82°34.8'	113°06.5'	67°06.6'	74°16.2'
1	82°58.3'	58°32.1'	39°18.6'	83°05.2'	113°37.0'	66°40.7'	74°41.9'
2	82°30.4'	58°01.9'	39°45.4'	83°35.6'	114°07.5'	66°14.8'	75°07.6'
3	82°02.6'	57°31.7'	40°12.2'	84°06.1'	114°38.1'	65°48.9'	75°33.3'
4	81°34.7'	57°01.5'	40°39.1'	84°36.5'	115°08.6'	65°23.1'	75°59.2'
5	81°06.7'	56°31.2'	41°06.1'	85°07.0'	115°39.2'	64°57.3'	76°25.0'
6	80°38.8'	56°00.9'	41°33.2'	85°37.5'	116°09.8'	64°31.5'	76°50.9'
7	80°10.8'	55°30.6'	42°00.4'	86°08.0'	116°40.4'	64°05.7'	77°16.8'
8	79°42.8'	55°00.2'	42°27.6'	86°38.6'	117°11.0'	63°39.9'	77°42.7'
9	79°14.8'	54°29.9'	42°54.9'	87°09.1'	117°41.7'	63°14.1'	78°08.7'
10	78°46.8'	53°59.5'	43°22.3'	87°39.7'	118°12.4'	62°48.4'	78°34.8'
11	78°18.7'	53°29.1'	43°49.8'	88°10.3'	118°43.1'	62°22.6'	79°00.8'
12	77°50.6'	52°58.7'	44°17.4'	88°41.0'	119°13.8'	61°56.9'	79°26.9'
13	77°22.5'	52°28.2'	44°45.0'	89°11.7'	119°44.6'	61°31.2'	79°53.0'
14	76°54.4'	51°57.7'	45°12.7'	89°42.4'	120°15.4'	61°05.5'	80°19.2'
15	76°26.2'	51°27.2'	45°40.5'	90°13.1'	120°46.2'	60°39.9'	80°45.4'
16	75°58.0'	50°56.7'	46°08.3'	90°43.8'	121°17.0'	60°14.3'	81°11.6'
17	75°29.8'	50°26.1'	46°36.2'	91°14.6'	121°47.9'	59°48.7'	81°37.9'
18	75°01.5'	49°55.5'	47°04.2'	91°45.4'	122°18.7'	59°23.1'	82°04.2'
19	74°33.3'	49°24.9'	47°32.2'	92°16.2'	122°49.7'	58°57.6'	82°30.5'
20	74°05.0'	48°54.3'	48°00.3'	92°47.1'	123°20.6'	58°32.0'	82°56.9'
21	73°36.6'	48°23.6'	48°28.5'	93°18.0'	123°51.6'	58°06.5'	83°23.3'
22	73°08.3'	47°52.9'	48°56.7'	93°48.9'	124°22.6'	57°41.1'	83°49.8'
23	72°39.9'	47°22.2'	49°25.0'	94°19.8'	124°53.6'	57°15.6'	84°16.2'

Thu Jun 27, 2019 UTC

UTC	−Sun Lunar Dist.	−Aldebaran Lunar Dist.	+Formalhaut Lunar Dist.	+Saturn Lunar Dist.	−Capella Lunar Dist.	−Rigel Lunar Dist.	+Altair Lunar Dist.
0	72°11.5′	46°51.4′	49°53.4′	94°50.8′	64°12.7′	56°50.2′	84°42.7′
1	71°43.0′	46°20.6′	50°21.8′	95°21.8′	63°45.5′	56°24.9′	85°09.3′
2	71°14.6′	45°49.8′	50°50.3′	95°52.8′	63°18.3′	55°59.6′	85°35.8′
3	70°46.0′	45°19.0′	51°18.9′	96°23.9′	62°51.1′	55°34.3′	86°02.4′
4	70°17.5′	44°48.1′	51°47.5′	96°55.0′	62°23.9′	55°09.0′	86°29.0′
5	69°48.9′	44°17.2′	52°16.1′	97°26.1′	61°56.8′	54°43.8′	86°55.7′
6	69°20.3′	43°46.3′	52°44.9′	97°57.3′	61°29.6′	54°18.6′	87°22.4′
7	68°51.7′	43°15.3′	53°13.6′	98°28.5′	61°02.5′	53°53.5′	87°49.1′
8	68°23.1′	42°44.3′	53°42.5′	98°59.7′	60°35.3′	53°28.4′	88°15.8′
9	67°54.4′	42°13.3′	54°11.4′	99°30.9′	60°08.2′	53°03.4′	88°42.6′
10	67°25.6′	41°42.3′	54°40.3′	100°02.2′	59°41.1′	52°38.4′	89°09.4′
11	66°56.9′	41°11.2′	55°09.4′	100°33.5′	59°13.9′	52°13.4′	89°36.3′
12	66°28.1′	40°40.1′	55°38.4′	101°04.9′	58°46.8′	51°48.6′	90°03.1′
13	65°59.3′	40°08.9′	56°07.6′	101°36.2′	58°19.8′	51°23.7′	90°30.0′
14	65°30.4′	39°37.7′	56°36.7′	102°07.6′	57°52.7′	50°58.9′	90°56.9′
15	65°01.5′	39°06.5′	57°06.0′	102°39.1′	57°25.6′	50°34.2′	91°23.9′
16	64°32.6′	38°35.3′	57°35.3′	103°10.6′	56°58.6′	50°09.6′	91°50.8′
17	64°03.6′	38°04.0′	58°04.6′	103°42.1′	56°31.6′	49°45.0′	92°17.8′
18	63°34.7′	37°32.7′	58°34.0′	104°13.6′	56°04.6′	49°20.5′	92°44.9′
19	63°05.6′	37°01.4′	59°03.5′	104°45.2′	55°37.6′	48°56.0′	93°11.9′
20	62°36.6′	36°30.0′	59°33.0′	105°16.8′	55°10.6′	48°31.6′	93°39.0′
21	62°07.5′	35°58.6′	60°02.5′	105°48.5′	54°43.7′	48°07.3′	94°06.1′
22	61°38.3′	35°27.1′	60°32.1′	106°20.2′	54°16.8′	47°43.1′	94°33.2′
23	61°09.2′	34°55.7′	61°01.8′	106°51.9′	53°49.9′	47°19.0′	95°00.4′

Fri Jun 28, 2019 UTC

UTC	−Sun Lunar Dist.	−Aldebaran Lunar Dist.	+Formalhaut Lunar Dist.	−Capella Lunar Dist.	+Saturn Lunar Dist.	−Rigel Lunar Dist.	+Altair Lunar Dist.
0	60°40.0′	34°24.2′	61°31.5′	53°23.0′	107°23.7′	46°54.9′	95°27.6′
1	60°10.7′	33°52.6′	62°01.3′	52°56.2′	107°55.5′	46°30.9′	95°54.8′
2	59°41.4′	33°21.0′	62°31.1′	52°29.4′	108°27.3′	46°07.0′	96°22.0′
3	59°12.1′	32°49.4′	63°01.0′	52°02.6′	108°59.2′	45°43.2′	96°49.3′
4	58°42.8′	32°17.8′	63°30.9′	51°35.9′	109°31.1′	45°19.5′	97°16.5′
5	58°13.4′	31°46.1′	64°00.9′	51°09.2′	110°03.0′	44°55.9′	97°43.8′
6	57°44.0′	31°14.4′	64°30.9′	50°42.5′	110°35.0′	44°32.5′	98°11.1′
7	57°14.5′	30°42.6′	65°01.0′	50°15.9′	111°07.0′	44°09.1′	98°38.5′
8	56°45.0′	30°10.8′	65°31.1′	49°49.3′	111°39.1′	43°45.8′	99°05.8′
9	56°15.5′	29°39.0′	66°01.3′	49°22.8′	112°11.2′	43°22.7′	99°33.2′
10	55°45.9′	29°07.2′	66°31.5′	48°56.3′	112°43.3′	42°59.6′	100°00.6′
11	55°16.3′	28°35.3′	67°01.8′	48°29.9′	113°15.5′	42°36.7′	100°28.0′
12	54°46.6′	28°03.3′	67°32.2′	48°03.5′	113°47.7′	42°14.0′	100°55.5′
13	54°16.9′	27°31.4′	68°02.5′	47°37.2′	114°19.9′	41°51.4′	101°22.9′
14	53°47.2′	26°59.4′	68°33.0′	47°10.9′	114°52.2′	41°28.9′	101°50.4′
15	53°17.4′	26°27.4′	69°03.4′	46°44.7′	115°24.6′	41°06.5′	102°17.9′
16	52°47.6′	25°55.3′	69°34.0′	46°18.6′	115°56.9′	40°44.3′	102°45.4′
17	52°17.7′	25°23.2′	70°04.5′	45°52.5′	116°29.3′	40°22.3′	103°12.9′
18	51°47.9′	24°51.1′	70°35.2′	45°26.5′	117°01.8′	40°00.4′	103°40.5′
19	51°17.9′	24°18.9′	71°05.8′	45°00.6′	117°34.3′	39°38.7′	104°08.0′
20	50°47.9′	23°46.7′	71°36.6′	44°34.7′	118°06.8′	39°17.2′	104°35.6′
21	50°17.9′	23°14.4′	72°07.3′	44°08.9′	118°39.4′	38°55.9′	105°03.1′
22	49°47.9′	22°42.2′	72°38.2′	43°43.2′	119°12.0′	38°34.7′	105°30.7′
23	49°17.8′	22°09.9′	73°09.0′	43°17.6′	119°44.6′	38°13.8′	105°58.3′

## Sat Jun 29, 2019 UTC

UTC	−Sun Lunar Dist.	−Aldebaran Lunar Dist.	+Formalhaut Lunar Dist.	−Capella Lunar Dist.	+Altair Lunar Dist.	−Rigel Lunar Dist.	+Achernar Lunar Dist.
0	48°47.7′	21°37.5′	73°39.9′	42°52.1′	106°25.9′	37°53.0′	72°31.0′
1	48°17.5′	21°05.2′	74°10.9′	42°26.7′	106°53.5′	37°32.5′	72°47.8′
2	47°47.3′	20°32.8′	74°41.9′	42°01.4′	107°21.2′	37°12.2′	73°04.8′
3	47°17.0′	20°00.3′	75°13.0′	41°36.2′	107°48.8′	36°52.1′	73°21.8′
4	46°46.7′	19°27.9′	75°44.1′	41°11.1′	108°16.4′	36°32.2′	73°38.9′
5	46°16.4′	18°55.4′	76°15.2′	40°46.1′	108°44.1′	36°12.6′	73°56.0′
6	45°46.0′	18°22.9′	76°46.4′	40°21.2′	109°11.7′	35°53.2′	74°13.3′
7	45°15.6′	17°50.3′	77°17.7′	39°56.5′	109°39.4′	35°34.1′	74°30.7′
8	44°45.1′	17°17.8′	77°49.0′	39°31.9′	110°07.1′	35°15.3′	74°48.1′
9	44°14.6′	16°45.2′	78°20.3′	39°07.4′	110°34.7′	34°56.7′	75°05.6′
10	43°44.0′	16°12.5′	78°51.7′	38°43.1′	111°02.4′	34°38.4′	75°23.2′
11	43°13.4′	15°39.9′	79°23.1′	38°18.9′	111°30.0′	34°20.4′	75°40.9′
12	42°42.8′	15°07.2′	79°54.6′	37°54.9′	111°57.7′	34°02.8′	75°58.7′
13	42°12.1′	14°34.6′	80°26.1′	37°31.0′	112°25.4′	33°45.4′	76°16.5′
14	41°41.4′	14°01.9′	80°57.7′	37°07.3′	112°53.0′	33°28.4′	76°34.5′
15	41°10.6′	13°29.2′	81°29.3′	36°43.8′	113°20.6′	33°11.7′	76°52.5′
16	40°39.8′	12°56.5′	82°00.9′	36°20.5′	113°48.3′	32°55.3′	77°10.5′
17	40°09.0′	12°23.8′	82°32.6′	35°57.4′	114°15.9′	32°39.3′	77°28.7′
18	39°38.1′	11°51.1′	83°04.4′	35°34.4′	114°43.5′	32°23.7′	77°46.9′
19	39°07.2′	11°18.4′	83°36.2′	35°11.7′	115°11.1′	32°08.4′	78°05.2′
20	38°36.2′	10°45.8′	84°08.0′	34°49.2′	115°38.7′	31°53.6′	78°23.6′
21	38°05.2′	10°13.1′	84°39.9′	34°26.9′	116°06.3′	31°39.1′	78°42.0′
22	37°34.1′	9°40.6′	85°11.8′	34°04.9′	116°33.9′	31°25.0′	79°00.5′
23	37°03.0′	9°08.1′	85°43.8′	33°43.1′	117°01.5′	31°11.4′	79°19.1′

## Sun Jun 30, 2019 UTC

UTC	−Aldebaran Lunar Dist.	+Formalhaut Lunar Dist.	−Capella Lunar Dist.	+Altair Lunar Dist.	+Achernar Lunar Dist.
0	8°35.6′	86°15.8′	33°21.6′	117°29.0′	79°37.8′
1	8°03.3′	86°47.8′	33°00.3′	117°56.5′	79°56.5′
2	7°31.1′	87°19.9′	32°39.3′	118°24.0′	80°15.2′
3	6°59.1′	87°52.1′	32°18.6′	118°51.4′	80°34.1′
4	6°27.3′	88°24.2′	31°58.2′	119°18.9′	80°53.0′
5	5°55.9′	88°56.5′	31°38.1′	119°46.3′	81°11.9′
6	5°24.8′	89°28.7′	31°18.4′	120°13.7′	81°30.9′
7	4°54.4′	90°01.0′	30°58.9′	120°41.0′	81°50.0′
8	–	90°33.4′	30°39.9′	121°08.3′	82°09.1′
9	–	91°05.7′	30°21.2′	121°35.6′	82°28.3′
10	–	91°38.2′	30°02.8′	122°02.9′	82°47.6′
11	–	92°10.6′	29°44.9′	122°30.1′	83°06.9′
12	–	92°43.1′	29°27.4′	122°57.2′	83°26.2′
13	–	93°15.7′	29°10.3′	123°24.3′	83°45.6′
14	–	93°48.2′	28°53.6′	123°51.4′	84°05.0′
15	–	94°20.9′	28°37.4′	124°18.4′	84°24.5′
16	–	94°53.5′	28°21.6′	124°45.3′	84°44.1′
17	–	95°26.2′	28°06.3′	125°12.2′	85°03.6′
18	–	95°58.9′	27°51.6′	125°39.1′	85°23.3′
19	–	96°31.7′	27°37.3′	126°05.8′	85°42.9′
20	–	97°04.5′	27°23.6′	126°32.5′	86°02.7′
21	–	97°37.3′	27°10.4′	126°59.2′	86°22.4′
22	–	98°10.2′	26°57.8′	127°25.7′	86°42.2′
23	5°14.8′	98°43.1′	26°45.7′	127°52.2′	87°02.0′