

## Sun Dec 1, 2019 UTC

UTC	+Sun Lunar Dist.	+Saturn Lunar Dist.	+Jupiter Lunar Dist.	+Venus Lunar Dist.	-Formalhaut Lunar Dist.
0	53°31.1'	14°09.0'	32°25.8'	25°47.4'	36°40.3'
1	53°59.8'	14°39.9'	32°56.5'	26°15.5'	36°13.0'
2	54°28.5'	15°10.9'	33°27.2'	26°43.6'	35°45.8'
3	54°57.1'	15°41.8'	33°57.8'	27°11.6'	35°18.7'
4	55°25.7'	16°12.6'	34°28.4'	27°39.7'	34°51.8'
5	55°54.3'	16°43.5'	34°59.0'	28°07.7'	34°25.0'
6	56°22.8'	17°14.3'	35°29.6'	28°35.6'	33°58.3'
7	56°51.3'	17°45.1'	36°00.1'	29°03.5'	33°31.8'
8	57°19.8'	18°15.8'	36°30.6'	29°31.4'	33°05.4'
9	57°48.2'	18°46.6'	37°01.0'	29°59.3'	32°39.1'
10	58°16.6'	19°17.3'	37°31.5'	30°27.1'	32°13.0'
11	58°45.0'	19°47.9'	38°01.9'	30°55.0'	31°47.1'
12	59°13.4'	20°18.6'	38°32.2'	31°22.7'	31°21.3'
13	59°41.7'	20°49.2'	39°02.6'	31°50.5'	30°55.7'
14	60°10.0'	21°19.8'	39°32.9'	32°18.2'	30°30.2'
15	60°38.2'	21°50.3'	40°03.2'	32°45.9'	30°05.0'
16	61°06.5'	22°20.9'	40°33.4'	33°13.6'	29°39.9'
17	61°34.7'	22°51.4'	41°03.6'	33°41.2'	29°15.0'
18	62°02.9'	23°21.8'	41°33.8'	34°08.8'	28°50.3'
19	62°31.0'	23°52.3'	42°04.0'	34°36.4'	28°25.8'
20	62°59.1'	24°22.7'	42°34.1'	35°04.0'	28°01.5'
21	63°27.2'	24°53.1'	43°04.2'	35°31.5'	27°37.4'
22	63°55.3'	25°23.4'	43°34.3'	35°59.0'	27°13.6'
23	64°23.3'	25°53.8'	44°04.3'	36°26.5'	26°50.0'

## Mon Dec 2, 2019 UTC

UTC	+Sun Lunar Dist.	+Saturn Lunar Dist.	+Jupiter Lunar Dist.	+Venus Lunar Dist.	-Formalhaut Lunar Dist.	-Aldebaran Lunar Dist.	-Rigel Lunar Dist.
0	64°51.4'	26°24.1'	44°34.4'	36°53.9'	26°26.6'	115°16.4'	115°49.4'
1	65°19.3'	26°54.4'	45°04.4'	37°21.4'	26°03.5'	114°45.9'	115°23.6'
2	65°47.3'	27°24.6'	45°34.3'	37°48.8'	25°40.6'	114°15.4'	114°57.9'
3	66°15.2'	27°54.8'	46°04.3'	38°16.1'	25°18.0'	113°44.9'	114°32.1'
4	66°43.1'	28°25.1'	46°34.2'	38°43.5'	24°55.7'	113°14.5'	114°06.3'
5	67°11.0'	28°55.2'	47°04.1'	39°10.8'	24°33.7'	112°44.1'	113°40.5'
6	67°38.9'	29°25.4'	47°33.9'	39°38.1'	24°12.0'	112°13.7'	113°14.7'
7	68°06.7'	29°55.5'	48°03.8'	40°05.4'	23°50.6'	111°43.4'	112°48.9'
8	68°34.5'	30°25.6'	48°33.6'	40°32.7'	23°29.5'	111°13.0'	112°23.1'
9	69°02.3'	30°55.7'	49°03.4'	40°59.9'	23°08.8'	110°42.7'	111°57.3'
10	69°30.1'	31°25.8'	49°33.2'	41°27.1'	22°48.4'	110°12.4'	111°31.4'
11	69°57.8'	31°55.8'	50°02.9'	41°54.3'	22°28.4'	109°42.2'	111°05.6'
12	70°25.6'	32°25.8'	50°32.6'	42°21.4'	22°08.8'	109°11.9'	110°39.7'
13	70°53.3'	32°55.8'	51°02.3'	42°48.6'	21°49.6'	108°41.7'	110°13.8'
14	71°20.9'	33°25.8'	51°32.0'	43°15.7'	21°30.8'	108°11.5'	109°47.9'
15	71°48.6'	33°55.7'	52°01.7'	43°42.8'	21°12.4'	107°41.4'	109°22.1'
16	72°16.2'	34°25.7'	52°31.3'	44°09.9'	20°54.5'	107°11.2'	108°56.2'
17	72°43.8'	34°55.6'	53°00.9'	44°36.9'	20°37.0'	106°41.1'	108°30.3'
18	73°11.4'	35°25.5'	53°30.5'	45°04.0'	20°20.0'	106°11.0'	108°04.4'
19	73°39.0'	35°55.3'	54°00.1'	45°31.0'	20°03.6'	105°40.9'	107°38.5'
20	74°06.5'	36°25.2'	54°29.6'	45°58.0'	19°47.6'	105°10.8'	107°12.6'
21	74°34.1'	36°55.0'	54°59.2'	46°24.9'	19°32.2'	104°40.8'	106°46.6'
22	75°01.6'	37°24.8'	55°28.7'	46°51.9'	19°17.4'	104°10.8'	106°20.7'
23	75°29.1'	37°54.6'	55°58.2'	47°18.8'	19°03.2'	103°40.8'	105°54.8'

Tue Dec 3, 2019 UTC

UTC	+Sun Lunar Dist.	+Saturn Lunar Dist.	+Jupiter Lunar Dist.	+Venus Lunar Dist.	-Aldebaran Lunar Dist.	-Betelgeuse Lunar Dist.	-Rigel Lunar Dist.
0	75°56.5'	38°24.3'	56°27.6'	47°45.7'	103°10.8'	119°53.1'	105°28.9'
1	76°24.0'	38°54.1'	56°57.1'	48°12.6'	102°40.8'	119°24.5'	105°02.9'
2	76°51.4'	39°23.8'	57°26.5'	48°39.5'	102°10.9'	118°55.9'	104°37.0'
3	77°18.8'	39°53.5'	57°55.9'	49°06.4'	101°40.9'	118°27.2'	104°11.1'
4	77°46.2'	40°23.2'	58°25.3'	49°33.2'	101°11.0'	117°58.6'	103°45.2'
5	78°13.6'	40°52.9'	58°54.7'	50°00.1'	100°41.1'	117°30.0'	103°19.2'
6	78°41.0'	41°22.6'	59°24.1'	50°26.9'	100°11.2'	117°01.4'	102°53.3'
7	79°08.3'	41°52.2'	59°53.4'	50°53.7'	99°41.4'	116°32.8'	102°27.4'
8	79°35.7'	42°21.8'	60°22.8'	51°20.5'	99°11.5'	116°04.2'	102°01.4'
9	80°03.0'	42°51.5'	60°52.1'	51°47.2'	98°41.7'	115°35.6'	101°35.5'
10	80°30.3'	43°21.0'	61°21.4'	52°14.0'	98°11.8'	115°07.0'	101°09.6'
11	80°57.6'	43°50.6'	61°50.7'	52°40.7'	97°42.0'	114°38.4'	100°43.6'
12	81°24.8'	44°20.2'	62°19.9'	53°07.4'	97°12.3'	114°09.8'	100°17.7'
13	81°52.1'	44°49.8'	62°49.2'	53°34.2'	96°42.5'	113°41.2'	99°51.8'
14	82°19.4'	45°19.3'	63°18.4'	54°00.8'	96°12.7'	113°12.6'	99°25.8'
15	82°46.6'	45°48.8'	63°47.7'	54°27.5'	95°43.0'	112°44.0'	98°59.9'
16	83°13.8'	46°18.3'	64°16.9'	54°54.2'	95°13.2'	112°15.5'	98°34.0'
17	83°41.0'	46°47.8'	64°46.1'	55°20.9'	94°43.5'	111°46.9'	98°08.0'
18	84°08.2'	47°17.3'	65°15.3'	55°47.5'	94°13.8'	111°18.3'	97°42.1'
19	84°35.4'	47°46.8'	65°44.5'	56°14.1'	93°44.1'	110°49.8'	97°16.2'
20	85°02.6'	48°16.3'	66°13.6'	56°40.8'	93°14.4'	110°21.2'	96°50.3'
21	85°29.7'	48°45.7'	66°42.8'	57°07.4'	92°44.7'	109°52.7'	96°24.4'
22	85°56.9'	49°15.2'	67°11.9'	57°34.0'	92°15.1'	109°24.1'	95°58.4'
23	86°24.0'	49°44.6'	67°41.1'	58°00.6'	91°45.4'	108°55.6'	95°32.5'

Wed Dec 4, 2019 UTC

UTC	+Sun Lunar Dist.	+Saturn Lunar Dist.	+Jupiter Lunar Dist.	+Venus Lunar Dist.	-Aldebaran Lunar Dist.	-Betelgeuse Lunar Dist.	+Altair Lunar Dist.
0	86°51.1'	50°14.0'	68°10.2'	58°27.1'	91°15.8'	108°27.0'	48°33.2'
1	87°18.3'	50°43.4'	68°39.3'	58°53.7'	90°46.1'	107°58.5'	48°54.7'
2	87°45.4'	51°12.8'	69°08.4'	59°20.3'	90°16.5'	107°30.0'	49°16.3'
3	88°12.5'	51°42.2'	69°37.5'	59°46.8'	89°46.9'	107°01.4'	49°37.9'
4	88°39.6'	52°11.6'	70°06.6'	60°13.4'	89°17.3'	106°32.9'	49°59.7'
5	89°06.7'	52°41.0'	70°35.7'	60°39.9'	88°47.7'	106°04.4'	50°21.6'
6	89°33.7'	53°10.3'	71°04.8'	61°06.4'	88°18.1'	105°35.8'	50°43.5'
7	90°00.8'	53°39.7'	71°33.8'	61°33.0'	87°48.5'	105°07.3'	51°05.5'
8	90°27.9'	54°09.1'	72°02.9'	61°59.5'	87°18.9'	104°38.8'	51°27.6'
9	90°54.9'	54°38.4'	72°31.9'	62°26.0'	86°49.4'	104°10.3'	51°49.8'
10	91°22.0'	55°07.7'	73°01.0'	62°52.5'	86°19.8'	103°41.7'	52°12.1'
11	91°49.0'	55°37.1'	73°30.0'	63°19.0'	85°50.2'	103°13.2'	52°34.5'
12	92°16.1'	56°06.4'	73°59.0'	63°45.5'	85°20.7'	102°44.7'	52°56.9'
13	92°43.1'	56°35.7'	74°28.1'	64°12.0'	84°51.1'	102°16.2'	53°19.5'
14	93°10.1'	57°05.1'	74°57.1'	64°38.4'	84°21.6'	101°47.7'	53°42.1'
15	93°37.2'	57°34.4'	75°26.1'	65°04.9'	83°52.1'	101°19.2'	54°04.7'
16	94°04.2'	58°03.7'	75°55.1'	65°31.4'	83°22.5'	100°50.6'	54°27.5'
17	94°31.2'	58°33.0'	76°24.1'	65°57.9'	82°53.0'	100°22.1'	54°50.3'
18	94°58.2'	59°02.3'	76°53.1'	66°24.3'	82°23.5'	99°53.6'	55°13.2'
19	95°25.2'	59°31.6'	77°22.1'	66°50.8'	81°53.9'	99°25.1'	55°36.1'
20	95°52.2'	60°00.9'	77°51.1'	67°17.3'	81°24.4'	98°56.6'	55°59.1'
21	96°19.2'	60°30.2'	78°20.1'	67°43.7'	80°54.9'	98°28.1'	56°22.2'
22	96°46.2'	60°59.5'	78°49.1'	68°10.2'	80°25.4'	97°59.5'	56°45.4'
23	97°13.2'	61°28.8'	79°18.1'	68°36.6'	79°55.9'	97°31.0'	57°08.6'

Thu Dec 5, 2019 UTC

UTC	+Sun Lunar Dist.	+Saturn Lunar Dist.	-Aldebaran Lunar Dist.	+Jupiter Lunar Dist.	+Venus Lunar Dist.	-Betelgeuse Lunar Dist.	+Altair Lunar Dist.
0	97°40.3'	61°58.1'	79°26.3'	79°47.1'	69°03.1'	97°02.5'	57°31.9'
1	98°07.3'	62°27.4'	78°56.8'	80°16.1'	69°29.5'	96°34.0'	57°55.2'
2	98°34.3'	62°56.7'	78°27.3'	80°45.1'	69°56.0'	96°05.5'	58°18.6'
3	99°01.3'	63°25.9'	77°57.8'	81°14.1'	70°22.5'	95°36.9'	58°42.0'
4	99°28.3'	63°55.2'	77°28.3'	81°43.1'	70°48.9'	95°08.4'	59°05.5'
5	99°55.3'	64°24.5'	76°58.8'	82°12.1'	71°15.4'	94°39.9'	59°29.1'
6	100°22.3'	64°53.8'	76°29.3'	82°41.1'	71°41.8'	94°11.3'	59°52.7'
7	100°49.3'	65°23.1'	75°59.7'	83°10.1'	72°08.3'	93°42.8'	60°16.4'
8	101°16.3'	65°52.4'	75°30.2'	83°39.1'	72°34.8'	93°14.3'	60°40.1'
9	101°43.3'	66°21.7'	75°00.7'	84°08.1'	73°01.2'	92°45.7'	61°03.9'
10	102°10.3'	66°51.0'	74°31.2'	84°37.1'	73°27.7'	92°17.2'	61°27.7'
11	102°37.3'	67°20.3'	74°01.7'	85°06.1'	73°54.2'	91°48.6'	61°51.6'
12	103°04.4'	67°49.6'	73°32.1'	85°35.1'	74°20.6'	91°20.1'	62°15.6'
13	103°31.4'	68°18.9'	73°02.6'	86°04.1'	74°47.1'	90°51.5'	62°39.5'
14	103°58.4'	68°48.3'	72°33.1'	86°33.2'	75°13.6'	90°23.0'	63°03.6'
15	104°25.4'	69°17.6'	72°03.5'	87°02.2'	75°40.1'	89°54.4'	63°27.7'
16	104°52.5'	69°46.9'	71°34.0'	87°31.2'	76°06.6'	89°25.8'	63°51.8'
17	105°19.5'	70°16.2'	71°04.4'	88°00.2'	76°33.1'	88°57.3'	64°16.0'
18	105°46.6'	70°45.6'	70°34.9'	88°29.3'	76°59.6'	88°28.7'	64°40.2'
19	106°13.6'	71°14.9'	70°05.3'	88°58.3'	77°26.1'	88°00.1'	65°04.4'
20	106°40.7'	71°44.3'	69°35.7'	89°27.4'	77°52.6'	87°31.5'	65°28.7'
21	107°07.8'	72°13.6'	69°06.2'	89°56.4'	78°19.2'	87°02.9'	65°53.1'
22	107°34.8'	72°43.0'	68°36.6'	90°25.5'	78°45.7'	86°34.3'	66°17.5'
23	108°01.9'	73°12.4'	68°07.0'	90°54.6'	79°12.2'	86°05.7'	66°41.9'

Fri Dec 6, 2019 UTC

UTC	+Sun Lunar Dist.	-Aldebaran Lunar Dist.	+Saturn Lunar Dist.	+Formalhaut Lunar Dist.	-Betelgeuse Lunar Dist.	+Jupiter Lunar Dist.	-Capella Lunar Dist.
0	108°29.0'	67°37.4'	73°41.7'	31°27.7'	85°37.1'	91°23.7'	82°53.5'
1	108°56.1'	67°07.8'	74°11.1'	31°52.5'	85°08.4'	91°52.8'	82°26.6'
2	109°23.2'	66°38.2'	74°40.5'	32°17.3'	84°39.8'	92°21.9'	81°59.6'
3	109°50.3'	66°08.6'	75°09.9'	32°42.3'	84°11.2'	92°51.0'	81°32.6'
4	110°17.5'	65°38.9'	75°39.3'	33°07.5'	83°42.5'	93°20.1'	81°05.6'
5	110°44.6'	65°09.3'	76°08.8'	33°32.7'	83°13.9'	93°49.2'	80°38.6'
6	111°11.7'	64°39.6'	76°38.2'	33°58.1'	82°45.2'	94°18.3'	80°11.6'
7	111°38.9'	64°10.0'	77°07.6'	34°23.5'	82°16.6'	94°47.5'	79°44.6'
8	112°06.1'	63°40.3'	77°37.1'	34°49.1'	81°47.9'	95°16.6'	79°17.6'
9	112°33.2'	63°10.6'	78°06.5'	35°14.8'	81°19.2'	95°45.8'	78°50.6'
10	113°00.4'	62°40.9'	78°36.0'	35°40.6'	80°50.5'	96°15.0'	78°23.6'
11	113°27.6'	62°11.2'	79°05.5'	36°06.5'	80°21.8'	96°44.2'	77°56.6'
12	113°54.8'	61°41.5'	79°35.0'	36°32.5'	79°53.1'	97°13.4'	77°29.6'
13	114°22.1'	61°11.8'	80°04.5'	36°58.5'	79°24.4'	97°42.6'	77°02.6'
14	114°49.3'	60°42.1'	80°34.0'	37°24.7'	78°55.7'	98°11.8'	76°35.6'
15	115°16.6'	60°12.3'	81°03.6'	37°50.9'	78°27.0'	98°41.0'	76°08.6'
16	115°43.8'	59°42.6'	81°33.1'	38°17.3'	77°58.2'	99°10.3'	75°41.6'
17	116°11.1'	59°12.8'	82°02.7'	38°43.7'	77°29.5'	99°39.6'	75°14.6'
18	116°38.4'	58°43.0'	82°32.2'	39°10.2'	77°00.7'	100°08.8'	74°47.6'
19	117°05.7'	58°13.2'	83°01.8'	39°36.8'	76°31.9'	100°38.1'	74°20.6'
20	117°33.0'	57°43.4'	83°31.4'	40°03.4'	76°03.2'	101°07.4'	73°53.6'
21	118°00.3'	57°13.6'	84°01.1'	40°30.1'	75°34.4'	101°36.8'	73°26.6'
22	118°27.7'	56°43.7'	84°30.7'	40°56.9'	75°05.6'	102°06.1'	72°59.5'
23	118°55.1'	56°13.9'	85°00.3'	41°23.8'	74°36.8'	102°35.5'	72°32.5'

## Sat Dec 7, 2019 UTC

UTC	+Sun Lunar Dist.	-Aldebaran Lunar Dist.	+Formalhaut Lunar Dist.	-Betelgeuse Lunar Dist.	+Saturn Lunar Dist.	-Pollux Lunar Dist.	-Capella Lunar Dist.
0	119°22.4'	55°44.0'	41°50.8'	74°08.0'	85°30.0'	99°55.8'	72°05.5'
1	119°49.8'	55°14.1'	42°17.8'	73°39.1'	85°59.7'	99°26.0'	71°38.5'
2	120°17.2'	54°44.2'	42°44.9'	73°10.3'	86°29.4'	98°56.2'	71°11.5'
3	120°44.7'	54°14.3'	43°12.0'	72°41.4'	86°59.1'	98°26.4'	70°44.5'
4	121°12.1'	53°44.3'	43°39.2'	72°12.6'	87°28.8'	97°56.5'	70°17.5'
5	121°39.6'	53°14.4'	44°06.5'	71°43.7'	87°58.6'	97°26.6'	69°50.5'
6	122°07.1'	52°44.4'	44°33.9'	71°14.8'	88°28.3'	96°56.7'	69°23.5'
7	122°34.6'	52°14.4'	45°01.3'	70°45.9'	88°58.1'	96°26.8'	68°56.6'
8	123°02.1'	51°44.4'	45°28.7'	70°17.0'	89°27.9'	95°56.9'	68°29.6'
9	123°29.6'	51°14.4'	45°56.3'	69°48.1'	89°57.8'	95°26.9'	68°02.6'
10	123°57.2'	50°44.4'	46°23.8'	69°19.2'	90°27.6'	94°56.9'	67°35.6'
11	124°24.7'	50°14.3'	46°51.5'	68°50.3'	90°57.4'	94°26.9'	67°08.6'
12	124°52.3'	49°44.2'	47°19.2'	68°21.3'	91°27.3'	93°56.9'	66°41.7'
13	125°19.9'	49°14.1'	47°46.9'	67°52.4'	91°57.2'	93°26.9'	66°14.7'
14	125°47.6'	48°44.0'	48°14.7'	67°23.4'	92°27.1'	92°56.8'	65°47.7'
15	126°15.2'	48°13.9'	48°42.6'	66°54.5'	92°57.1'	92°26.8'	65°20.8'
16	126°42.9'	47°43.7'	49°10.5'	66°25.5'	93°27.0'	91°56.7'	64°53.8'
17	127°10.6'	47°13.6'	49°38.5'	65°56.5'	93°57.0'	91°26.6'	64°26.9'
18	127°38.3'	46°43.4'	50°06.5'	65°27.5'	94°27.0'	90°56.4'	63°60.0'
19	128°06.0'	46°13.2'	50°34.6'	64°58.5'	94°57.0'	90°26.3'	63°33.0'
20	128°33.8'	45°42.9'	51°02.7'	64°29.4'	95°27.1'	89°56.1'	63°06.1'
21	129°01.5'	45°12.7'	51°30.9'	64°00.4'	95°57.1'	89°25.9'	62°39.2'
22	129°29.3'	44°42.4'	51°59.1'	63°31.4'	96°27.2'	88°55.7'	62°12.3'
23	129°57.2'	44°12.1'	52°27.4'	63°02.3'	96°57.3'	88°25.4'	61°45.4'

## Sun Dec 8, 2019 UTC

UTC	-Aldebaran Lunar Dist.	+Formalhaut Lunar Dist.	-Betelgeuse Lunar Dist.	-Pollux Lunar Dist.	-Capella Lunar Dist.	+Saturn Lunar Dist.	-Procyon Lunar Dist.
0	43°41.8'	52°55.7'	62°33.2'	87°55.2'	61°18.6'	97°27.4'	88°30.5'
1	43°11.5'	53°24.1'	62°04.2'	87°24.9'	60°51.7'	97°57.6'	88°01.5'
2	42°41.1'	53°52.5'	61°35.1'	86°54.6'	60°24.8'	98°27.8'	87°32.5'
3	42°10.8'	54°20.9'	61°06.0'	86°24.2'	59°58.0'	98°58.0'	87°03.4'
4	41°40.4'	54°49.4'	60°36.9'	85°53.9'	59°31.2'	99°28.2'	86°34.4'
5	41°09.9'	55°18.0'	60°07.8'	85°23.5'	59°04.4'	99°58.4'	86°05.3'
6	40°39.5'	55°46.6'	59°38.6'	84°53.1'	58°37.6'	100°28.7'	85°36.2'
7	40°09.0'	56°15.2'	59°09.5'	84°22.7'	58°10.8'	100°59.0'	85°07.0'
8	39°38.5'	56°43.9'	58°40.4'	83°52.2'	57°44.1'	101°29.3'	84°37.9'
9	39°08.0'	57°12.7'	58°11.2'	83°21.7'	57°17.3'	101°59.7'	84°08.7'
10	38°37.5'	57°41.4'	57°42.1'	82°51.2'	56°50.6'	102°30.0'	83°39.5'
11	38°06.9'	58°10.3'	57°12.9'	82°20.7'	56°23.9'	103°00.4'	83°10.3'
12	37°36.4'	58°39.1'	56°43.7'	81°50.1'	55°57.3'	103°30.8'	82°41.1'
13	37°05.8'	59°08.0'	56°14.6'	81°19.6'	55°30.6'	104°01.3'	82°11.8'
14	36°35.1'	59°37.0'	55°45.4'	80°49.0'	55°04.0'	104°31.7'	81°42.5'
15	36°04.5'	60°06.0'	55°16.2'	80°18.3'	54°37.4'	105°02.2'	81°13.2'
16	35°33.8'	60°35.0'	54°47.0'	79°47.7'	54°10.8'	105°32.8'	80°43.9'
17	35°03.1'	61°04.1'	54°17.8'	79°17.0'	53°44.3'	106°03.3'	80°14.6'
18	34°32.4'	61°33.2'	53°48.6'	78°46.3'	53°17.8'	106°33.9'	79°45.2'
19	34°01.7'	62°02.4'	53°19.4'	78°15.6'	52°51.3'	107°04.5'	79°15.8'
20	33°30.9'	62°31.6'	52°50.2'	77°44.8'	52°24.8'	107°35.1'	78°46.4'
21	33°00.1'	63°00.8'	52°21.0'	77°14.0'	51°58.4'	108°05.7'	78°17.0'
22	32°29.3'	63°30.1'	51°51.8'	76°43.2'	51°32.0'	108°36.4'	77°47.5'
23	31°58.5'	63°59.4'	51°22.5'	76°12.4'	51°05.7'	109°07.1'	77°18.1'

Mon Dec 9, 2019 UTC

UTC	−Aldebaran Lunar Dist.	−Betelgeuse Lunar Dist.	−Pollux Lunar Dist.	+Formalhaut Lunar Dist.	−Procyon Lunar Dist.	−Capella Lunar Dist.	−Regulus Lunar Dist.
0	31°27.6'	50°53.3'	75°41.5'	64°28.8'	76°48.6'	50°39.4'	111°34.4'
1	30°56.8'	50°24.1'	75°10.7'	64°58.2'	76°19.1'	50°13.1'	111°03.5'
2	30°25.9'	49°54.9'	74°39.7'	65°27.7'	75°49.5'	49°46.9'	110°32.5'
3	29°54.9'	49°25.7'	74°08.8'	65°57.1'	75°20.0'	49°20.7'	110°01.5'
4	29°24.0'	48°56.5'	73°37.8'	66°26.7'	74°50.4'	48°54.6'	109°30.4'
5	28°53.0'	48°27.2'	73°06.8'	66°56.2'	74°20.9'	48°28.5'	108°59.3'
6	28°22.0'	47°58.0'	72°35.8'	67°25.8'	73°51.3'	48°02.5'	108°28.2'
7	27°51.0'	47°28.8'	72°04.7'	67°55.5'	73°21.6'	47°36.5'	107°57.1'
8	27°20.0'	46°59.6'	71°33.7'	68°25.1'	72°52.0'	47°10.6'	107°26.0'
9	26°48.9'	46°30.4'	71°02.6'	68°54.9'	72°22.3'	46°44.8'	106°54.8'
10	26°17.9'	46°01.3'	70°31.4'	69°24.6'	71°52.6'	46°19.0'	106°23.5'
11	25°46.8'	45°32.1'	70°00.3'	69°54.4'	71°23.0'	45°53.2'	105°52.3'
12	25°15.6'	45°02.9'	69°29.1'	70°24.2'	70°53.2'	45°27.6'	105°21.0'
13	24°44.5'	44°33.8'	68°57.8'	70°54.1'	70°23.5'	45°02.0'	104°49.7'
14	24°13.3'	44°04.6'	68°26.6'	71°24.0'	69°53.8'	44°36.4'	104°18.4'
15	23°42.2'	43°35.5'	67°55.3'	71°54.0'	69°24.0'	44°11.0'	103°47.0'
16	23°11.0'	43°06.4'	67°24.0'	72°23.9'	68°54.2'	43°45.6'	103°15.6'
17	22°39.7'	42°37.3'	66°52.7'	72°54.0'	68°24.4'	43°20.3'	102°44.2'
18	22°08.5'	42°08.2'	66°21.3'	73°24.0'	67°54.6'	42°55.1'	102°12.7'
19	21°37.3'	41°39.2'	65°49.9'	73°54.1'	67°24.8'	42°30.0'	101°41.2'
20	21°06.0'	41°10.1'	65°18.5'	74°24.2'	66°54.9'	42°05.0'	101°09.7'
21	20°34.7'	40°41.1'	64°47.1'	74°54.4'	66°25.0'	41°40.1'	100°38.2'
22	20°03.4'	40°12.1'	64°15.6'	75°24.6'	65°55.2'	41°15.3'	100°06.6'
23	19°32.1'	39°43.2'	63°44.1'	75°54.8'	65°25.3'	40°50.5'	99°35.0'

Tue Dec 10, 2019 UTC

UTC	−Aldebaran Lunar Dist.	−Pollux Lunar Dist.	−Betelgeuse Lunar Dist.	−Procyon Lunar Dist.	+Formalhaut Lunar Dist.	−Regulus Lunar Dist.	−Capella Lunar Dist.
0	19°00.8'	63°12.5'	39°14.3'	64°55.4'	76°25.1'	99°03.4'	40°25.9'
1	18°29.5'	62°41.0'	38°45.4'	64°25.5'	76°55.4'	98°31.7'	40°01.4'
2	17°58.1'	62°09.4'	38°16.5'	63°55.5'	77°25.7'	97°60.0'	39°37.1'
3	17°26.8'	61°37.8'	37°47.7'	63°25.6'	77°56.1'	97°28.3'	39°12.8'
4	16°55.5'	61°06.1'	37°18.9'	62°55.6'	78°26.5'	96°56.5'	38°48.7'
5	16°24.1'	60°34.4'	36°50.2'	62°25.7'	78°57.0'	96°24.7'	38°24.7'
6	15°52.8'	60°02.7'	36°21.5'	61°55.7'	79°27.4'	95°52.9'	38°00.9'
7	15°21.5'	59°31.0'	35°52.9'	61°25.7'	79°58.0'	95°21.0'	37°37.2'
8	14°50.2'	58°59.2'	35°24.3'	60°55.7'	80°28.5'	94°49.1'	37°13.6'
9	14°18.9'	58°27.4'	34°55.8'	60°25.7'	80°59.1'	94°17.2'	36°50.2'
10	13°47.6'	57°55.6'	34°27.3'	59°55.7'	81°29.7'	93°45.3'	36°27.0'
11	13°16.3'	57°23.8'	33°58.9'	59°25.6'	82°00.4'	93°13.3'	36°03.9'
12	12°45.1'	56°51.9'	33°30.6'	58°55.6'	82°31.0'	92°41.3'	35°41.0'
13	12°13.9'	56°20.0'	33°02.3'	58°25.6'	83°01.7'	92°09.3'	35°18.3'
14	11°42.8'	55°48.0'	32°34.2'	57°55.5'	83°32.5'	91°37.2'	34°55.8'
15	11°11.7'	55°16.1'	32°06.1'	57°25.5'	84°03.3'	91°05.1'	34°33.5'
16	10°40.8'	54°44.1'	31°38.1'	56°55.4'	84°34.1'	90°33.0'	34°11.4'
17	10°09.9'	54°12.1'	31°10.2'	56°25.3'	85°04.9'	90°00.8'	33°49.5'
18	9°39.1'	53°40.0'	30°42.3'	55°55.3'	85°35.8'	89°28.6'	33°27.9'
19	9°08.5'	53°07.9'	30°14.6'	55°25.2'	86°06.7'	88°56.4'	33°06.5'
20	8°38.0'	52°35.8'	29°47.1'	54°55.2'	86°37.7'	88°24.1'	32°45.3'
21	8°07.7'	52°03.7'	29°19.6'	54°25.1'	87°08.6'	87°51.8'	32°24.3'
22	7°37.7'	51°31.6'	28°52.2'	53°55.0'	87°39.6'	87°19.5'	32°03.7'
23	7°08.1'	50°59.4'	28°25.0'	53°25.0'	88°10.7'	86°47.2'	31°43.3'

Wed Dec 11, 2019 UTC

UTC	−Aldebaran Lunar Dist.	−Pollux Lunar Dist.	−Procyon Lunar Dist.	−Betelgeuse Lunar Dist.	−Regulus Lunar Dist.	+Formalhaut Lunar Dist.	−Capella Lunar Dist.
0	6°38.8'	50°27.2'	52°54.9'	27°58.0'	86°14.8'	88°41.7'	31°23.2'
1	6°10.0'	49°54.9'	52°24.9'	27°31.0'	85°42.4'	89°12.8'	31°03.3'
2	–	49°22.6'	51°54.8'	27°04.3'	85°09.9'	89°43.9'	30°43.8'
3	–	48°50.3'	51°24.8'	26°37.7'	84°37.5'	90°15.1'	30°24.6'
4	–	48°18.0'	50°54.7'	26°11.3'	84°05.0'	90°46.3'	30°05.8'
5	–	47°45.7'	50°24.7'	25°45.1'	83°32.4'	91°17.5'	29°47.2'
6	–	47°13.3'	49°54.7'	25°19.1'	82°59.9'	91°48.7'	29°29.0'
7	–	46°40.9'	49°24.7'	24°53.4'	82°27.3'	92°20.0'	29°11.2'
8	–	46°08.5'	48°54.7'	24°27.8'	81°54.7'	92°51.3'	28°53.8'
9	–	45°36.0'	48°24.8'	24°02.5'	81°22.0'	93°22.6'	28°36.7'
10	–	45°03.6'	47°54.8'	23°37.5'	80°49.3'	93°54.0'	28°20.1'
11	–	44°31.1'	47°24.9'	23°12.7'	80°16.6'	94°25.3'	28°03.9'
12	–	43°58.5'	46°55.0'	22°48.3'	79°43.9'	94°56.8'	27°48.1'
13	–	43°26.0'	46°25.1'	22°24.1'	79°11.1'	95°28.2'	27°32.7'
14	–	42°53.4'	45°55.2'	22°00.3'	78°38.3'	95°59.6'	27°17.8'
15	–	42°20.8'	45°25.4'	21°36.9'	78°05.5'	96°31.1'	27°03.4'
16	–	41°48.2'	44°55.6'	21°13.8'	77°32.6'	97°02.6'	26°49.5'
17	–	41°15.6'	44°25.8'	20°51.1'	76°59.7'	97°34.2'	26°36.1'
18	–	40°42.9'	43°56.0'	20°28.9'	76°26.8'	98°05.7'	26°23.2'
19	–	40°10.2'	43°26.3'	20°07.1'	75°53.8'	98°37.3'	26°10.8'
20	–	39°37.5'	42°56.7'	19°45.7'	75°20.8'	99°08.9'	25°59.0'
21	6°15.6'	39°04.8'	42°27.0'	19°24.9'	74°47.8'	99°40.6'	25°47.7'
22	6°45.1'	38°32.0'	41°57.4'	19°04.6'	74°14.8'	100°12.2'	25°37.1'
23	7°15.1'	37°59.3'	41°27.9'	18°44.9'	73°41.7'	100°43.9'	25°27.0'

Thu Dec 12, 2019 UTC

UTC	+Aldebaran Lunar Dist.	−Pollux Lunar Dist.	−Regulus Lunar Dist.	−Procyon Lunar Dist.	+Formalhaut Lunar Dist.	−Betelgeuse Lunar Dist.	+Achernar Lunar Dist.
0	7°45.5'	37°26.5'	73°08.6'	40°58.4'	101°15.6'	18°25.8'	89°03.4'
1	8°16.4'	36°53.7'	72°35.5'	40°29.0'	101°47.3'	18°07.4'	89°22.7'
2	8°47.5'	36°20.8'	72°02.4'	39°59.6'	102°19.1'	17°49.6'	89°42.0'
3	9°18.9'	35°48.0'	71°29.2'	39°30.3'	102°50.9'	17°32.5'	90°01.3'
4	9°50.6'	35°15.1'	70°56.0'	39°01.0'	103°22.7'	17°16.1'	90°20.7'
5	10°22.4'	34°42.2'	70°22.7'	38°31.8'	103°54.5'	–	90°40.0'
6	10°54.4'	34°09.4'	69°49.5'	38°02.7'	104°26.3'	–	90°59.4'
7	11°26.6'	33°36.4'	69°16.2'	37°33.6'	104°58.1'	–	91°18.8'
8	11°58.9'	33°03.5'	68°42.9'	37°04.6'	105°30.0'	–	91°38.1'
9	12°31.3'	32°30.6'	68°09.5'	36°35.7'	106°01.9'	–	91°57.5'
10	13°03.9'	31°57.6'	67°36.1'	36°06.9'	106°33.8'	–	92°17.0'
11	13°36.5'	31°24.7'	67°02.7'	35°38.2'	107°05.7'	–	92°36.4'
12	14°09.2'	30°51.7'	66°29.3'	35°09.6'	107°37.7'	–	92°55.8'
13	14°42.0'	30°18.7'	65°55.9'	34°41.1'	108°09.6'	–	93°15.2'
14	15°14.9'	29°45.7'	65°22.4'	34°12.7'	108°41.6'	–	93°34.6'
15	15°47.9'	29°12.7'	64°48.9'	33°44.4'	109°13.6'	–	93°54.1'
16	16°20.9'	28°39.7'	64°15.3'	33°16.3'	109°45.6'	–	94°13.5'
17	16°54.0'	28°06.7'	63°41.8'	32°48.3'	110°17.6'	–	94°32.9'
18	17°27.1'	27°33.7'	63°08.2'	32°20.4'	110°49.6'	–	94°52.4'
19	18°00.4'	27°00.7'	62°34.6'	31°52.6'	111°21.7'	–	95°11.8'
20	18°33.6'	26°27.7'	62°01.0'	31°25.0'	111°53.7'	–	95°31.2'
21	19°06.9'	25°54.7'	61°27.3'	30°57.6'	112°25.8'	–	95°50.6'
22	19°40.3'	25°21.7'	60°53.6'	30°30.3'	112°57.9'	–	96°10.0'
23	20°13.7'	24°48.7'	60°19.9'	30°03.2'	113°30.0'	–	96°29.4'

Fri Dec 13, 2019 UTC

UTC	+Aldebaran Lunar Dist.	-Pollux Lunar Dist.	-Regulus Lunar Dist.	-Procyon Lunar Dist.	-Spica Lunar Dist.	+Formalhaut Lunar Dist.	-Arcturus Lunar Dist.
0	20°47.2'	24°15.8'	59°46.2'	29°36.3'	113°43.1'	114°02.1'	110°60.0'
1	21°20.7'	23°42.8'	59°12.4'	29°09.6'	113°09.6'	114°34.2'	110°30.0'
2	21°54.2'	23°09.8'	58°38.6'	28°43.1'	112°36.0'	115°06.3'	109°59.9'
3	22°27.8'	22°36.9'	58°04.8'	28°16.9'	112°02.4'	115°38.4'	109°29.8'
4	23°01.4'	22°04.0'	57°31.0'	27°50.8'	111°28.8'	116°10.6'	108°59.7'
5	23°35.1'	21°31.1'	56°57.2'	27°25.0'	110°55.2'	116°42.7'	108°29.5'
6	24°08.8'	20°58.3'	56°23.3'	26°59.5'	110°21.5'	117°14.8'	107°59.3'
7	24°42.5'	20°25.4'	55°49.4'	26°34.3'	109°47.8'	117°47.0'	107°29.0'
8	25°16.2'	19°52.7'	55°15.5'	26°09.3'	109°14.1'	118°19.1'	106°58.7'
9	25°50.0'	19°19.9'	54°41.5'	25°44.6'	108°40.3'	118°51.3'	106°28.3'
10	26°23.9'	18°47.2'	54°07.6'	25°20.3'	108°06.6'	119°23.5'	105°57.9'
11	26°57.7'	18°14.6'	53°33.6'	24°56.3'	107°32.8'	119°55.6'	105°27.4'
12	27°31.6'	17°42.1'	52°59.6'	24°32.6'	106°58.9'	120°27.8'	104°57.0'
13	28°05.6'	17°09.6'	52°25.6'	24°09.3'	106°25.1'	120°59.9'	104°26.4'
14	28°39.5'	16°37.2'	51°51.5'	23°46.5'	105°51.2'	121°32.1'	103°55.9'
15	29°13.5'	16°04.9'	51°17.5'	23°24.0'	105°17.3'	122°04.2'	103°25.3'
16	29°47.5'	15°32.7'	50°43.4'	23°02.0'	104°43.4'	122°36.4'	102°54.6'
17	30°21.6'	15°00.7'	50°09.3'	22°40.4'	104°09.4'	123°08.5'	102°24.0'
18	30°55.6'	14°28.7'	49°35.1'	22°19.3'	103°35.5'	123°40.7'	101°53.3'
19	31°29.7'	13°57.0'	49°01.0'	21°58.8'	103°01.5'	124°12.8'	101°22.5'
20	32°03.9'	13°25.4'	48°26.8'	21°38.7'	102°27.5'	124°44.9'	100°51.8'
21	32°38.0'	12°54.0'	47°52.6'	21°19.3'	101°53.5'	125°17.0'	100°21.0'
22	33°12.2'	12°22.9'	47°18.4'	21°00.4'	101°19.4'	125°49.1'	99°50.1'
23	33°46.4'	11°52.0'	46°44.2'	20°42.2'	100°45.3'	126°21.2'	99°19.3'

Sat Dec 14, 2019 UTC

UTC	+Aldebaran Lunar Dist.	-Regulus Lunar Dist.	-Pollux Lunar Dist.	-Spica Lunar Dist.	+Betelgeuse Lunar Dist.	-Arcturus Lunar Dist.	+Rigel Lunar Dist.
0	34°20.6'	46°10.0'	11°21.5'	100°11.2'	22°07.9'	98°48.4'	40°35.8'
1	34°54.9'	45°35.7'	10°51.3'	99°37.1'	22°32.9'	98°17.5'	40°58.7'
2	35°29.1'	45°01.5'	10°21.5'	99°03.0'	22°58.4'	97°46.5'	41°21.9'
3	36°03.4'	44°27.2'	9°52.2'	98°28.8'	23°24.2'	97°15.5'	41°45.4'
4	36°37.7'	43°52.9'	9°23.5'	97°54.6'	23°50.3'	96°44.6'	42°09.0'
5	37°12.1'	43°18.6'	8°55.4'	97°20.4'	24°16.8'	96°13.5'	42°32.9'
6	37°46.4'	42°44.2'	–	96°46.2'	24°43.7'	95°42.5'	42°56.9'
7	38°20.8'	42°09.9'	–	96°12.0'	25°10.8'	95°11.4'	43°21.2'
8	38°55.2'	41°35.5'	–	95°37.7'	25°38.2'	94°40.3'	43°45.7'
9	39°29.7'	41°01.1'	–	95°03.5'	26°06.0'	94°09.2'	44°10.3'
10	40°04.1'	40°26.7'	–	94°29.2'	26°33.9'	93°38.1'	44°35.2'
11	40°38.6'	39°52.3'	–	93°54.9'	27°02.1'	93°06.9'	45°00.2'
12	41°13.1'	39°17.9'	–	93°20.5'	27°30.6'	92°35.7'	45°25.4'
13	41°47.6'	38°43.5'	–	92°46.2'	27°59.3'	92°04.5'	45°50.8'
14	42°22.1'	38°09.0'	–	92°11.8'	28°28.2'	91°33.3'	46°16.3'
15	42°56.7'	37°34.6'	–	91°37.4'	28°57.3'	91°02.1'	46°42.0'
16	43°31.2'	37°00.1'	–	91°03.0'	29°26.6'	90°30.9'	47°07.9'
17	44°05.8'	36°25.6'	–	90°28.6'	29°56.1'	89°59.6'	47°33.9'
18	44°40.4'	35°51.1'	–	89°54.2'	30°25.8'	89°28.3'	48°00.1'
19	45°15.0'	35°16.6'	–	89°19.8'	30°55.6'	88°57.0'	48°26.4'
20	45°49.7'	34°42.1'	–	88°45.3'	31°25.6'	88°25.7'	48°52.9'
21	46°24.3'	34°07.6'	–	88°10.8'	31°55.8'	87°54.4'	49°19.5'
22	46°59.0'	33°33.1'	–	87°36.3'	32°26.1'	87°23.1'	49°46.2'
23	47°33.7'	32°58.5'	–	87°01.8'	32°56.6'	86°51.7'	50°13.1'

## Sun Dec 15, 2019 UTC

UTC	−Regulus Lunar Dist.	+Aldebaran Lunar Dist.	+Betelgeuse Lunar Dist.	−Spica Lunar Dist.	+Capella Lunar Dist.	−Arcturus Lunar Dist.	−Mars Lunar Dist.
0	32°24.0′	48°08.4′	33°27.2′	86°27.3′	40°27.7′	86°20.4′	109°15.1′
1	31°49.4′	48°43.1′	33°57.9′	85°52.8′	40°54.7′	85°49.0′	108°42.0′
2	31°14.9′	49°17.8′	34°28.8′	85°18.2′	41°21.9′	85°17.7′	108°08.9′
3	30°40.3′	49°52.6′	34°59.7′	84°43.7′	41°49.3′	84°46.3′	107°35.8′
4	30°05.7′	50°27.4′	35°30.8′	84°09.1′	42°16.8′	84°14.9′	107°02.7′
5	29°31.2′	51°02.1′	36°02.0′	83°34.5′	42°44.5′	83°43.6′	106°29.6′
6	28°56.6′	51°36.9′	36°33.3′	82°59.9′	43°12.3′	83°12.2′	105°56.5′
7	28°22.0′	52°11.7′	37°04.8′	82°25.3′	43°40.3′	82°40.8′	105°23.3′
8	27°47.5′	52°46.6′	37°36.3′	81°50.7′	44°08.4′	82°09.4′	104°50.2′
9	27°12.9′	53°21.4′	38°07.9′	81°16.1′	44°36.7′	81°38.0′	104°17.0′
10	26°38.3′	53°56.3′	38°39.6′	80°41.4′	45°05.1′	81°06.6′	103°43.8′
11	26°03.7′	54°31.1′	39°11.4′	80°06.8′	45°33.6′	80°35.2′	103°10.6′
12	25°29.2′	55°06.0′	39°43.3′	79°32.1′	46°02.2′	80°03.8′	102°37.4′
13	24°54.6′	55°40.9′	40°15.2′	78°57.4′	46°31.0′	79°32.4′	102°04.2′
14	24°20.1′	56°15.8′	40°47.2′	78°22.7′	46°59.9′	79°01.0′	101°31.0′
15	23°45.5′	56°50.7′	41°19.4′	77°48.0′	47°28.9′	78°29.6′	100°57.7′
16	23°11.0′	57°25.6′	41°51.5′	77°13.3′	47°58.0′	77°58.2′	100°24.5′
17	22°36.5′	58°00.6′	42°23.8′	76°38.6′	48°27.2′	77°26.9′	99°51.2′
18	22°01.9′	58°35.5′	42°56.1′	76°03.9′	48°56.5′	76°55.5′	99°17.9′
19	21°27.4′	59°10.5′	43°28.5′	75°29.1′	49°26.0′	76°24.1′	98°44.6′
20	20°53.0′	59°45.5′	44°01.0′	74°54.4′	49°55.5′	75°52.7′	98°11.3′
21	20°18.5′	60°20.4′	44°33.5′	74°19.6′	50°25.1′	75°21.4′	97°38.0′
22	19°44.1′	60°55.4′	45°06.1′	73°44.9′	50°54.8′	74°50.1′	97°04.7′
23	19°09.6′	61°30.4′	45°38.7′	73°10.1′	51°24.6′	74°18.7′	96°31.4′

## Mon Dec 16, 2019 UTC

UTC	−Regulus Lunar Dist.	+Pollux Lunar Dist.	+Aldebaran Lunar Dist.	+Betelgeuse Lunar Dist.	−Spica Lunar Dist.	+Capella Lunar Dist.	−Arcturus Lunar Dist.
0	18°35.3′	18°30.0′	62°05.5′	46°11.4′	72°35.3′	51°54.5′	73°47.4′
1	18°00.9′	19°03.6′	62°40.5′	46°44.1′	72°00.5′	52°24.4′	73°16.1′
2	17°26.6′	19°37.3′	63°15.5′	47°16.9′	71°25.7′	52°54.5′	72°44.8′
3	16°52.3′	20°11.1′	63°50.6′	47°49.8′	70°50.9′	53°24.6′	72°13.5′
4	16°18.1′	20°44.9′	64°25.6′	48°22.7′	70°16.1′	53°54.8′	71°42.3′
5	15°44.0′	21°18.9′	65°00.7′	48°55.6′	69°41.3′	54°25.1′	71°11.0′
6	15°09.9′	21°52.9′	65°35.8′	49°28.6′	69°06.5′	54°55.5′	70°39.8′
7	14°35.8′	22°26.9′	66°10.8′	50°01.6′	68°31.7′	55°25.9′	70°08.6′
8	14°01.9′	23°01.1′	66°45.9′	50°34.7′	67°56.9′	55°56.4′	69°37.4′
9	13°28.0′	23°35.3′	67°21.0′	51°07.8′	67°22.0′	56°26.9′	69°06.2′
10	12°54.3′	24°09.5′	67°56.1′	51°40.9′	66°47.2′	56°57.6′	68°35.1′
11	12°20.7′	24°43.8′	68°31.2′	52°14.1′	66°12.3′	57°28.2′	68°04.0′
12	11°47.2′	25°18.1′	69°06.4′	52°47.3′	65°37.5′	57°59.0′	67°32.9′
13	11°13.9′	25°52.5′	69°41.5′	53°20.6′	65°02.6′	58°29.8′	67°01.8′
14	10°40.7′	26°26.9′	70°16.6′	53°53.9′	64°27.8′	59°00.7′	66°30.8′
15	10°07.8′	27°01.3′	70°51.8′	54°27.2′	63°52.9′	59°31.6′	65°59.8′
16	9°35.2′	27°35.8′	71°26.9′	55°00.6′	63°18.1′	60°02.5′	65°28.8′
17	9°02.8′	28°10.3′	72°02.1′	55°34.0′	62°43.2′	60°33.6′	64°57.8′
18	8°30.9′	28°44.9′	72°37.2′	56°07.4′	62°08.3′	61°04.6′	64°26.9′
19	7°59.4′	29°19.5′	73°12.4′	56°40.9′	61°33.5′	61°35.8′	63°56.0′
20	7°28.4′	29°54.1′	73°47.6′	57°14.4′	60°58.6′	62°06.9′	63°25.2′
21	–	30°28.7′	74°22.8′	57°47.9′	60°23.7′	62°38.2′	62°54.4′
22	–	31°03.4′	74°58.0′	58°21.4′	59°48.8′	63°09.4′	62°23.6′
23	–	31°38.0′	75°33.1′	58°55.0′	59°14.0′	63°40.7′	61°52.9′



Tue Dec 17, 2019 UTC

UTC	-Sun Lunar Dist.	+Pollux Lunar Dist.	-Spica Lunar Dist.	+Betelgeuse Lunar Dist.	+Aldebaran Lunar Dist.	+Procyon Lunar Dist.	-Mars Lunar Dist.
0	118°55.6'	32°12.8'	58°39.1'	59°28.5'	76°08.3'	35°27.1'	82°35.5'
1	118°22.9'	32°47.5'	58°04.2'	60°02.2'	76°43.5'	35°57.3'	82°01.9'
2	117°50.2'	33°22.2'	57°29.3'	60°35.8'	77°18.8'	36°27.6'	81°28.4'
3	117°17.4'	33°57.0'	56°54.5'	61°09.5'	77°54.0'	36°58.1'	80°54.9'
4	116°44.7'	34°31.8'	56°19.6'	61°43.1'	78°29.2'	37°28.7'	80°21.4'
5	116°12.0'	35°06.6'	55°44.7'	62°16.8'	79°04.4'	37°59.3'	79°47.8'
6	115°39.3'	35°41.4'	55°09.9'	62°50.6'	79°39.6'	38°30.2'	79°14.3'
7	115°06.5'	36°16.3'	54°35.0'	63°24.3'	80°14.9'	39°01.1'	78°40.7'
8	114°33.8'	36°51.1'	54°00.1'	63°58.1'	80°50.1'	39°32.1'	78°07.2'
9	114°01.0'	37°26.0'	53°25.2'	64°31.8'	81°25.3'	40°03.2'	77°33.6'
10	113°28.3'	38°00.9'	52°50.4'	65°05.6'	82°00.6'	40°34.4'	77°00.1'
11	112°55.6'	38°35.8'	52°15.5'	65°39.5'	82°35.8'	41°05.8'	76°26.5'
12	112°22.8'	39°10.7'	51°40.7'	66°13.3'	83°11.1'	41°37.2'	75°53.0'
13	111°50.0'	39°45.6'	51°05.8'	66°47.1'	83°46.3'	42°08.7'	75°19.4'
14	111°17.3'	40°20.6'	50°31.0'	67°21.0'	84°21.6'	42°40.2'	74°45.8'
15	110°44.5'	40°55.5'	49°56.1'	67°54.9'	84°56.9'	43°11.9'	74°12.3'
16	110°11.8'	41°30.5'	49°21.3'	68°28.8'	85°32.1'	43°43.6'	73°38.7'
17	109°39.0'	42°05.5'	48°46.5'	69°02.7'	86°07.4'	44°15.4'	73°05.1'
18	109°06.2'	42°40.4'	48°11.6'	69°36.6'	86°42.7'	44°47.3'	72°31.5'
19	108°33.4'	43°15.4'	47°36.8'	70°10.5'	87°17.9'	45°19.3'	71°58.0'
20	108°00.7'	43°50.4'	47°02.0'	70°44.5'	87°53.2'	45°51.3'	71°24.4'
21	107°27.9'	44°25.5'	46°27.2'	71°18.4'	88°28.5'	46°23.4'	70°50.8'
22	106°55.1'	45°00.5'	45°52.4'	71°52.4'	89°03.8'	46°55.5'	70°17.2'
23	106°22.3'	45°35.5'	45°17.6'	72°26.4'	89°39.0'	47°27.7'	69°43.6'

Wed Dec 18, 2019 UTC

UTC	-Sun Lunar Dist.	+Regulus Lunar Dist.	+Pollux Lunar Dist.	-Spica Lunar Dist.	+Procyon Lunar Dist.	+Betelgeuse Lunar Dist.	-Mars Lunar Dist.
0	105°49.5'	10°36.1'	46°10.5'	44°42.8'	47°60.0'	73°00.4'	69°10.0'
1	105°16.7'	11°09.4'	46°45.6'	44°08.1'	48°32.3'	73°34.4'	68°36.4'
2	104°44.0'	11°42.8'	47°20.6'	43°33.3'	49°04.7'	74°08.4'	68°02.9'
3	104°11.2'	12°16.4'	47°55.7'	42°58.5'	49°37.1'	74°42.4'	67°29.3'
4	103°38.4'	12°50.2'	48°30.7'	42°23.8'	50°09.6'	75°16.4'	66°55.7'
5	103°05.6'	13°24.1'	49°05.8'	41°49.1'	50°42.1'	75°50.5'	66°22.1'
6	102°32.8'	13°58.1'	49°40.9'	41°14.4'	51°14.7'	76°24.5'	65°48.5'
7	101°60.0'	14°32.2'	50°16.0'	40°39.7'	51°47.3'	76°58.5'	65°14.9'
8	101°27.2'	15°06.4'	50°51.1'	40°05.0'	52°19.9'	77°32.6'	64°41.3'
9	100°54.4'	15°40.7'	51°26.2'	39°30.3'	52°52.6'	78°06.7'	64°07.7'
10	100°21.6'	16°15.1'	52°01.2'	38°55.7'	53°25.4'	78°40.7'	63°34.1'
11	99°48.8'	16°49.5'	52°36.3'	38°21.0'	53°58.1'	79°14.8'	63°00.5'
12	99°16.0'	17°24.0'	53°11.5'	37°46.4'	54°30.9'	79°48.9'	62°26.9'
13	98°43.2'	17°58.6'	53°46.6'	37°11.8'	55°03.8'	80°23.0'	61°53.3'
14	98°10.4'	18°33.2'	54°21.7'	36°37.2'	55°36.7'	80°57.1'	61°19.7'
15	97°37.6'	19°07.8'	54°56.8'	36°02.7'	56°09.6'	81°31.2'	60°46.1'
16	97°04.8'	19°42.5'	55°31.9'	35°28.1'	56°42.5'	82°05.3'	60°12.6'
17	96°32.0'	20°17.2'	56°07.0'	34°53.6'	57°15.5'	82°39.4'	59°39.0'
18	95°59.2'	20°52.0'	56°42.2'	34°19.2'	57°48.5'	83°13.5'	59°05.4'
19	95°26.4'	21°26.8'	57°17.3'	33°44.7'	58°21.6'	83°47.6'	58°31.8'
20	94°53.6'	22°01.6'	57°52.4'	33°10.3'	58°54.6'	84°21.7'	57°58.2'
21	94°20.8'	22°36.4'	58°27.5'	32°35.9'	59°27.7'	84°55.8'	57°24.6'
22	93°48.0'	23°11.3'	59°02.7'	32°01.5'	60°00.8'	85°29.9'	56°51.0'
23	93°15.2'	23°46.1'	59°37.8'	31°27.1'	60°34.0'	86°04.0'	56°17.4'

Thu Dec 19, 2019 UTC

UTC	−Sun Lunar Dist.	+Regulus Lunar Dist.	−Spica Lunar Dist.	+Pollux Lunar Dist.	−Mars Lunar Dist.	−Antares Lunar Dist.	+Procyon Lunar Dist.
0	92°42.4'	24°21.1'	30°52.8'	60°13.0'	55°43.9'	76°30.4'	61°07.1'
1	92°09.6'	24°56.0'	30°18.6'	60°48.1'	55°10.3'	75°55.4'	61°40.3'
2	91°36.8'	25°30.9'	29°44.3'	61°23.2'	54°36.7'	75°20.3'	62°13.6'
3	91°04.0'	26°05.9'	29°10.1'	61°58.4'	54°03.1'	74°45.3'	62°46.8'
4	90°31.2'	26°40.8'	28°36.0'	62°33.5'	53°29.6'	74°10.2'	63°20.0'
5	89°58.4'	27°15.8'	28°01.9'	63°08.7'	52°56.0'	73°35.2'	63°53.3'
6	89°25.6'	27°50.8'	27°27.8'	63°43.8'	52°22.4'	73°00.2'	64°26.6'
7	88°52.8'	28°25.8'	26°53.8'	64°19.0'	51°48.8'	72°25.1'	64°59.9'
8	88°20.0'	29°00.8'	26°19.9'	64°54.1'	51°15.3'	71°50.1'	65°33.2'
9	87°47.2'	29°35.9'	25°46.0'	65°29.3'	50°41.7'	71°15.1'	66°06.6'
10	87°14.4'	30°10.9'	25°12.2'	66°04.4'	50°08.2'	70°40.0'	66°39.9'
11	86°41.7'	30°45.9'	24°38.4'	66°39.5'	49°34.6'	70°05.0'	67°13.3'
12	86°08.9'	31°21.0'	24°04.7'	67°14.7'	49°01.1'	69°30.0'	67°46.7'
13	85°36.1'	31°56.0'	23°31.1'	67°49.8'	48°27.5'	68°55.0'	68°20.1'
14	85°03.3'	32°31.1'	22°57.6'	68°25.0'	47°54.0'	68°20.0'	68°53.5'
15	84°30.5'	33°06.2'	22°24.2'	69°00.1'	47°20.4'	67°45.0'	69°27.0'
16	83°57.8'	33°41.2'	21°50.8'	69°35.3'	46°46.9'	67°10.0'	70°00.4'
17	83°25.0'	34°16.3'	21°17.6'	70°10.4'	46°13.4'	66°35.0'	70°33.8'
18	82°52.2'	34°51.4'	20°44.5'	70°45.6'	45°39.9'	65°60.0'	71°07.3'
19	82°19.4'	35°26.5'	20°11.5'	71°20.7'	45°06.3'	65°25.0'	71°40.8'
20	81°46.7'	36°01.6'	19°38.6'	71°55.8'	44°32.8'	64°50.0'	72°14.3'
21	81°13.9'	36°36.7'	19°05.9'	72°31.0'	43°59.3'	64°15.0'	72°47.8'
22	80°41.2'	37°11.8'	18°33.3'	73°06.1'	43°25.8'	63°40.1'	73°21.3'
23	80°08.4'	37°46.9'	18°00.9'	73°41.2'	42°52.3'	63°05.1'	73°54.8'

Fri Dec 20, 2019 UTC

UTC	−Sun Lunar Dist.	+Regulus Lunar Dist.	−Spica Lunar Dist.	−Mars Lunar Dist.	−Antares Lunar Dist.	+Pollux Lunar Dist.	+Procyon Lunar Dist.
0	79°35.6'	38°22.0'	17°28.6'	42°18.8'	62°30.1'	74°16.4'	74°28.3'
1	79°02.9'	38°57.1'	16°56.6'	41°45.3'	61°55.2'	74°51.5'	75°01.8'
2	78°30.1'	39°32.2'	16°24.8'	41°11.8'	61°20.3'	75°26.6'	75°35.3'
3	77°57.4'	40°07.3'	15°53.2'	40°38.4'	60°45.3'	76°01.7'	76°08.9'
4	77°24.7'	40°42.4'	15°21.9'	40°04.9'	60°10.4'	76°36.9'	76°42.4'
5	76°51.9'	41°17.5'	14°50.9'	39°31.4'	59°35.5'	77°12.0'	77°16.0'
6	76°19.2'	41°52.6'	14°20.2'	38°58.0'	59°00.6'	77°47.1'	77°49.5'
7	75°46.5'	42°27.7'	13°49.9'	38°24.5'	58°25.7'	78°22.2'	78°23.1'
8	75°13.7'	43°02.9'	13°20.0'	37°51.1'	57°50.8'	78°57.3'	78°56.6'
9	74°41.0'	43°38.0'	12°50.5'	37°17.7'	57°15.9'	79°32.4'	79°30.2'
10	74°08.3'	44°13.1'	12°21.5'	36°44.2'	56°41.0'	80°07.5'	80°03.7'
11	73°35.6'	44°48.2'	11°53.1'	36°10.8'	56°06.1'	80°42.6'	80°37.3'
12	73°02.9'	45°23.3'	11°25.3'	35°37.4'	55°31.3'	81°17.7'	81°10.9'
13	72°30.2'	45°58.4'	10°58.2'	35°04.0'	54°56.4'	81°52.8'	81°44.4'
14	71°57.5'	46°33.5'	−	34°30.6'	54°21.6'	82°27.9'	82°18.0'
15	71°24.8'	47°08.6'	−	33°57.2'	53°46.8'	83°03.0'	82°51.6'
16	70°52.1'	47°43.7'	−	33°23.9'	53°12.0'	83°38.1'	83°25.1'
17	70°19.4'	48°18.8'	−	32°50.5'	52°37.1'	84°13.1'	83°58.7'
18	69°46.7'	48°53.9'	−	32°17.2'	52°02.4'	84°48.2'	84°32.3'
19	69°14.0'	49°29.0'	−	31°43.8'	51°27.6'	85°23.3'	85°05.8'
20	68°41.3'	50°04.1'	−	31°10.5'	50°52.8'	85°58.3'	85°39.4'
21	68°08.7'	50°39.1'	−	30°37.2'	50°18.0'	86°33.4'	86°13.0'
22	67°36.0'	51°14.2'	−	30°03.9'	49°43.3'	87°08.4'	86°46.5'
23	67°03.4'	51°49.3'	−	29°30.6'	49°08.6'	87°43.5'	87°20.1'

## Sat Dec 21, 2019 UTC

UTC	−Sun Lunar Dist.	−Mars Lunar Dist.	−Antares Lunar Dist.	+Regulus Lunar Dist.	+Pollux Lunar Dist.	+Procyon Lunar Dist.	+Betelgeuse Lunar Dist.
0	66°30.7'	28°57.3'	48°33.9'	52°24.4'	88°18.5'	87°53.6'	113°50.0'
1	65°58.1'	28°24.1'	47°59.2'	52°59.4'	88°53.6'	88°27.1'	114°23.7'
2	65°25.4'	27°50.8'	47°24.5'	53°34.5'	89°28.6'	89°00.7'	114°57.4'
3	64°52.8'	27°17.6'	46°49.8'	54°09.6'	90°03.6'	89°34.2'	115°31.1'
4	64°20.2'	26°44.4'	46°15.1'	54°44.6'	90°38.6'	90°07.8'	116°04.8'
5	63°47.6'	26°11.2'	45°40.5'	55°19.7'	91°13.6'	90°41.3'	116°38.4'
6	63°14.9'	25°38.0'	45°05.9'	55°54.7'	91°48.6'	91°14.8'	117°12.0'
7	62°42.3'	25°04.8'	44°31.3'	56°29.8'	92°23.6'	91°48.3'	117°45.6'
8	62°09.7'	24°31.7'	43°56.7'	57°04.8'	92°58.6'	92°21.8'	118°19.2'
9	61°37.1'	23°58.6'	43°22.1'	57°39.8'	93°33.6'	92°55.3'	118°52.8'
10	61°04.6'	23°25.5'	42°47.6'	58°14.8'	94°08.6'	93°28.8'	119°26.3'
11	60°32.0'	22°52.4'	42°13.0'	58°49.9'	94°43.5'	94°02.3'	119°59.8'
12	59°59.4'	22°19.4'	41°38.5'	59°24.9'	95°18.5'	94°35.7'	120°33.3'
13	59°26.8'	21°46.3'	41°04.0'	59°59.9'	95°53.5'	95°09.2'	121°06.7'
14	58°54.3'	21°13.4'	40°29.6'	60°34.9'	96°28.4'	95°42.6'	121°40.1'
15	58°21.7'	20°40.4'	39°55.1'	61°09.9'	97°03.3'	96°16.1'	122°13.5'
16	57°49.2'	20°07.5'	39°20.7'	61°44.9'	97°38.3'	96°49.5'	122°46.9'
17	57°16.7'	19°34.6'	38°46.3'	62°19.8'	98°13.2'	97°22.9'	123°20.2'
18	56°44.1'	19°01.7'	38°11.9'	62°54.8'	98°48.1'	97°56.3'	123°53.5'
19	56°11.6'	18°28.9'	37°37.6'	63°29.8'	99°23.0'	98°29.7'	124°26.8'
20	55°39.1'	17°56.1'	37°03.3'	64°04.7'	99°57.9'	99°03.1'	125°00.1'
21	55°06.6'	17°23.3'	36°29.0'	64°39.7'	100°32.8'	99°36.4'	125°33.3'
22	54°34.1'	16°50.6'	35°54.7'	65°14.6'	101°07.7'	100°09.8'	126°06.4'
23	54°01.6'	16°18.0'	35°20.5'	65°49.6'	101°42.5'	100°43.1'	126°39.6'

## Sun Dec 22, 2019 UTC

UTC	−Sun Lunar Dist.	−Mars Lunar Dist.	−Antares Lunar Dist.	+Spica Lunar Dist.	+Regulus Lunar Dist.	+Pollux Lunar Dist.	+Procyon Lunar Dist.
0	53°29.2'	15°45.4'	34°46.3'	14°03.4'	66°24.5'	102°17.4'	101°16.4'
1	52°56.7'	15°12.9'	34°12.1'	14°33.6'	66°59.4'	102°52.2'	101°49.7'
2	52°24.2'	14°40.4'	33°38.0'	15°04.2'	67°34.3'	103°27.1'	102°23.0'
3	51°51.8'	14°08.1'	33°03.9'	15°35.1'	68°09.2'	104°01.9'	102°56.3'
4	51°19.4'	13°35.8'	32°29.8'	16°06.2'	68°44.1'	104°36.7'	103°29.5'
5	50°46.9'	13°03.6'	31°55.8'	16°37.6'	69°19.0'	105°11.5'	104°02.8'
6	50°14.5'	12°31.5'	31°21.8'	17°09.2'	69°53.9'	105°46.3'	104°36.0'
7	49°42.1'	11°59.5'	30°47.9'	17°41.0'	70°28.7'	106°21.1'	105°09.2'
8	49°09.7'	11°27.6'	30°14.0'	18°13.0'	71°03.6'	106°55.9'	105°42.4'
9	48°37.3'	10°55.9'	29°40.1'	18°45.1'	71°38.4'	107°30.6'	106°15.5'
10	48°05.0'	10°24.4'	29°06.3'	19°17.4'	72°13.2'	108°05.4'	106°48.7'
11	47°32.6'	9°53.0'	28°32.6'	19°49.8'	72°48.1'	108°40.1'	107°21.8'
12	47°00.2'	9°21.9'	27°58.9'	20°22.3'	73°22.9'	109°14.8'	107°54.9'
13	46°27.9'	8°51.0'	27°25.3'	20°55.0'	73°57.7'	109°49.5'	108°28.0'
14	45°55.6'	8°20.5'	26°51.7'	21°27.7'	74°32.5'	110°24.2'	109°01.0'
15	45°23.3'	7°50.3'	26°18.2'	22°00.5'	75°07.3'	110°58.9'	109°34.0'
16	44°51.0'	7°20.5'	25°44.7'	22°33.5'	75°42.0'	111°33.6'	110°07.0'
17	44°18.7'	6°51.3'	25°11.4'	23°06.5'	76°16.8'	112°08.2'	110°40.0'
18	43°46.4'	–	24°38.0'	23°39.5'	76°51.5'	112°42.9'	111°13.0'
19	43°14.1'	–	24°04.8'	24°12.7'	77°26.2'	113°17.5'	111°45.9'
20	42°41.9'	–	23°31.7'	24°45.9'	78°01.0'	113°52.1'	112°18.8'
21	42°09.6'	–	22°58.6'	25°19.1'	78°35.7'	114°26.7'	112°51.7'
22	41°37.4'	–	22°25.7'	25°52.4'	79°10.4'	115°01.3'	113°24.5'
23	41°05.2'	–	21°52.8'	26°25.8'	79°45.0'	115°35.9'	113°57.3'

Mon Dec 23, 2019 UTC

UTC	−Sun Lunar Dist.	+Spica Lunar Dist.	−Antares Lunar Dist.	+Regulus Lunar Dist.	+Pollux Lunar Dist.	+Procyon Lunar Dist.	+Arcturus Lunar Dist.
0	40°33.0′	26°59.1′	21°20.1′	80°19.7′	116°10.5′	114°30.1′	36°16.5′
1	40°00.8′	27°32.6′	20°47.4′	80°54.4′	116°45.0′	115°02.9′	36°40.3′
2	39°28.6′	28°06.0′	20°14.9′	81°29.0′	117°19.5′	115°35.6′	37°04.3′
3	38°56.4′	28°39.5′	19°42.6′	82°03.6′	117°54.0′	116°08.3′	37°28.6′
4	38°24.3′	29°13.1′	19°10.3′	82°38.3′	118°28.5′	116°40.9′	37°53.1′
5	37°52.2′	29°46.6′	18°38.2′	83°12.9′	119°03.0′	117°13.6′	38°17.8′
6	37°20.0′	30°20.2′	18°06.3′	83°47.4′	119°37.5′	117°46.2′	38°42.7′
7	36°47.9′	30°53.8′	17°34.6′	84°22.0′	120°11.9′	118°18.7′	39°07.8′
8	36°15.9′	31°27.4′	17°03.1′	84°56.6′	120°46.4′	118°51.2′	39°33.1′
9	35°43.8′	32°01.0′	16°31.8′	85°31.1′	121°20.8′	119°23.7′	39°58.6′
10	35°11.7′	32°34.7′	16°00.7′	86°05.6′	121°55.2′	119°56.2′	40°24.3′
11	34°39.7′	33°08.3′	15°29.8′	86°40.1′	122°29.5′	120°28.6′	40°50.1′
12	34°07.7′	33°42.0′	14°59.3′	87°14.6′	123°03.9′	121°01.0′	41°16.1′
13	33°35.6′	34°15.7′	14°29.0′	87°49.1′	123°38.2′	121°33.3′	41°42.2′
14	33°03.6′	34°49.4′	13°59.1′	88°23.6′	124°12.6′	122°05.6′	42°08.6′
15	32°31.7′	35°23.1′	13°29.6′	88°58.0′	124°46.9′	122°37.8′	42°35.0′
16	31°59.7′	35°56.8′	13°00.5′	89°32.5′	125°21.1′	123°10.0′	43°01.6′
17	31°27.8′	36°30.5′	12°31.8′	90°06.9′	125°55.4′	123°42.2′	43°28.3′
18	30°55.8′	37°04.2′	12°03.7′	90°41.3′	126°29.7′	124°14.3′	43°55.2′
19	30°23.9′	37°38.0′	11°36.1′	91°15.6′	127°03.9′	124°46.3′	44°22.2′
20	29°52.0′	38°11.7′	11°09.2′	91°50.0′	127°38.1′	125°18.3′	44°49.3′
21	29°20.2′	38°45.4′	−	92°24.3′	128°12.3′	125°50.3′	45°16.5′
22	28°48.3′	39°19.1′	−	92°58.7′	128°46.4′	126°22.2′	45°43.9′
23	28°16.5′	39°52.8′	−	93°33.0′	129°20.5′	126°54.1′	46°11.3′

Tue Dec 24, 2019 UTC

UTC	+Mars Lunar Dist.	+Spica Lunar Dist.	+Regulus Lunar Dist.	+Arcturus Lunar Dist.
0	11°31.0′	40°26.6′	94°07.3′	46°38.9′
1	12°02.3′	41°00.3′	94°41.5′	47°06.5′
2	12°33.7′	41°34.0′	95°15.8′	47°34.3′
3	13°05.2′	42°07.7′	95°50.0′	48°02.1′
4	13°36.8′	42°41.4′	96°24.2′	48°30.1′
5	14°08.4′	43°15.1′	96°58.4′	48°58.1′
6	14°40.0′	43°48.8′	97°32.6′	49°26.2′
7	15°11.8′	44°22.4′	98°06.8′	49°54.4′
8	15°43.5′	44°56.1′	98°40.9′	50°22.6′
9	16°15.3′	45°29.8′	99°15.0′	50°50.9′
10	16°47.1′	46°03.4′	99°49.1′	51°19.3′
11	17°18.9′	46°37.1′	100°23.2′	51°47.8′
12	17°50.7′	47°10.7′	100°57.2′	52°16.3′
13	18°22.6′	47°44.3′	101°31.3′	52°44.9′
14	18°54.5′	48°17.9′	102°05.3′	53°13.6′
15	19°26.3′	48°51.5′	102°39.3′	53°42.3′
16	19°58.2′	49°25.1′	103°13.3′	54°11.0′
17	20°30.1′	49°58.7′	103°47.2′	54°39.8′
18	21°02.0′	50°32.2′	104°21.1′	55°08.7′
19	21°33.8′	51°05.7′	104°55.0′	55°37.6′
20	22°05.7′	51°39.3′	105°28.9′	56°06.5′
21	22°37.6′	52°12.8′	106°02.8′	56°35.5′
22	23°09.5′	52°46.3′	106°36.6′	57°04.5′
23	23°41.3′	53°19.7′	107°10.4′	57°33.6′

Wed Dec 25, 2019 UTC

UTC	+Mars Lunar Dist.	+Spica Lunar Dist.	+Arcturus Lunar Dist.
0	24°13.2'	53°53.2'	58°02.7'
1	24°45.0'	54°26.6'	58°31.8'
2	25°16.9'	55°00.1'	59°01.0'
3	25°48.7'	55°33.5'	59°30.2'
4	26°20.5'	56°06.8'	59°59.4'
5	26°52.3'	56°40.2'	60°28.7'
6	27°24.1'	57°13.6'	60°57.9'
7	27°55.8'	57°46.9'	61°27.2'
8	28°27.6'	58°20.2'	61°56.6'
9	28°59.3'	58°53.5'	62°25.9'
10	29°31.1'	59°26.8'	62°55.3'
11	30°02.8'	60°00.0'	63°24.7'
12	30°34.4'	60°33.2'	63°54.1'
13	31°06.1'	61°06.4'	64°23.5'
14	31°37.8'	61°39.6'	64°52.9'
15	32°09.4'	62°12.8'	65°22.3'
16	32°41.0'	62°45.9'	65°51.8'
17	33°12.6'	63°19.0'	66°21.3'
18	33°44.1'	63°52.1'	66°50.7'
19	34°15.7'	64°25.2'	67°20.2'
20	34°47.2'	64°58.3'	67°49.7'
21	35°18.7'	65°31.3'	68°19.2'
22	35°50.2'	66°04.3'	68°48.7'
23	36°21.6'	66°37.3'	69°18.2'

Sat Dec 28, 2019 UTC

UTC	+Saturn Lunar Dist.	-Venus Lunar Dist.	-Formalhaut Lunar Dist.	-Achernar Lunar Dist.
0	6°29.7'	12°18.9'	40°54.4'	68°40.8'
1	7°00.7'	11°50.2'	40°25.9'	68°25.3'
2	7°31.8'	11°21.6'	39°57.4'	68°10.0'
3	8°02.9'	10°53.0'	39°29.1'	67°54.7'
4	8°34.0'	10°24.4'	39°00.8'	67°39.6'
5	9°05.1'	9°55.9'	38°32.7'	67°24.6'
6	9°36.3'	9°27.4'	38°04.6'	67°09.6'
7	10°07.4'	8°59.0'	37°36.7'	66°54.8'
8	10°38.5'	8°30.6'	37°08.8'	66°40.1'
9	11°09.6'	8°02.3'	36°41.1'	66°25.5'
10	11°40.7'	7°34.0'	36°13.5'	66°11.1'
11	12°11.8'	7°05.8'	35°46.0'	65°56.7'
12	12°42.9'	6°37.7'	35°18.7'	65°42.5'
13	13°13.9'	6°09.6'	34°51.4'	65°28.3'
14	13°45.0'	5°41.6'	34°24.3'	65°14.3'
15	14°16.0'	5°13.7'	33°57.3'	65°00.4'
16	14°47.0'	4°45.9'	33°30.5'	64°46.6'
17	15°17.9'	4°18.3'	33°03.8'	64°33.0'
18	15°48.9'	3°50.8'	32°37.3'	64°19.5'
19	16°19.8'	3°23.7'	32°10.9'	64°06.1'
20	16°50.7'	2°56.8'	31°44.6'	63°52.8'
21	17°21.6'	–	31°18.6'	63°39.6'
22	17°52.4'	–	30°52.6'	63°26.6'
23	18°23.3'	–	30°26.9'	63°13.7'

## Sun Dec 29, 2019 UTC

UTC	+Saturn Lunar Dist.	-Formalhaut Lunar Dist.	-Aldebaran Lunar Dist.	-Rigel Lunar Dist.
0	18°54.1'	30°01.4'	119°49.9'	119°36.7'
1	19°24.9'	29°36.0'	119°18.8'	119°10.9'
2	19°55.6'	29°10.8'	118°47.8'	118°45.0'
3	20°26.4'	28°45.8'	118°16.8'	118°19.1'
4	20°57.1'	28°21.0'	117°45.8'	117°53.2'
5	21°27.7'	27°56.5'	117°14.8'	117°27.3'
6	21°58.4'	27°32.1'	116°43.8'	117°01.3'
7	22°29.0'	27°08.0'	116°12.9'	116°35.3'
8	22°59.6'	26°44.1'	115°42.0'	116°09.3'
9	23°30.2'	26°20.5'	115°11.2'	115°43.3'
10	24°00.8'	25°57.1'	114°40.3'	115°17.3'
11	24°31.3'	25°34.0'	114°09.5'	114°51.3'
12	25°01.8'	25°11.2'	113°38.7'	114°25.2'
13	25°32.3'	24°48.7'	113°08.0'	113°59.1'
14	26°02.8'	24°26.4'	112°37.2'	113°33.0'
15	26°33.2'	24°04.5'	112°06.5'	113°06.9'
16	27°03.6'	23°42.9'	111°35.8'	112°40.8'
17	27°34.0'	23°21.6'	111°05.2'	112°14.7'
18	28°04.4'	23°00.7'	110°34.5'	111°48.6'
19	28°34.7'	22°40.2'	110°03.9'	111°22.5'
20	29°05.0'	22°20.0'	109°33.3'	110°56.3'
21	29°35.3'	22°00.2'	109°02.8'	110°30.2'
22	30°05.6'	21°40.9'	108°32.2'	110°04.0'
23	30°35.8'	21°21.9'	108°01.7'	109°37.8'

## Mon Dec 30, 2019 UTC

UTC	+Sun Lunar Dist.	+Venus Lunar Dist.	-Aldebaran Lunar Dist.	-Formalhaut Lunar Dist.	-Rigel Lunar Dist.	-Capella Lunar Dist.	+Altair Lunar Dist.
0	44°12.7'	10°15.1'	107°31.2'	21°03.5'	109°11.7'	119°03.2'	38°08.4'
1	44°40.6'	10°42.5'	107°00.7'	20°45.5'	108°45.5'	118°36.2'	38°25.0'
2	45°08.6'	11°09.8'	106°30.3'	20°27.9'	108°19.3'	118°09.3'	38°41.9'
3	45°36.5'	11°37.1'	105°59.9'	20°10.9'	107°53.1'	117°42.3'	38°58.9'
4	46°04.4'	12°04.4'	105°29.5'	19°54.4'	107°27.0'	117°15.3'	39°16.2'
5	46°32.3'	12°31.7'	104°59.1'	19°38.5'	107°00.8'	116°48.3'	39°33.7'
6	47°00.1'	12°58.9'	104°28.7'	19°23.1'	106°34.6'	116°21.3'	39°51.4'
7	47°28.0'	13°26.2'	103°58.4'	19°08.3'	106°08.4'	115°54.3'	40°09.3'
8	47°55.8'	13°53.4'	103°28.1'	18°54.1'	105°42.2'	115°27.3'	40°27.3'
9	48°23.6'	14°20.6'	102°57.8'	18°40.6'	105°16.0'	115°00.3'	40°45.6'
10	48°51.4'	14°47.8'	102°27.6'	18°27.7'	104°49.8'	114°33.2'	41°04.0'
11	49°19.1'	15°15.0'	101°57.3'	18°15.4'	104°23.6'	114°06.2'	41°22.7'
12	49°46.8'	15°42.1'	101°27.1'	18°03.9'	103°57.4'	113°39.1'	41°41.5'
13	50°14.6'	16°09.3'	100°56.9'	17°53.0'	103°31.2'	113°12.1'	42°00.5'
14	50°42.2'	16°36.4'	100°26.7'	17°42.9'	103°05.1'	112°45.0'	42°19.6'
15	51°09.9'	17°03.5'	99°56.5'	17°33.6'	102°38.9'	112°18.0'	42°38.9'
16	51°37.6'	17°30.6'	99°26.4'	17°25.0'	102°12.7'	111°50.9'	42°58.3'
17	52°05.2'	17°57.6'	98°56.3'	–	101°46.5'	111°23.9'	43°17.9'
18	52°32.8'	18°24.7'	98°26.2'	–	101°20.3'	110°56.8'	43°37.7'
19	53°00.4'	18°51.7'	97°56.1'	–	100°54.2'	110°29.7'	43°57.6'
20	53°27.9'	19°18.7'	97°26.0'	–	100°28.0'	110°02.7'	44°17.6'
21	53°55.5'	19°45.7'	96°56.0'	–	100°01.9'	109°35.6'	44°37.8'
22	54°23.0'	20°12.7'	96°25.9'	–	99°35.7'	109°08.5'	44°58.1'
23	54°50.5'	20°39.7'	95°55.9'	–	99°09.5'	108°41.5'	45°18.6'

Tue Dec 31, 2019 UTC

UTC	+Sun Lunar Dist.	+Venus Lunar Dist.	-Aldebaran Lunar Dist.	-Betelgeuse Lunar Dist.	-Rigel Lunar Dist.	-Capella Lunar Dist.	+Altair Lunar Dist.
0	55°18.0'	21°06.6'	95°25.9'	112°26.9'	98°43.4'	108°14.4'	45°39.1'
1	55°45.5'	21°33.5'	94°56.0'	111°58.1'	98°17.3'	107°47.3'	45°59.8'
2	56°13.0'	22°00.4'	94°26.0'	111°29.3'	97°51.1'	107°20.3'	46°20.6'
3	56°40.4'	22°27.3'	93°56.1'	111°00.5'	97°25.0'	106°53.2'	46°41.6'
4	57°07.8'	22°54.2'	93°26.1'	110°31.7'	96°58.9'	106°26.1'	47°02.6'
5	57°35.2'	23°21.1'	92°56.2'	110°02.9'	96°32.8'	105°59.0'	47°23.8'
6	58°02.6'	23°47.9'	92°26.3'	109°34.2'	96°06.6'	105°32.0'	47°45.0'
7	58°30.0'	24°14.8'	91°56.5'	109°05.4'	95°40.5'	105°04.9'	48°06.4'
8	58°57.4'	24°41.6'	91°26.6'	108°36.7'	95°14.5'	104°37.8'	48°27.8'
9	59°24.7'	25°08.4'	90°56.8'	108°07.9'	94°48.4'	104°10.8'	48°49.4'
10	59°52.1'	25°35.2'	90°26.9'	107°39.2'	94°22.3'	103°43.7'	49°11.1'
11	60°19.4'	26°02.0'	89°57.1'	107°10.5'	93°56.2'	103°16.7'	49°32.8'
12	60°46.7'	26°28.7'	89°27.3'	106°41.8'	93°30.2'	102°49.6'	49°54.7'
13	61°14.0'	26°55.5'	88°57.5'	106°13.1'	93°04.1'	102°22.5'	50°16.6'
14	61°41.2'	27°22.2'	88°27.7'	105°44.4'	92°38.1'	101°55.5'	50°38.7'
15	62°08.5'	27°49.0'	87°58.0'	105°15.7'	92°12.0'	101°28.4'	51°00.8'
16	62°35.7'	28°15.7'	87°28.2'	104°47.0'	91°46.0'	101°01.4'	51°23.0'
17	63°03.0'	28°42.4'	86°58.5'	104°18.3'	91°20.0'	100°34.3'	51°45.2'
18	63°30.2'	29°09.1'	86°28.8'	103°49.7'	90°54.0'	100°07.3'	52°07.6'
19	63°57.4'	29°35.7'	85°59.1'	103°21.0'	90°28.0'	99°40.3'	52°30.0'
20	64°24.6'	30°02.4'	85°29.4'	102°52.4'	90°02.0'	99°13.2'	52°52.6'
21	64°51.8'	30°29.1'	84°59.7'	102°23.7'	89°36.0'	98°46.2'	53°15.1'
22	65°19.0'	30°55.7'	84°30.0'	101°55.1'	89°10.1'	98°19.2'	53°37.8'
23	65°46.1'	31°22.3'	84°00.4'	101°26.5'	88°44.1'	97°52.1'	54°00.5'