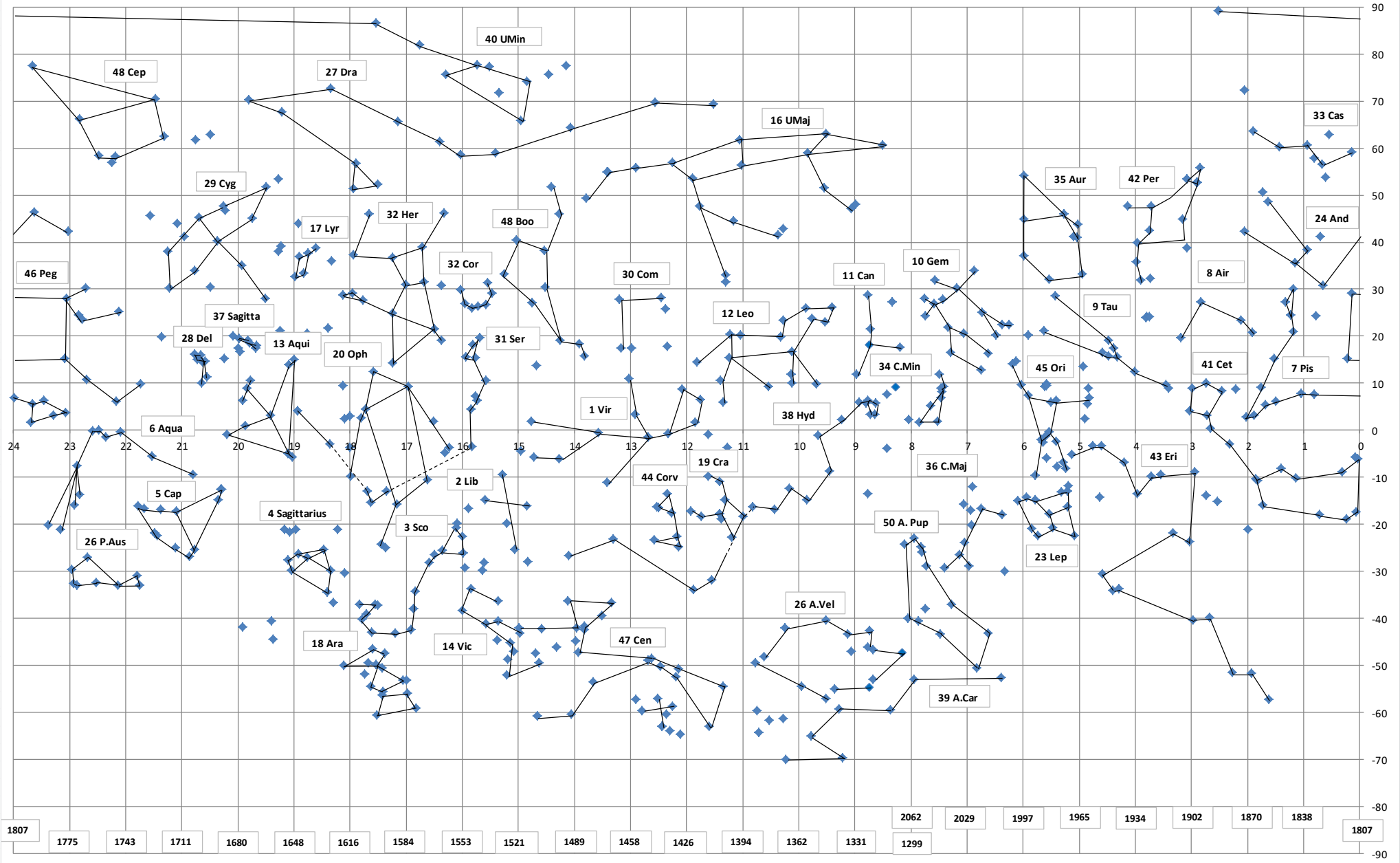


# The Heavens Declare the Glory of God



The stars are presented in exact positions by Hour (X-Axis) and by Declination (Y-Axis) on a grid – not as they are seen looking up to the sky – but how they lie according to their coordinates. Star signs are numbered to link them to Bible books (e.g. Genesis = 1, Exodus = 2, etc.) Dates (A.D.) at the bottom match Hours in the current era. Dates have been truncated. Example: the precise date for the 12<sup>th</sup> hour is 1426.349 A.D., in other words 34.9% of the year through 1426. (Years are reckoned as beginning the day after the Solstice.) The chart only shows 1426 to indicate the year the Hour occurred, not the beginning of the Hour. The 21<sup>st</sup> star sign, 'The Band', connects Pisces to Cetus at the star Mira. It may be useful to pencil in the Ecliptic on your copy. I apologize that the lines are off center from some of the stars. Lines are human drawn. Important thing is the location of the stars is exact.

**PRECISE DATES**

Key	SIGN	Hour	DEC	STAR	Vis.	Date	B
1	Virgo	13.42	-11.16	Spica	0.98	1471.401	α
1	Virgo	12.69	-1.45	Porrira	2.74	1448.382	γ
1	Virgo	13.04	10.96	Vindemiatrix	2.85	1459.230	ε
1	Virgo	13.58	-0.60	ζ Vir	3.38	1476.427	ζ
1	Virgo	12.93	3.40	δ Vir	3.39	1455.755	δ
1	Virgo	11.84	1.77	Zavijava	3.59	1421.425	β
1	Virgo	12.69	-1.45	γ Vir B	3.68	1448.378	γ
1	Virgo	14.77	1.89	109 Vir	3.73	1514.264	α
1	Virgo	14.72	-5.66	μ Vir	3.87	1512.579	μ
1	Virgo	12.33	-0.67	η Vir	3.89	1436.877	η
1	Virgo	11.76	6.53	ν Vir	4.04	1418.870	ν
1	Virgo	14.27	-6.00	ι Vir	4.07	1498.276	ι
1	Virgo	12.09	8.73	ο Vir	4.12	1429.106	ο
2	Libra	15.28	-9.38	β Lib	2.61	1530.532	β
2	Libra	14.85	-16.04	α2 Lib	2.75	1516.714	α2
2	Libra	15.07	-25.28	σ Lib	3.25	1523.691	σ
2	Libra	15.62	-28.14	υ Lib	3.60	1541.116	υ
2	Libra	15.64	-29.78	τ Lib	3.66	1541.979	τ
2	Libra	15.59	-14.79	γ Lib	3.91	1540.323	γ
2	Libra	15.90	-16.73	θ Lib	4.13	1550.001	θ
2	Libra	14.95	-4.35	16 Lib	4.47	1520.048	α
2	Libra	15.20	-19.79	ι1 Lib	4.54	1528.000	ι1
3	Scorpius	16.49	-26.43	Antares A	0.91	1568.816	α
3	Scorpius	17.56	-37.10	Shaula	1.62	1602.766	λ
3	Scorpius	17.62	-43.00	Sargas	1.86	1604.730	θ
3	Scorpius	16.01	-22.62	Al Jabba	2.29	1553.443	δ
3	Scorpius	16.84	-34.29	ε Sco	2.29	1579.797	ε
3	Scorpius	17.71	-39.03	κ Sco	2.39	1607.462	κ
3	Scorpius	16.09	-19.81	Acraab	2.62	1556.140	β1
3	Scorpius	17.51	-37.30	Lesath	2.70	1601.262	υ
3	Scorpius	16.60	-28.22	τ Sco	2.82	1572.240	τ
3	Scorpius	15.98	-26.11	π Sco	2.89	1552.660	π
3	Scorpius	16.35	-25.59	σ Sco	2.90	1564.469	σ
3	Scorpius	17.79	-40.13	Apollyon	2.99	1610.159	ι1
3	Scorpius	16.86	-38.05	μ1 Sco	3.00	1580.695	μ1
3	Scorpius	17.83	-37.04	G Sco	3.19	1611.362	G
3	Scorpius	17.20	-43.24	η Sco	3.32	1591.423	η
3	Scorpius	16.87	-38.02	μ2 Sco	3.56	1580.943	μ2
3	Scorpius	16.91	-42.36	ζ2 Sco	3.62	1582.133	ζ2
3	Scorpius	15.95	-29.21	ρ Sco	3.87	1551.619	ρ
3	Scorpius	16.11	-20.67	ω1 Sco	3.93	1556.867	ω1

Key	SIGN	Hour	DEC	STAR	Vis.	Date	B
4	Sagittarius	18.40	-34.38	ε Sgr	1.79	1629.508	ε
4	Sagittarius	18.92	-26.30	Nunki	2.05	1645.950	σ
4	Sagittarius	19.04	-29.88	ζ Sgr	2.60	1649.833	ζ
4	Sagittarius	18.35	-29.83	δ Sgr	2.72	1627.826	δ
4	Sagittarius	18.47	-25.42	λ Sgr	2.82	1631.516	λ
4	Sagittarius	19.16	-21.02	π Sgr	2.88	1653.615	π
4	Sagittarius	18.10	-30.42	γ2 Sgr	2.98	1619.795	γ2
4	Sagittarius	18.29	-36.76	η Sgr	3.10	1626.046	η
4	Sagittarius	18.76	-26.99	φ Sgr	3.17	1640.867	φ
4	Sagittarius	19.12	-27.67	τ Sgr	3.32	1652.124	τ
4	Sagittarius	18.96	-21.11	ξ2 Sgr	3.52	1647.254	ξ2
4	Sagittarius	19.08	-21.74	ο Sgr	3.76	1650.928	ο
4	Sagittarius	18.23	-21.06	μ Sgr	3.84	1624.003	μ
4	Sagittarius	19.36	-17.85	ρ1 Sgr	3.92	1659.914	ρ1
4	Sagittarius	19.38	-44.46	β1 Sgr	3.96	1660.424	β1
4	Sagittarius	19.40	-40.62	α Sgr	3.96	1661.084	α
4	Sagittarius	19.92	-41.87	ι Sgr	4.12	1677.676	ι
5	Capricorn	21.78	-16.13	δ Cap	2.85	1736.787	δ
5	Capricorn	20.35	-14.78	β1 Cap	3.05	1691.294	β1
5	Capricorn	20.30	-12.54	α2 Cap	3.58	1689.730	α2
5	Capricorn	21.67	-16.66	γ Cap	3.69	1733.113	γ
5	Capricorn	21.44	-22.41	ζ Cap	3.77	1726.015	ζ
5	Capricorn	21.10	-17.23	θ Cap	4.08	1715.056	θ
5	Capricorn	20.86	-26.92	ω Cap	4.12	1707.587	ω
5	Capricorn	20.77	-25.27	ψ Cap	4.13	1704.560	ψ
5	Capricorn	21.37	-16.83	ι Cap	4.27	1723.677	ι
5	Capricorn	20.29	-12.51	α1 Cap	4.30	1689.514	α1
5	Capricorn	21.12	-25.01	24 Cap	4.49	1715.681	A
5	Capricorn	21.48	-21.81	36 Cap	4.50	1727.100	b
6	Aquarius	21.53	-5.57	β Aqr	2.90	1728.601	β
6	Aquarius	22.10	-0.32	α Aqr	2.95	1746.699	α
6	Aquarius	22.91	-15.82	δ Aqr	3.27	1772.539	δ
6	Aquarius	22.48	-0.02	ζ1 Aqr	3.65	1758.886	ζ1
6	Aquarius	23.16	-21.17	88 Aqr	3.68	1780.364	c2
6	Aquarius	22.88	-7.58	λ Aqr	3.73	1771.464	λ
6	Aquarius	20.79	-9.50	ε Aqr	3.78	1705.394	ε
6	Aquarius	22.36	-1.39	γ Aqr	3.86	1755.092	γ
6	Aquarius	23.38	-20.10	98 Aqr	3.96	1787.519	b1
6	Aquarius	22.59	-0.12	η Aqr	4.04	1762.339	η
6	Aquarius	22.83	-13.59	τ2 Aqr	4.05	1769.865	τ2
6	Aquarius	21.80	-30.90	θ PsA	5.02	1737.155	θ

Key	SIGN	Hour	DEC	STAR	Vis.	Date	B
7	Pisces	1.52	15.35	η Psc	3.62	1855.476	η
7	Pisces	23.29	3.28	γ Psc	3.70	1784.444	γ
7	Pisces	23.99	6.86	ω Psc	4.03	1806.734	ω
7	Pisces	23.67	5.63	ι Psc	4.13	1796.495	ι
7	Pisces	1.76	9.16	ο Psc	4.26	1862.834	ο
7	Pisces	1.05	7.89	ε Psc	4.27	1840.386	ε
7	Pisces	23.47	6.38	θ Psc	4.27	1790.162	θ
7	Pisces	2.03	2.76	α Psc A	4.33	1871.639	α
7	Pisces	0.03	-6.01	30 Psc	4.37	1808.136	α
7	Pisces	0.81	7.59	δ Psc	4.44	1832.844	δ
7	Pisces	1.69	5.49	ν Psc	4.45	1860.737	ν
7	Pisces	23.06	3.82	β Psc	4.48	1777.419	β
7	Pisces	23.70	1.78	λ Psc	4.49	1797.606	λ
7	Pisces	1.19	30.09	τ Psc	4.51	1844.993	τ
7	Pisces	0.09	-5.71	33 Psc	4.61	1809.920	α
7	Pisces	1.89	3.19	ξ Psc	4.61	1867.150	ξ
7	Pisces	1.19	21.03	χ Psc	4.66	1844.885	χ
7	Pisces	1.23	24.58	φ Psc	4.67	1846.100	φ
7	Pisces	1.32	27.26	υ Psc	4.74	1849.121	υ
7	Pisces	1.50	6.14	μ Psc	4.84	1854.788	μ
8	Aries	2.12	23.46	Hamal	2.01	1874.349	α
8	Aries	1.91	20.81	Sheraton	2.64	1867.724	β
8	Aries	2.83	27.26	41 Ari	3.61	1896.991	c
8	Aries	3.19	19.73	δ Ari	4.35	1908.436	δ
9	Taurus	4.60	16.51	Aldebaran	0.87	1953.012	a
9	Taurus	5.44	28.61	β Tau	1.65	1979.648	β
9	Taurus	3.79	24.11	Alcyone A	2.85	1927.397	Alc.
9	Taurus	5.63	21.14	ζ Tau	2.97	1985.652	ζ
9	Taurus	4.48	15.87	θ2 Tau	3.40	1949.173	θ2
9	Taurus	4.01	12.49	λ Tau	3.41	1934.374	λ
9	Taurus	4.48	19.18	ε Tau	3.53	1949.147	ε
9	Taurus	3.41	9.03	ο Tau	3.61	1915.410	ο
9	Taurus	3.82	24.05	Atlas A	3.62	1928.285	Atlas
9	Taurus	4.33	15.63	γ Tau	3.65	1944.483	γ
9	Taurus	3.75	24.11	Electra	3.72	1926.017	Electra
9	Taurus	3.45	9.73	ξ Tau	3.73	1916.653	ξ
9	Taurus	4.38	17.54	δ1 Tau	3.77	1946.142	δ1

Note: More detailed star maps with individual stars labeled are available on the site. Click on STARS in the menu at the top of the page then select the Star Sign in the list below.

**PRECISE DATES**

Key	SIGN	Hour	DEC	STAR	Vis.	Date	B
10	Gemini	7.76	28.03	Pollux	1.16	2053.171	β
10	Gemini	7.58	31.89	Castor A	1.90	2047.501	α1
10	Gemini	6.63	16.40	γ Gem	1.93	2017.416	γ
10	Gemini	6.38	22.51	μ Gem	2.87	2009.617	μ
10	Gemini	6.73	25.13	ε Gem	3.06	2020.706	ε
10	Gemini	6.25	22.51	η Gem	3.31	2005.343	η
10	Gemini	6.75	12.90	ξ Gem	3.35	2021.423	ξ
10	Gemini	7.34	21.98	δ Gem	3.50	2039.845	δ
10	Gemini	7.74	24.40	κ Gem	3.57	2052.708	κ
10	Gemini	7.30	16.54	λ Gem	3.58	2038.773	λ
10	Gemini	6.88	33.96	θ Gem	3.60	2025.389	θ
10	Gemini	7.43	27.80	ι Gem	3.78	2042.809	ι
10	Gemini	7.07	20.57	ζ Gem	4.01	2031.377	ζ
10	Gemini	7.60	26.90	υ Gem	4.06	2048.199	υ
10	Gemini	6.48	20.21	ν Gem A	4.13	2012.79	ν
10	Gemini	7.19	30.25	τ Gem	4.41	2035.095	τ
11	Cancer	8.28	9.19	Tarf	3.53	1308.167	β
11	Cancer	8.74	18.15	Asellus Aus.	3.94	1323.064	δ
11	Cancer	8.78	28.76	ι Cnc A	4.03	1324.127	ι
11	Cancer	8.97	11.86	Acubens	4.26	1330.362	α
11	Cancer	8.72	21.47	Asellus Bor.	4.66	1322.322	γ
11	Cancer	8.20	17.65	ζ Cnc	4.67	1305.889	ζ
11	Cancer	8.43	7.56	HD 71115	5.13	1313.136	
11	Cancer	8.08	13.12	8 Cnc	5.14	1302.117	
11	Cancer	8.33	27.22	χ Cnc	5.14	1310.042	χ
12	Leo	10.14	11.97	Regulus	1.36	1367.320	α
12	Leo	11.82	14.57	Denebola	2.14	1420.565	β
12	Leo	10.33	19.84	Algeiba	2.37	1373.450	γ1
12	Leo	11.24	20.52	δ Leo	2.56	1402.079	δ
12	Leo	9.76	23.77	ε Leo	2.97	1355.409	ε
12	Leo	11.24	15.43	θ Leo	3.33	1402.149	θ
12	Leo	10.28	23.42	Adhafera	3.43	1371.718	ζ
12	Leo	10.12	16.76	η Leo	3.48	1366.768	η
12	Leo	9.69	9.89	ο Leo A	3.52	1352.924	ο
12	Leo	9.69	9.91	ο Leo B	3.70	1352.963	ο
12	Leo	10.33	19.84	γ2 Leo	3.80	1373.453	γ2
12	Leo	10.55	9.31	ρ Leo	3.84	1380.243	ρ
12	Leo	9.88	26.01	μ Leo	3.88	1359.064	μ
12	Leo	11.40	10.53	ι Leo	4.00	1407.270	ι
12	Leo	11.35	6.03	σ Leo	4.05	1405.798	σ
12	Leo	10.93	24.75	54 Leo	4.30	1392.300	
12	Leo	11.62	-0.82	υ Leo	4.30	1414.159	υ
12	Leo	9.53	22.97	λ Leo	4.32	1347.937	λ
12	Leo	10.13	10.00	31 Leo	4.39	1367.072	A
12	Leo	11.04	20.18	60 Leo	4.42	1395.851	b
12	Leo	11.28	-3.65	φ Leo	4.45	1403.431	φ
12	Leo	9.41	26.18	κ Leo	4.47	1344.199	κ

Key	SIGN	Hour	DEC	STAR	Vis.	Date	B
13	Aquila	19.85	8.87	Altair	0.76	1675.305	α
13	Aquila	19.77	10.61	γ Aql	2.72	1672.916	γ
13	Aquila	19.09	13.86	ζ Aql	2.99	1651.315	ζ
13	Aquila	20.19	-0.82	θ Aql	3.24	1686.160	θ
13	Aquila	19.42	3.11	δ Aql	3.36	1661.935	δ
13	Aquila	19.10	-4.88	λ Aql	3.43	1651.759	λ
13	Aquila	19.92	6.41	β Aql	3.71	1677.704	β
13	Aquila	19.87	1.01	η Aql	3.87	1676.200	η
13	Aquila	18.99	15.07	ε Aql	4.02	1648.253	ε
13	Aquila	19.03	-5.74	12 Aql	4.02	1649.341	i
14	Victima	14.70	-47.39	α Lup	2.30	1511.980	α
14	Victima	14.98	-43.13	β Lup	2.68	1520.759	β
14	Victima	15.59	-41.17	γ Lup	2.80	1540.120	γ
14	Victima	15.36	-40.65	δ Lup	3.22	1532.838	δ
14	Victima	15.38	-44.69	ε Lup	3.37	1533.530	ε
14	Victima	15.20	-52.10	ζ Lup	3.41	1528.035	ζ
14	Victima	16.00	-38.40	η Lup	3.42	1553.329	η
14	Victima	14.32	-46.06	ι Lup	3.55	1500.068	ι
14	Victima	15.36	-36.26	φ1 Lup	3.57	1533.070	φ1
14	Victima	15.20	-48.74	κ1 Lup	3.88	1527.847	κ1
14	Victima	15.09	-47.05	π Lup	3.91	1524.243	π
14	Victima	15.85	-33.63	χ Lup	3.97	1548.484	χ
14	Victima	14.63	-49.43	ρ Lup	4.05	1509.844	ρ
14	Victima	15.15	-45.28	λ Lup	4.07	1526.213	λ
15	Corona	15.58	26.71	Alphecca	2.22	1539.879	α
15	Corona	15.46	29.11	β CrB	3.66	1536.252	β
15	Corona	15.71	26.30	γ CrB	3.81	1544.140	γ
15	Corona	15.55	31.36	θ CrB	4.14	1538.949	θ
15	Corona	15.96	26.88	ε CrB	4.14	1551.990	ε
15	Corona	15.83	26.07	δ CrB	4.59	1547.764	δ
15	Corona	15.66	36.64	ζ CrB	4.64	1542.360	ζ
15	Corona	16.15	36.49	τ CrB	4.73	1558.009	τ
15	Corona	15.85	35.66	κ CrB	4.79	1548.630	κ
15	Corona	16.37	30.89	ξ CrB	4.86	1564.951	ξ
15	Corona	16.02	29.85	ι CrB	4.98	1554.030	ι

Key	SIGN	Hour	DEC	STAR	Vis.	Date	B
16	U. Major	12.90	55.96	Alioth	1.76	1454.921	ε
16	U. Major	11.06	61.75	Dubhe	1.81	1396.593	α
16	U. Major	13.79	49.31	η UMa	1.85	1483.220	η
16	U. Major	13.40	54.93	Mizar	2.23	1470.732	ζ1
16	U. Major	11.03	56.38	Merak	2.34	1395.594	β
16	U. Major	11.90	53.69	Phad	2.41	1423.087	γ
16	U. Major	11.16	44.50	ψ UMa	3.00	1399.731	ψ
16	U. Major	10.37	41.50	μ UMa	3.06	1374.700	μ
16	U. Major	8.99	48.04	ι UMa	3.12	1330.746	ι
16	U. Major	9.55	51.68	θ UMa	3.17	1348.546	θ
16	U. Major	12.26	57.03	δ UMa	3.32	1434.506	δ
16	U. Major	8.50	60.72	ο UMa	3.35	1315.440	ο
16	U. Major	10.29	42.91	λ UMa	3.45	1371.933	λ
16	U. Major	11.31	33.09	ν UMa	3.49	1404.392	ν
16	U. Major	9.06	47.16	κ UMa	3.57	1333.078	κ
16	U. Major	9.53	63.06	23 UMa	3.65	1347.832	h
16	U. Major	11.77	47.78	χ UMa	3.69	1418.972	χ
16	U. Major	9.85	59.04	υ UMa	3.78	1358.128	υ
16	U. Major	11.30	31.53	ξ UMa A	3.79	1404.237	ξ
16	U. Major	13.40	54.92	ζ UMa B	3.88	1470.738	ζ2
16	U. Major	13.42	54.99	Alcor	3.99	1471.417	g
17	Lyra	18.62	38.78	Vega	0.03	1636.256	α
17	Lyra	18.98	32.69	γ Lyr	3.25	1647.895	γ
17	Lyra	18.83	33.36	β Lyr A	3.52	1643.208	β
17	Lyra	18.92	43.95	R Lyr	4.08	1645.985	
17	Lyra	18.91	36.90	δ2 Lyr	4.22	1645.547	δ2
17	Lyra	18.33	36.06	κ Lyr	4.33	1627.226	κ
17	Lyra	18.75	37.61	ζ1 Lyr	4.34	1640.400	ζ1
17	Lyra	19.27	38.13	θ Lyr	4.35	1657.109	θ
17	Lyra	19.23	39.15	η Lyr	4.43	1655.729	η
18	Ara	17.42	-55.53	β Ara	2.84	1598.375	β
18	Ara	17.53	-49.88	α Ara	2.84	1601.833	α
18	Ara	16.98	-55.99	ζ Ara	3.12	1584.265	ζ
18	Ara	17.42	-56.38	γ Ara	3.31	1598.423	γ
18	Ara	17.52	-60.68	δ Ara	3.60	1601.440	δ
18	Ara	18.11	-50.09	θ Ara	3.65	1620.230	θ
18	Ara	16.83	-59.04	η Ara	3.77	1579.594	η
18	Ara	16.99	-53.16	ε1 Ara	4.06	1584.776	ε1
18	Ara	17.59	-46.51	ο Ara	4.56	1603.851	ο
18	Ara	17.67	-49.42	λ Ara	4.76	1606.358	λ
18	Ara	17.74	-51.83	μ Ara	5.12	1608.341	μ
18	Ara	17.43	-50.63	κ Ara	5.19	1598.743	κ
18	Ara	17.39	-47.47	ι Ara	5.21	1597.299	ι
18	Ara	17.63	-54.50	π Ara	5.25	1605.140	π
18	Ara	17.05	-53.24	ε2 Ara	5.27	1586.657	ε2

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**PRECISE DATES**

Key	SIGN	Hour	DEC	STAR	Vis.	Date	B
19	Crater	11.32	-14.78	δ Crt	3.56	1404.849	δ
19	Crater	11.41	-17.68	γ Crt	4.06	1407.778	γ
19	Crater	11.00	-18.30	α Crt	4.08	1394.502	α
19	Crater	11.19	-22.83	β Crt	4.46	1400.785	β
19	Crater	11.61	-9.80	θ Crt	4.70	1414.019	θ
19	Crater	11.75	-18.35	ζ Crt	4.71	1418.290	ζ
19	Crater	11.41	-10.86	ε Crt	4.81	1407.635	ε
19	Crater	11.39	-18.78	λ Crt	5.08	1406.978	λ
19	Crater	11.93	-17.15	η Crt	5.17	1424.242	η
20	Ophiuchus	17.58	12.56	Ras Alhague	2.08	1603.467	α
20	Ophiuchus	17.17	-15.73	Sabik	2.43	1590.484	η
20	Ophiuchus	16.62	-10.57	ζ Oph	2.54	1572.915	ζ
20	Ophiuchus	16.24	-3.69	δ Oph	2.73	1560.852	δ
20	Ophiuchus	17.72	4.57	Cheleb	2.76	1607.986	β
20	Ophiuchus	16.96	9.38	κ Oph	3.19	1583.764	κ
20	Ophiuchus	16.31	-4.69	ε Oph	3.23	1562.952	ε
20	Ophiuchus	17.37	-25.00	θ Oph	3.27	1596.633	θ
20	Ophiuchus	17.98	-9.77	ν Oph	3.32	1616.210	ν
20	Ophiuchus	18.12	9.56	72 Oph	3.71	1620.611	
20	Ophiuchus	17.80	2.71	γ Oph	3.75	1610.321	γ
20	Ophiuchus	16.52	1.98	λ Oph	3.82	1569.612	λ
20	Ophiuchus	18.01	2.93	67 Oph	3.93	1617.067	
20	Ophiuchus	18.09	2.50	70 Oph	4.03	1619.608	ρ
20	Ophiuchus	17.44	-24.18	44 Oph	4.16	1598.940	b
22	Crux	12.80	-59.69	β Cru	1.25	1451.586	β
22	Crux	12.44	-63.10	α1 Cru (α Cr)	1.40	1440.414	α1
22	Crux	12.52	-57.11	γ Cru	1.60	1442.829	γ
22	Crux	12.44	-63.10	α2 Cru (α Cr)	2.09	1440.421	α2
22	Crux	12.25	-58.75	δ Cru	2.79	1434.357	δ
22	Crux	12.36	-60.40	ε Cru	3.59	1437.648	ε
22	Crux	12.91	-57.18	μ1 Cru	4.03	1455.219	μ1
22	Crux	12.31	-64.00	ζ Cru	4.06	1436.099	ζ
22	Crux	12.11	-64.61	η Cru	4.14	1429.988	η
23	Lepus	5.55	-17.82	α Lep	2.58	1983.053	α
23	Lepus	5.47	-20.76	β Lep	2.81	1980.683	β
23	Lepus	5.09	-22.37	ε Lep	3.19	1968.632	ε
23	Lepus	5.22	-16.21	μ Lep	3.29	1972.582	μ
23	Lepus	5.78	-14.82	ζ Lep	3.55	1990.576	ζ
23	Lepus	5.74	-22.45	γ Lep	3.59	1989.259	γ
23	Lepus	5.94	-14.17	η Lep	3.71	1995.573	η
23	Lepus	5.86	-20.88	δ Lep	3.76	1992.883	δ
23	Lepus	5.33	-13.18	λ Lep	4.29	1976.098	λ
23	Lepus	5.22	-12.94	κ Lep	4.36	1972.741	κ
23	Lepus	5.21	-11.87	ι Lep	4.45	1972.249	ι
23	Lepus	6.10	-14.94	θ Lep	4.67	2000.729	θ

Key	SIGN	Hour	DEC	STAR	Vis.	Date	B
24	Andromeda	0.14	29.09	α And	2.07	1811.535	α
24	Andromeda	1.16	35.62	β And	2.07	1843.975	β
24	Andromeda	2.07	42.33	γ1 And	2.10	1872.620	γ1
24	Andromeda	0.66	30.86	δ And	3.27	1827.894	δ
24	Andromeda	0.71	41.27	A. Galaxy	3.44	1829.700	A.G.
24	Andromeda	1.63	48.63	51 And	3.59	1858.919	
24	Andromeda	23.03	42.33	o And	3.62	1776.385	o
24	Andromeda	23.63	46.46	λ And	3.81	1795.232	λ
24	Andromeda	0.95	38.50	μ And	3.86	1837.112	μ
24	Andromeda	0.79	24.27	ζ And	4.08	1832.133	ζ
25	A.Vela	8.16	-47.34	γ2 Vel	1.83	1304.474	γ2
25	A.Vela	8.75	-54.71	δ Vel	1.96	1323.074	δ
25	A.Vela	9.13	-43.43	λ Vel	2.21	1335.391	λ
25	A.Vela	9.37	-55.01	κ Vel	2.47	1342.857	κ
25	A.Vela	10.78	-49.42	μ Vel	2.69	1387.623	μ
25	A.Vela	9.52	-57.03	HD 82668	3.16	1347.673	N
25	A.Vela	9.95	-54.57	φ Vel	3.52	1361.231	φ
25	A.Vela	8.67	-52.92	o Vel	3.60	1320.742	o
25	A.Vela	9.07	-47.10	HD 78004	3.75	1333.360	c
25	A.Vela	8.68	-46.65	HD 74180	3.81	1320.916	b
25	A.Vela	10.62	-48.23	ρ Vel	3.84	1382.617	ρ
25	A.Vela	10.25	-42.12	HD 88955	3.85	1370.683	q
25	A.Vela	8.77	-46.04	HD 75063	3.87	1323.772	a
25	A.Vela	9.51	-40.47	ψ Vel A	3.91	1347.397	ψ
25	A.Vela	8.74	-42.65	HD 74772	4.05	1322.912	d
26	P.Austral.	22.96	-29.62	Fomalhaut	1.17	1774.126	α
26	P.Austral.	22.68	-27.04	ε PsA	4.18	1765.140	ε
26	P.Austral.	22.93	-32.54	δ PsA	4.20	1773.228	δ
26	P.Austral.	22.53	-32.35	β PsA	4.29	1760.302	β
26	P.Austral.	21.75	-33.03	ι PsA	4.35	1735.680	ι
26	P.Austral.	22.88	-32.88	γ PsA	4.46	1771.416	γ
26	P.Austral.	22.14	-32.99	μ PsA	4.50	1748.073	μ
27	Draco	17.94	51.49	Eltanin	2.24	1614.928	γ
27	Draco	16.40	61.51	η Dra	2.73	1565.954	η
27	Draco	17.51	52.30	Rastaban	2.79	1601.088	β
27	Draco	19.21	67.66	Altair	3.07	1655.091	δ
27	Draco	17.15	65.71	Nod	3.17	1589.643	ζ
27	Draco	15.42	58.97	ι Dra	3.29	1534.720	ι
27	Draco	18.35	72.73	χ Dra	3.55	1627.851	χ
27	Draco	14.07	64.38	Thuban	3.67	1492.130	α
27	Draco	17.89	56.87	ξ Dra	3.73	1613.300	ξ
27	Draco	11.52	69.33	λ Dra	3.82	1411.227	λ
27	Draco	19.80	70.27	ε Dra	3.84	1673.925	ε
27	Draco	12.56	69.79	κ Dra	3.85	1444.057	κ
27	Draco	16.03	58.56	θ Dra	4.01	1554.268	θ

Key	SIGN	Hour	DEC	STAR	Vis.	Date	B
28	Delaph	20.63	14.60	β Del	3.64	1700.038	β
28	Delaph	20.66	15.91	α Del	3.77	1701.143	α
28	Delaph	20.55	11.30	ε Del	4.03	1697.744	ε
28	Delaph	20.78	16.12	γ2 Del	4.27	1704.855	γ2
28	Delaph	20.72	15.07	δ Del	4.43	1703.164	δ
28	Delaph	20.59	14.67	ζ Del	4.64	1698.855	ζ
28	Delaph	20.24	15.20	ρ Aql	4.94	1687.731	ρ
28	Delaph	20.65	10.09	κ Del	5.07	1700.873	κ
28	Delaph	20.78	16.12	γ1 Del	5.15	1704.852	γ1
29	Cygnus	20.69	45.28	Deneb	1.25	1702.091	α
29	Cygnus	20.37	40.26	γ Cyg	2.23	1691.938	γ
29	Cygnus	20.77	33.97	ε Cyg	2.48	1704.617	ε
29	Cygnus	19.75	45.13	δ Cyg	2.86	1672.237	δ
29	Cygnus	19.51	27.96	Albireo A	3.05	1664.698	β1
29	Cygnus	21.22	30.23	ζ Cyg	3.21	1718.752	ζ
29	Cygnus	21.08	43.93	ξ Cyg	3.72	1714.520	ξ
29	Cygnus	21.25	38.04	τ Cyg	3.74	1719.733	τ
29	Cygnus	19.50	51.73	ι Cyg	3.76	1664.162	ι
29	Cygnus	19.29	53.37	κ Cyg	3.80	1657.496	κ
29	Cygnus	20.23	46.74	o1 Cyg	3.80	1687.391	o1
29	Cygnus	19.94	35.08	η Cyg	3.89	1678.228	η
29	Cygnus	20.95	41.17	ν Cyg	3.94	1710.417	ν
29	Cygnus	20.26	47.71	o2 Cyg	3.96	1688.365	o2
29	Cygnus	21.57	45.59	ρ Cyg	3.98	1729.883	ρ
29	Cygnus	20.49	30.37	41 Cyg	4.01	1695.726	
30	Coma	13.20	27.88	β Com	4.26	1464.360	β
30	Coma	13.17	17.53	α Com A	4.32	1463.361	α
30	Coma	12.45	28.27	γ Com	4.35	1440.595	γ
30	Coma	12.35	17.49	11 Com	4.72	1437.305	
30	Coma	12.98	17.41	36 Com	4.76	1457.510	
30	Coma	12.38	25.85	12 Com A	4.78	1438.251	
31	Serpens	15.74	6.43	Unuk	2.63	1544.946	α
31	Serpens	18.36	-2.90	η Ser	3.23	1627.997	η
31	Serpens	15.83	-3.43	μ Ser	3.54	1547.776	μ
31	Serpens	17.63	-15.40	ξ Ser	3.54	1604.873	ξ
31	Serpens	15.77	15.42	β Ser	3.65	1545.962	β
31	Serpens	15.85	4.48	ε Ser	3.71	1548.408	ε
31	Serpens	15.58	10.54	δ Ser A	3.80	1539.942	δ
31	Serpens	15.81	18.14	κ Ser	4.09	1547.310	κ
31	Serpens	17.69	-12.88	o Ser	4.24	1606.897	o
31	Serpens	17.35	-12.85	v Ser	4.32	1596.008	v
31	Serpens	15.77	7.35	λ Ser	4.42	1546.098	λ
31	Serpens	15.69	19.67	ι Ser	4.51	1543.509	ι
31	Serpens	18.01	-3.69	ζ Ser	4.62	1616.978	ζ
31	Serpens	18.94	4.20	θ1 Ser	4.62	1646.454	θ1
31	Serpens	18.94	4.20	θ2 Ser	4.98	1646.467	θ2
31	Serpens	15.94	15.66	γ Ser	5.20	1551.387	γ

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**PRECISE DATES**

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32	Hercules	16.50	21.49	Kornephoros	2.78	1569.248	β
32	Hercules	16.69	31.60	Rutilicus	2.81	1575.102	ζ
32	Hercules	17.25	24.84	Sarin	3.12	1592.943	δ
32	Hercules	17.25	36.81	π Her	3.16	1592.952	π
32	Hercules	17.24	14.39	Ras Algethi	3.31	1592.740	α1
32	Hercules	17.77	27.72	μ Her	3.42	1609.566	μ
32	Hercules	16.71	38.92	η Her	3.48	1575.949	η
32	Hercules	17.96	29.25	ξ Her	3.70	1615.540	ξ
32	Hercules	16.37	19.15	γ Her	3.74	1564.856	γ
32	Hercules	17.66	46.01	ι Her	3.82	1605.863	ι
32	Hercules	18.13	28.76	ο Her	3.84	1620.712	ο
32	Hercules	18.39	21.77	109 Her	3.85	1629.254	
32	Hercules	17.94	37.25	θ Her	3.86	1614.744	θ
32	Hercules	16.33	46.31	τ Her	3.91	1563.704	τ
32	Hercules	17.00	30.93	ε Her	3.92	1585.147	ε
32	Hercules	18.76	20.55	110 Her	4.19	1640.870	
33	Cassiopeia	0.68	56.54	α Cas	2.24	1828.519	α
33	Cassiopeia	0.15	59.15	β Cas	2.28	1811.947	β
33	Cassiopeia	0.95	60.72	γ Cas	2.47	1837.086	γ
33	Cassiopeia	1.43	60.24	δ Cas	2.68	1852.478	δ
33	Cassiopeia	1.91	63.67	ε Cas	3.35	1867.594	ε
33	Cassiopeia	0.82	57.82	η Cas	3.46	1833.057	η
33	Cassiopeia	0.62	53.90	ζ Cas	3.69	1826.650	ζ
33	Cassiopeia	2.06	72.42	50 Cas	3.95	1872.375	
33	Cassiopeia	0.55	62.93	κ Cas	4.17	1824.550	κ
34	C. Minor	7.66	5.23	Procyon	0.34	2049.992	α
34	C. Minor	7.45	8.29	Gomeisa	2.89	2043.561	β
34	C. Minor	7.47	8.93	γ CMi	4.33	2044.097	γ
34	C. Minor	8.04	2.33	HD 66141	4.39	1300.632	
34	C. Minor	7.50	12.01	6 CMi	4.55	2044.960	
34	C. Minor	7.43	9.28	ε CMi	4.99	2042.767	ε
34	C. Minor	7.86	1.77	ζ CMi	5.12	2056.544	ζ
34	C. Minor	7.47	6.94	η CMi	5.22	2044.027	η
34	C. Minor	7.54	1.91	δ1 CMi	5.24	2046.178	δ1
35	Auriga	5.28	46.00	Capella	0.08	1974.569	α
35	Auriga	5.99	44.95	β Aur	1.90	1997.226	β
35	Auriga	6.00	37.21	θ Aur	2.62	1997.325	θ
35	Auriga	4.95	33.17	ι Aur	2.69	1964.155	ι
35	Auriga	5.03	43.82	ε Aur	3.03	1966.785	ε
35	Auriga	5.11	41.23	η Aur	3.18	1969.191	η
35	Auriga	5.04	41.08	ζ Aur	3.69	1967.055	ζ
35	Auriga	5.99	54.29	δ Aur	3.72	1997.223	δ
35	Auriga	5.55	32.19	χ Aur	4.71	1983.053	χ

Key	SIGN	Hour	DEC	STAR	Vis.	Date	B
36	C. Major	6.98	-28.97	ε CMa	1.50	2028.476	ε
36	C. Major	7.14	-26.39	δ CMa	1.83	2033.642	δ
36	C. Major	6.38	-17.96	β CMa	1.98	2009.477	β
36	C. Major	7.40	-29.30	η CMa	2.45	2041.945	η
36	C. Major	6.34	-30.06	ζ CMa	3.02	2008.217	ζ
36	C. Major	7.05	-23.83	ο2 CMa	3.02	2030.802	ο2
36	C. Major	6.90	-12.04	θ CMa	4.08	2026.132	θ
36	C. Major	7.06	-15.63	γ CMa	4.12	2031.189	γ
36	C. Major	6.94	-17.05	ι CMa	4.36	2027.160	ι
36	C. Major	6.93	-20.14	π CMa	4.66	2026.890	π
36	C. Major	6.75	-16.71	Sirius A, B	-1.46	2021.353	α
37	Sagitta	19.98	19.49	γ Sge	3.51	31.500	γ
37	Sagitta	19.79	18.53	δ Sge	3.82	3.300	δ
37	Sagitta	19.67	18.01	α Sge	4.38	50.200	α
37	Sagitta	19.68	17.48	β Sge	4.38	34.000	β
37	Sagitta	19.82	19.14	ζ Sge	5.01	31.100	ζ
37	Sagitta	20.09	19.99	η Sge	5.09	27.200	η
37	Sagitta	20.00	17.52	13 Sge	5.33	59.500	
37	Sagitta	19.96	16.79	11 Sge	5.54	20.800	
37	Sagitta	19.25	21.23	1 Sge	5.65	55.600	
38	Hydra	9.46	-8.66	Alphard	1.99	1345.750	α
38	Hydra	13.32	-23.17	γ Hya	2.99	1468.082	γ
38	Hydra	8.92	5.95	ζ Hya	3.11	1328.725	ζ
38	Hydra	10.83	-16.19	ν Hya	3.11	1389.134	ν
38	Hydra	14.11	-26.68	π Hya	3.25	1493.177	π
38	Hydra	8.78	6.42	ε Hya	3.38	1324.168	ε
38	Hydra	11.55	-31.86	ξ Hya	3.54	1412.074	ξ
38	Hydra	10.18	-12.35	λ Hya	3.61	1368.491	λ
38	Hydra	10.43	-16.84	μ Hya	3.83	1376.690	μ
38	Hydra	9.24	2.32	θ Hya	3.89	1338.757	θ
38	Hydra	9.66	-1.14	ι Hya	3.90	1352.239	ι
38	Hydra	8.43	-3.91	30 Mon	3.91	1313.003	C
38	Hydra	9.86	-14.85	υ1 Hya	4.11	1358.385	υ1
38	Hydra	8.63	5.70	δ Hya	4.14	1319.345	δ
38	Hydra	11.88	-33.91	β Hya	4.29	1422.599	β
38	Hydra	8.72	3.40	η Hya	4.30	1322.290	η
38	Hydra	8.77	-13.55	12 Hya	4.32	1323.956	D
38	Hydra	8.81	5.84	ρ Hya	4.35	1325.044	p
38	Hydra	14.84	-27.96	58 Hya	4.42	1516.403	E
38	Hydra	8.65	3.34	σ Hya	4.45	1319.929	σ

Key	SIGN	Hour	DEC	STAR	Vis.	Date	B
39	A.Carina	9.22	-69.72	β Car	1.67	1338.145	β
39	A.Carina	8.38	-59.51	ε Car	1.86	1311.337	ε
39	A.Carina	9.28	-59.28	ι Car	2.23	1340.198	ι
39	A.Carina	10.72	-64.39	θ Car	2.74	1385.609	θ
39	A.Carina	9.79	-65.07	υ Car	2.92	1356.069	υ
39	A.Carina	10.23	-70.04	ω Car	3.29	1370.157	ω
39	A.Carina	10.53	-61.69	p Car	3.30	1379.824	p
39	A.Carina	10.28	-61.33	V337 Car	3.39	1371.924	q
39	A.Carina	7.95	-52.98	χ Car	3.46	2059.228	χ
39	A.Carina	10.75	-59.68	η Car	4.47	1386.719	η
39	A.Carina	6.40	-52.70	Canopus	-0.72	2010.140	α
40	U.Minor	2.53	89.26	Polaris	1.97	1887.364	α
40	U.Minor	14.85	74.16	β UMi	2.07	1516.622	β
40	U.Minor	15.35	71.83	γ UMi	3.04	1532.499	γ
40	U.Minor	16.77	82.04	ε UMi	4.21	1577.576	ε
40	U.Minor	14.46	75.70	5 UMi	4.25	1504.365	
40	U.Minor	15.73	77.79	ζ UMi	4.29	1544.835	ζ
40	U.Minor	17.54	86.59	δ UMi	4.35	1602.030	δ
40	U.Minor	14.96	65.93	RR UMi	4.63	1520.261	
40	U.Minor	14.15	77.55	4 UMi	4.80	1494.487	
40	U.Minor	16.29	75.75	η UMi	4.95	1562.524	η
40	U.Minor	15.52	77.35	θ UMi	5.00	1538.150	θ
41	Cetus	0.73	-17.99	Diphda	2.04	1830.150	β
41	Cetus	3.04	4.09	Menkar	2.54	1903.492	α
41	Cetus	2.32	-2.98	Mira	3.04	1880.787	ο
41	Cetus	1.14	-10.18	Algenubi	3.46	1843.369	η
41	Cetus	2.72	3.24	γ Cet	3.47	1893.456	γ
41	Cetus	1.73	-15.94	τ Cet	3.49	1862.143	τ
41	Cetus	0.32	-8.82	ι Cet	3.56	1817.373	ι
41	Cetus	1.40	-8.18	θ Cet	3.60	1851.532	θ
41	Cetus	1.86	-10.33	ζ Cet	3.74	1866.042	ζ
41	Cetus	2.00	-21.08	υ Cet	3.99	1870.560	υ
41	Cetus	2.66	0.33	δ Cet	4.08	1891.435	δ
41	Cetus	2.74	-13.86	π Cet	4.24	1893.891	π
41	Cetus	2.75	10.11	μ Cet	4.27	1894.322	μ
41	Cetus	2.47	8.46	ξ2 Cet	4.30	1885.448	ξ2
41	Cetus	2.22	8.85	ξ1 Cet	4.36	1877.433	ξ1
41	Cetus	0.24	-18.93	7 Cet	4.44	1814.841	7
41	Cetus	0.06	-17.34	2 Cet	4.55	1809.076	2
41	Cetus	1.83	-10.69	χ Cet A	4.66	1865.049	χ
41	Cetus	3.00	8.91	λ Cet	4.71	1902.137	λ
41	Cetus	2.53	-15.24	σ Cet	4.74	1887.526	σ

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42	Perseus	3.90	31.88	Atik	2.84	1930.912	ζ
42	Perseus	3.96	40.01	ε Per	2.90	1932.880	ε
42	Perseus	3.08	53.51	γ Per A	2.91	1904.822	γ
42	Perseus	3.08	53.52	γ Per B	3.00	1904.790	γ
42	Perseus	3.72	47.79	δ Per	3.01	1924.985	δ
42	Perseus	3.09	38.84	ρ Per	3.32	1905.025	ρ
42	Perseus	2.84	55.90	η Per	3.77	1897.365	η
42	Perseus	3.75	42.58	ν Per	3.77	1926.185	ν
42	Perseus	3.16	44.86	κ Per	3.79	1907.306	κ
42	Perseus	3.74	32.29	ο Per	3.84	1925.722	ο
42	Perseus	2.90	52.76	τ Per A	3.93	1899.250	τ
42	Perseus	4.14	47.71	48 Per	3.96	1938.597	Ϸ
42	Perseus	3.98	35.79	ξ Per	3.98	1933.470	ξ
42	Perseus	2.91	52.76	τ Per B	4.00	1899.298	τ
42	Perseus	1.73	50.69	φ Per	4.01	1861.917	φ
43	Eridanus	1.63	-57.24	Achernar	0.45	1858.770	α
43	Eridanus	5.13	-5.09	β Eri	2.78	1969.895	β
43	Eridanus	2.97	-40.30	θ1 Eri	2.88	1901.366	θ1
43	Eridanus	3.97	-13.51	γ Eri	2.97	1932.972	γ
43	Eridanus	3.72	-9.77	δ Eri	3.52	1925.157	δ
43	Eridanus	4.30	-33.80	υ4 Eri	3.55	1943.477	υ4
43	Eridanus	2.28	-51.51	φ Eri	3.56	1879.286	φ
43	Eridanus	1.93	-51.61	χ Eri	3.69	1868.416	χ
43	Eridanus	3.33	-21.76	τ4 Eri	3.70	1912.608	τ4
43	Eridanus	3.55	-9.46	ε Eri	3.72	1919.706	ε
43	Eridanus	4.59	-30.56	υ2 Eri	3.81	1952.815	υ2
43	Eridanus	4.64	-14.30	53 Eri	3.86	1954.208	ι
43	Eridanus	2.94	-8.90	η Eri	3.89	1900.395	η
43	Eridanus	4.61	-3.35	ν Eri	3.93	1953.221	ν
43	Eridanus	4.40	-34.02	υ3 Eri	3.97	1946.726	υ3
43	Eridanus	4.76	-3.25	μ Eri	4.01	1958.079	μ
43	Eridanus	4.20	-6.84	ο1 Eri	4.04	1940.292	ο1
43	Eridanus	3.04	-23.62	τ3 Eri	4.08	1903.552	τ3
43	Eridanus	2.68	-39.86	ι Eri	4.11	1892.063	ι
44	Corvus	12.26	-17.54	γ Crv	2.58	1434.710	γ
44	Corvus	12.57	-23.40	β Crv	2.65	1444.533	β
44	Corvus	12.50	-16.52	δ Crv	2.94	1442.144	δ
44	Corvus	12.17	-22.62	ε Crv	3.02	1431.705	ε
44	Corvus	12.14	-24.73	α Crv	4.02	1430.797	α
44	Corvus	12.53	-16.20	η Crv	4.30	1443.311	η
44	Corvus	12.35	-13.57	HD 107418	5.15	1437.416	

Key	SIGN	Hour	DEC	STAR	Vis.	Date	B
45	Orion	5.24	-8.20	Rigel	0.18	1973.433	β
45	Orion	5.92	7.41	Betelgeuse	0.42	1994.920	α
45	Orion	5.42	6.35	Bellatrix	1.64	1979.036	γ
45	Orion	5.60	-1.20	Alnilam	1.69	1984.896	ε
45	Orion	5.68	-1.94	Alnitak A	1.88	1987.298	ζ
45	Orion	5.80	-9.67	Saiph	2.07	1990.998	κ
45	Orion	5.53	-0.30	Mintaka A	2.20	1982.669	δ
45	Orion	5.59	-5.91	ι Ori	2.75	1984.484	ι
45	Orion	4.83	6.96	π3 Ori	3.19	1960.370	π3
45	Orion	5.41	-2.40	η Ori	3.35	1978.690	η
45	Orion	5.59	9.93	Meissa A	3.47	1984.325	λ
45	Orion	5.29	-6.84	τ Ori	3.59	1975.054	τ
45	Orion	4.85	5.61	π4 Ori	3.68	1961.093	π4
45	Orion	5.68	-1.94	Alnitak B	3.70	1987.298	ζ
45	Orion	4.90	2.44	π5 Ori	3.71	1962.705	π5
45	Orion	5.65	-2.60	σ Ori AB	3.77	1986.235	σ
45	Orion	4.94	13.51	ο2 Ori	4.06	1963.825	ο2
45	Orion	5.62	9.29	φ2 Ori	4.09	1985.261	φ2
45	Orion	6.04	9.65	μ Ori	4.12	1998.734	μ
45	Orion	5.40	-7.81	29 Ori	4.13	1978.408	e
45	Orion	5.51	5.95	32 Ori	4.20	1982.025	A
45	Orion	4.84	8.90	π2 Ori	4.35	1960.779	π2
45	Orion	5.58	9.49	φ1 Ori	4.39	1984.157	φ1
45	Orion	5.91	20.28	χ1 Ori	4.39	1994.504	χ1
45	Orion	6.13	14.77	ν Ori	4.42	2001.478	ν
45	Orion	6.20	14.21	ξ Ori	4.45	2003.788	ξ
46	Pegasus	21.74	9.88	ε Peg	2.38	1735.277	ε
46	Pegasus	23.06	28.08	β Peg	2.44	1777.365	β
46	Pegasus	23.08	15.21	α Peg	2.49	1777.886	α
46	Pegasus	0.22	15.18	γ Peg	2.83	1814.098	γ
46	Pegasus	22.72	30.22	η Peg	2.93	1766.381	η
46	Pegasus	22.69	10.83	ζ Peg	3.41	1765.565	ζ
46	Pegasus	22.83	24.60	μ Peg	3.51	1770.084	μ
46	Pegasus	22.17	6.20	θ Peg	3.52	1749.035	θ
46	Pegasus	22.12	25.35	ι Peg	3.77	1747.347	ι
46	Pegasus	22.78	23.57	λ Peg	3.97	1768.247	λ
46	Pegasus	21.37	19.80	1 Peg	4.08	1723.591	
50	A. Puppis	8.06	-40.00	ζ Pup	2.21	1301.326	ζ
50	A. Puppis	7.29	-37.10	π Pup	2.71	2038.268	π
50	A. Puppis	8.13	-24.30	ρ Pup	2.83	1303.424	ρ
50	A. Puppis	6.83	-50.61	τ Pup	2.94	2023.882	τ
50	A. Puppis	6.63	-43.20	ν Pup	3.17	2017.444	ν
50	A. Puppis	7.49	-43.30	σ Pup	3.25	2044.662	σ
50	A. Puppis	7.82	-24.86	ξ Pup	3.34	2055.272	ξ
50	A. Puppis	7.75	-37.97	c Pup	3.62	2053.136	c
50	A. Puppis	7.87	-40.58	HD 64440	3.71	2056.817	a
50	A. Puppis	7.73	-28.95	3 Pup	3.94	2052.369	ι
50	A. Puppis	7.95	-22.88	11 Pup	4.20	2055.240	j
50	A. Puppis	7.80	-25.94	ο Pup	4.40	2059.273	ο

Key	SIGN	Hour	DEC	STAR	Vis.	Date	B
47	Centaurus	14.06	-60.37	Hadar	0.61	1491.828	β
47	Centaurus	14.66	-60.84	Toliman	1.35	1510.777	α
47	Centaurus	14.11	-36.37	Menkent	2.06	1493.345	θ
47	Centaurus	12.69	-48.96	γ Cen	2.20	1448.305	γ
47	Centaurus	13.66	-53.47	ε Cen	2.29	1479.172	ε
47	Centaurus	14.59	-42.16	η Cen	2.33	1508.585	η
47	Centaurus	13.93	-47.29	ζ Cen	2.55	1487.450	ζ
47	Centaurus	12.14	-50.72	δ Cen	2.58	1430.769	δ
47	Centaurus	13.34	-36.71	ι Cen	2.75	1468.974	ι
47	Centaurus	11.60	-63.02	λ Cen	3.11	1413.543	λ
47	Centaurus	14.99	-42.10	κ Cen	3.13	1521.092	κ
47	Centaurus	13.83	-41.69	ν Cen	3.41	1484.258	ν
47	Centaurus	13.83	-42.47	μ Cen	3.47	1484.315	μ
47	Centaurus	13.97	-42.10	φ Cen	3.83	1488.893	φ
47	Centaurus	12.63	-48.54	τ Cen	3.85	1446.288	τ
47	Centaurus	13.98	-44.80	υ1 Cen	3.87	1489.109	υ1
47	Centaurus	11.35	-54.49	π Cen	3.90	1405.728	π
47	Centaurus	13.52	-39.41	d Cen	3.90	1474.495	d
47	Centaurus	12.47	-50.23	σ Cen	3.91	1441.176	σ
47	Centaurus	12.19	-52.37	ρ Cen	3.97	1432.511	ρ
47	Centaurus	14.66	-60.84	Rigil Kent.	-0.01	1510.793	α
48	Cepheus	21.31	62.59	α Cep	2.45	1721.735	α
48	Cepheus	23.66	77.63	γ Cep	3.21	1796.178	γ
48	Cepheus	21.48	70.56	β Cep	3.23	1727.068	β
48	Cepheus	22.18	58.20	ζ Cep	3.39	1749.380	ζ
48	Cepheus	20.75	61.84	η Cep	3.41	1704.131	η
48	Cepheus	22.83	66.20	ι Cep	3.50	1769.912	ι
48	Cepheus	22.49	58.42	δ Cep A	4.07	1759.067	δ
48	Cepheus	22.25	57.04	ε Cep	4.18	1751.589	ε
48	Cepheus	20.49	62.99	θ Cep	4.21	1695.825	θ
49	Bootes	14.75	27.07	Izar	2.35	1513.598	ε
49	Bootes	13.91	18.40	Muphrid	2.68	1486.996	η
49	Bootes	14.75	27.07	ε Boo	2.70	1513.598	ε
49	Bootes	14.53	38.31	Seginus	3.04	1506.773	γ
49	Bootes	15.26	33.32	δ Boo	3.46	1529.735	δ
49	Bootes	15.03	40.39	β Boo	3.49	1522.564	β
49	Bootes	14.53	30.37	ρ Boo	3.57	1506.640	ρ
49	Bootes	14.69	13.73	ζ Boo	3.78	1511.567	ζ
49	Bootes	14.42	51.85	θ Boo	4.04	1503.133	θ
49	Bootes	13.82	15.80	υ Boo	4.05	1484.242	υ
49	Bootes	14.27	46.09	λ Boo	4.18	1498.472	λ
49	Bootes	14.26	19.19	Arcturus	-0.05	1498.095	α

**PRECISE DATES - ALL HOURS SINCE 1st PASSOVER**

Era. Hour	Exact Date
1.16	1493.734 BC
1.17	1462.005 BC
1.18	1430.276 BC
1.19	1398.547 BC
1.20	1366.818 BC
1.21	1335.089 BC
1.22	1303.359 BC
1.23	1271.630 BC
1.24	1239.901 BC

Length 1 Hour:

**31.7291667**

Date Last Supper:

**30.265593**

April 7, 30 AD

Era. Hour	Exact Date
2.01	1208.172 BC
2.02	1176.443 BC
2.03	1144.714 BC
2.04	1112.984 BC
2.05	1081.255 BC
2.06	1049.526 BC
2.07	1017.797 BC
2.08	986.068 BC
2.09	954.339 BC
2.10	922.609 BC
2.11	890.880 BC
2.12	859.151 BC
2.13	827.422 BC
2.14	795.693 BC
2.15	763.964 BC
2.16	732.234 BC
2.17	700.505 BC
2.18	668.776 BC
2.19	637.047 BC
2.20	605.318 BC
2.21	573.589 BC
2.22	541.859 BC
2.23	510.130 BC
2.24	478.401 BC

Era. Hour	Exact Date
3.01	446.672 BC
3.02	414.943 BC
3.03	383.214 BC
3.04	351.484 BC
3.05	319.755 BC
3.06	288.026 BC
3.07	256.297 BC
3.08	224.568 BC
3.09	192.839 BC
3.10	161.109 BC
3.11	129.380 BC
3.12	97.651 BC
3.13	65.922 BC
3.14	34.193 BC
3.15	2.464 BC
3.16	30.266 AD
3.17	61.995 AD
3.18	93.724 AD
3.19	125.453 AD
3.20	157.182 AD
3.21	188.911 AD
3.22	220.641 AD
3.23	252.370 AD
3.24	284.099 AD

Era. Hour	Exact Date
4.01	315.828 AD
4.02	347.557 AD
4.03	379.286 AD
4.04	411.016 AD
4.05	442.745 AD
4.06	474.474 AD
4.07	506.203 AD
4.08	537.932 AD
4.09	569.661 AD
4.10	601.391 AD
4.11	633.120 AD
4.12	664.849 AD
4.13	696.578 AD
4.14	728.307 AD
4.15	760.036 AD
4.16	791.766 AD
4.17	823.495 AD
4.18	855.224 AD
4.19	886.953 AD
4.20	918.682 AD
4.21	950.411 AD
4.22	982.141 AD
4.23	1013.870 AD
4.24	1045.599 AD

Era. Hour	Exact Date
5.01	1077.328 AD
5.02	1109.057 AD
5.03	1140.786 AD
5.04	1172.516 AD
5.05	1204.245 AD
5.06	1235.974 AD
5.07	1267.703 AD
5.08	1299.432 AD
5.09	1331.161 AD
5.10	1362.891 AD
5.11	1394.620 AD
5.12	1426.349 AD
5.13	1458.078 AD
5.14	1489.807 AD
5.15	1521.536 AD
5.16	1553.266 AD
5.17	1584.995 AD
5.18	1616.724 AD
5.19	1648.453 AD
5.20	1680.182 AD
5.21	1711.911 AD
5.22	1743.641 AD
5.23	1775.370 AD
5.24	1807.099 AD

Era. Hour	Exact Date
6.01	1838.828 AD
6.02	1870.557 AD
6.03	1902.286 AD
6.04	1934.016 AD
6.05	1965.745 AD
6.06	1997.474 AD
6.07	2029.203 AD
6.08	2060.932 AD
6.09	2092.661 AD
6.10	2124.391 AD
6.11	2156.120 AD
6.12	2187.849 AD
6.13	2219.578 AD
6.14	2251.307 AD
6.15	2283.036 AD
6.16	2314.766 AD
6.17	2346.495 AD
6.18	2378.224 AD
6.19	2409.953 AD
6.20	2441.682 AD
6.21	2473.411 AD
6.22	2505.141 AD
6.23	2536.870 AD
6.24	2568.599 AD

**Note:** This table is extremely useful for cross-referencing the meaning of signs. For example, suppose Orion is of interest. Orion lies between the 5<sup>th</sup> Hour and the 6<sup>th</sup> Hour. Using this table the student could examine all the periods of recorded history between the 5<sup>th</sup> and 6<sup>th</sup> Hours. For example: 442 to 474 AD, 1204 to 1235 AD, 1965 to 1997 AD. If the meaning of Orion never changes, then we should see Orion-like effects in all the eras where it appears. Our analysis of the meaning of Orion is greatly assisted by understanding the declination of a star can be translated to a Bible chapter by the formula: 1 + (90 - Declination). The Declination of Rigel, the alpha star of Orion, is -8.2. So the Bible Chapter corresponding to Orion is: 1 + (90 - -8.2) = 1 + 98.2 = 99.3, which is Leviticus 9. Further assisting our investigation into the meaning of Orion its order in the Signs: 45<sup>th</sup>. Orion will be portrayed in Genesis 45 (45<sup>th</sup> chapter of Bible) and the Book of Romans (45<sup>th</sup> book of Bible). The author has already investigated all the Star Signs using these tools. This research is available on [www.biblenumbersforlife.com](http://www.biblenumbersforlife.com) just click on the STARS link in the menu at the top of the page. The length of the Hour has been determined by taking the number of years between the 1<sup>st</sup> Passover and the Last Supper and dividing by two full cycles, or Eras, of Star Signs, i.e. 2 x 48 = 96 Hours. My date for the 1<sup>st</sup> Passover is different than the date I see popularly referenced. The difference is 50 years. The student may wish to refer to documents on the TIME page on the site for a thorough explanation of my dating results and methodology. I have found History confirms the dating of the Hours in the table above. However, given uncertainties in basing calculations on events that occurred thousands of years ago, we have to assume a margin of error. Use with caution.