

Lunisolar cycles at $\begin{matrix} 2000 \text{ AD} \\ -128 \text{ AD} \end{matrix}$.

Based on digits in agreement between Chapront AA, **387**, 700 (2002) and Simon *et al.* AA, **282**, 663 (1994).

Cycle	Cycle/86400s	6585.46d/Cycle	6939.75d/Cycle
$\text{C} - \Omega_{\text{C}} =$	27.212, 2 ^{20,815} _{12,1--}	242.003, ^{769,00} _{847,--}	255.023, ^{287,04} _{369,--}
$\text{C} - \Upsilon =$	27.321, 5 ^{82,252} _{78,2--}	241.035, ^{088,65} _{124,--}	254.002, ^{492,83} _{530,--}
$\text{C} - \star =$	27.321, 6 ^{61,553} _{56,8--}	241.034, ^{389,04} _{431,--}	254.001, ^{755,58} _{800,--}
$\text{C} - \varpi_{\star} =$	27.321, 67 ^{9,865} _{4,8--}	241.034, 2 ^{27,49} _{72,--}	254.001, ^{585,34} _{633,--}
$\text{C} - \varpi_{\text{C}} =$	27.554, 5 ^{49,886} _{70,1--}	239.002, ^{809,79} _{985,--}	252.145, ^{042,15} _{227,--}
$\text{C} - \odot =$	29.530, 58 ^{8,861} _{3,3--}	223.004, ^{696,29} _{738,--}	235.002, ^{086,57} _{131,--}
$\odot - \Omega_{\text{C}} =$	346.6 ^{20,075,-} _{19,415,2}	19.000, ^{927,29} _{891,15}	20.021, 2 ^{00,47} _{38,56}
$\odot - \Upsilon =$	365.242, ^{190,42} _{318,--}	18.030, 3 ^{92,361} _{86,1--}	19.000, ^{406,256} _{399,6--}
$\odot - \star =$	365.256, 36 ^{2,96} _{0,51}	18.029, 692, ⁷⁵² ₈₇₃	19.000, 330, ⁹⁹⁰ ₈₆₃
$\odot - \varpi_{\star} =$	365.259, ^{635,77} _{568,9-}	18.029, 53 ^{1,202} _{4,51-}	19.000, ^{501,232} _{497,75-}
$\odot - \varpi_{\text{C}} =$	411.7 ^{84,430,4} _{90,012,4}	16.007, ^{506,080} _{722,87-}	17.147, ^{128,723} _{357,17-}
$\varpi_{\text{C}} - \Omega_{\text{C}} =$	2190. ^{350,05} _{165,80}	3.006, ^{578,79} _{831,72}	3.168, ^{329,20} _{595,73}
$\varpi_{\text{C}} - \Upsilon =$	3231. ^{495,68} _{161,91}	2.03 ^{7,898,441} _{8,108,95-}	2.147, ^{534,980} _{756,81-}
$\varpi_{\text{C}} - \star =$	3232. ^{605,43} _{261,28}	2.037, ^{198,833} _{415,74-}	2.14 ^{6,797,733} _{7,026,31-}
$\varpi_{\text{C}} - \varpi_{\star} =$	3232. ^{861,792} _{512,5--}	2.037, ^{037,282} _{257,37-}	2.146, ^{627,492} _{859,42-}
$\Omega_{\text{C}} - \varpi_{\star} =$	-6792. ³⁴⁴⁶ ₁₁₄₅	-1.030, 4 ^{58,49} _{25,7-}	-1.021, 7 ^{01,70} _{36,31}
$\Omega_{\text{C}} - \star =$	-6793. ⁴⁷⁶⁵ ₂₂₄₁	-1.030, ^{620,04} _{584,02}	-1.021, 5 ^{31,46} _{69,42}
$\Omega_{\text{C}} - \Upsilon =$	-6798. ³⁸³⁰ ₀₈₅₃	-1.031, ^{319,65} _{277,23}	-1.020, ^{794,22} _{838,91}
$\varpi_{\star} - \Upsilon =$	7, ^{647,207} _{733,2--} 2	0.000, 8 ^{61,158,82} _{51,58,--}	0.000, ^{907,488,16} _{897,39,--}
$\Upsilon - \star =$	-9, ^{413,06-} _{500,0--}	-0.000, 69 ^{9,609} _{3,21-}	-0.000, 73 ^{7,247} _{0,50-}
$\varpi_{\star} - \star =$	4 ^{0,764,08-} _{1,59,--}	0.000, 1 ^{61,550,57} _{58,37,--}	0.000, 1 ^{70,241,80} _{66,89,--}

Lunisolar cycles at ^{2000 AD}
^{1900 AD}•

Based on digits in agreement between Chapront AA, **387**, 700 (2002) and Simon *et al.* AA, **282**, 663 (1994).

Cycle	Cycle/86400s	6585.46d/Cycle	6939.75d/Cycle
$\text{☾} - \Omega_{\text{☾}} =$	27.212, 220, ⁸¹⁵ ₄₀₋	242.003, 7 ^{69,00} _{72,6-}	255.023, 2 ^{87,04} _{90,9-}
$\text{☾} - \Upsilon =$	27.321, 582, ²⁵² ₀₇₀	241.035, 0 ^{88,65} _{90,2-}	254.002, 49 ^{2,83} _{4,52}
$\text{☾} - \star =$	27.321, 661, ⁵⁵³ ₃₃₇	241.034, 3 ^{89,04} _{90,9-}	254.001, 75 ^{5,58} _{7,60}
$\text{☾} - \varpi_{\star} =$	27.321, 679, ⁸⁶⁵ ₆₃₂	241.034, 22 ^{7,49} _{9,5-}	254.001, 58 ^{5,34} _{7,51}
$\text{☾} - \varpi_{\text{☾}} =$	27.554, 5 ^{49,886} _{50,891}	239.002, 8 ^{09,79} _{18,51}	252.145, 0 ^{42,15} _{51,34}
$\text{☾} - \text{☼} =$	29.530, 588, ⁸⁶¹ ₆₀₉	223.004, 69 ^{6,29} _{8,19}	235.002, 08 ^{6,57} _{8,58}
$\text{☼} - \Omega_{\text{☾}} =$	346.620, 0 ^{75,-} _{42,2}	19.000, 92 ^{7,29} _{5,52}	20.021, 20 ^{0,47} _{2,34}
$\text{☼} - \Upsilon =$	365.242, 19 ^{0,42} _{6,6-}	18.030, 392, ³⁶¹ ₀₅₉	19.000, 40 ^{6,256} _{5,938}
$\text{☼} - \star =$	365.256, 362, ⁹⁶ ₈₄	18.029, 692, 75 ² ₈	19.000, 330, 9 ⁹⁰ ₈₄
$\text{☼} - \varpi_{\star} =$	365.259, 63 ^{5,77} _{2,66}	18.029, 531, ²⁰² ₃₅₆	19.000, ^{501,232} _{501,070}
$\text{☼} - \varpi_{\text{☾}} =$	411.784, ^{430,4-} _{703,94}	16.007, 5 ^{06,080} _{16,702}	17.147, 1 ^{28,723} _{39,917}
$\varpi_{\text{☾}} - \Omega_{\text{☾}} =$	2190.3 ^{50,05} _{41,02}	3.006, 5 ^{78,79} _{91,19}	3.168, 3 ^{29,20} _{42,26}
$\varpi_{\text{☾}} - \Upsilon =$	3231.4 ^{95,68-} _{79,311}	2.037, ^{898,441} _{908,761}	2.147, 5 ^{34,980} _{45,855}
$\varpi_{\text{☾}} - \star =$	3232. ^{605,43-} _{588,561}	2.037, ^{198,833} _{209,461}	2.146, ^{797,733} _{808,933}
$\varpi_{\text{☾}} - \varpi_{\star} =$	3232.8 ^{61,792} _{44,691}	2.037, 0 ^{37,282} _{48,058}	2.146, 6 ^{27,492} _{38,847}
$\Omega_{\text{☾}} - \varpi_{\star} =$	-6792.3 ⁴⁴⁶ ₃₃₂	-1.030, 45 ^{8,49} _{6,87}	-1.021, 70 ^{1,70} _{3,41}
$\Omega_{\text{☾}} - \star =$	-6793.4 ⁷⁶⁵ ₆₄₂	-1.030, 6 ^{20,04} _{18,27}	-1.021, 53 ^{1,46} _{3,32}
$\Omega_{\text{☾}} - \Upsilon =$	-6798.3 ⁸³⁰ ₆₈₄	-1.031, 31 ^{9,65} _{7,57}	-1.020, 79 ^{4,22} _{6,40}
$\varpi_{\star} - \Upsilon =$	7, 6 ^{47,207} _{51,257} 2	0.000, 86 ^{1,158,82} _{0,703,02}	0.000, 907, ^{488,16} _{007,8-}
$\Upsilon - \star =$	-9, 41 ^{3,06-} _{7,20-}	-0.000, 699, ⁶⁰⁹ ₃₀₁	-0.000, 73 ^{7,247} _{6,923}
$\varpi_{\star} - \star =$	40, ^{764,08-} _{801,53-}	0.000, 161, ^{550,57} _{402,29}	0.000, 170, ^{241,80} _{085,5-}

Lunisolar cycles at 2000 AD
1950 AD.

Based on digits in agreement between Chapront AA, 387, 700 (2002) and Simon *et al.* AA, 282, 663 (1994).

Cycle	Cycle/86400s	6585.46d/Cycle	6939.75d/Cycle
$\text{C} - \Omega_{\text{C}} =$	27.212, 220, $\frac{815}{608}$	242.003, 7 $\frac{69,00}{70,84}$	255.023, 28 $\frac{7,04}{8,98}$
$\text{C} - \Upsilon =$	27.321, 582, $\frac{252}{161}$	241.035, 08 $\frac{8,65}{9,44}$	254.002, 49 $\frac{2,83}{3,67}$
$\text{C} - \star =$	27.321, 661, $\frac{553}{445}$	241.034, 389, $\frac{04}{99}$	254.001, 75 $\frac{5,58}{6,59}$
$\text{C} - \varpi_{\star} =$	27.321, 679, $\frac{865}{749}$	241.034, 22 $\frac{7,49}{8,51}$	254.001, 58 $\frac{5,34}{6,42}$
$\text{C} - \varpi_{\text{C}} =$	27.554, 5 $\frac{49,886}{50,389}$	239.002, 8 $\frac{09,79}{14,16}$	252.145, 04 $\frac{2,15}{6,75}$
$\text{C} - \odot =$	29.530, 588, $\frac{861}{735}$	223.004, 69 $\frac{6,29}{7,23}$	235.002, 08 $\frac{6,57}{7,57}$
$\odot - \Omega_{\text{C}} =$	346.620, 0 $\frac{75}{59}$	19.000, 92 $\frac{7,29}{6,40}$	20.021, 20 $\frac{0,47}{1,41}$
$\odot - \Upsilon =$	365.242, 19 $\frac{0,42}{3,5-}$	18.030, 392, $\frac{361}{210}$	19.000, 406, $\frac{256}{097}$
$\odot - \star =$	365.256, 362, 9 $\frac{6}{0}$	18.029, 692, 75 $\frac{2}{5}$	19.000, 330, 9 $\frac{90}{87}$
$\odot - \varpi_{\star} =$	365.259, 63 $\frac{5,77}{4,22}$	18.029, 531, 2 $\frac{02}{79}$	19.000, 501, $\frac{232}{151}$
$\odot - \varpi_{\text{C}} =$	411.784, $\frac{430,4-}{567,31}$	16.007, 5 $\frac{06,080}{11,396}$	17.147, 1 $\frac{28,723}{34,325}$
$\varpi_{\text{C}} - \Omega_{\text{C}} =$	2190.3 $\frac{50,05}{45,53}$	3.006, 5 $\frac{78,79}{85,00}$	3.168, 3 $\frac{29,20}{35,73}$
$\varpi_{\text{C}} - \Upsilon =$	3231.4 $\frac{95,68}{87,49}$	2.037, $\frac{898,441}{903,606}$	2.147, 5 $\frac{34,980}{40,422}$
$\varpi_{\text{C}} - \star =$	3232. $\frac{605,43}{596,99}$	2.037, $\frac{198,833}{204,151}$	2.146, $\frac{797,733}{803,338}$
$\varpi_{\text{C}} - \varpi_{\star} =$	3232.8 $\frac{61,792}{53,234}$	2.037, 0 $\frac{37,282}{42,675}$	2.146, 6 $\frac{27,492}{33,174}$
$\Omega_{\text{C}} - \varpi_{\star} =$	-6792.3 $\frac{446}{389}$	-1.030, 45 $\frac{8,49}{7,68}$	-1.021, 70 $\frac{1,70}{2,56}$
$\Omega_{\text{C}} - \star =$	-6793.47 $\frac{65}{03}$	-1.030, 6 $\frac{20,04}{19,16}$	-1.021, 53 $\frac{1,46}{2,39}$
$\Omega_{\text{C}} - \Upsilon =$	-6798.3 $\frac{830}{757}$	-1.031, 31 $\frac{9,65}{8,61}$	-1.020, 79 $\frac{4,22}{5,31}$
$\varpi_{\star} - \Upsilon =$	7, 64 $\frac{7,207}{9,231} \cdot \frac{2}{6}$	0.000, 86 $\frac{1,158,82}{0,930,92}$	0.000, 907, $\frac{488,16}{247,99}$
$\Upsilon - \star =$	-9, 41 $\frac{3,06-}{5,13-}$	-0.000, 699, $\frac{609}{455}$	-0.000, 737, $\frac{247}{085}$
$\varpi_{\star} - \star =$	40, 7 $\frac{64,08-}{82,79-}$	0.000, 161, $\frac{550,57}{476,4-}$	0.000, 170, $\frac{241,80}{163,69}$

**Lunisolar cycles at ^{2000 AD}
2011.0 AD.**

Based on digits in agreement between Chapront AA, **387**, 700 (2002) and Simon *et al.* AA, **282**, 663 (1994).

Cycle	Cycle/86400s	6585.46d/Cycle	6939.75d/Cycle
$\text{C} - \Omega_{\text{C}} =$	27.212, 220, 8 ¹⁵ ₆₁	242.003, 76 ^{9,00} _{8,59}	255.023, 28 ^{7,04} _{6,62}
$\text{C} - \Upsilon =$	27.321, 582, 2 ⁵² ₇₂	241.035, 088, ⁶⁵ ₄₇	254.002, 492, ⁸³ ₆₄
$\text{C} - \star =$	27.321, 661, 5 ⁵³ ₇₇	241.034, 38 ^{9,04} _{8,83}	254.001, 755, ⁵⁸ ₃₆
$\text{C} - \varpi_{\star} =$	27.321, 679, 8 ⁶⁵ ₉₁	241.034, 227, ⁴⁹ ₂₆	254.001, 585, ³⁴ ₁₀
$\text{C} - \varpi_{\text{C}} =$	27.554, 549, ⁸⁸⁶ ₇₇₅	239.002, 80 ^{9,79} _{8,83}	252.145, 04 ^{2,15} _{1,14}
$\text{C} - \odot =$	29.530, 588, 8 ⁶¹ ₈₈	223.004, 696, ²⁹ ₀₈	235.002, 086, ⁵⁷ ₃₅
$\odot - \Omega_{\text{C}} =$	346.620, 07 ^{5,-} _{8,1}	19.000, ^{927,29} _{927,48}	20.021, 200, ⁴⁷ ₂₇
$\odot - \Upsilon =$	365.242, 1 ^{90,42} _{89,75}	18.030, 392, 3 ⁶¹ ₉₄	19.000, 406, 2 ⁵⁶ ₉₁
$\odot - \star =$	365.256, 362, 9 ⁶ ₇	18.029, 692, 752	19.000, 330, 99 ⁰ ₁
$\odot - \varpi_{\star} =$	365.259, 63 ^{5,77} _{6,12}	18.029, 531, ²⁰² ₁₈₅	19.000, 501, 2 ³² ₅₀
$\odot - \varpi_{\text{C}} =$	411.784, 4 ^{30,4-} _{00,30}	16.007, 50 ^{6,080} _{4,910}	17.147, 12 ^{8,723} _{7,489}
$\varpi_{\text{C}} - \Omega_{\text{C}} =$	2190.35 ^{0,05} _{1,04}	3.006, 57 ^{8,79} _{7,43}	3.168, 32 ^{9,20} _{7,76}
$\varpi_{\text{C}} - \Upsilon =$	3231.49 ^{5,68-} _{7,479}	2.037, 89 ^{8,441} _{7,304}	2.147, 53 ^{4,980} _{3,781}
$\varpi_{\text{C}} - \star =$	3232.60 ^{5,43} _{7,29}	2.037, 19 ^{8,833} _{7,662}	2.146, 79 ^{7,733} _{6,499}
$\varpi_{\text{C}} - \varpi_{\star} =$	3232.86 ^{1,792} _{3,68-}	2.037, 03 ^{7,282} _{6,095}	2.146, 62 ^{7,492} _{6,240}
$\Omega_{\text{C}} - \varpi_{\star} =$	-6792.34 ⁴⁶ ₅₈	-1.030, 458, ⁴⁹ ₆₇	-1.021, 701, ⁷⁰ ₅₂
$\Omega_{\text{C}} - \star =$	-6793.47 ⁶⁵ ₇₉	-1.030, 620, ⁰⁴ ₂₃	-1.021, 531, ⁴⁶ ₂₆
$\Omega_{\text{C}} - \Upsilon =$	-6798.38 ³⁰ ₄₆	-1.031, 319, ⁶⁵ ₈₈	-1.020, 79 ^{4,22} _{3,97}
$\varpi_{\star} - \Upsilon =$	7, 64 ^{7,207 2} _{6,762 0}	0.000, 861, ^{158,82} _{208,96}	0.000, 907, ^{488,16} _{540,99}
$\Upsilon - \star =$	-9, 41 ^{3,06-} _{2,61-}	-0.000, 699, 6 ⁰⁹ ₄₂	-0.000, 737, 2 ⁴⁷ ₈₂
$\varpi_{\star} - \star =$	40, 7 ^{64,08-} _{59,97-}	0.000, 161, 5 ^{50,57} _{66,87}	0.000, 170, 2 ^{41,80} _{58,98}