



**Historical Markers:**

50933 Dashed Vertical Line Tishrei 4119 = year of Hillel II  
 71291 Solid Vertical Line Tishrei 5765 = present year

**Traditional Molad Period = 29 days 12 hours 793 parts = 29 days 12 hours 44 minutes 1 part = 29.53059414 days.**

**Mean Synodic Month (Reingold & Dershowitz) = 29.53058885 days.**

**Apparent Mean Synodic Month at present = 29.53058751 solar days = 0.57 seconds shorter than Molad period.**

**Astronomical Mean Synodic Month (Meeus) = 29 days 12 hours 44 minutes = 29.53055556 days.**

**Apparent Mean Synodic Month is getting shorter at the rate of 0.33 mean solar seconds per 1000 years.**

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Calendar and astronomy calculations as per "Calendrical Calculations: The Millennium Edition", by Edward Reingold & Nachum Dershowitz, 2001.

Astronomical calculations upgraded per "Astronomical Algorithms", by Jean Meeus, 2nd edition, 1998.