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. [one part = 3 1/3 seconds]  
Apparent Mean Synodic Month at present = 29.53058752 solar days = 0.57 seconds shorter than Molad.  
Apparent Mean Synodic Month is getting shorter at the average rate of 0.33 mean solar seconds per 1000 years.  
Astronomical Mean Synodic Month (Meeus) = 29 days 12 hours 44 minutes = 29.53055556 days (1 part shorter than Molad).  

Historical Markers dark vertical lines), by Hebrew Year:
2448 Traditional date of Revelation at Mount Sinai.
3378 Kidinnu (Cidenas), Chaldean Astronomer, Babylon (Julian 383 BCE).
4119 Hillel II fixed the arithmetic Hebrew calendar, using accurate Molad to predict Mean Lunar Conjunctions.
5765 The present (at the time of preparing this report), mean lunation about 0.6 seconds shorter than Molad.  

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