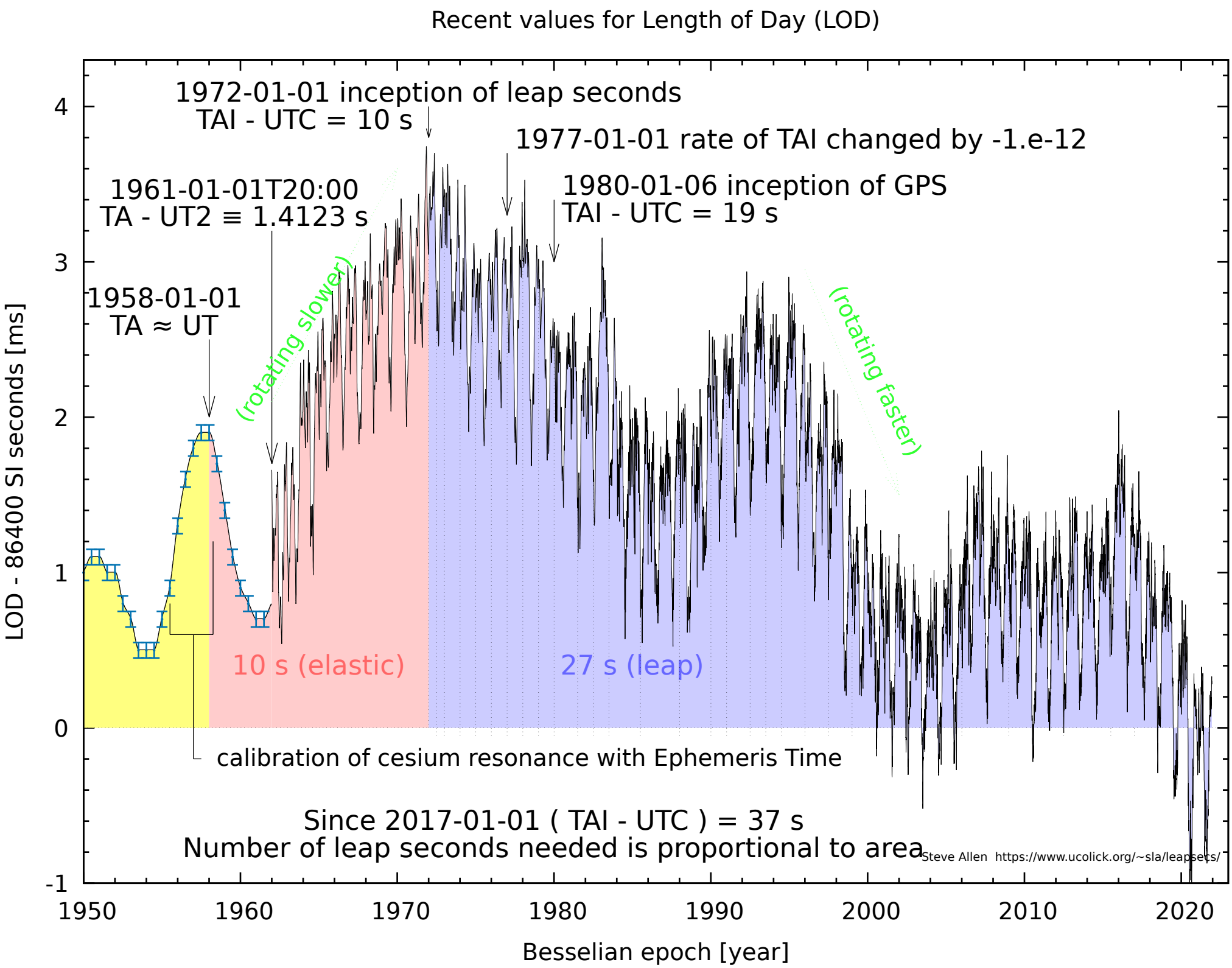
Recent values for Length of Day (LOD)
1972-01-01 inception of leap seconds
TAI - UTC = 10 s
1977-01-01 rate of TAI changed by -1.e-12
1980-01-06 inception of GPS
TAI - UTC = 19 s
1961-01-01T20:00
TA - UT2 ≡ 1.4123 s
1958-01-01
TA ≈ UT
(rotating slower)
(rotating faster)
10 s (elastic)
27 s (leap)
calibration of cesium resonance with Ephemeris Time
Since 2017-01-01 (TAI - UTC) = 37 s
Number of leap seconds needed is proportional to area
Steve Allen https://www.ucolick.org/~sla/leapsecs/
LOD - 86400 SI seconds [ms]
Besselian epoch [year]
4
3
2
1
0
-1
1950
1960
1970
1980
1990
2000
2010
2020