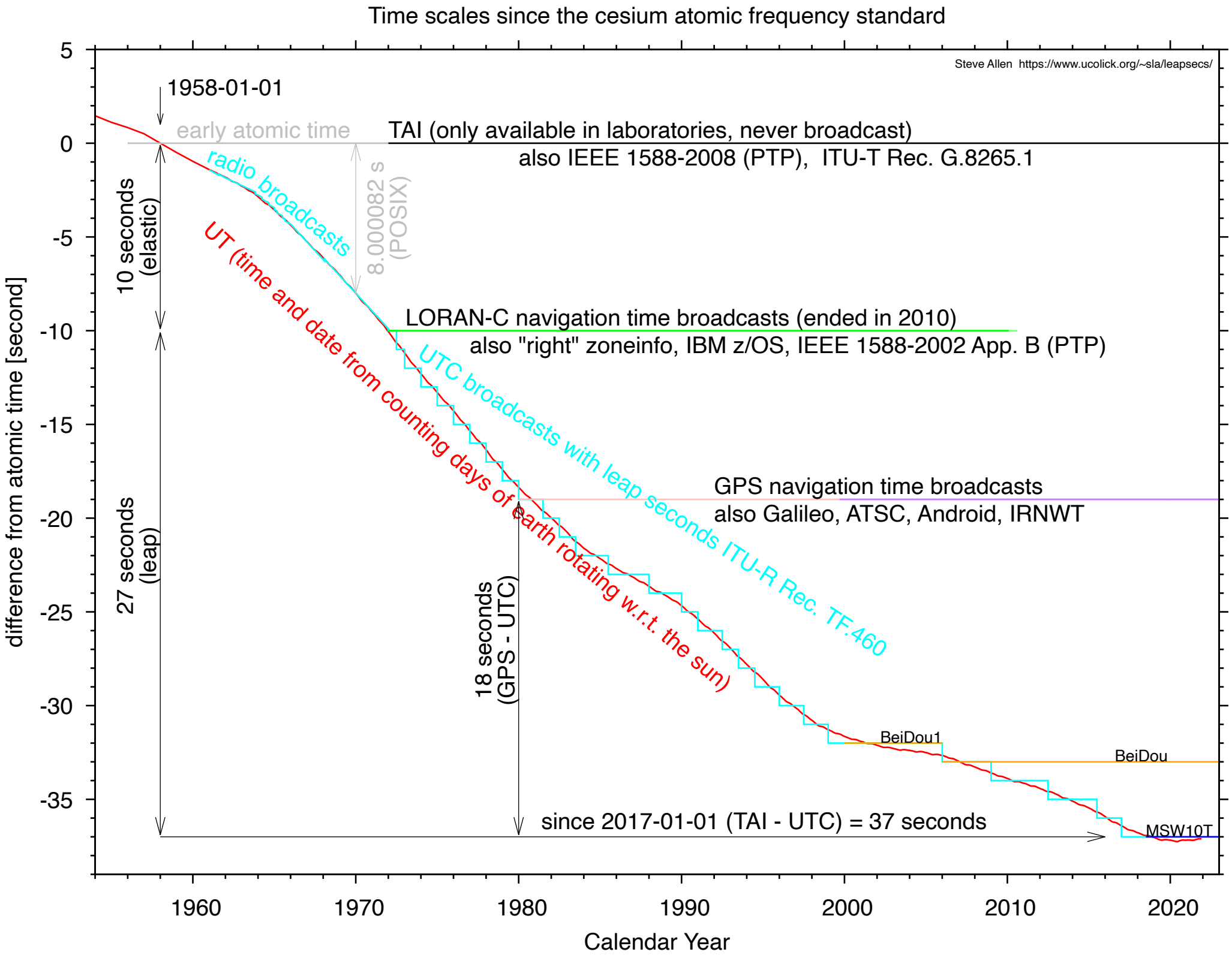
Time scales since the cesium atomic frequency standard
Steve Allen https://www.ucolick.org/~sla/leapsecs/
1958-01-01
early atomic time
TAI (only available in laboratories, never broadcast)
also IEEE 1588-2008 (PTP), ITU-T Rec. G.8265.1
radio broadcasts
8.000082 s (POSIX)
10 seconds (elastic)
UT (time and date from counting days of earth rotating w.r.t. the sun)
LORAN-C navigation time broadcasts (ended in 2010)
also "right" zoneinfo, IBM z/OS, IEEE 1588-2002 App. B (PTP)
UTC broadcasts with leap seconds ITU-R Rec. TF.460
GPS navigation time broadcasts
also Galileo, ATSC, Android, IRNWT
27 seconds (leap)
18 seconds (GPS - UTC)
BeiDou1
BeiDou
MSW10T
since 2017-01-01 (TAI - UTC) = 37 seconds
difference from atomic time [second]
5
0
-5
-10
-15
-20
-25
-30
-35
1960
1970
1980
1990
2000
2010
2020
Calendar Year