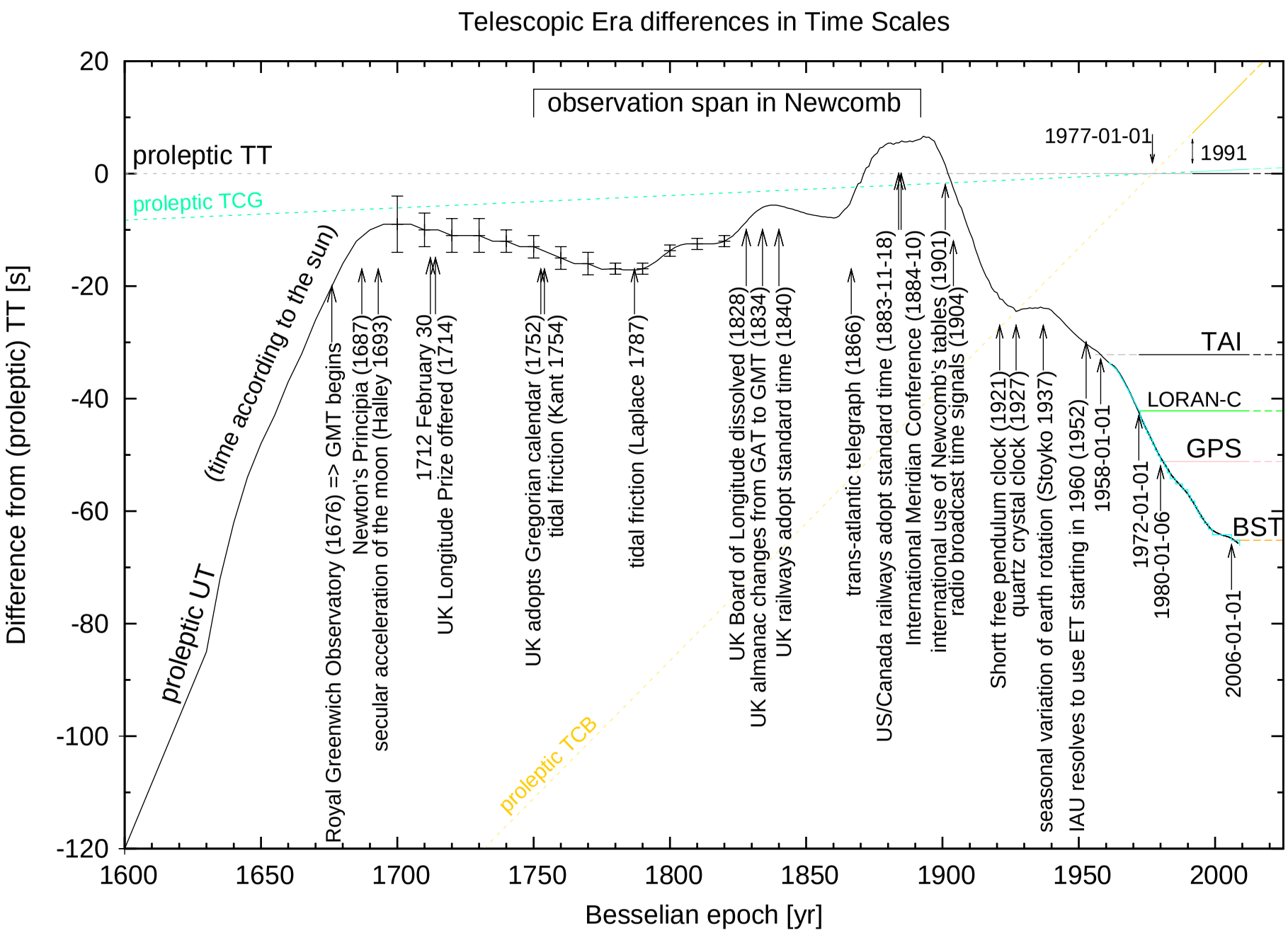
Telescopic Era differences in Time Scales
observation span in Newcomb
proleptic TT
proleptic TCG
proleptic TCB
proleptic UT
(time according to the sun)
1977-01-01
1991
TAI
LORAN-C
GPS
BST
Royal Greenwich Observatory (1676) => GMT begins
Newton's Principia (1687)
secular acceleration of the moon (Halley 1693)
1712 February 30
UK Longitude Prize offered (1714)
UK adopts Gregorian calendar (1752)
tidal friction (Kant 1754)
tidal friction (Laplace 1787)
UK Board of Longitude dissolved (1828)
UK almanac changes from GAT to GMT (1834)
UK railways adopt standard time (1840)
trans-atlantic telegraph (1866)
US/Canada railways adopt standard time (1883-11-18)
International Meridian Conference (1884-10)
international use of Newcomb's tables (1901)
radio broadcast time signals (1904)
Shortt free pendulum clock (1921)
quartz crystal clock (1927)
seasonal variation of earth rotation (Stoyko 1937)
IAU resolves to use ET starting in 1960 (1952)
1958-01-01
1972-01-01
1980-01-06
2006-01-01
Difference from (proleptic) TT [s]
Besselian epoch [yr]
20
0
-20
-40
-60
-80
-100
-120
1600
1650
1700
1750
1800
1850
1900
1950
2000