Invention of telescope

Ancient and future values for Length of Day (LOD)

Integrated values of DT in 0.5 h increments

Integrated values of DT in 1 h increments

Ancient and future data from
Morrison, Stephenson, Hohenkerk, Zawilski (2020)

Recent data from IERS Paris C04

shorter LOD means earth rotating faster
longer LOD means earth rotating more slowly

Steve Allen https://www.ucolick.org/~sla/leapsecvs/