Northward Equinox Relative to Last Sunset Before Nisan

Every 19th year connected, 130/353 cycle, $\Delta=139$, molad and SOLEX equinox referred to Nile-Euphrates midpoint, NASA Espenak-Meeus Delta T

Chart starts with Rabbi Elazar's leap rule (3 2 3 3 2 3 3) in Second Temple era, switches to the Sages' leap rule (3 2 3 3 2 3 2) in 3765 = last century of Second Temple = first century of Julian calendar, and then to Rabban Gamliel's leap rule (3 3 2 3 3 2) in 4119 = 359 AD, simply by omitting an octaeteris at each switch.

Traditional Hebrew calendar drifted 7 to 8 days since the era of Hillel ben Yehudah until the present era. Start using the Rectified Hebrew Calendar at Nisan 5769.

With every 19th year connected, the equinox swings from the earliest to the latest dates whenever the improved leap rule inherently omits an 8-year subcycle (octaeteris), which occurs at the middle of each 353-year cycle [9(19) + 11 + 9(19) = 353].