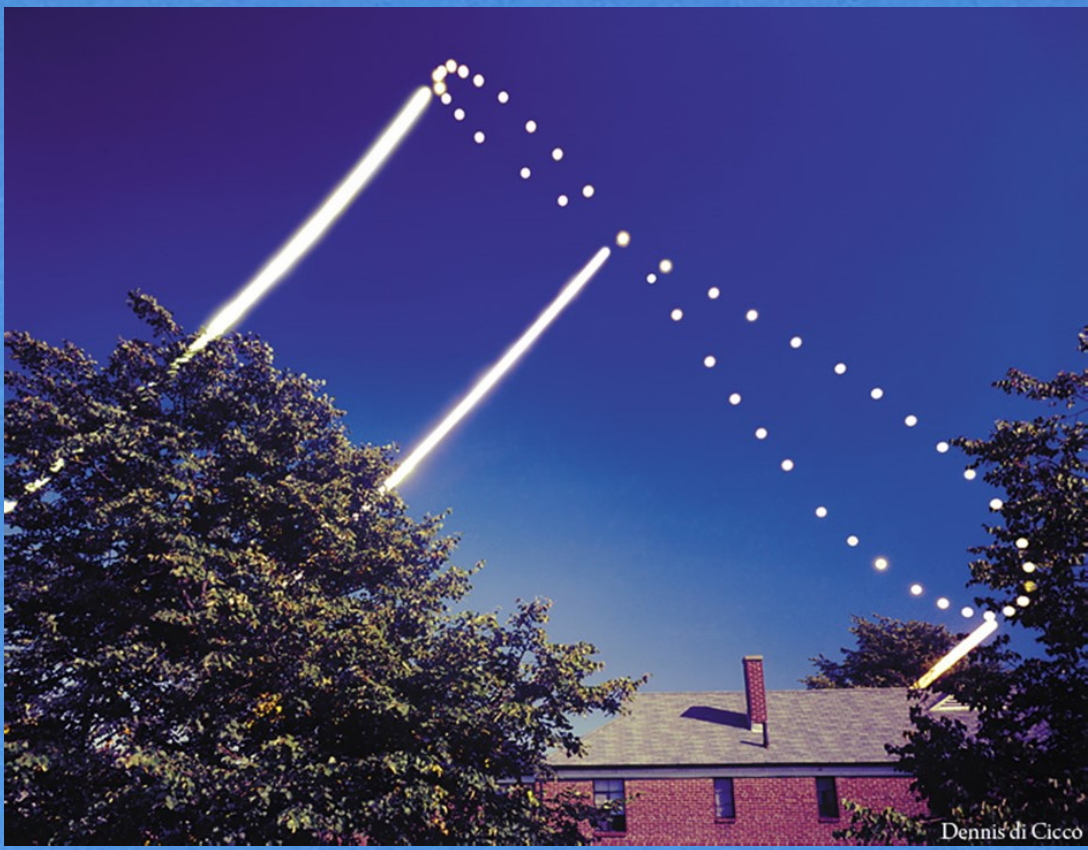


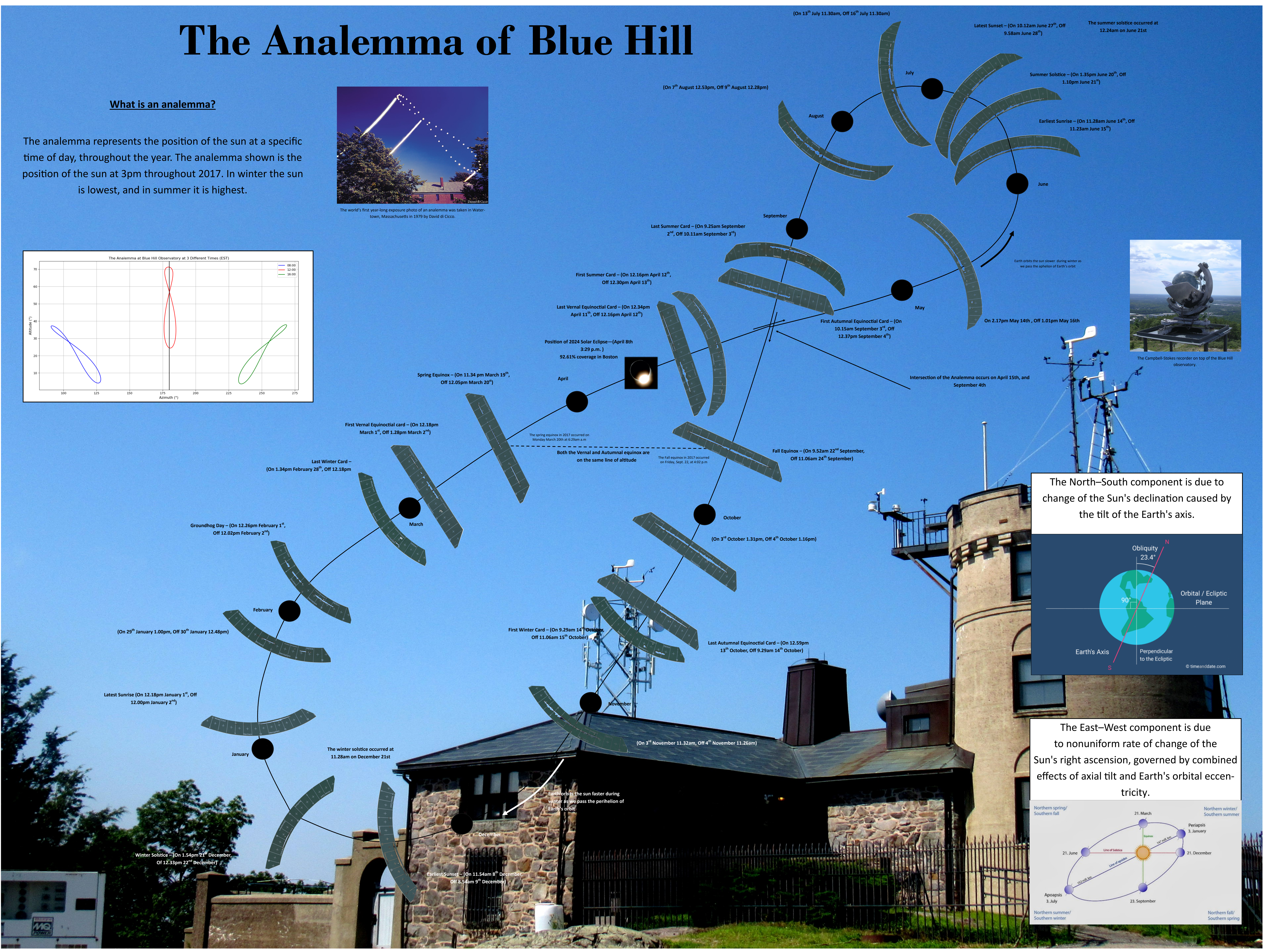
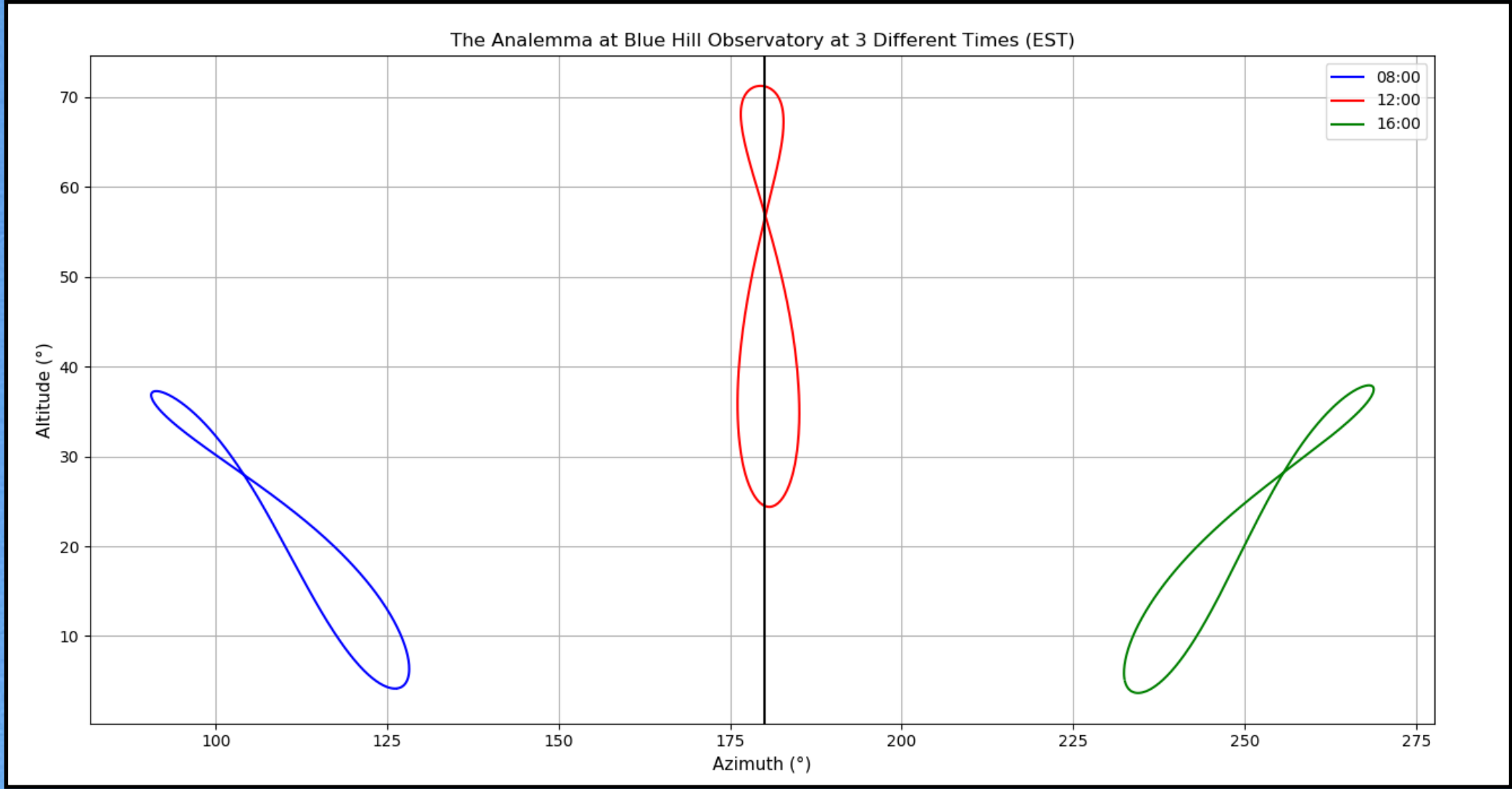
The Analemma of Blue Hill

What is an analemma?

The analemma represents the position of the sun at a specific time of day, throughout the year. The analemma shown is the position of the sun at 3pm throughout 2017. In winter the sun is lowest, and in summer it is highest.

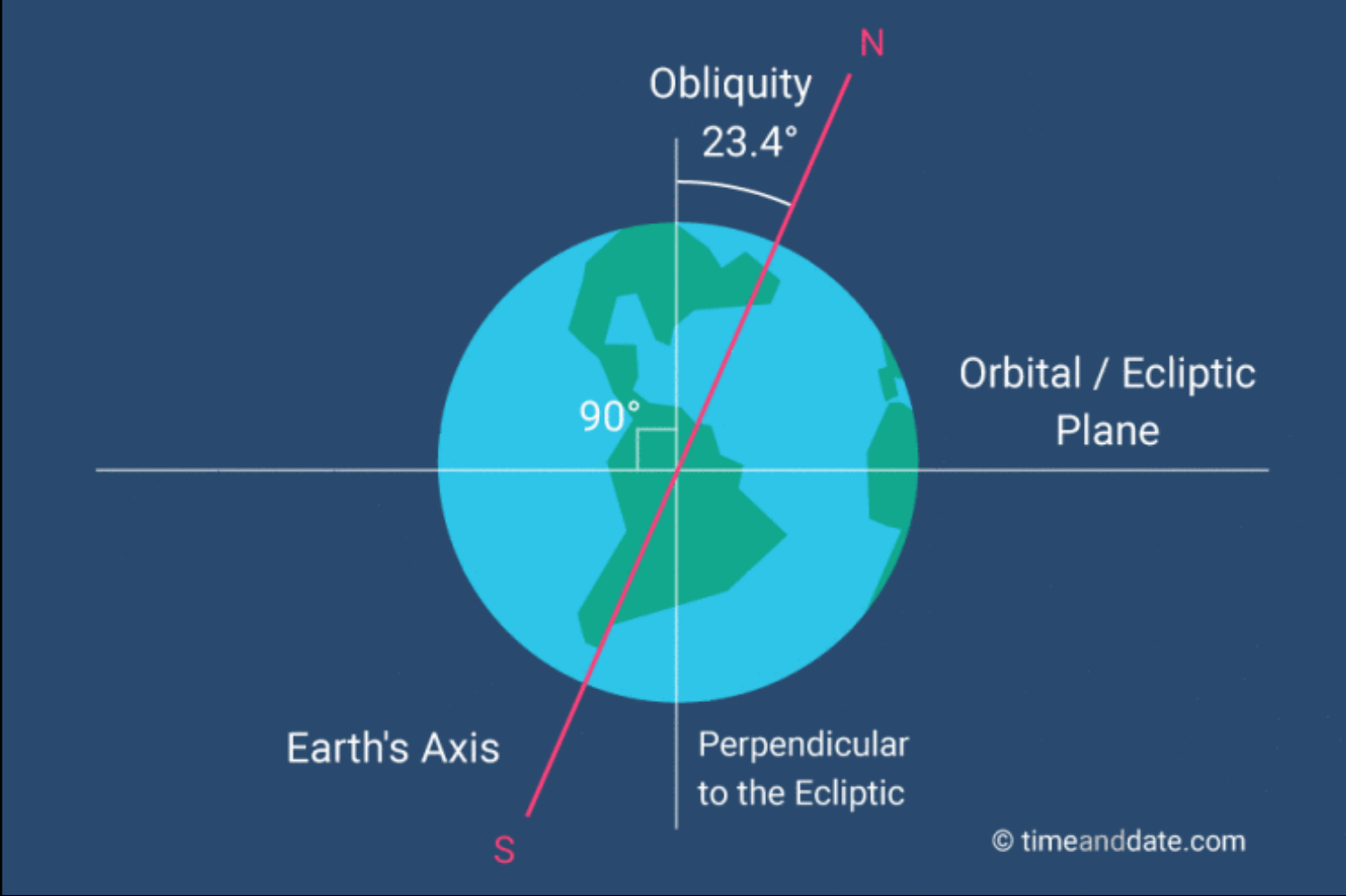


The world's first year-long exposure photo of an analemma was taken in Watertown, Massachusetts in 1979 by David di Cicco.



The Campbell-Stokes recorder on top of the Blue Hill observatory.

The North–South component is due to change of the Sun's declination caused by the tilt of the Earth's axis.



The East–West component is due to nonuniform rate of change of the Sun's right ascension, governed by combined effects of axial tilt and Earth's orbital eccentricity.

