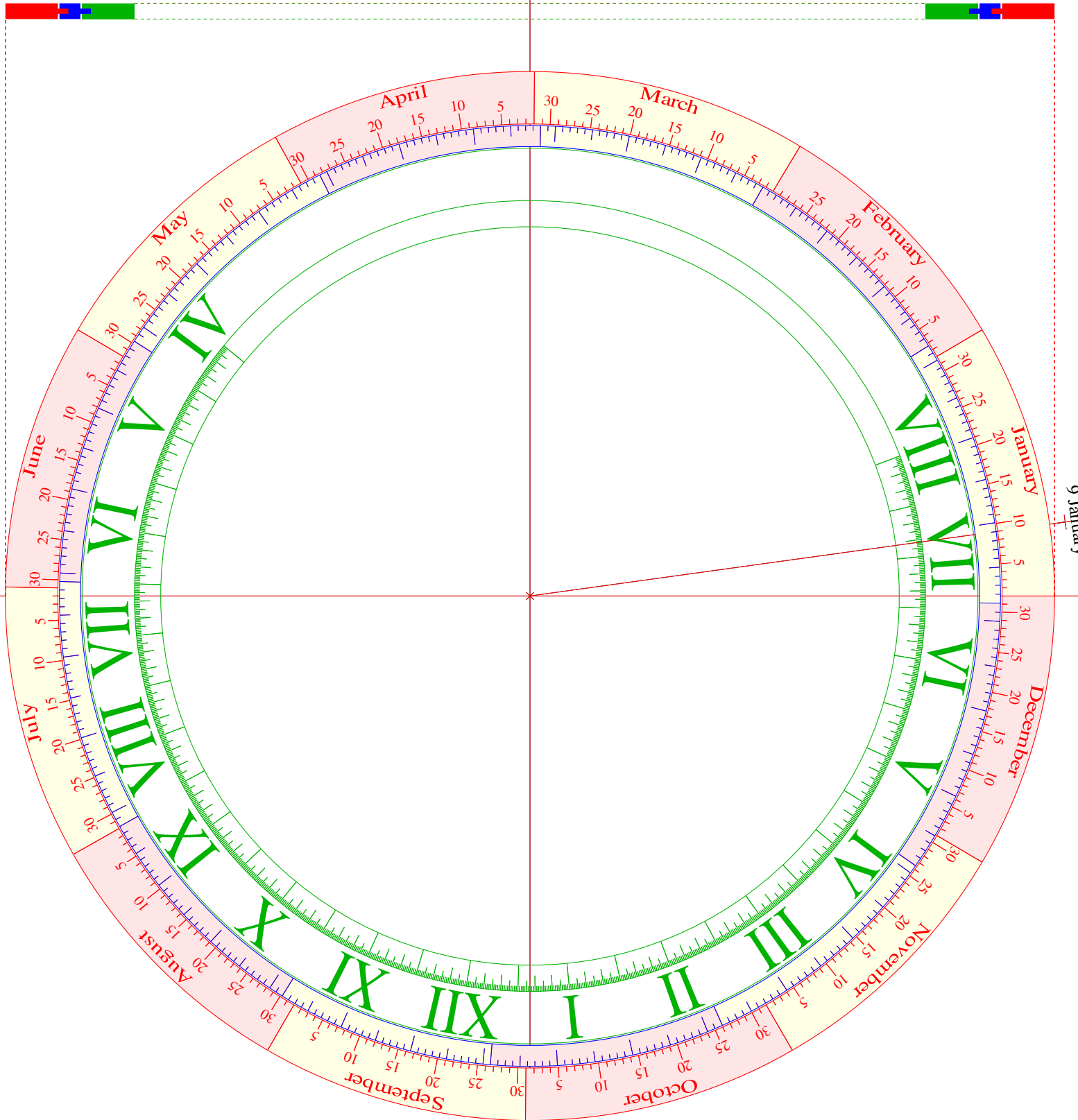


Concept for Civil Time Armillary - showing the Equatorial Ring

7.5 deg West : 7 deg 30 min West : Time Zone 0 hrs.

Set for 9 January - when EoT is zero - showing Longitude Correction



The Equatorial Ring consists of 3 rings (Red, Blue & Green) that can rotate on each other.

The Red ring is fixed to the meridian circles of the Armillary sphere in the usual way.

... It is marked with Months and Days - evenly spaced

The Blue ring is rotated daily against the Red ring.

... It is marked with (Months and) Days - unevenly spaced. Each day, the blue day marker is matched to the red day marker.

... This corrects for the Equation of Time.

... The rotation of this ring is constrained (not shown, above) to cover only the annual variation of the EoT.

... This means that the ring does not require month names.

The Green ring has Hour markers on the flat surfaces and Minute markers on the inner curve : (minute markers shown here in 2-D).

... it is semi-permanently locked to the Blue ring and is used to adjust for Summer Time, if required.

This concept is an adaption of Pilkington's Sol Horometer method of circa 1910. Kevin Karney pinxit - 10 Nov 2012.