

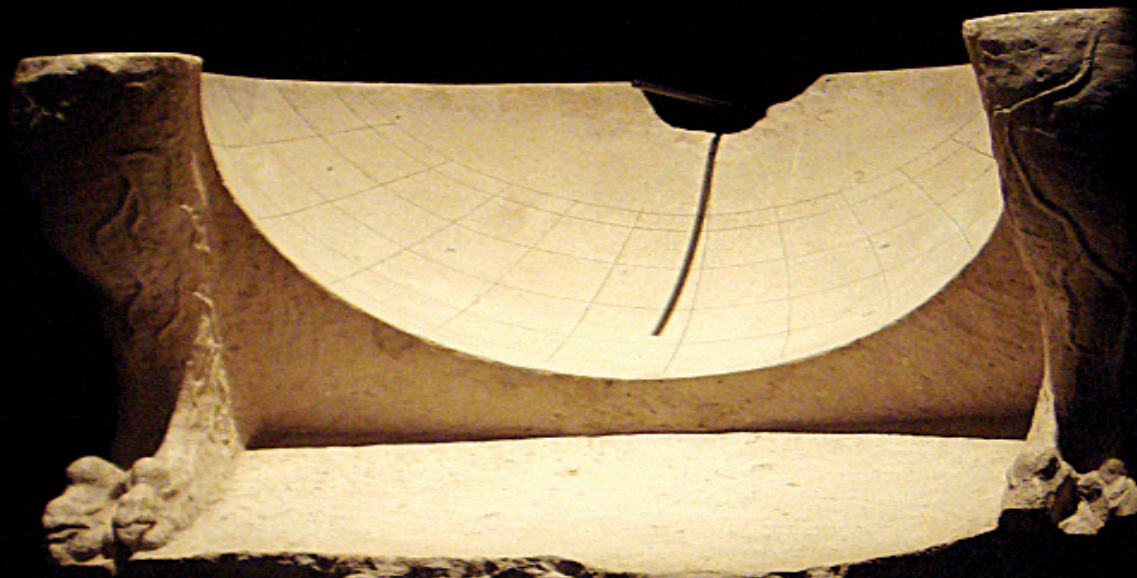
# Consequences of Decoupling UTC on Sundials

Denis Savoie

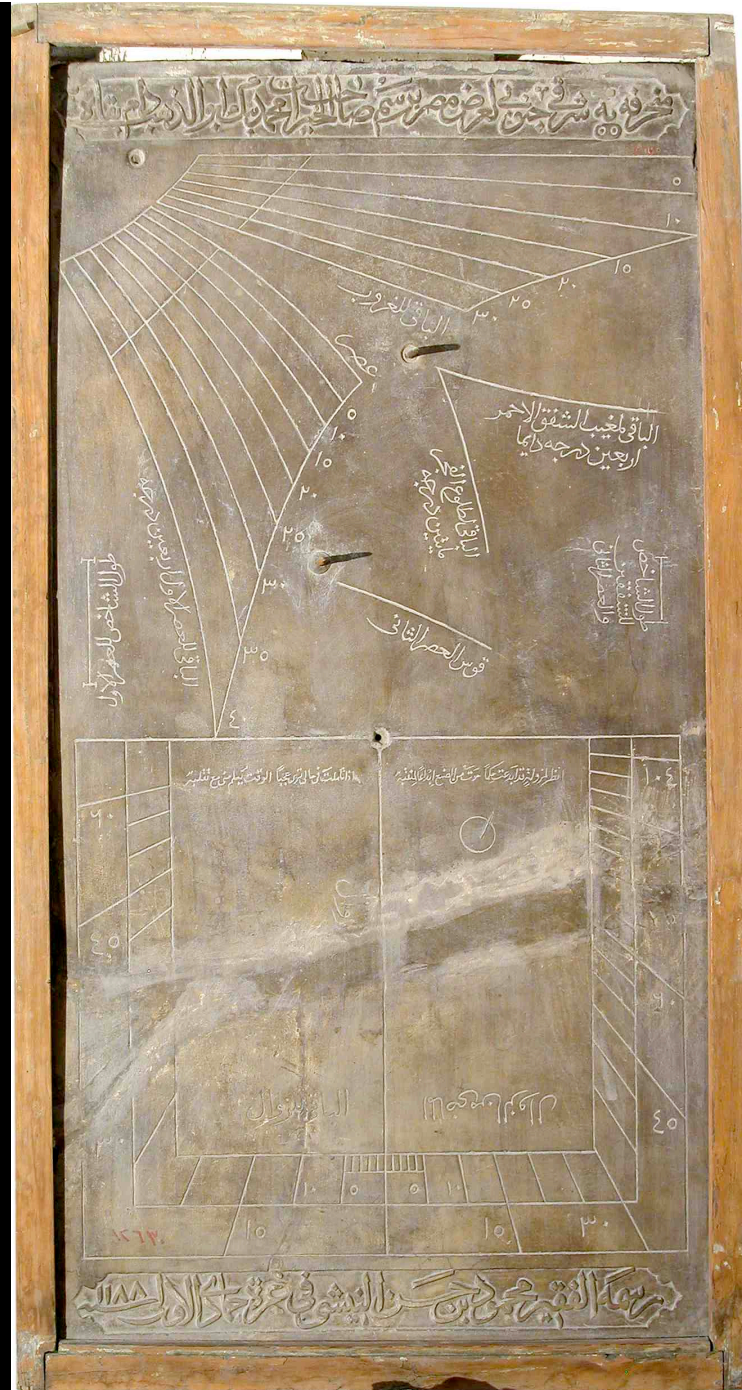
SYRTE Paris Observatoire  
Palais de la découverte



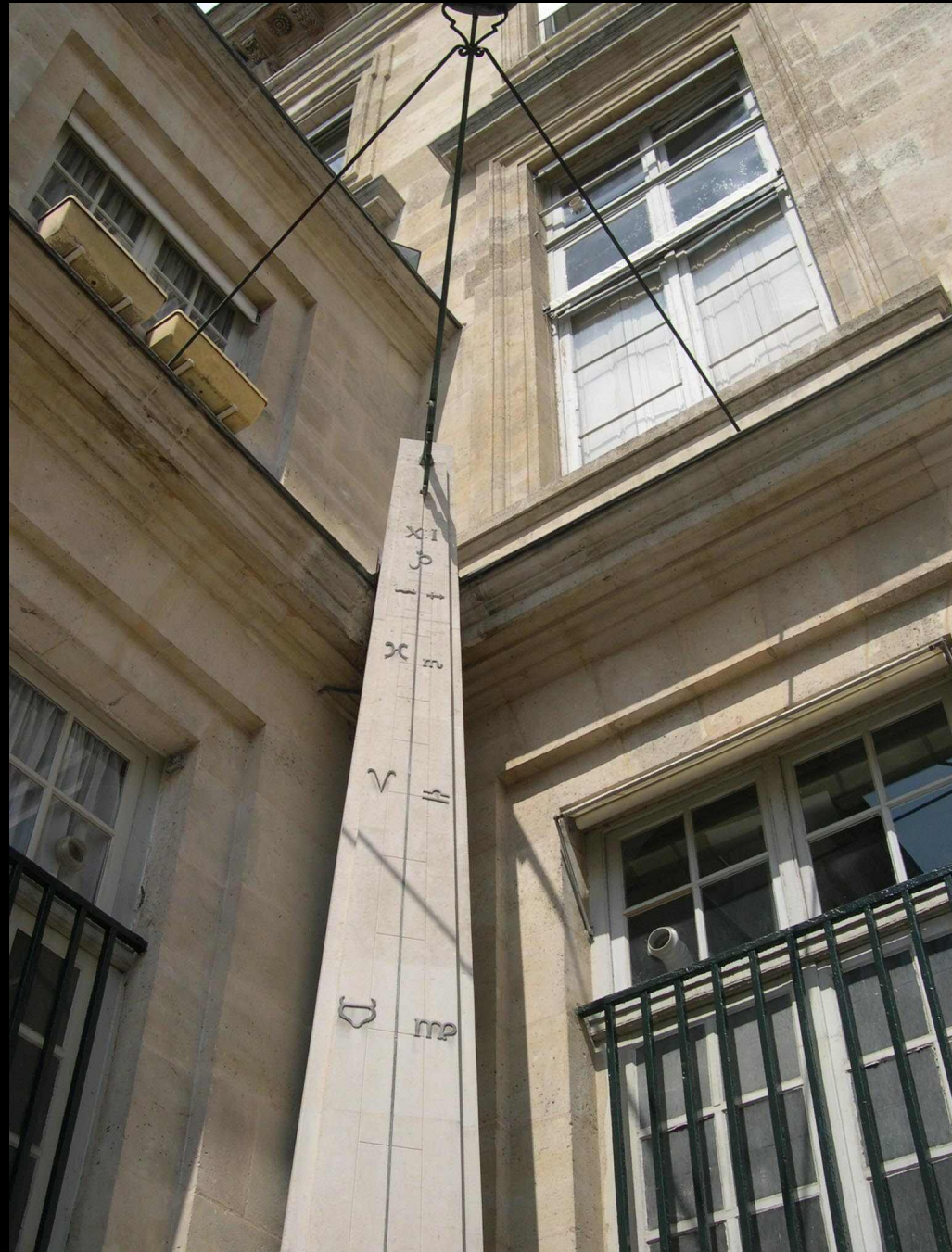
Greek sundial  
from Ai Khanoum (200-100 B.C.)



# Arab-Islamic Sundial in Cairo 1774



True  
meridian  
sundial in  
Paris



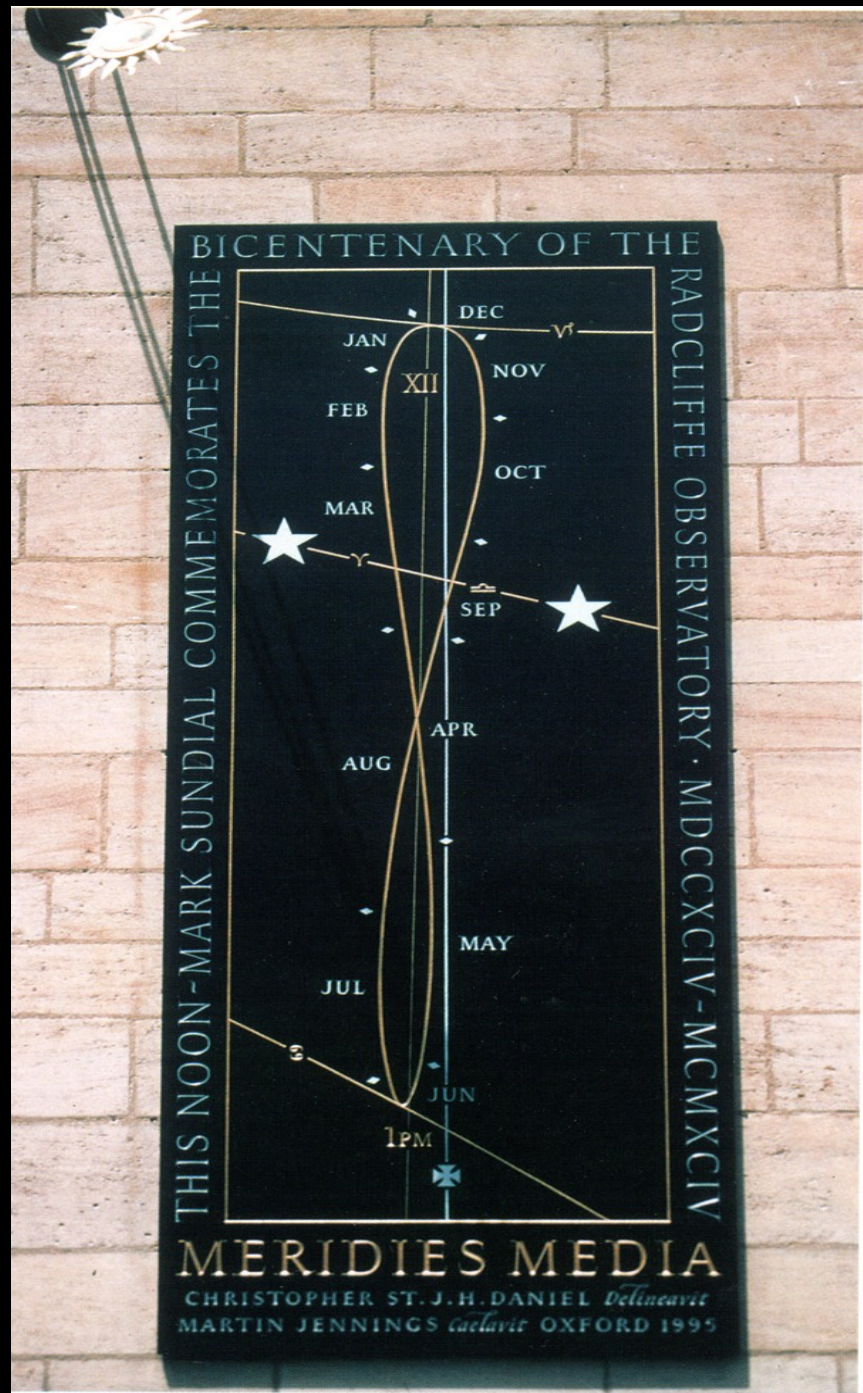
- Meridian sundial in the Church in Palermo



- D. Savoie shows the penumbral effect for the famous St Sulpice sundial in Paris



- Analemma in the Radcliffe Observatory in Oxford



# Cordoba Palacio de la Deputation





# In Europe :

- Today :

Local Clock Time = Solar Time + equation of time + longitude + 1 h or 2 h

- After suppression of leap seconds :

Local Clock Time = Solar Time + equation of time + longitude + 1 h or 2 h +  $\Delta E$

### Variation of the equation of time between 2001 to 2101

