



Orientatio ad Sidera (OAS)

a comprehensive project for cultural astronomy
research in ancient Mediterranean cultures

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Instituto de Astrofísica de Canarias



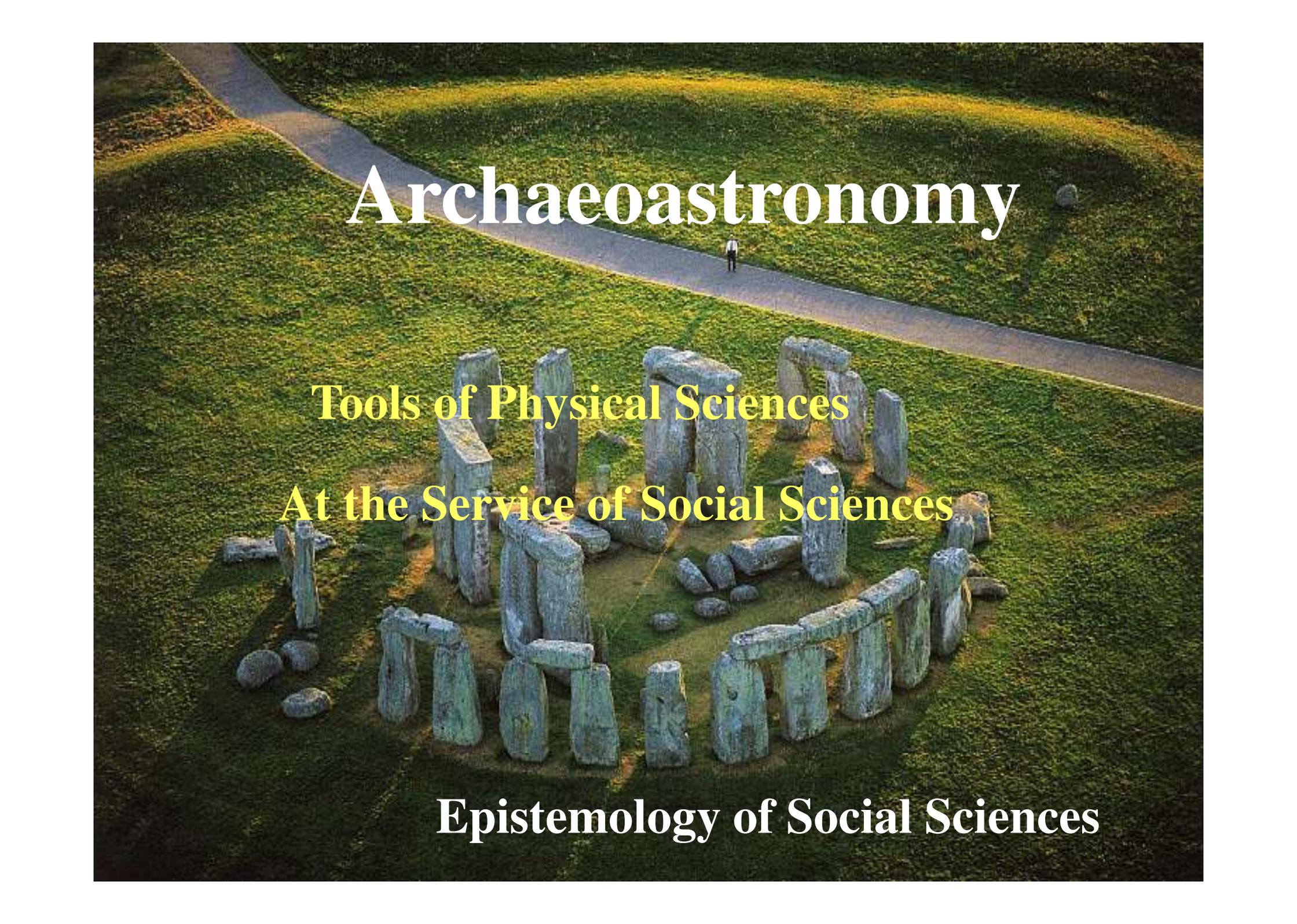
A. César González García

Instituto de Ciencias del Patrimonio, CSIC

Andrea Rodríguez Antón

Instituto de Astrofísica de Canarias

IAU-GA Honolulu
August 2015

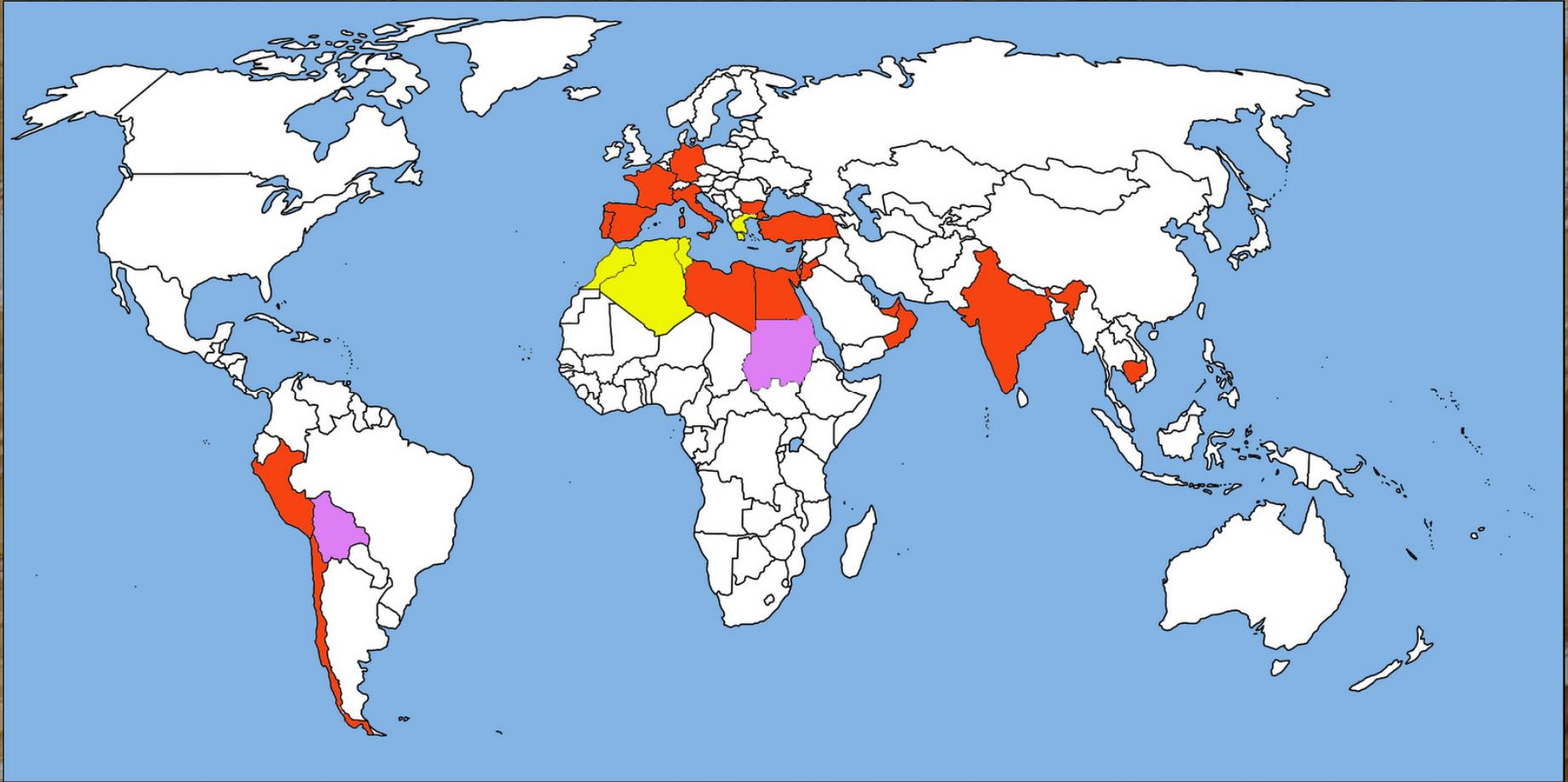
An aerial photograph of the Stonehenge megalithic monument in England. The stones are arranged in their characteristic circular and rectangular patterns on a grassy field. A paved path winds through the landscape, and a small figure of a person is visible on it for scale. The text is overlaid on the image in various colors and fonts.

Archaeoastronomy

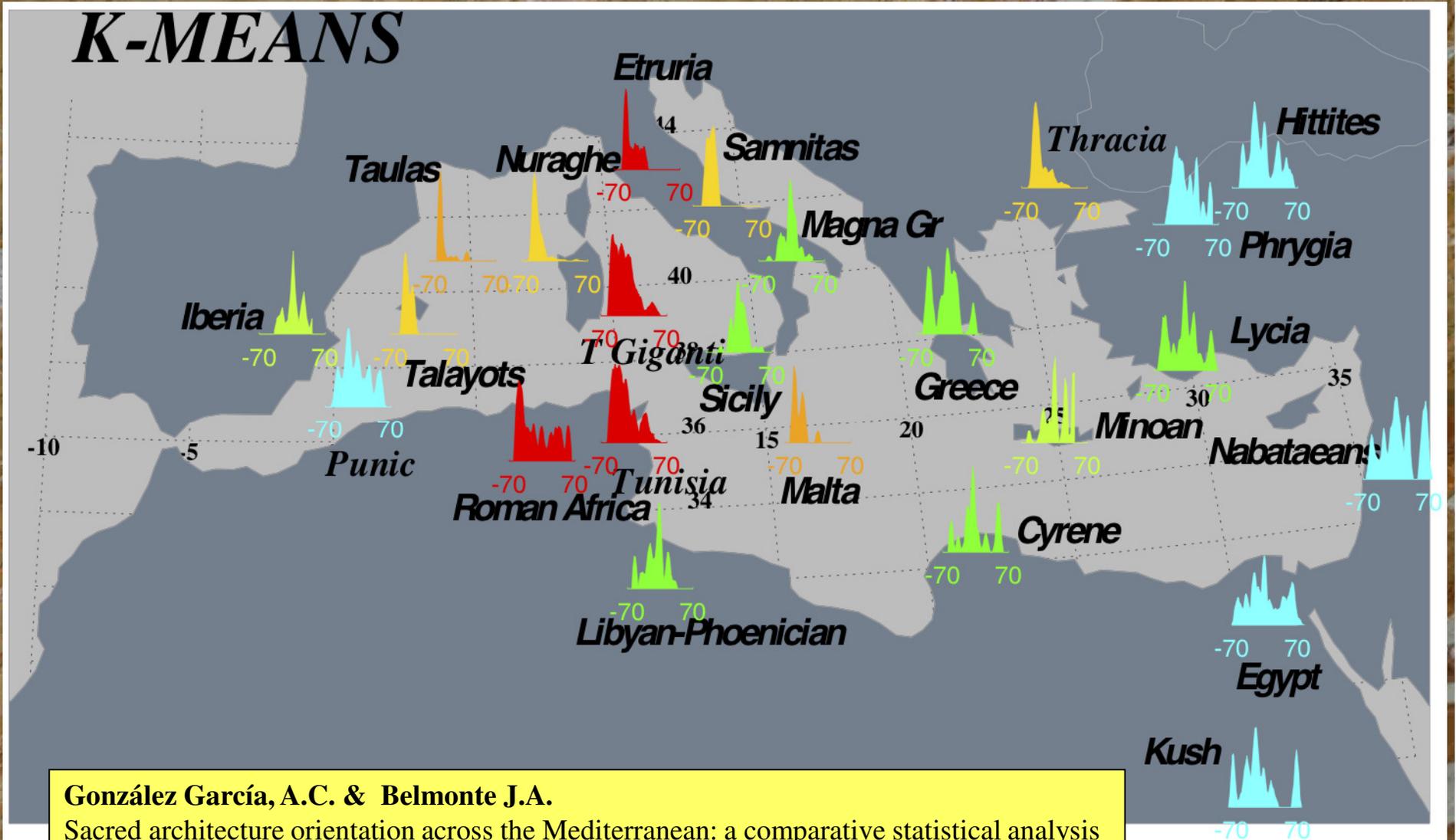
Tools of Physical Sciences

At the Service of Social Sciences

Epistemology of Social Sciences



K-MEANS



González García, A.C. & Belmonte J.A.

Sacred architecture orientation across the Mediterranean: a comparative statistical analysis
Mediterranean Archaeology and Archaeometry 14 (2014), 2, 95-113.

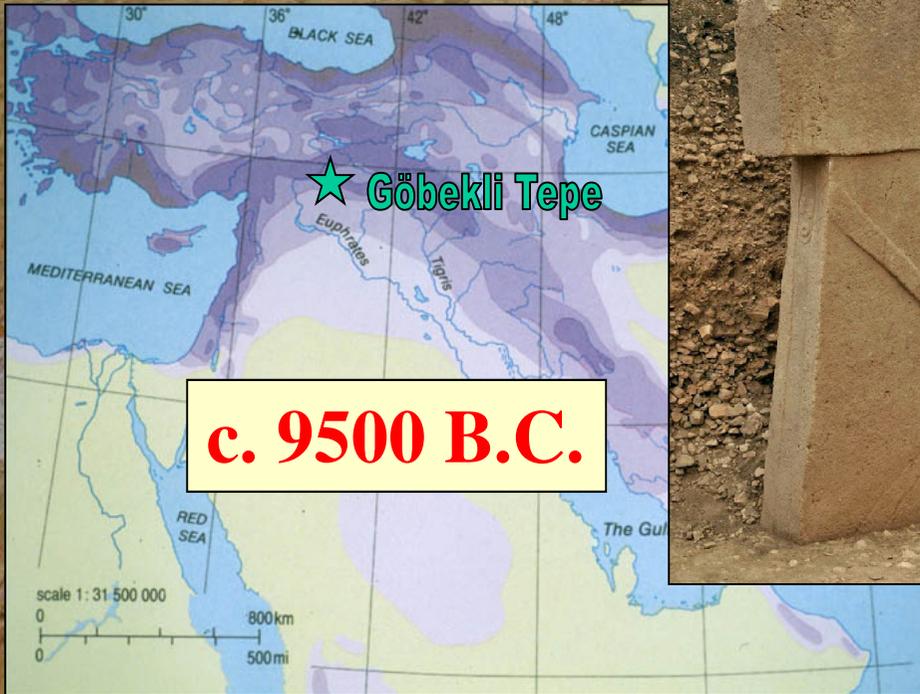


Belmonte J.A. & González García A.C.

Astronomy, landscape and power in Eastern Anatolia

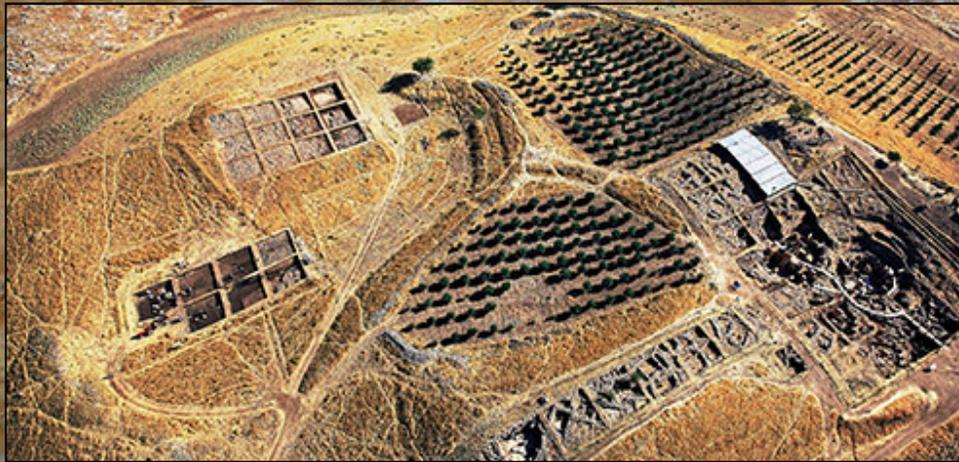
SEAC2010 on Astronomy and Power, How worlds are structured. BAR Int. Ser. (2015)





★ Göbekli Tepe

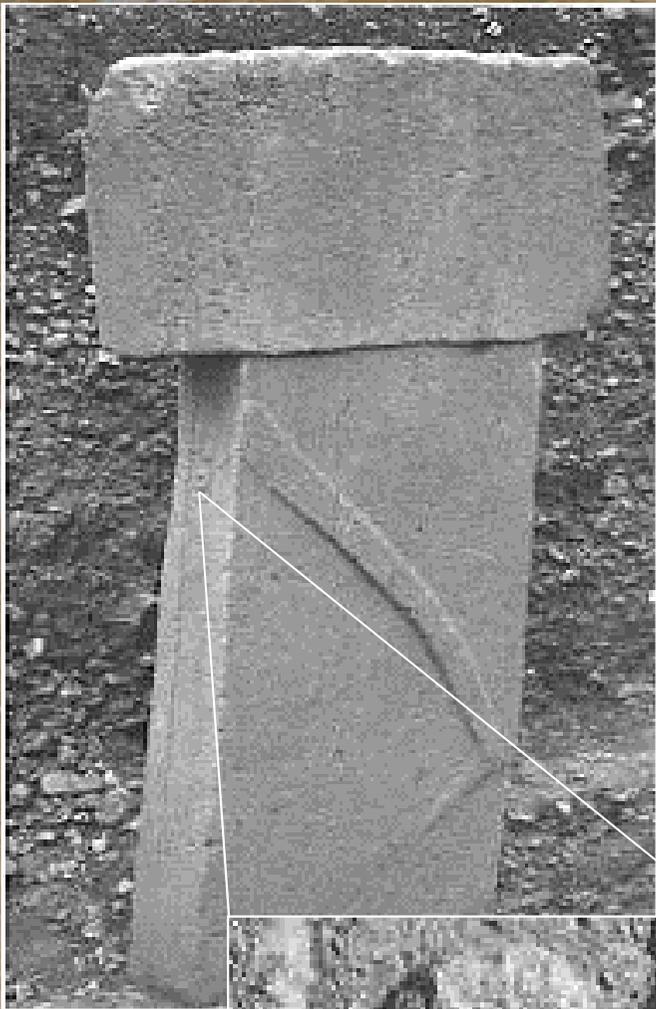
c. 9500 B.C.

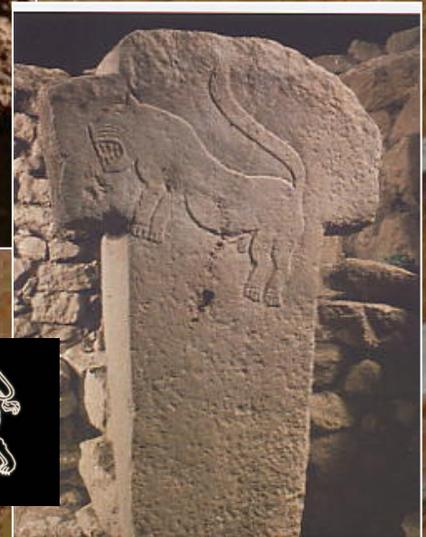


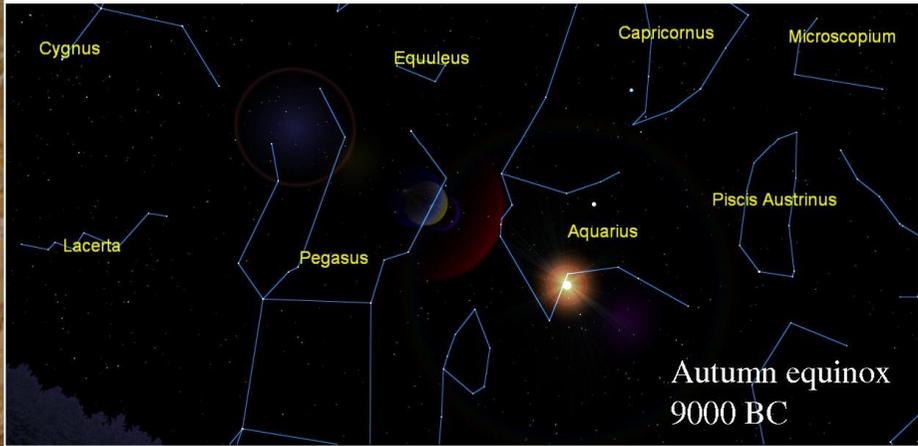
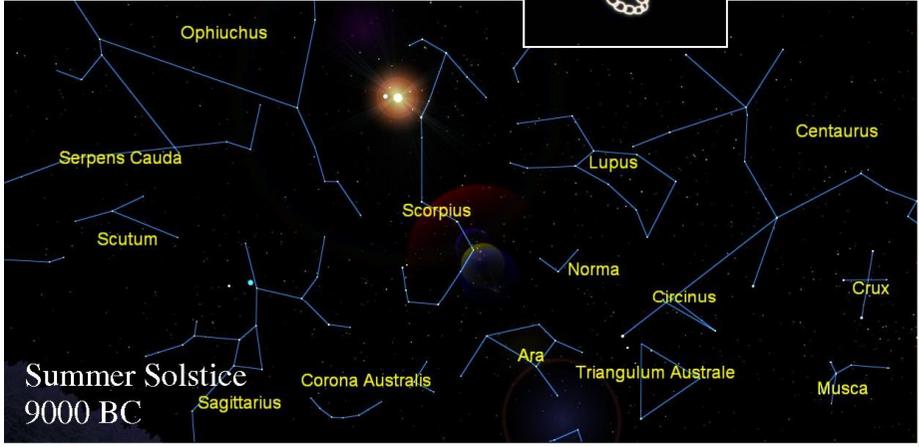
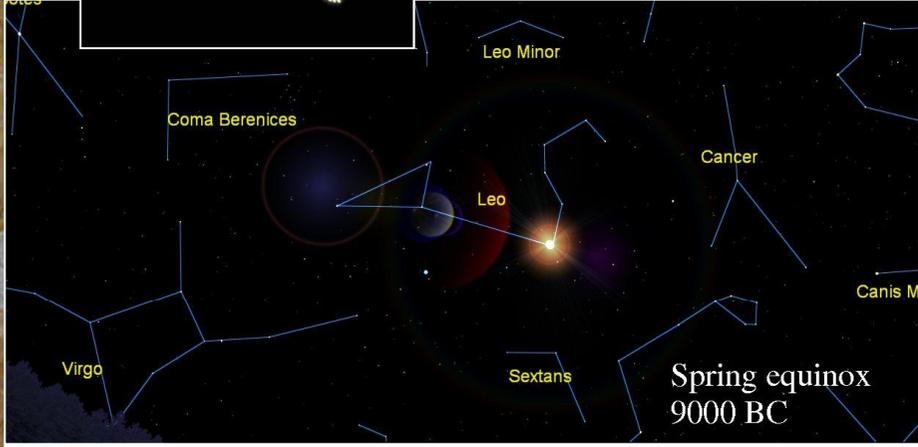
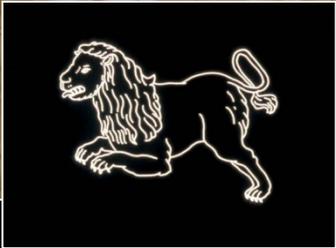
© NGS

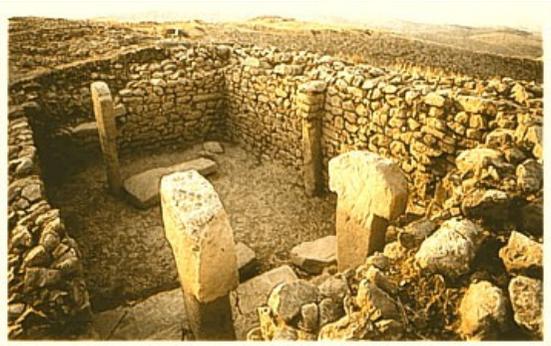


Juan Antonio Belmonte

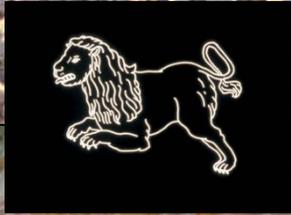








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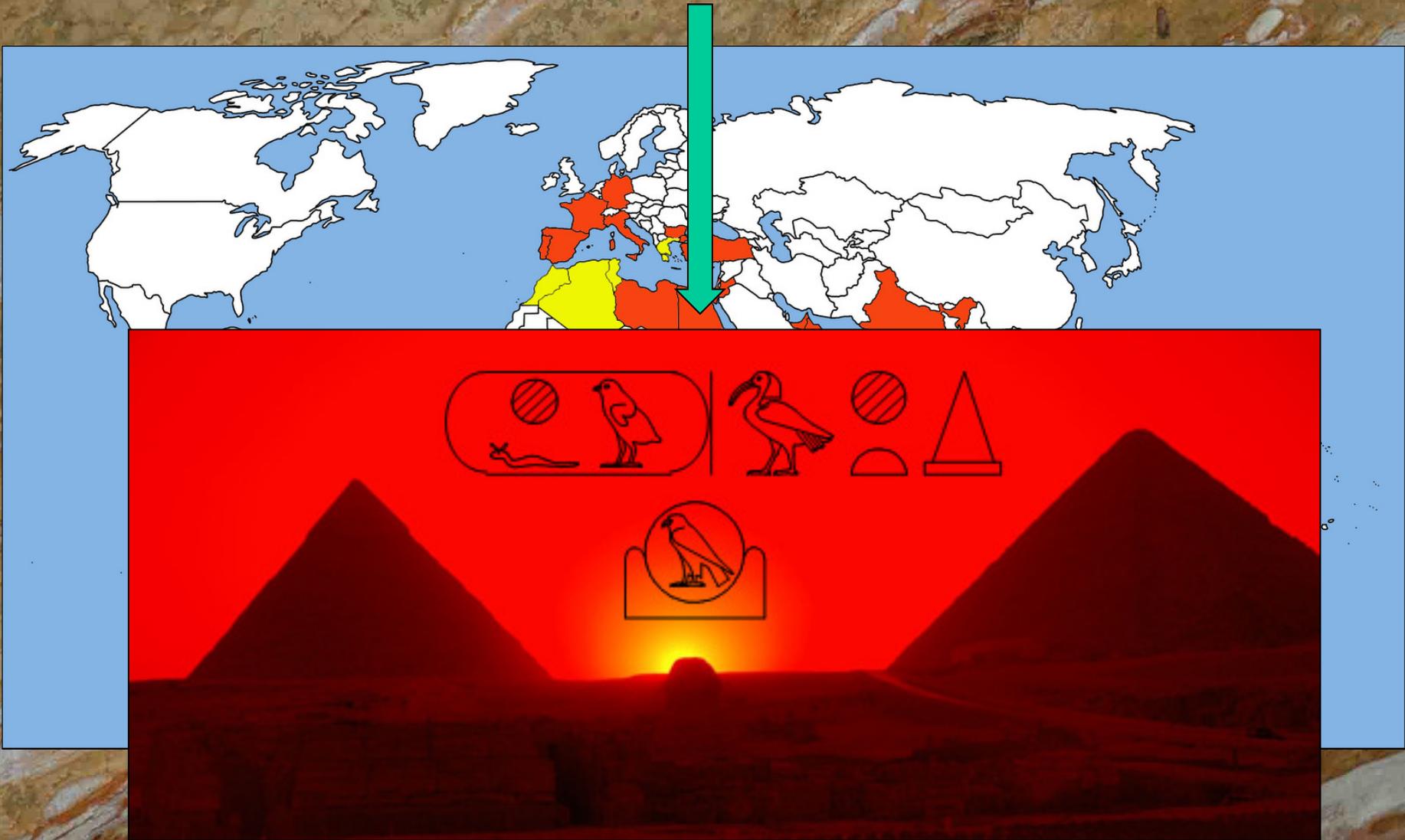
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c. 8500 B.C:

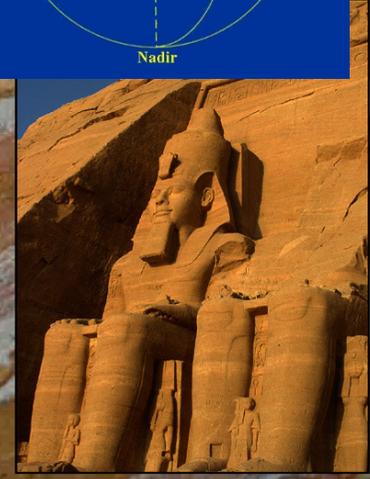
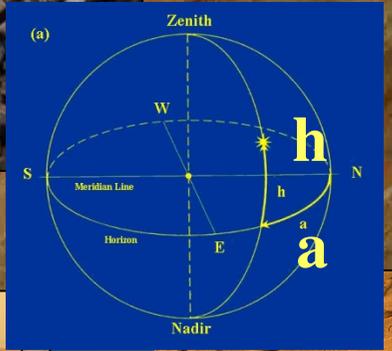


Belmonte J.A. & Shaltout M.

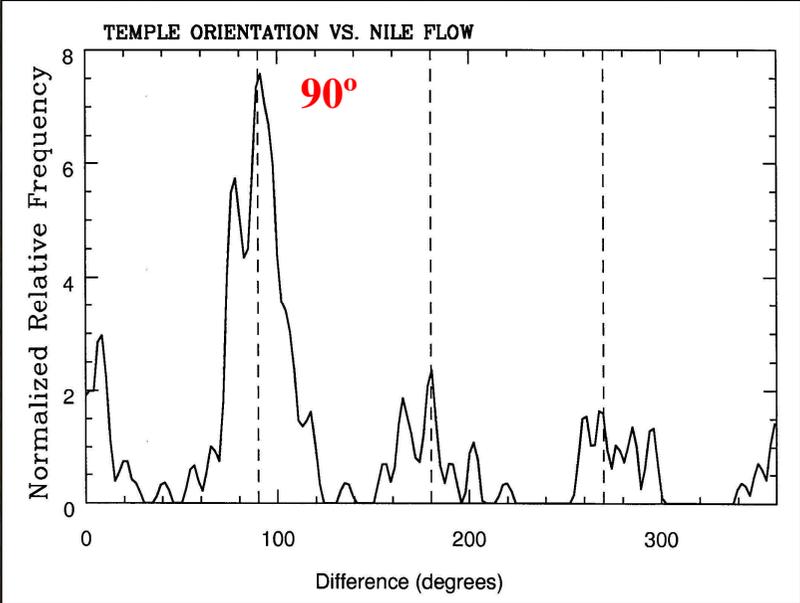
In Search of Cosmic Order selected essays on Egyptian Archaeoastronomy
Supreme Council of Antiquities Press (Cairo, 2009)

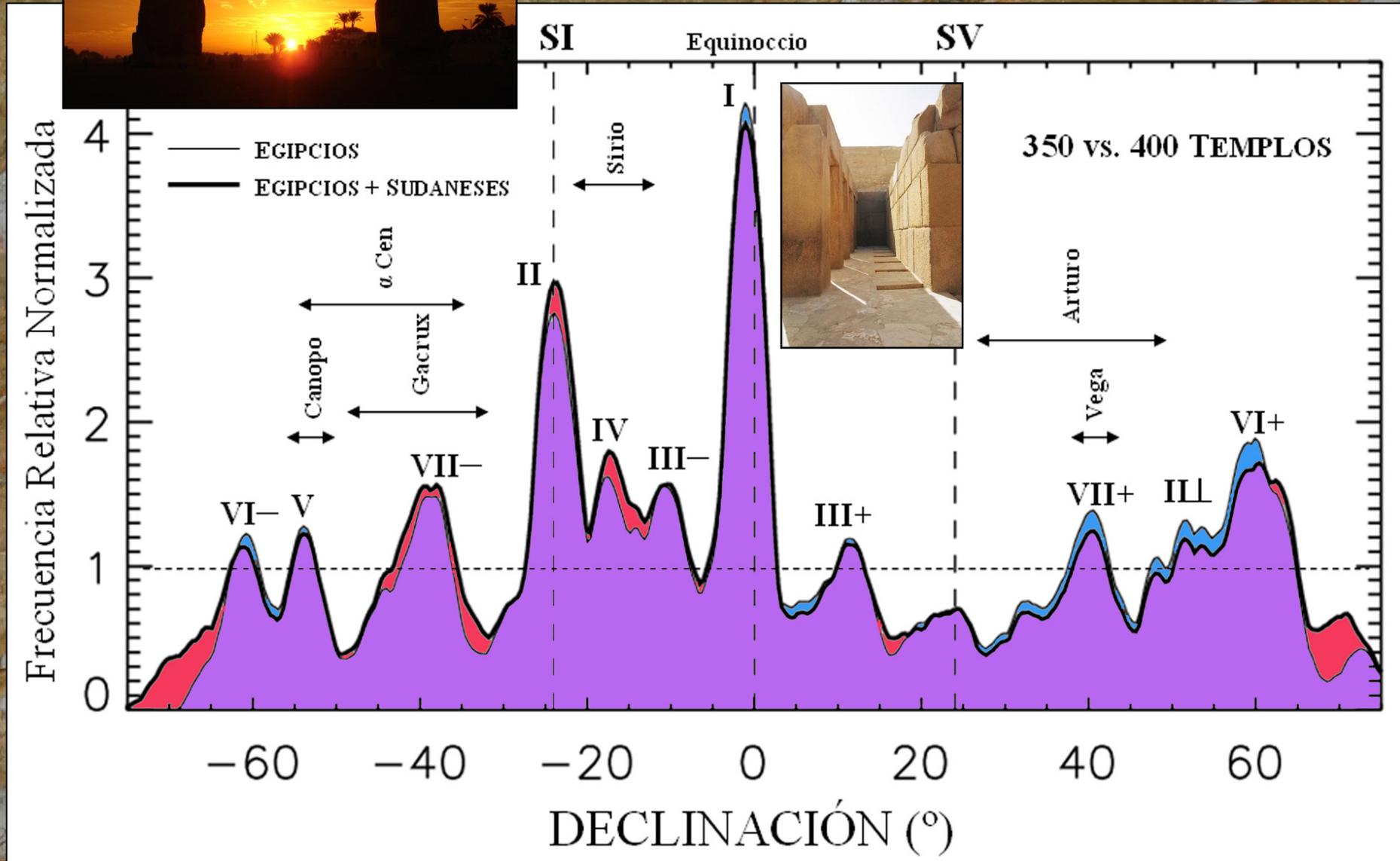


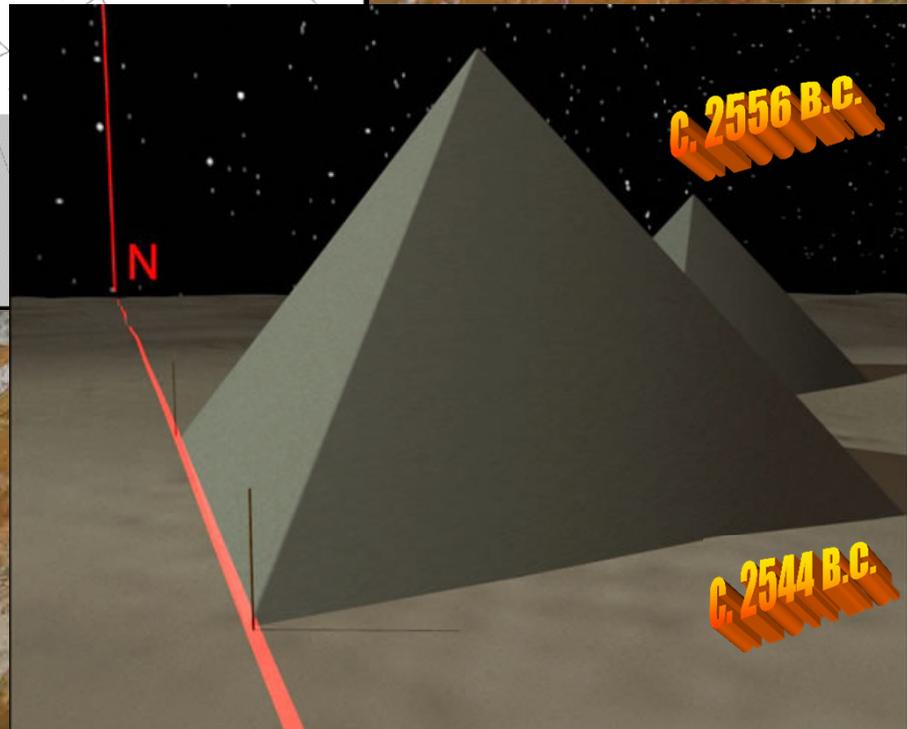
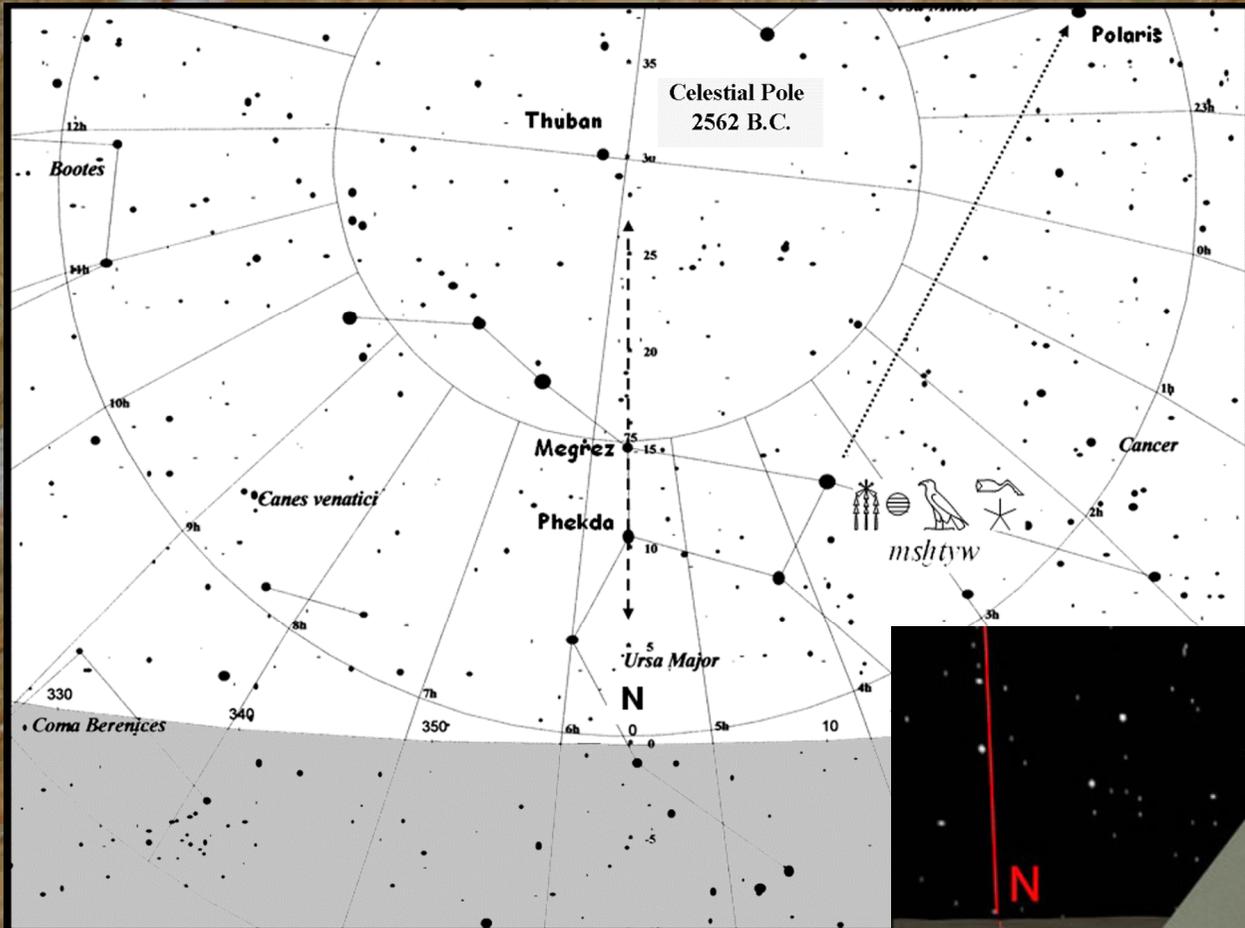
Landscape Archaeology & Temple orientation

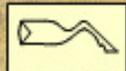


Null Hypothesis









Summer Solstice
Sunset

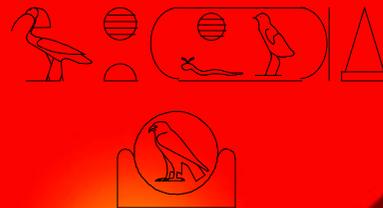


March 21 2005

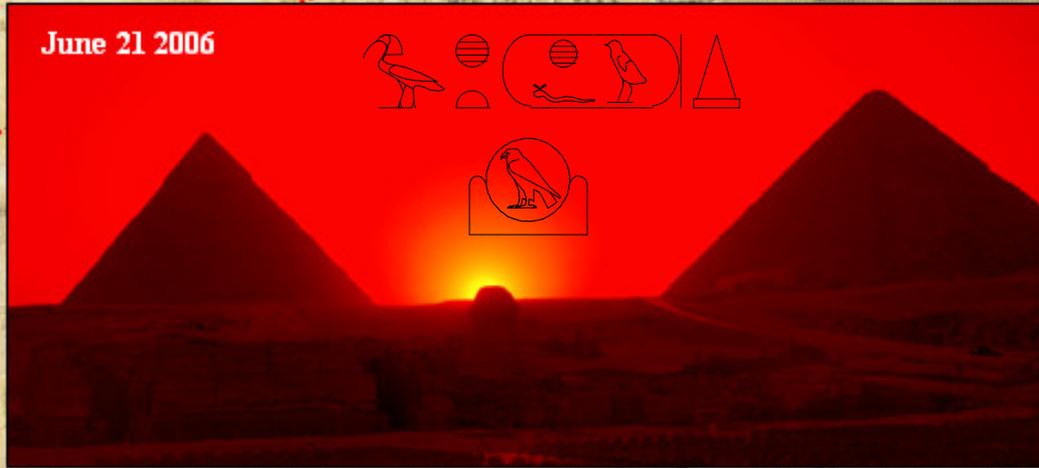
"Equinoctial"
Sunrise

Heliopolis

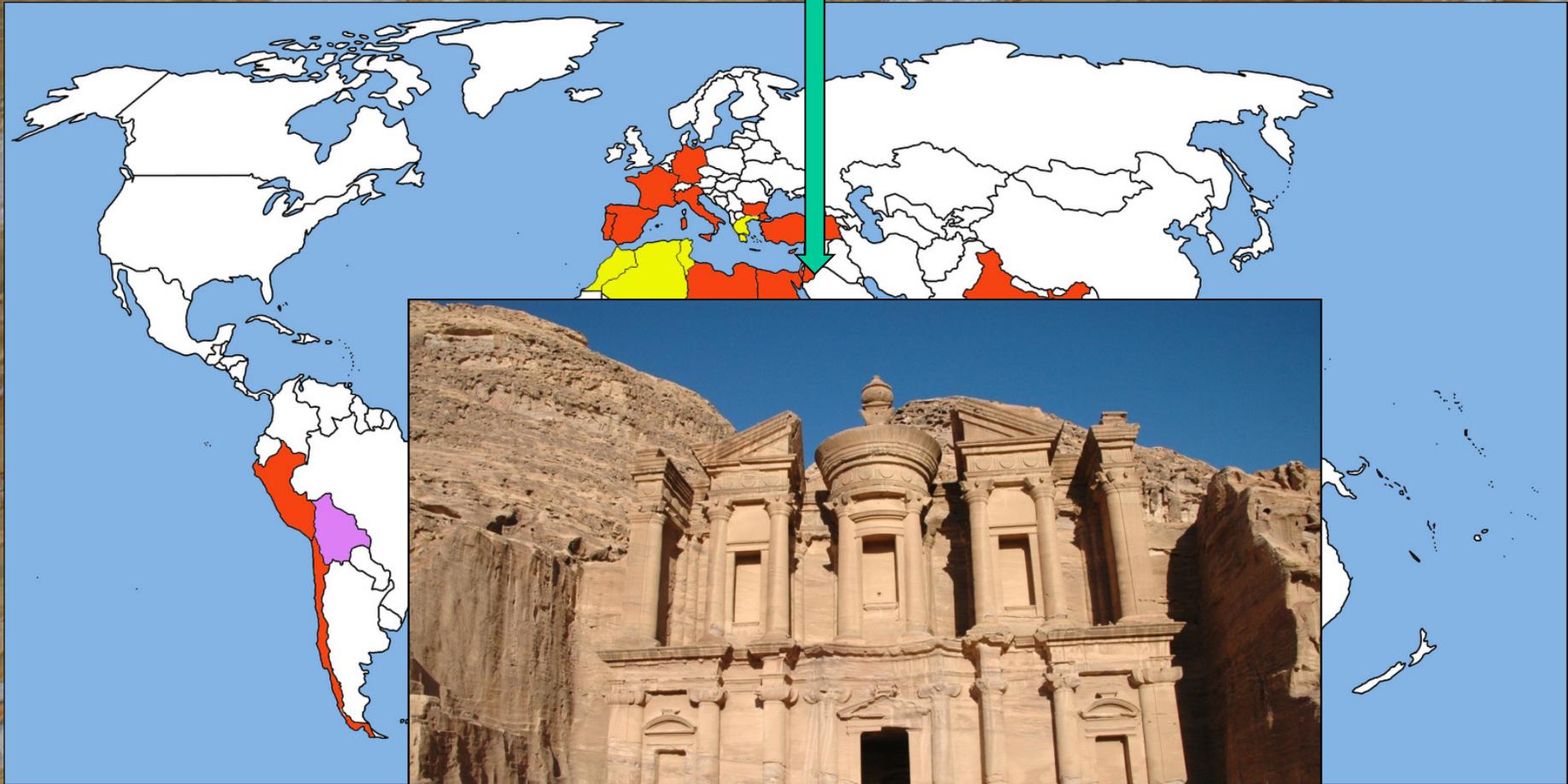
June 21 2006

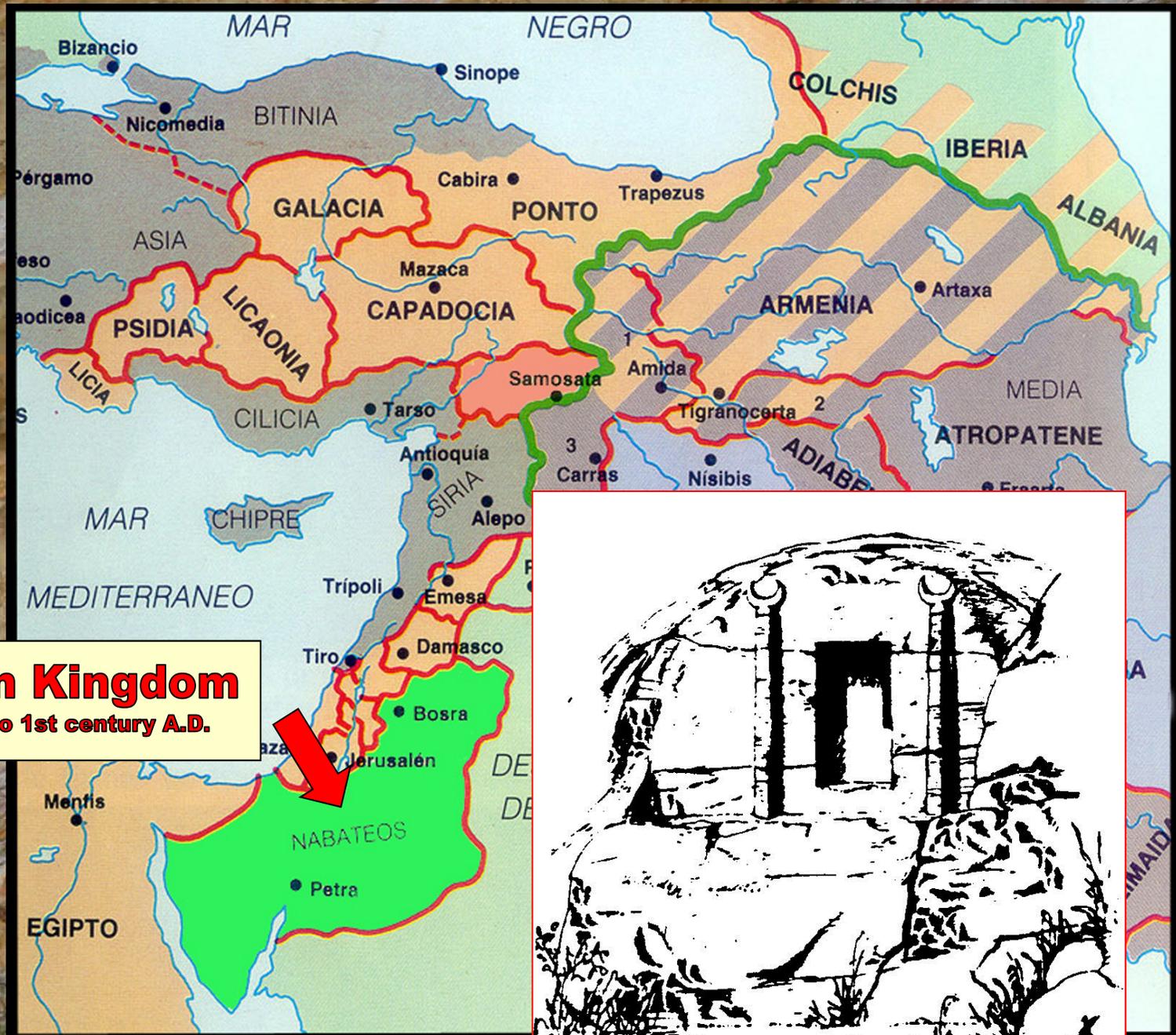


C. 2550 B.C.



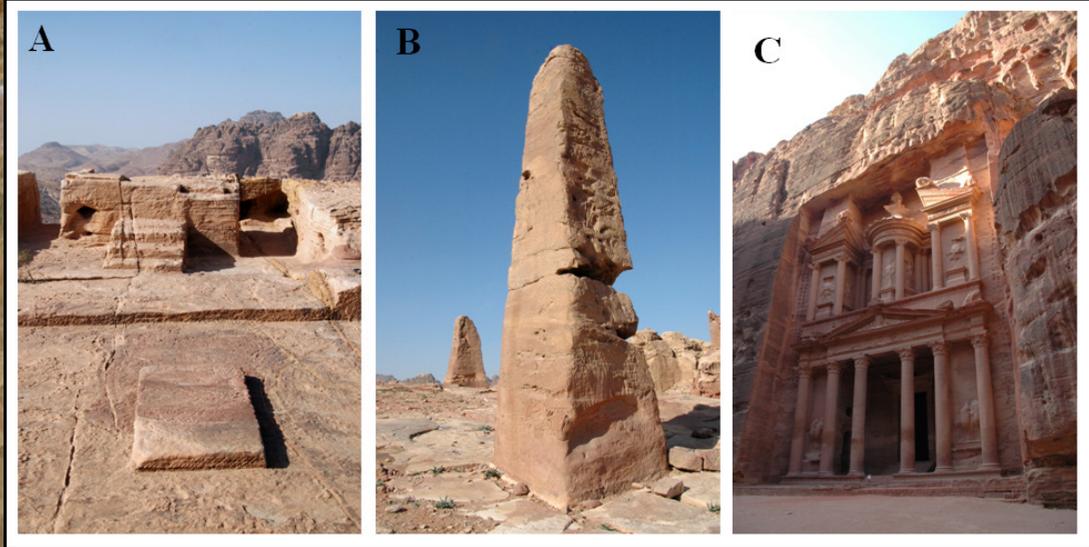
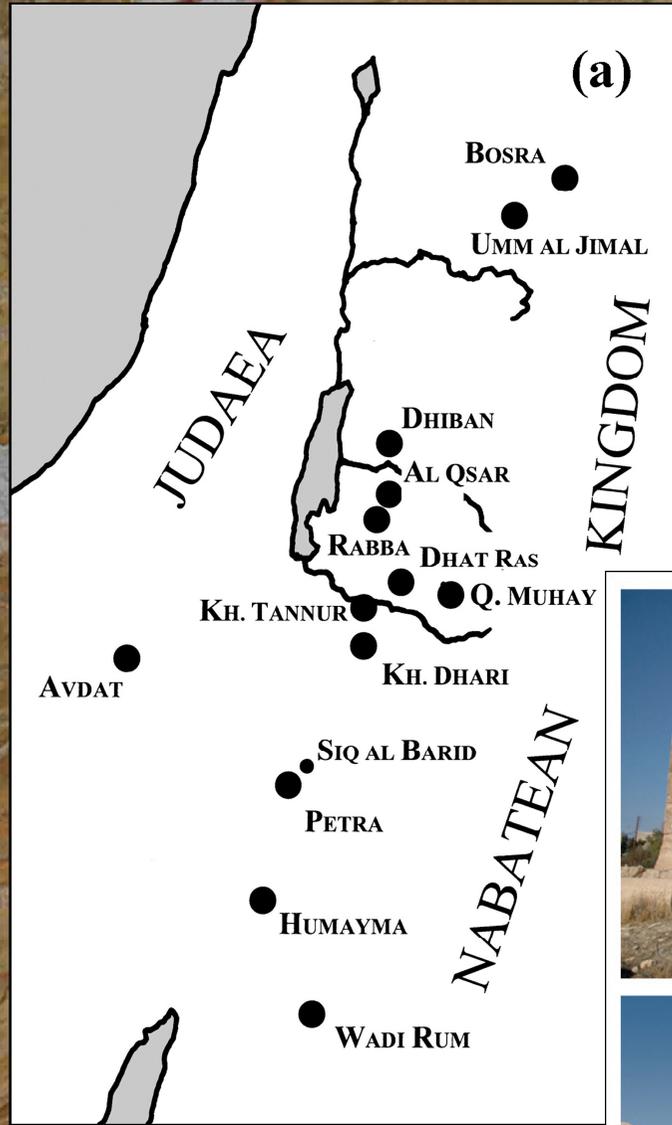
Belmonte J.A.; González García, A.C. & Polcaro A.
Unveiling Petra: astronomy and landscape in the Nabataean lands
Nexus Network Journal 15 (2013), 487-502.



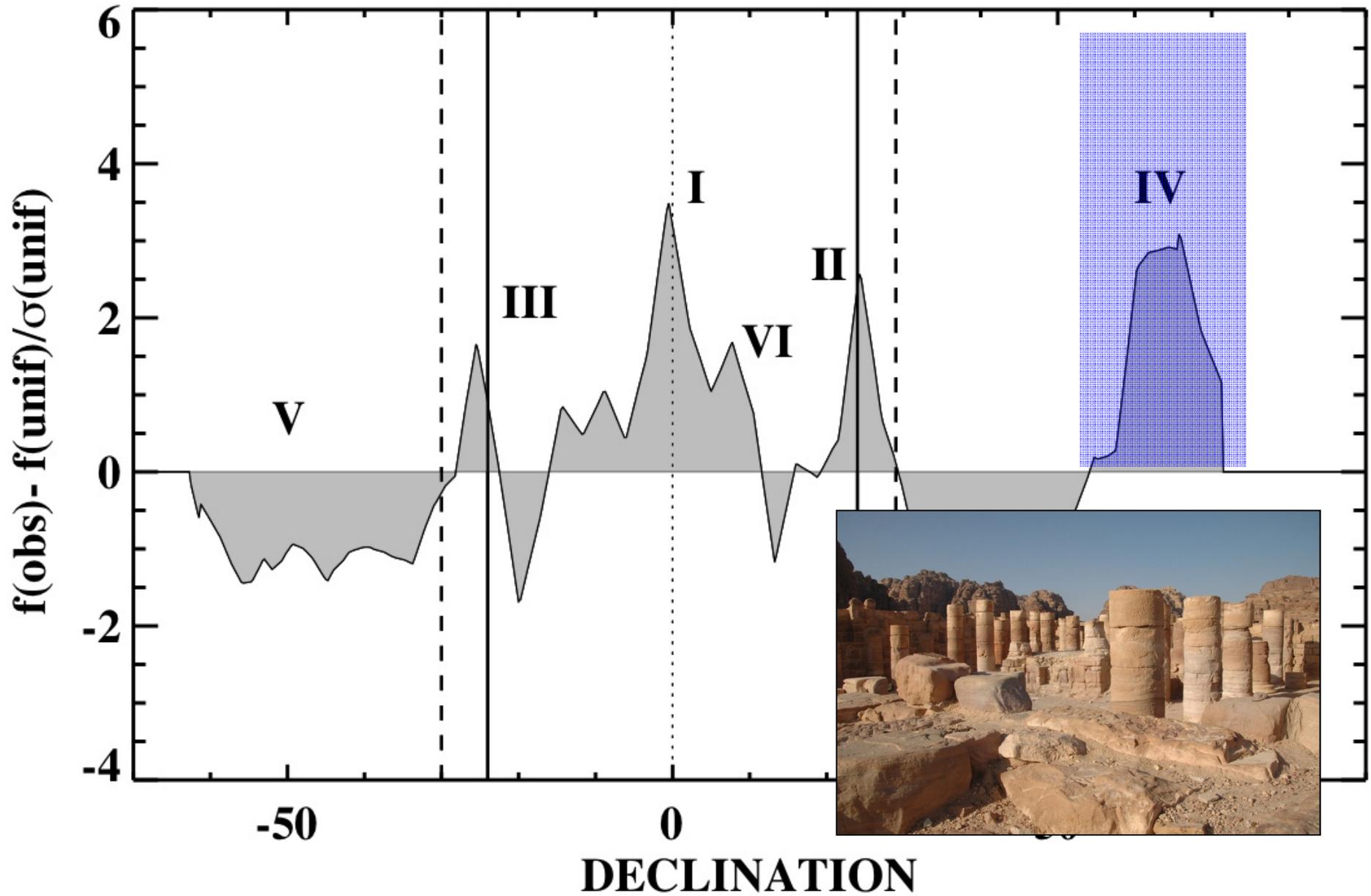


Nabataean Kingdom
1st century B.C. to 1st century A.D.

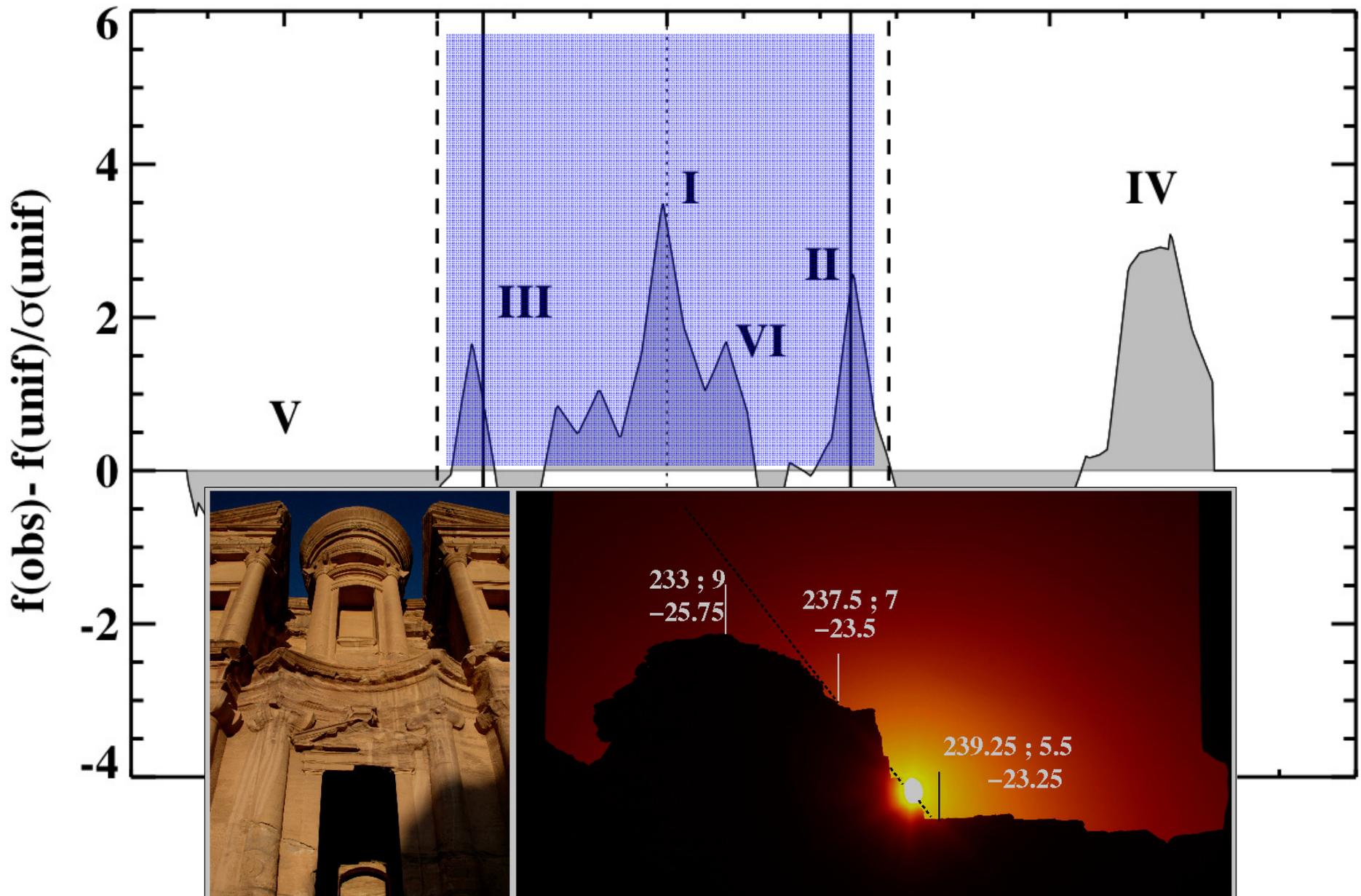


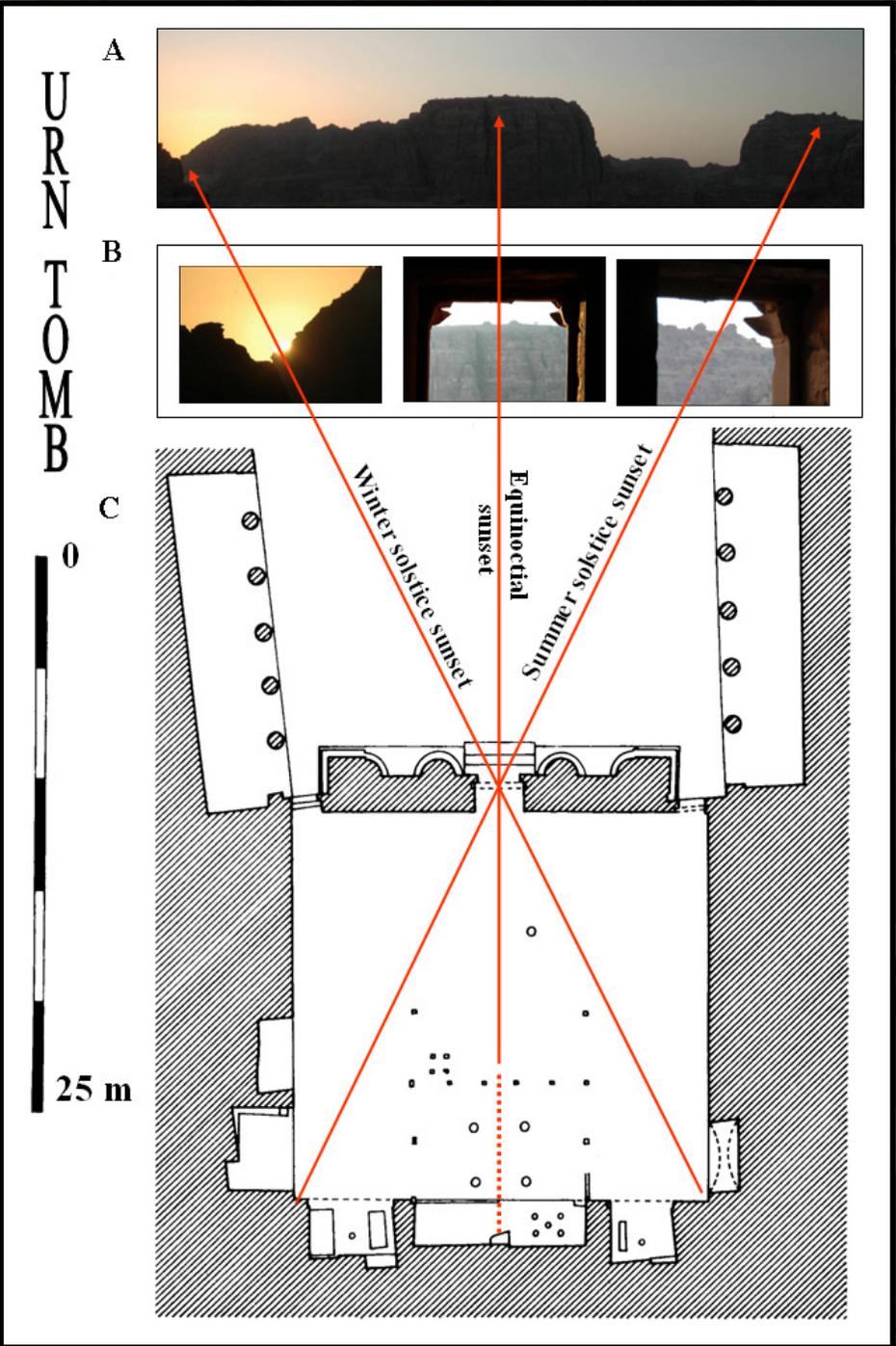
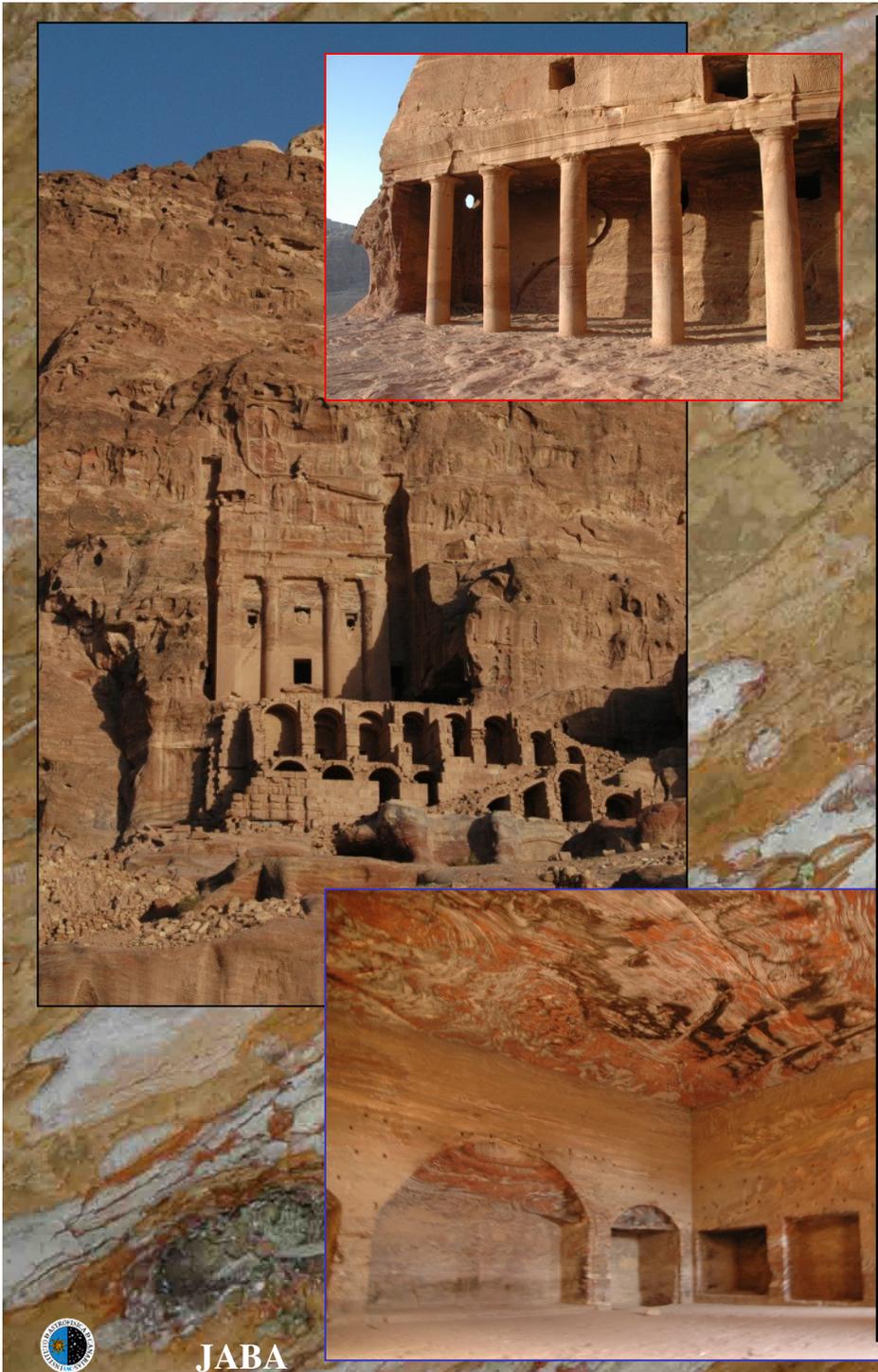


NABATAEAN MONUMENTS



NABATAEAN MONUMENTS

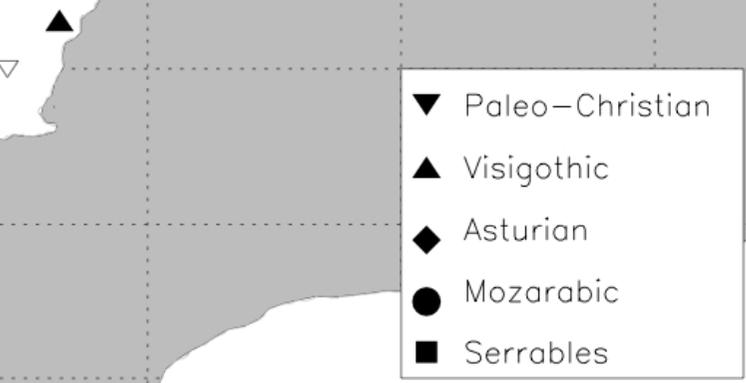
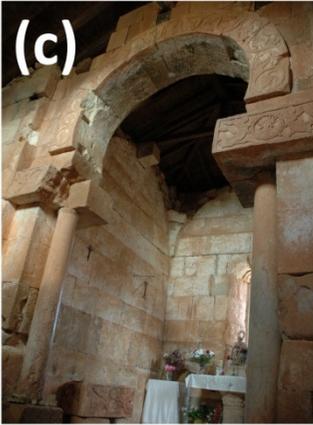
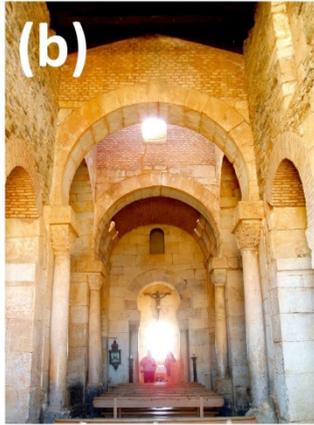
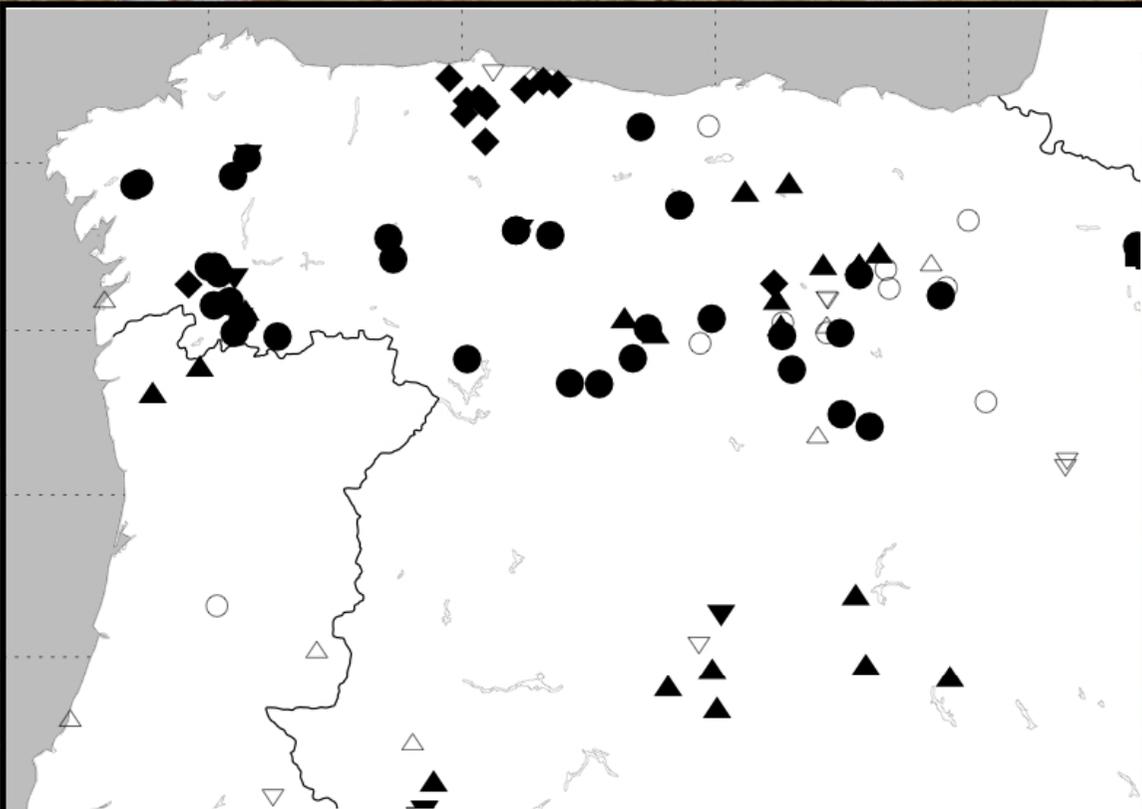




González García, A.C. & Belmonte, J.A.

The orientation of pre-Romanesque churches in the Iberian Peninsula
Nexus Network Journal 17 (2015), e-printed.



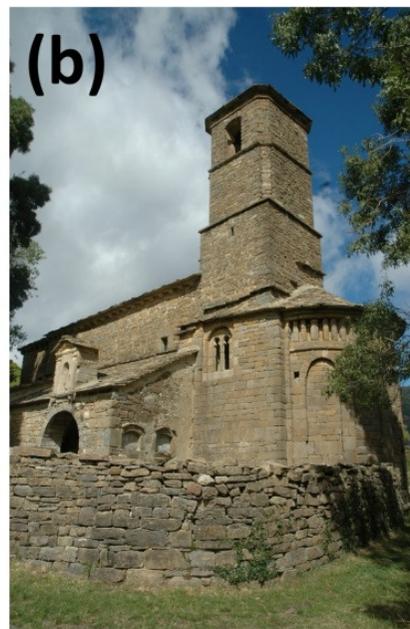




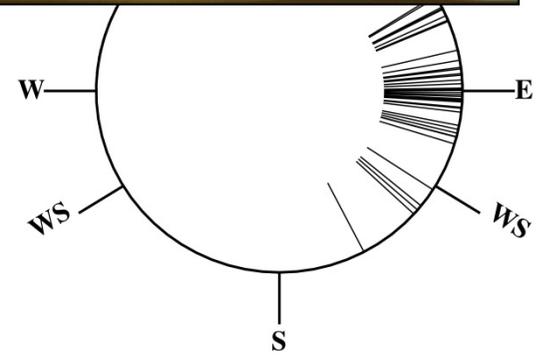
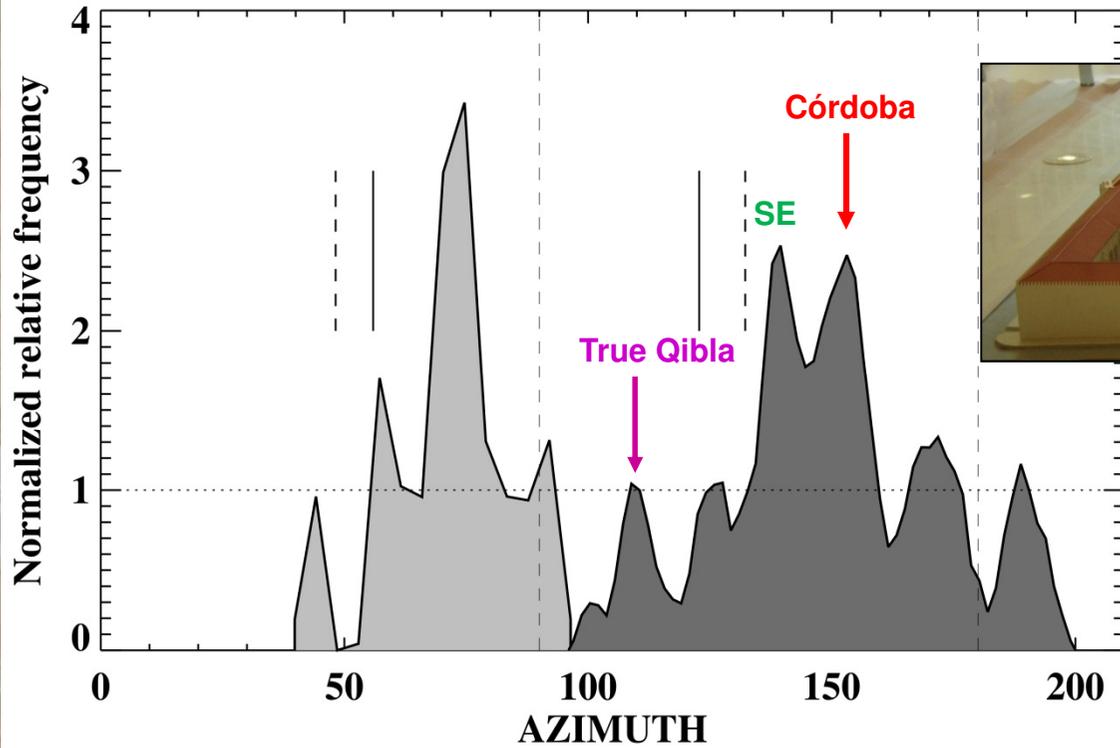
(a)



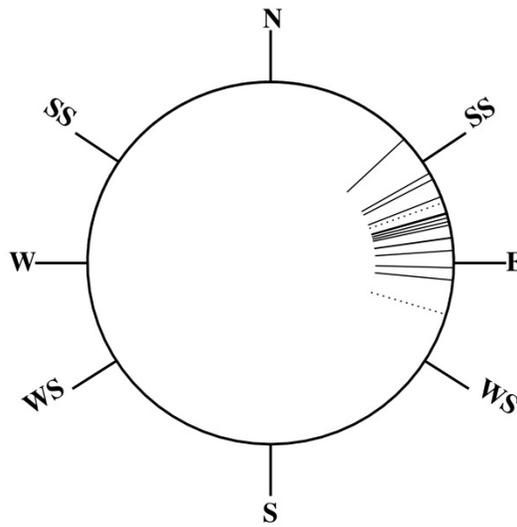
(b)



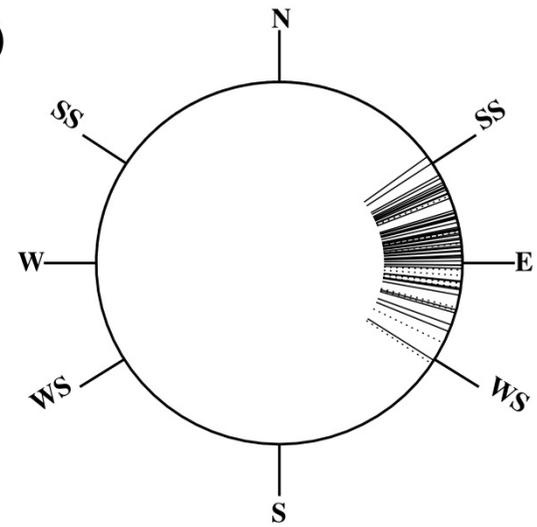
- ▼ Paleo-Christian
- ▲ Visigothic
- ◆ Asturian
- Mozarabic
- Serrables

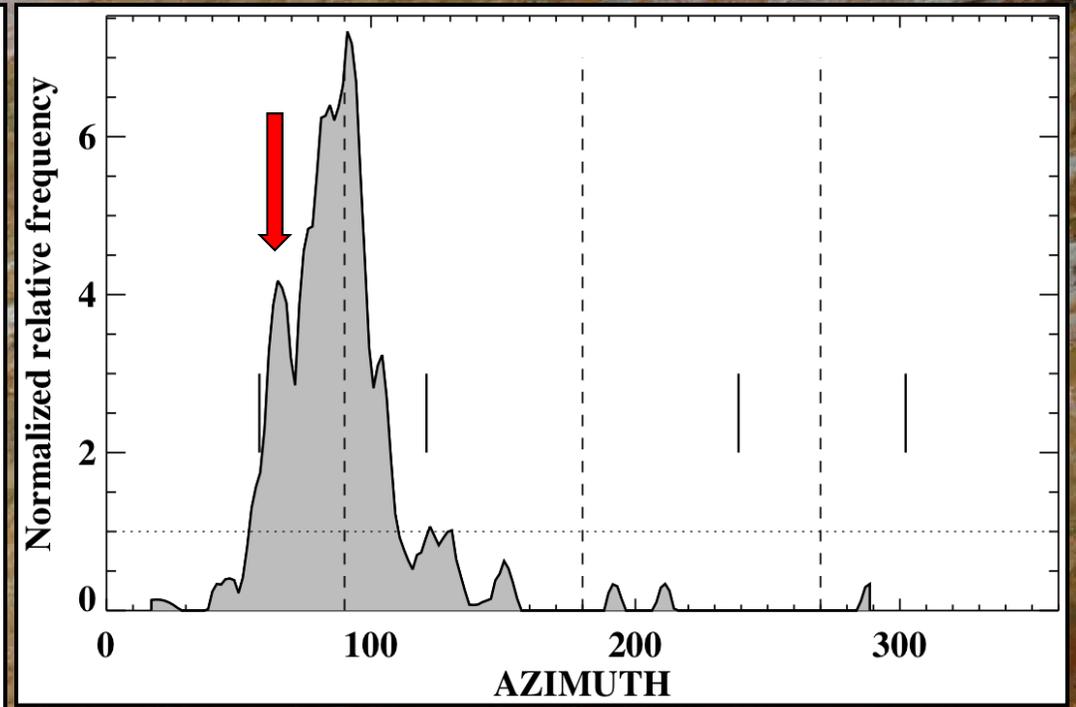
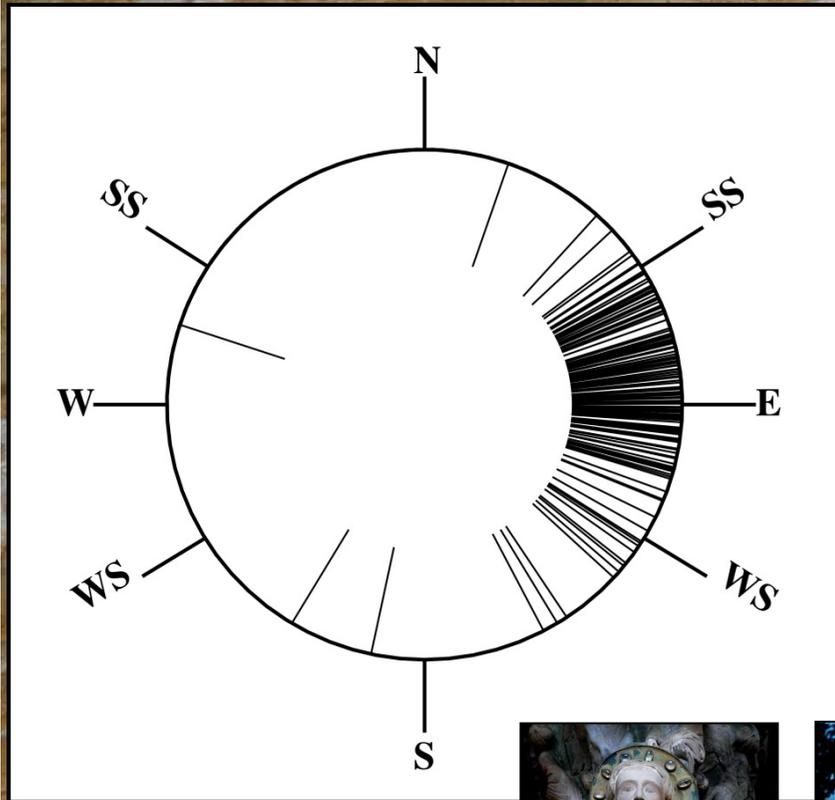


(c)



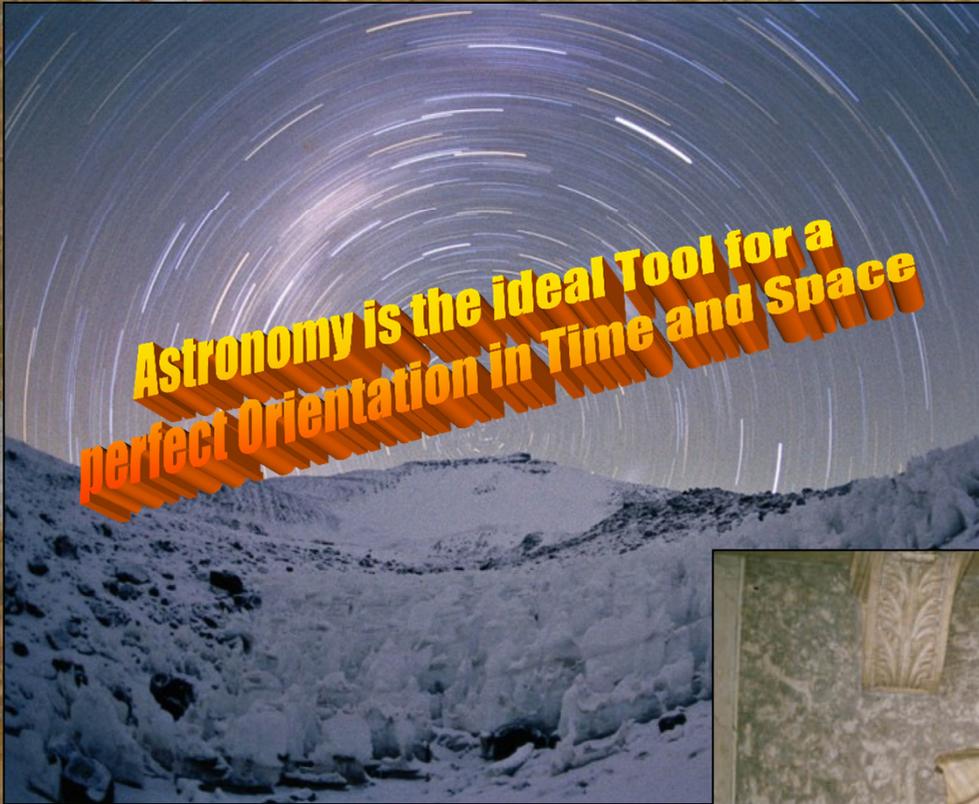
(d)



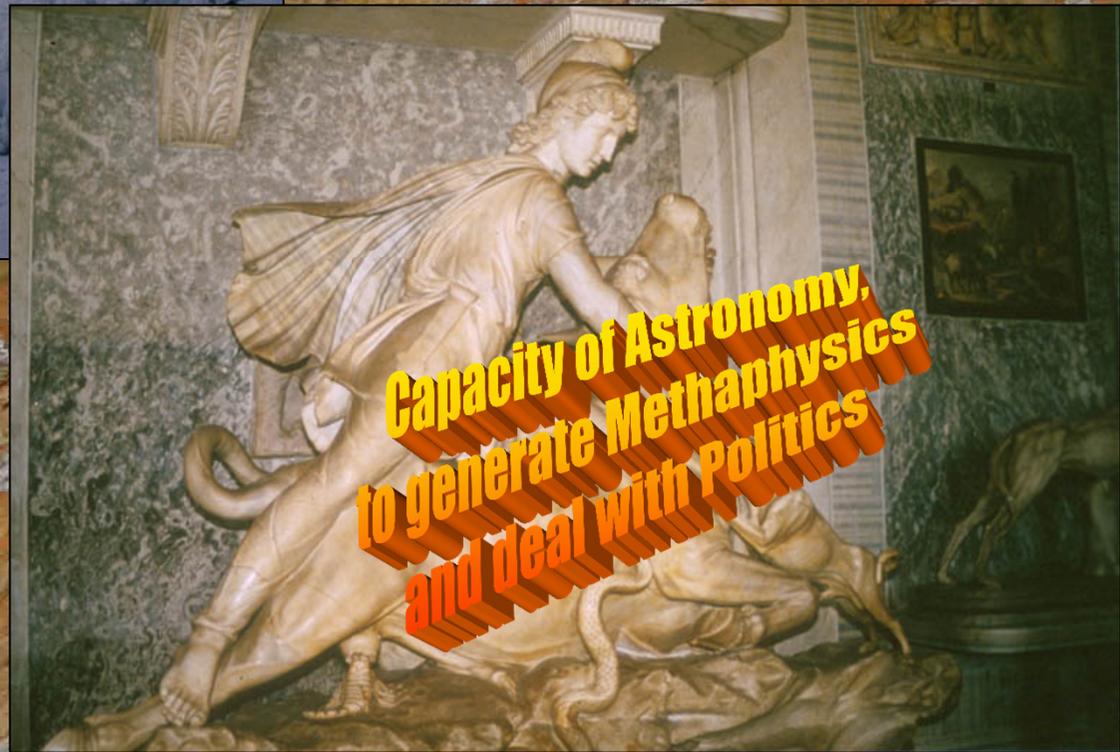


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perfect Orientation in Time and Space**



**Capacity of Astronomy,
to generate Methaphysics
and deal with Politics**





