AST 2134: ObLab 2 Jan 28, 2015

- Homework #2 review
- A quick word on Geocentric (standard) celestial sphere
- Hour angle and declination – a problem with constantness
- The definition of right ascension
- The geometric representation of sidereal time
  - what happens at the meridian?
  - what happens when γ is at the meridian?
  - what happens when γ next crosses the meridian?
- The ecliptic – w.r.t. Sun, w.r.t. Earth
- Vernal (spring) equinox, automnal equinox, summer and winter solstices
- So where is this γ thingie anyhow?
- Right ascension and declination of the Sun are always changing!
  - what happens when the Sun is at a vernal equinox?
  - what happens when the Sun is at any of the other extrema?
- Ecliptic (celestial) latitude and longitude (leave some space for the transformations!)
- Back to talking about sidereal time
- Did someone say *time*? Bring in the civil time!
  - apparent noon and apparent solar day
  - apparent solar day is *not* constant! Annalema.
  - mean solar day
  - local mean noon, Greenwich mean noon, local mean midnight, Greenwich mean midnight
- Equation of time