

AST1.3 Equatorial system

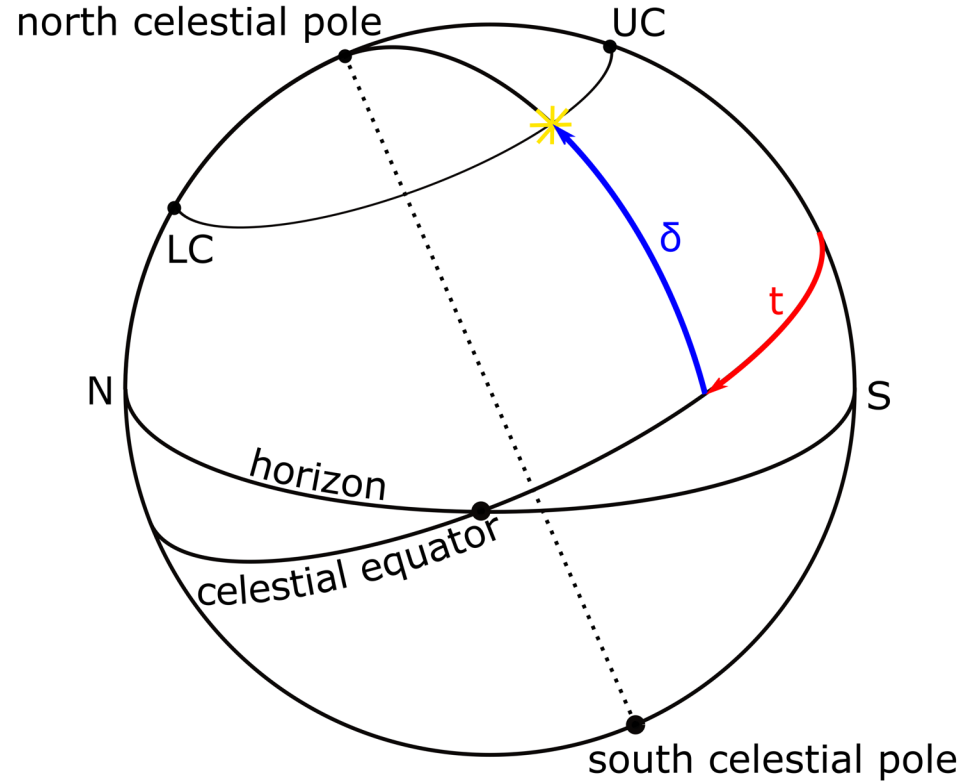
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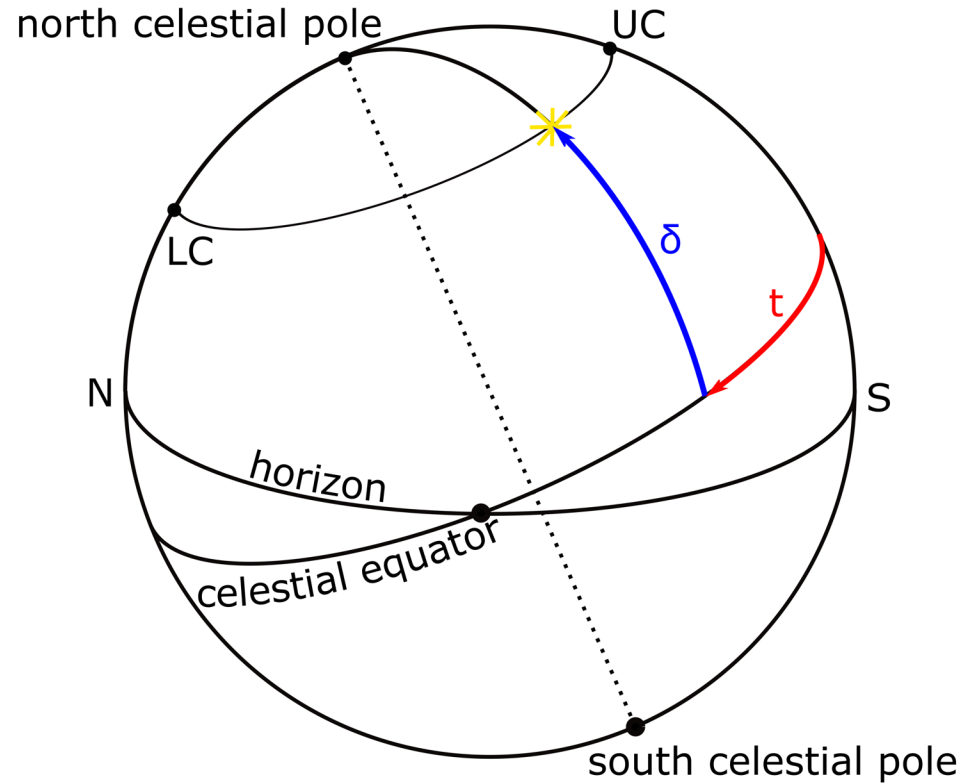
Equatorial coordinate system(s)

- base circle: celestial equator
 - declination δ
 - two possibilities to define the second coordinate
 1. Fixed equatorial system
 - hour angle t – counted in time
 - (hours h , minutes m , seconds s)
- $24h = 360^\circ$, $1h = 15^\circ$, $1m = 15'$, $1s = 15''$



Equatorial coordinate system(s)

- UC ... upper culmination point
 $t = 0^h = 24^h$
- LC ... lower culmination point
 $t = 12^h$
- dependency on time and place

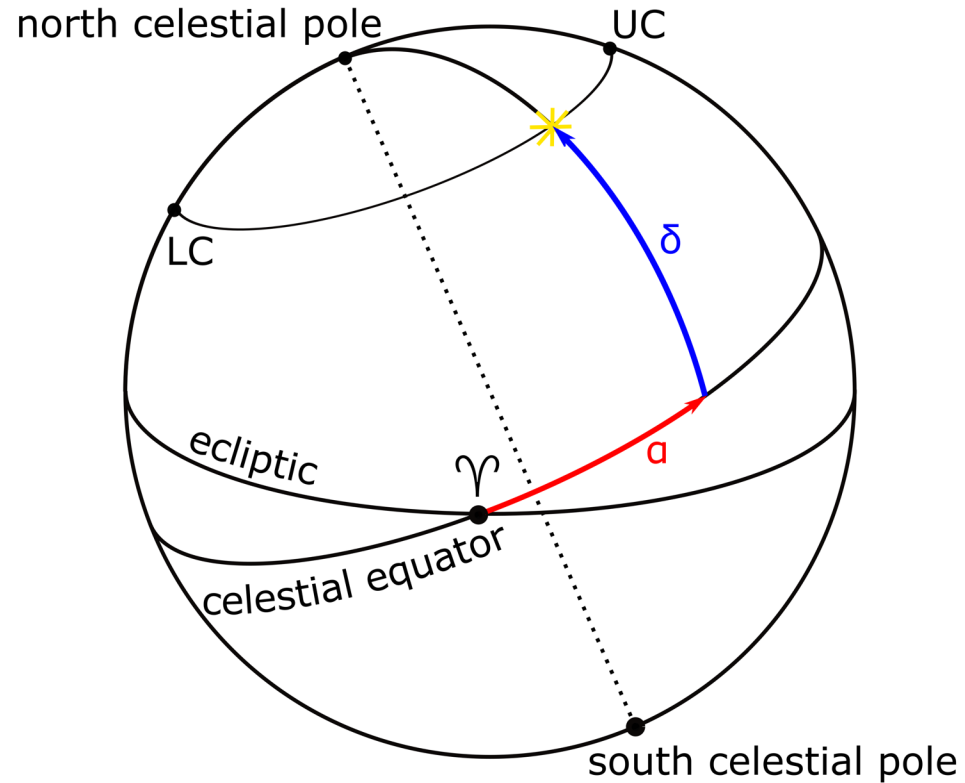


Equatorial coordinate system(s)

2. Moving equatorial system

right ascension α

- counted from the vernal equinox or Aries point (γ)
- measured in h, m and s
- declination δ and right ascension α used in star catalogues



Credits



Author

- Rita Gautschy, University of Basel (2022)

Concept SEACTeach

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Design

- Front and banner image: Gaia's Milky Way, © ESA, Gaia, DPAC
- Presentation template based on Isabella by SlidesCarnival