

# AST1.1 Coordinate systems

Rita Gautschy, University of Basel

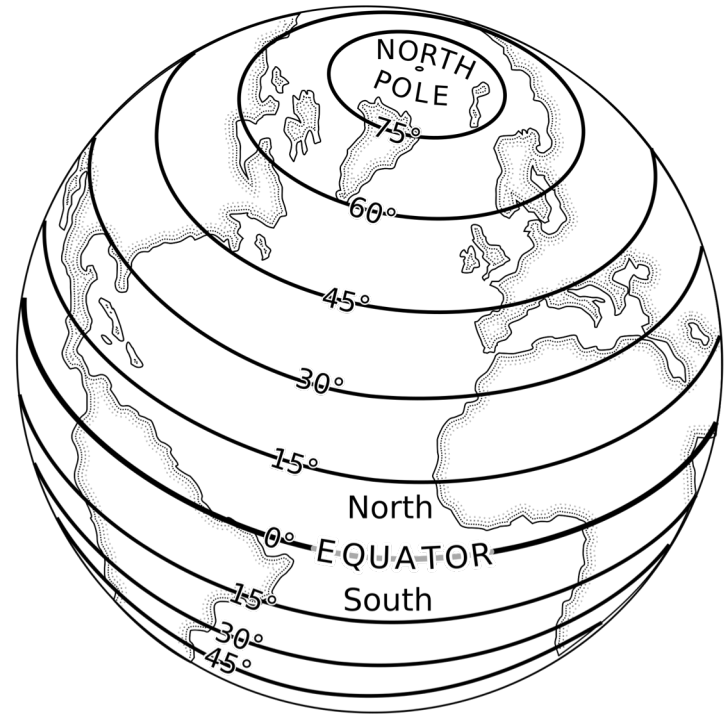
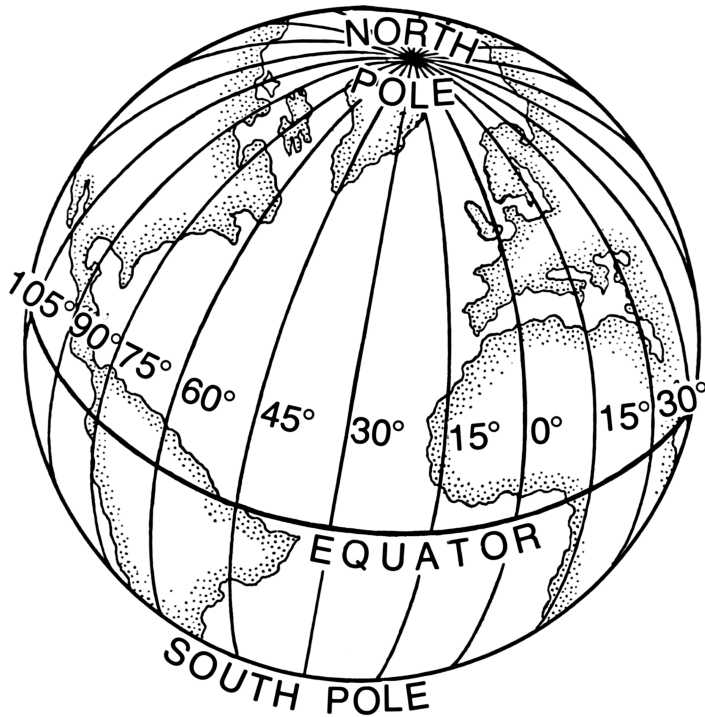


**DaSCH**  
Swiss National Data and  
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Rita Gautschy

# Geographical coordinates



## Geographical coordinates

- indicated in degrees, minutes and seconds
- latitude  $\phi$  or lat
- longitude  $\lambda$  or long
  
- Prime meridian at Flamsteed House of the Royal Greenwich Observatory



# Astronomical coordinate systems



- analogous to geographical coordinates on Earth
- position of celestial object is described by two coordinates
- different coordinate origins possible: Earth, Sun, any other celestial body
- Basic principle:
  1. Selection of a reference / base plane that intersects the celestial circle
  2. Great circle perpendicular to base plane by celestial body

# Credits



## Author

- Rita Gautschy, University of Basel (2022)

## Concept SEACTeach

- Rita Gautschy, Stanisław Iwaniszewski, Alejandro Martín López, Frank Prendergast (2021)

## Design

- Front and banner image: Gaia's Milky Way, © ESA, Gaia, DPAC
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