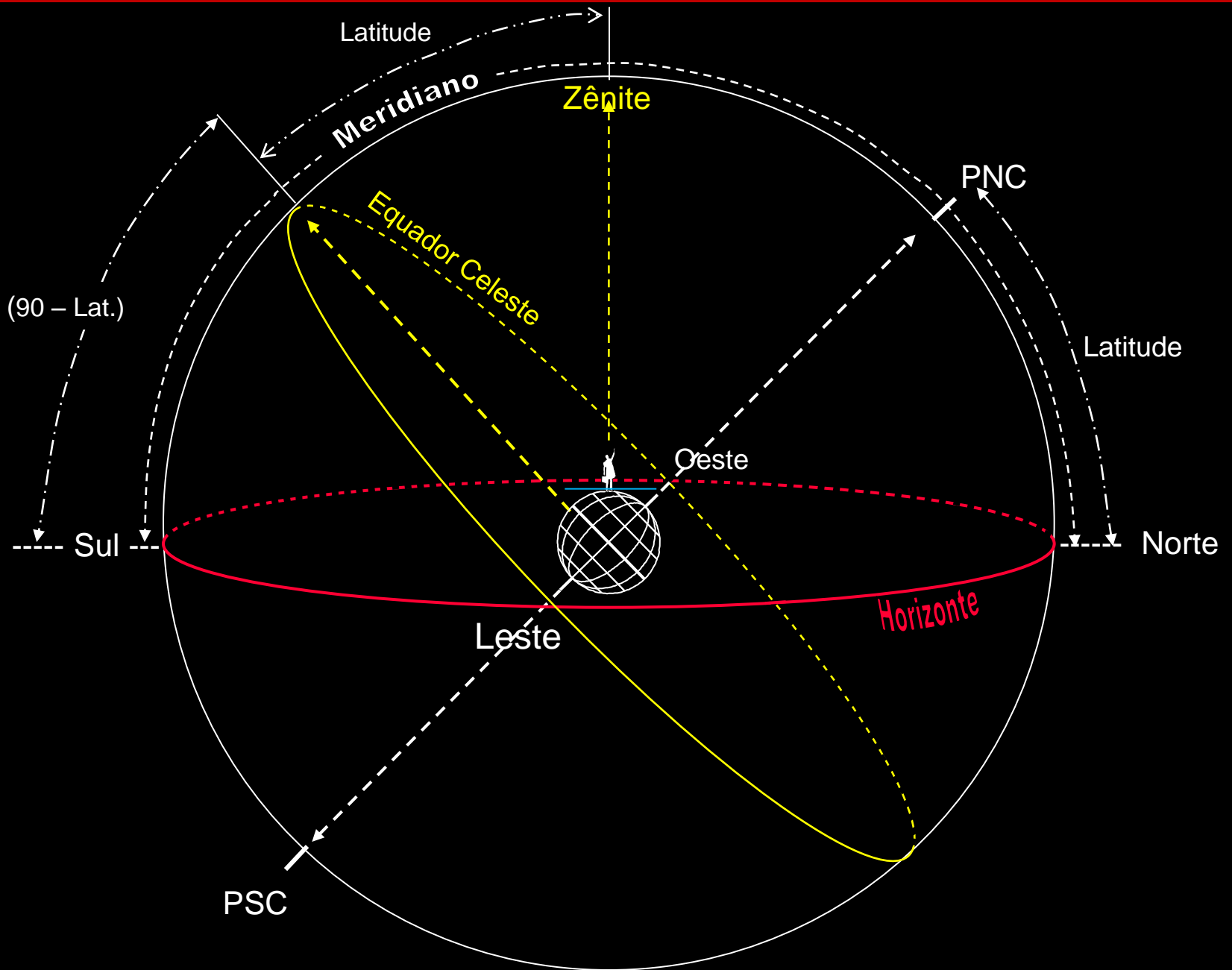
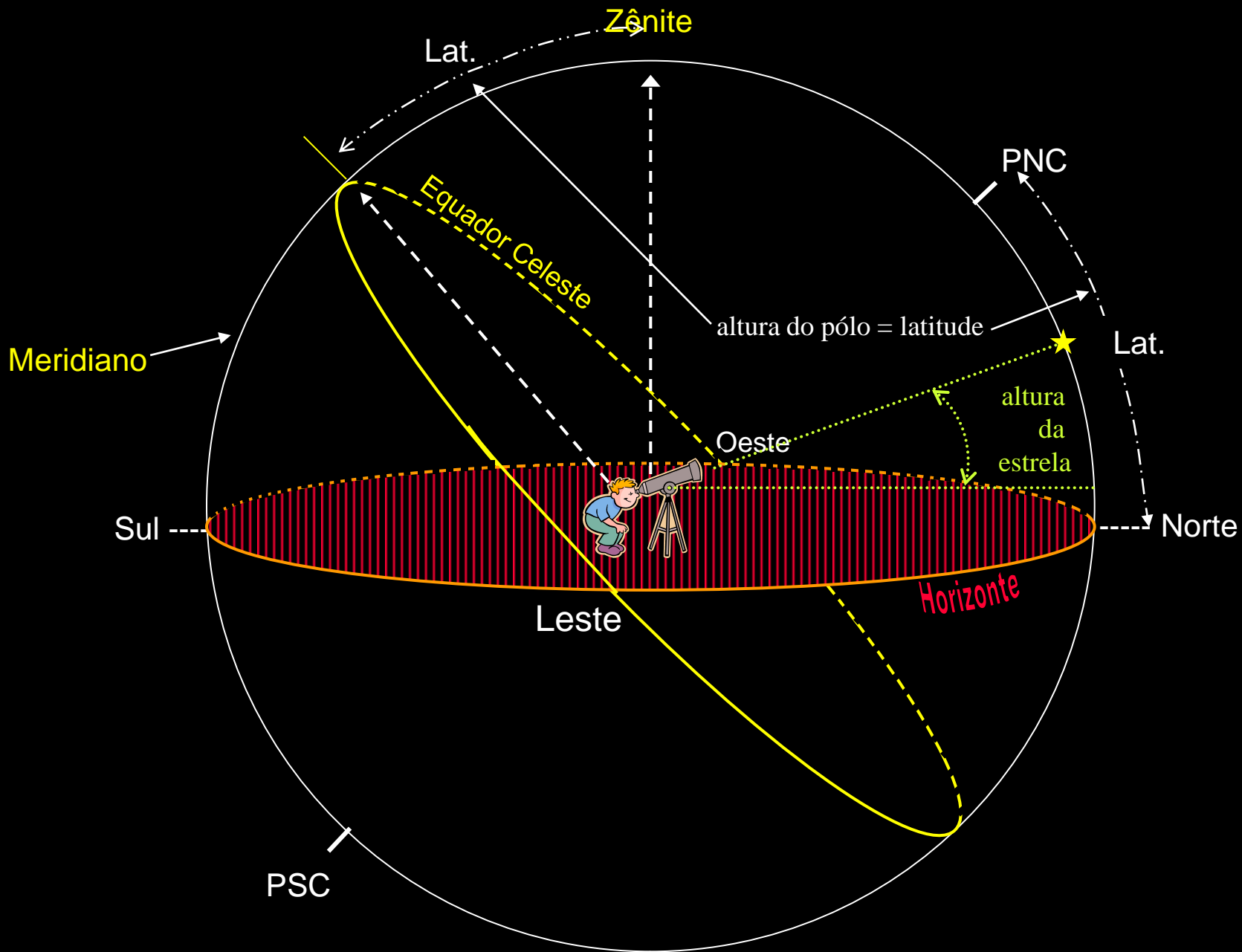


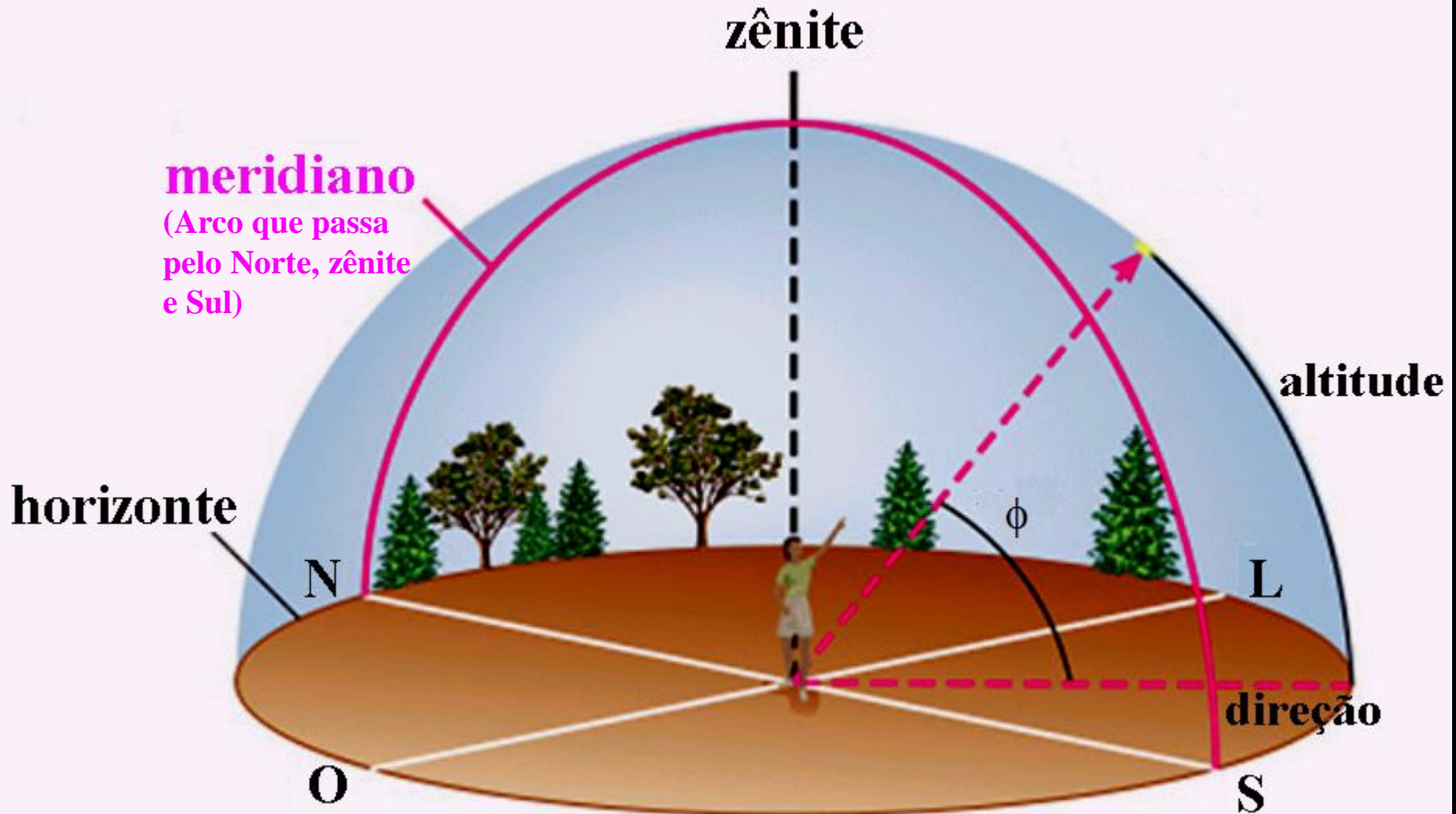
Esfera Celeste



Esfera Celeste



Esfera Celeste

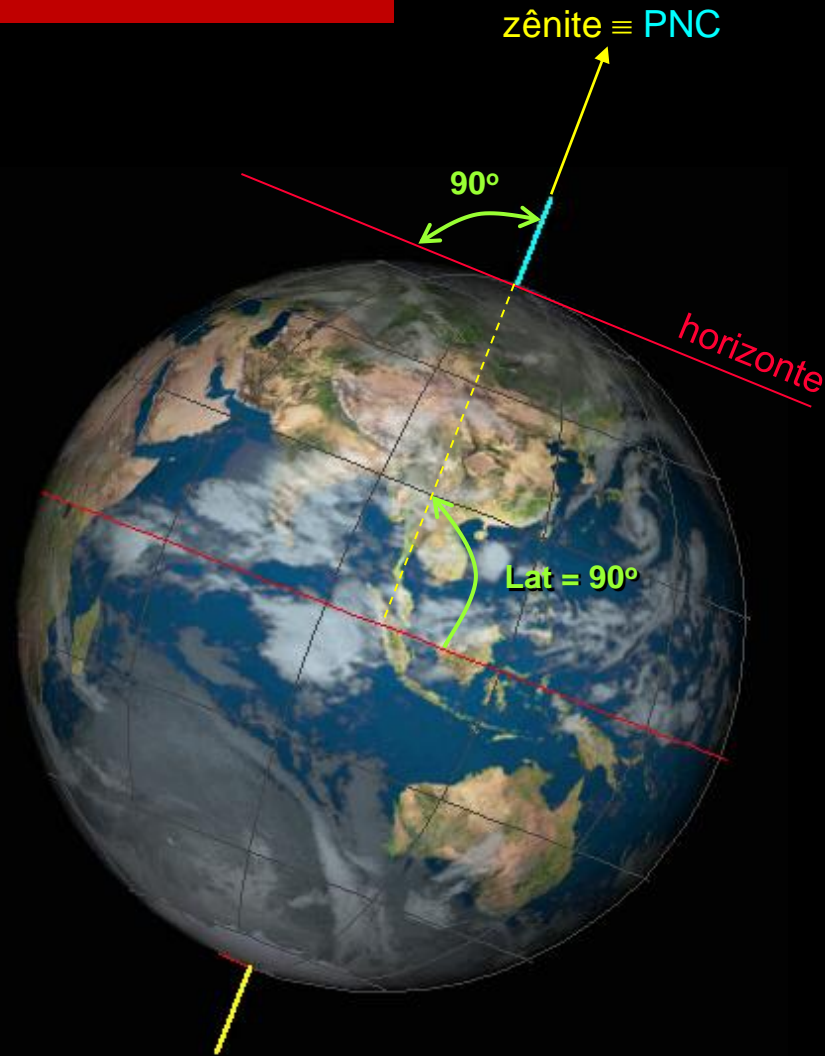


Esfera Celeste

Altura do Pólo Celeste

Observador no
Pólo Norte

Latitude = 90°

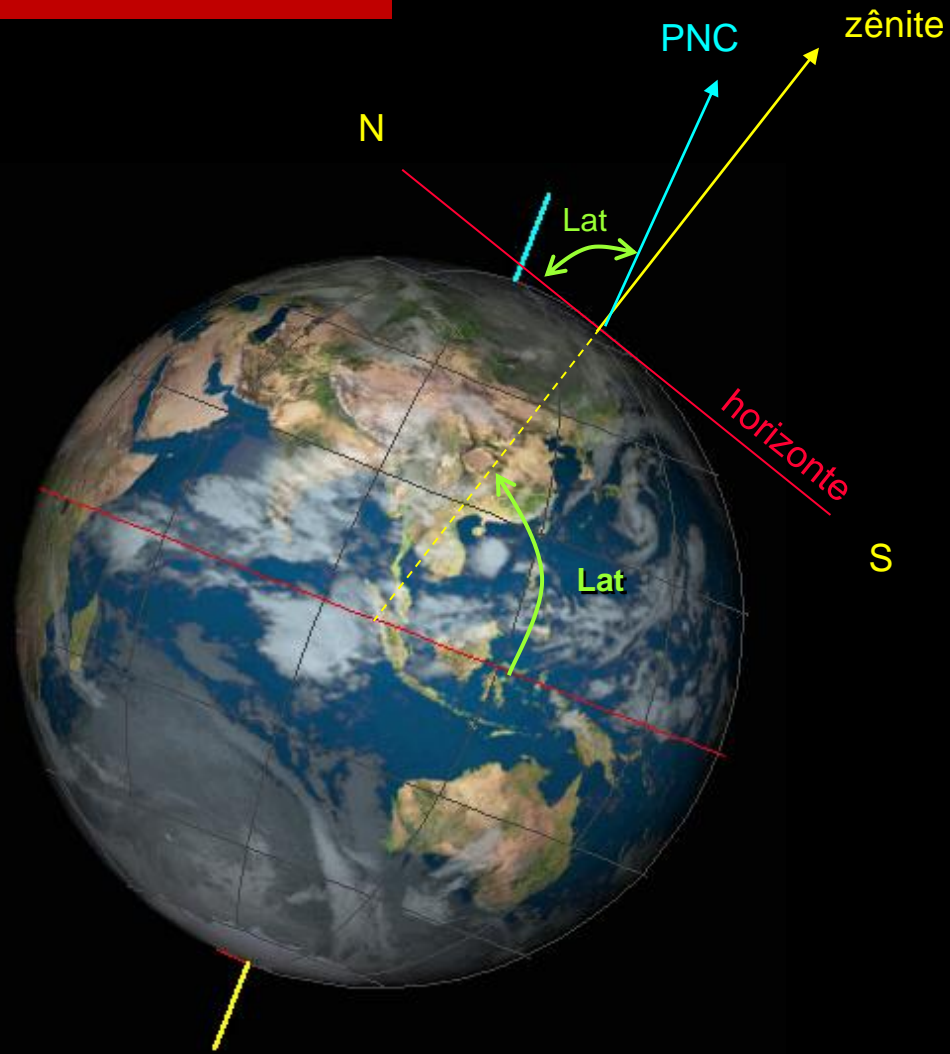


Esfera Celeste

Altura do Pólo Celeste

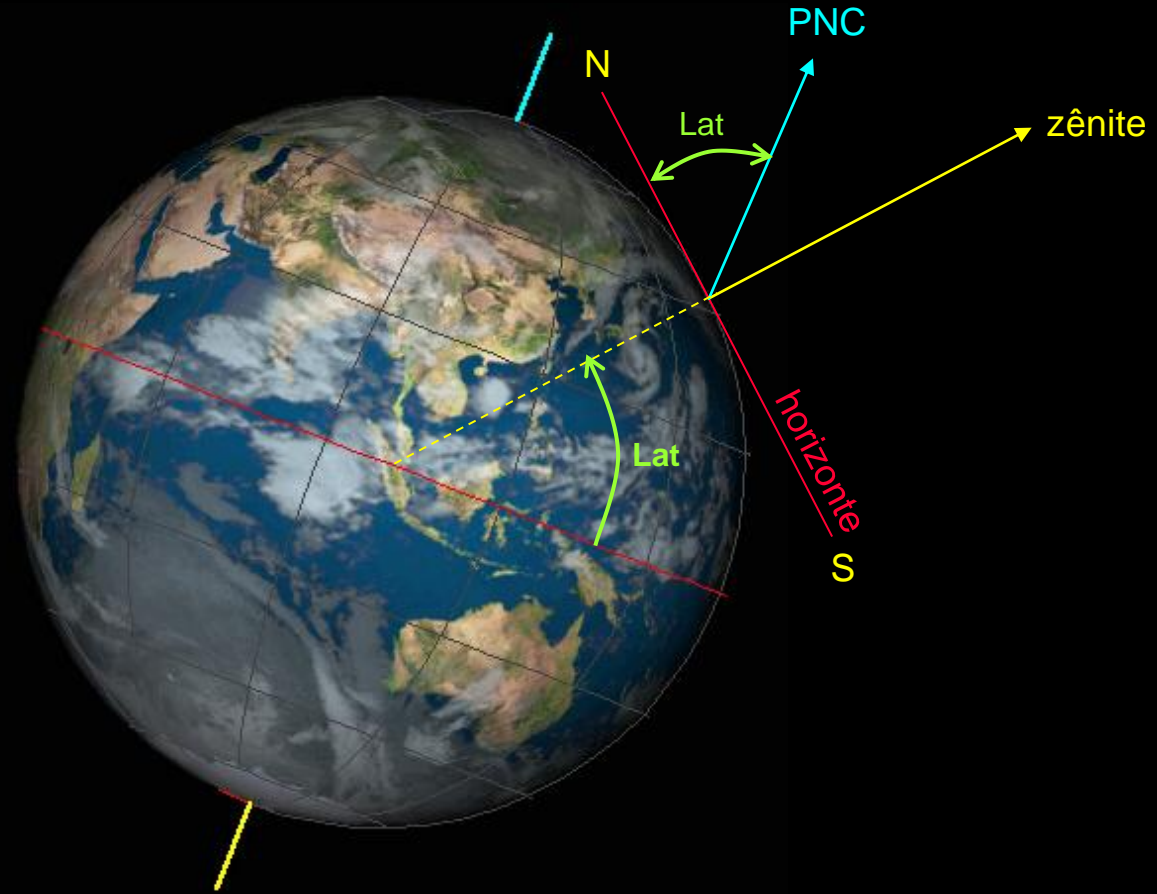
Observador no
Círculo Ártico

Latitude = $66^{\circ} 33'$



Esfera Celeste

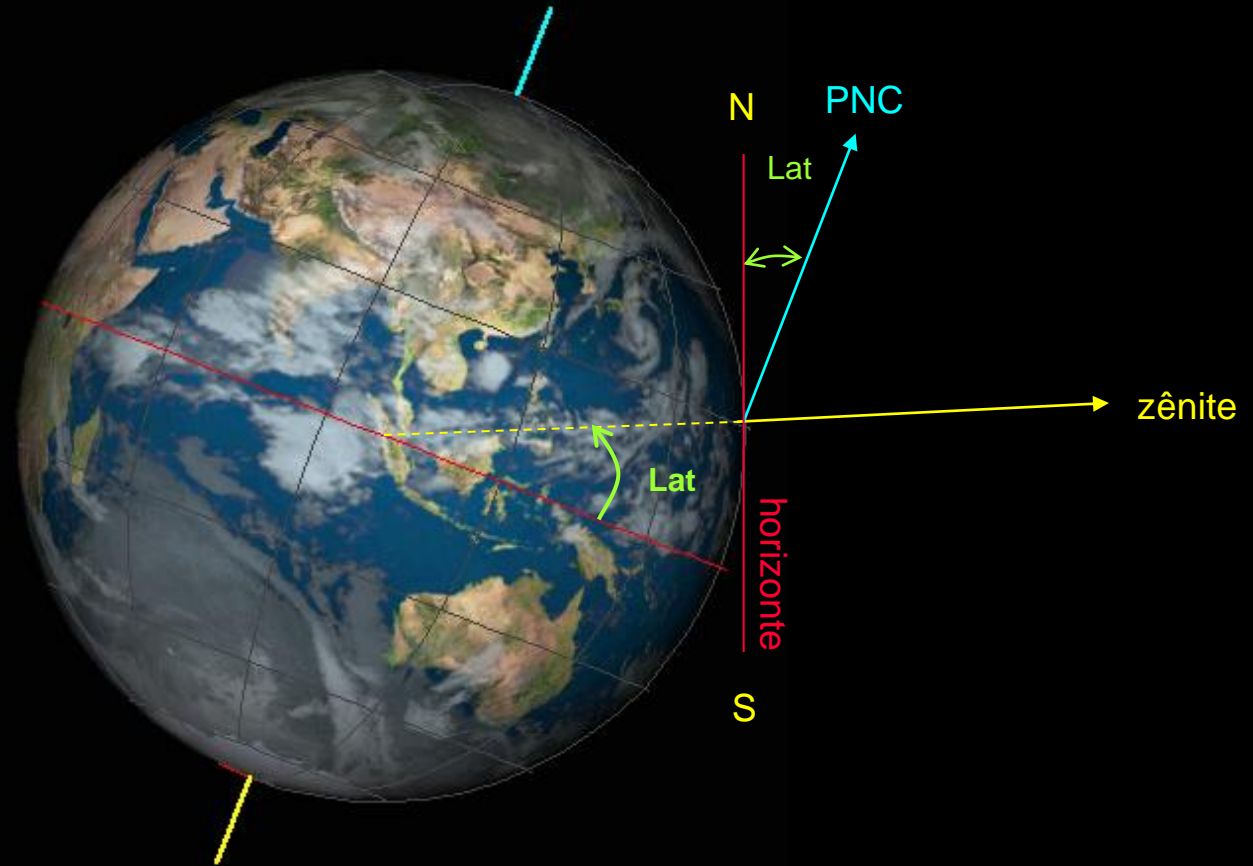
Altura do Pólo Celeste



Altura do Pólo Celeste

Observador no Trópico de Câncer

Latitude = $23^{\circ} 27'$



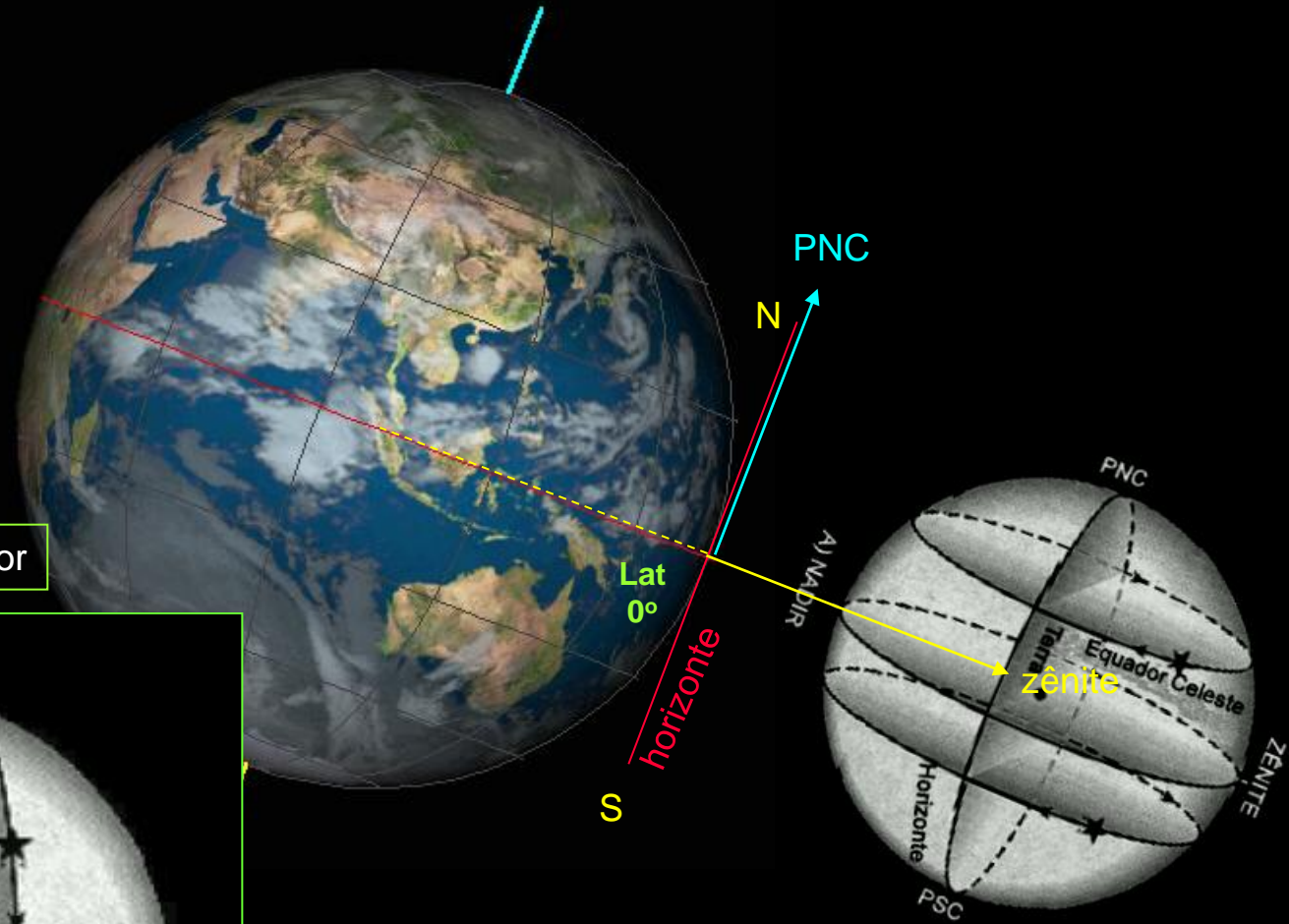
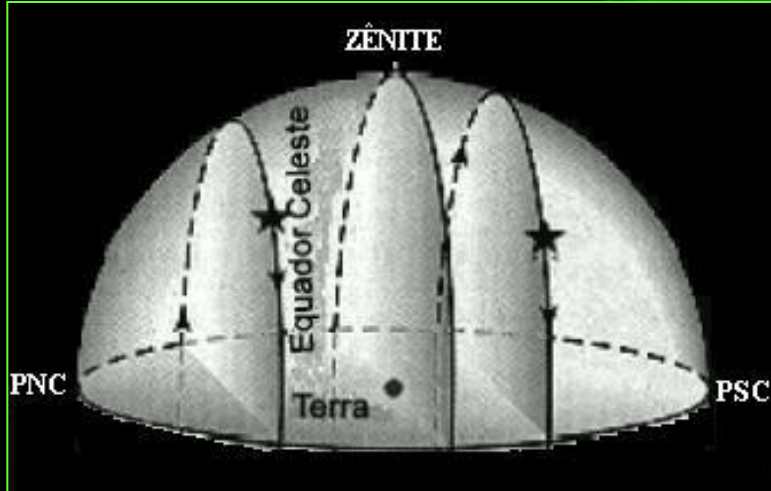
Esfera Celeste

Altura do Pólo Celeste

Observador no Equador

Latitude = 0°

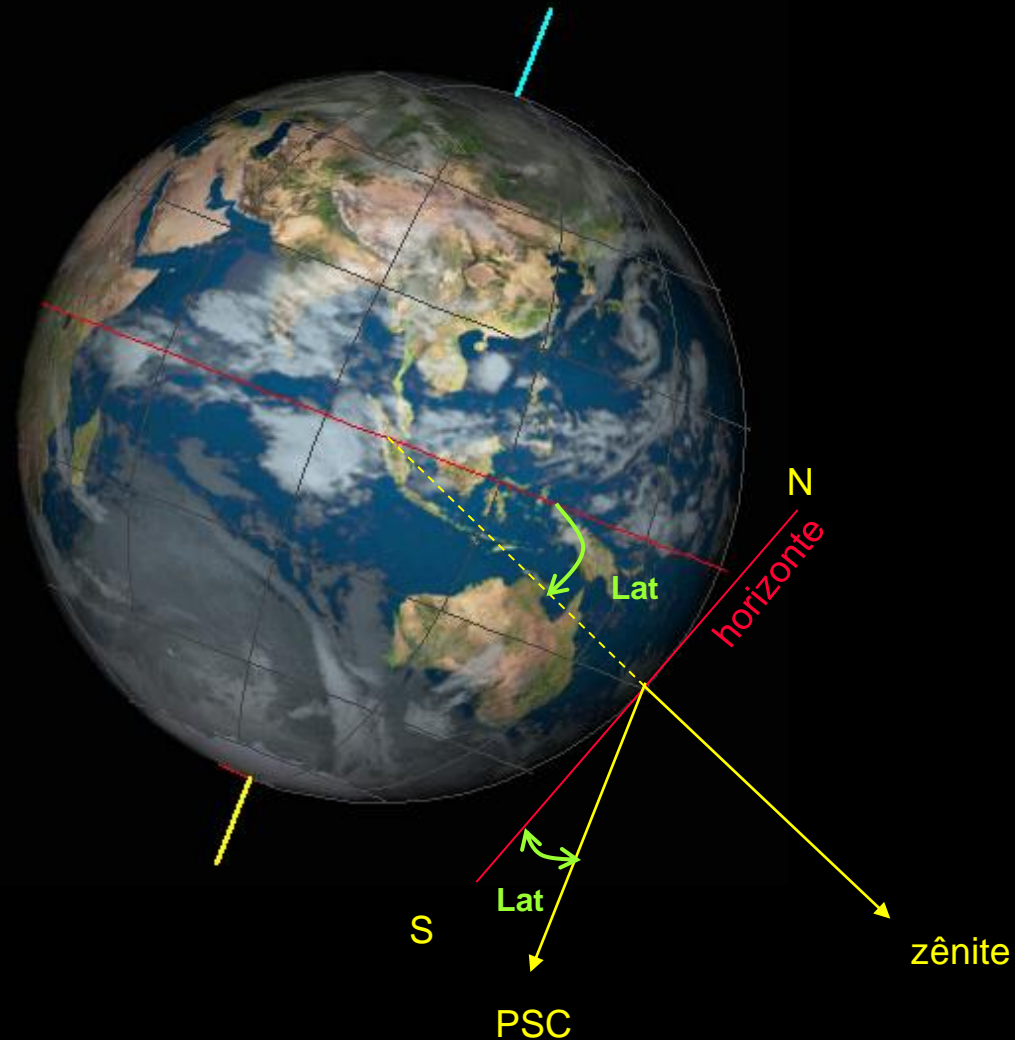
Visão do observador



Altura do Pólo Celeste

Observador no
Trópico de Capricórnio

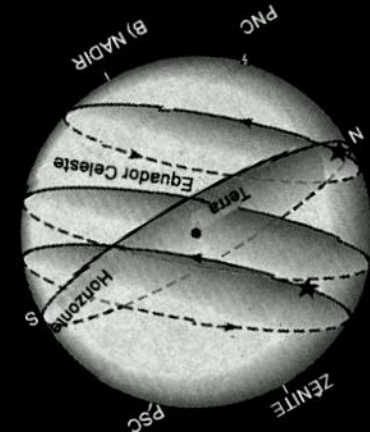
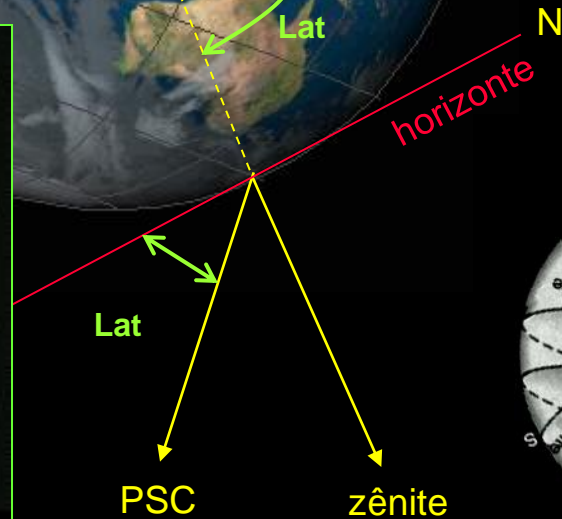
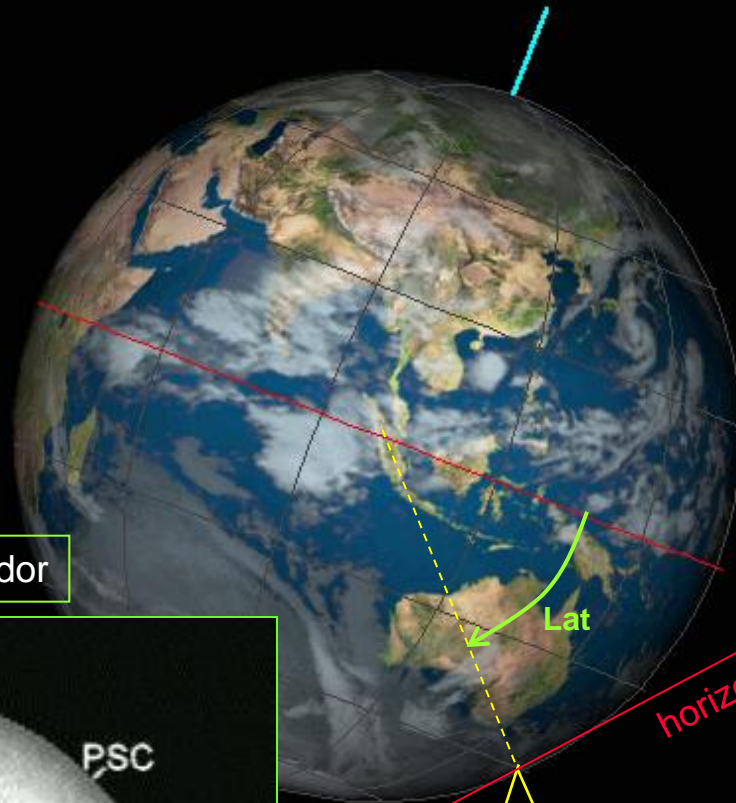
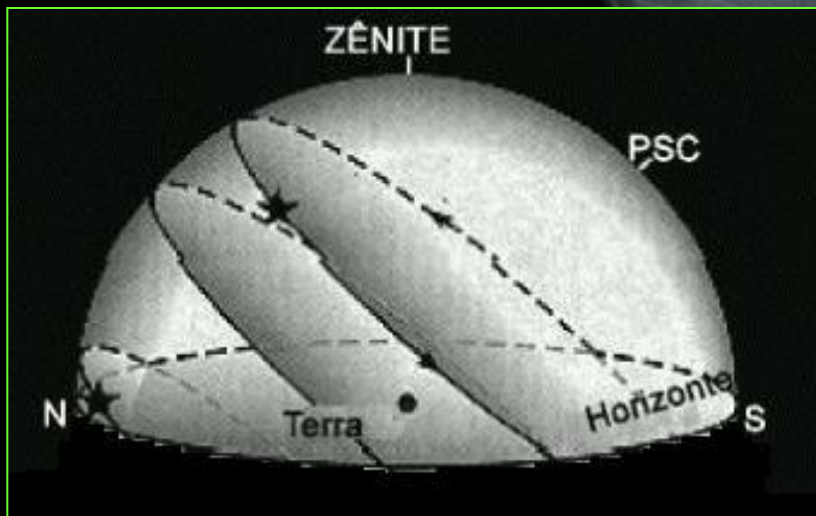
Latitude = $-23^{\circ} 27'$



Esfera Celeste

Altura do Pólo Celeste

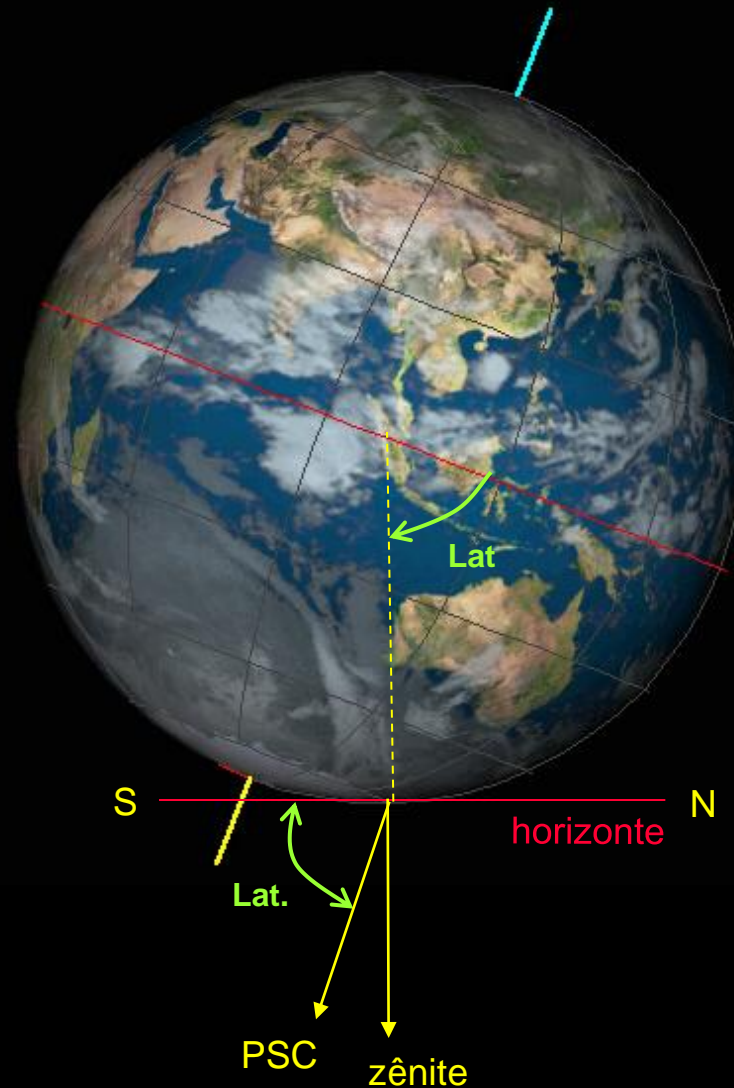
Visão do observador



Altura do Pólo Celeste

Observador no
Círculo Antártico

Latitude = $-66^{\circ} 33'$

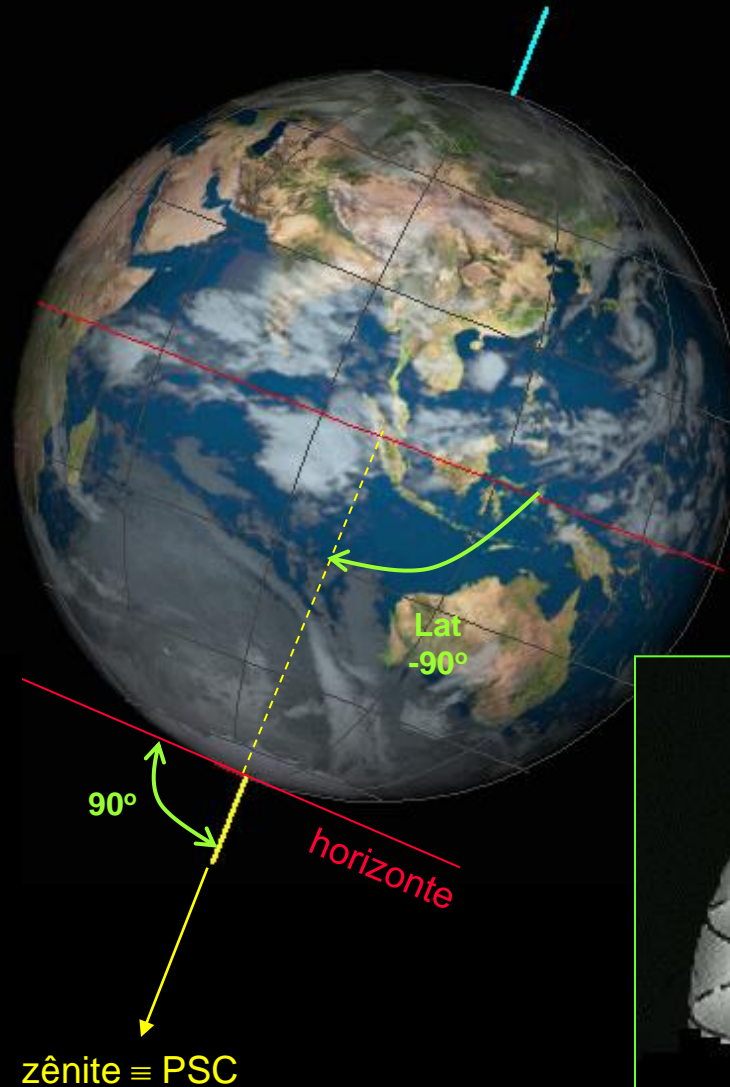


Esfera Celeste

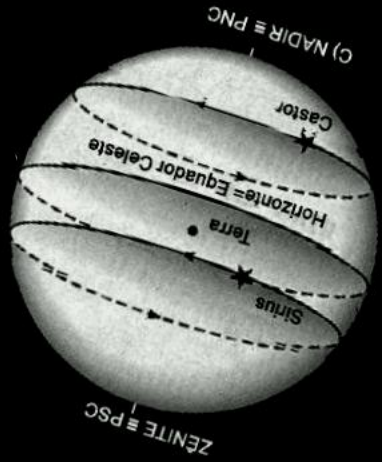
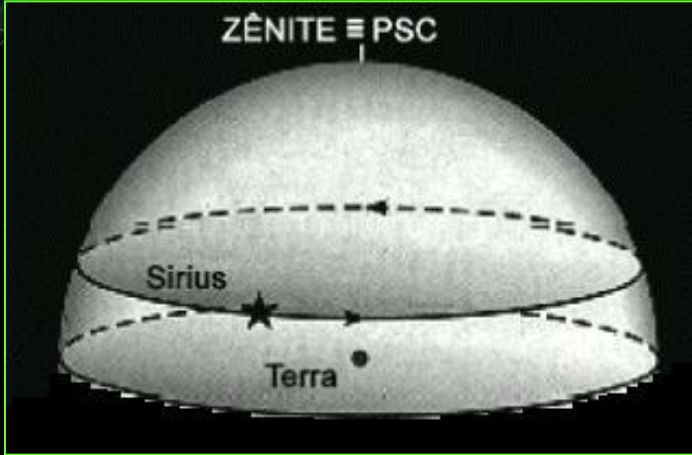
Altura do Pólo Celeste

Observador no Polo Sul

Latitude = -90°

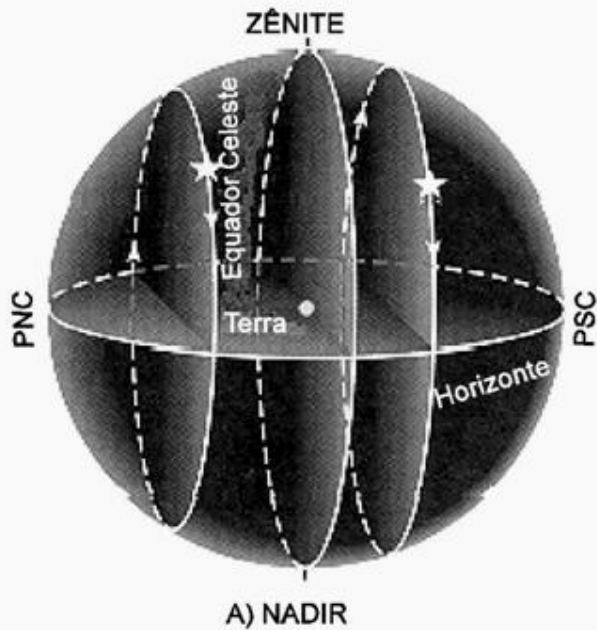


Visão do observador

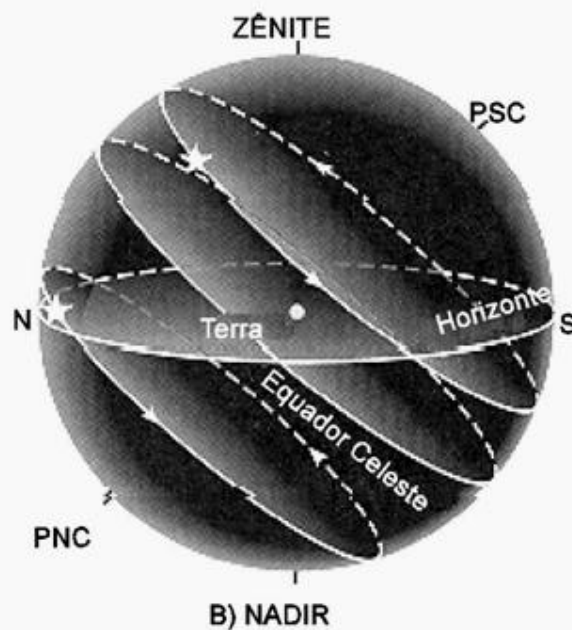


Movimento Aparente

Equador:
arcos perpendiculares
ao horizonte



Latitudes $\pm 45^\circ$:
arcos inclinados
em 45° em relação
ao horizonte



Pólos:
arcos paralelos
ao horizonte

