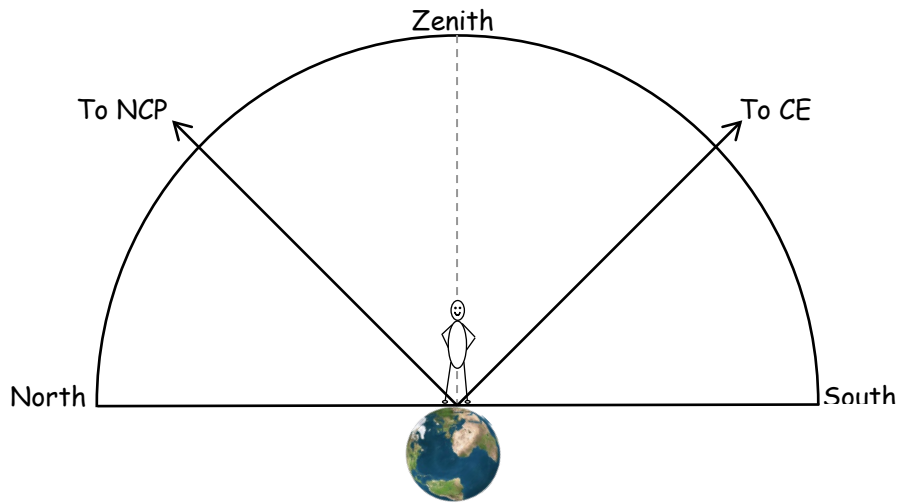


Changes in Latitude, Changes in Altitude



Observers on Earth see the sky "tilted" according to their latitude.

ALTITUDE OF CELESTIAL POLE = OBSERVER'S LATITUDE

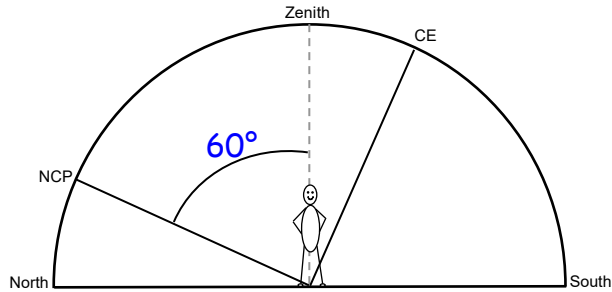
ALTITUDE OF CELESTIAL EQUATOR = 90° - OBSERVER'S LATITUDE

Using these facts, complete the following table¹⁶ and the diagrams on the next page¹²:

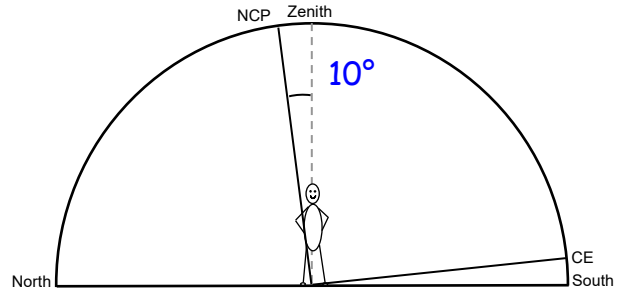
LATITUDE	ALTITUDE OF NORTH CELESTIAL POLE	ALTITUDE OF CELESTIAL EQUATOR
0° N	0°	90°
90° N	90°	0°
45° N	45°	45°
40° N	40°	50°
60° N	60°	30°
20° N	20°	70°
23.5° N	23.5°	66.5°
80° N	80°	10°

ALTITUDE OF CELESTIAL POLE = OBSERVER'S LATITUDE

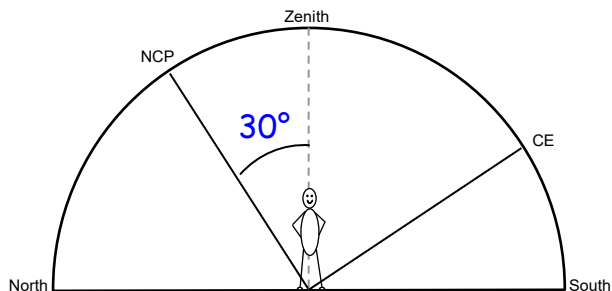
ALTITUDE OF CELESTIAL EQUATOR = 90° - OBSERVER'S LATITUDE



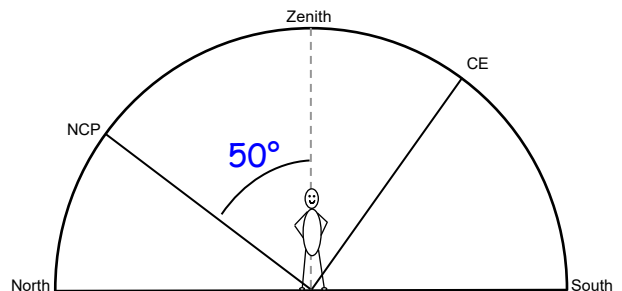
Altitude of NCP: 30°
 Altitude of CE: 60°
 Observer's Latitude: 30° N



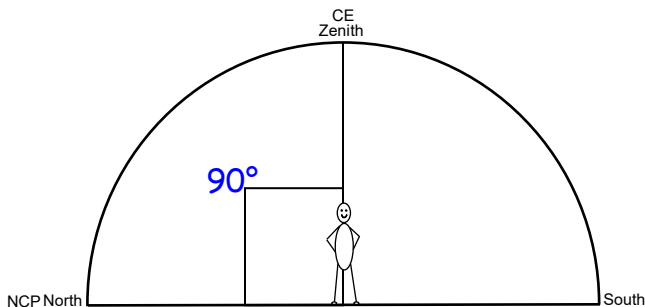
Altitude of NCP: 80°
 Altitude of CE: 10°
 Observer's Latitude: 80° N



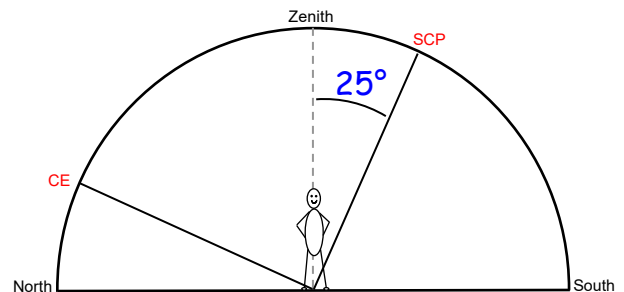
Altitude of NCP: 60°
 Altitude of CE: 30°
 Observer's Latitude: 60° N



Altitude of NCP: 40°
 Altitude of CE: 50°
 Observer's Latitude: 40° N



Altitude of NCP: 0°
 Altitude of CE: 90°
 Observer's Latitude: Equator



Altitude of SCP: 65°
 Altitude of CE: 25°
 Observer's Latitude: 65° S