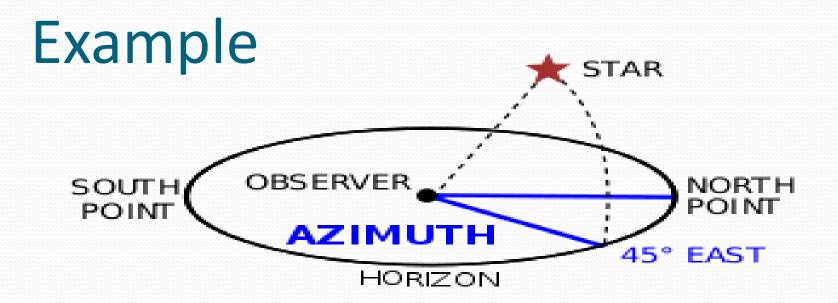
Azimuth, Azimuth Angel

Instructor: Dr. Shatha Amoura Prepared by Abdulla Erraoush

The Word "Azimuth"

- The word azimuth is originated from Arabic ،((سست) meaning "The direction" is an angular measurement in a spherical coordinate system.
- Definition of Azimuth:
- □ The vector from an observer (origin) to a point of interest is projected perpendicularly onto a reference plane; the angle between the projected vector and a reference vector on the reference plane is called the azimuth. Azimuth is usually measured in degrees (°).
- Application of Azimuth:
- The concept is used in many practical applications including navigation, astronomy, engineering, mapping, mining and artillery



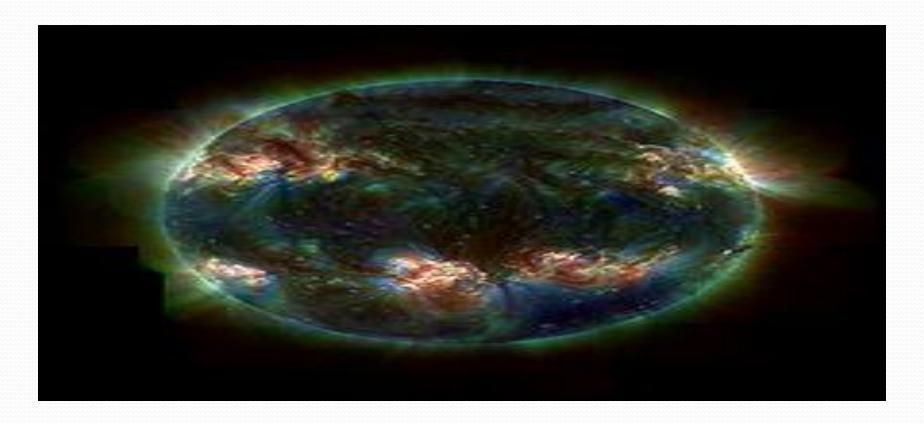
An example of an azimuth is the measurement of the position of a star in the sky.

The star is the point of interest, the reference plane is the horizon or the surface of the sea, and the reference vector points to the north. The azimuth is the angle between the north point and the perpendicular projection of the star down onto the horizon.

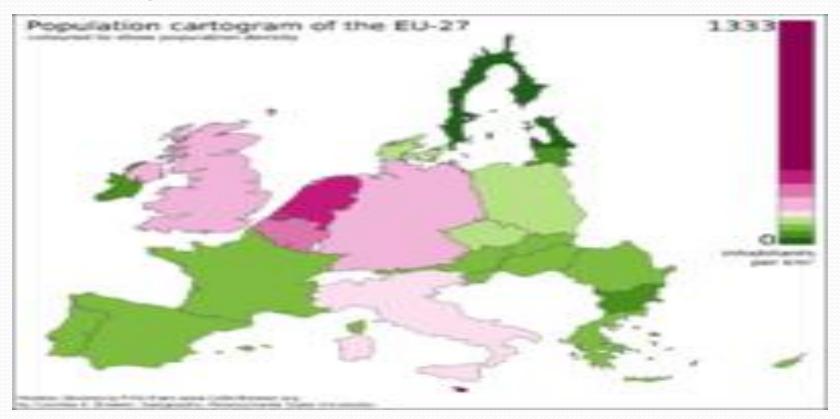
Navigation



Astronomy



Mapping



Artillery



• Engineering (HAVC)

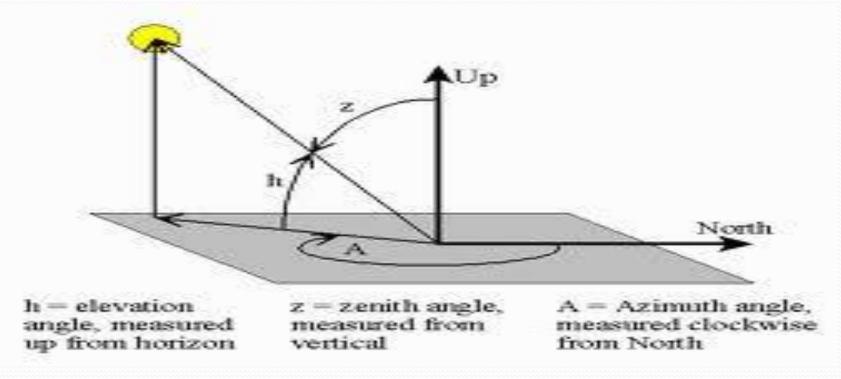




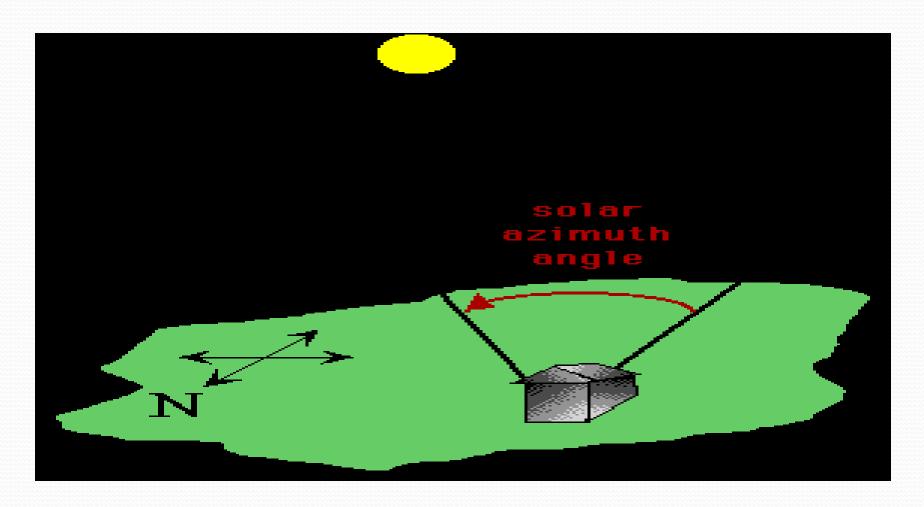
Solar Azimuth Angel

• Definition:

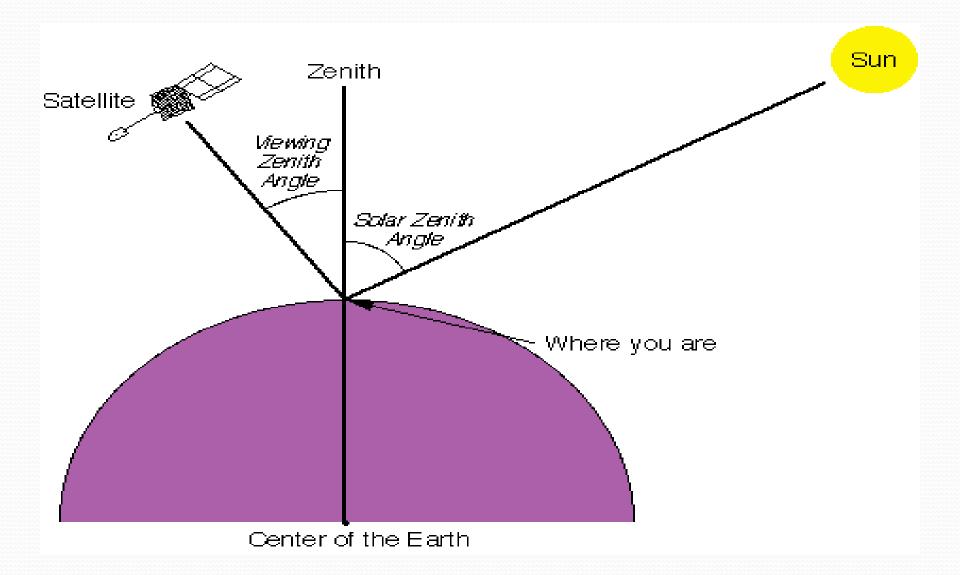
The solar azimuth angle is the <u>azimuth angle of the sun</u>. It is most often defined as the angle from due north in a clockwise direction.



Solar Azimuth Angel



Solar Azimuth Angel



Thank You