

# Cloud Quadrant Protocols

**Purpose:** Normally, the CloudSat satellite will not pass directly over your location, but will be either to the east or the west in the sky above you on flyover days. Because of this, the mission scientists would like you to record additional data (in addition to normal GLOBE measurements). You can help by following these instructions:

**Procedure:** Have four students stand back-to-back with their arms extended up and touching. Each student faces one of the four cardinal directions – north, south, east, west. She/he determines cloud types and percentage of cloud cover for her/his fourth (one quadrant) of the sky. Record any additional weather observations for the quadrant that CloudSat is passing through in the **COMMENTS** (Metadata) section of the data sheet (for example, “lightening several kilometers away to the east”).

**For EACH quadrant of the sky, make observations and record data on:**

**Cloud Type** (*Check all types seen*)

Cirrostratus    Cirrus    Cirrocumulus    Altostratus    Altocumulus  
 Stratus    Stratocumulus    Cumulus    Nimbostratus    Cumulonimbus

**Cloud Cover** (*Check one*)

No clouds    Clear    Isolated    Scattered    Broken    Overcast    Sky obscured

Like this:

