

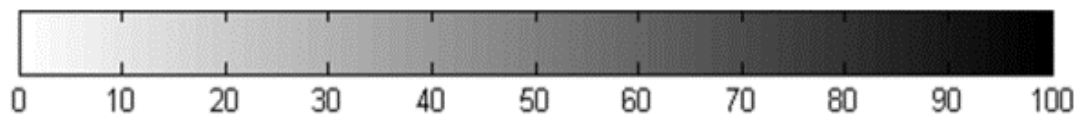
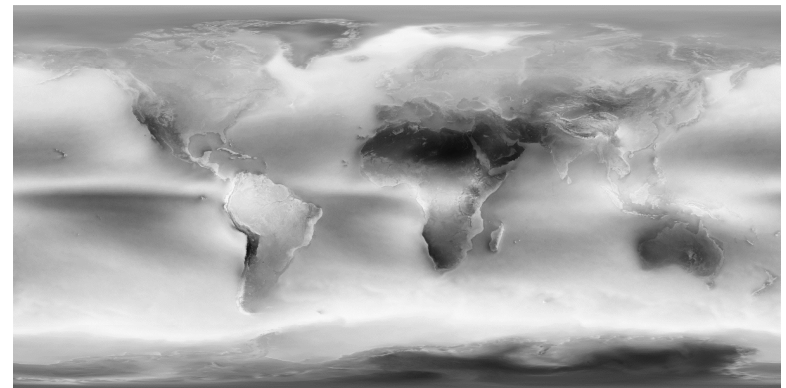
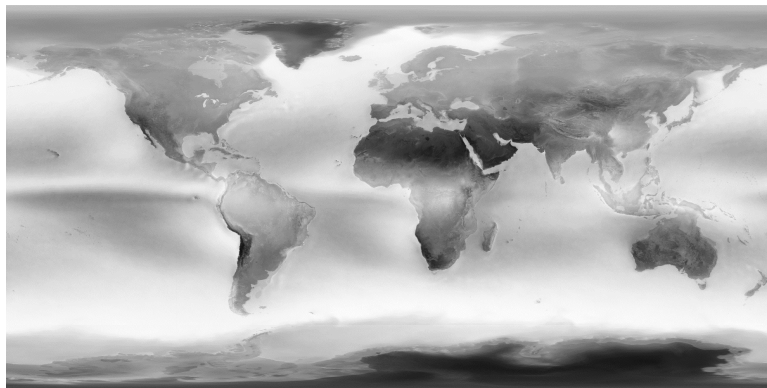
# Expected Cloud Free Views for HypsIRI Using An Afternoon Orbit

- The number of cloud-free views by Earth-orbiting optical remote sensing instruments must be characterized to verify that the coverage is sufficient to address a mission's science objectives.
- This study determines the expected cloud-free coverage for the HypsIRI mission concept using the Terra MODIS 5 km daytime cloud mask dataset covering the period 2003-2006.
- We compare cloud-free coverage for a 10:30AM and 1:30PM equatorial crossing.
- % Cloudiness = percent of views that were cloud free, on a grayscale from white (100% cloud cover) to black (100% cloud free) from 2003-2006.

10:30 AM

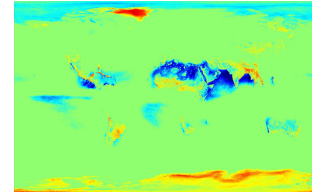
% Cloudiness

1:30 PM

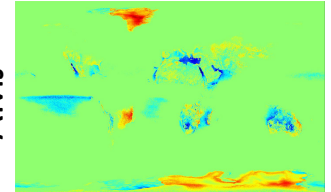


$\Delta$  % Cloudiness

JFM



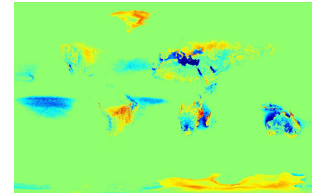
AMJ



Positive = Less AM Cloudiness

Negative = Less PM Cloudiness

JAS



OND

