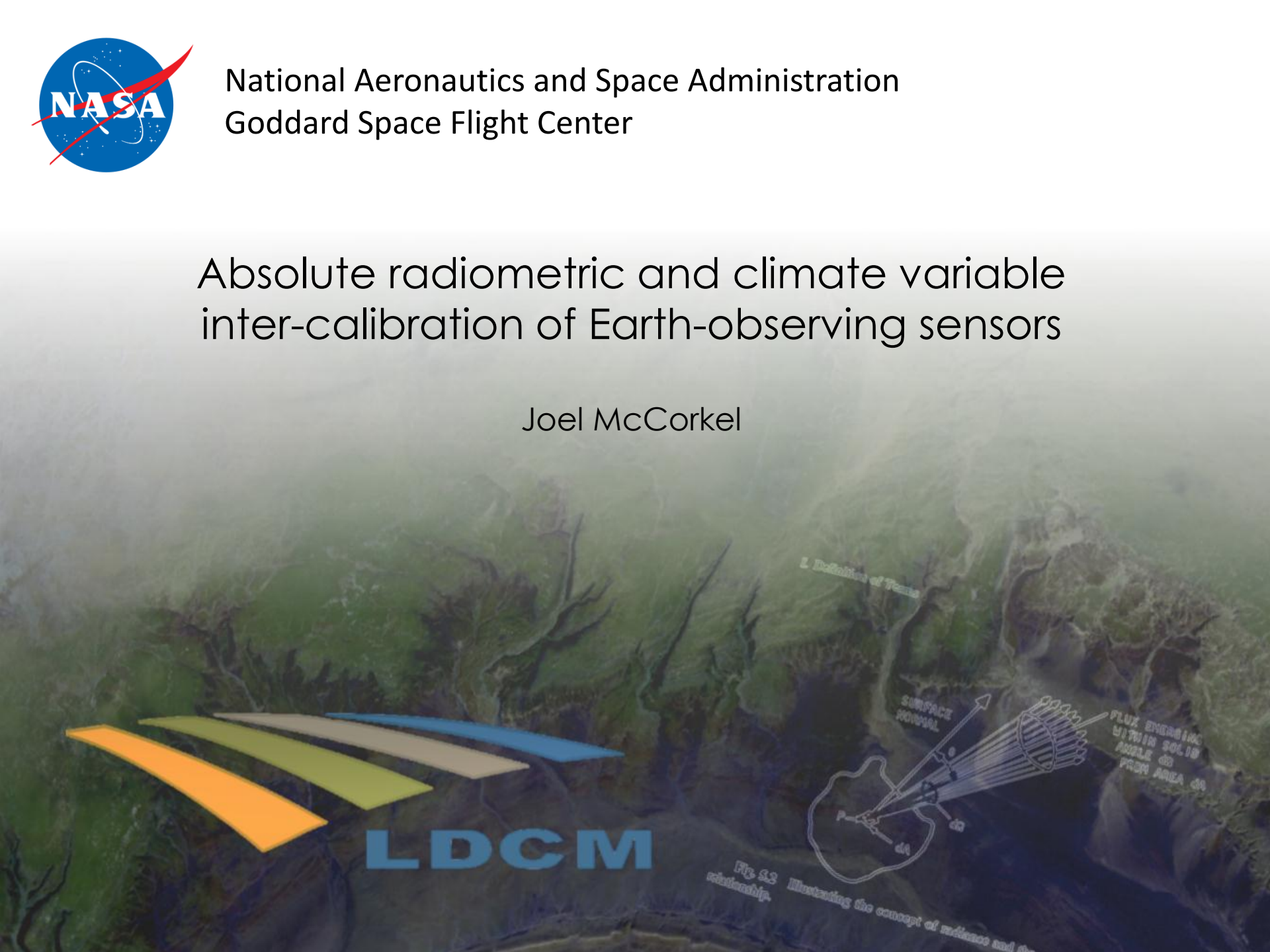
National Aeronautics and Space Administration
Goddard Space Flight Center

Absolute radiometric and climate variable inter-calibration of Earth-observing sensors

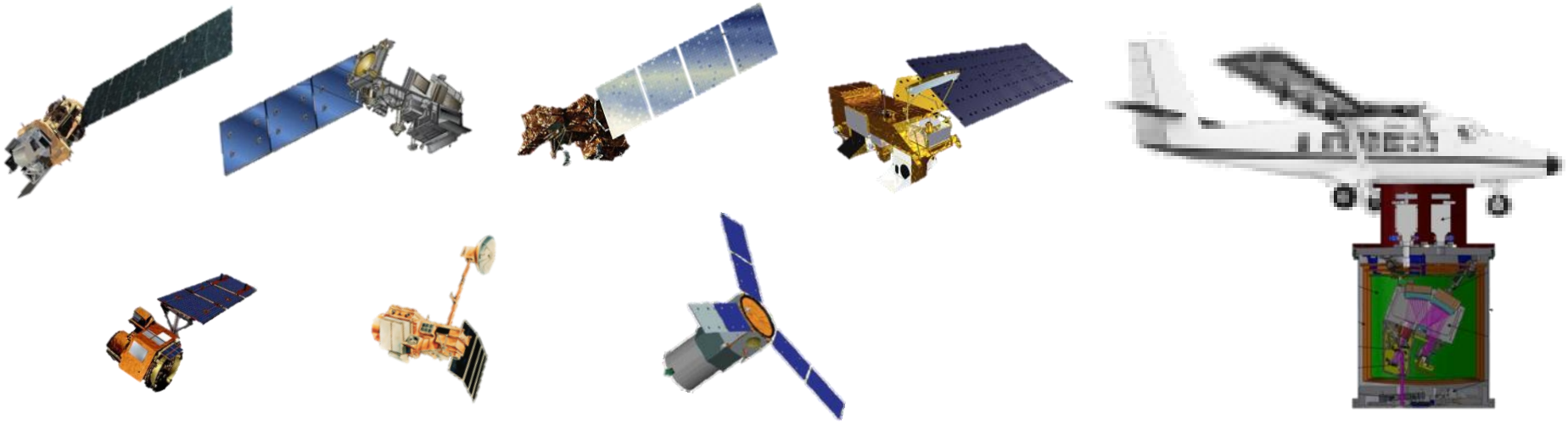
Joel McCorkel



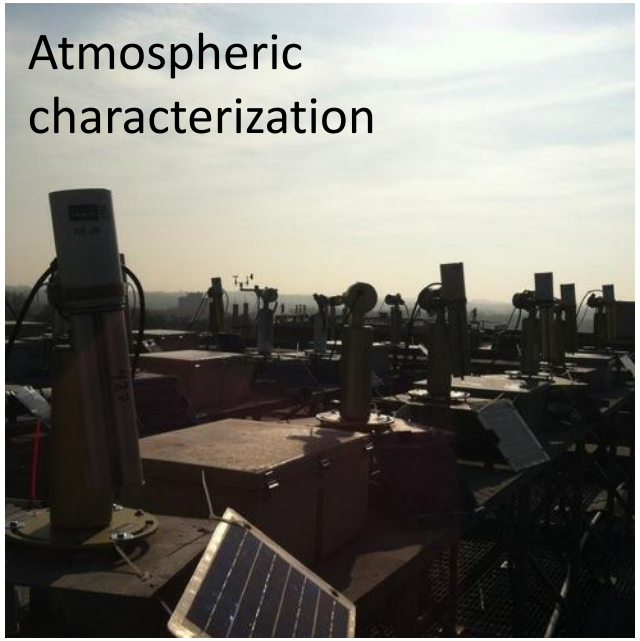
Joel McCorkel – NASA GSFC

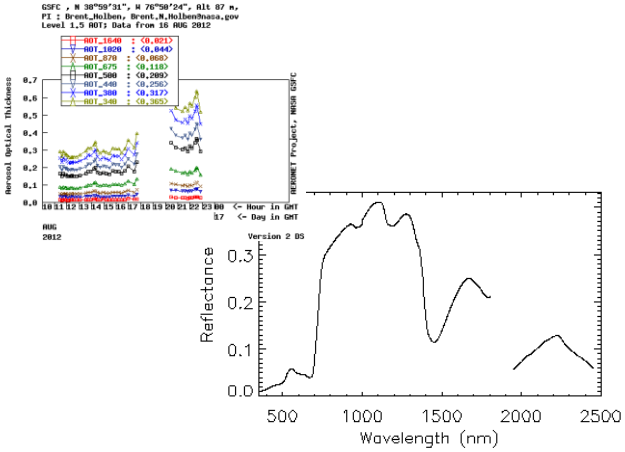
NASA Projects

- CLARREO Reflected Solar Calibration Demonstration System
- JPSS Science/Calibration
- Goddard IRAD for SIRCUS development
- Science Task Group lead: Multi-Mission, Multi-discipline working group approach to calibration



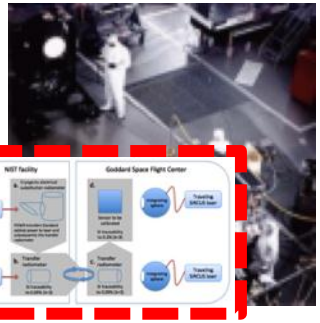
Goddard-based test site

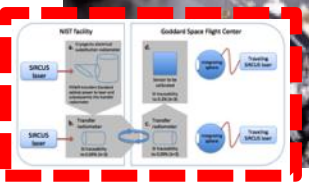


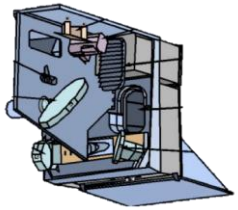


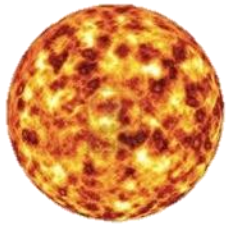
These efforts are part of Goddard Science Task Group: *Multi-discipline, multi-mission working group approach to calibration*

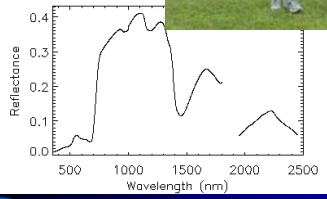
Intercalibration approach



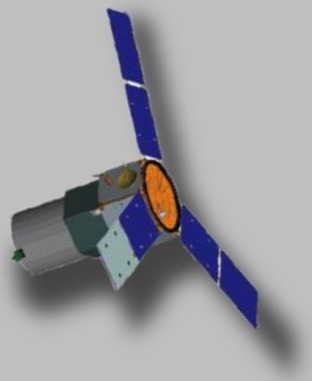


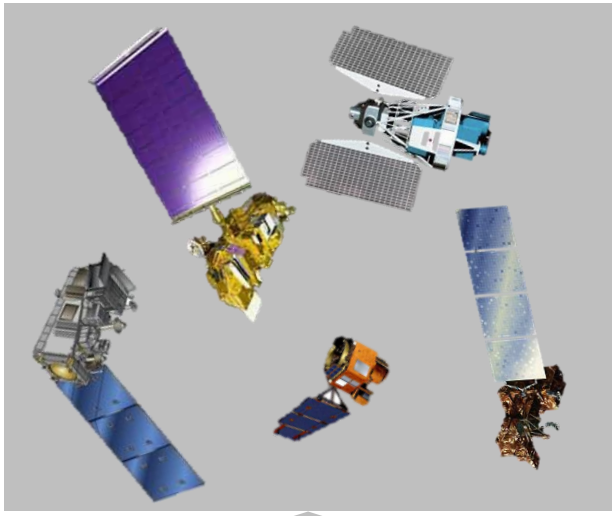




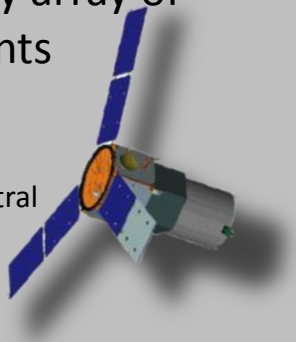


Traceability from
- Prelaunch
- Onboard
- Sun
- Vicarious





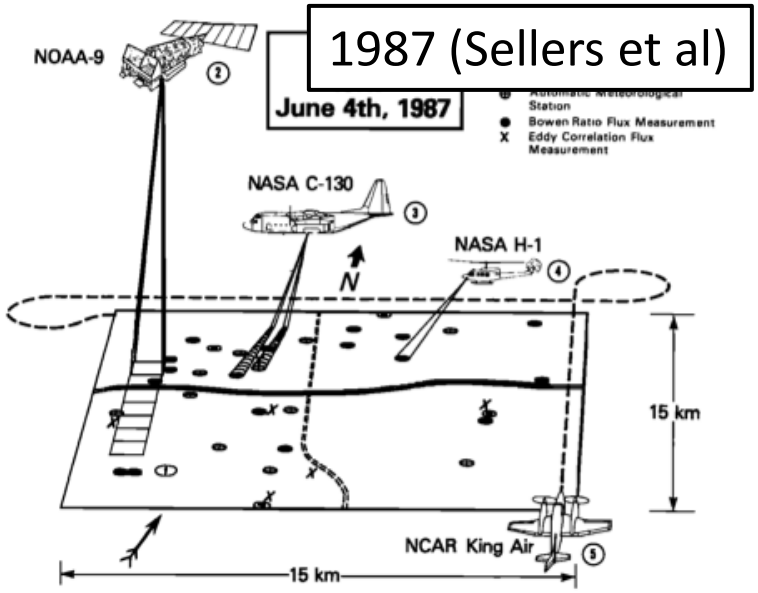
Transfer radiometer + Model supported by array of measurements

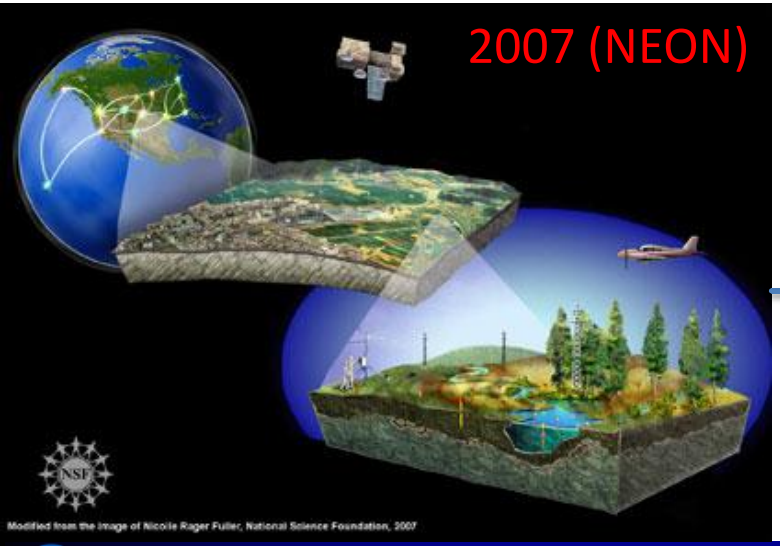


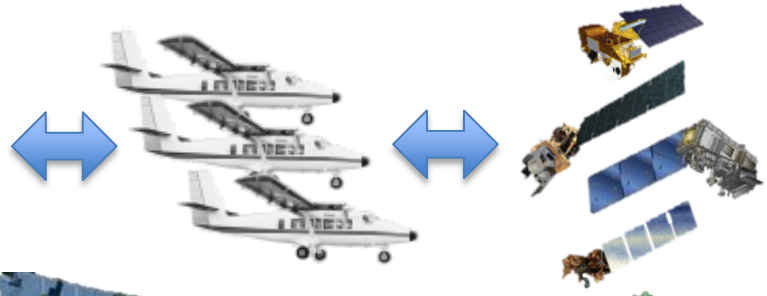
Continuous spectral reflectance measurements

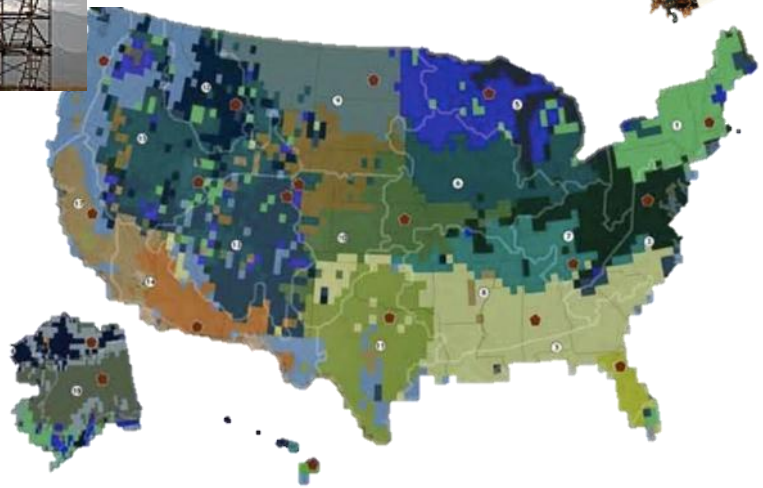
AIRS SCIAMACHY OMI *BRDF*

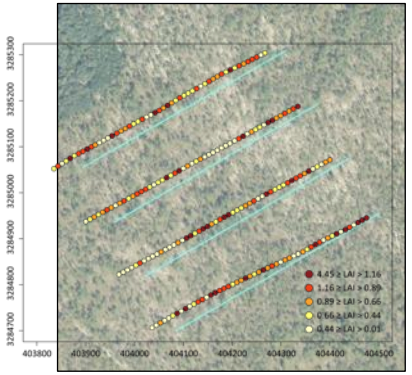
Scaling strategies

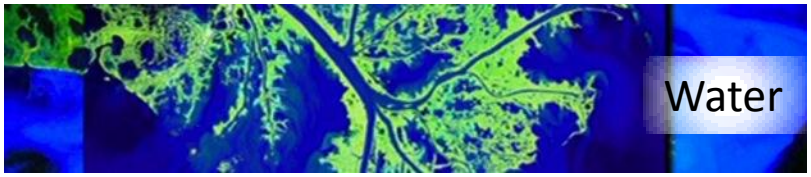
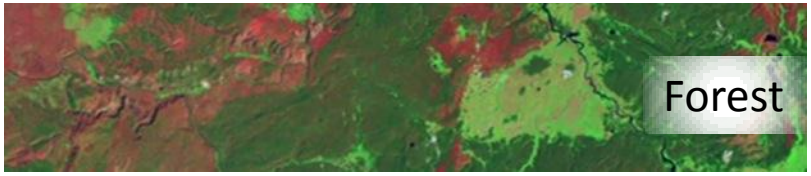
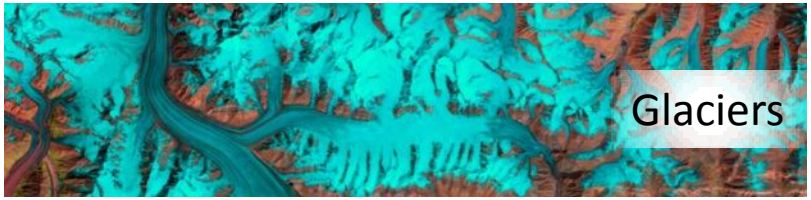










Doha 2012

DOHA 2012
UN CLIMATE CHANGE CONFERENCE
COP18·CMP8