ATS/CIRA Colloquium

Alexander Marshak

Visiting ATS from the NASA Goddard Space Flight Center

Deep Space Earth Observations

Hosted by Christine Chiu

Friday, March 1, 2019

ATS room 101
Discussion will begin at 11:15 a.m.
Refreshments will be served at 10:45 a.m. in the weather lab

The Deep Space Climate Observatory (DSCOVR) was launched on 11 February 2015 to a sun–Earth first Lagrange point (L1) orbit, approximately 1 million miles from Earth toward the sun. The Earth Polychromatic Imaging Camera (EPIC) onboard DSCOVR is one of the two Earth-facing science instruments; EPIC delivers nearly hourly observations of the entire sunlit face of the Earth. We discuss the specifics of deep space earth observations and review the products retrieved from these measurements. Also, there are many images containing unexpected bright flashes of light over both ocean and land. We examine the origin of these flashes and demonstrate conclusively that many flashes are specular reflections off tiny ice platelets floating in the air nearly horizontally.

Link to colloquia page: https://www.atmos.colostate.edu/colloquia/