

CICS-MD Science Meeting

November 12-13, 2014

College Park, MD

[Dongdong Wang](#)

6-5 Direct Estimation of Land Surface Albedo from
VIIRS Data

Shunlin Liang, Tao He, and
Yunyue Yu

Land surface albedo (LSA), part of the Visible Infrared Imaging Radiometer Suite (VIIRS) surface albedo environmental data record (EDR), is an essential variable regulating shortwave energy exchange between the land surface and the atmosphere. This talk will present the recent improvement to the VIIRS LSA algorithm and validation results. Comparison with field measurements at seven Surface Radiation (SURFRAD) Network sites shows that VIIRS LSA retrieved from the LUT with surface BRDF has an R^2 value of 0.80, root mean square error of 0.049, and a slight negative bias of 0.004, better than the existing product.