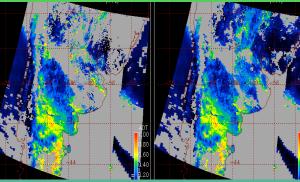
IMPROVED MODIS AEROSOL RETRIEVALS - COMING TO A COLLECTION NEAR YOU!

L.A. Remer, Y.J. Kaufman, D. Tanré¹,

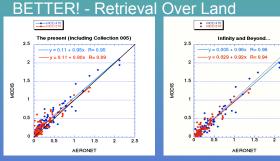
R.G. Kleidman², R-R. Li³, R. Levy², S.Mattoo², D.A. Chu⁴, J.V. Martins⁴, C. Ichoku², I. Koren⁴, Z. Ahmad² NASA/Goddard Space Flight Center

Collection 005 **MORE! - Land Pixels Retrieved**

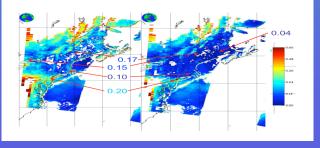


Negative values of 1.38 µm now permitted allowing additional retrieval of land pixels.

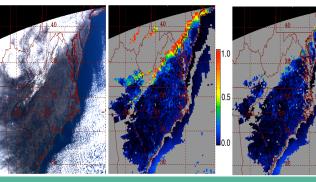
Collection 006



Fixed ratios of red and blue to 2.1 µm (top left) are replaced by parameterization with respect to geometry (top right) to produce more accurate land retrievals (below)



LESS! - Snow Contamination

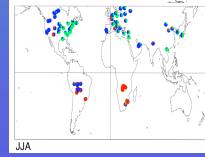


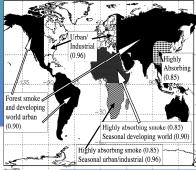
Snow mask implemented as described in Li et. al. (2005)

DIVIDE and CLUSTER the World!

Subjective distribution of aerosol models over land surface recently validated by objective clustering analysis of AERONET data.

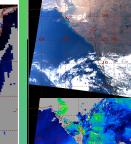
AERONET Cluster



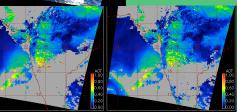


Objective Clustering 006?

BETTER! - Cloud Mask



New Cloud Mask Logic over land implemented



NEW! - Inversion for Land

Leading to better aerosol size determination over land

IMPROVED! - Aerosol Models

Including nonspherical particles over ocean