



FINNISH METEOROLOGICAL INSTITUTE

The EUMETSAT
Network of
Satellite Application
Facilities



CM SAF
Climate Monitoring



SCOPE • CM

SCM-02

Albedo Polar Orbiters

Finnish Meteorological Institute

FMI, Dr. Terhikki Manninen and Dr. Aku Riihelä

NOAA, Dr. Jeffrey Key

University of Massachusetts Boston, Prof. Crystal Schaaf

EUMETSAT/ SCISYS Deutschland GmbH, Mr. Alessio Lattanzio



Work plan and current progress

Points #1 - #3 of the 2014 work plan (see Annex A of project proposal):

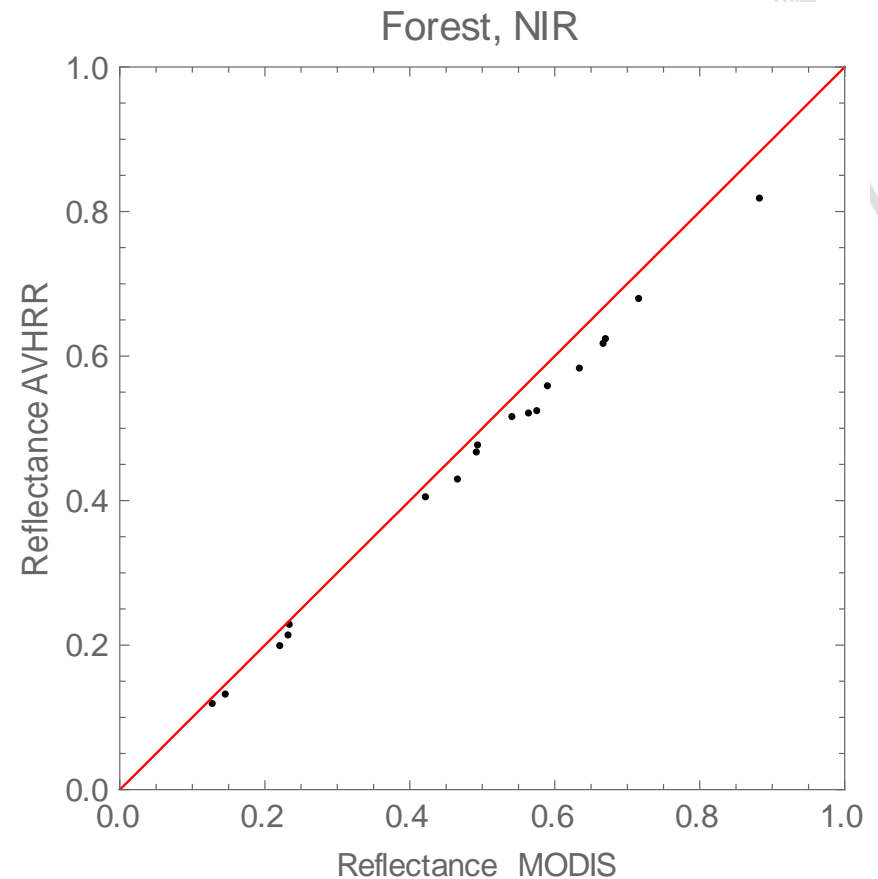
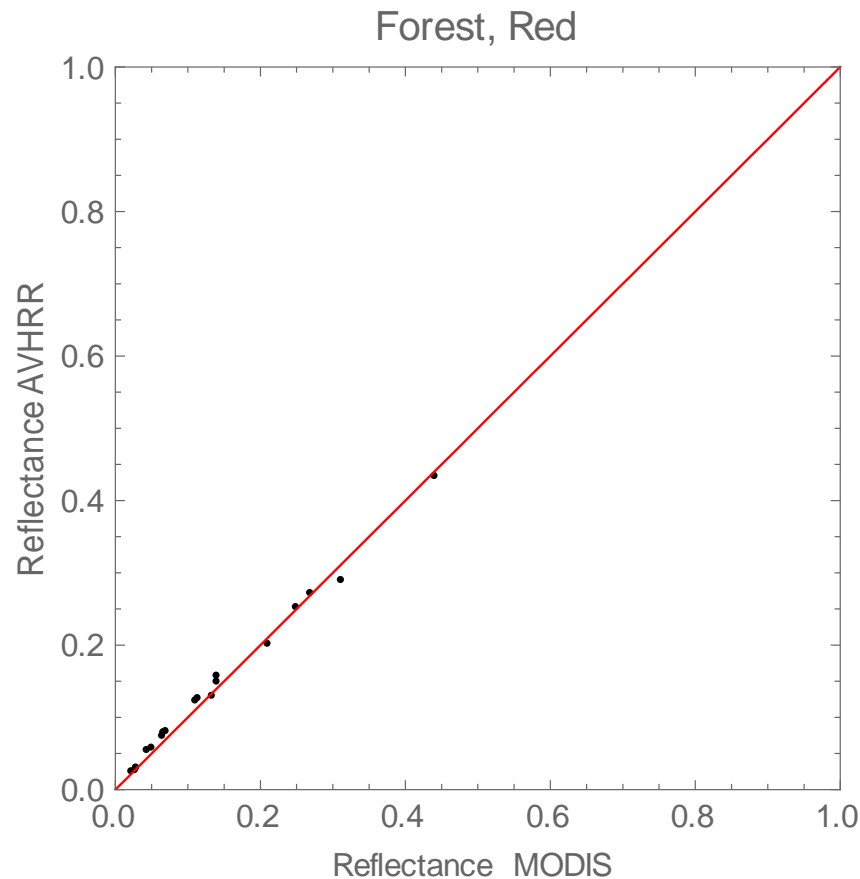
- Carried out as planned 1.1.2014 – 1.9.2014
- A plan for a visit of Aku Riihelä to NOAA Madison, Wisconsin (fall 2015)
- Agreement of atmospheric correction method (6S)
- Afternoon/morning products separately?
- Tentative choice of BRDF
- UMB makes a list of good and difficult sites.
- Logistic plan presented already in spring 2014.

Point #4 has started:

- Reflectance spectra of diverse targets have been analyzed.

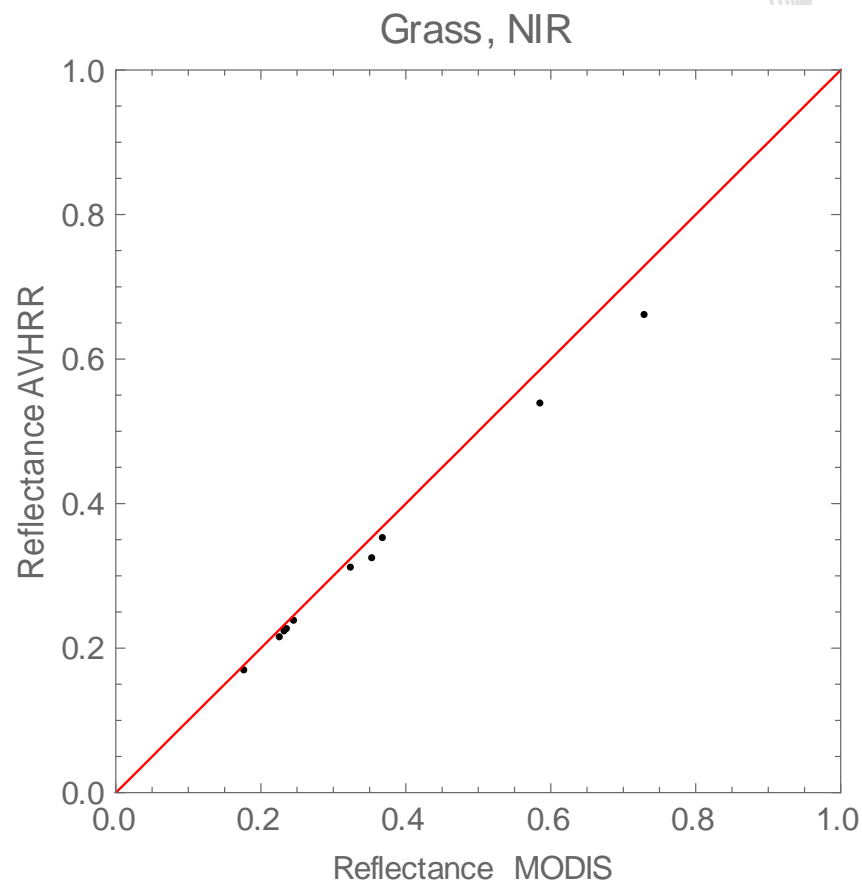
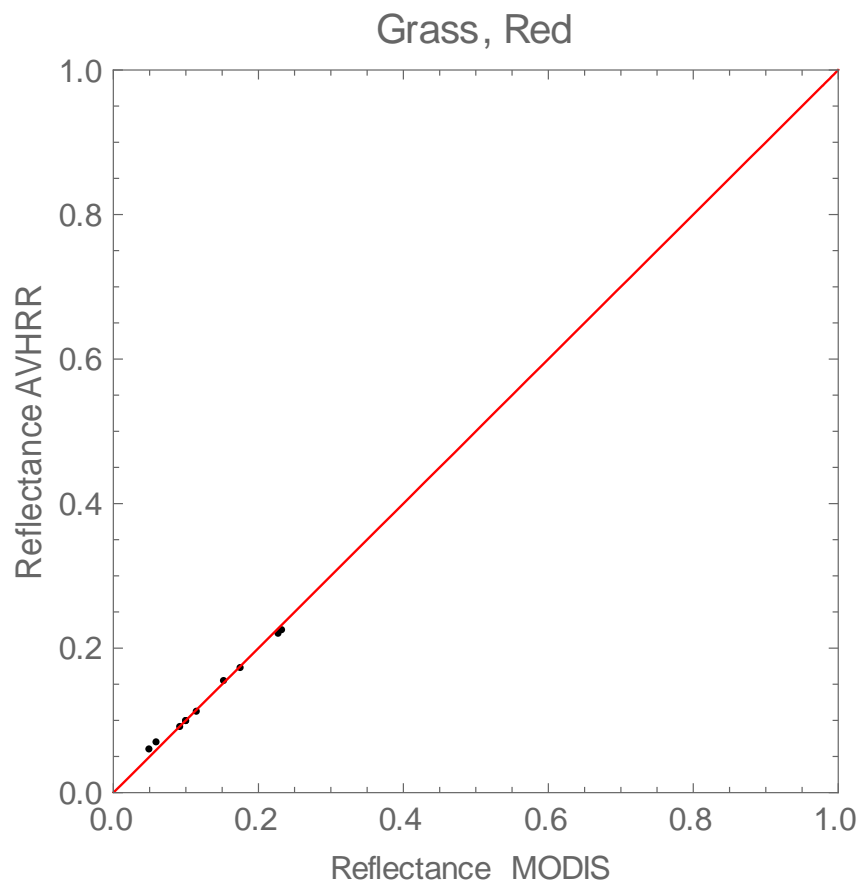


Comparison of various targets from USGS spectral lab in MODIS and AVHRR bands



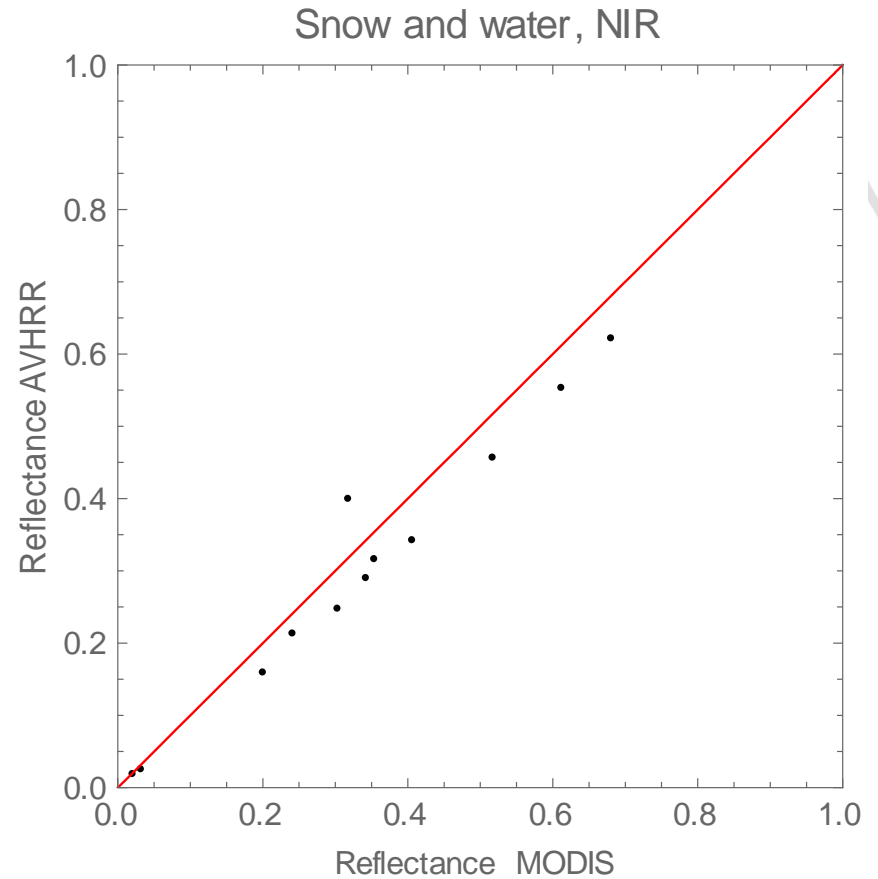
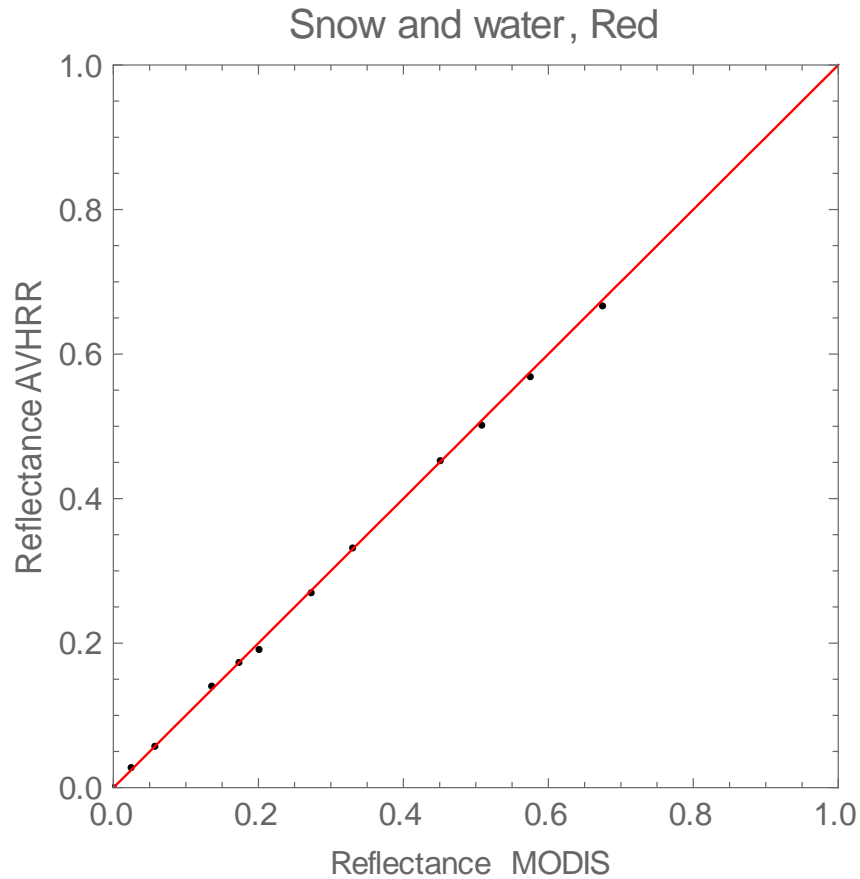


Comparison of various targets from USGS spectral lab in MODIS and AVHRR bands





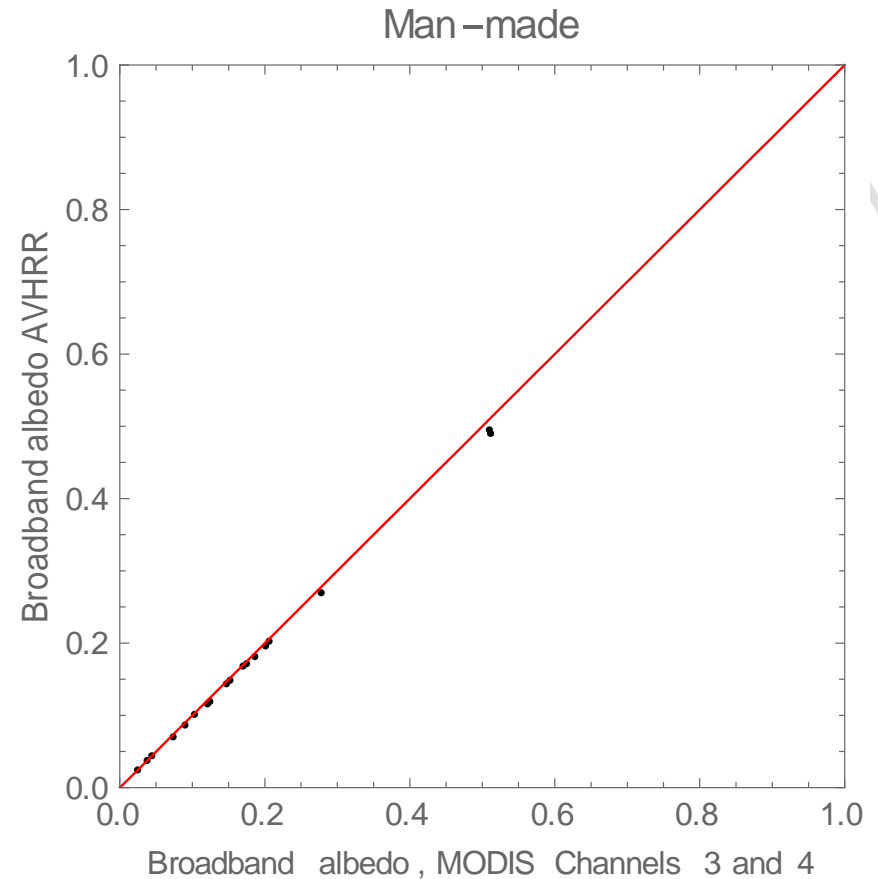
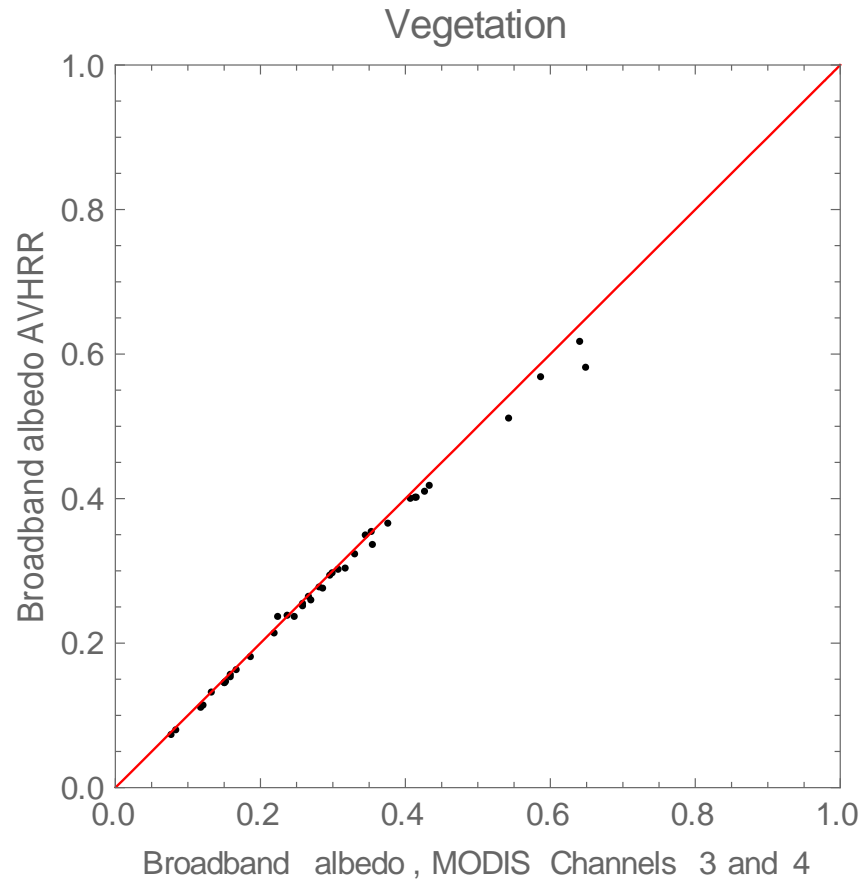
Comparison of various targets from USGS spectral lab in MODIS and AVHRR bands





Simulation of broad band albedo for various targets from USGS spectral lab in MODIS and AVHRR bands

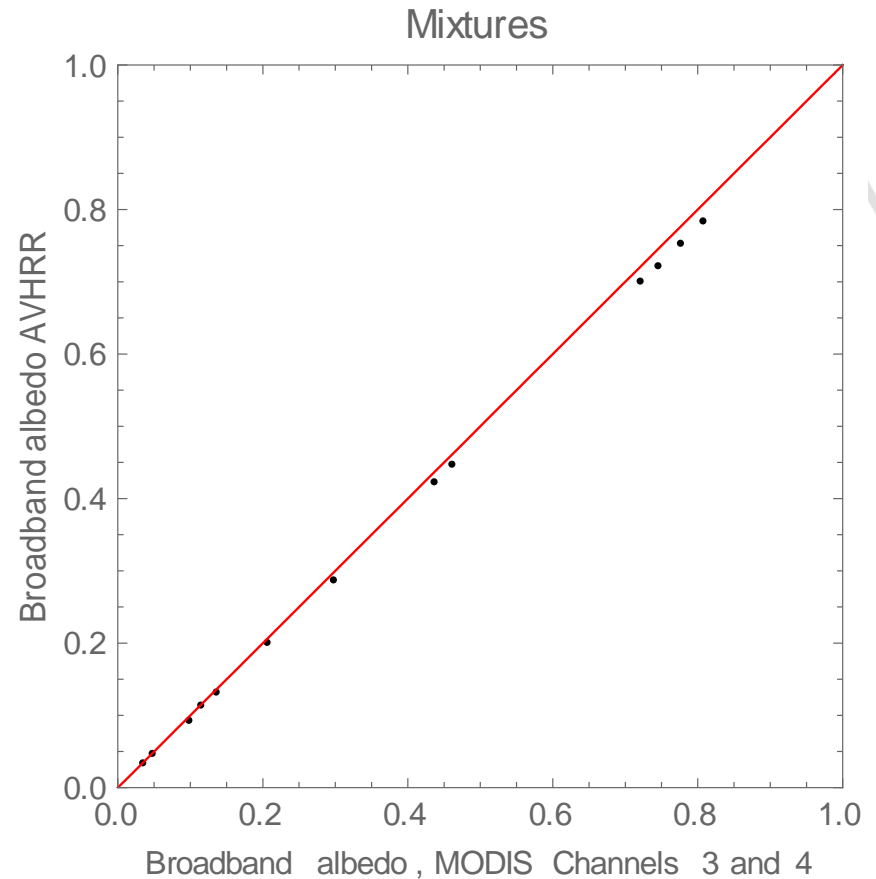
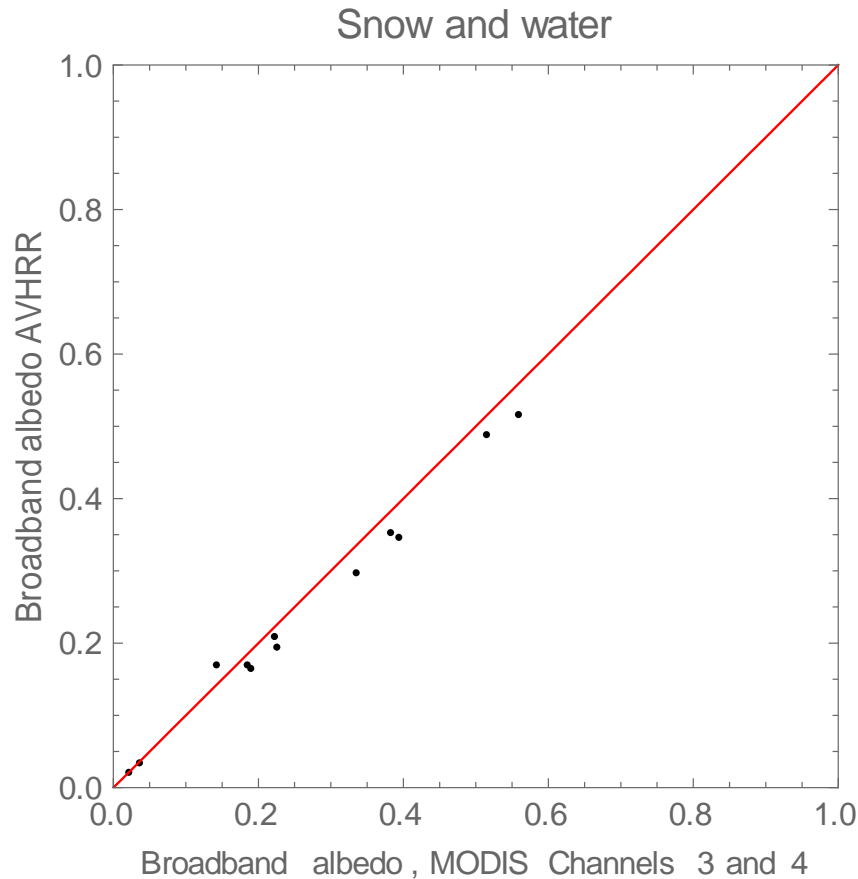
Bb-conversion by Liang et al. 2003





Simulation of broad band albedo for various targets from USGS spectral lab in MODIS and AVHRR bands

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