MODIS Surface reflectance product early results

E. Vermote

MODIS Surface Reflectance Product early results

1)MODIS surface reflectance composite, NDVI, EVI

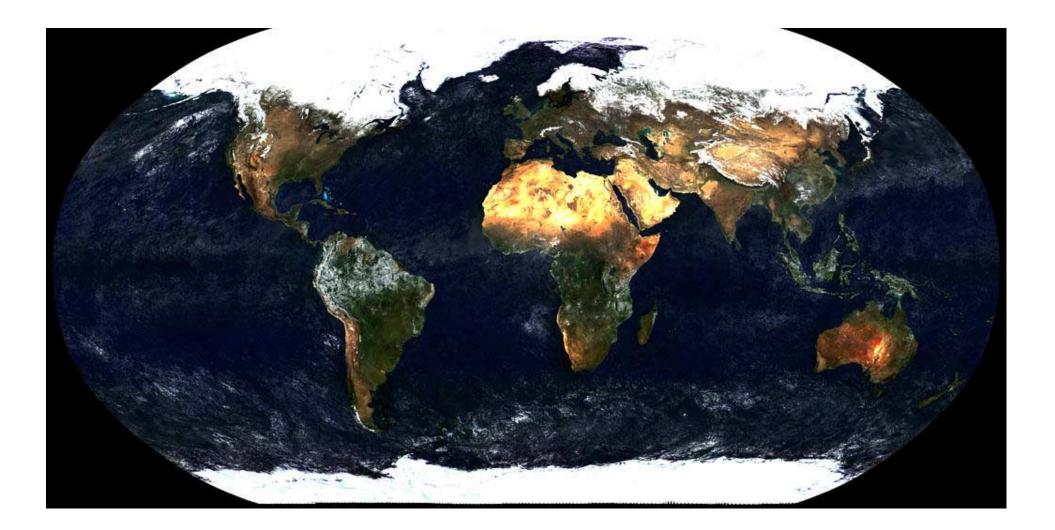
2)MODIS, AVHRR data comparison

3)MODIS land aerosol correction results

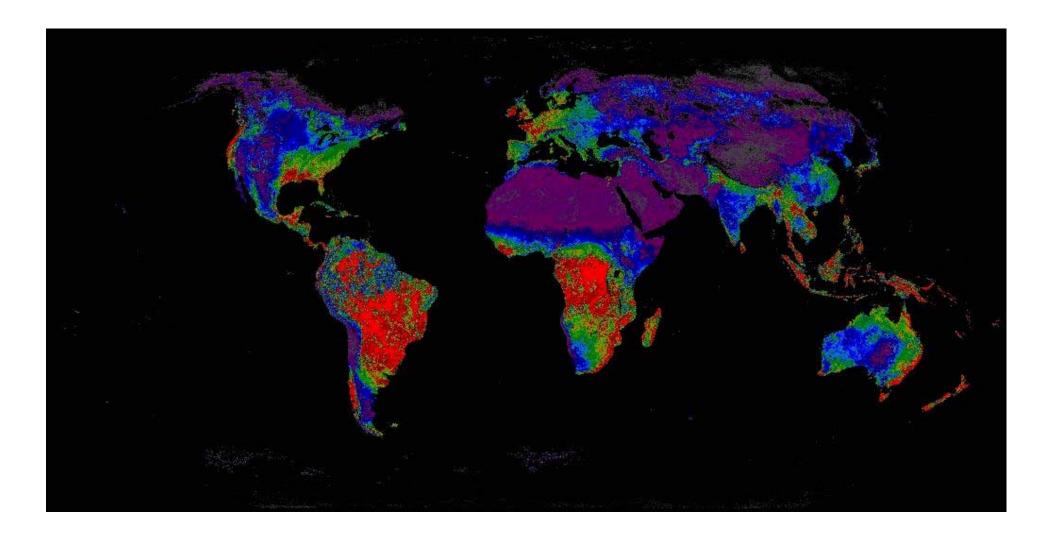
4)MODIS middle infrared surface reflectance prototype (F. Petitcolin)

5)MODIS electronic Xtalk evaluation for at launch and operational Itweak/Vdet configuration, band 5,6,7 surface reflectance implications

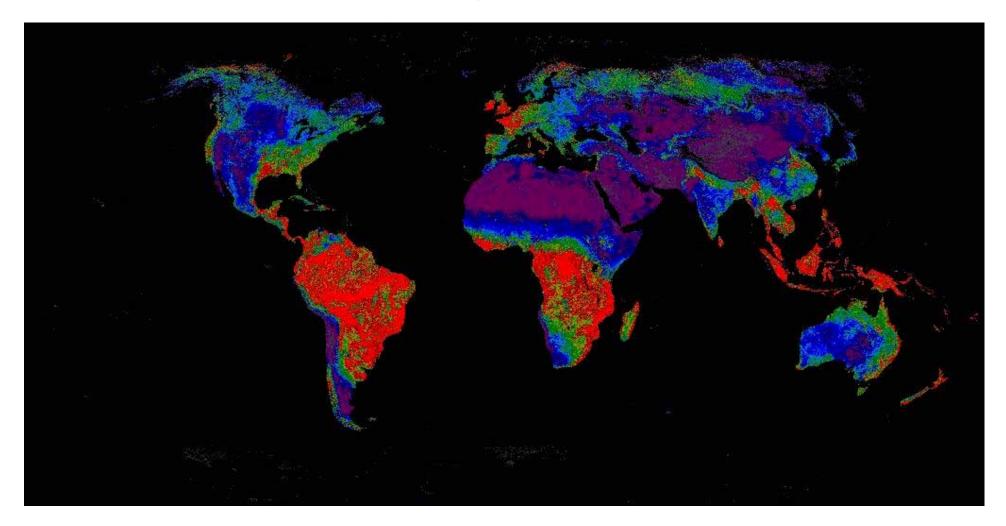
MODIS Surface Reflectance composite (Minimum band 3) March 17,2000 to April,10,2000 Red=Band1(670nm),Green=Band4(555nm),Blue=Band3 (470nm)



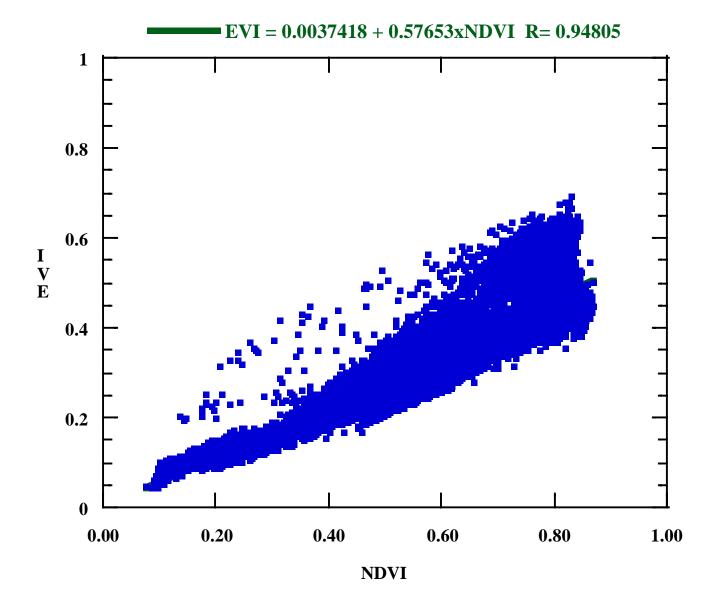
MODIS Surface Reflectance composite (Minimum band 3) March 17,2000 to April,10,2000 Normalized Vegetation Index (NDVI)



MODIS Surface Reflectance composite (Minimum band 3) March 17,2000 to April,10,2000 Enhanced Vegetation Index (EVI)



EVI vs NDVI over Africa (16.25N,18.31E;-4.84S,27.91E)



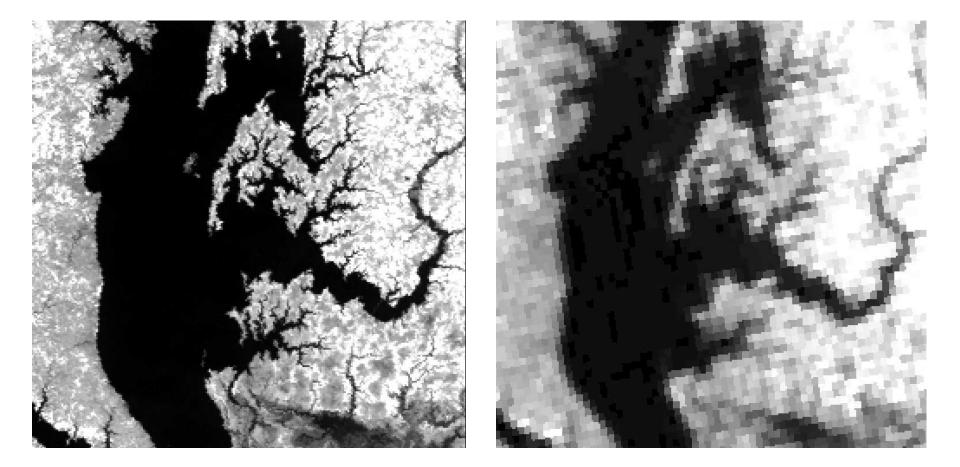
Comparison of MODIS 250m data (left side) with AVHRR (right side) 1km over the Chesapeake Bay



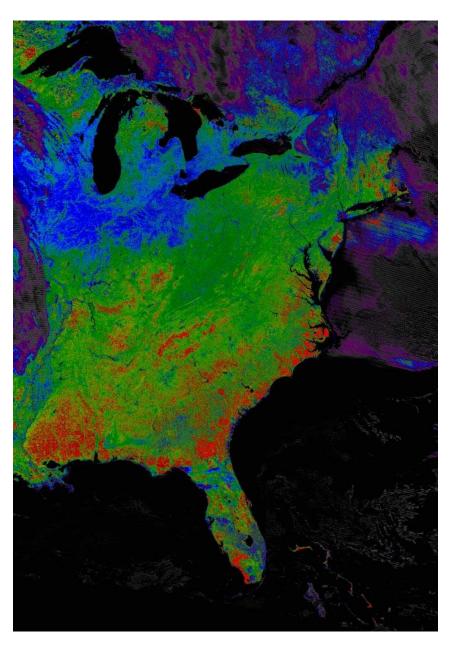
MODIS RGB R=670nm,G=555nm,B=470nm

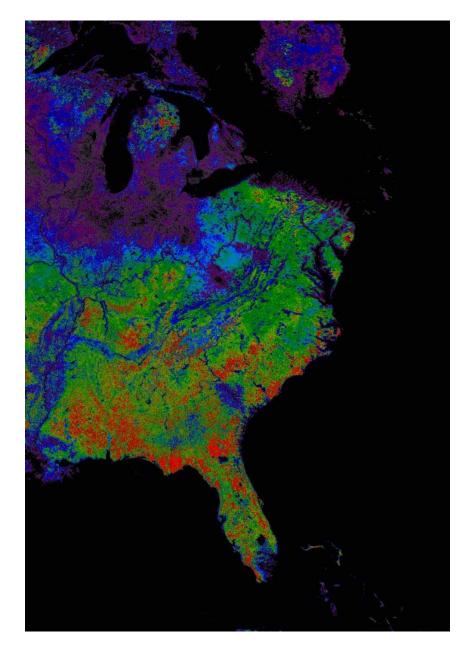
AVHRR RGB R=3750nm,G=870nm,B=670nm

Comparison of MODIS 250m data (left side) with AVHRR (right side) enlarged details from the previous scene in the near-infrared bands.

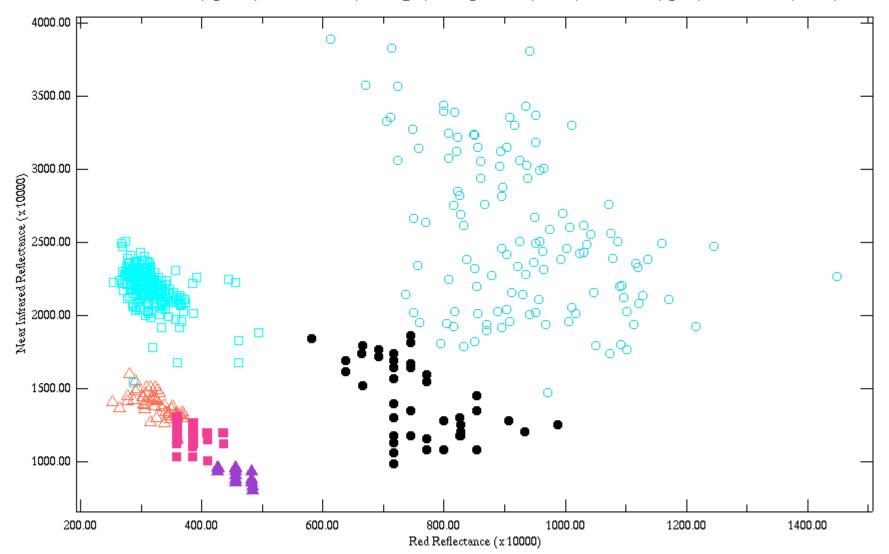


Comparison of the MODIS (left) and AVHRR (right) NDVI over the Eastern United States, color scales are adjusted to match respective dynamic range.

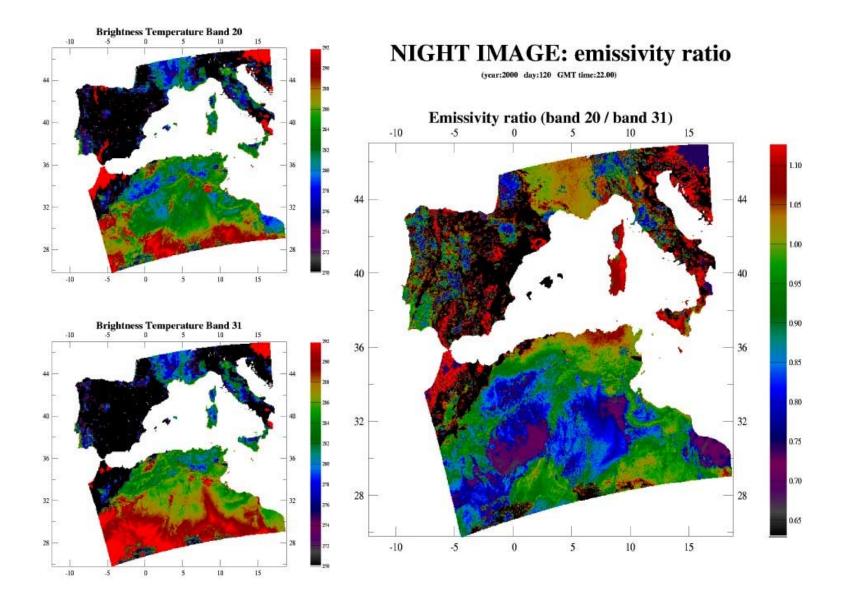




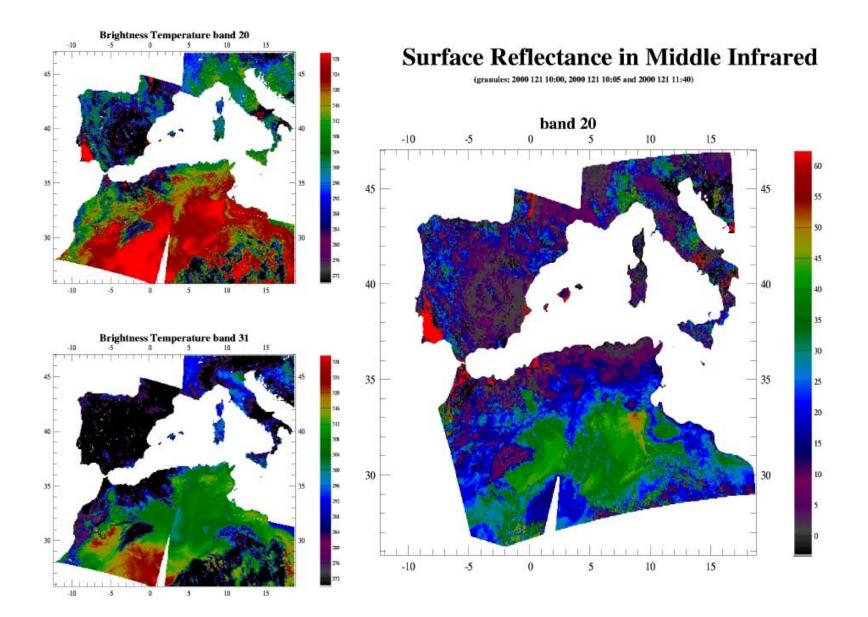
Comparison of MODIS and AVHRR red/near infrared reflectance for selected target over Eastern United States



Needleleaf (square), Broadleaf (Triangle), Croplands (circle) MODIS (open), AVHHR (filled)



Wed Jun 14 15:10:04 2000 Francois Petitcolin, UMD NASA-GSFC.



Wed Jun 14 11:19:10 2000 Francois Petitoolin, UMD NASA-GSFC.