

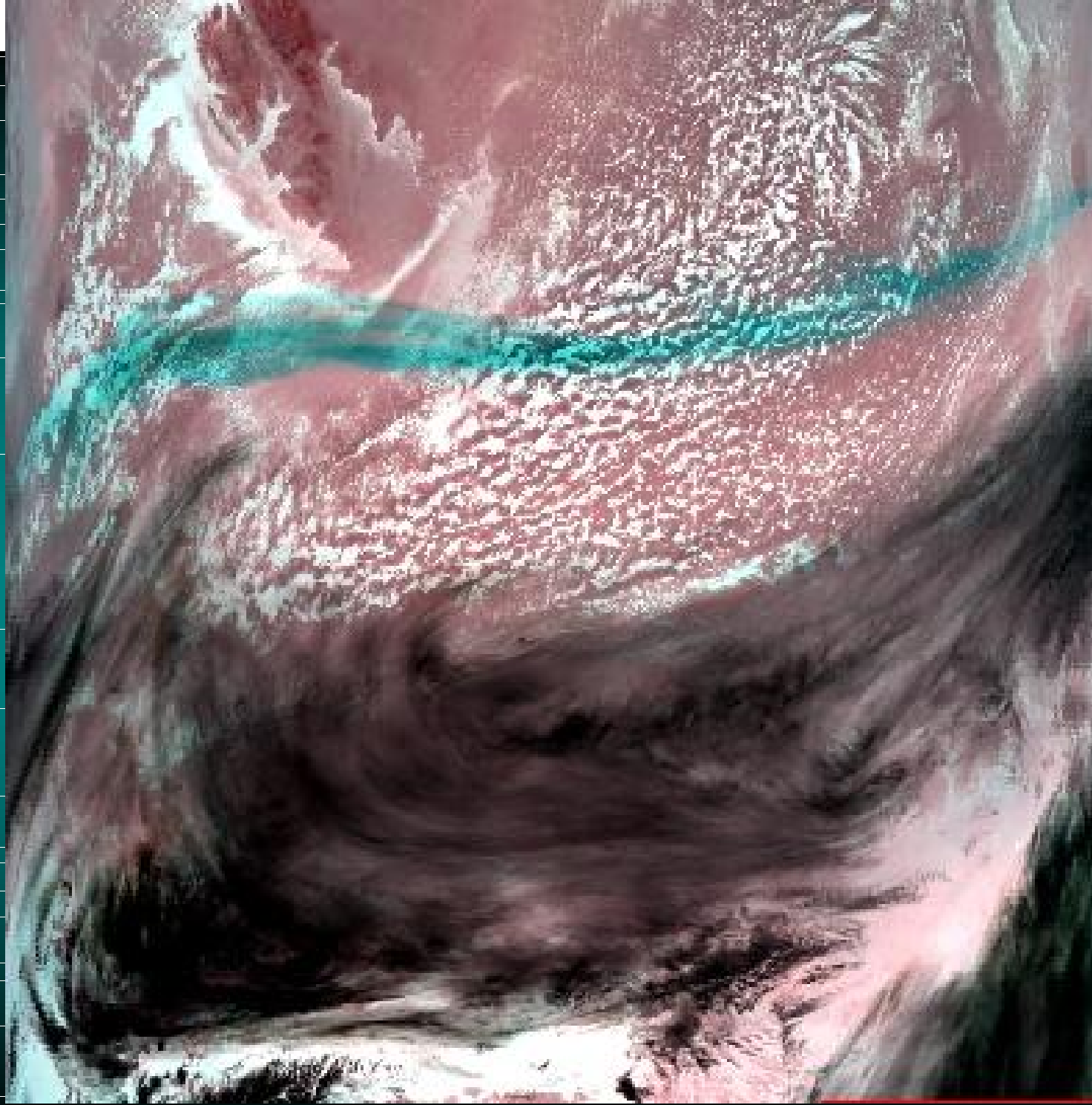
MODIS Atmosphere Group Summary

- Collection 5 Status
 - ∅ Summary of modifications and enhancements in collection 5 (mostly covered in posters)
 - ∅ Ready to commence in early April
 - ∅ Identified enhancements identified for collection 6
- Data Use/Validation Investigations
 - ∅ 25 presentations
 - ∅ New uses of MODIS data
- Direct Broadcast
 - ∅ Exploding use of MODIS data worldwide
 - ∅ New software planned for AIRS and MODIS data this year



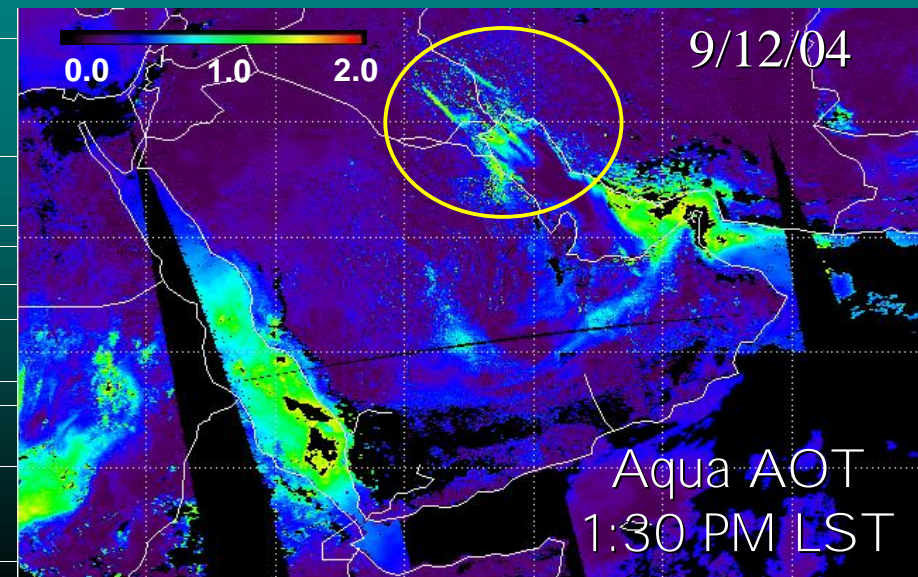
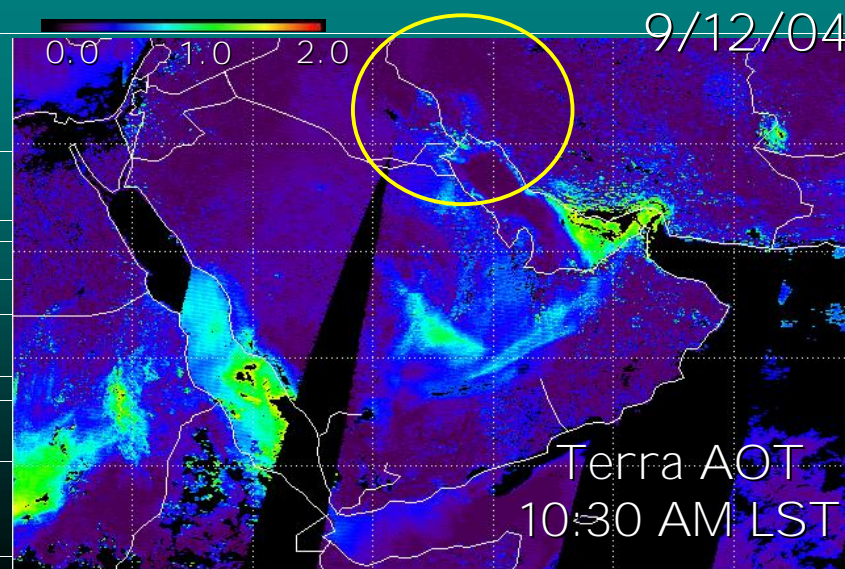
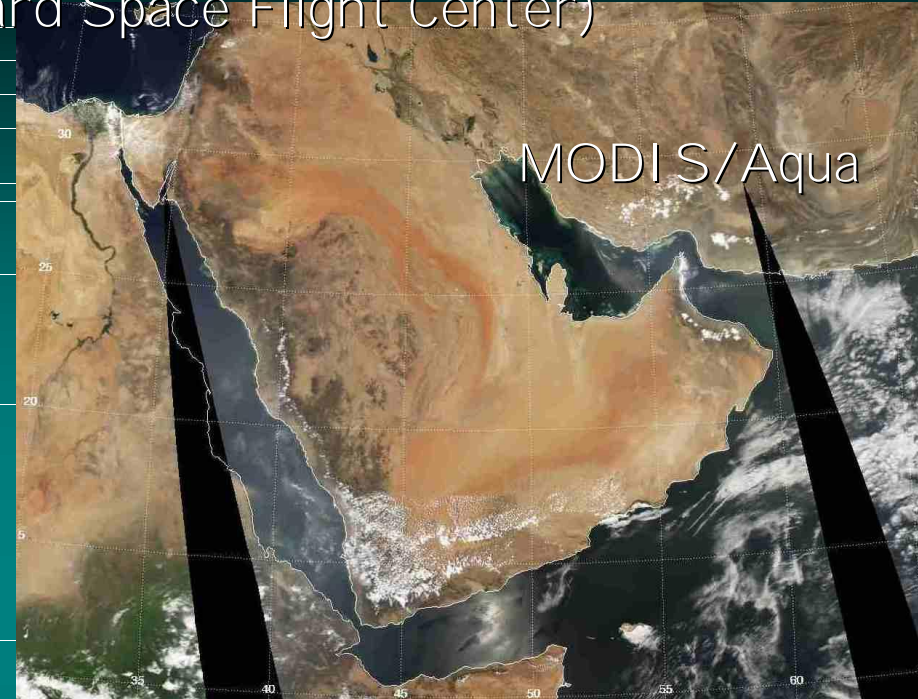
Collection 5 Software Updates

- All Software has been delivered to SDST/MODAPS
 - ◊ Science test 4 completed Monday
 - ü Major enhancements in cloud mask (especially nighttime and polar regions)
 - ü Cloud product uses new ice crystal libraries, better phase determination, atmosphere/land surface reflectance product, improved atmospheric correction, uncertainties in cloud optical thickness, effective radius, and water path, and improved cloud top pressure (especially for low clouds)
 - ü Aerosol product uses new spatial variability to improve screening of heavy aerosol and clouds, better regional characterization of aerosol optical properties
 - ü Water vapor over high dry regions, like Tibet, improved in near-infrared algorithm
- Collection 6 enhancements identified for aerosol, including new Deep Blue algorithm for bright desert regions



Tracking Movements and Evolution of Aerosol

(Christina Hsu, Goddard Space Flight Center)



Miscellaneous Progress

- Direct Broadcast exploding internationally
 - ∅ New software at Wisconsin will incorporate MODIS cloud, snow, reflectance, and BRDF products, AMSR-E precip, and high resolution AIRS/MODIS analysis in 2005
 - ∅ Kenya has a direct broadcast receiving station in Malindi
 - ü Data received on ground and sent by tape to Rome
 - ü Unknown facility by NASA or Wisconsin/I MAPP group
- Applications
 - ∅ IDEA project (NOAA/NASA/EPA) use of MODIS data and PM2.5 to input into air quality monitoring in US
 - ∅ MODIS polar winds being used by ECMWF, GMAO, NCEP (June), Japan, and Canada
- Modeling activities
 - ∅ Several data assimilation and modeling investigations described that are showing great progress