MODIS Team Break-Out: Wed. PM

- Opportunity for Terra/Aqua A.28 Science Data Analysis investigators to discuss their projects and use of datasets (11 presentations)
- Atmosphere SIPS overview (Liam Gumley) + discussion
  - Responsibilities, capabilities
  - L1 production at SIPS along with existing Intermediate File Format (IFF) files
  - L2 delivery/testing logistics
  - L3 discussion

AGENDA
Atmosphere Team Breakout Session
Wednesday May 20, 2015
Sheraton Silver Spring Hotel

MODIS Science and Data Analysis Presentations: Only lead authors shown. Leave ample time for questions. Emphasize any concerns/questions regarding the use of MODIS or other satellite products.	
"The Coupling of Convection, Large-Scale Atmospheric Dynamics, and Sea-Surface Temperature Hot Spots as Characterized by MODIS, TRMM, and ECMWF-Interim Reanalysis Data", Terry Kubar	1:30-1:45
"Insights gained by organizing MODIS joint histograms into cloud regimes", Lazaros Oreopoulos	1:45-2:00
"Marine Boundary Layer Cloud-top-height from MODIS, CALIPSO and COSMIC Over Subtropical Eastern Oceans", Feiqin Xie	2:00-2:15
"Characterizing bias in MODIS effective radius products for liquid water clouds through retrieved optical thickness variability across scattering angle: a MODIS+MISR approach", Larry Di Girolamo	2:15-2:30
"Assessing the impact of small scale heterogeneity in MODIS liquid water cloud retrievals", Zhibo Zhang/Frank Werner	2:30-2:45
"Differences in penetration depth for MODIS and RSP spectral ice cloud effective particle size retrievals", Bastiaan van Diedenhoven	2:45-2:55
"MODIS Collection 6 ice model assessments with POLDER and CALIOP", Ping Yang	2:55-3:05
Break	3:05-3:30
"MODIS IR optimal estimation retrievals of ice cloud properties and uncertainties ", Chenxi Wang	3:30-3:45
"Pixel-scale assessment and uncertainty analysis of AIRS and MODIS ice cloud optical thickness and effective radius", Brian Kahn	3:45-4:00
"Effect of cloud fraction on near-cloud aerosol behavior based on MODIS and CALIPSO observations", Alexander Marshak	4:00-4:15
"Issues impacting the study of long-term aerosol forcing trends", Jianglong Zhang	4:15-4:30
MODIS/VIIRS Data Continuity (to be continued in Th. afternoon breakout)	
"Overview of the Atmosphere Team SIPS at the University of Wisconsin/SSEC", Liam Gumley	4:30-5:00

VIIRS Atmosphere Break-out: Th PM

Talk by Bo-Cai Gao on cirrus reflectance product

Moved then towards team issues. Where we are at this time:

- SIPS is working with every team at this point
- Official L1B soon available for M/I/DNB bands
- Need to test new 6-minute granules and transition by end of the year
- Provide feedback to Fred Patt and Vincent Chang

MODIS-VIIRS Cloud Mask (MVCM)

Steve Ackerman/Rich Frey will provide to the team

Questions remain as to how best to package this and how to "freeze" a version for a team that is going operational

VIIRS Team Break-Out (cont'd)

Product delivery discussion

- wait until all products are ready or submit when ready?
- discussed staged delivery strategy to LAADS

Level-2 and Level-3 strategy

- Supply Level-3 product(s) that best suit their community
- As more products become available, the teams will collaborate to prepare joint Level-3 products
- Archived L3 files need to be accompanied by MODIS files produced using the same aggregation choices (if different)
- Suggestion made to provide 3-hourly gridded Level-2 products for forecast model users

Also some discussion of an intermediate Level-2 gridded product that would contain subset of data and parameters, including perhaps some model data

VIIRS Team Break-Out (cont'd)

Evelyn Ho discussed ESDIS data format and metadata

- ESDIS-acceptable data formats include netCDF4 and HDF5
- Addressed concerns by the teams regarding metadata requirements

Arlindo da Silva provided information on GMAO products that could be adopted for forward and historical processing: FP-IT [Forward Processing for Instrument Teams] and MERRA-2 [available in a few weeks]

Recommendation for SIPS to provide both products as well as the NOAA Climate Forecast Model Reanalysis (CSFR)

VIIRS Team Break-Out (cont'd)

Anticipate SNPP project funding for a VIIRS radiance simulator. Research version developed by Ping Yang and colleagues. Will be able to simulate aerosol and cloud radiances. Team members will interact with Ping on this.

While ATBDs need to be developed and reviewed, questions remain as to template, schedule, review, etc.