The Status of Terra MODIS Data Products for the CEOP

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Second Annual CEOP Meeting, Geneva, September 16, 2008

Summary of MODIS Status

- The MODAPS project at GSFC will provide data to CEOP using the standard MODIS HDF-EOS format
  - The code to convert the data to the standard CEOP format is being generated by JAXA
  - This code has not yet been tested using test MODIS products from MODAPS
- MODAPS will generate and archive the MODIS products for Observation Periods 3 and 4 as soon as the CEOP is ready to receive them
  - It will take MODAPS 3-4 weeks to generate all of the Terra products
  - There are still concerns about the volume of the MODIS products

MODIS Dataset Production Plan in FY2008 by JAXA

Product	Product Name	Regions	Volume (GB/day)
MOD021KM	L1B Calibrated Radiance 1km	R	0.42
MOD02HKM	L1B Calibrated Radiance 500m	R	0.42
MOD02QKM	L1B Calibrated Radiance 250m	R	0.32
MOD04_L2	L2 Aerosol	R,M	0.03
MOD05_L2	L2 Total Precipitable Water Vapor Test Results	R,M	0.2
MOD06_L2	L2 Cloud Product	R,M	0.96
MOD07_L2	L2 Joint Product of Profiles, Total Column Ozone, Water Vapor and Stability Indices	R,M	0.37
MOD08_D3	L3 Daily Joint Aerosol/Water Vapor/Cloud Product	M,G	0.11
MOD08_E3	L3 8-Day Joint Aerosol/Water Vapor/Cloud Product	M,G	0.02
MOD08_M3	L3 Monthly Joint Aerosol/Water Vapor/Cloud Product	M	0.002
MOD09GHK	Daily Surface Reflectance L2G Global 500m	M	5.37
MOD09GQK	Daily Surface Reflectance L2G Global 250m	M	6.04
MOD09GST	Daily Surface Reflectance Quality L2G Global 1km	M	1.7
MOD10_L2	L2 Snow Cover	R	0.003
MOD11_L2	Land Surface Temperature/Emissivity5-min L2 Swath 1km	R	0.006
MOD15A1	Leaf Area Index/FPAR Daily L4 Global 1km	M	0.06
MODATML2	L2 Joint Atmosphere Product	M	0.07
TOTAL			16.091

Summary of Terra MODIS FY2008 Production Plan

- Product Volumes
  - Total Data Volume for EOP-3 (2002/10/1 - 2003/9/30) = 5.8 TB
  - Total Data Volume for EOP-4 (2003/10/1 - 2004/12/31) = 7.2TB
  - Total Terra Data Volume planned = 13 TB
  - The 4 products MOD06_L2, 09GHK, GQK, and GST constitute 87% of the total data volume planned
    - These products should be considered for parameter (SDS) sub-setting
    - MOD06_L2 includes 53 parameters
    - MOD09GHK includes 20 parameters
    - MOD09GQK includes 10 parameters
    - MOD09GST includes 6 parameters
    - The file specifications for each product which identify these parameters can be found at the anonymous ftp site: ftp://modular.nascom.nasa.gov/pub/LatestFilespecs/

MODAPS Production Plan

- MODAPS will start MODIS data production for EOP-3 and -4 when testing with the University of Tokyo is complete
  - MODAPS is suggesting adding the reference site name or the name of the monsoon region to the product filename
  - MODAPS is suggesting mosaicing the daily granules for each reference/monsoon site
- MODAPS will archive the geographically sub-setted and global products in the LAADS archive that is used as the permanent archive for all MODIS L1 and atmosphere products
  - The CEOP can obtain the products by direct access to the LAADS archive at ladsftp.nascom.nasa.gov
  - CEOP can draw the data down at whatever rate the network and the University of Toyko data system will allow