



MODIS STATUS

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<http://www.gsfc.nasa.gov/MODIS/MODIS.html> [MODIS]

picasso.oce.orst.edu/users/jasmine/MODP [code, in-situ data]

opp.gsfc.nasa.gov/html/ [ocean productivity]

<http://www.gsfc.nasa.gov/bsb/oceans> [production page]

earthobservatory.nasa.gov/ [overview of EOS]



TERRA (AM-1) Launch

- Use of Centaur upper stage on hold pending performance analysis.
- Earliest Terra launch is not before 11/23/99.
- Echostar launch 9/13, UHFsat >9/27.
 - Both now unscheduled - Hurricane Floyd
- Commit to launch date may be possible in late September.
- Rocket is critical issue.
- Potential pad, crew conflicts are being worked.



MODIS INSTRUMENTS

- PFM on Terra, awaiting launch.
- Visible and Near IR bands are in great shape.
- Known electronic problem (IR) was fixed successfully.
- Recalibration of PFM IR was not pursued - risk to launch date.
- No assurance that AM-1 will meet SST accuracy requirements - no assurance that it will be better than AVHRR SST.
- FM-1 (Flight Model 1) has undergone T/V testing.
- Shipment to TRW for PM -1 integration is pending analysis of T/V results re: digitizers, SST, band registration.



Data Processing

- Goddard DAAC role
 - Level 1a, 1b [100%, global].
 - Archive L0, 1b, 2, 3 from DAAC and MODAPS.
 - Distribution of data will be limited at launch
 - Production, archiving severely limited with House budget.
- MODIS (MODAPS)
 - Level 2-4 Land, Ocean, Atmosphere streams.
 - Limited capacity (50% yr 1, 75% yr 2, 100% yr 3).
 - Ability to validate data products is driver.
- Production testing is underway in MODAPS.
- Operational Readiness testing (MOSS-3) end of September.



Post-Launch Ocean Allocations

- Capacity of MODAPS to process data is being defined within the test schedule - timing runs, transfer capacity.
- Ocean approach is to subsample at level 2 (if necessary) to produce global daily outputs of all geophysical products.
- DAAC ability to ingest and archive will also be limited at launch, due to ECS software (automated ingest routines).
- MODIS Ocean Team and DAAC user services have developed a prioritization for early archive and distribution of ocean data.
- Improved services, capacity was expected >L+6 months, now considerably later.
- Budget decreases under consideration - product limitations.



Data Archive Plans, in Progress

- MODAPS full ocean production ~ 230 GB/day
- Expected at-launch archive rate ~ 70 GB/day
- Archive all Level 3 and Maps at 4.6, 36, 1deg and daily, 8day, monthly periods (~50 GB).
- Archive Level 2 (1 km nadir) (~20 GB) for:
 - Coastal NA
 - Cal/Val Sites
 - Major Process Studies
- Provide limited-period access for L-2 to SIMBIOS at MODAPS, or GDAAC.



MODIS OCEAN VALIDATION

- October '99 MOCE Cruise will proceed, in support of algorithm validation and SeaWiFS.
- Plans for post-launch initialization cruise are tentative pending successful launch.
 - Window to enable an April '00 cruise is closing rapidly.
 - September 00 is the next option.
- Early validation data will be obtained from:
 - MOBY & MOBY Servicing Cruises
 - Validation Affiliates
 - SIMBIOS Investigations.



MODIS Meetings

- MODIS Instrument Team Meeting
 - At GSFC, November 3-4??, 1999, limited.
- MODIS Ocean Group Meeting
 - In conjunction with MIT mtg, TBD.
- PM-1 Science Working Group Meeting Oct 15.



SPECIAL EVENT IMAGER

W. Esaias, C. Brown

- NASA HQ (9/9) encouraged GSFC to finalize joint plans with NOAA for SEI/VOLCAM as an Earth System Science Pathfinder (ESSP) mission for GOES O.
- Joint decision to proceed expected early October, 1999. Level of support TBD.
- Discussions underway with NOAA, NASA to plan science/application team approach.



Bridging the Gap to NPOES

- Enhanced VIIRS is being studied by the two VIIRS Contractors for “bridge” mission (NPOES Preparatory Project **NPP**).
- NASA would provide s/c, ATMS, mission, science data processing as a follow-on to Terra, PM-1.
- IPO would provide an enhanced VIIRS, CrIS, operations.
- IPO VIIRS Operational Algorithm Team has agreed to NASA suggested requirements changes to improve VIIRS.
- Dual, competitive VIIRS procurement, prior to ‘down select’ in spring 2000, means instrument, algorithms are competition sensitive.
- Interim Science Steering Team appointed, has recommended early selection of a VIIRS Instrument Team.