MODIS Land
Collection 5 Processing
Status and Schedule

MODIS Science Team Meeting
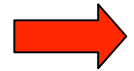Land Breakout Session

Robert Wolfe
Oct. 31, 2006

Terra Collection 5 Science Tests

- **Testing started Nov. 2004**
  - 15 tests (5 major tests – global and long time-series)
  - Rigorous testing with LDOPE and ST evaluation
  - Very good support by the MODIS Science Data Support Team – both algorithm integration and producing the test data sets (including baseline)
- **Almost all issues uncovered**
  - But … 8 PCRs approved since beginning of first reprocessing

C5 Reprocessing Schedule

June 30, 2006	Started C5 Land Terra-only reprocessing
Sept. 8, 2006	Restarted C5 Land Terra only reprocessing (@ ~3.6x)
Dec. 1, 2006	Complete year 2000 of C5 Terra only reprocessing
Jan. 1, 2007	Start C5 Land Terra, Aqua and Combined forward processing (@ ~7.2x)
Mar. 12, 2007	Complete year 2001 of C5 Terra only reprocessing
Late-May 2007	Finish Terra-only reprocessing
Sept. 2008	End C5 reprocessing

C5 Schedule – Path to Forward Processing

- Release remainder of C5 Terra Land products
  - Released or ready for release :
    LSR, LAI/FPAR, VI, PSN/NPP, BRDF,
    LST, Fire
  - To be released:
    Sea-Ice – under review

    Snow – internal cloud shadow fix needed

    VCC/VCF, LCOV/LCC, Burned area – 1+ year of
    data needed
  - Some documentation still needs to be updated by ST
    for LP and NSIDC DAACs
- We need to complete C5 Aqua and Combined
  Products Science Testing, so we can …
- Start C5 forward processing on Jan. 1, 2006

C5 Aqua and Combined Science Testing

- A 16-day Terra and Aqua combined Global test started on 9/11/2006 and was completed on 9/30/2006
  - The test used the MODIS Terra and Aqua data from period 2003193-2003208
  - An additional 8-day of Aqua data starting day 2003185 was used to evaluate the phased production of VI
  - Snow and Sea-Ice were produced for data day 2003121-2003136
  - Used C5 Terra algorithms for all land products except snow and LAI/FPAR which had Aqua changes
  - Evaluation of result is currently on-going
- A 3-month 6-tile time series is being planned
  - Main interest is from LAI/FPAR, VI and Burned Scar

Issue – No Land C4/C5 Overlap

- Current plan is to have NO overlap between C4 and C5 forward processing
  - Calibration group (MCST) resources are being stretched to support two collections
  - Maintaining 4x (2x for C4 and 2x for C5) on forward processing system isn't feasible (no catch-up capability)
- So … users will need some guidance from ST on what to do in the interim period while C5 is being reprocessed