

# **C6 Science Testing and Reprocessing Schedule**

*Initial Update 03/22/2012: based on the initial proposed delivery of LSR by the SCF*

*Rev1 07/24/2012: slide 4 is revision of slide3 based on the current status of LSR delivery*

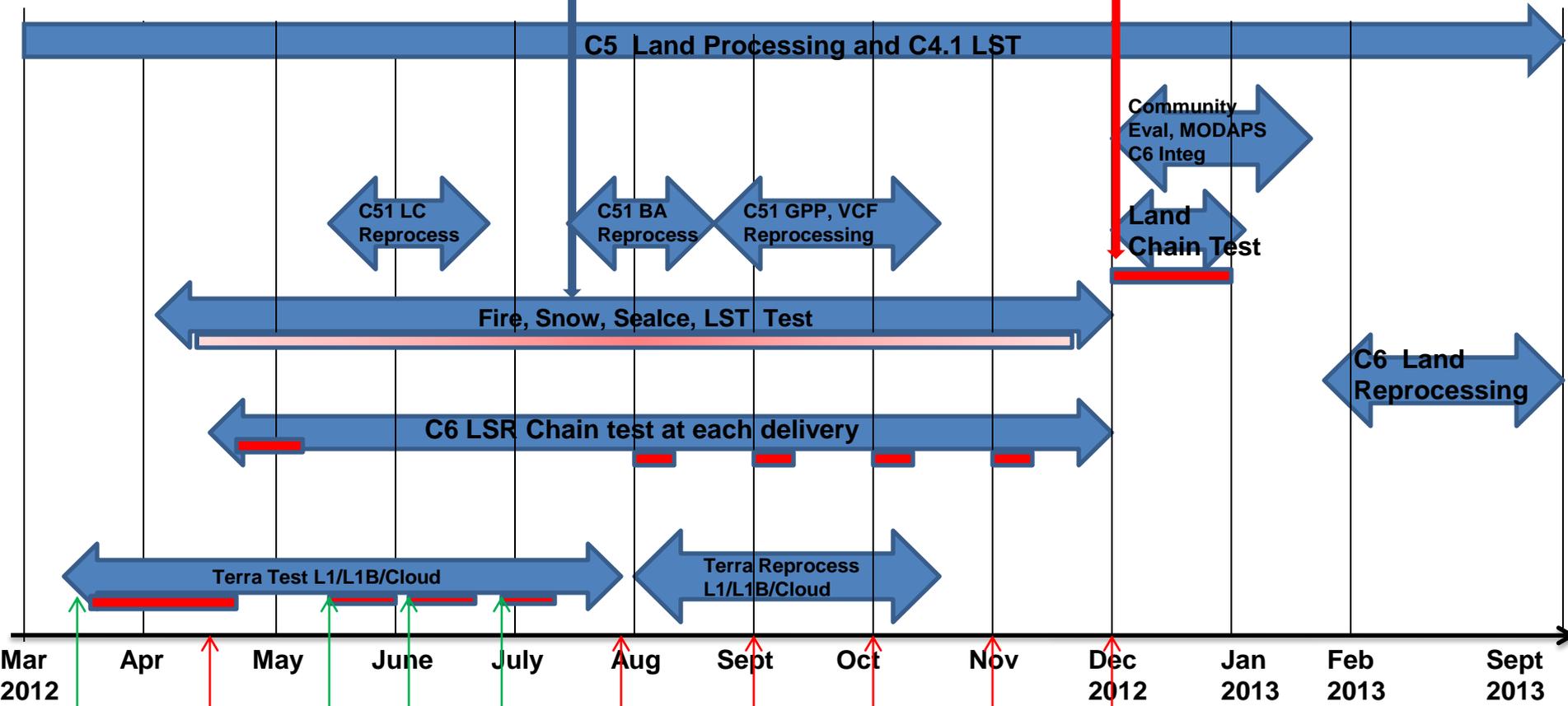
# Science Algorithm Update, Delivery and Test plan

- C5 (and C4.1 LST) processing will continue through the completion of C6 reprocessing and for another 6 months (or 1 year) after the completion of C6 reprocessing.
- C5.1 Reprocessing of BA, LC, GPP and VCF – *can run on mtvs8*
  - LC reprocessing completed in June 2012, BA reprocessing will be completed in Aug 2012, VCF and GPP reprocessing expected to be completed in Sept/Oct 2012
- Terra L1B Testing and Evaluation – *to finish by July 2012*
  - 4 month global time series test for verification of Calibration
  - 16-day global test (summer and winter periods) of C6 L1B and C5 Land PGEs
- Snow, Sea-Ice, and Fire
  - No major delivery expected. Minor updates either already delivered or expected in the next month
  - Algorithms can be tested independent of other Land deliveries and testing can start as soon as C1 L1B Terra testing is completed.
- LST
  - Expect to make at least 3 deliveries (includes new product)
  - All changes can be tested independently as the deliveries are made.
- LSR
  - includes major changes and ST will deliver every month with incremental changes.
  - Each delivery will be followed by a chain test of core dependent PGEs – LSR/VI/LAI/BRDF.
- VI, LAI/FPAR, BRDF, LC, VCF, GPP/NPP
  - Major delivery for VI and LAI/FPAR expected – all deliveries are to be done by MODAPS/LDOPE.
  - There may be minor algorithm updates that are PGE specific and not tied to LSR changes. These changes can be tested by small tests
  - All changes are expected to come in before the final delivery of LSR.
- Final Land Chain test will be done after the last LSR delivery in Sept. By this time all Land algorithms are expected to have their final delivery and included in this chain test for final evaluation.

# C6 Testing and Reprocessing TimeLine

Land Deliveries: PGE specific changes delivered.  
Small PGE specific tests run as required.

Final Land Delivery  
tuned to LSR changes



LSR Deliveries: Maximum 6 deliveries at beginning of the months, followed by 7-10 days for testing, 2 week for evaluation by LDOPE and STs, 1 week for algorithm update and next delivery

Terra L1B  
6.1.12.3

Terra L1B  
6.1.12.4  
6.1.12.5

Terra L1B  
6.1.14\_1

-  Test in progress. Dedicated resource required for this period (7-10 days)
-  No specific start date for the test known. Intermittent need for resources as the delivery comes in.

# Science Tests

## 1. Testing of Snow, Sea-Ice, Fire and LST

- Global chain Tests using two 16-day periods from Aqua and Terra.
- Production of each of these tests may take only 3-4 days.
- Science test results evaluated by LDOPE and ST. Evaluation can start only after the test has been finished.

## 2. Testing of Surface reflectance delivery

- Global chain Tests using two 16-day periods from Aqua and Terra.
- Test will include the LSR chain - LSR/VI/LAI-FPAR/BRDF-Albedo
- Each test production may take 7-10 days.
- Science test results evaluated by LDOPE and ST. Evaluation can overlap the production.
- All of the downstream will review the test result but will wait for the last significant delivery (may be August delivery) to fine tune their algorithm for the LSR changes. This change in downstream will come in the Sept delivery of land PGEs.

## 3. Testing of VI, BRDF, LAI/FPAR, GPP/NPP

- Global chain Tests using two 16-day periods from Aqua and Terra.
- Expect the baseline input to be available in advance, PGE specific tests will run the updated PGE only, production shouldn't take more than 2 days.

## 4. Final chain test and community evaluation.

- Test will generate all land products from 1-year of Aqua and Terra.
- Data will be released to public for evaluation.