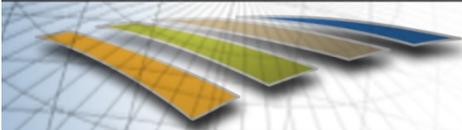




# Global Land Survey 2010 Status Report

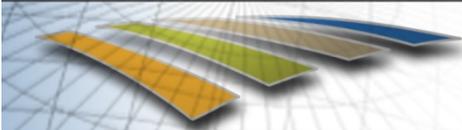
January 6, 2009

John Dwyer / Jeff Masek  
USGS EROS Center / NASA GSFC

Background

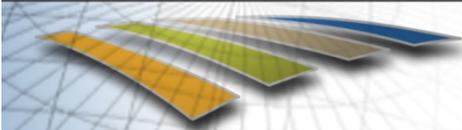
LDCM

- ◆ Global Land Survey (GLS) data for 1975, 1990, 2000, and 2005 have proven valuable to the research and applications community
- ◆ Planning for GLS 2010 is underway
  - ◆ GSL 2010 MOU has been signed by NASA and USGS
  - ◆ Landsat TM and ETM+ (no gap-filling) to provide global coverage to the extent possible, using standard L1T processing recipe
  - ◆ NASA will perform gap-filling of USGS ETM+ products
  - ◆ Leverage current Landsat routine collections
  - ◆ Augment routine Landsat collections via campaign stations
  - ◆ Participation by international data providers has been solicited through the CEOS Land Surface Imaging (LSI) Constellation Working Group on Regional Data Set Compilation (WGRDSC)

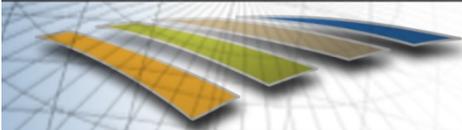
 Status

LDCM

- ◆ Telecon with WGRDSC was held Sept 9, 2008
  - ◆ Terms of Reference were reviewed and agreed upon
  - ◆ Consensus that regional datasets compiled from international assets should be made freely available
  - ◆ Defined candidate regions for which agencies should be asked to collect and contribute data
    - Brazilian Rain Forest south to Bolivia and Argentina, including parts of the Andes
    - Southeast Asia to include China, Vietnam, Laos, and Thailand
    - Africa (CBERS-2B)
- ◆ Formal solicitation for participation extended to CEOS LSI Constellation Study Team
  - ◆ Response received from Argentina (CONAE), Brazil (INPE), and JAXA
- ◆ NASA LULCC GLS Investigators meeting held Oct 28-29, 2008

 Status of Data Collection Planning**LDCM**

- ◆ Campaign Stations
  - ◆ Russia (Moscow, Irkursk, Magadan)
    - Letter of Agreement between USGS and Russia Forest Ministry/ScanEx has been sent to Russians for review
    - Collection windows are May 15 – Sept 30, depending upon solar elevation constraints on Landsat 5 solar panels and battery charging
  - ◆ South Africa
    - No longer a formal Landsat International Cooperator
    - Will collect during Feb 1 – June 1
  - ◆ Malindi (ESA)
    - Have agreed to collect May 1 – Aug 15 and Oct 15 – Feb 15
  - ◆ Chetumal
    - Formerly operated by DLR but now they only provide technical support
    - Need to identify and work with a Mexican government sponsor agency
- ◆ Need to estimate level of effort and funding needed for USGS to receive and archive campaign station data for later processing



# GLS 2010 Work Breakdown

**LDCM****TASK DESCRIPTION****DATE****AGENCY****Landsat-5 IC Coverage**

1. Obtain commitments from IC stations for contribution of L5 data to GLS2010	Complete	USGS
2. Request browse and metadata from some/all IC stations for 2009-2010 period	October-10	USGS
3. Ingest IC browse/metadata for 2009-2010	December-10	USGS
4. IC scene selection (see below) - assemble list of IC scenes required from each station	June-11	NASA
5. Request IC Level 0 images	June-11	USGS
6. Ingest and archive IC L0 data complete	August-11	USGS

**Landsat-5 Campaign Coverage**

1. Arrange campaign seasons for Malindi, S. Af.	February-09	USGS
2. Fund ScanEx stations	February-09	NASA
3. Operations ongoing Malindi, S Af., Russia Feb09 - Oct10	December-10	IC
4. Ingest data from campaign stations	December-10	USGS





# GLS 2010 Work Breakdown

**LDCM****Scene Selection**

- |   |            |      |
|---|------------|------|
| 1. Send metadata and browse for L7, L5 data <50%<br>CC (including IC, Campaign) to GSFC | January-11 | USGS |
| 2. LASSI scene selection complete   | June-11    | NASA |
| 3. Send final list of SceneIDs for processing to<br>EROS                                | June-11    | NASA |

**Data Processing**

- |   |              |      |
|---|--------------|------|
| L1T product generation (Feb2011-Sept2011)     | September-11 | USGS |
| L7 L1T gap-filling and radiometric correction | September-11 | NASA |

**Data Distribution**

- |   |             |      |
|---|-------------|------|
| GloVIS interface changes to accommodate GLS2010   | February-11 | USGS |
| IC USB/Firewire hard drive media and distribution | February-11 | USGS |



