Landsat Project

Update for the Landsat Science Team

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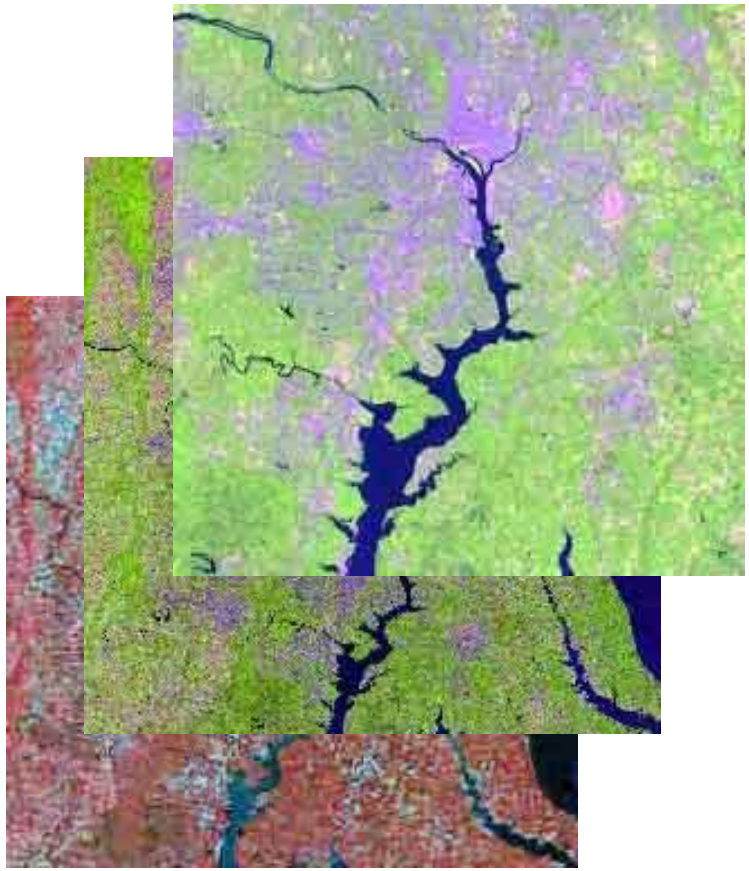
U.S. Geological Survey

U.S. Landsat Archive Overview
(Scenes through 30 April 2007)

- **ETM+: Landsat 7**
  - 715,503 scenes
  - 664TB RCC and L0Ra Data
  - Archive grows by 260GB Daily
- **TM: Landsat 4 & Landsat 5**
  - 696,078 scenes
  - 349TB of RCC and L0Ra Data
  - Archive Grows by 40GB Daily
- **MSS: Landsat 1 through 5**
  - 649,417 scenes
  - 19TB of Data



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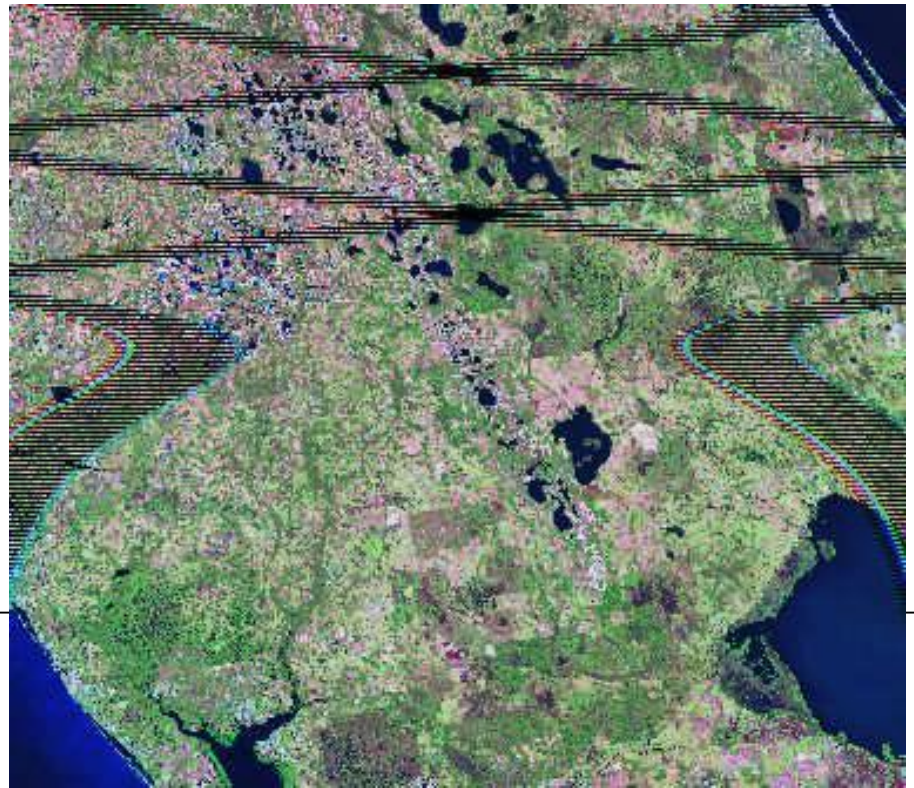
Landsat 7 Bumper Mode

- **Planned normal bumper wear**
- **Requires update of calibration files**
  - Changed rate of movement
- **No impact for the U.S. user community**



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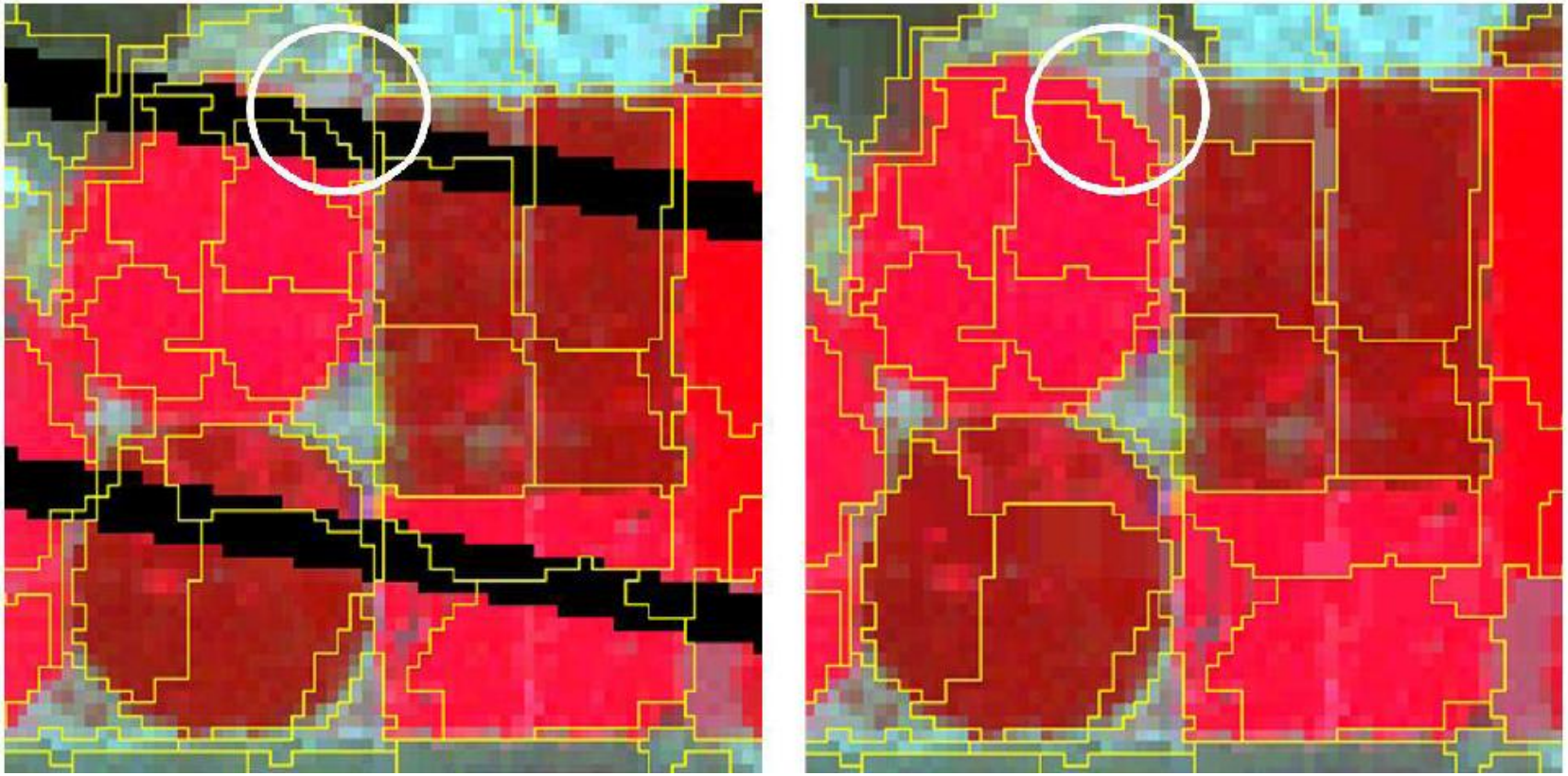
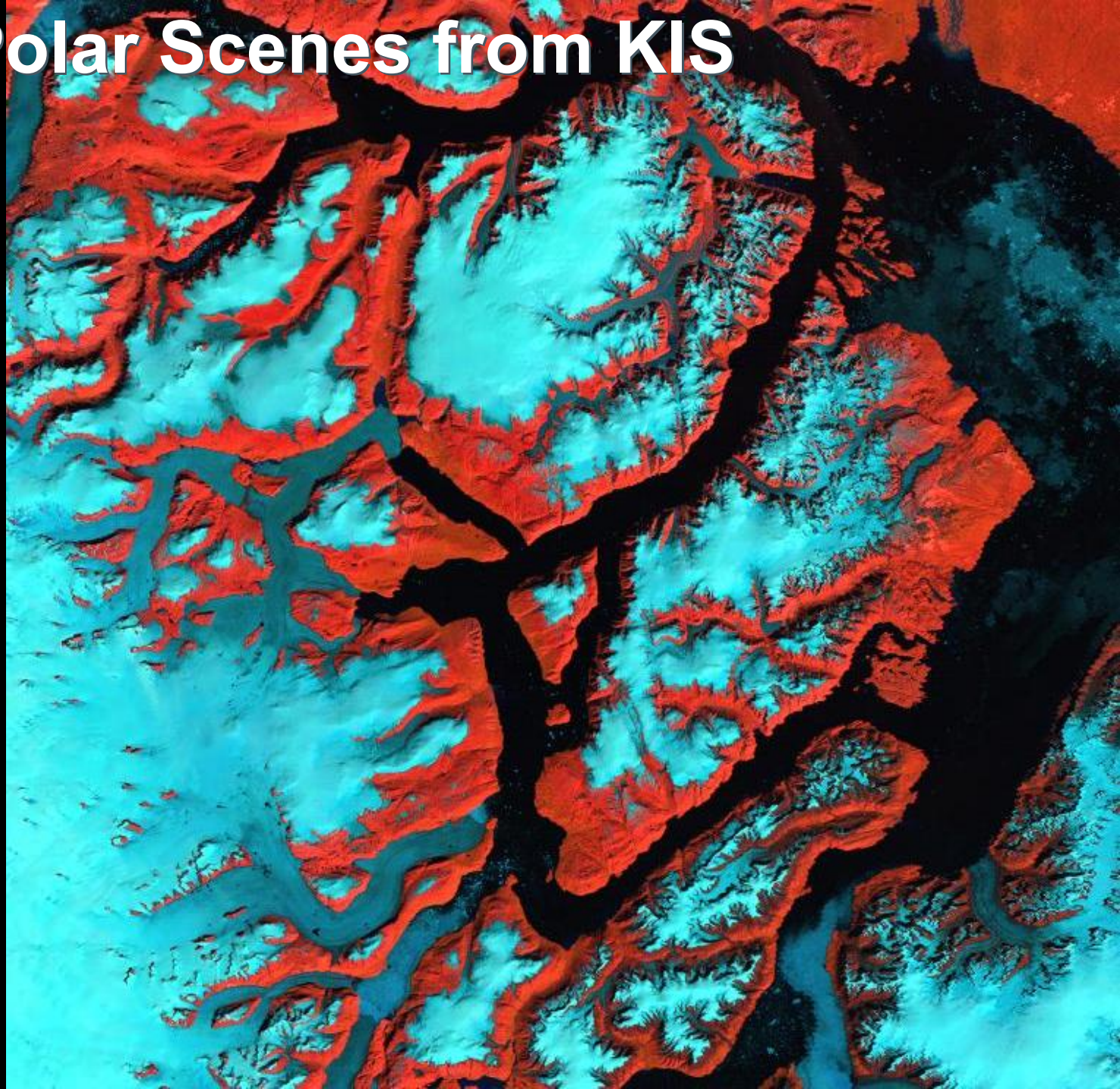
Closeup of Segment-Based Gap-Fill



Adapted from Maxwell *et al*., in print.

New L5 Polar Scenes from KIS



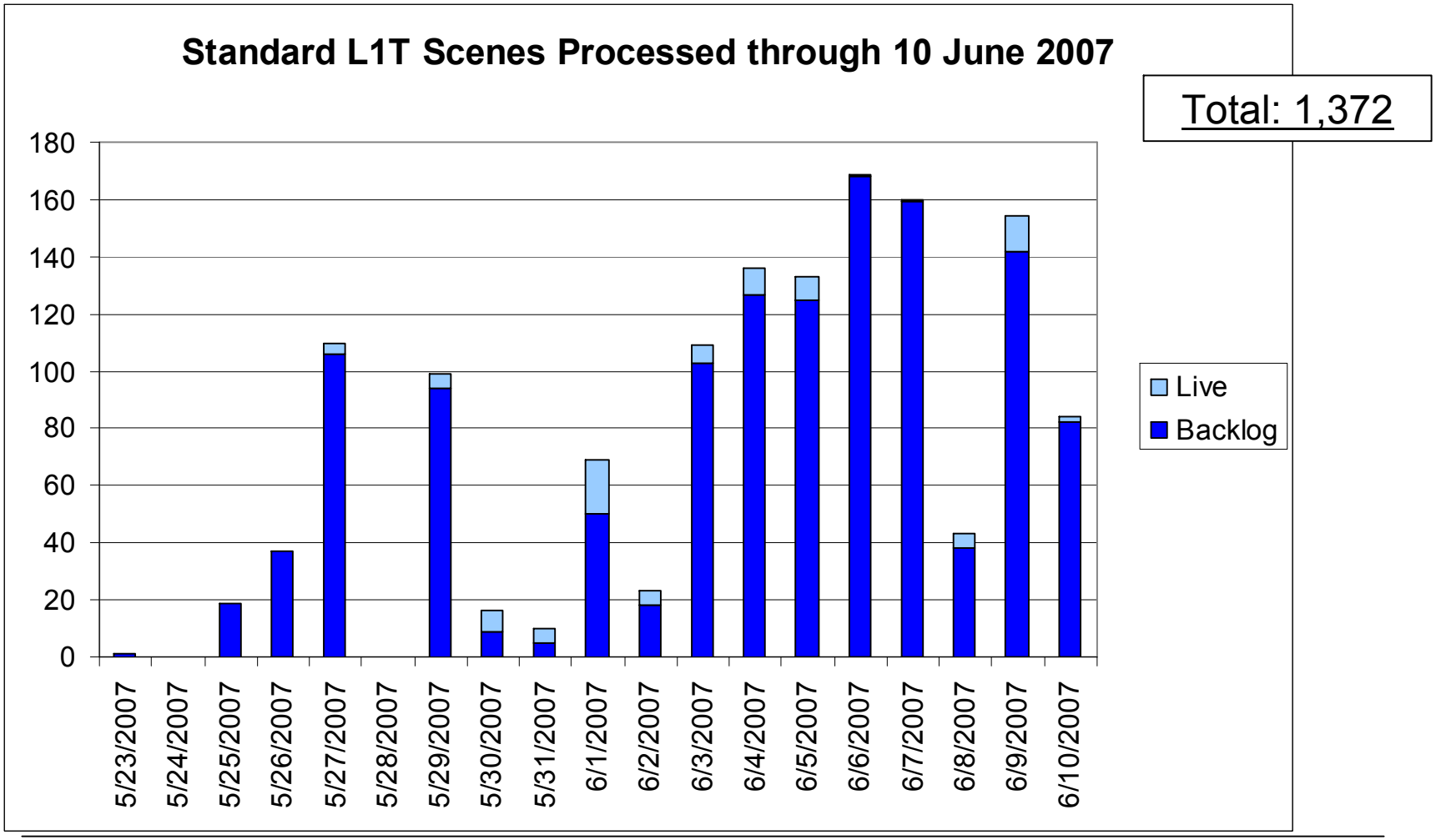
P 229, R 10
18 July 2006

Looking to LDCM: Standard L1T

- **Pilot Data Set**
  - US only – includes Alaska, Hawaii, and territories
  - L7 ETM+ SLC-off only – 2003 to present (and ongoing)
  - < 10% cloud cover, 9 quality

- Pixel size: 14.25m/28.5m/28.5m
- Media type: Download (web-enabled), CD/DVD ($50)
- Product type: L1T (terrain-corrected)
- Output format: GeoTIFF
- Map projection: UTM
- Orientation: North up
- Resampling: Cubic convolution

Standard L1T Pilot



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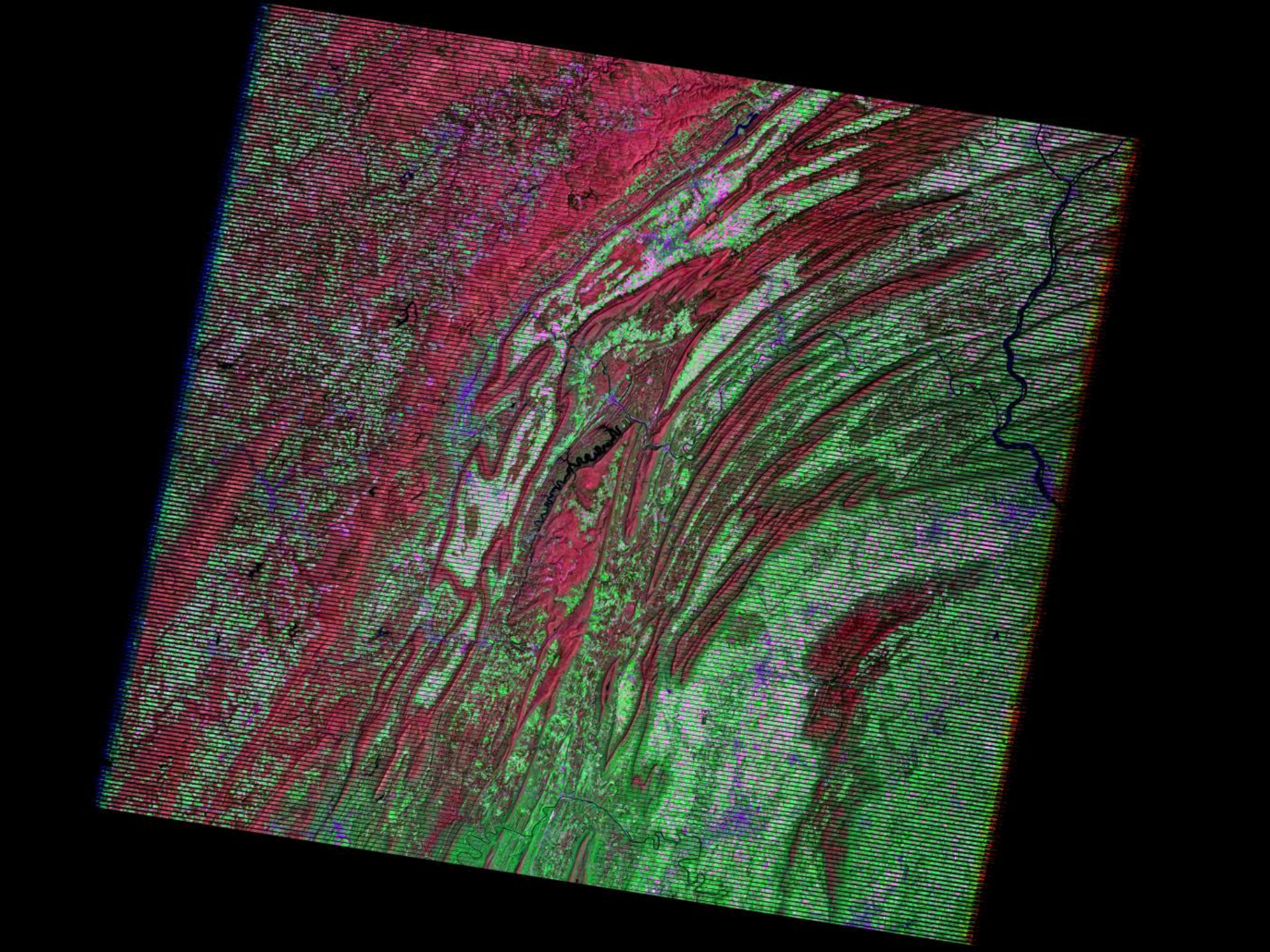
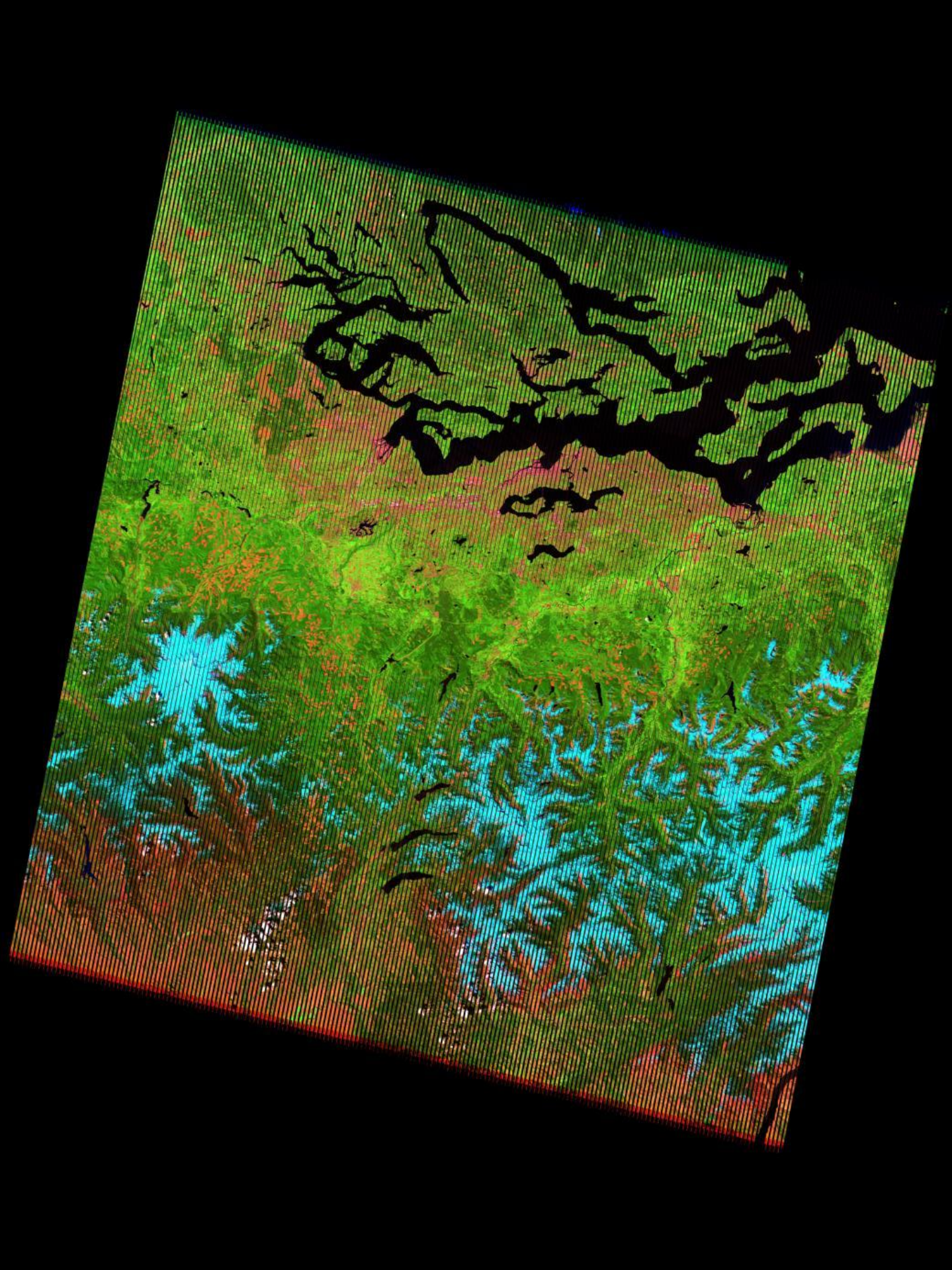
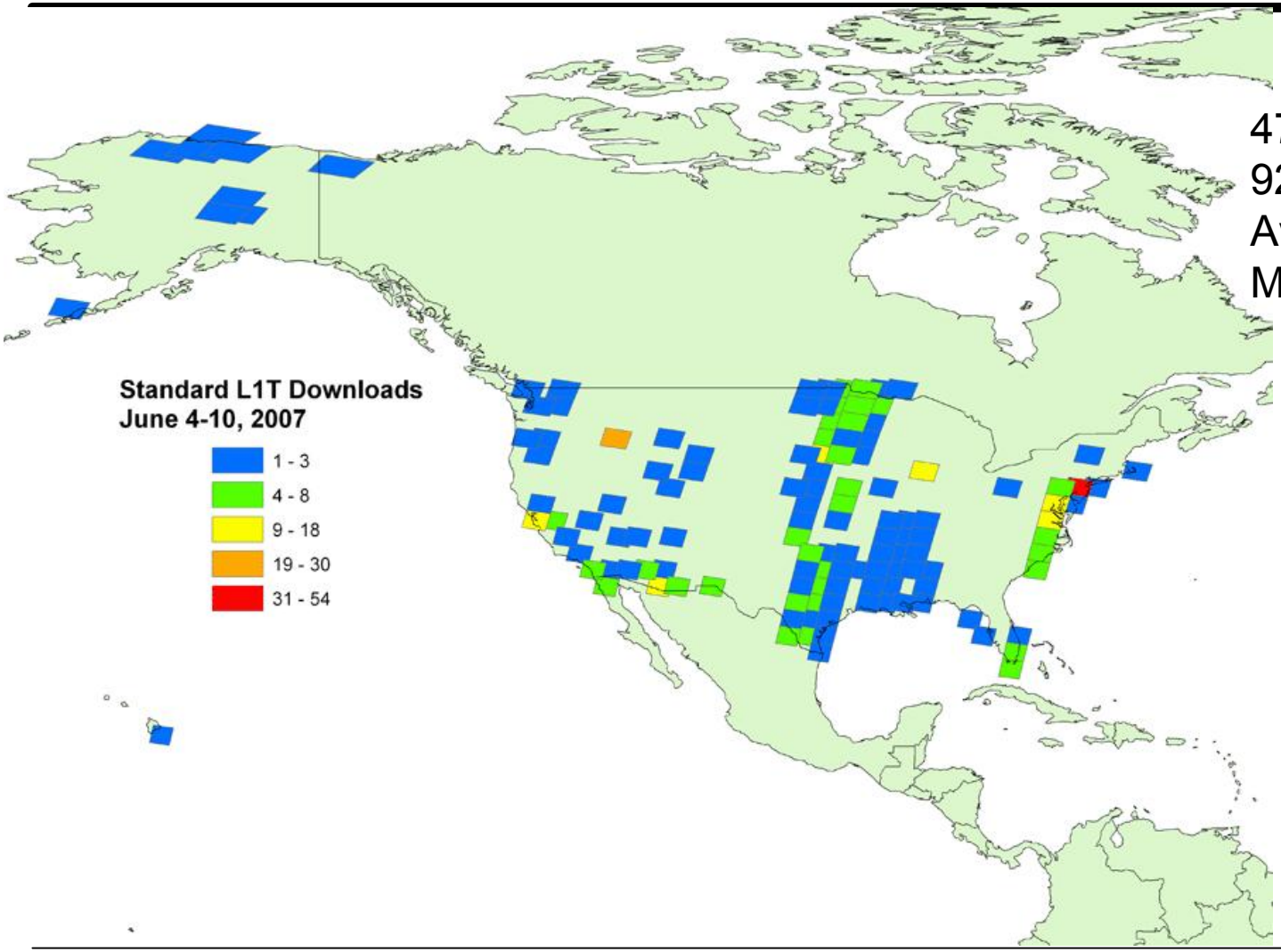




Downloaded Scenes



474 scenes
92 unique users
Avg download: 5
Max download: 46

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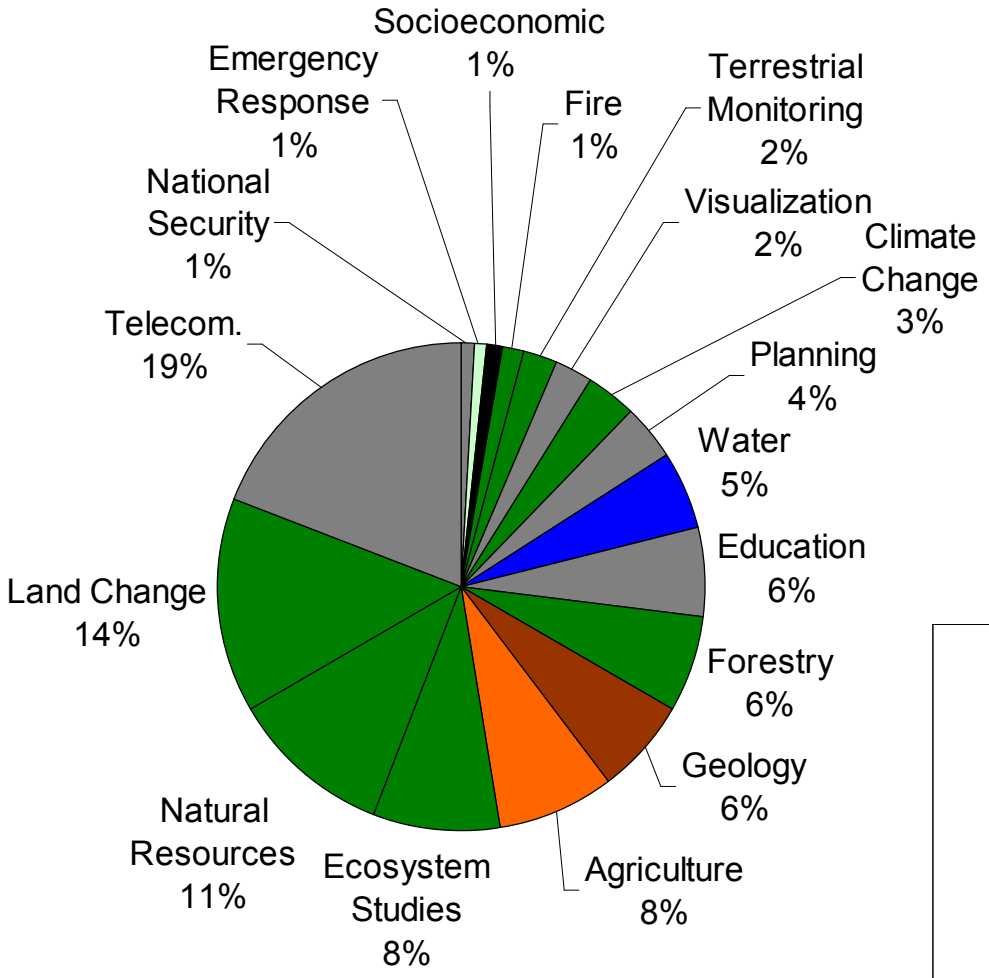
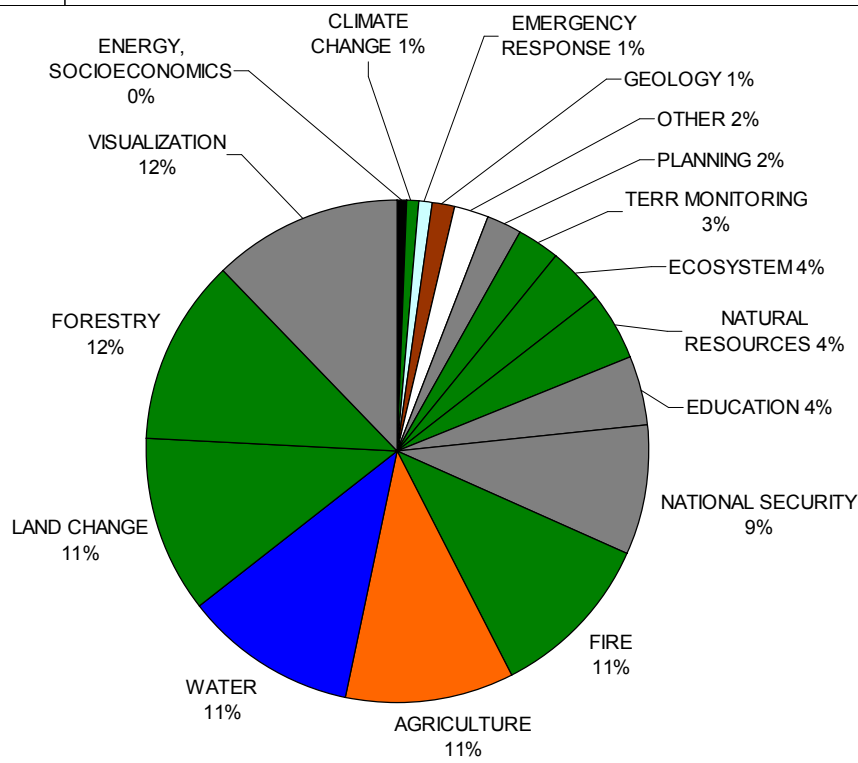


Uses of Data: Oct 2006 - Mar 2007

- 45% Green
- Geography



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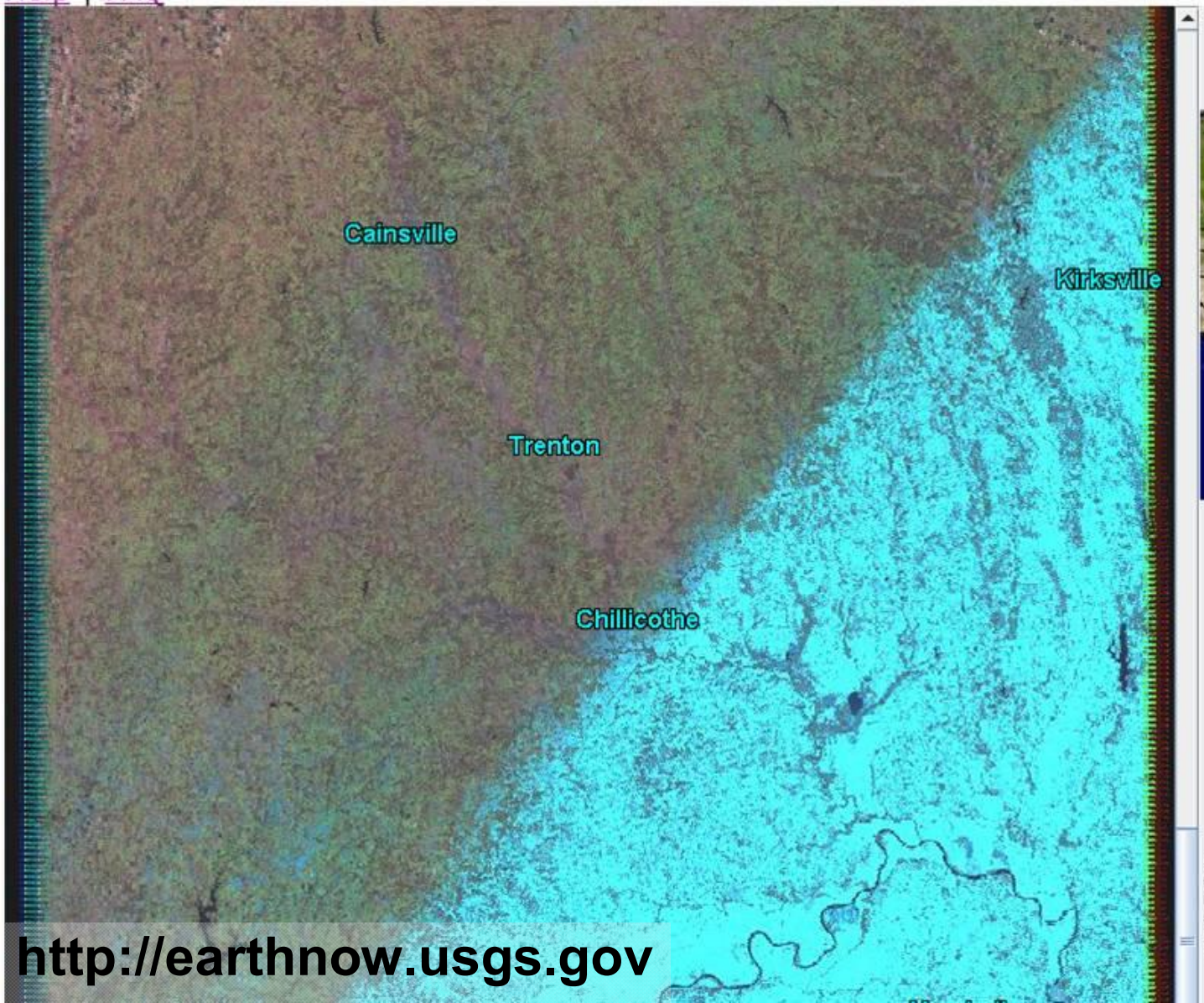


EarthNow!

Landsat Image Viewer

Now Showing: Landsat 7
Replay
Acquired: 10:44am 3-Dec

Next Pass: Landsat 5
Starting in: 0h 22m

Landsat satellites have been acquiring images of the Earth's land surface since 1972. Currently there are more than 1.5 million Landsat images in the National Satellite Land Remote Sensing Data Archive. For more information about Landsat visit http://landsat.usgs.gov

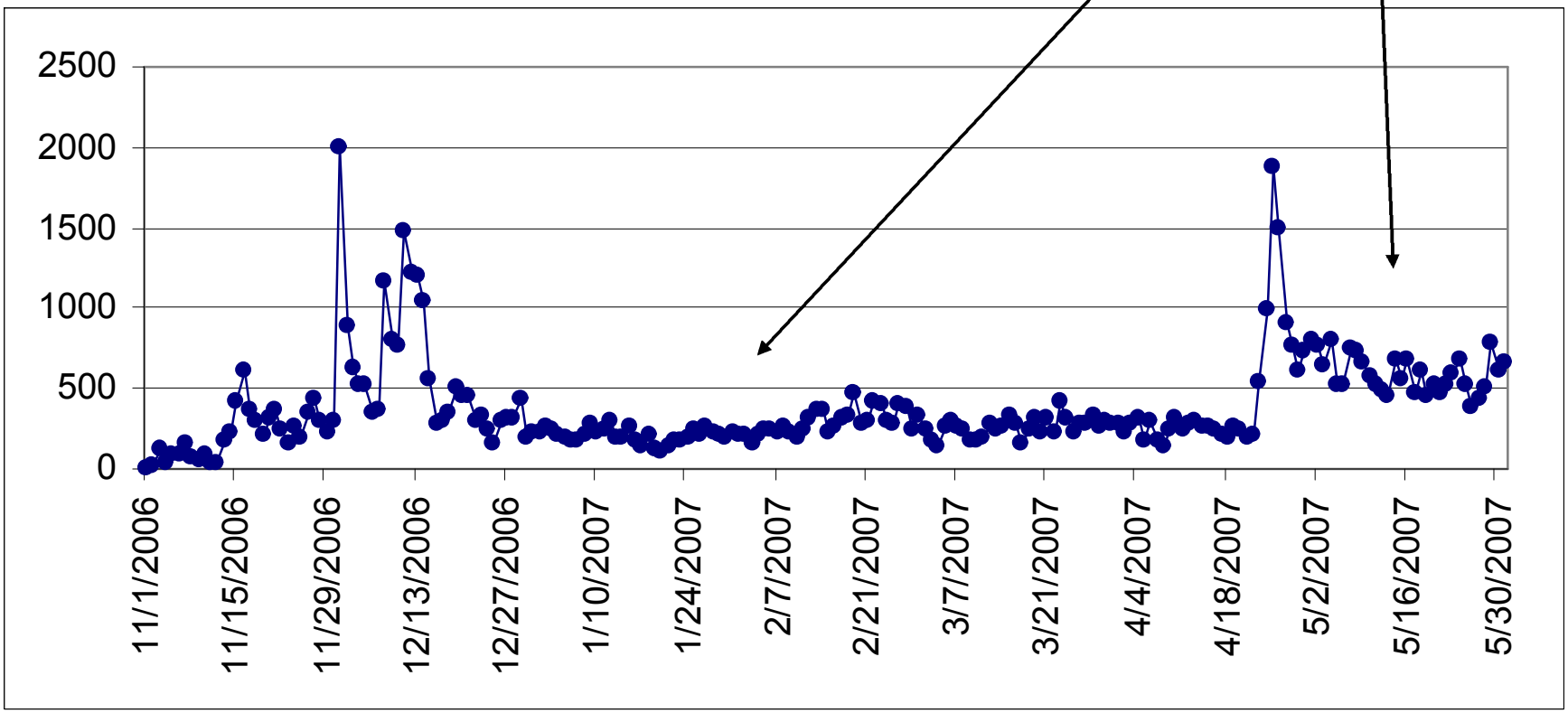
http://earthnow.usgs.gov

EarthNow! stats

46,846 Unique users (Avg 26 per day)

437,321 Passes Viewed

304 Avg to 568 Avg



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Future Plans

Operational

- **Health and Safety of the spacecraft**
- **Maintain reliability of the Ground Station**
- **Archive: robust and consistent**
  - LTAP updates
  - Calibration
  - Products

Cooperative

- **Mid-Decadal Global Land Survey (FY06 - FY09)**

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