ABoVE Science Cloud Webinar:
System Updates and Q & A

November 18th, 2016

Agenda

1. NGA DigitalGlobe Data Updates
2. System Updates/Announcements
3. Q&A

NGA DigitalGlobe Imagery on the ASC

- Over 2 Petabytes of imagery available

- Request access through forms on the ABoVE webpage[>>](>>)

- **New** NGA-NASA Data Access Agreement for **NEW** users only with sections on:

  – Describing planned use of the imagery and how it will be used exclusively to support ABoVE research project(s), with a direct benefit to NASA

  – Geographic zone(s) needed for ABoVE research areas only

  – Copying imagery out of the ASC

Find this presentation on the ABoVE website[>>]

Proper Use of NextView Licensed DigitalGlobe Imagery for ABoVE researchers

Geographic Zones for NGA Data on the ASC
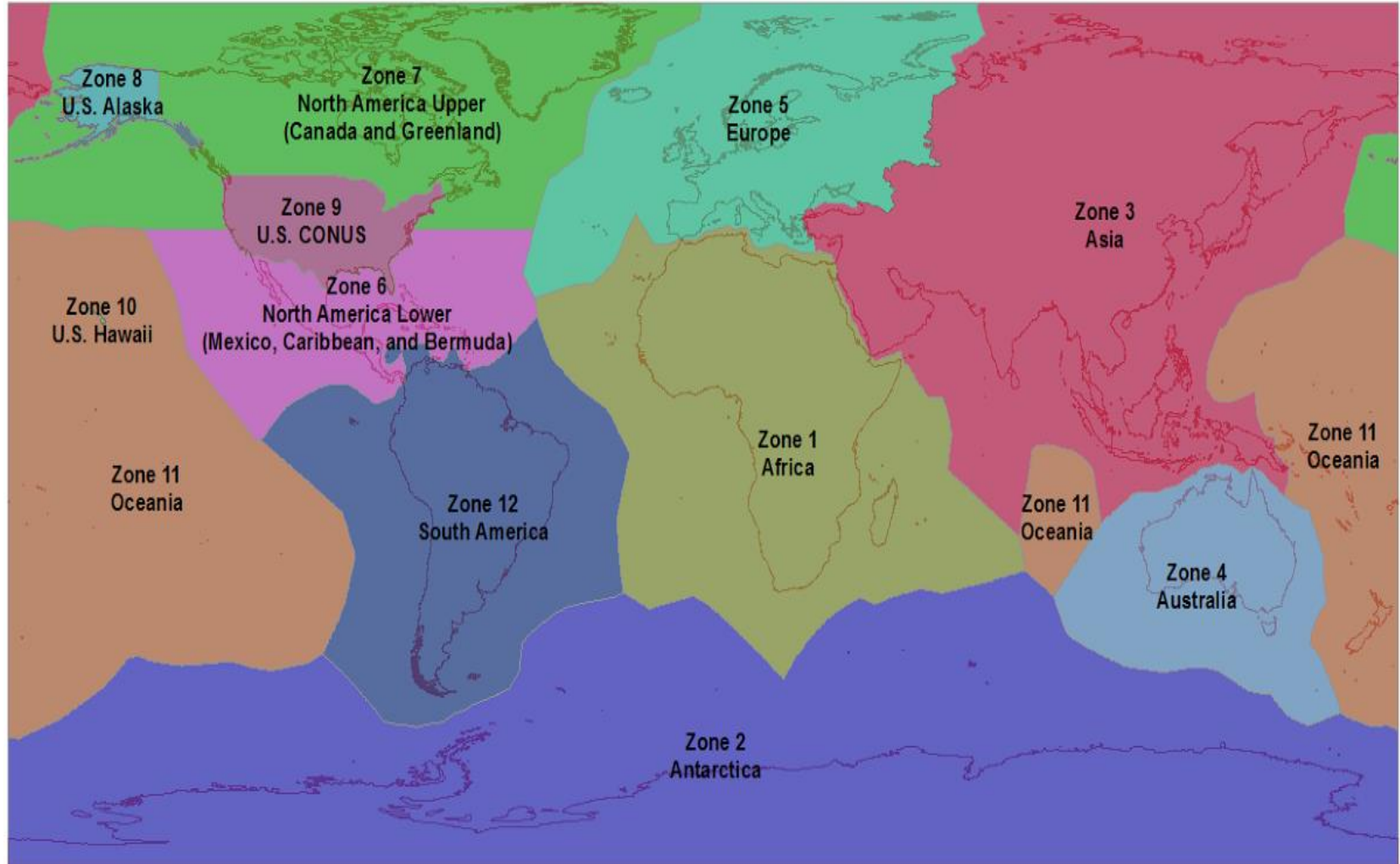
Current ABoVE NGA data users will be granted North American Upper and Alaska, unless their project calls for additional data.

Copying DG Data out of the ASC

- Currently, DG imagery cannot be copied out of the ASC

- If you need to copy imagery out of the ASC, you will need to fill out a new data agreement form>>. Provide:

  - Brief justification of why these data need to be copied out

  - Where data will be copied to

  - Your intended use of the data

ARCTIC BOREAL
VULNERABILITY
EXPERIMENT

NASA
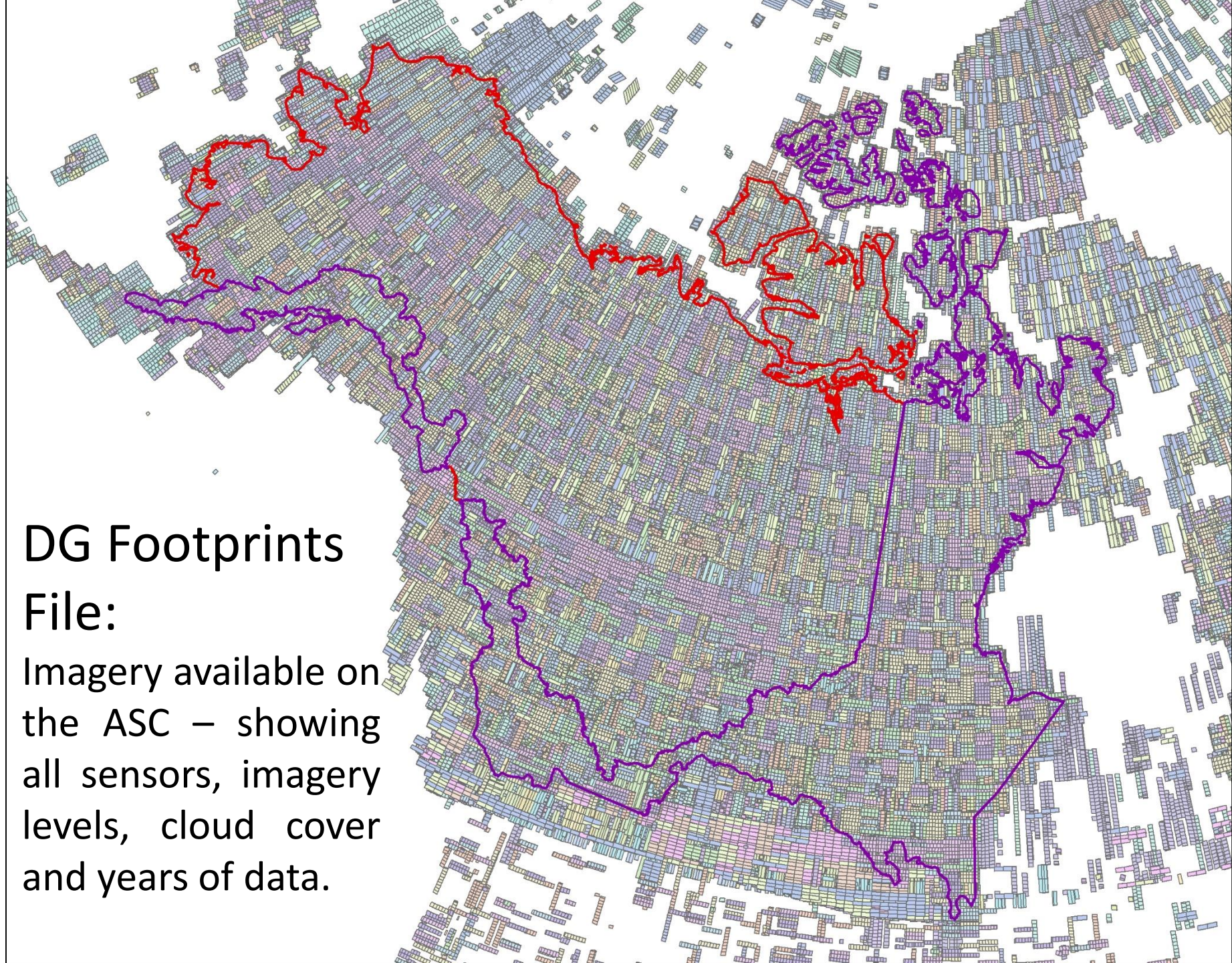
DG Footprints File:

Imagery available on the ASC – showing all sensors, imagery levels, cloud cover and years of data.

Imagery Footprint Files

- Now accessible at:

Linux path: /att/pubrepo/NGA_footprints/

MobaXterm path: /att/gpfsfs/atrepo01/data/NGA_footprints/

Or in

/att/pubrepo/NGA/INDEX/Footprints/current/11_15_2016

(accessible only through first connecting to one of your Linux VMs or after logging in to the Windows VM)

Imagery Footprint Files

- Files are organized by Sensor, processing level, and year

- Most imagery is Basic (1B) Imagery:
  - Corrected for radiometric distortions, internal sensor geometry, optical distortions, and sensor distortions.
  - NOT geo-referenced nor mapped to a cartographic projection.
  - Intended for sophisticated photogrammetric processing such as orthorectification & is a scene-based product.

Plans underway for method to georeference and orthorectify imagery on the ASC – plan for a webinar in December or early January.

System Updates

- Creation of a 'next-generation' platform leveraging Python's 'pip' tool to manage updates

  – Contact support if you want access: support@nccs.nasa.gov

- To facilitate higher I/O workloads, a higher-performance filesystem will be implemented late next week for the 'userfs02' $NOBACKUP filesystem

Announcements

- New Instructions Available: Connecting to the Windows VM using the Guacamole web browser
  - Find a video under "Video Tutorials" on the ASC Setup Page[>>](>>)
  - Find the written directions on the ADAPT webpage[>>](>>)

Next Webinar – off cycle webinar in December or early January – look for an email soon.