



Committee on Earth Observation Satellites

USGS Activities

Regional Spotlight: Americas
U.S. Geological Survey
Christopher Barnes

CEOS WGCapD-9 Annual Meeting
Sunnyvale, California
10-12 March 2020

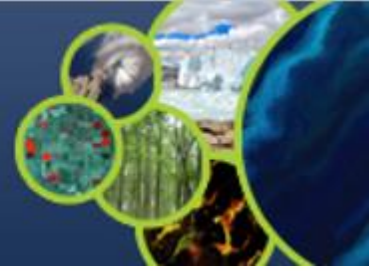




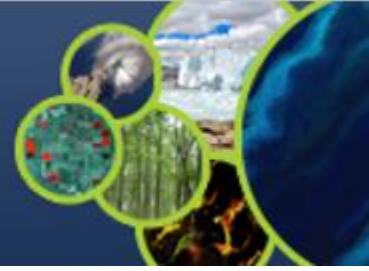
- Globally there are a total of 28 Landsat 8 Ground Station Agreements
 - Americas
 - Argentina (Feb 2013)
 - Brazil (Oct 2014)
 - Canada (March 2013)
 - Mexico (November 2015)
 - U.S. (July 1972)



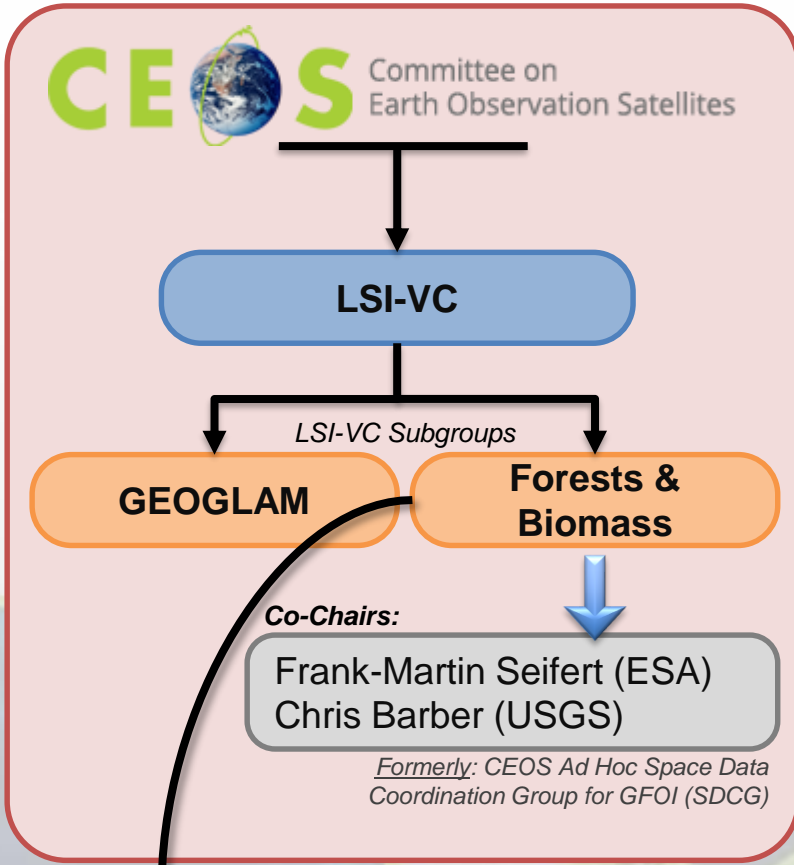
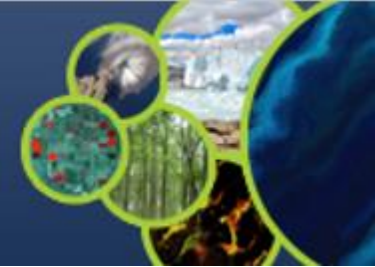
- Exhibited Interest
 - Chile
 - Ecuador



- **Inputs to scheduling system**
 - ICs receive a priority boost in our scheduling system and have ability to provide special acquisition and special campaign requests
- **Direct real-time downlink of raw/mission data**
 - ICs are able to respond quickly to any emergency data needs
 - ICs are able to process the data to any processing recipe or level
- **Access to raw/mission data beyond acquisition circle**
 - IC are able to meet data needs which extend beyond an individual IC's acquisition circle
- **Annual data validation: Raw/mission data and L1 product**
 - ICs receive an extensive annual USGS analysis of both their raw and L1 data (analysis is also completed as part of station certification)



- **Ground processing software source code, algorithms, and documentation**
 - ICs have ready access to implement Landsat L1 and L2 processing capabilities internally or through a chosen vendor
- **Auxiliary and calibration data for local processing**
 - ICs receive USGS DEMs, GCPs, BPFs, CPFs, RLUTs for L1 and L2 processing
- **LGSOWG / LTWG meetings**
 - ICs attend annual management and technical interaction meetings with other Landsat IC Network participants
- **Technical and scientific collaboration opportunities**
 - ICs have access to a variety of technical and scientific opportunities and sharing across the Landsat IC Network (online User Forum)



Interfaces with GFOI Data Component



United Nations
Framework Convention on Climate Change

SilvaCarbon

“US interagency technical cooperation program to enhance the capacity of selected tropical countries to measure, monitor, and report on carbon in their forests and other lands.”

USAID	USFS	EPA
NOAA	State	USGS
NASA	Smithsonian	

Steering Committee Co-Chairs:

Juliann Aukema (USAID)
Sylvia Wilson (USGS/Reston)
Greg Reams (USFS)

SilvaCarbon activities include, but are not limited to, some USA efforts supporting GFOI



LSI-VC

LSI-VC Subgroups

GEOGLAM

For
Bi

Co-Chairs:

Frank-Martin Seifert
Chris Barber (USGS)

Formerly: CEOS
Coordination Group

Interfaces with GFOI
Data Component

FOUR GFOI COMPONENTS



METHOD & GUIDANCE DOCUMENTATION (MGD)

Developing and disseminating user friendly guidance materials



CAPACITY BUILDING

Delivering direct assistance to developing countries



RESEARCH & DEVELOPMENT

Identifying new technologies and overcoming barriers to progress



DATA COORDINATION

Supporting developing countries to use cost-effective data and tools

GFOI

United Nations
Framework Convention on
Climate Change

SilvaCarbon

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developing countries to measure,
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State USGS
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Sara Goeking (USFS) [*in situ* data]
Chris Barber (USGS) [EO data]

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usgs.gov/landsat



custserv@usgs.gov



+1 800-252-4547
+1 605-594-6151



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Landsat Updates
Landsat Headlines