NGAC Landsat Advisory Group (LAG) Subcommittee Update

NGAC Meeting
May 18, 2022

Frank Avila, LAG Chair
Roberta (Bobbi) Lenczowski, LAG Vice-Chair
LAG Mission

Provide advice to the Federal Government, through the Department of the Interior National Geospatial Advisory Committee, on the requirements, objectives and actions of the Landsat Program as they apply to continued delivery of societal benefits for the Nation and the global Earth observation community.

LAG was established in April 2012 as a subcommittee under the NGAC.
# LAG 2021 Membership

<table>
<thead>
<tr>
<th>Name</th>
<th>Organization</th>
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<tr>
<td>Frank Avila <em>(LAG Chair, NGAC Member)</em></td>
<td>National Geospatial-Intelligence Agency <em>(NGA)</em></td>
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<td>Bobbi Lenczowski <em>(LAG Vice-Chair, NGAC Member)</em></td>
<td>Roberta E. Lenczowski Consulting</td>
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<td>Vasit Sagan <em>(NGAC Member)</em></td>
<td>Saint Louis University</td>
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<td>Mariel Borowitz</td>
<td>Georgia Institute of Technology</td>
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<td>Steven Brumby</td>
<td>Impact Observatory, Inc</td>
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<td>Keith Masback</td>
<td>Plum Run, LLC.</td>
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<td>Anne Hale Miglarese</td>
<td>Saildrone, Inc.</td>
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<td>Robbie Schingler</td>
<td>Planet</td>
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<td>Walter Scott</td>
<td>MAXAR</td>
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<td>May Yuan</td>
<td>University of Texas-Dallas</td>
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Federal Contacts: Tim Newman, Tim Stryker, Greg Snyder, Peter Doucette

*USGS/National Land Imaging Program*
Published LAG Reports

Formulating a Big Data Science Challenge for Land Imaging Time-Series Data – April 2021
Landsat Data: Community Standard for Data Calibration – October 2020
Evaluation of a Range of Landsat Data Cost Sharing Models – June 2019
Landsat Future Mission Recommendations – April 2018
Landsat Data Cube Feasibility for Forecasting – April 2018
Analysis of Non-Federal Landsat User Requirements – June 2016
Sentinel Data Use Policies – December 2015
The Value Proposition for Landsat Applications – December 2014
Comments on NRC Report: Landsat and Beyond: Sustaining and Enhancing the Nation’s Land Imaging Program – December 2013
Statement on Landsat Data Use and Charges – September 2012
The Value Proposition for Ten Landsat Applications – September 2012

Documents can be accessed at www.fgdc.gov/ngac/key-documents
Current 2021-2022 LAG Tasks
Task: Landsat in the Cloud Era

- What innovations should NLI consider a priority in providing data and information products in the cloud? Recommending innovations requires an understanding of the current status, policies that may restrict or facilitate innovation, and how these innovations might be accomplished.

Team: Walter Scott (Lead), Mariel Borowitz (Co-Lead), Steve Brumby, Bobbi Lenczowski, Keith Masback, Vasit Sagan, and May Yuan

Activity: Team completed final draft of paper, approved for submission to this NGAC meeting.

Date for LAG Approval: 10 May 2022

Date for NGAC Discussion and Approval: 18 May 2022
2021 LAG Task #2

❖ **Task:** Where is the “Water’s Edge” of NLI Scope?

- Since Federal resources are limited, and we are in a “phase shift” in the Earth Observation community, what earth observation products should the Federal government wisely provide to optimize benefit to the public. USGS seeks recommendations about products it should be investing in, including Level-1, -2, and -3 products.

❖ **Team:** Robbie Schingler (Lead), Frank Avila, Steve Brumby, Bobbi Lenczowski, Anne Miglarese, Vasit Sagan, and May Yuan

❖ **Activity:** Initial draft completed and comments received. Revisions not yet completed. Landsat in the cloud and more experience with ARD and LCMAP information may require additional modifications. LAG will seek NGAC approval during later 2022 NGAC meeting.

❖ **Target Due Date for LAG Approval:** TBD

❖ **Target NGAC Approval:** 4QCY 2022
2022 LAG Work Program

❖ Possible Topics:
- Analysis of Cloud use patterns:
  Should imagery be differently organized?
  Should more applications be available there?
  Should exporting complete sets of new Collections be handled differently?
  What metrics to collect to assess value to whom and for what?
- Harmonization of sensors’ data (e.g., HLS):
  Case Studies of successes and challenges
- Significance of openness to confront geo-political issues with accessible, reliable earth observation

❖ Any suggestions from the LAG and NGAC members
Landsat Program Update

Tim Newman

USGS National Land Imaging Program
Questions/Discussion