Landsat Advisory Group (LAG) Overview

Frank Avila
LAG Chair

Roberta (Bobbi) Lenczowski
LAG Vice-Chair

June 10, 2020

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 on April 2012 as a subcommittee under the NGAC

National Geospatial Advisory Committee

LAG 2020 Membership

Name	Organization
Frank Avila (LAG Chair, NGAC Member)	National Geospatial-Intelligence Agency (NGA)
Roberta Lenczowski (LAG Vice-Chair, NGAC Member)	Roberta E. Lenczowski Consulting, LLC
May Yuan (NGAC Member)	University of Texas-Dallas
Vasit Sagan (NGAC Member)	Saint Louis University
Mariel Borowitz	Georgia Institute of Technology
Steven Brumby	National Geographic Society
Keith Masback	Plum Run, LLC
Anne Hale Miglarese	Radiant Earth Foundation
Walter Scott	MAXAR

Federal Contacts: Tim Newman, Tim Stryker, Greg Snyder, Peter Doucette
USGS/National Land Imaging Program

National Geospatial Advisory Committee

LAG Task #1

- **Task: Report on Landsat data as a community standard for data calibration.**

  USGS is requesting the LAG to develop a report that captures the essence of Landsat's "gold" standard standing. Terminology, descriptions, and specific examples should be presented at a layperson's level. Concepts should emphasize radiometric, geometric, spectral, and cross-sensor calibration. Applications should emphasize change detection, time-series analysis, and data fusion/harmonization/integration.

- **Team:** Walter Scott (Lead), Frank Avila, Steve Brumby, Bobbi Lenczowski

- **Actions:** The team has collaborated to develop a first draft of the report. It will be discussed with the LAG at the June 9, 2020 LAG meeting.

- **Target Due Date:** September 2020
- **Target NGAC Approval:** October 2020 Meeting

National Geospatial Advisory Committee

LAG Task #2

- **Task: Formulating a Big Data Science challenge for land imaging time-series data.**

  USGS is requesting the Landsat Advisory Group to investigate the formulation of a Big Data Science Government Challenge (e.g., implemented via an Xprize-like mechanism) to incentivize exploration into the utility and efficacy of ML/DNNs methods for purposes of exploiting Landsat ARD for time-series analysis and land change forecasting applications, and to augment those developed as part of the USGS LCMAP initiative.

- **Team:** Anne Miglarese (Lead), Frank Avila, May Yuan, Steven Brumby, Vasit Sagan

- **Actions:** The team has met twice this spring with Tim Newman and Peter Doucette to discuss the framework, scope and intent of Task #2. The team will develop a draft framework document to share with USGS by mid-July.

- **Target Due Date:** September 2020
- **Target NGAC Approval:** October 2020 Meeting

LAG Task #3

- **Task: Modernized interpretation of the Land Remote Sensing Policy Act of 1992 (Public Law No: 102-555)**

  USGS is requesting the LAG to provide a modernized interpretation of the current language of PL 102-555 that can serve to inform future Land Remote Sensing policy formulation among decision makers, and which remains consistent with the spirit of the existing language. Factors to consider include technology trends in space and ground mission segments, public-private partnering opportunities, and evolving user needs across a broad range of applications.

- **Team:** Keith Masback (Lead), Mariel Borowitz (Co-lead), Anne Miglarese, May Yuan, Bobbi Lenczowski, Walter Scott

- **Actions:** The team met once this spring on 24 April. May Yuan set up a MS Teams site for document and reference sharing. Five actions were generated during this discussion and all are complete. The team will meet in late June to collaborate on writing assignments and a schedule.

- **Target Due Date:** November 2020
- **Target NGAC Approval:** December 2020 Meeting

Questions?