

# **Landsat Advisory Group (LAG) Status Report**

## **NGAC Meeting**

**March 22, 2017**

**Joanne Gabrynowicz, LAG Chair  
and  
Frank Avila, LAG Vice-Chair**

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***National Geospatial Advisory Committee***

# LAG Purpose

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 2016 Membership

| Name  | Organization                                  |
|---|---|
| Joanne Gabrynowicz (LAG Chair, NGAC Member) | University of Mississippi                     |
| Frank Avila (LAG Vice-Chair, NGAC Member)   | National Geospatial-Intelligence Agency (NGA) |
| Roger Mitchell (NGAC Member)                | MDA Information Systems, Inc.                 |
| Rebecca Moore (NGAC Member)                 | Google, Inc.                                  |
| Kass Green                                  | Kass Green & Associates                       |
| Peter Becker                                | ESRI  |
| Roberta Lenczowski (NGAC Member)            | AmericaView                                   |
| Tony Willardson                             | Western States Water Council                  |
| Steven Brumby                               | Descartes Labs                                |
| Walter Scott                                | DigitalGlobe                                  |
| Jed Sundwall                                | Amazon Web Services                           |

Federal Contact: Tim Newman and Peter Doucette (USGS)

# LAG 2016 Study Tasks

- Task #1 – Revisit Smallsat Investigation
  - USGS asking LAG formulate comprehensive **narrative on pros and cons** of *existing* smallsat technology **juxtaposed with Landsats 8 and 9**.
    - Topic is a carry-over from 2015 LAG study question.
    - Task is divided into four sub-topics.
  
- Task #2 – Temporal Data Cube Study
  - Study the **feasibility and utility** of implementing temporal data cubes **to support projection** or ‘forecast’ models of land change trends
    - Task is divided into five sub-topics.

# LAG Study Tasks

- Task #3 – Data Continuity Mission Enhancements
  - To what extent could ‘significant’ **sensor enhancements** be made **in future Landsat missions**, while maintaining acceptable backward compatibility? What would be the suggested methods for data aggregation and validation?
    - Task work-off will be deferred to a later date due to topic complexity and lack of a Team Lead.
    - Proposed Report Due Date – September 30, 2017.

# Status

- Task #1 and #2 teams are working to complete initial report draft.
  - Task #1 final report expected to be submitted to NGAC before June 2017 meeting.
  - Task #2 final report expected to be submitted to NGAC by June 30, 2017.
- Task #3 team will be re-established after completion of first two tasks.
- Team leads assigned
  - Leads were previous LAG team member
  - Task #1 lead: Kass Green
  - Task #2 lead: Roberta (Bobbi) Lenczowski

# LAG Task #1 – Revisit Smallsat Investigation

## ■ Team Members -

| Name                             | Organization                  |
|----------------------------------|-------------------------------|
| Kass Green – <b>TEAM LEAD</b>    | Kass Green & Associates       |
| Roger Mitchell (NGAC Member)     | MDA Information Systems, Inc. |
| Peter Becker                     | ESRI                          |
| Roberta Lenczowski (NGAC Member) | AmericaView                   |
| Steven Brumby                    | Descartes Labs                |
| Walter Scott                     | DigitalGlobe                  |

- Proposed Report Due Date of March 31, 2017 has been delayed due to member's schedules.
- Regroup on Task 1: ~ March 24, 2017.
- Complete drafts on Tasks 2-4: ~ April 14, 2017.
- Final report draft completed by May 12, 2017 and distributed to task group for review.
- Final report submitted to NGAC by June 2, 2017.

# LAG Task #2 – Temporal Data Cube Study

## ■ Team Members –

| Name  | Organization                 |
|---|------------------------------|
| Roberta Lenczowski - <b>TEAM LEAD</b> (NGAC Member) | AmericaView                  |
| Rebecca Moore (NGAC Member)                         | Google, Inc.                 |
| Peter Becker  | ESRI                         |
| Tony Willardson                                     | Western States Water Council |
| Steven Brumby                                       | Descartes Labs               |
| Jed Sundwall  | Amazon Web Services          |
| Frank Avila (NGAC Member)                           | NGA                          |

## ■ Additional Participants –

- Sara Larsen (WSWC), supporting Tony Willardson
  - Matthew D. Hancher (Google), supporting Rebecca Moore
  - Joe Flasher (Amazon), supporting Jed Sundwall
- Proposed final report due date to NGAC - June 30, 2017

# LAG Task #3 – Data Continuity Mission Enhancements

## ■ Team Members -

| Name                           | Organization                 |
|--------------------------------|------------------------------|
| Joanne Gabrynowicz (LAG Chair) | University of Mississippi    |
| Kass Green                     | Kass Green & Associates      |
| Tony Willardson                | Western States Water Council |
| Walter Scott                   | DigitalGlobe                 |

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