

**2024 STV Community Meeting**  
**October 28-29, 2024**  
**NASA Goddard Space Flight Center, Greenbelt, MD**

**Overview**

The purpose of this meeting is to provide the Surface Topography and Vegetation (STV) community background on STV and inform the community on the status of STV progress toward an observing system. This meeting provides an opportunity for the broader community to inform an eventual STV observing system. During this meeting, the STV team will be seeking input to refine STV measurement needs from the science and applications objectives, discuss airborne campaigns, establish observing priorities, and continue technology maturation. This meeting provides an opportunity for the STV team to draw on the diversity of expertise, experience, and backgrounds from the broader community.

**Agenda**

**Monday, October 28, 2024**

***Morning***

8:00		<i>Registration</i>
8:30	Welcome	Dalia Kirschbaum/Tom Neumann
8:35	Introduction, and charge to workshop	Andrea Donnellan/Craig Glennie
8:50	HQ Comments	Ben Phillips/Amber Emory
9:00	ESD senior leadership	Julie Robinson
9:15	Earth Science to Action and STV	Tom Wagner
9:30	US Geological Survey perspective	Jason Stoker (virtual)
9:45	US Forest Service perspective	Everett Hinkley (virtual)
10:00	Canadian Interests for STV	Canadian Space Agency (virtual)
10:15		<i>Break</i>
10:30	Decadal Survey Midterm Assessment	Bill Dietrich (virtual)
10:45	STV science flow down (15 min each)	Science and Applications Leads
	<ul style="list-style-type: none"><li>● Solid Earth – Paul Lundgren</li><li>● Cryosphere – Brooke Medley</li><li>● Vegetation Structure – Keith Krause</li></ul>	

- Hydrology and Coastal Geomorphology Marc Simard
- 12:00 Other applications Pietro Milillo
- 12:15 *lunch*
- Afternoon**
- 1:15 Charge to science breakouts Andrea Donnellan
- 1:30 Science Breakouts
  - Discuss flow down including justification
  - Identify needed activities for modeling, surrogate data, analysis, etc.
  - ASCENT campaigns
  - L3-L4 product definitions
- 3:00 *Break*
- 3:15 Reports from breakouts (15 min each)
  - Solid Earth – Paul Lundgren
  - Cryosphere – Brooke Medley
  - Vegetation Structure – Keith Krause
  - Hydrology and Coastal Geomorphology – Marc Simard
- 4:45 Discussion
- 5:00 Poster Session
- 6:00 *Adjourn*

**Tuesday, October 29, 2024**

***Morning***

- 8:30 Flow down to technology and goals Craig Glennie
- 8:45 Technology Maturation (20 min each)
  - Radar – Yunling Lou
  - Lidar – Ben Smith
  - Stereoimaging – Mel Rodgers
- 9:45 *Break*
- 10:15 Data Fusion David Shean/Robert Treuhaft
- 11:00 Architecture Joe Green/Mark Stephen
- 11:45 Discussion
- 12:00 *Lunch*

**Afternoon**

- 1:00 Charge to technology breakouts Craig Glennie
- 1:15 Technology Breakouts
- Review measurements from science traceability
  - L0–L2 product definitions
  - Current capabilities and data sources
  - Unique and key characteristics for STV observing system
  - Maturation activities
- 2:45 *Break*
- 3:15 Reports from breakouts (15 min each)
- Radar – Yunling Lou
  - Lidar – Ben Smith
  - Stereoimaging – Mel Rodgers
- 4:00 ASCENT airborne campaigns Susan Bell
- 4:30 Discussion and wrap up
- 5:00 *Adjourn*