Location: Linfield Family Colloquium Room, Jennie Smoly Caruthers Biotechnology Building, University of Colorado Boulder

Date: October 31-November 1, 2018

Early Adopter Benchmark Meeting, Agenda Items

October 31, 2018

Goal: Welcome, ICESat-2 Mission Updates, introduction to VALUABLES Consortium VOI Assessment framework, and example of benchmarking from SMAP mission.

8:30 am	Meet and greet at Etai's Bakery Cafe	
9:00 am	**Meeting Kickoff, Logistics**	Sabrina Delgado Arias, SSAI; Molly Brown, University of Maryland
9:15 am	**Welcome by our Hosts: NSIDC and U.S. AON**	Steve Tanner, NSIDC; Sandy Starkweather, U.S. AON
9:30 am	**ICESat-2 Mission Welcome; Mission and Product Updates**	Tom Neumann, NASA GSFC
9:50 am	**ICESat-2 Science Definition Team Perspective on Value of EA Benchmarking**	Lori Magruder, University of Texas
10:05 am	Morning Break	
10:20 am	**EA Research to Operations: Integration of SMAP data into the USDA's Foreign Agricultural Service Crop Explorer**	John Bolten, NASA GSFC
10:40 am	**The VALUABLES Framework for Quantifying the Socioeconomic Benefits of Earth Observations**	Bethany Mabee, VALUABLES Consortium, Resources for the Future
11:00 am	**Early Adopter Roundtable:** introductions, any updates on proposed methodology for ingesting ICESat-2, goals for meeting, Q&A.	
12:00 pm	Lunch	

Goal: Identify Early Adopter benchmarking strategies and metrics

Early Adopter PI Briefs – 15 minutes with time for questions	

	Each Early Adopter Team will provide briefs on their tentative benchmarking plan:
	• Summarize how you will ingest ICESat-2 data.
	   o What are the specific activities involved from input to output for your process?
	• List the performance metrics that you plan to use.
	   o What do your metrics measure?
	   o What core measurements are included in each of your performance metrics?
	   o Is there a timeframe related to your performance metrics?
	• Describe how you will monitor performance. List any milestones you will use to track progress.

12:30 pm	**Managing and Protecting our Terrestrial and Water Resources—Early Adopter PI Briefs** • Christopher Parrish, Oregon State University (*remote*) • Hulin Gao, Texas A&M University (*remote*)

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	Early Adopter PI Briefs – 15 minutes with time for questions
	• Guy Schumann, University of Colorado (*remote*) • Lynn Abbott, Virginia Tech
1:30 pm	Break
1:40 pm	**Reducing Loss of Life and Property from Disasters—Early Adopter PI Briefs** • Birgit Peterson, U.S. Geological Survey • Wenge Ni-Meister, Hunter College of The City University of New York (*remote*) • Ute Herzfeld, University of Colorado • Nancy Glenn, Boise State University (*Molly Brown presenting*)
2:40 pm	Break
2:50 pm	**Managing our Rapidly Changing Polar Regions – Early Adopter Briefs** • Andrew Roberts, Los Alamos National Laboratory • Richard Allard, Naval Research Laboratory (*remote*) • Emily Berndt, NASA MSFC • Hongjie Xie, University of Texas at San Antonio
3:50 pm	Break
4:00 pm	**Discussion and Day 1 Closing Comments** • Review methods, discuss any possible updates based on lessons learned from Day 1, discuss meaning of metrics for each EA organization • Early Adopter readiness - Discussion of timeline for analysis; year one? Year two? • What post-launch support from the mission do our Early Adopters expect? • What does success look like for each Early Adopter? • Q&A

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Goal: NSIDC Update, Introduction to U.S. AON Value Mapping initiative, and final discussion.

8:30 am	Morning coffee at Etai's Bakery Cafe	
9:00 am	**Day 2 Kickoff**	Sabrina Delgado Arias, SSAI
9:15 am	**NSIDC Update on management, distribution and support for ICESat-2 data**	Steve Tanner, NSIDC
9:35 am	**Value Trees for Arctic Observing Systems**	Sandy Starkweather, U.S. AON
10:00 am	Morning Break	
10:15 am	**Discussion:** • Review example "Value Trees" developed for ICESat-2 Early Adopter research based on U.S. AON model. • Have we identified all critical/observed parameters that ICESat-2 will help inform? • Have we identified all observational systems/technologies that will be used in conjunction with ICESat-2? • Discuss impacts to end-users (researcher and operational): potential difference in outcomes between using existing information only versus using new information provided by ICESat-2. • Identify any remaining questions needed for future assessment of socioeconomic value of using ICESat-2 based on insights from Day 1 & Day 2.	
11:45 am	Break: Stretch and visit to Etai's Café to buy Lunch	
12:00 pm	**Working Lunch/Final Discussion– Bring Your Lunch to Conference Room**	
	• NSIDC Demo – Data Access Workflow (including Earthdata Search access and customization services) with preliminary ICESat-2 data. • Concluding comments	

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Discussion Questions

Questions from the SMAP Early Adopter Benchmark meeting that will help guide the discussion (some of these questions may already be answered within EA use cases)

1. What are some lessons learned from the EA study?
2. What information will the ICESat-2 data improve?
3. By how much will that information improve?
4. In what dimensions?
5. What economic activities (if any) are influenced by that information?
6. What decisions can be taken given that information (and its uncertainty)?
7. Have there been studies assessing the impact of that information?
8. Of assessing the impact of the related economic decisions?
9. Of policies related to those economic decisions?

Questions from the VALUABLES Consortium that will help guide discussion:

1. How does the information that is provided by the application reduce uncertainty about the natural/human system?
2. How are the decision makers' prior beliefs updated as a result of the new information?
3. What actions can the decision maker take in response to their updated beliefs?