Remote Sensing and Fluxes Upscaling for Real-world Impact

Day 1: Tuesday, July 9

Pacific	Eastern	Agenda	Title
8:00	11:00	Welcome, workshop introduction	
		Session 1 - site scale	
9:00	12:00 PM	Keynote: Ankur Desai (University of Wisconsin-Madison)	Your site is not so special, or is it? Scaling fluxes from the specific to the general and back again
9:20	12:20 PM	Science Talk: David Durden (NEON)	From the plot to the plane: NEON's integrated scaled design
9:30	12:30 PM	Impact Talk: Carolina Lisboa (Verra)	Harnessing Remote Sensing and Flux Measurements for Verified Carbon Standard and Agricultural Land Management Methodologies
9:40	12:40 PM	Q&A	
9:50	12:50 PM	Breakout Session 1	
10:30	1:30 PM	BREAK	
		Session 2 - regional/landscape	
11:00	2:00 PM	Keynote: Troy Magney (UC Davis)	Scaling evergreen forest photosynthesis from the needle to the tower to space
11:20	2:20 PM	Science Talk: Housen Chu (LBNL)	Bridge the link between flux towers and models to enable upscaling
11:30	2:30 PM	Impact Talk: Levente Klein (IBM)	Foundation Models for Vegetation Growth and Carbon Sequestration
11:40	2:40 PM	Q&A	
11:50	2:50 PM	Breakout Session 2	
12:30 PM	3:30 PM	Lunch and engagement with speakers	
		Session 3 - global	
1:30 PM	4:30 PM	Keynote: Jacob Nelson & Samuel Upton (MPI BGC)	Reconciling Atmospheric Carbon and Water Fluxes: Integrated Top-Down and Bottom-Up Approaches with FLUXCOM-X and X-BASE
1:50 PM	4:50 PM	Science Talk: Tammy (Kunxiaojia) Yuan (LBNL)	Wetland CH4 Emissions Upscaling by Causality Guided Machine Learning: from Regional to Global Scale
2:00 PM	5:00 PM	Impact Talk: Robert Granat (CarbonSpace)	Flux Estimation Solutions and Impacts in the Food and Beverage Sector
2:10 PM	5:10 PM	Q&A	
2:20 PM	5:20 PM	Breakout Session 3	
3:00 PM	6:00 PM	BREAK	
		Session 4 - integration	
3:30 PM	6:30 PM	Keynote: Youngryel Ryu (Seoul National University)	Beyond Boundaries: The Future of Land Surface Fluxes through Hyper-Resolution Remote Sensing across Space, Time, and Spectrum
3:50 PM	6:50 PM	Science Talk: Stefan Metzger (AtmoFacts)	Linking Realms from Ground to Orbit: Matching Fluxes and States Across Scales
4:00 PM	7:00 PM	Impact Talk: Kevin Tu (Kateri)	Bridging the gap between science and social benefit: Eddy flux for measurement, reporting and verification of grassland carbon sequestration
4:10 PM	7:10 PM	Q&A	
4:20 PM	7:20 PM	Breakout Session 4	
5:00 PM	8:00 PM	Adiourn	

Day 2: Wednesday July 10

Pacific	Eastern	Agenda	Facilitator
8:00	11:00	Arrival and tutorial setup	
9:00	12:00 PM	TOPIC 1: Hands-on tutorial: From site-scale	Nicola Falco (LBNL), David Durden (NEON)
10:00	1:00 PM	BREAK	
10:15	1:15 PM	TOPIC 2: Hands-on tutorial: over regional-scale connectivity	David Durden (NEON), Stefan Metzger (CarbonDew)
11:15	2:15 PM	BREAK	
11:30	2:30 PM	TOPIC 3: Hands-on tutorial: to continental-scale connectivity	Paul Stoy (University of Wisconsin-Madison)
12:30 PM	3:30 PM	Lunch and presentation: tools for data discovery	Margaret Torn (LBNL), Rachel Hollowgrass (LBNL), Bridget Hass (NEON AOP)
1:30 PM	4:30 PM	Report back from Breakouts	Workshop Organizers
2:00 PM	5:00 PM	Future workshop topics discussion	Workshop Organizers
2:30 PM	5:30 PM	Workshop Summary	Workshop Organizers
3:00 PM	6:00 PM	Adjourn	