

FLUXNET ASILOMAR MODELING WORKSHOP

Location:

Asilomar Conference Grounds

800 Asilomar Avenue. Pacific Grove, CA, 93950

Phone: 001-866-654-2878

Webpage: <http://www.visitasilomar.com/>

AGENDA

FEBRUARY 10TH, TUESDAY

-Arrive at Asilomar mid-afternoon

1730: Register at front desk.

Conference Reservation Number: 22H4EV

Conference Name: UCB FLUXNET

1800-1900: Group Dinner

Session 1: Acadia Room

What is the FLUXNET Measurement Community providing to the Modeling Community?:

Overview of FLUXNET: Data, Results, Tools

1930: Register

2000: Welcome and Scope of Workshop. *Dennis Baldocchi*

2000-2030: Flux Data Characteristics: What are the Data? (how are they processed, uncertainties, ancillary data) *Dario Papale*

2030-2100: Pattern-oriented strategies for Model-Evaluation in Space and Time
Markus Reichstein

2100: Post-Mortem...*Informal Discussions or walk on Beach*

FEBRUARY 11TH, WEDNESDAY

0730-0900: Breakfast

Session 2: Acadia Room

Overview of FLUXNET: Data, Results, Tools, Continued

0900-9030: Processes and Patterns to Reproduce in Models: General Results from FLUXNET. *Dennis Baldocchi*

Strategies for Using Flux Data for Model Validation and Algorithm Develop: State of Modeling and Use for Flux data

0930-1000: How FLUXNET data and Models work together to improve knowledge on the

Carbon Cycle. *Philippe Ciais*

1000-1030: How FLUXNET data and Models work together to improve knowledge on the Land Surface Modeling, e.g albedo, Bowen ratio, land use types and change, land-Atmosphere Feedbacks. *Gordon Bonan*

1030-1100: *Coffee break*

1100-1130: How FLUXNET data and Models work together to improve knowledge on the Remote Sensing, e.g surface temperature, LAI, fPAR, phenology. *Steve Running*

1130-1200: How FLUXNET data and Models can improve knowledge on the Water, evaporation at tower, grid, watershed and continental scales. *Sonia Seneviratne*

1200-1300: Lunch

1330-1530: Plenary Discussion *Baldocchi/Reichstein*

What information and derived data products do modelers need from the FLUXNET measurement community?

- How long should the sites run? Where? How many? More? Longer?
- What Information Exists, but is missing from the Data Archive?
- What derived products are needed? e.g grid/pixel integrated fluxes vs tower data.
- How good is good enough, for model performance and measurement accuracy?
- Merits of Model Hierarchy Tests vs Model Intercomparisons, with Flux data

1530-1600: *Coffee break*

1600-1700: Break-Out Group Discussions

Validating land surface models and Improving Process-Level Algorithms with longer datasets (5-10 years)...Identify Needs, Priorities, Potential Projects

Discussion Leaders

Water: Schulz/Amiro

Carbon: Luo/Law

Climate/Land Surface Interactions: Pearson/Kim

1800-1900: Dinner

2000-2200: Bonfire at the beach

FEBRUARY 12TH, THURSDAY

0730-0900: Breakfast

0900-1000: Plenary, Reports from Working Groups and General Discussion

1000-1015: REFLEX project Report. *Matthew Williams*

1015-1030: Model-intercomparison activity in Japan/Asia *Akihiko Ito*

1030-1100: *Coffee break*

1100-1200: Discussion Topic:

Validating and Improving land surface models with longer datasets (5-10 years): Follow-up

- Coupled Carbon, Water, Ecosystem Climate Models: Reality or Over Reaching; Can FLUXNET Help? *Loustau/Williams/Abramowitz*
 - Pros and cons in testing models against time series at towers vs functional relationships across gradients (climate, chronosequence, functional types)
 - Upscaling fluxes to grid-scale with data assimilation and remote sensing

1200-1300: Lunch

1330-1500: Future composition of FLUXNET

What new science can modelers and experimentalists do together?: Perspective from Younger Scientists. *Jung/Vinkollu/Zaelle*

1500-1500: *Coffee break*

1530-1600:

What new science can modelers and experimentalists do together? Perspectives for Senior Scientists. *Running/Valentini/Ciais*

1630-1700: Discussion Topic: Issues of sharing data, collaboration, credit, Access.
Papale/Cook/Agarwal

1800-1900: Dinner

2000-2200: Open evening...

FEBRUARY 13TH, FRIDAY

0730-0830: Breakfast

0830: Plenary Sessions *Baldocchi/Reichstein/Papale*

Planning Future Activities: Priorities, Questions, Execution, Resources

- Role of FLUXNET in the GEOSS planning for global monitoring and Orbital Carbon Observatories

1030-1100: *Coffee break*

Data flow between Modelers and Experimentalists, a Two-Way Street

- Submitting model runs to FLUXNET database
- Opening the Database to Modelers

1200-1300: Lunch/Departures

Name	Organization	email
<i>Organizers</i>		
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Workshop Support

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