

Mid Continent Intensive Workshop: Synthesis of Inversion and Inventory Data

January 11-13, 2011

Armstrong Hotel, Fort Collins, CO

Host: Stephen Ogle (phone: +1 970-491-7662, email: ogle@nrel.colostate.edu)

Objective: The Mid-Continent Intensive is a regional scale study intended to improve estimation CO₂ fluxes at larger scales, and advance our understanding of the mechanisms driving the patterns. This workshop will review the preliminary synthesis results, discuss remaining issues and potential solutions, and finalize the plan to complete the synthesis including the preparation of products and manuscripts.

Schedule:

Tuesday January 11

- 8:30-8:50 Introductions and overview of workshop goals
- 8:50-9:10 Fine-Scale Ring 2 Inversions - Thomas Lauvaux (Penn State University)
- 9:10-9:30 Geostatistical Inversion Results for MCI – Vineet Yadav (University of Michigan)
- 9:30-9:50 Carbontracker Inversions for MCI Study – Gabrielle Petron (NOAA-Boulder)
- 9:50-10:10 Towards Optimal Representation of Sources for Mesoscale Carbon Dioxide Inversion with Synthetic Data – Lin Wu, Marc Bocquet, Thomas Lauvaux, Peter Rayner, Frédéric Chevallier, and Kenneth Davis.
- 10:10-10:35 Break (Coffee, Tea and Snack)
- 10:35-10:50 PBL Depth and its Impact on Carbon Budgets – Erica McGrath-Spangler (Colorado State University)
- 10:50-11:20 CSU inversion results and comparison of all inversions – Andrew Schuh (Colorado State University)
- 11:20-12:15 Open discussion on inversion results – led by Ken Davis (Penn State University)
- 12:15-1:30 Lunch
- 1:30-1:50 Fossil Fuel Emissions Inventory – Kevin Gurney (Arizona State University)

- 1:50-2:10 USGS Inventory of Carbon Stock Changes – Shuguang Liu (USGS- Eros Data Center)
- 2:10-2:30 EPIC Inventory of Carbon Stock Changes – Cesar Izauralde (DOE – PNNL)
- 2:30-2:50 Cropland Carbon Inventory – Tristram West (DOE- PNNL)
- 2:50-3:10 MCI Inventory – Stephen Ogle (Colorado State University)
- 3:10-3:35 Break
- 3:35-4:00 Model-Measurement Comparison for the Inventory Models - Francois-Xavier Toledo and Stephen Ogle (Colorado State University)
- 4:00-5:00 Open Discussion on Inventory Results led by Stephen Ogle (Colorado State University) and Tristram West (DOE-PNNL)

Wednesday January 12

- 8:30-8:50 Charge to Break-Outs

Concurrent Break-Outs

- 9:00-12:30 BOG I: Atmospheric Inversions
Moderator: Anna Michalak

- BOG II: Inventory
Moderator: Tristram West

- 12:30-2:00 Lunch
- 2:00-2:30 BOG Reports and Discussion
- 2:30-3:10 Reconciling Inversion and Inventory Results and Open Discussion – Dan Cooley (Colorado State University)
- 3:10-3:35 Break
- 3:35-5:00 Back to Break-Out Groups

Thursday, January 13

- 8:30-9:00 Manuscript Plans and Writing Assignments – discussion led by Stephen Ogle (Colorado State University)
- 9:00-10:30 Mini BOGs to prepare outlines and discuss content

10:30-10:55 Break

10:55-11:30 Reconvene with Open Discussion on Manuscripts

11:30-12:00 Wrap-up Comments and Adjourn