



Workshop on

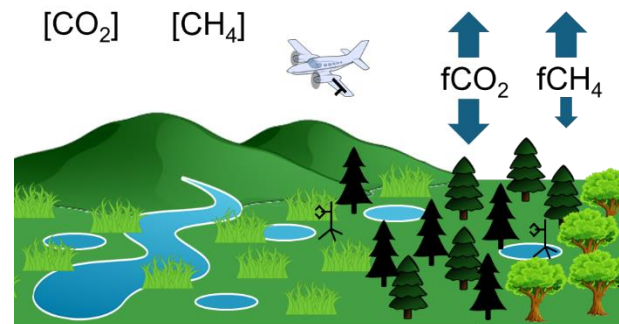
Evaluating carbon flux models with atmospheric observations

An opportunity for community discussion and hands-on applications

Most bottom-up carbon flux models are developed and evaluated with flux tower data, then compared to other models on landscape to regional scales, rather than atmospheric data
- which may lead to regional biases.

Through this workshop, we aim to address the historical disconnect between bottom-up and top-down carbon communities by:

- 1) providing additional resources and tools to carbon flux modelers for evaluating and improving their statistical and process-based models with atmospheric data.
- 2) enabling discussion about the current/future needs of each community to reduce uncertainty in both atmospheric constraints and bottom-up models.



1-4pm MT

Friday, May 24, 2024

UCAR Center Green 1 (CG1), Auditorium
Boulder, Colorado *and virtual*

Coffee and snacks provided (not by NASA)

Register at above.nasa.gov/meeting_2024

Open to all atmospheric carbon and surface carbon flux observation and modeling communities
Not limited to NASA ABoVE Science Team Meeting participants

Questions? Contact Luke Schiferl (schiferl@ldeo.columbia.edu) or
Jennifer Watts (jwatts@woodwellclimate.org)

Expected agenda:

- Welcome and introductions
- Intro to atmospheric measurements
Roisin Commane, Columbia University
- Intro to transport modeling
Luke Schiferl, Columbia University
- Intro to inverse modeling
Scot Miller, Johns Hopkins University
Lori Bruhwiler, NOAA
- Discuss future needs and use of atmospheric data
Colm Sweeney, NOAA
- Intro to regional analysis
framework for Arctic-boreal zone
- Hands-on work time (from 3pm MT)

Evaluate your carbon flux model*
during the workshop hands-on component

No atmospheric experience needed!
Just bring your bottom-up flux model
output (and computer running R)

Some pre-formatting of fluxes is required.
Please note during registration if interested in
hands-on component - instructions will be sent.

*ABoVE region (Alaska and northwest Canada)
bottom-up carbon (CO₂, CH₄) flux models only