

Introduction to the INTERFACE research coordination network



Jeffrey Dukes, Peter Thornton, Aimeé Classen,
Yiqi Luo, Bill Parton,
Lindsey Rustad, Elena Shevliakova



Goals

- Improve Earth system models by incorporating more realistic biological responses to GC
- Encourage design of field experiments, models that address most crucial needs of ESMs



The participants

- Global environmental change researchers, specifically:
 - Earth system modelers
 - Ecosystem modelers
 - Experimentalists



Activities

- Hold several workshops, working groups, international meetings, starting in 2011
- Facilitate cross-disciplinary training of students
- Involve students and postdocs in all activities



Initial topics

- Nutrient limitation: environmental drivers and carbon cycle consequences
- Responses of heterotrophic soil respiration to climate change across biomes and climates



Other possible topics

- Ecosystem responses to large-scale disturbances and extreme events
- Spatial interactions on the landscape; challenges of upscaling and downscaling
- Winter ecosystem dynamics in seasonal systems; seasonal cycles



Building blocks...

- Greater communication among research communities
- More examination of performance of ESMs vs. experimental data
- Identification of experimental research needs

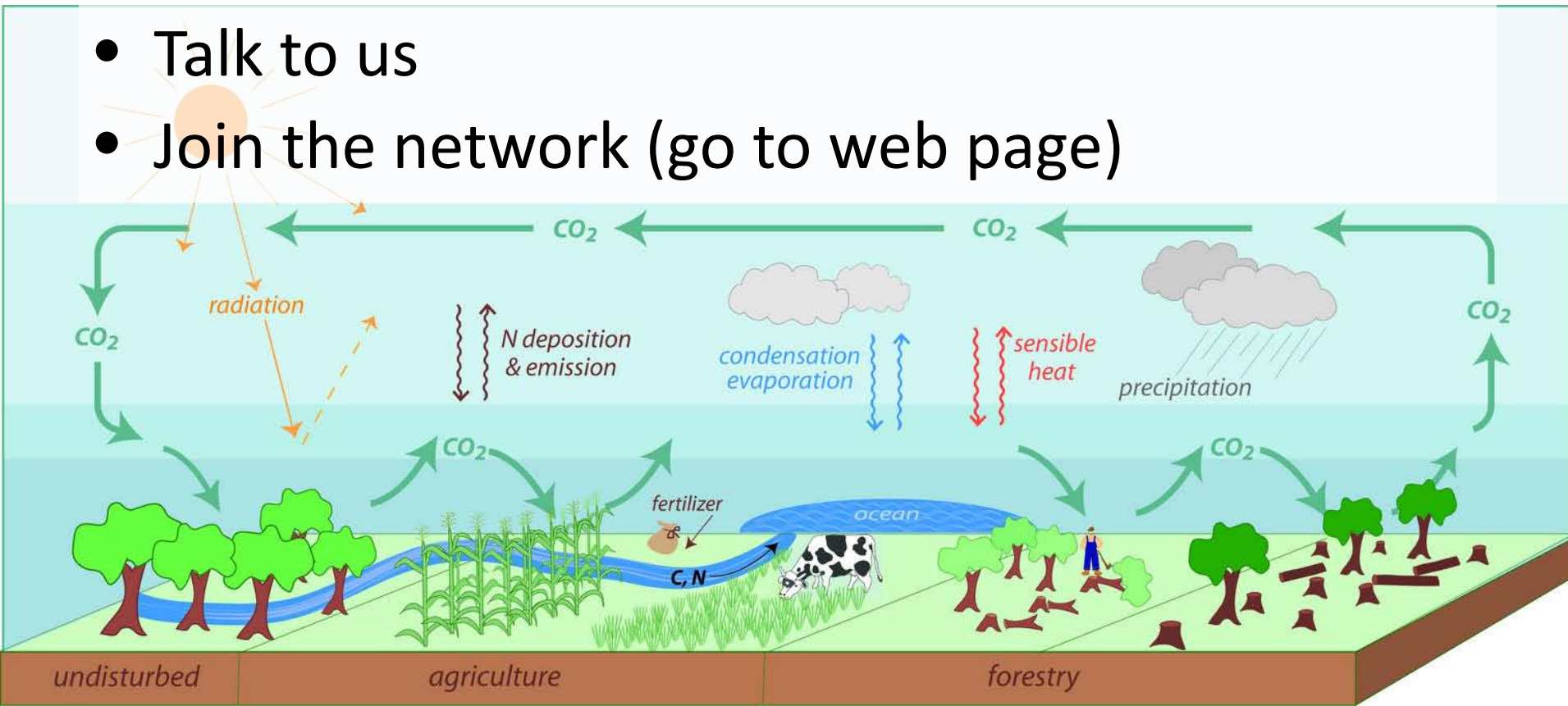


Please participate!

- Come to this afternoon's brainstorming session and provide input to the process

- Talk to us

- Join the network (go to web page)





An Integrated Network for **Terrestrial Ecosystem Research on Feedbacks to the Atmosphere and Climate (INTERFACE)**: Linking experimentalists, ecosystem modelers, and Earth system modelers



INTERFACE

The INTERFACE research coordination network brings together three groups within the global change research community:

1. Researchers conducting field experiments
2. Researchers who use ecosystem-scale models
3. Researchers working on land-atmosphere interactions in Earth system models (ESMs).

INTERFACE activities bring together these three groups to advance global environmental change research by

- Incorporating realistic biological responses into ESMs, and
- Facilitating the design of field experiments and computer simulations that are best suited to improving the performance of ESMs.

INTERFACE will hold a series of workshops, working group meetings, and international meetings, starting in early 2011. Watch this page for details. INTERFACE seeks to involve students and postdoctoral researchers in all activities, and will sponsor cross-disciplinary research experiences for students.

[ACTIVITIES](#)

[EARTH SYSTEM MODELS](#)

[ECOSYSTEM MODELS](#)

[GLOBAL CHANGE SITES](#)

[LINKS](#)

[PUBLICATIONS](#)

[NETWORK MAP](#)



Come join us tonight!

- Tonight, 5-7 pm
- Denver Room
- Food!
- Brainstorming session
- Help us determine the direction of the network!

