

**Working Group: Nonautonomous Systems and Terrestrial Carbon Cycle
Agenda for Meeting 3 (tentative and flexible)
November 17- 21, 2014
NIMBioS, Knoxville, Tennessee**

Participants:

Agusto, Folashade
Chen, Benito
Hastings, Alan
Hoffman, Forrest
Jiang, Jiang (NIMBioS postdoc)
Luo, Yiqi
Rasmussen, Martin
Smith, Matthew
Todd-Brown, Kathe
Wang, Ying
Wang, Ying Ping

November 16, Sunday: , Arrival at Knoxville

November 17, Monday

The major objective in day 1 is to present the results gotten since the second meeting, and redefine the goals of the this working group and strategies to achieve them

Starting at 9am:

- Progress report (work done; difficulties encountered; new questions that arose; potential new strategies/approaches; etc)
- Yiqi: Data from the simulation
- Ying: Global attractor analysis based on the simulation data
- Martin: Mathematical definition of residence time for non-autonomous system
- Matthew: Simulation results for residence time study
- Yingping: Nonlinear behavior of microbial models of soil carbon decomposition

Afternoon: group discussion on redefining/adapting goals and strategies/approaches.

- Mathematical representation of microbial role in decomposition of organic matter in terrestrial ecosystems (Yingping leads the discussion)
- Residence time (Alan, Martin, Matthew, Yingping, Ying)
- Global convergence (Martin, Matthew, Ying)
- Parameter space of terrestrial carbon cycle models (Matthew/Yiqi leads discussion)
- Other topics?

At 5:00ish: Summarize what we have discussed; identify the issues this group will continue to work on and new issues to begin to tackle during this meeting and coming months.

5:00 pm: Reception at NIMBioS (joint with *Evolutionary Approaches to Sustainability* WG)

November 18, Tuesday

The major objective in day 2 is to clearly identify the work this group is to do during the rest of this meeting and future. The group begins to carry out some specific tasks.

Starting 9:00am:

Kathe: Parameters that explain variations in CMIP5 results

Revisit the goals and tasks we identified in the previous day. We will decide specific agenda for this meeting.

We may divide this group into three or four subgroups to carry out the tasks we decided to do.

November 19, Wednesday

Continue the work or adjust specific agenda by then

Afternoon: Fun activities (bike riding, sightseeing at Smoky Mountains or other scenery places, or others).

November 20, Thursday

Morning: Keep working on the thing have decided to do by then.

Afternoon: Synthesize work done and discuss product(s) can be delivered by the group.

November 21, Friday

Morning: Keep working on the product(s), identify subgroups for the Skype meetings after this working group.

Afternoon: Discuss/plan future activity.

3:00pm adjourn