

LOGISTICS

Sunday 11-12:45

Communication

- Do both (cluster list serves and general list serves)
- Web site should contain a rich amount of information on project management
 - Teams, deliverables, reports, papers, etc.
- Need to announce that web site contains information
- Post all PowerPoints on web site rapidly (next week)

Communication

- Desire that the language in communication is not disciplinary specific
- We will bring in our Advisory Group

Organization

- Translate the proposal into a work plan (maybe use our advisory group for input)
- MSU composed of the cluster leaders will develop a work plan
- Each “consultant” needs to develop a draft SOW within the next couple of weeks

Gross Timelines for Next Year

- Land folks have some idea of what the next series of activities will be for the cluster to engage in...we don't have to wait for the climate group
- Case study analysis and the regional LTM/expert system
- Climate group needs to decide on model(s), computers, customization

Timelines

- Climate group (in first year)
 - Need to get the historical record and have this information downscaled
 - Need to make sure that the GCM and the downscaling (RCM) output is acceptable to the group
- NPP group
 - In first six months have all necessary data and then next six months use the downscaled RCM to get first version of the model runs

Interaction Activities

- Hire the postdoc by Jan 1 and this person is productive within 3 months
- What is being produced by June 04
 - Simulation of present data climate
- Land use group should look over the regRCM code to determine what the parameters (LAI, albedo) are necessary
 - And the seasonality variability of these parameters
 - Address scaling and spatial pattern issues too
- Need to start exploring the book ends and signal strength with first runs planned for Sept 04
- Also need to run a parallel effort to analyze the Hadley Center GCM for East Africa

Group Activities

- Need to have each person write up their “favorite” hypotheses that can be incorporated into the uncertainty white paper
- Bryan, Huebner, Palutikof develop white paper on uncertainty that is a “strategic document” as well – potentially is used for NSF’s new initiative in mathematical sciences for biophysical model advanced

Regional Climate Model

- Can have parallel activities running at the same time at different places
- Need to determine how RAMS and regRCM differ
- Need to have MSU's computational investment be realized by running model(s) here
- Make sure that any opportunities for comparative work to be conducted especially if we can improve collaborations (EA work dovetailed with main efforts)
- Good opportunity to do cross fertilization of modeling and data analysis with each of the groups (land and climate)

Study Site

- Do we look at a nested analysis to determine the effect of more exogenous factors that could drive regional land-climate interactions
- Could address this issue given computational challenges that we run models at fairly coarse scales
- Seems feasible that we could do a larger scale run fairly soon in the project
- There are some studies that suggest that large scale lucc changes do not alter regional or local climate (scalar effect is interesting if we just look at the local dynamics)
- Have to hope that the GCM (Hadley0 can tell the RCM something about ENSO
- There is some concern that we might need to consider large amount of the Congo if we want to have our papers pas peer review.

Future Funding

- Where do we go?
 - NSF IGERT (for domestic students)
 - NSF Geosciences Directorate to support PhD students (degrees are given in US but their field work done in EA; need to determine what the new science is). Support is for \$20K per year over 4 years (traditional proposal)
 - NSF and AfASci joint meeting (in two years so that we have some products to discuss)
 - For EA researchers – work with Eric Odeda is ongoing

Future Funding

- Two years – what will be in place then?
 - Infectious disease initiative (NIH)
 - Livestock Disease on basis of climate-land
 - Humans too (malaria)
 - Interactions of livestock and humans
 - Plant Genomics (drought resistance) (NSF)
 - Water is one of NSF's next big funding initiative
 - Surface water, ground water, water as a resource, water quality, social conflicts over water, distribution and dynamics, glacial caps and groundwater dynamics
 - There is one study in Tanzania that is nearing completion that could support another funded project
 - Need to find out more about the necessary data required to do groundwater flow and transport modeling
 - Mathematical/Statistical Sciences Coupled to Biophysical Modeling and Analysis (NSF)
 - NSF BE Coupled Biogeochemical Cycles (could do carbon or nitrogen)
 - NCEAS – Approaches/techniques
 - NSF Earth Sciences (April 1)

Future Funding

- Problem with getting funding for stipend and tuition for EA students with GEF funding – need to look over other sources

Acknowledgements and Authorship

- Things to consider
 - Do we look at other groups for protocols of authorship/credit (e.g., NSF LTER network)
 - Who does the work
 - Who contributed directly or indirectly
 - Grad students/postdocs as first author?
 - Scientific imperialism
 - Do we look at a book as a common outlet that would be very inclusive
 - Authorship ordering differs in each of the disciplines
 - Ordering cutoff credit varies too (>3rd in UK = no credit)
 - That paper writing goes on years afterward
 - Data sources and co-authorship outside the project are likely

Strategies

- Get LUCC endorsement
- LUCC newsletter
- Send IPCC lead authors our papers
- Develop a CLIP who/what poster that is posted on the web site
- Use the ILRI CGIAR press office to circulate research results
- Need to work with our university press offices to publicize

Self Identify

- Circulate papers (first draft) to all and have everyone to self identify (important because you forgot who gave the data for the work to be conducted)
- Circulate outlines to get clear authorship on components – first author decides on contributions and whether a new fragment fits
- Conflict resolution is with the PI