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 pass 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