Objective. 1. Review “Outcomes from Piracicaba”

Objective. 2. Identify focus Activities, and who will commit to doing what by when. Central focal Activities (see next)


Objective 4. Discuss a Workshop #2 Yes
- Mission? Focus on cross-focal activity evaluations
- Student modeling short courses? Discussion....
- When? ~ May 2007
- Where? TBD (Piracicaba? Ubatuba? Miami?)
- (R$/$) TBD
Land-Water Synthesis Activities
(focus on “synthetic” activities; under development .... “go”, under discussion, tabled/specific

I. Provision of datasets for respective synthesis activities

Activity 1. Provision of geospatial datasets, in support of synthetic, simulation modeling activities (->DIS)
*Detailed need depends on application: at least for modeled basins*

Activity 2. Provision of composite datasets and data-sharing for specific synthesis activities (-> DIS)
*Group-specific*

Activity 5. Provision of Scale-dependent surface climate forcing of hydrology and coupled biogeochemical models
*Big discussion!!!*

Activity 3. Ready access to published papers and datasets
*Straight forward*

Activity 4. River drainage networks: from small streams to regional floodplains
*Not in near term*
II. Hydrological Processes: from Hillslopes to the Atlantic

Activity 6. Flow path Differentiation as a function of soil type, topography, and landuse in lower order catchments: Hydrological and Geochemical Interpretations

• EMMA (Neill et al): Rancho Grande/Faz Vista Alegre, Juruena, Paragominas
• DHSVM modeling (Richey et al): Ji-Parana, Santarem, Cueiras, Paragominas

Activity 7. Why can’t we see microscale landuse change effects at the mesoscale?
Under discussion: Tomasella, Trancoso, Linhares, D. Victoria et al……

Activity 8. Controls on Regional Water Balances of Amazônia: 197x – 2005
III. Lateral transport: Evaluation of C and Nutrient Dynamics from Soils to Streams across Riparian Interface

Activity 9. Processes Controlling Solute (and Gas Fluxes) across Land/Stream boundaries
* Concentration/Q. Markewitz et al
* DHSVM-C Richey et al.

Activity 10. Relation of Regional GPP/NPP/C sequestration/litterfall to C Available for Export
Open question! Needs terrestrial production

Activity 11. Injection of Soil water CO2 into streams (of different orders)
Group specific, but model-potential

Activity 12. Composite Evaluation of Hydrology/BGC Models across small order streams
Incorporated elsewhere
IV. *Downstream advection and reaction, lateral exchanges and gas dynamics in large inundated areas.*

Activity 13. Nutrient Inputs Related to Nutrient Outputs at Multiple Scales
*Incorporated elsewhere*

Activity 14. Hydrological and Biogeochemical Scaling in the Ji-Parana River basin
*Incorporated elsewhere*

Activity 15. Transport, Reaction, and Outgassing of CO2
*More group-specific*

**Activity 16. Mesoscale-to Basin-scale**
*DHSVM-C/THMB  Richey, Coe et al*

Activity 17. Floodplains/River boundaries
*More group-specific*
IV. Downstream advection and reaction, lateral exchanges and gas dynamics in large inundated areas. (cont)

Activity 18. Rationalization of land/aquatic C cycle with overall basin C cycle (“new”)

V. More public “relevance” (new)

Activity 19. TBD.