

**4 Linking Activities 1 and 2 and Candidate Policybriefs**

|   | PB 1                     | PB 2                                       | PB 2A                                  | PB 3                                  | PB 3A                             | PB 3B                                 | PB 4                                  | PB 4A                    | PB 5                               | MSC  |
|---|--------------------------|--|--|---------------------------------------|-----------------------------------|---------------------------------------|---------------------------------------|--------------------------|------------------------------------|--|
|   | Debunking myths          | Deforest'n & vulnerability in large basins | Deforest'n & large-scale flooding      | Local hazards                         | Local hazards, pantropic problems | Reforest'n & water supply             | B'diversity cons thru watershed mgmt  | B'diversity indicators   | B'logical riches and human poverty | X-cutting policy manuscript                        |
| <b>Assessment of priorities @ 3/10/03</b><br><i>(assessment of priorities to be clarified at meetings on 11-12/10/03)</i> | "A"                      | "A"?                                       | "A"                                    | "B"                                   | ??                                | "B"                                   | "B"                                   | "B"?                     | "A"?                               | ??   |
| <b>OVERALL REMARKS @ 3/10/03</b>  | First draft nearly ready | Combine with #1?                           | Basics done; model output on track (?) | Basics done in Phase 1; model output? | Not feasible in 2003              | Basics done in Phase 1; model output? | Basics done in Phase 1; model output? | Not anticipated for 2003 | Is rural / urban split available?  | Depends on full range of model results (published) |
| <b>ACTIVITY 1 PHASE I: Biophysical &amp; human geography of humid tropics</b>   |                          |  |  |                                       |                                   |                                       |                                       | X                        | X                                  | X  |
| <b>ACTIVITY 1 PHASE II: Pantropic/meso scale analysis and synthesis</b>   |                          |  |  |                                       |                                   |                                       |                                       |                          |                                    |  |
| <i>Activity 1A Improved spatial characterization of the focus area at the pantropic scale</i>                             |                          |  |  |                                       |                                   |                                       |                                       |                          |                                    |  |
| i biodiversity-rich tropical habitats   |                          |  |  |                                       |                                   |                                       | X                                     | X                        | X                                  | X  |
| ii human population distribution  | X                        | X  | X                                      |                                       |                                   |                                       |                                       |                          | X                                  | X  |
| iii land cover scenarios  | X                        | X  | X                                      |                                       | ??                                |                                       | X                                     |                          | X                                  | X  |
| iv synoptic modeling of hydrological impacts of land use change (WBM)   | X                        | X  | X                                      |                                       | ??                                |                                       |                                       |                          |                                    | X  |
| <i>Activity 1B Pantropic assessment of the potential threat posed by hydrological disturbance</i>                         |                          |  |  |                                       |                                   |                                       |                                       |                          |                                    |  |
| i. identify hydrological "hotspots"   | ??                       | X  | X                                      |                                       | ??                                |                                       | ??                                    |                          |                                    | ??   |
| * pantropic assessment of local hazards   |                          |  |  |                                       | ??                                |                                       |                                       |                          |                                    |  |

|   | PB 1            | PB 2                                       | PB 2A                             | PB 3          | PB 3A                             | PB 3B                     | PB 4                                 | PB 4A                  | PB 5                               | MSC                         |
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|   | Debunking myths | Deforest'n & vulnerability in large basins | Deforest'n & large-scale flooding | Local hazards | Local hazards, pantropic problems | Reforest'n & water supply | B'diversity cons thru watershed mgmt | B'diversity indicators | B'logical riches and human poverty | X-cutting policy manuscript |
| <b>ACTIVITY 2 PHASE I: Scale of effects of land cover change on watershed functions in the humid tropics (and related activities)</b> | X               | X  | X                                 | X             |                                   | X                         |                                      |                        |                                    | X                           |
| <b>ACTIVITY 2 PHASE II: Micro/meso modeling of hydrological effects and cross-scale reconciliation of models</b>                      |                 |  |                                   |               |                                   |                           |                                      |                        |                                    |                             |
| <i>i. regional land use change scenarios in Mekong Basin</i>  | X               | X  | X                                 | ??            | ??                                |                           |                                      |                        |                                    | X                           |
| <i>ii. VIC model at medium resolution for Mekong Basin</i>  | X               | X  | X                                 | ??            | ??                                |                           |                                      |                        |                                    | X                           |
| <i>iii. WBM model at medium resolution</i>  | X               | X  | X                                 | ??            | ??                                |                           |                                      |                        |                                    | ??                          |
| <i>iv. Characterize hydrological hotspots in Mekong basin at medium resolution</i>  | ??              | X  | X                                 | ??            | ??                                |                           |                                      |                        |                                    | ??                          |
| <b>Activity 2 B. Meso-scale modeling for Central America (WBM)</b>  | ??              | ??   | ??                                | ??            | ??                                |                           |                                      |                        |                                    | ??                          |
| <b>Activity 2 C. Micro-scale modeling and micro-meso comparison in SE Asia</b>  |                 |  |                                   |               |                                   |                           |                                      |                        |                                    |                             |
| <i>i. Develop local land use change scenarios in SE Asia</i>  | ??              | ??   |                                   | X             | X                                 | X                         |                                      |                        |                                    | X                           |
| <i>ii. GenRiver/SpatRain model at fine resolution</i>   |                 |  |                                   | X             | ??                                | ??                        |                                      |                        |                                    | ??                          |
| <i>* VIC model at med/fine resolution for Mae Chaem/Ping (Chao Phrya?)</i>  |                 |  |                                   | ??            | ??                                | ??                        |                                      |                        |                                    | ??                          |
| <i>* DHSVM model at fine resolution</i>   |                 |  |                                   | ??            | ??                                | ??                        |                                      |                        |                                    | ??                          |
| <i>* virtual watersheds for pantropic assessment of local hazards</i>   |                 |  |                                   | ??            | ??                                | ??                        |                                      |                        |                                    | ??                          |

|   | <b>PB 1</b>            | <b>PB 2</b>   | <b>PB 2A</b>                                 | <b>PB 3</b>                 | <b>PB 3A</b>                             | <b>PB 3B</b>                         | <b>PB 4</b>                                 | <b>PB 4A</b>                  | <b>PB 5</b>                               | <b>MSC</b>                             |
|---|------------------------|---|--|-----------------------------|--|--------------------------------------|---|-------------------------------|---|--|
|   | <b>Debunking myths</b> | <b>Deforest'n &amp; vulnerability in large basins</b> | <b>Deforest'n &amp; large-scale flooding</b> | <b>Local hazards</b>        | <b>Local hazards, pantropic problems</b> | <b>Reforest'n &amp; water supply</b> | <b>B'diversity cons thru watershed mgmt</b> | <b>B'diversity indicators</b> | <b>B'logical riches and human poverty</b> | <b>X-cutting policy manuscript</b>     |
| <i>iii. poverty and biodiversity implications of local interventions that would modify land use patterns so as to moderate changes in hydrological processes</i>  |                        |   |  | <b>X</b><br>(interventions) | <b>X</b><br>(interventions)              | <b>X</b><br>(interventions)          | <b>X</b> (interventions)                    |                               | <b>X</b><br>(interventions)               | <b>X</b> (interventions)               |
| <i>iv. Synthesizing the results of activity 1 and 2, formulate generalizations on the impact of relevant land use changes on hydrological processes (and biodiversity) as a function of watershed scale, land cover/land use, climate, and topography</i> |                        |   |  |                             |  |                                      |   |                               |   | <b>X</b> (what this activity is about) |

Legend:

\* indicates an activity that was not in the original Phase II plan

**X** indicates activity (row) output as a policybrief (column) input

Legend for 'overall remarks':

**A** indicates candidate policybrief for 1/12/03 deadline

**B** indicates candidate technical note for 1/12/03 deadline to be refined further as a policybrief in 2004

**??** Indicates considerable uncertainty about completion of activity in 2003 or development of a policybrief in 2004