

Thursday Agenda 08:30 AM Yesterday's Recap Agenda for the Day Henry Manguerra 08:45 AM Introduction to Hands-on Testing Process Cate Brown 09:00 AM Hands-on practical and testing adjustments BioRA consultants 10:00 PM COFFEE BREAK 10:30 AM Hands-on practical and testing adjustments BioRA consultants LUNCH 12:00 PM PARALLEL SESSION (UP TO TWO FROM EACH COUNTRY) – INFORMALLY DISCUSS OUTSTANDING COUNCIL STUDY ISSUES (ROOM 105 TENTATIVE) 01:00 PM BioRA consultants Hands-on practical and testing adjustments 03:00 PM COFFEE BREAK 03:30 PM Hands-on practical and testing adjustments BioRA consultants 05:00 PM Close for the day www.mrcmekong.org

Summary



Workshop Objective	Coverage	Notes
Knowledge Transfer - Technical Report	Yes	Preliminary Calibration – Volume 3 Status and Trends
Knowledge Transfer – DSS	Yes	Hands-on
DSS Testing	Yes	Introduction/Context
Compilation of Comments – Technical Report and DSS	Yes	See next slides

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Knowledge Transfer



- Presentation and discussion on the following:
 - Calibration results Geomorphology, Fish, Herpetofauna (Interim Report Volume 1)
 - Status and Trends (Interim Report Volume 2)
 - Users Guide (Interim Report Volume 3)
- Hands-on
 - Interrogating and exploring scenarios
 - Running scenarios

Comments



- Notion: FA1 characterized by bedrock channel, erosion will be limited
 - False notion because of the fact that the bedrock channel is overlain by a thick layer of sediments
 - Observation that the movement of sediment during the season (deposition and erosion/incision) could be as deep/thick as 9-10 meters
 - Field visit to Mekong River could have been educational
- Relative change in clarity between CS4 (25 percent reduction in sediment) and CS10 (75 percent reduction in sediment) is related to TSS threshold = 50 mg/li
 - Below this threshold, clarity increases tremendously
- Choice of sediment reduction (25 and 75 percent reductions) for CS4 and CS10 were completely arbitrary. They were not directly attributed to any water resources developments

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Comments



- Changes in geomorpohology is the next most important driver after flow, sediment, and water quality as all other ecosystem discipline indicators (e.g., vegetation, fish, herpetofauna, etc) also depend on it
- Selection of indicators is based on the major expected drivers.
 For example for fish indicators, the main drivers are:
 - Hydrological changes
 - Geomorphological changes
 - Food
 - Connectivity
- Other considerations for selecting indicators include data availability and time/budget constraints
 - Initial: 50 linked indicators/indicator/FA for fish
 - Current: 10-12 linked indicators/indicator/FA for fish

Comments



- For the overall results, in addition to seasonal means, provide also the annual means of changes in the indicator values
- · Fish Diversity vs. Fish Abundance
 - Relative change in abundance in guild (and not individual species or diversity)
- Onset of dry season, and onset of wet season reiterated as important for migration and spawning and these are accounted for in the DSS
 - Indicators
 - CS3 includes the timing in addition to shortened session

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Comments

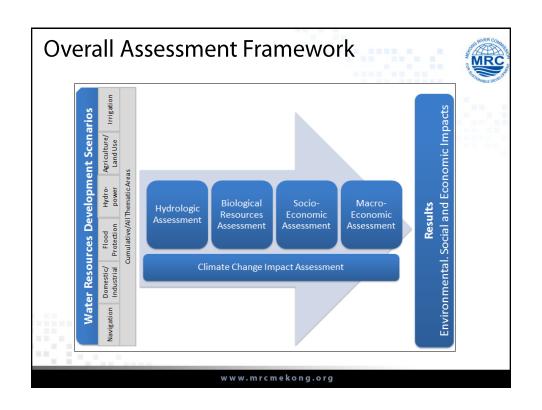


- The completion/finalization of the response curves follows dependencies between disciplines
 - Geormorphology indicators can be completed without waiting for other ecosystem indicators
 - Fish and Herpetofauna depend on geomorphology and other ecosystem indicators such as vegetation

Comments



- On Thursday morning, review some of the basic concepts that were presented/discussed on Monday
- For testing on Thursday, we need to reinstall a clean copy of the DSS
- On Friday, dedicate a time to hear overall comments from MCs on the report and DSS (3:30 pm Friday)
 - In particular, need comments on S&T
- Presentation on exogenous factors
 - Not due to water resources development factors (e.g., hunting pressures, etc).
 - Combined and is meant to tease out the impact solely of water resources developments
- Comment on geographic units?
- Review how BioRA DSS will be used for assessment of cumulative scenarios



Three Sequential Activities of the BioRA Team



- SETUP AND CONSTRUCT RESPONSE CURVES: Setup of the BioRA DSS which includes the construction of the response curves through KNOWLEDE CAPTURE
 - Using Preliminary Reference Scenario
- CALIBRATE: Calibration of the BioRA DSS
 - Using Calibration Scenarios (and Test Scenarios)
- APPLY (ANALYSIS): Application of the BioRA DSS to assess development scenarios
 - Using Cumulative Scenarios 2007, 2020, and 2040

