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For sustainable development


BioRA DSS Workshop

Interrogating scenarios

BioRA DSS Technical Workshop
Phnom Penh, Cambodia
15-19 February 2016

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Scenarios



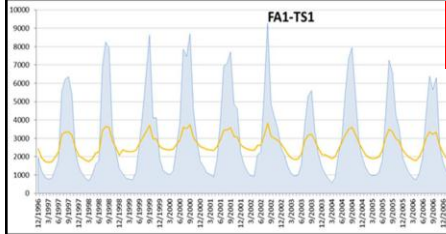
| Code | Description | FA1 | FA2 | FA3 | FA4 | FA5 | FA6 | FA7 | FA8 |
|-------------|---|-----|-----|-----|-----|-----|-----|-----|-----|
| PRef | *Hydrology:1985-2008 climate, 2007 infrastructure, 2003 landuse *Measured WQ and sediments | | | | | | | | |
| CS1 | High dry season flow, low wet season flow (muted) | | | | | | | | |
| CS2 | 6 dry years, followed by 6 wet years, etc. | | | | | | | | |
| CS3 | Short wet season | | | | | | | | |
| CS4 | Sediment = 75% of Pref | | | | | | | | |
| CS5 | Migration blocked between FA1 and FA2 ONLY | | | | | | | | |
| CS7 | Extreme dry year (1992 less 10%) repeated | | | | | | | | |
| CS8 | Migration blocked between FA4 & 5 ONLY | | | | | | | | |
| CS9 | Migration blocked between FA1 & 2 AND FA4 & 5 | | | | | | | | |
| CS10 | Sediment supply at 25% of preliminary reference | | | | | | | | |
| TS1 | Similar to CS1: More muted | | | | | | | | |
| TS2 | 6dry years, 6wet years: 1989(dry), 1995(wet) | | | | | | | | |
| TS3 | Combination: TS1, CS5, CS10@FA1 reducing downstream) | | | | | | | | |
| TS4 | PRef + exogenous pressures | | | | | | | | |

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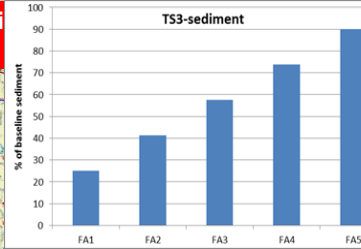
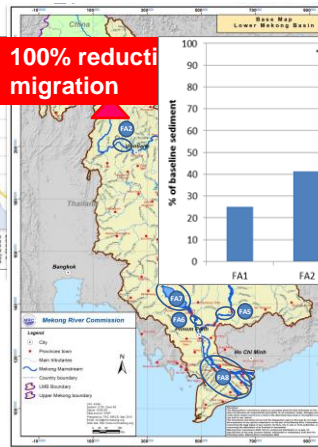
New test scenarios (TS..)



FA3



100% reduction migration



FA4

TS4: Prelim. Reference with ongoing exogenous pressures

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INFORMATION AVAILABLE



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Information available



- BioRA DRIFT-DSS:
 - Response curves
 - Evidence-based explanations
 - Seasonal time-series of each indicator for each scenario
 - Average percentage change of each indicator for each scenario
 - Discipline integrity
 - Overall ecosystem integrity

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Information available



- Excel spreadsheets:
 - Annual time-series of each indicator for all scenarios
 - Percentage changes of each indicator
 - Discipline-level integrity
 - Overall ecosystem integrity

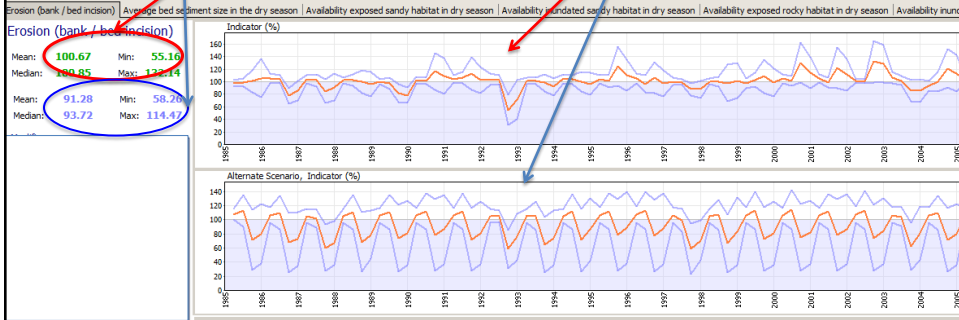
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Knowledge capture: Response curve pages



Comparative overall averages (&min,max)

Comparative seasonal time-series

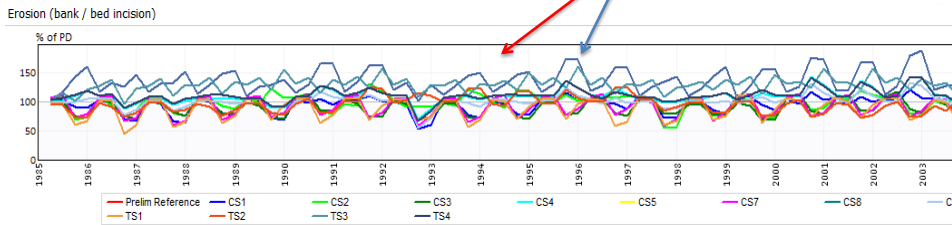


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Analysis: Charts page



Comparative seasonal time-series: all scenarios



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Excel files: first need to export from DRIFT and import into Excel



- Analysis
 - Run Model
 - Run All
 - Wait until finished running
- Click export button
 - Export annual results (all scenarios)
 - Select each scenario, Export integrity

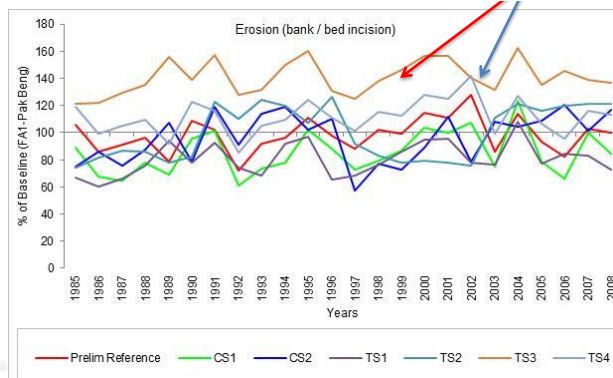
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Import into Excel (TS)



- Click “Collect time-series data”
- View graphs of all indicators all disciplines all scenarios

Comparative **annual** time-series: all scenarios



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Thank You



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