

Priming the pump: Discussing scenario testing for Ecofore

May 4, 2010

What did we propose?

- Future forecasts based on linkage between 3 teams
- Watershed model application
- Future scenarios
 - P inputs trend analysis
 - Climate/Landuse changes: DLBRM (hydrology) and stream monitoring data (P loads)
 - Agricultural Best Management Practices (BMPs): SWAT (hydrology, sediments, nutrients)

Where are we now?

- P trends seen in Han and Dolan work
 - Could be used to forecast?
- BMP implementation
 - SWAT BMP work ongoing with some issues
- Climate/Land use
 - DLBRM and monitoring data should be ready to go; ready to combine and forecast?
 - Could we use SWAT for climate change as well?

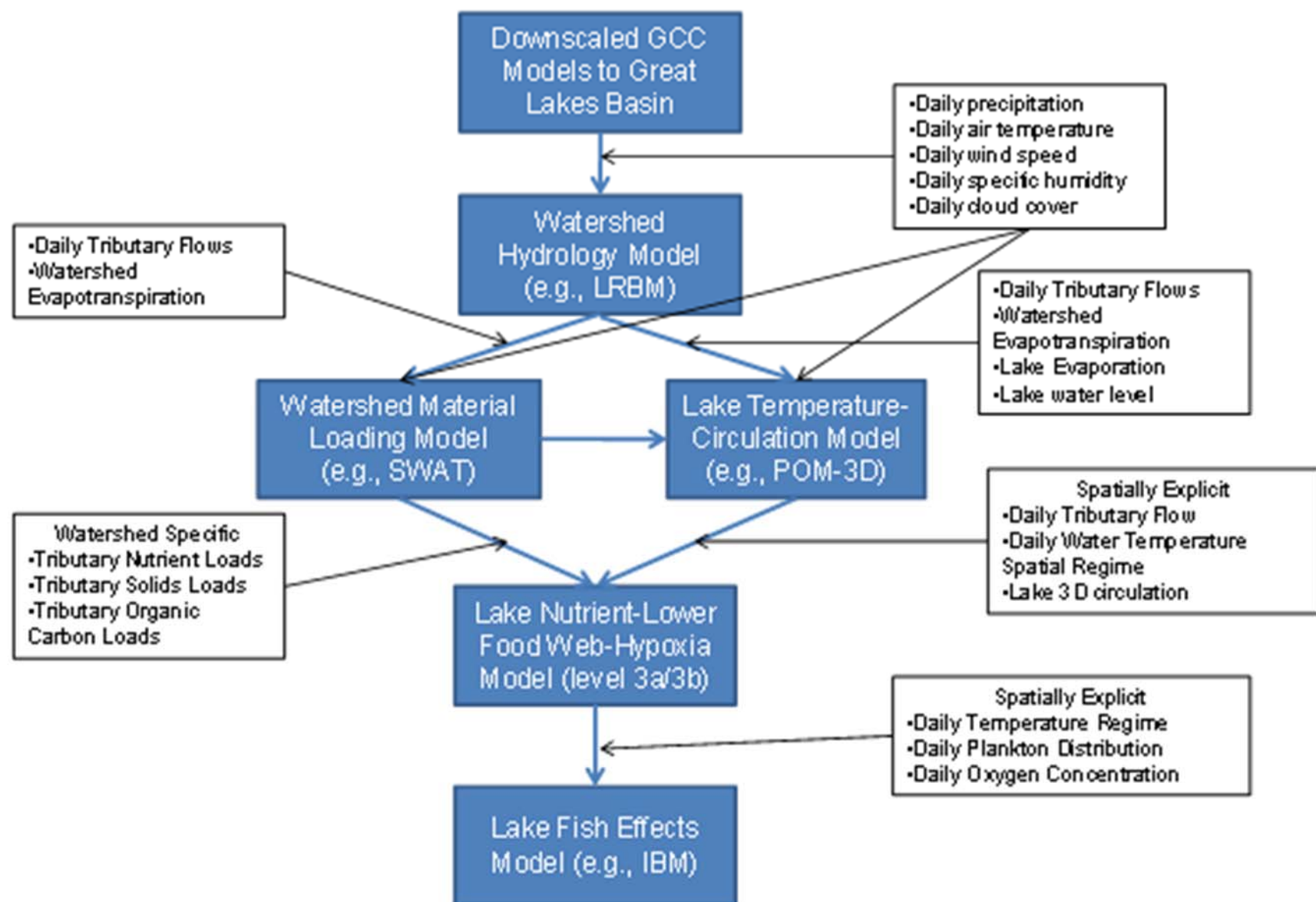
BMP scenarios: SWAT

- BMP effectiveness
 - No-til corn and soybeans (+25% adoption)
 - 10 m buffer strips (+20% adoption)
 - Cover crops after soybean (+25% adoption)
 - Combination of all 3
- BMP location
 - Check source areas for Maumee only
- BMP vs source reduction

Climate/Landuse scenarios

- Are we still thinking about doing landuse?
- Climate scenarios:
 - Which models will we use?
 - What conditions are we going to try?
 - How do we translate to model input?

Data Flow through EcoFore Models for Climate Scenarios



Unanswered questions:

- Can we use Dolan and Han trends work to forecast as proposed?
- Are we still thinking about doing landuse scenarios?
- Climate scenarios:
 - Which models will we use?
 - What conditions are we going to try?
 - How do we translate to model input?