Using Multiple Models for Management in the Chesapeake Bay - Implications for Regulatory Decisions (M3.2 workshop)

Steering Committee:

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Logistics

- Proposed by Gary Shenk
- Approved by STAC March 2012
- 2-day workshop
- Sept-Oct
- DC-Annapolis Area
- Report to summarize state-of-knowledge for ~6 objectives

Objectives

- Catalog the various meanings of the term “multiple models” (the different ways multiple models can be used)
- Identify which meanings have been used by STAC, the CBP, and other CB stakeholders

Objectives

- Catalog the advantages (and disadvantages) of multiple models
  - in addressing scientific questions
  - in supporting management decisions
- Present case studies of past successes (and failures) of multiple models in decision making and regulation, esp. water and water quality management

Objectives

- Consider how multiple models can (or cannot) work, given CWA requirements & standards for setting & enforcing TMDLs (especially the CB TMDL)
- Describe how CBP models are currently used in management decisions & how this might change with multiple models

Objectives

- Consider the practicalities
  - Who would develop, calibrate, & apply MMs?
  - How would MM activity be funded and governed?
  - How would MM relate to the proposed modeling lab?
- Assess interest & support for M3 among CBP partners

Interested in discussion of . . .

Possible MM case studies

- Water and water quality
  - USGS flood forecasts
  - NOAA river forecasts
  - Hudson river PCB studies
  - Neuse river (Ken Reckhow)
- Non-water issues
  - Toxic exposure models
  - GCMs (IPCC assessment)
  - Hurricane modeling
  - Deep water horizon spill

Possible presenters and attendees

Looking for more steering committee members

- Additional watershed modelers
- Legal experts on CWA and TMDLs