

Science, Technical Analysis and Reporting

Mike Barnes

Chesapeake Research Consortium
STAR Staff

Chesapeake Research Consortium,
Edgewater, MD, USA



Staff Support

- Science, Technical Analysis and Reporting
- Modeling Team
- Watershed Technical Workgroup (Water Quality GIT)



STAR Current Activities

- STAR/Indicators Workgroup Topical Meeting
 - Thursday, September 22, 2011, 9:30-3:30pm
 - Assist CBP in planning for assessments, accountability and outreach during the coming year
- STAR/GIT Coordination Meetings
- Modeling Quarterly Review, October 4th and 5th, 2011

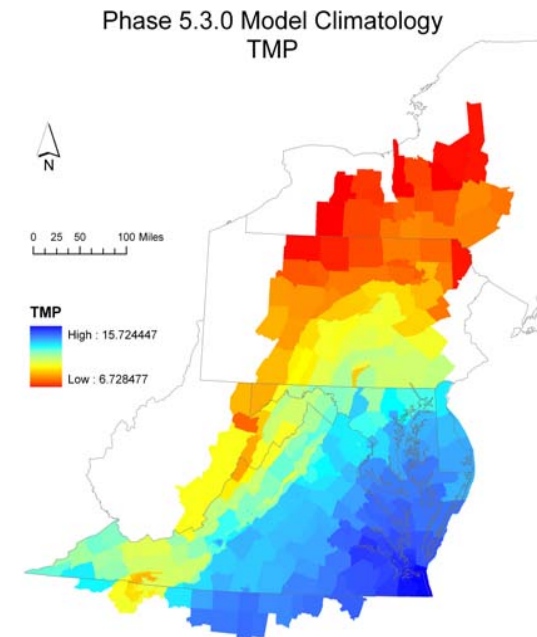
Figure 1. Chesapeake Bay Program Indicator Framework.



↑ = direct numerical relationship

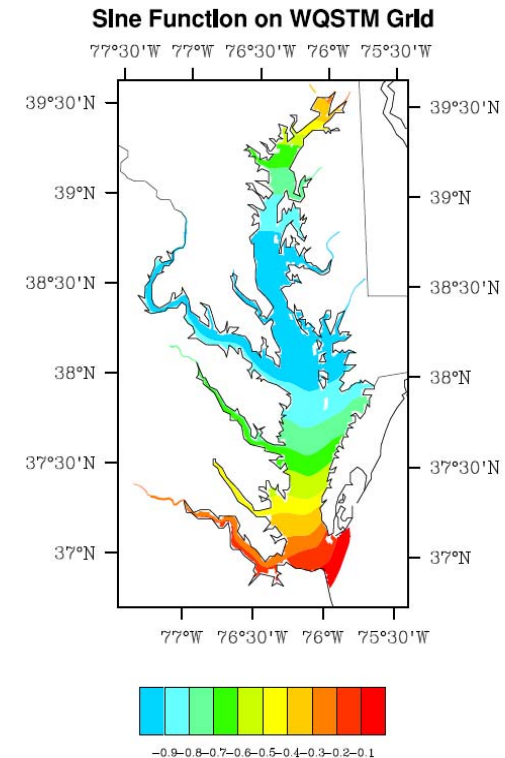
Current Projects

- USGS/STAC/PSU Climate Watershed Model Study
 - Phase 5.3 Chesapeake Bay Watershed Model under climate modified input schemes
- Completing climate runs for 6 IPCC climate models for SRES A2 emissions scenario

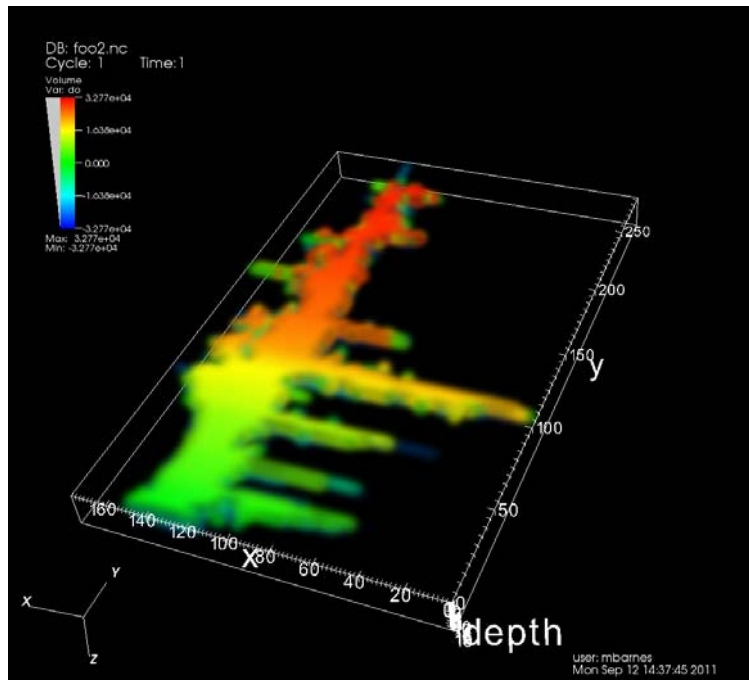


Water Quality Sediment Transport Model Output Project

- Use existing open source software tools to enhance model output retrieval and visualization
- Writing a Fortran postprocessor to create a netCDF file
- Benefits
 - Portability
 - Size
 - Readily Visualized
 - Handling of metadata
 - Makes additional analysis tools available



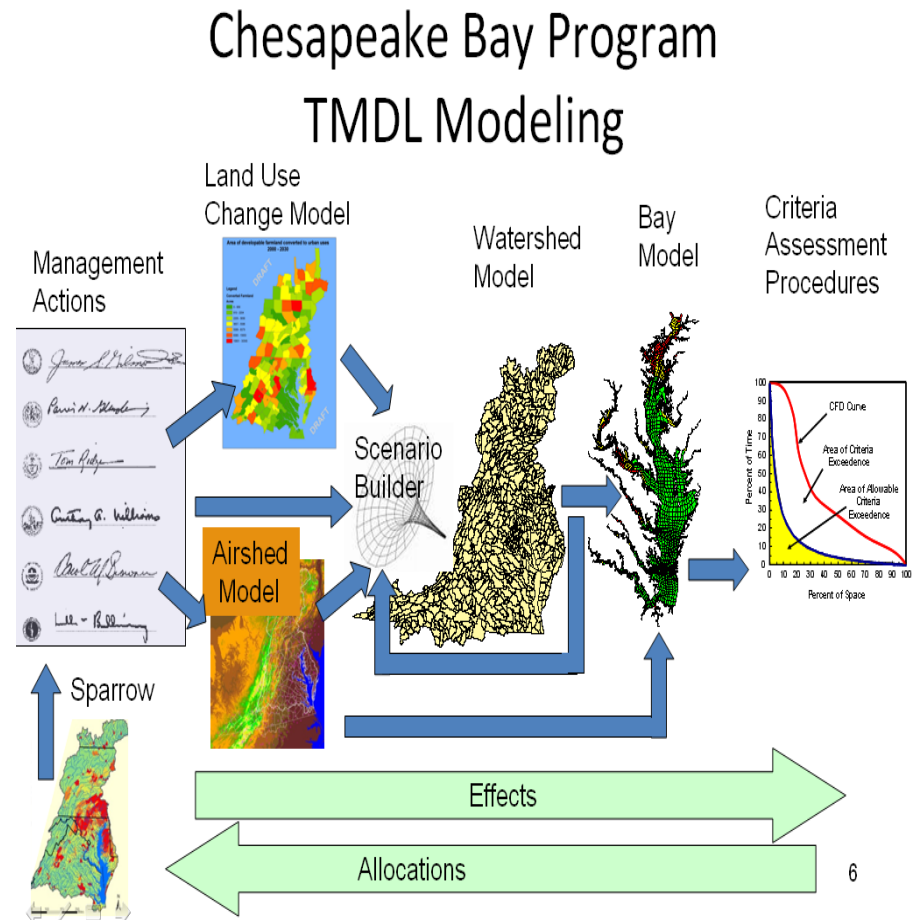
Example



- Example file with dummy data visualized with Visit viewer
- Capabilities
 - Animations
 - 3d visualization and analysis tools

Modeling Team Support Activities

- Watershed Modeling
 - Currently testing a download version of the Phase 5.3.2 Watershed Model for community model
 - To be shared through CCMP website



Future Interests

- Graduate School
- Work as Hydrologist
- Environmental education



Questions?

- Mike Barnes
Chesapeake Research Consortium
Science, Technical Analysis and Reporting Staffer
mbarnes@chesapeakebay.net
410-295-1328