

Session S

SMS Steering Module and Sediment Transport



CIRP

Fourth Annual Technology-Transfer Workshop



Steering Module Objectives

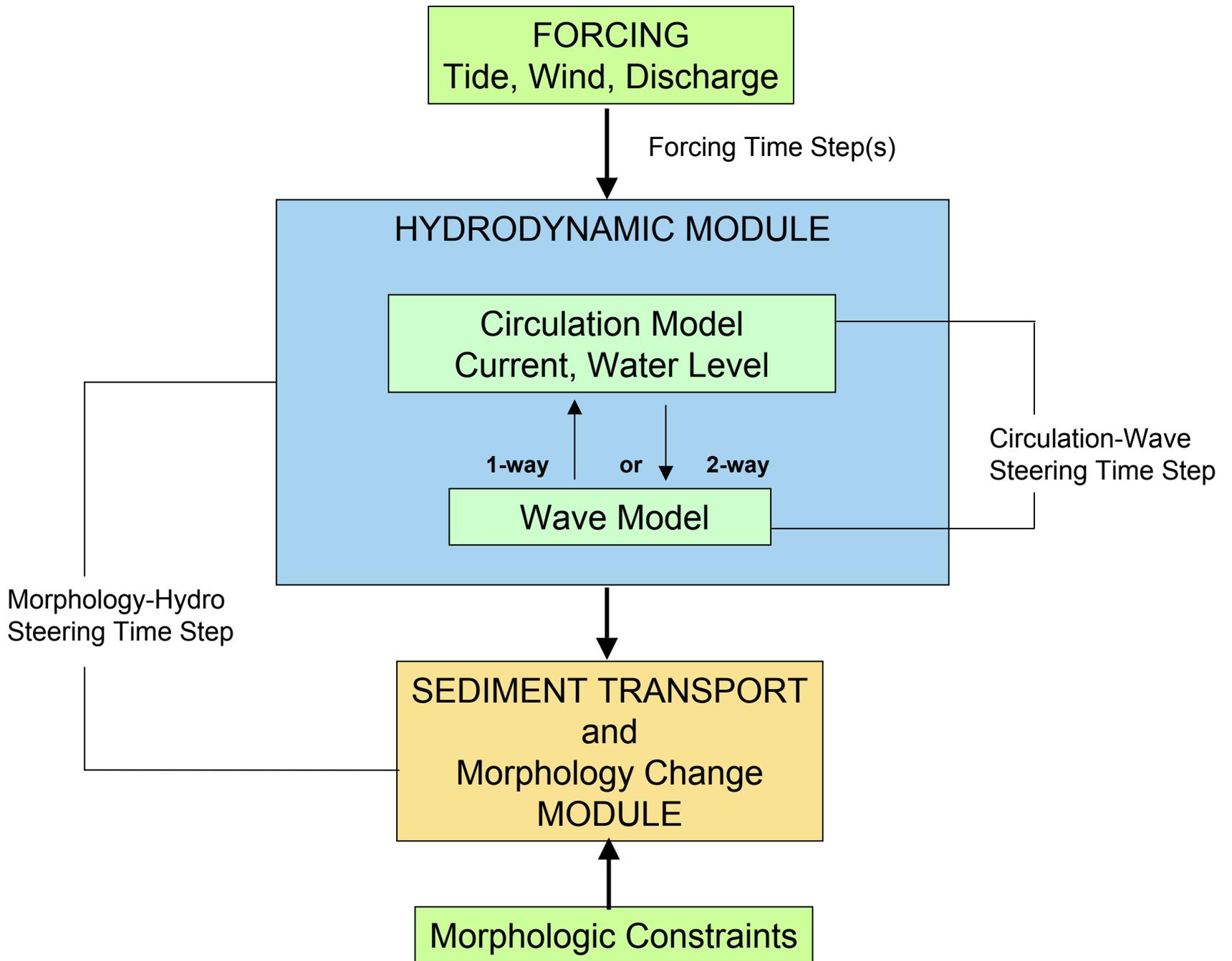


- Represent interactions of physical processes
- Simplify coupling (data sharing) between models
- Monitor model runs
- Save time by automating repetitive user tasks
- Achieve more accurate results from models
- Provide flexibility in feedback options between models

Steering vs. Conventional Methods



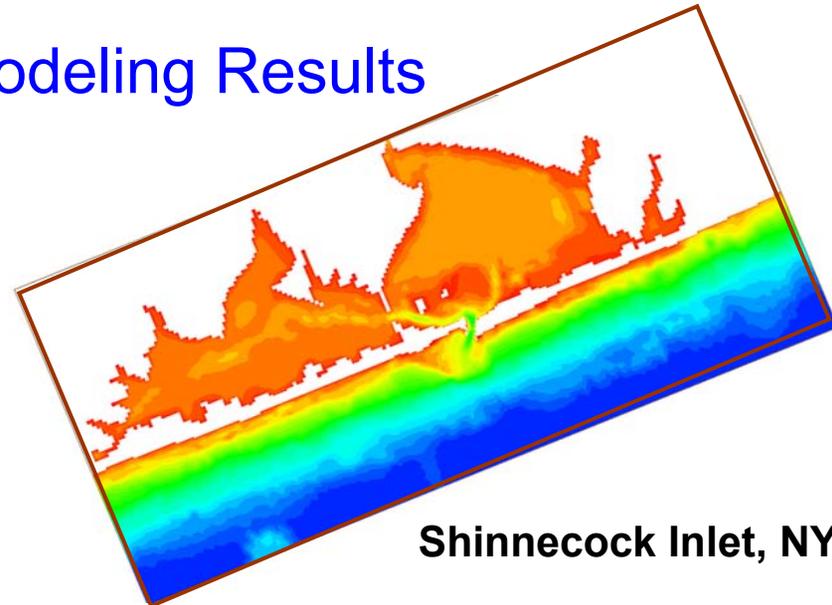
- Conventional Method
 - Repetitive manual data interpolation
 - User monitors model runs
 - Time intensive
 - Too labor intensive to be practical in applications
- Steering Module
 - Automated data interpolation
 - SMS monitors model runs
 - Reduces overall time to run models
 - Less user error; produces more accurate results
 - Allows decisions about type and frequency of coupling



Overview of Presentations



- M2D Circulation Model
 - Capabilities
 - Coupling with ADCIRC
 - Coupling with STWAVE
 - Sediment transport/morphology change
- Demonstration: Steering Module Modeling Results
- Demonstration: M2D Tutorials
 - Shinnecock Inlet
 - Idealized Inlet



Shinnecock Inlet, NY