What is a model?



School of Geosciences

Output

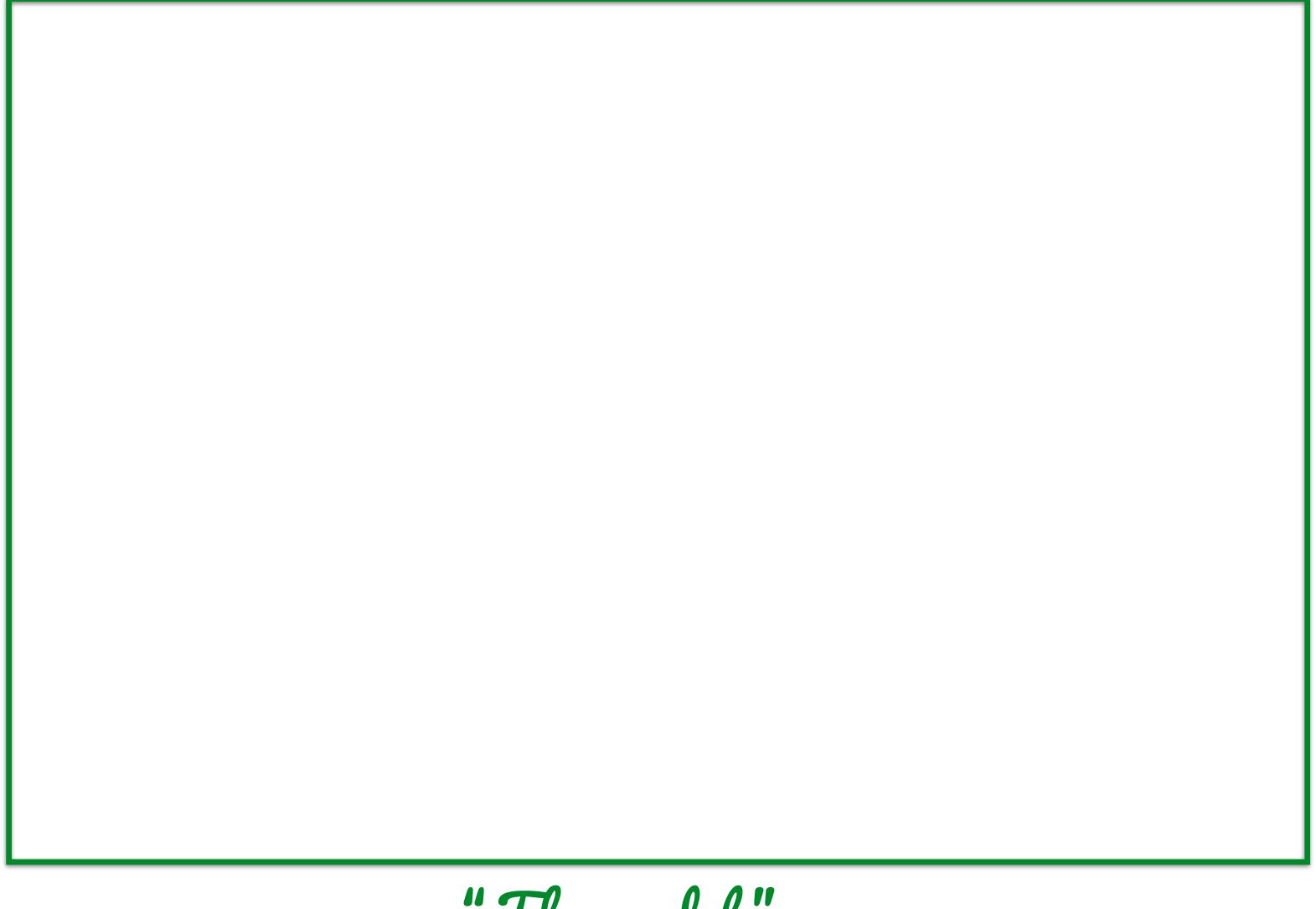
Information that sets the boundary conditions for a model

- bathymetry & topographywind data
- pressure fields
- wave parameters
- sediment types
- grid...





Mathematical equations or numerical approximation - Xbeach - Delft 3D - SWAN - ADCIRC - ELCIRC FVCOM...



"The model"

Storm prediction Beach morphology Sediment transport

What is a model?

Data

Code

Information that sets the boundary conditions for a model

Mathematical equations or numerical approximation

- bathymetry & topography
- wind data
- pressure fields
- wave parameters
- sediment types
- grid...

- Xbeach
- Delft 3D
- SWAN
- ADCIRC
- ELCIRC
- FVCOM...

Output

Storm prediction

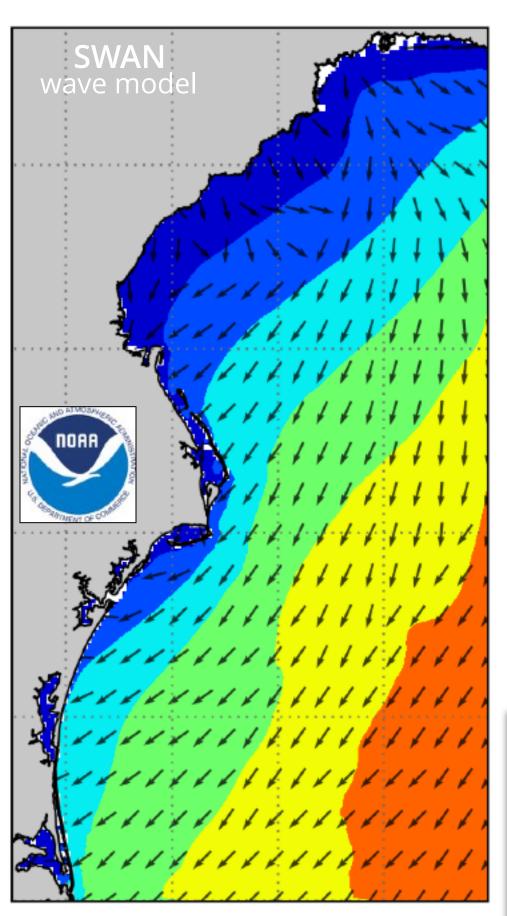
Beach morphology

Sediment transport

• • •

Modelling concepts

What are numerical models?



Set of Equations



Numerical algorithms



Computer codes

