

Data

What is a model?

School of Geosciences

Ccode

Output

Information that sets the
boundary conditions for a
model

- bathymetry & topography
- wind 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

Information that sets the boundary conditions for a model

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

Code

Mathematical equations or numerical approximation

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

Output

Storm prediction
Beach morphology
Sediment transport
...

"The model"

Modelling concepts

What are numerical models ?

- Set of Equations
- ↓
- Numerical algorithms
- ↓
- Computer codes

