



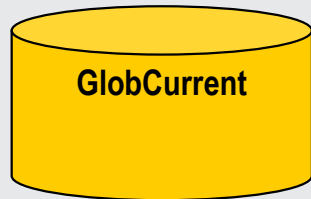
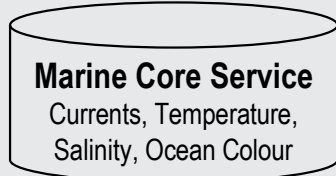
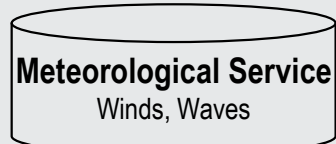
NWAG

GlobCurrent – User Benefits in the Offshore Industry

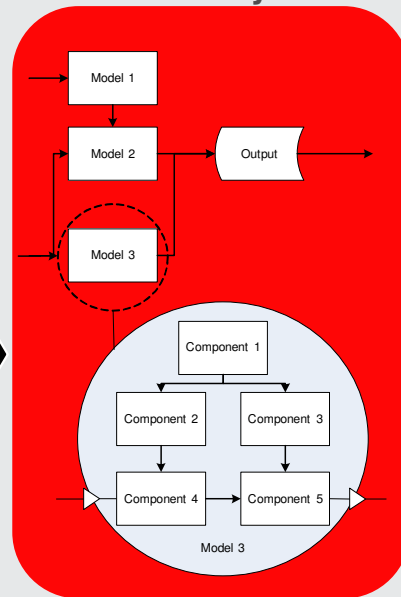
L. Grignon (HR Wallingford)
 K. Millard (SeaZone)
 G. Buswell (Logica)

The GlobCurrent Value Chain

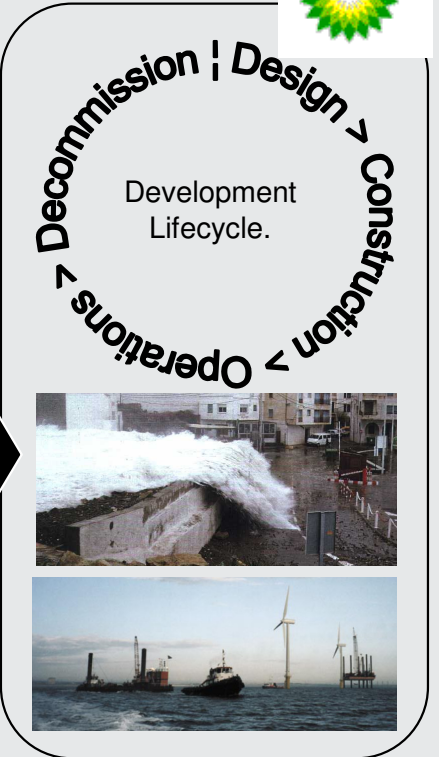
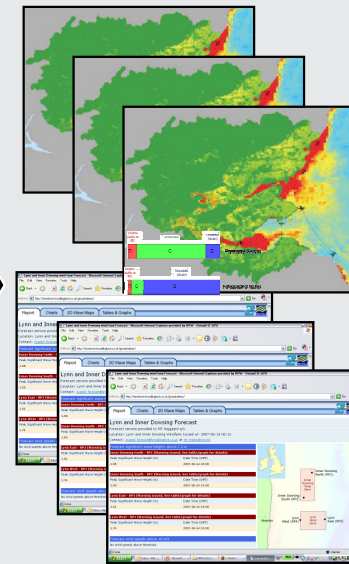
EO Data Processors



Modelling and Analysis



Information and Risk



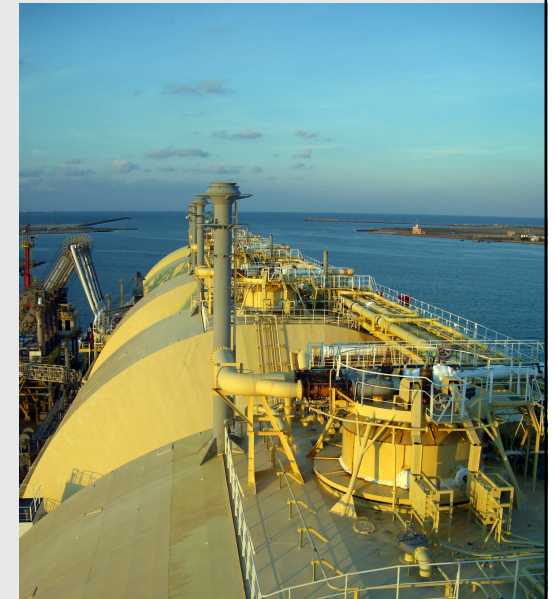
What does the value chain want from GlobCurrent?

> Energy

- > Oil and gas: design of offshore and coastal structures (breakwater, dredged channel, navigation), oil spill analysis...
- > Offshore wind: structural design
- > Nuclear: dispersion of thermal discharges
- > Tidal energy: resources assessment, impact studies

> Maritime

- > Design of port facilities
- > Navigation studies

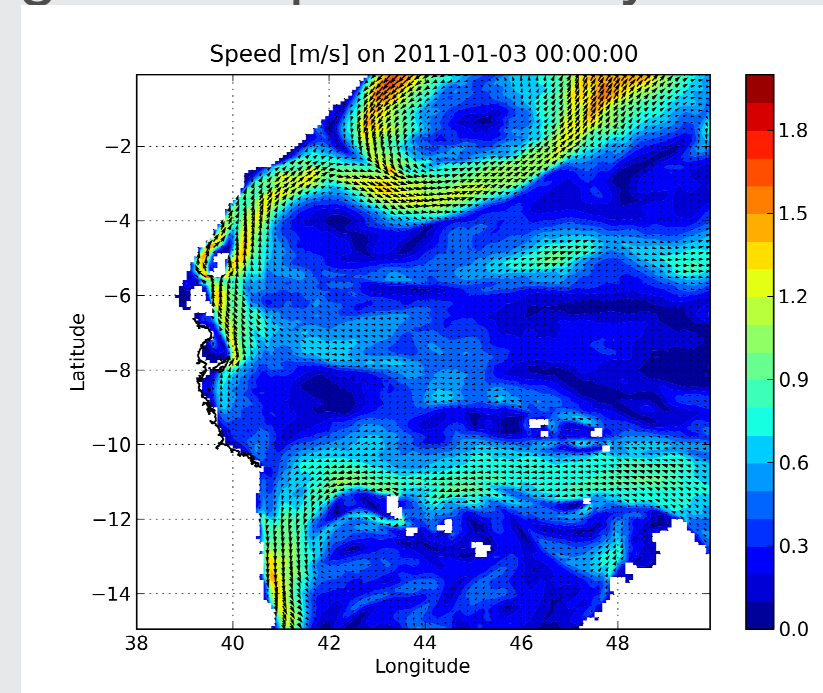


> Available:

- > Global to Regional model data, e.g. those provided by MyOcean, or HYCOM
- > Limited in-situ measurements
- > Scientific literature

> Missing:

- > High resolution spatial data
- > Long time series (e.g. >10 years)
- > Depth profile (although this is not expected to be addressed by satellite data)



> Typical issues:

- > Rapidly changing current directions (eddies)
- > Correlation between winds/waves/currents to assess combined loading
- > Lack of long-term data to derive extreme values
- > Depth varying currents

- > Fast and reliable access to subset of the data (e.g. OpenDAP) – easy AND flexible
- > Easy to use, i.e. requiring little expertise or internal developments (choice of data format and packaging)
- > Information on accuracy of the data, depending on location (not only global statistics)



www.hrwallingford.com

HR Wallingford
Howbery Park, Wallingford, Oxfordshire OX10 8BA, United Kingdom
tel +44 (0)1491 835381 fax +44 (0)1491 832233 email info@hrwallingford.com