

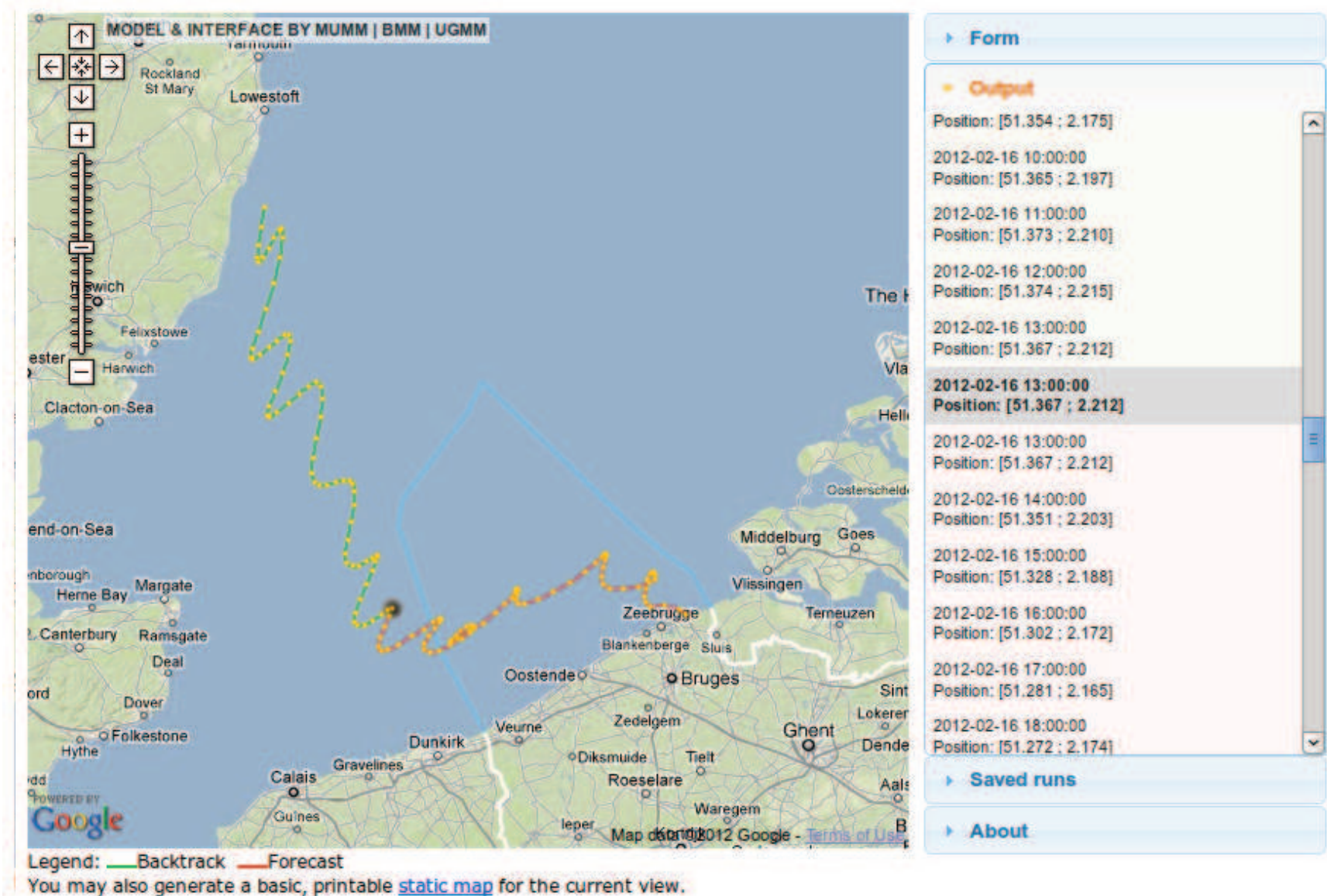


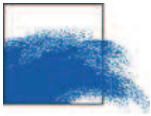
Constraints on Today's oil spill models (based on Belgian's experience)

By Valérie Dulière and Sébastien Legrand

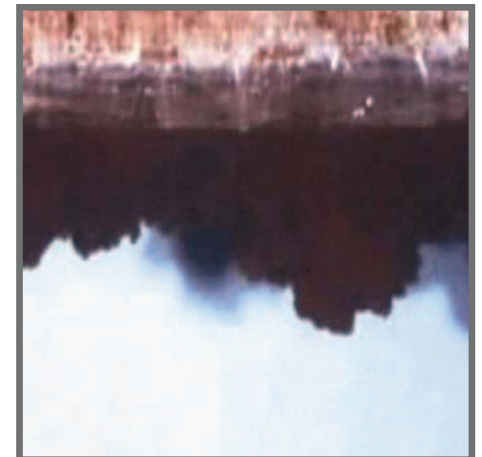
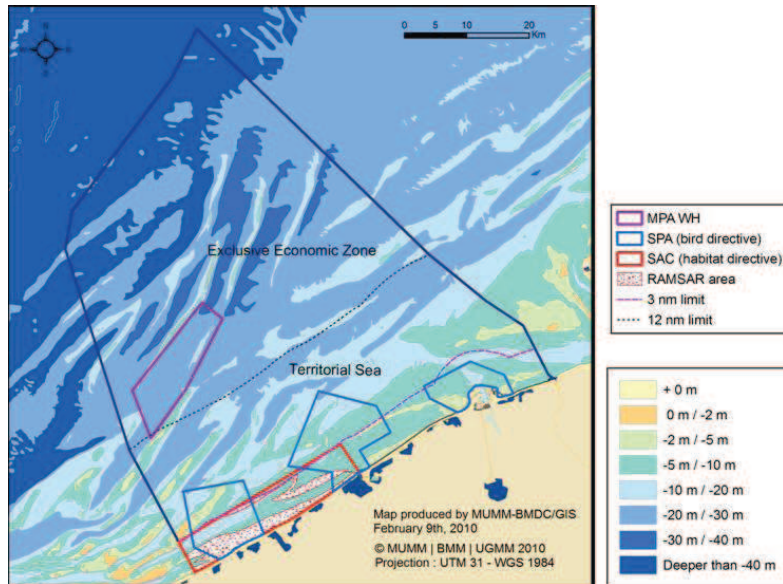


FLOAT





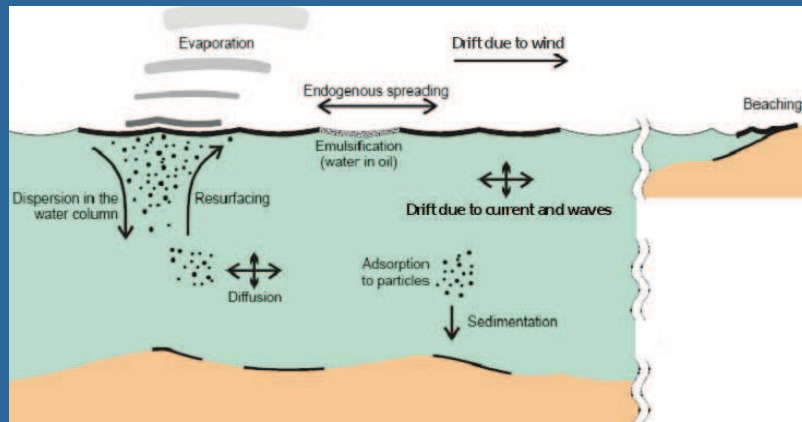
Need for detailed scientifically-based info



Development of a new oil spill model

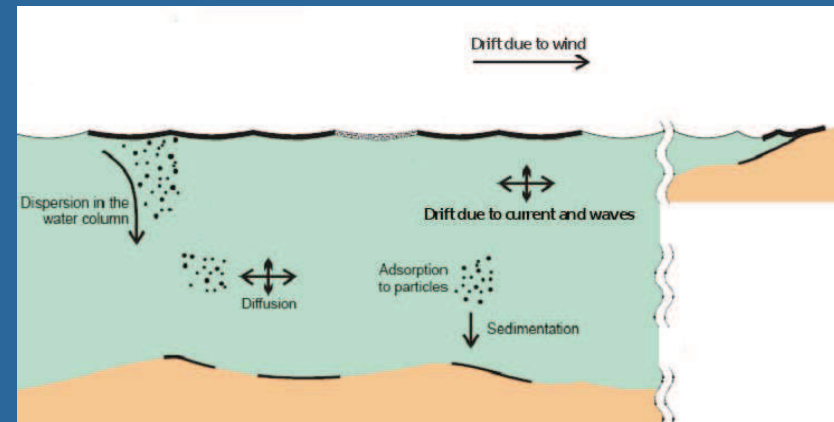
- From 2D to 3D
- Drift and fate
- Hybrid approach

Lagrangian approach



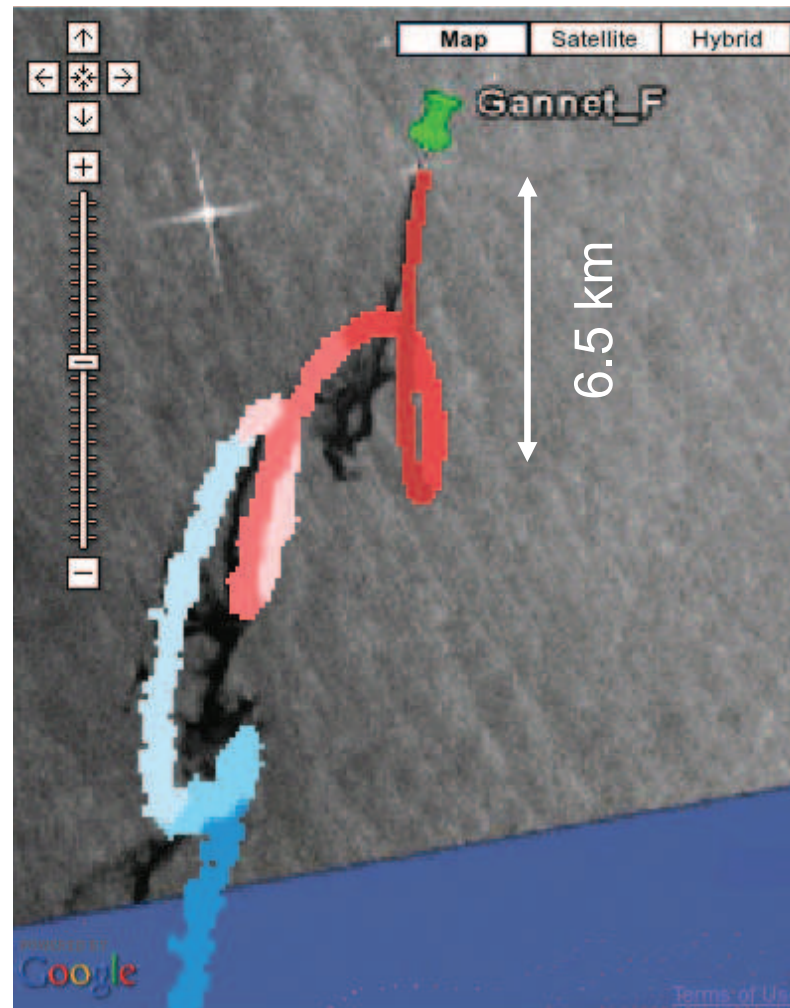
+

Eulerian approach



- Oil database
- Many release scenarios
- Last updated met-ocean forcing

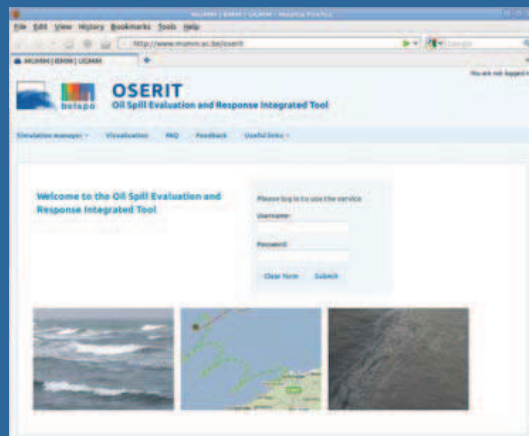
Real case study : “Gannet”



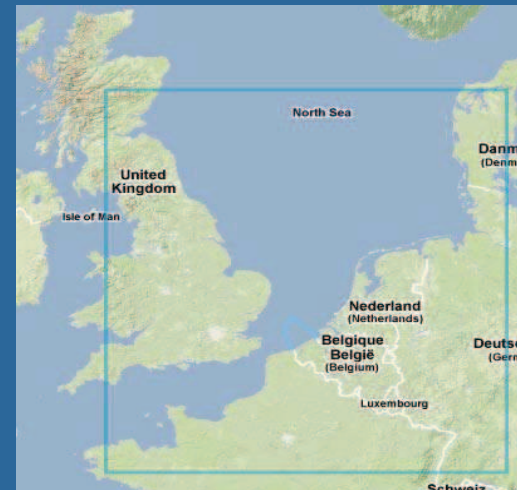
Satellite observation vs. OSERIT model results
19/08/2011 05:31 UTC

Development of a new tool (OSERIT)

Web interface

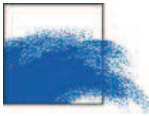


A new 3D drift and fate oil spill model



Post-processing system

- Time residency of oil concentration
- Maximum oil concentration
- ...



Next steps to improve our oil spill drift forecasts

- Training of intervention teams
- Access to higher resolution met-ocean forcing
- Improve spill monitoring means