

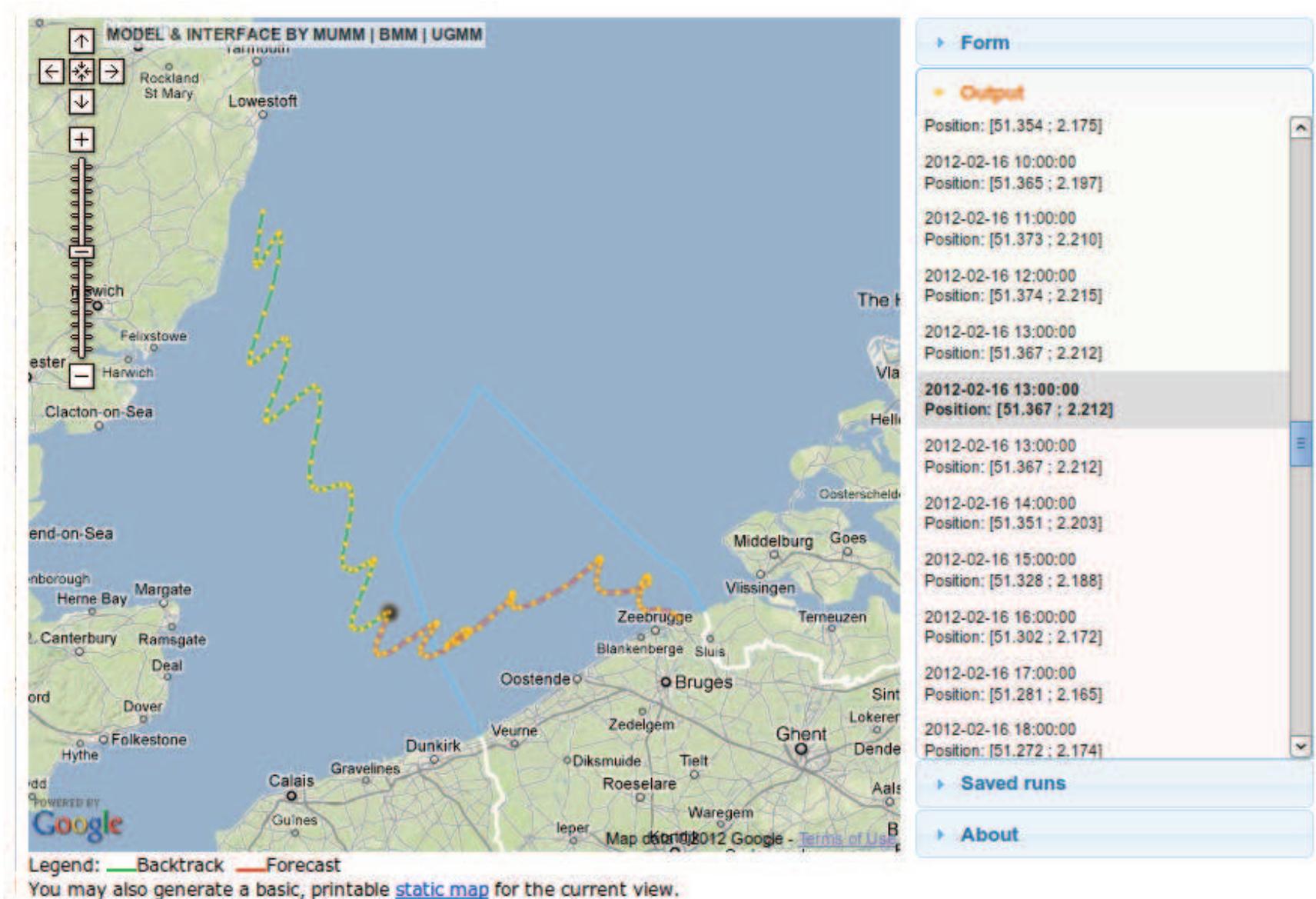


# Constraints on Today's oil spill models (based on Belgian's experience)

By Valérie Dulière and Sébastien Legrand

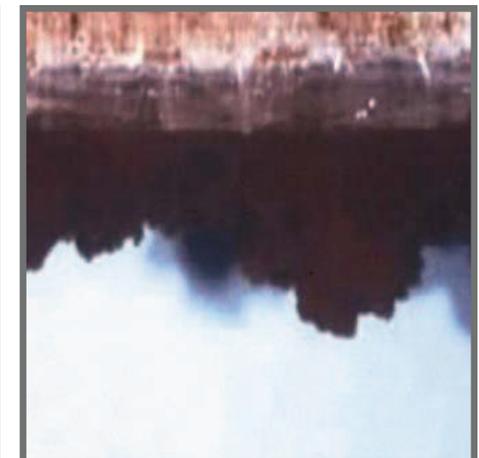
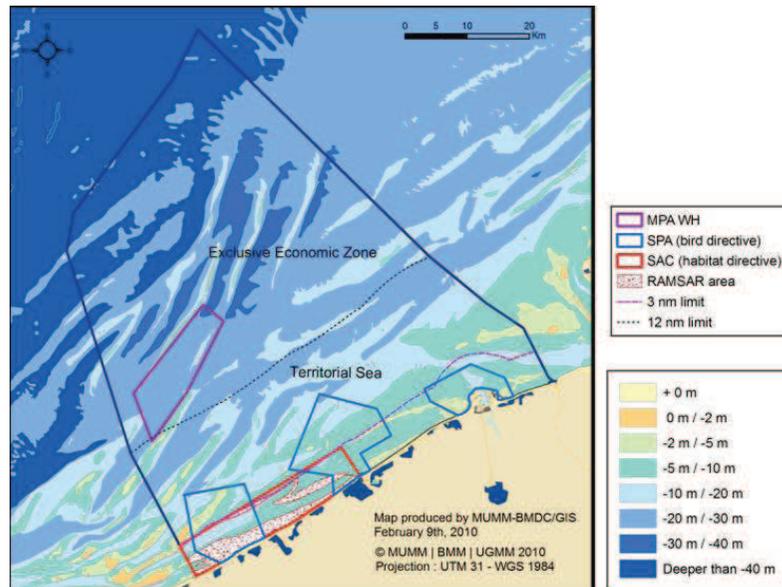


# FLOAT





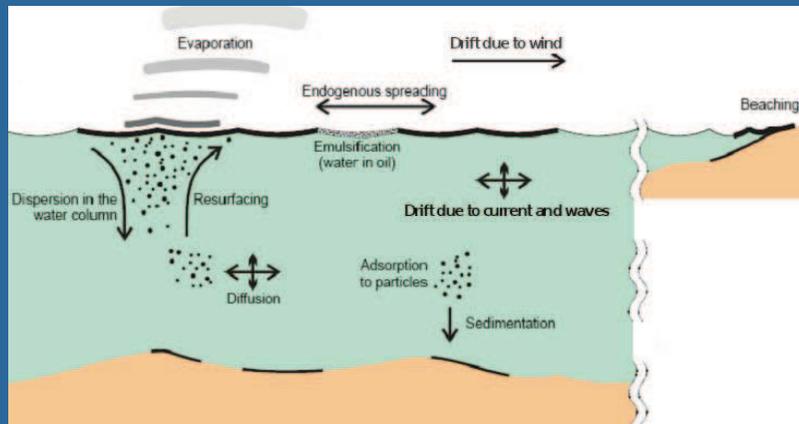
# Need for detailed scientifically-based info



# Development of a new oil spill model

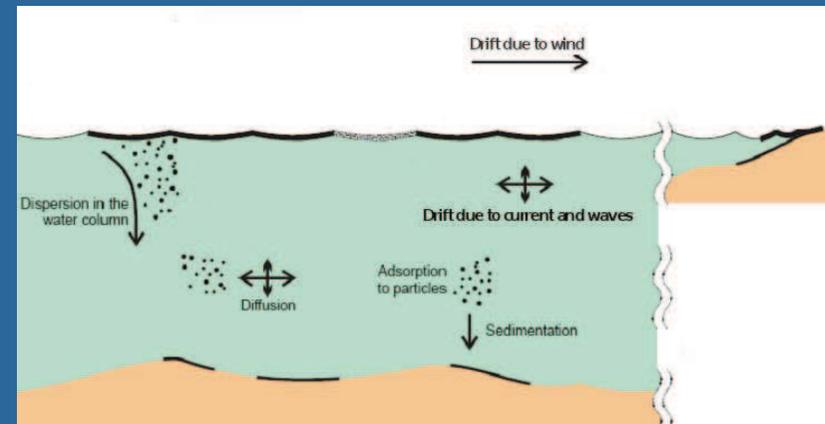
- From 2D to 3D
- Drift and fate
- Hybrid approach

Lagrangian approach



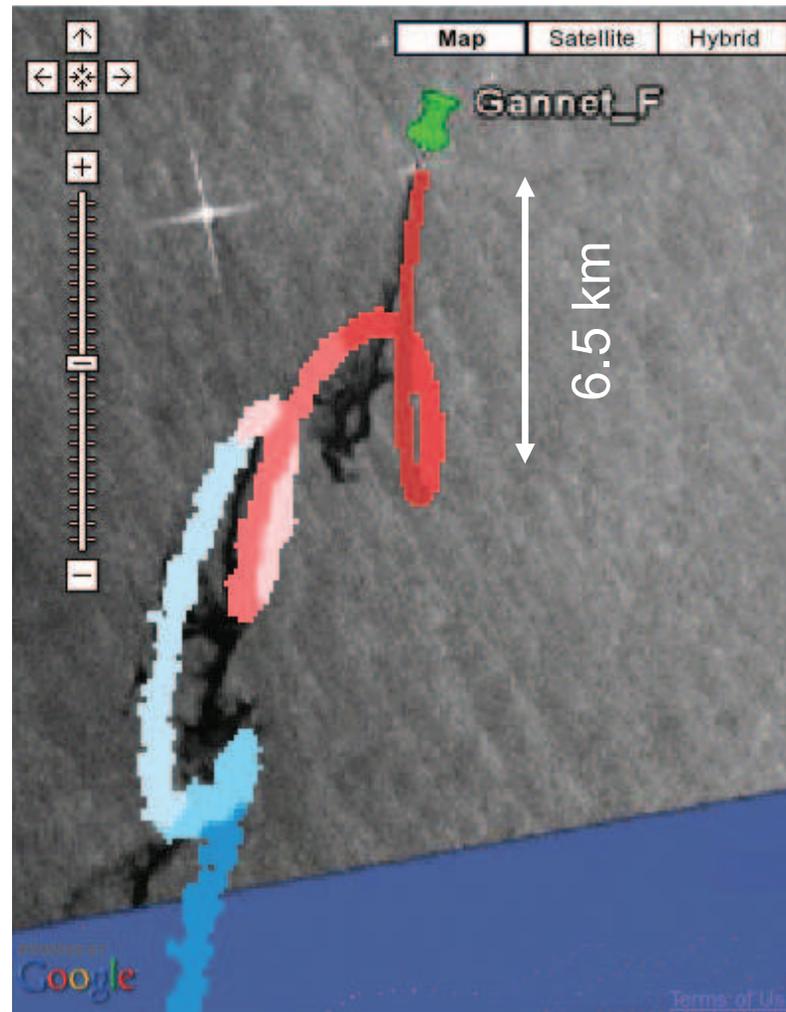
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Eulerian approach



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

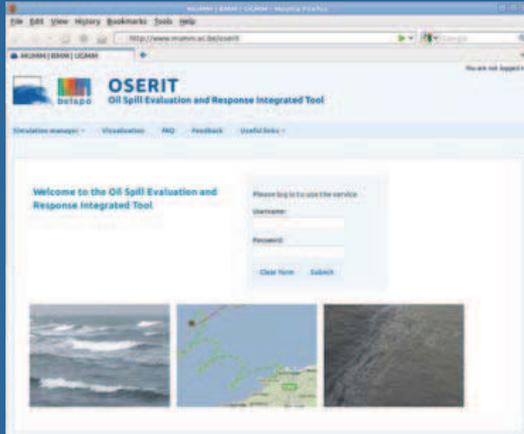
# Real case study : “Gannet”



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