



# OIL SPILL CONSULTANCY AND MODELLING SERVICES

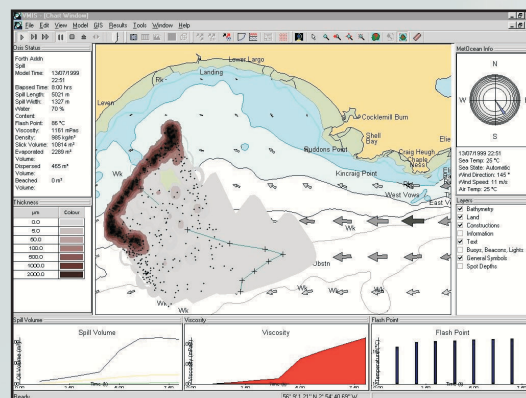
## BMT Cordah Limited

BMT Cordah offers a total oil spill modelling and consultancy service for incidents in coastal, estuarine and deep-water locations. Customers include oil and gas companies, governments, port authorities and environmental organisations. The award-winning Oil Spill information System (OSIS) developed by BMT Cordah and AEA Technology is used for spill modelling studies together with bespoke hydrodynamic databases. The models use a variety of GIS platforms that can be designed according to clients' specific requirements. OSIS has been developed following over 30 years of research into oil spill behaviour coupled with a decade of modelling experience and represents the most advanced technology available for predicting oil spill transport and fate. Oil spill consultancy services have been provided for contingency planning, emergency oil spill modelling and shoreline clean-up planning in areas including: Europe, Caspian Sea, Arabian Gulf, and Asia (especially in the countries of Thailand, Malaysia, Philippines, and Korea).

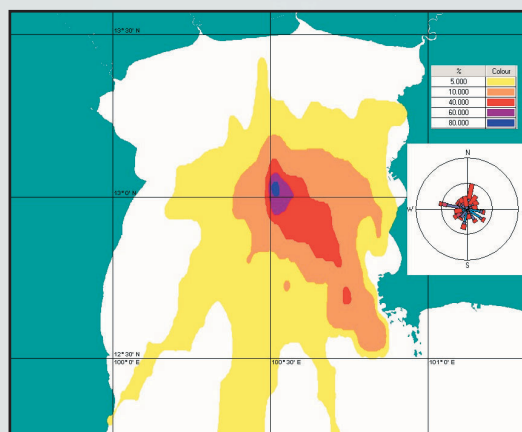
Our oil spill modelling services provide support for a range of applications including preparation of environmental statements, contingency planning schemes and emergency response situations.

### Key Features include:

- Contingency planning
- Emergency oil spill modelling
- Shoreline clean-up planning
- Incident data management
- Deep sea oil and gas blowouts
- Financial liability studies
- Training exercises.



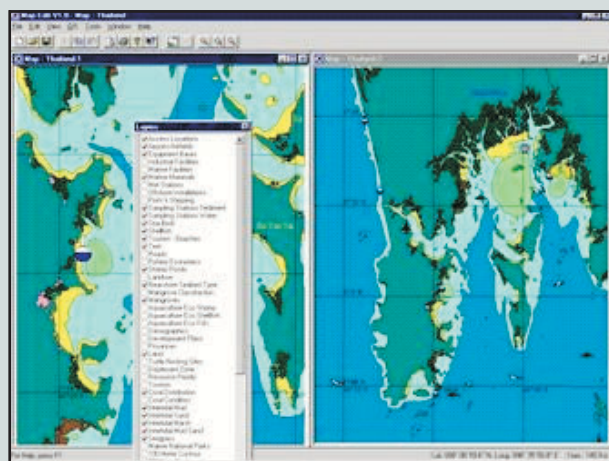
*View of BMT Cordah's OSIS model, showing surface slick, thickness contours, and volume graphs*



*Example of surface oiling probabilities from the stochastic module of BMT Cordah's OSIS model*

At BMT Cordah, our consultancy team has extensive experience of working with oil and gas companies, environmental consultancies, and regulatory bodies on a range of projects. This includes advising on appropriate spill scenarios for contingency planning, identification and configuration of environmentally sensitive areas and training of personnel in the use of OSIS.

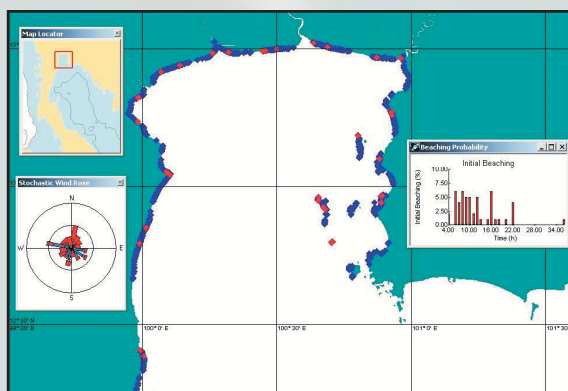
## Oil Spill Consultancy and Modelling Services



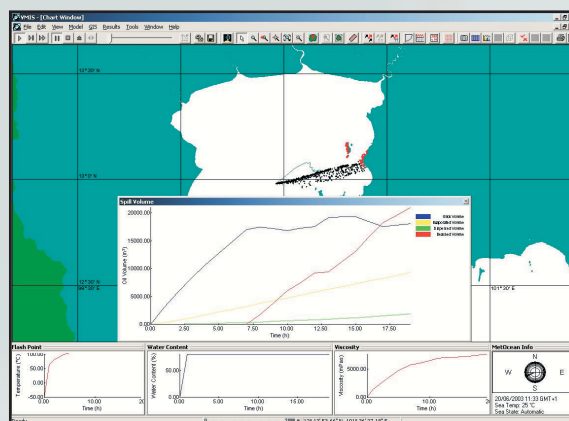
### Example of GIS of environmentally sensitive areas for use in OSIS

Oil spill studies can be designed to obtain a range of output data depending on the user requirement including;

- GIS mapping of impacted areas including customer-defined layers
- Coupled remote sensing / oil spill modelling capability for spill detection
- Shoreline sensitivity studies including impact analysis on habitats and coastline
- Contingency planning measures for shoreline clean-up operations
- Beaching information; volume and length of impacted coastline
- Oil slick characteristics including; water content, viscosity, volume, area and thickness
- Oil slick dynamics; drift characteristics, spreading rate and extents
- Backtrack modelling to locate point-sources of spill event.



### Beaching sites and beaching times from BMT Cordah's OSIS



**Example of oil volume graphs from BMT Cordah's OSIS**



**BMT Cordah Limited**

Grove House, 7 Ocean Way, Meridians Cross,  
Ocean Village, Southampton, SO14 3TJ, United Kingdom  
Telephone: +44 (0)23 8023 2222  
Facsimilie: +44 (0)23 8023 2891  
email: [enquiries@bmtcordah.com](mailto:enquiries@bmtcordah.com)  
[www.bmtcordah.com](http://www.bmtcordah.com)

## Edinburgh Office

Telephone: +44 (0)131 445 6120  
Facsimile: +44 (0)131 445 6110  
email: [enquiries@bmtcordah.com](mailto:enquiries@bmtcordah.com)  
[www.bmtcordah.com](http://www.bmtcordah.com)

Aberdeen Office

Telephone: +44 (0)1224 414200  
Facsimile: +44 (0)1224 414250  
email: [enquiries@bmtcordah.com](mailto:enquiries@bmtcordah.com)  
[www.bmtcordah.com](http://www.bmtcordah.com)

## Poland Office

Telephone: +48 58 345 00 39  
Facsimile: +48 58 552 20 19  
email: [enquiries@bmtcordah.pl](mailto:enquiries@bmtcordah.pl)  
[www.bmtcordah.pl](http://www.bmtcordah.pl)