



OIL SPILL CONSULTANCY AND MODELLING SERVICES

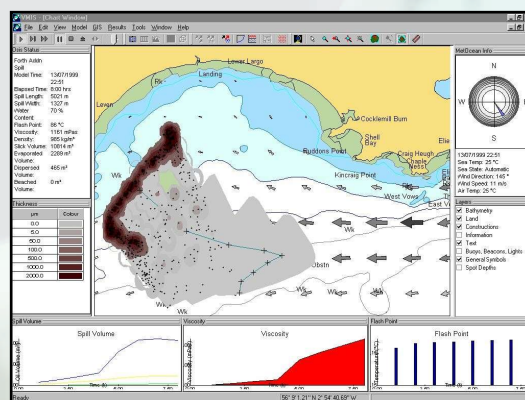
BMT Cordah Limited

BMT Cordah Ltd. offer 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 and AEA Technology is used for spill modelling studies together with bespoke hydrodynamic databases and GIS designed according to customer's 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: UK, Europe, Caspian Sea, Arabian Gulf, and SE Asia (especially Thailand, Malaysia, Philippines, and Korea).

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

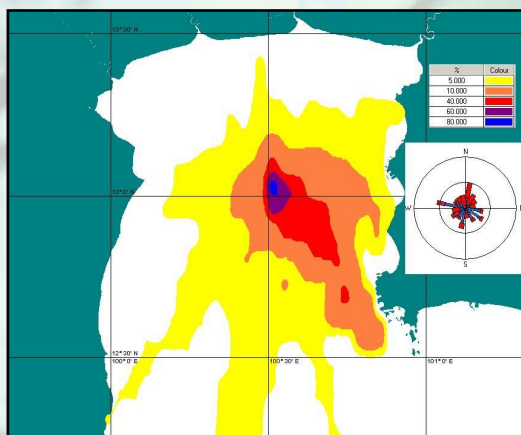
Key Features Include:

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



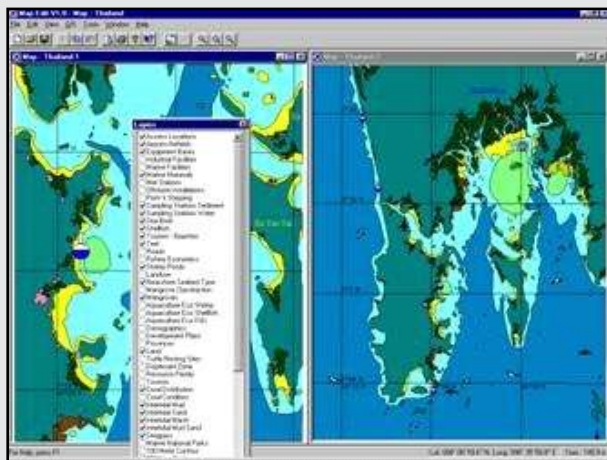
View of BMT's OSIS model, showing surface slick, thickness contours, and volume graphs

At BMT Cordah, our consultancy team have 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 as a GIS for use by OSIS, and training of personnel in the use of OSIS.

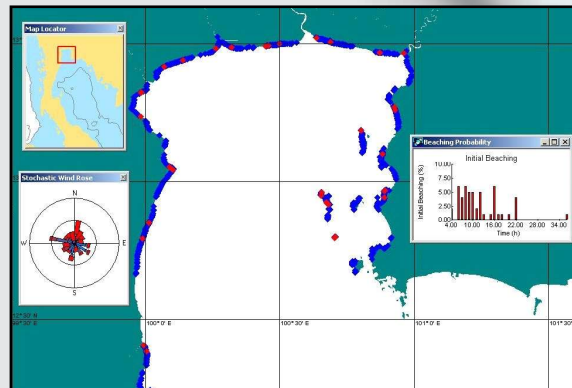


Example of surface oiling probabilities from the stochastic module of BMT's OSIS model

Oil Spill Consultancy and Modelling Services



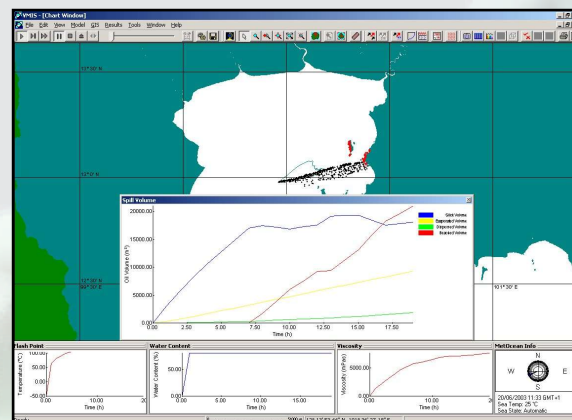
Example of GIS of environmentally sensitive areas for use in OSIS



Beaching sites and beaching times from BMT's 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.



Example of oil volume graphs as output by BMT's OSIS

Edinburgh Office
Doherty Building,
Pentlands Science Park,
Penicuik, Edinburgh EH26 0PZ
United Kingdom
Telephone: 44 (0)131 445 6120
Facsimile: 44 (0)131 445 6110
e-mail: enquiries@bmtcordah.com
www.bmtcordah.com

Southampton Office
Grove House, 7 Ocean Way,
Meridians Cross, Ocean Village,
Southampton
SO14 3TJ, UK
Tel: +44 (0)23 8023 2222
Fax: +44 (0)23 8023 2891
e-mail: enquiries@bmtcordah.com
www.bmtcordah.com

Aberdeen Office
Scotstown Road,
Bridge of Don,
Aberdeen AB23 8HG
United Kingdom
Telephone: 44 (0)1224 414200
Facsimile: 44 (0)1224 414250
e-mail: enquiries@bmtcordah.com
www.bmtcordah.com

Poland Office
80-328 Gdansk
Kosciarska 7
Poland
Telephone: 48 58 345 00 39
Facsimile: 48 58 552 20 19
e-mail: enquiries@bmtcordah.com
www.bmtcordah.pl