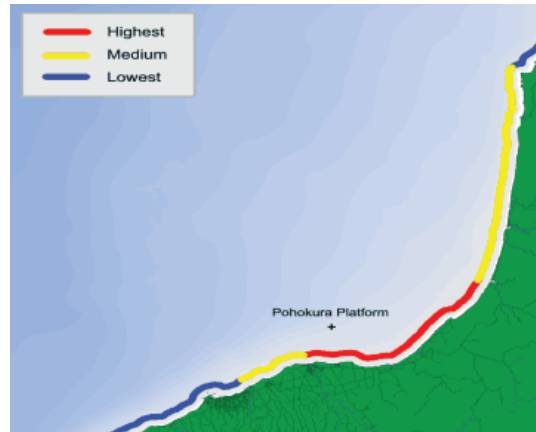
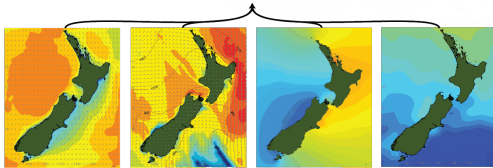
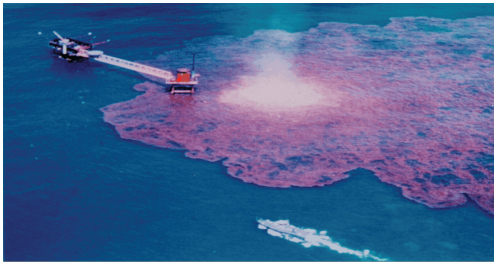


## Oil Spill Assessment & Trajectory Forecasting

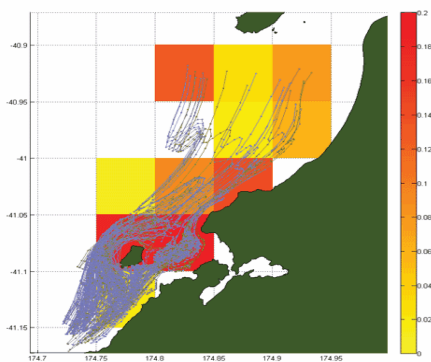
NZ has an energetic and highly variable marine climate, and this complexity needs to be captured when considering the trajectory of an oil spill. Winds, coastal currents, tidal currents and sea surface temperature all have important influences on an oil spill and the resultant coastal impacts. MetOcean Solutions have provided oil spill trajectory assessments for a range of offshore installations in NZ.



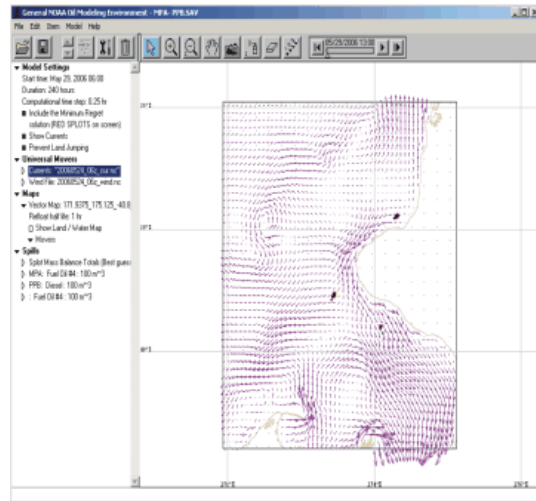
Relative coastal impact probabilities

These studies have included all the dominant metocean influences to assess the likely coastal impacts in the unlikely event of a spill. Stochastic and long-term lagrangian simulation techniques allow a robust analysis of impacts to be undertaken. MSL use two well known oil spill models (GNOME and ADIOS) driven with the waves, winds and currents from the 10-year MSL hindcast metocean database.

MSL provide a 24-hour oil spill response service to the offshore industry, as well as the key metocean forecast data for Search and Rescue operations and emergency response.



Lost diver trajectory



Oil spill trajectory forecasting - 24 hour NZ wide