

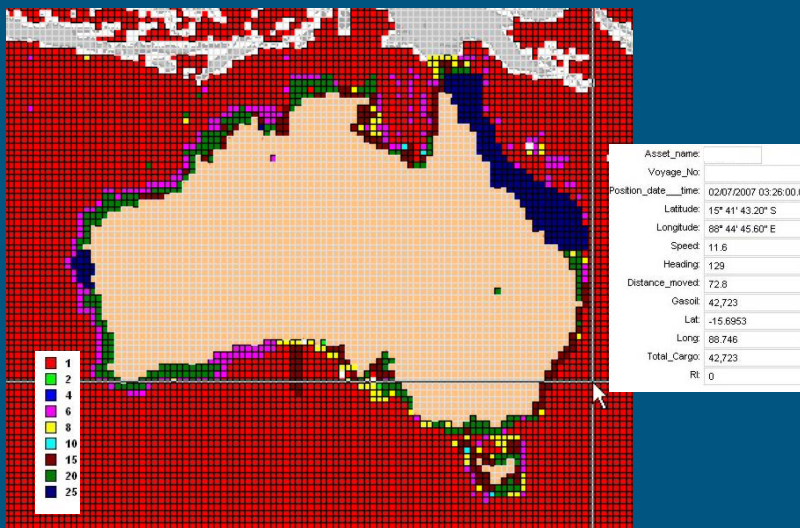
Marine Oil Spill Risk Assessment

In a single year, BP ship approximately 250 million tonnes of oil (crude / product). Of this quantity, 37% was shipped in BP owned ships and the rest in spot / time chartered vessels. As an oil major, a significant oil spill in countries such as Indonesia, Thailand, Philippines, Malaysia, Vietnam (ASEAN) and Australia would cause great adverse publicity as well as the potential for a major environmental impact.

BMT WBM are working with BP and Lloyds Register to create and map in GIS the risk assessment of oil spills from ships travelling around the Asia Pacific Region.

The project involves mapping environmental data and ship routes. Calculations are made, using of buffer areas from these ships based on their load and type of load. These results are then analysed with the environmental data to create a risk index of the study area.

The risk analysis will ultimately assist with pre-positioning spill response equipment and other resources, which is a requirement of the Protocol on Preparedness, Response and Co-operation to Pollution Incidents by Hazardous and Noxious Substances.



Client

Lloyds Register/BP

Date

2008

Services & Expertise Provided

Create base map and location / type of environmentally sensitive areas, assign a rating to environmental GIS data;

Map Vessel routes, including load and type of load;

Calculate and map effect distance for all ships;

Calculate the Risk index for all cells within the study area;

Development of data interrogation protocols;

High quality WebGIS mapping and analysis; and

Provide GIS services, training and technical support.