

Port of Darwin Metocean Studies

BMT WBM have been commissioned to collect Metocean data to assist in the design of LNG facilities in Darwin Harbour. The project will include the planning and development of new port related infrastructure including reclamation projects, navigation channel establishment and deepening and the development of new wharf areas. In each instance hydrodynamic models have been developed and require rigorous data collection exercises, each aimed at verifying and/or refining model behaviour in a specific location.

In all instances the oceanographic measurement dataset was compiled using instrumentation owned and operated by BMT WBM. Project specific measurements have included the following:

- Tide and wave measurements at model boundary and internal locations using self-contained recorders.
- Current Measurements (speed and direction) using bed-mounted Acoustic Doppler Current Profilers (ADCP's) from numerous locations within the Harbour.

Data analyses by BMT WBM provided processed data and information required specifically for input to model verification and calibration.



Client

INPEX Ichthys

Date

2008 – 2009

Services & Expertise Provided

Measurement of tidal levels and flows for calibration and verification of a hydrodynamic model of Darwin Harbour;

Deployment operation and maintenance of measurement instrumentation including 3 ADCPs and 2 Wave and Tide Gauges;

Data analysis and presentation of data for incorporation as boundary conditions for hydrodynamic models; and

Data verification.

