

About us



Blue Ocean Monitoring is a leader in providing operational and environmental ocean data solutions.

- Established to offer real-time ocean data solutions to Oil and Gas & Environmental sectors
- Largest commercial operator of Slocum Gliders globally
- Based in Perth, Western Australia with subsidiaries in the UK, USA and Singapore
- > 10 years AUV & operational oceanography experience
- Data as a service supply and operation of data collection platforms & provision of near real-time data streams
- Strategic Partnership with Teledyne Webb Research exclusive 3rd party service provider for Australia and SE Asia
- 24/7 international piloting operational centers

Project Overview





Map: Courtesy of Quadrant Energy



Why was a glider used?



Our glider provided in-situ, full water column measurements cost effectively.

- Profile downstream of changing currents
- Cost effective
- Full water column measurements
- Persistent monitoring
- Weather resilience

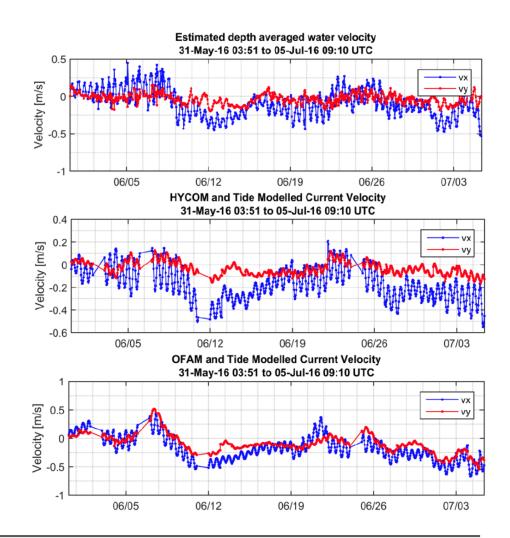


Purpose



To validate the numerical model developed to describe the sediment transport.

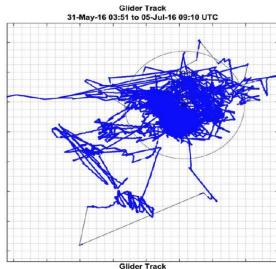
- Model scale vs. measurement scale
- Beyond the surface layer

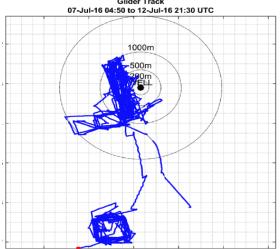


How it was achieved?

Effective planning, communication and co-ordination was required for successful execution.

- Phased deployment
- Exclusion zones
- Daily co-ordination
- Forecasts and in-situ measurements informed the survey plan
- 24/7 piloting
- Use of the thruster
- Laboratory calibrations



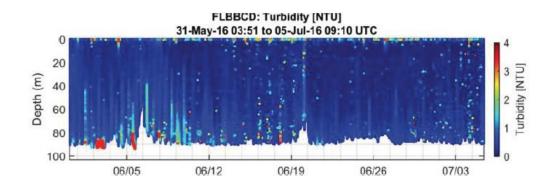


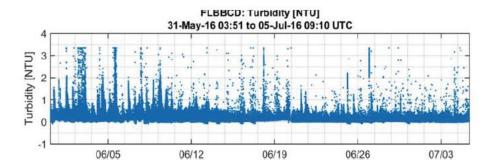
Outcomes



Natural ocean processes accounted for a majority of the variability in the oceanographic data measured.

- Lower discharge volumes
- Generally good agreement with numerical model
- Natural turbidity events were significant





Conclusions



- Collection of baseline data, at least over a full tidal cycle, is important for accurate assessment of impact
- The efficacy of numerical models can be enhanced by ground truthing
- Autonomous gliders are a powerful, cost effective and safe real-time data collection tool

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