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Studies

- Bachelor of Coastal Engineering - Griffith University, Gold Coast.
- Working for Asia-Pacific ASA for almost 2 years. APASA are a numerical modelling company who specialise in coastal and oceanic tidal models, pollutant fates modelling such as Oil and Chemical spills, as well as sediment transport and Search and Rescue (SAR) modelling
- Started PhD in September 2009 in conjunction with Griffith University and Industry Partner Asia-Pacific ASA
- PhD focussing on “Quantifying Potential Errors in Ocean Forecast Models Using Observed and Simulated Buoy Trajectories”
- Will be using a lagrangian approach by taking ocean current forecast models such as BLUElink and NCOM and wind forecast models GFS and NOGAPS to simulate drifter trajectories using ASA’s Search and Rescue Mapping Analysis Program (SARMAP)
- APASA have developed a tool for incorporating tidal currents with the NCOM and BLUElink predicted currents. This is particularly useful for Coastal waters where tidal currents are a dominant force.

Aussie Culture – Vegemite!





PhD Outline

- Currently in literature review stage
- Will be using ASA software SARMAP and OILMAP to predict drogue trajectories.
- Using NCOM and BLUElink ocean current forecasts and GFS and NOGAPS wind forecasts to force the model.
- APASA have developed a tool for incorporating tidal currents with the NCOM and BLUElink predicted currents. This is particularly useful for Coastal waters where tidal currents are a dominant force.
- Investigating the development of some shallow water drifters to be used in coastal waters, as the global SVP drifters drogued at 15 m are not suitable for near shore deployment, especially within the Great Barrier Reef lagoon.

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