



Marine Science in WA 2010 Show-&-Tell

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Newsflash title: Downscaled hydrodynamic simulation of southwest Australian coastal waters



Downscaled hydrodynamic simulation of southwest Australian coastal waters

- Shelf-scale hydrodynamic model
 - ROMS (2km) nested in a global model BRAN (10km)
 - Reproduce general features of the Leeuwin Current System
 - Study cross-shore and longshore transport of water mass, heat & salt
 - Coupled with biogeochemical models
- Lagoon-scale hydrodynamic model
 - Big waves can dominate the circulations in the Marmion lagoon
 - Use XBeach (30m) to model the wave-driven currents over the reefs

