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Applied Ocean Physics and Engineering Seminar Announcement

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Ian Cresswell

Science Leader for CSIRO Wealth from Oceans Flagship

Towards Integrated Management in Australia's Oceans

Abstract: Australia is a maritime nation and is well regarded in marine research and management. Throughout history Australia has relied on its oceans and coasts. Over the past 20 years the economic importance of our marine environment has grown rapidly and a number of emerging major coastal and maritime industry opportunities mean that the pressures on our coastal and marine estate are also growing. To deal with the complex environmental, economic and social problems that lay in front of us Australia is working to combine strong policy, governance and research to guide sustainable marine and coastal development and conservation. Australia's largest marine science program is the Wealth from Oceans Flagship which along with ongoing investment in national marine science infrastructure, are key components to laying the foundation for a new paradigm of marine management into the future. This talk will focus on our current policy and research settings, and explore our thinking in terms of future directions, including touching on our existing national and international R&D partnerships. The need for fast decision making places significant pressure on harvesting existing data and interpreting new information in order to ascertain the best way forward through an increasingly complex landscape. To date it has not been possible to consider some of the cumulative effects that each new decision places on both our natural capital and our built environment. While longstanding strategies and programs have been put in place for sustainable use and conservation across all Australian waters it has not always been possible to assess their effectiveness both individually and in toto. Tools that increase our understanding of the impact of our management measures, and which then increase our ability to adaptively manage as new information becomes available, are in scope for future development. Despite limitations in our knowledge base we are on the cusp of a revolution in new technologies for monitoring and modelling. This talk will focus on a vision for pulling together Australia's existing marine and coastal research and modelling efforts into a new state of the art suite of assessment and prediction services.

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Wednesday, October 5
Redfield Auditorium* – 12:15 PM

** Please note change of usual location*

