



Dr Matthew Turner

PhD, MSc. (Dist), B.Eng. (Hons), BSc



Matthew is a Senior Engineer with ten years' experience in hydrology, coastal engineering and coastal science. Particular expertise includes the development and application of numerical models of coastal processes including tides and currents, the forecasting of environmental conditions, assimilation of forecasts into coastal numerical models and Monte Carlo risk analysis.

Key Experience

Coastal engineering and scientific research experience includes the assimilation of satellite data into hydrodynamic models, the analysis and prediction of wave transformation under strong currents, the development of numerical and data driven models of tides and currents. Maritime engineering experience includes conducting port under keel clearance risk assessment studies.

Education and Professional Status

PhD in Engineering. University of Melbourne (2006)

MSc in Hydroinformatics (Dist). IHE, Delft, The Netherlands (2002)

Bachelor of Engineering (Environmental) (Hons). University of Melbourne, (1999)

Bachelor of Science. University of Melbourne, (1999)

Member of the Engineers Australia (since 2008)

Select Publications

Turner, M.R.J., J.P. Walker and P.R. Oke, Ensemble member generation for sequential data assimilation Remote Sensing of Environment, Volume 112, Issue 4, 15 April 2008, Pages 1421-1433 .

Turner M.R.J, O'Brien, P.W., UKC Management: An Australasian Experience, V Seminario Internacional de Ingeniería y Operaciones Portuarias, October 2008, Concepción, Chile.

Lesser, G.R., M.R. Turner, and D. Provis, Waves in the Entrance to Port Phillip Bay, In proceedings of Coasts and Ports Conference 2007, 18-20 July 2007, Melbourne.

Turner, M.R.J. 2006, Assimilation of satellite data into coastal biogeochemical models, PhD thesis, University of Melbourne.

Turner, M.R.J, J.P. Walker, P. Oke, and R. Grayson, Assimilation of Sea-surface Temperature into a Hydrodynamic Model of Port Phillip Bay, Australia, In Proceedings of Coasts and Ports: Coastal Living – Living Coast Conference 2005, 20-23 September 2005 Adelaide.

Professional Appointments

2010 – Office Manager South America, OMC International, Melbourne, Australia.

2006 to present - Senior Research Engineer, OMC International, Melbourne, Australia.

1999 to 2000 - Graduate Engineer, Sinclair Knight Merz (SKM), Melbourne Australia.