



Rodger Tomlinson – Convenor ACCARNSI Node 1

BE PhD

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Professor Rodger Tomlinson is Gold Coast City Council Professor of Coastal Management and Foundation Director of the Griffith Centre for Coastal Management at the Gold Coast Campus of Griffith University. His current research interests are in the area of climate variability and climate change and the implications for open coastline and coastal waterway dynamics and management. The emphasis of this research is on providing advice to local municipalities on the sustainable management and planning of coastal settlements.

Qualifications

BE Hons 1, UNSW

PhD, UNSW

Affiliations

FIEAust, CPEng, NPER

Member - International Association of Hydraulics Research

Member - Australian Marine Sciences Association

Member - Coastal Education and Research Foundation

Member - Australian Association of Engineering Education

Member – Australian Water Association

Member - Society of Environmental Engineering

Professional History

2000- : Director – Griffith Centre for Coastal Management

1994-1999: Head – School of Environmental Engineering, Griffith University

1992-1994: Deputy Head, School of Environmental Engineering, Griffith University

1984-1991: Engineer – UNSW Water Research Laboratory

1982-1983: Postgraduate Scholar, UNSW

1978-1981: Tutor, UNSW School of Civil Engineering

1977 : Engineer, MWS&DB

1972-1976: Trainee, MWS&DB

Specialist Fields

- Coastal Engineering
- Urban catchment and waterway management
- Nearshore coastal oceanography
- Estuarine hydrodynamics, water quality and sediment transport

- Field data collection and analysis
- Climate change vulnerability and adaptation for coastal environments
- Coastal management
- Historical re-analysis of open coast processes

Relevant Experience

Effluent Dispersion and Disposal Strategies

1978 – Ongoing: Ebb-staged discharge, ocean outfalls, estuarine disposal, Gold Coast, Sydney, various NSW

2006 – Ongoing: Desalination intake and outfall, Gold Coast

Urban Catchment and Waterway Management

1996 – Ongoing: environmental inventory, management studies, water quality improvement, Gold Coast Broadwater and tributaries, Gold Coast

2002 – Ongoing: canals, coastal lake dynamics and management, Gold Coast, Sunshine Coast, Lakes Entrance

Climate Change Adaptation

2000- Ongoing: Historical re-analysis of beach processes, coastal impacts, management plans, extreme event modelling, vulnerability assessment, East Coast Australia

Coastal Processes

1977- Ongoing: tidal inlets, storm erosion modelling, sediment budget analysis East Coast Australia, Lakes Entrance

1984- Ongoing: beach management, Gold Coast

2003- Ongoing: beach condition assessment using video, Gold Coast

Selected Publications

- Helman, P. and Tomlinson, R.B. (2008), "Coastal Storms and Climate Change Over the Last Two Centuries, East Coast Australia", Solutions to Coastal Disasters 2008, Eds. Wallendorf, L., Ewing, L., Jones, C. and Jaffe, B., ASCE, pp. 139-146.
- Hunt, S., Stuart, G., Reed, R., Mirfenderesk, H. and Tomlinson, R.B. (2008), "Managing Coastal hazards on Australia's Gold Coast", Solutions to Coastal Disasters 2008, Eds. Wallendorf, L., Ewing, L., Jones, C. and Jaffe, B., ASCE, pp. 699-712.
- Castelle, B. Le Corre, Y., and Tomlinson, R.B. (2008), "Can the Gold Coast beaches manage extreme events", *Geo-Marine Letters online*, 28, pp. 23-30.
- Stuart, G., Hollingsworth, A., Thomsen, F., Szykarski, S., Capati, B., Khan, S., Teo, L., Tomlinson, R.B., Kirkpatrick, S. (2009), "Gold Coast Seaway SmartRelease Decision Support System – Optimising recycled water release in a sub tropical estuarine environment", *Water Science & Technology*, IWA, 60.8, pp.2077-2084.
- Castelle, B. Turner, I.L., Bertin, X and Tomlinson R.B. (2009), "Beach nourishment at Coolangatta Bay over the period 1987-2005: Impacts and lessons", *Coastal Engineering*, Vol.56, pp.940-950.