

Dr John L Luick
Director, Tridel Technologies Australia LLC, UAE, India
Austides Consulting, Adelaide
Senior Research Fellow (Adjunct), Flinders University of South Australia

Passports: USA and Australia
john.luick@austides.com
 34 Chitunga Road, Eden Hills, South Australia, 5050

Education and Work History

1978 - 1981	BSc Physics, University of California, Davis <ul style="list-style-type: none"> • Sigma Pi Sigma (American Physics Honor Society) • Dean's List for academic achievement
1981 - 1984	Engineer, Schlumberger Offshore Services, Santa Barbara <ul style="list-style-type: none"> • Field Engineer, oil and gas well logging and analysis of data.
1984 - 1988	PhD student in physical oceanography, University of Alaska Thesis title: "Dynamics of the Alaska Coastal Current". <ul style="list-style-type: none"> • First author, "<i>Coastal atmospheric forcing in the northern Gulf of Alaska</i>", which was later used to track the 1989 Exxon Valdez oil spill. • Lecturer for the graduate-level physical oceanography course (three years in succession). • Sigma Xi (Physics Honors Society)
1988 - 1992	Postdoctoral Scientist, University of Sydney <ul style="list-style-type: none"> • First author, "<i>On the formation and spreading of the Bass Strait Cascade</i>", the first to report subsurface eddies northeast of Bass Strait, based on a towed thermistor array and ship-mounted subsurface velocity profiler. • Lecturer, fourth-year course "Ocean Wave Theory".
1992 - 2004	Research Fellow, Flinders University, Adelaide Responsible for: <ul style="list-style-type: none"> • \$6M "South Pacific Sea Level and Climate Monitoring Project". • Hydrodynamic numerical modelling of estuarine exchange at Tonga. • Research into impacts of climate change and sea level rise on Pacific Islands. • First order geodetic surveys to establish geoid, mean sea level, and chart datum at ten remote Pacific Island sites.
2004 - 2007	Senior Research Fellow, James Cook University, Townsville Responsible for: <ul style="list-style-type: none"> • Pollutant tracking from the coastline to the offshore Great Barrier Reef Lagoon using numerical tracers and in situ data. • Lecturer for the third-year course "Coastal and Environmental Engineering".

2005-2006	Technical Editor (casual basis), Online English Editing and proofreading scientific documents, primarily written by those for whom English is a second language.
2007 - 2017	Research Scientist, South Australian Research and Development Institute (SARDI) Responsible for: <ul style="list-style-type: none"> • Planning and implementation of the South Australian component of IMOS (Integrated Marine Observing System), a national oceanographic field program. • Establishment of the Rutgers Ocean Modelling System (ROMS) at SARDI for real-time forecasting and analysis. • “Assessment of Oil Drilling Risk in the Great Australian Bight” (in response to potential drilling by BP). This four-year program primarily involved modelling using ROMS. • A comprehensive review of the circulation in the southern Great Barrier Reef based on all available remote sensing and in situ measurements.
Post-retirement Roles	
2017 - present	Consultant, Austides Consulting: in 2010, I started “Austides Consulting” as a platform for pursuing private consulting. With Austides I have completed numerous paid contracts, and an equal or larger number of voluntary reports and written opinions on behalf of marine environmental groups. Selected Austides contracts: <ul style="list-style-type: none"> • Nature Strategy Baseline and Action Plan - Flinders Ports Holdings Expert Advisory Panel (July 2025) • Review of Scientific Reports in Support of Eyre Peninsula Desalination Plant - SA Water Expert Advisory Panel (November 2024 - July 2025) • The oceanography of a coastal area north of Santa Barbara, California, in support of a proposed aquaculture project. For Aquatic Assessments Ltd. Completed April 2025. • “Analysis of HSP-18 Oceanographic Data”, covering the analysis and interpretation of data from the Gulf waters of the Kingdom of Saudi Arabia. For Guardian Geomatics (Reach Subsea). Completed November 2024. • “Tracer trajectory modelling for potential sediments created by proposed mining of deep-sea polymetallic nodules”. For Deep Sea Mining Project, Queensland. Report completed October 2024. • “Physical oceanographic survey of Hessen and Sachsen Bays of Exploration License 1305 - Morobe (PNG) Chromite Project” (for OM Materials, Singapore). • “Summary Physical Data Report - Lake Tanganyika - Physical and Biological Baseline Studies” (for Beach Petroleum, Adelaide). • Vertical tracking of sediments from proposed tailings discharge system at Basamuk Bay, Papua New Guinea (for MiningWatch Canada) (in support of a successful lawsuit brought on behalf of local fishermen by Twivey Law Associates, Port Moresby).

- Assessment of float trajectories from the Montara oil spill leading to Rote/Kupang, Indonesia (successful lawsuit brought on behalf of Indonesia seaweed farmers by Maurice Blackburn Pty Ltd, Sydney).
- Sediment plume tracking from proposed seafloor mining in the deep equatorial Pacific. For Deep Sea Mining Campaign, Canada and Australia. Completed 2021.
- Created ATtide (tide analysis and prediction package). For Dubai Municipality.
- Hydrodynamic modelling, field data analysis, and numerical tracking of fish waste for environmental impact assessment of proposed aquaculture development at Dalma Island. For Abu Dhabi Municipality.

Visiting Scientist: SARDI (2018-2019). I retained a position as Visiting Scientist at SARDI after retirement, but it was mostly an honorary role.

Oceanographic Analyst, Tridel Technologies UAE: I have supported a variety of projects for UAE-based company Tridel Meteorology Projects Contracting LLC. These involved coastal marine projects and tidal software products, as well as supervising scientific and engineering sub-contractors.

Director, Tridel Technologies Australia (2020-present): I co-founded Tridel Technologies Australia LLC. This involves administrative and project management.

Senior Research Fellow (adjunct), Flinders University (2019-present). I was appointed as an adjunct scientist to the marine biology group at Flinders University, Adelaide, primarily to assist with tracking microplastic pollution in the Australian coastal environment. Unfortunately, other commitments have limited my involvement. Participated in a Darwin-Fremantle research cruise.

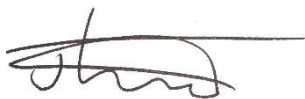
<p>Other skills and experience</p>	<p>I have worked for at least three weeks in each the following countries: USA, Australia, UAE, Kingdom of Saudi Arabia, India, The Philippines, Papua New Guinea, Malaysia, Indonesia, and ten Pacific Island nations</p> <p>Numerical modelling and tracking of oil spills, sediment deposition and erosion, and microplastics, in the presence of complex three-dimensional flow fields and interactions between colloidal particles (flocculation).</p> <p>When spatial scales permit, I use available global models, such as BRAN, ECMWF, TPXO, and OceanMAPS, and CMEMS/Mercator. I have developed systems for rapidly downloading the model currents and reading them into a particle tracking package called OpenDrift.</p> <p>In 2010-2011, I wrote a commercial tidal analysis and prediction package called ATtide.</p> <p>Other Training (past ten years only): Short courses taken: “Advanced Matlab”, “Tidal Theory”, “The Mathematics of Ocean Waves”, “Climate Change Mitigation in Developing Countries”, “Coastal Resilience Theory and Practice”</p> <p>I participated in international projects on a range of subjects, including “India Groundwater Development Initiative 2002” (UN funded), “Coastal India Tsunami Risk Mitigation 2005 (India Chamber of Commerce funded)”, and “Sustainable Development of Pacific Island Coastal Aquifers 1998 - 2000” (AusAID funded).</p> <p>I co-authored a book on tides with Prof. Zygmunt Kowalik, a leading expert, have published a number of tide-related publications. I</p> <p>I wrote a software program to port the TPXO tidal harmonics database into a ROMS model input file, which is freely available and has been downloaded by hundreds of users.</p> <p>I have experience in coaching, mentoring, and advising, for example, “Introductory Physical Oceanography” (three-week short course, voluntary, University of San Carlos, Cebu, The Philippines, 2007), and over dozens of short courses in marine environment-related topics at over 12 different Pacific Island countries, 1995 - 2003. I have taught numerous short courses in India, Malaysia, and the Middle East on a variety of ocean-related technical topics.</p> <p>I frequently assist with environmental advocacy organisations in a voluntary capacity, mostly with ocean particle tracking (pollutants, sediments oil, hatchlings, etc.).</p>
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	<p>I have years of experience in mathematical methods and computer programming, e.g., time series analysis (time and frequency domain), wavelets, tidal least-squares analysis, statistics, risk, and error analysis, Matlab, Fortran 90, and Python, and PowerBI in Windows and Linux environments.</p> <p>I have been involved in over thirty research cruises since 1985, including planning, oversight, and data analysis. My most recent cruise was in 2020 on RV Investigator.</p> <p>Professional Memberships 1989: American Geophysical Union 1989: Australian Modelling and Simulation Society 1991: Australian Meteorological and Oceanographic Society 1991: Australian Marine Science Association 2018: Environmental Defenders Office Register of Experts</p>
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Certification

I, the undersigned, certify to the best of my knowledge and belief:

- (i) this CV correctly describes my qualifications and my experience.
- (ii) I will not be in a situation of actual, potential, or perceived conflict of interest by undertaking this assignment.
- (iii) I am not, nor have I ever been, suspended, debarred, declared ineligible, or blacklisted by any country, any international organization, and/or any other development or donor agency.
- (iv) I have not been charged or convicted of any criminal offense (including felonies and misdemeanors) or infractions or violations of ordinance that carry the penalty of imprisonment.



Signed: 15 October 2025

Refereed publications

O’Connell, L.G., James, N.P., Harvey, A.S., and Luick, J.L. (2020) Re-evaluation of the inferred relationship between living rhodolith morphologies, their movement, and water energy: implications for interpreting paleo-oceanographic conditions. *Palaios* 35(12):543-556.

Middleton, J.F., Luick, J.L., and James, C. (2018) The seasonal averaged ocean circulation of the Great Australian Bight: a modelling study. *Deep Sea Research. Under review for publication.*

Middleton, J.F., D. Griffin, J. Luick, M. Hertzfeld, C. James, and P. Oke (2017) Physical oceanography of the Great Australian Bight: the science that underpins. Final Report GABRP Project 1.1. Great Australian Bight Research Program Research Report Series Number 20, 109pp.

McLeay, L., Doubell, M., Roberts, S., Dixon, C.D., Luick, J.L., and Middleton, J. (2016) A biophysical model to assess the trade-off between larval recruitment and catch in southern Australia's largest prawn fishery. *Fisheries Oceanography* 25(2):164-182.

McLeay, L., M. Doubell, S. Roberts, C. Dixon, L. Andreacchio, C. James, J. Luick, and J. Middleton (2015) Prawn and crab harvest optimisation: a bio-physical management tool. Final Report to the Fisheries Research and Development Corporation, June, 2015.

Gillanders, B., Goldsworthy, S., Prowse, T., Doubell, M., Middleton, J., Rogers, P., Tanner, J., Clisby, N., James, C., Luick, J., van Ruth, P., Bradshaw, J., and Ward, T. (2015) Development of an Ecosystem Model for Fisheries and Aquaculture. Final Report to the Fisheries Research and Development Corporation, May, 2015.

O'Connell, L.G., James, N.P., Doubell, M., Middleton, J.F., Luick, J.L., Currie, D.R., Bone, Y. (2015) Oceanographic Controls on Shallow-Water Temperate Carbonate Sedimentation: Spencer Gulf, South Australia. *Sedimentology*.

Middleton, J.F., Luick, J.L., James, C. (2014) Carrying Capacity for Finfish Aquaculture, Part II - rapid assessment using hydrodynamic and semi-analytic solutions. *Aquaculture Engineering* 62:66-78.

Mao, Y. and Luick, J.L. (2014) Circulation in the southern Great Barrier Reef studied through an integration of multiple remote sensing and in situ measurements. *Journal of Geophysical Research*. 10.1002/2013JC009397

Doubell M.J., Luick J., James C., Dixon C., Roberts S and Middleton J (2013) Simulations of larval dispersal and settlement in the large inverse estuary of Spencer Gulf, South Australia. *Fisheries Oceanography*.

Hinwood, J., and Luick, J.L. (2013) Closed basin modes of a dual basin harbour. *Pure and Applied Geophysics*. DOI 10.1007/s00024-012-0611-4.

Petrusevics, P., J.A.T. Bye, J. Luick, and C. Teixeira (2011) Summer sea surface temperatures and elevated chlorophyll-a in the entrance to Spencer gulf, South Australia. *Continental Shelf Research*, 31, 849-856.

Luick, J.L. and J.B. Hinwood (2008) Water levels in a dual basin harbour in response to infragravity and edge waves. *Progress in Oceanography*. doi:10.1016/j.pocean.2006.04.002.

Luick, J.L., Mason, L.B., Hardy, T., and Furnas, M. (2007) Circulation in the Great Barrier Reef Lagoon using numerical tracers and in situ data. *Ctl Shelf Res.*, 27, 757-778.

- Kumar, V., and J.L. Luick (2004) Effect of various parameters on the size of freshwater lens in Home Island. *J. of Applied Hydrology*, Vol. 17, No. 1, pp. 69-78
- Unnikrishnan, A.S., and J. Luick (2003) A finite element simulation of tidal circulation in the Gulf of Kutch, India. *Estuarine, Coastal, and Shelf Science*, vol. 56, pages 131-138. doi:10.1016/S0272-7714(02)00135-X.
- Luick, J.L. (2002) Analysis of sea level and wind stress curl in the Tuvalu region of the South Pacific during the 1997/1998 El Niño. *J. of Geophys. Res.* 107(C11), 3201, doi:10.1029/2001JC001080.
- Luick, J. (2001) An Evaluation of Sea Level and Wind Stress Variations during the 1997/1998 El Niño using the NOAA Ocean Analysis System. *Proceedings, Pacific Islands Conference on Climate Change, Climate Variability, and Sea Level Rise, Rarotonga, Cook Islands, 3-7 April 2000*, edited by M. Grzschnik, National Tidal Facility.
- Scherer, W., and Luick, J. (2001) The need for absolute sea level. *Proceedings, Pacific Islands Conference on Climate Change, Climate Variability, and Sea Level Rise, Rarotonga, Cook Islands, 3-7 April 2000*, edited by M. Grzschnik.
- Luick, J., (2001) An analysis of variance in Pacific tide gauge data, Part 1: Comparison of collocated gauges. Part 2: Low frequency variability at Rarotonga and Nuku'alofa. *Sea-Level Changes and Their Effects*, World Scientific Singapore. ISBN 981-02-3618-2.
- Luick, J., and G.R. Cresswell (2001) Current measurements in the Maluku Sea, *J. of Geophys. Res.*, 106, 13,953 - 13,958.
- Cresswell, G.R., and J. Luick (2001) Current measurements in the Halmahera Sea, *J. of Geophys. Res.*, 106, 13,945 - 13,951.
- Hinwood, J., and J. Luick (2001) Long period waves in an island reef harbour. *Coral Reefs*, 20, 423 - 432.
- Luick, J.L. and R.F. Henry (2000) Tides in the Tongan region of the Pacific Ocean. *Marine Geodesy* 23, No. 1, pages 17-30.
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- Luick, J. (2000) Tides in the Tongan region of the Pacific Ocean. *Marine Geodesy* 23(1):17-29. DOI:10.1080/014904100273324
- Kowalik, Z., Luick, J.L., and Royer, T.C. (1994) On the Dynamics of the Alaska Coastal Current. *Continental Shelf Research* 14(7-8):831-845. DOI:10.1016/0278-4343(94)90075-2.

Books

Kowalik, Z., and J. Luick (2018) Modern theory and practice of tide analysis and tidal power. Austides Press, 203 pages. www.austides.com

Luick, J. (2004) Australian Tidal Handbook. Bureau of Meteorology, National Tidal Centre, 104 pages.

Technical reports (non-refereed)

Middleton, J.F. and J. Luick (2017) Circulation and dynamics of the Great Australian Bight (Research Report), Australian Marine Science Authority, Annual Conference, Darwin.

John F. Middleton, David Griffin, John Luick, Mike Herzfeld, Charles James and Peter Oke (2017) Physical Oceanography of the Great Australian Bight: the science that underpins. Great Australian Bight Research Program, Great Australian Bight Research Report Number 19, 35pp.

John F. Middleton, David Griffin, John Luick, Mike Herzfeld, Charles James and Peter Oke (2017) Theme synthesis report: Physical oceanography of the Great Australian Bight. Great Australian Bight Research Report Number 20, 17pp.

Griffin D, Hemer M, Herzfeld M, James C and Luick J (2017). Surface waves and their effects on circulation. Great Australian Bight Research Program, Great Australian Bight Research Report Number 21, 35pp.

Middleton, J, Griffin, DA, Luick, J, and Herzfeld, M. (2016) Hydrodynamic modelling of the circulation in the Great Australian Bight. Australian Coastal and Oceans Modelling and Observations (ACOMO) Workshop, Canberra.

McLeay, L., M. Doubell, S. Roberts, C. Dixon, L. Andreacchio, C. James, J. Luick, and J. Middleton (2015) Prawn and crab harvest optimisation: a bio-physical management tool. Final Report to the Fisheries Research and Development Corporation, June, 2015.

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Gillanders, b.M., Goldsworthy, S., Prowse, T., Ward, T., Doubell, M., and Luick, J. (2015) Spencer Gulf Research Initiative: Development of an ecosystem model for fisheries and aquaculture. Report number: FRDC Project No 2011/205. Affiliation: University of Adelaide and SARDI Aquatic Sciences

James, C., Ghanous, M., Doubell, M., Luick, J. Middleton, J., Babanin, A. (2014) Enhanced physics in ROMS/SWAN coupled biogeochemical model, Australian Meteorological and Oceanographic Society.

Mao, Y. and Luick, J.L. (2014) new mechanisms for stratification in the southern Great Barrier Reef identified in HF Radar and in situ data. Poster presented at Australian Meteorological and oceanographic Society.

Doubell, M.J., James, C., van Ruth, P., Luick, J., and Middleton, J. (2014) Development of a biogeochemical model for Spencer Gulf, South Australia: Application and implications for aquaculture development and sustainability. World Aquaculture Conference, Adelaide, South Australia, 7-11 June 2014.

Middleton J, James C, Luick J, Doubell MJ. (2014) A graphical user interface: A tool for the management of finfish carrying capacity: CarCap 1.0. World Aquaculture, Adelaide, Australia, June 7-11.

Doubell MJ, James C, Luick J, Middleton J. (2014) Development and application of ROMS based models for the South Australian region. Australia Coastal and Oceans Modelling and Observations (ACOMO) Workshop, Canberra, Australia, October 3-4.

Middleton, J., Doubell, M., James, C., Luick, J. and van Ruth, P. (2013). PIRSA Initiative II: carrying capacity of Spencer Gulf: hydrodynamic and biogeochemical measurement modelling and performance monitoring. Final Report for the Fisheries Research and Development Corporation. South Australian Research and Development Institute (Aquatic Sciences), Adelaide. SARDI Publication No. F2013/000311-1. SARDI Research Report Series No. 705. 97pp.

Luick, J., Doubell, M.J. and Middleton, J. (2013) A validated hydrodynamic model for Spencer Gulf and connectivity studies. In Middleton et al. (2013). PIRSA Initiative II: Carrying Capacity of Spencer Gulf: Hydrodynamic and Biogeochemical Measurement Modelling and Performance Monitoring. Final report for the Fisheries Research and Development corporation. South Australian Research and Development Institute (Aquatic Sciences), Adelaide. SARDI Publication No. F2013/000311-1. SARDI Research Report Series No. 705. 96 pp.

Gillanders, B., Luick, J.L., and 22 others (2013) Spencer Gulf Ecosystem and Development Initiative Report on Scenario Development, Stakeholder Workshops, Existing Knowledge and Information Gaps. Technical Report. The University of Adelaide, Adelaide. 94 pages.

Doubell, M. J., James, C., van Ruth, P. D., Luick, J., and Middleton, J. F. 2013. Modeling biogeochemical cycles in Spencer Gulf: Development of a nitrogen based ecosystem model and implications for aquaculture. In Middleton, J. F, (Ed.) PIRSA Initiative II: carrying capacity of Spencer Gulf: hydrodynamic and biogeochemical measurement, modelling and performance monitoring. FRDC Project No. 2009/046. SARDI Publication. South Australian Research and Development Institute (Aquatic Sciences), Adelaide. SARDI Publication No. F2013/000311-1. SARDI Research Report Series No. 705. 97 pp.

Doubell MJ, Dixon, C, Middleton J, Luick J, Roberts S, James C. (2012) Modelling the larval dispersal and recruitment of western king prawns, *Penaeus Laticulcatus*, to nursery grounds in Spencer Gulf, South Australia. Australian

Society for Fish Biology and Oceania Chondrichthyan Society Joint Conference and Symposium, Adelaide, Australia, July 16.

Middleton, J.F., James, C.E., Luick, J.L., Goldsworthy, S., Tsolos, A., Teixeira, C.E.P. and Richardson, L. (2011). Survey of Sonar Test Sites, Phase 1, Literature Review. Final Report for the Defence Science and Technology Organisation. SARDI Publication No. F2011/000212-1. SARDI Research Report Series No. 566. 67pp.

Dixon C, Doubell MJ, Roberts S, Luick J, James C, Middleton J. (2011) Development of a larval dispersal model for the optimisation of pre-Christmas harvest strategies for western king prawns in Spencer Gulf, South Australia. Australian Marine Sciences Association (AMSA) Annual Conference, Freemantle, Australia, July 3-7.

Sophie C. Leterme, Charles James, Shaun Byrnes, John Luick and John Middleton (2011). Microbial communities of the South Australian Shelf Waters, a SAIMOS study. Aust. Mar. Sci. Assoc., Canberra.

John Middleton, John Bye, Laura Richardson, Charles James, John Luick, Carlos Teixeira, Sophie Leterme (2011) A Review of the Physical Oceanography of the Great Australian Bight. Aust. Mar. Sci. Assoc, Canberra.

James, C.J., Luick, J.L., Byrnes, S.B., and Middleton, J., Physical Characteristics of the South Australian Shelf Waters: a SAIMOS study. Australian Marine Science Association, Canberra.

van Dongen-Vogels, V, Leterme SC, Paterson J, James C, Luick J, Middleton J, and Seuront L (2009) Influence of the structure of the water column on the dynamics of picophytoplankton communities across a continental shelf (South Australia). Australian Marine Science Association, Adelaide.

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Seuront L, Leterme SC, Middleton J, Byrnes S, James C, Luick J, Nedoncelle K, Paterson J, Teixeira C & van Dongen-Vogels V (2010) Biophysical couplings in South Australian shelf waters under conditions of summer upwelling and winter downwelling: results from the Southern Australia Integrated Marine Observing System (SAIMOS). In: Hall, J., Harrison D.E. & Stammer, D., (Eds.), Proceedings of the "*OceanObs'09: Sustained Ocean Observations and Information for Society*" Conference, Venice, Italy, 21-25 September 2009, ESA Publication WPP-306, 2010.

James, C., S. Leterme, J.L. Luick, J. Middleton, and L. Seuront (2009). Seasonal Variations in Physical Characteristics of the South Australian Shelf Waters. Poster, European Geophysical Union, General Assembly 2009, Vienna, Austria.

Middleton, J., L. Seuront, J. Luick, C. James, and C. Teixeira (2009) The biophysical landscape of the southern Australian shelves: modelling, climate, and climate change. Australian Marine Sciences Association, 46th Annual Conference, Adelaide.

- Herzfeld, M., J.F. Middleton, J.R. Andrewartha, J. Luick, and L. Wu (2009) Numerical Hydrodynamic Modelling of the Tuna Farming Zone, Spencer Gulf. Aquafin CRC Project 4.6, 100 pages.
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- Luick, J. (2002) Ocean currents in the vicinity of Trinidad and Tobago. Contract 2002-2, Austides Consulting.
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A recent photo of my wife and I on our 22nd wedding anniversary.