

Peter Roger Nuttall

D.O.B 15 September 1960
Nationality: New Zealand
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Qualifications

PhD, International Development Studies/Pacific Studies, Victoria University of Wellington (2013)
M.Soc.Sci Geography, University of Waikato (1998)
B.Soc.Sci Resource and Environmental Planning, University of Waikato (1995)
NZ Armed Forces Operational & Special Services Medals, East Timor (2000-01)
Restricted Radio Operator, Ministry of Economic Development, NZ (2001)

Current Employment

Senior Research Fellow,
Sustainable Sea Transport Research Programme
School of Marine Studies
The University of the South Pacific

CEO, Director
Sailing for Sustainability (Fiji) Ltd
<http://s4sfiji.com>

Referees

His Excellency, Tony de Brum, Ambassador Extraordinary and Plenipotentiary for Climate Change, Republic of the Marshall Islands, tdebrum@gmail.com

Captain Professor Michael Vahs, Professor for Ship Operation and Simulation, Hochschule Emden-Leer, University of Applied Sciences, michael.vahs@hs-empden-leer.de

Dr Wulf Killmann, Program Director & Senior Advisor, Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ), wulf.killmann@giz.de

Dr Tristan Smith, Lecturer in Energy and Transport, University College London-Energy Institute tristan.smith@ucl.ac.uk

Mr. Albon Ishoda, Deputy Head of Mission, Republic of Marshall Islands Suva Embassy, taishoda@gmail.com

Professor Joeli Veitayaki, School of Marine Studies, University of the South Pacific, joeli.veitayaki@usp.ac.fj

Career Summary

Dr Nuttall is a recognised expert in low carbon maritime transport solutions for SIDS. He has extensive experience in the Pacific at local, regional, national and international levels in a wide range of sustainable planning, policy development and implementation over more than two decades. His professional career has focused heavily on empowerment of local communities, especially relating to resource management matters. He has a track record of successful succession planning with his clients. He has a personal and professional commitment to quadruple bottom line processes and monitoring. His preference is to work at the interface where long-term sustainable policy meets practical implementation.

Dr Nuttall's Pacific experience includes as a researcher for WWF-South Pacific Programme, and for UK-ODA (1994-96). Peter was Head of Forestry and Deputy Director of Agricultural Reconstruction for the United Nations Transitional Government in East Timor (1999-2000). He was in Bougainville to observe the ceasefire in 1998 as part of the NZ government delegation and returned there 2 years later. From 2001 until 2012 he operated a consultancy in NZ providing sustainability planning and policy advice to iwi Maori, government and developers.

In NZ Peter has worked for numerous Maori hapu and iwi throughout New Zealand in the area of sustainability policy and planning (1988-2012). This included lead author of iwi management plans for the Waikato River and Manukau Harbour (Tainui), Otaki catchments (Ngati Raukawa) and hapu resource management policy for

Ngati Ruakawa, Te Rarawa, Ngati Rehia, Ngati Hine, Te Roroa and Ngati Wai. Peter has extensive experience in marine reserve and offshore conservation island planning and management. He was the Environmental Planner for the Far North District Council (2003-2006) and has worked for local and central government. He has been a reviewer of several large and small-scale renewable energy programmes, including Crest Energy's application for the world's largest tidal energy project, various wind farm proposals and small scale and micro-hydro. Many of these have included providing expert evidence to the NZ Environment Court.

Since 2006 Peter has been researching the potential for low carbon sea transport transition for Pacific island countries. This included self-funded research (2008-2012) culminating in submission of a doctoral thesis in February 2013. Dr Nuttall is currently a Senior Research Fellow at the University of the South Pacific where he leads the Sustainable Sea Transport Research Programme. He is lead author of an IRENA technical review of renewable energy potential for global shipping, and lead author of a comprehensive on-line toolkit for UNCTAD. His research has also focussed on Pacific sailing heritage and he is an acknowledged expert on *drua*, the massive blue-water Fijian battleships.

Since 2013 Dr Nuttall has led the development of a multidisciplinary research and teaching programme to underpin transition to low carbon sea transport for Pacific countries. This includes research at the international level into the interface between climate change negotiations and international shipping regulation under IMO and UNFCCC processes, as well as the options available for Pacific at regional, national and local level for more affordable, appropriate and sustainable transport solutions.

He has developed and delivers approved undergraduate courses in this field for the School of Marine Studies at USP and is currently supervising 4 masters students and 2 PhD candidates. He has negotiated research MOUs for this sector between USP and Fiji government, Marshall Islands government, University College London, Tyndall Manchester, Hochschule Emden/Leer and Portsmouth Universities. With his partner Alison he organised two major international conferences on this subject in 2012 and 2014 and has presented widely at workshops and conferences across the region and at leading centres globally. He regularly advises the governments of Fiji, Tuvalu, Kiribati, Solomon Islands and RMI on sustainable shipping and related climate change matters. He is a transport advisor to the Pacific Islands Development Forum. In 2014 he was awarded an ISSC seed grant in this field from the Transformations to Sustainability Programme.

Since 2014 Dr Nuttall has been an accredited delegate to the IMO for the Marshall Islands. He was requested by the RMI government to prepare a national strategy for transitioning the country to a low carbon transport pathway, beginning with maritime transport. Working with leading researchers and industry innovators in UK, Germany, Korea, US and Japan he has led development of the Micronesian Sustainable Transport Centre and related funding proposals. In parallel and in collaboration with UCL colleagues, he has been coordinating a coalition of Pacific and European member states to press for shipping emissions reduction targets in the IMO and UNFCCC, including preparation of the RMI submission to MEPC68 and subsequent co-sponsored submissions.

With his partner Alison Newell, he has established a specialist consultancy, Sailing for Sustainability (Fiji) Ltd, providing high quality policy and planning advice and research.

In a pre-academic life, Peter worked as a wooden boat builder and commercial sailor/captain and has sailed much of the Pacific Ocean over 25 years. He lives with his captain and two young crew on a small wooden sailing ship that operates almost exclusively on low carbon technologies and renewable energy and regularly plies between NZ and the Pacific. The family's fossil fuel footprint is 2% of the NZ national energy household average and 3% for water use. Their oldest son is a commercial sailor on a renewable energy powered freighter operating between Hawaii, Kiribati and the Cooks Islands.

With his sons he has recently launched the first *Drua* (double hulled Fijian sailing canoe) built in 50 years.

Book Chapters

Nuttall, P and J. Veitayaki (2015) "South Pacific and small island developing states: Oceania is vast, canoe is centre, village is anchor, continent is margin" in Smith, H.E et al (Eds) *Routledge Handbook of Ocean Resources and Management* (Hardcover Edition; Chapter 36 p.560-575) Routledge, London, ISBN 978-0-415-53175-7.

Nuttall, P., Vahs, M., Morshead, J. and Newell, A. (2016) "The case for field trialling and technology/knowledge transfer of emerging low carbon maritime technologies to Pacific Island Countries" in Burton, V. (Ed) *Renewable Energy: Sources, Applications and Emerging Technologies* (Hardcover Edition; Chapter 8 p.159-185) Nova Science Publishers, New York, ISBN 978-1-63485-671-3.

Papers

Nuttall P. and J. Ritchie (1995) Maori Participation in the Resource Management Act, *University of Waikato Occasional Paper No 37*. Centre for Maori Studies and Research, University of Waikato and the Tainui Maori Trust Board, Hamilton.

Nuttall P. and J. Ritchie (1995) *Maori participation in the Resource Management Act. An analysis of provision made for Maori participation in Regional Policy Statements and District Plans produced under the Resource Management Act 1991*. University of Waikato Occasional Paper No 39. University of Waikato, Centre for Māori Studies and Research, Hamilton.

Huakina Development Trust (1996) *Waikato Iwi Resource Management Plan for the Manuka Harbour and Catchments*. Tainui Māori Trust Board, Pukekohe. (Lead Author)

Nuttall P. (1998) *NGOs in Conservation in the Pacific, a collage of islands and issues*. Masters Thesis. Geography Department, Waikato University, Hamilton.

Nuttall P. (2012) Steering a course for the future with sticks, stones, grass and a little sharkskin: The case for revitalisation of sail technology and sailing culture as a practical sea-transport response to climate change and fossil fuel dependence/supply issues in Fiji. *Journal of Pacific Studies*, 32:163-175.

Nuttall P., K. Ledua, A. Newell, P. Vunaki and C. Philips (2012) *The Drua Files: a Report on the Collection and Recording of Cultural Knowledge of Drua and Associated Culture, June 2012*. Report prepared for the Oceanic Centre of Art, Culture and Pacific Studies, USP.

Nuttall P. (2013) *Sailing For Sustainability: The Potential Of Sail Technology As An Adaptation Tool For Oceania*. PhD Thesis, Victoria University of Wellington.

Nuttall, P., A. Newell, B. Prasad, J. Veitayaki and E. Holland (2014) A review of sustainable sea transport for Oceania: Providing context for renewable energy shipping for the Pacific. *Marine Policy*, 43:283-287 <http://dx.doi.org/10.1016/j.marpol.2013.06.009>

Prasad, B., J. Veitayaki, E. Holland, P. Nuttall, A. Newell, A. Bola and J. Kaitu'u (2013) Sustainable Sea Transport Research Programme: Toward a Research-based Programme of Investigation for Oceania. *Journal of Pacific Studies* 33:78-95.

Nuttall, P, Newell, A., Bola, A., et al (2014) Policy and financing—why is sea transport currently invisible in the search for a low carbon future for Pacific Island Countries? *Front. Mar. Sci.*, 15 July 2014, doi: 10.3389/fmars.2014.00020

Holland, E., P. Nuttall, A. Newell, B. Prasad, J. Veitayaki, A. Bola and J. Kaitu'u (2014) Connecting the Dots: Policy Connections between Pacific Island Shipping and Global Carbon Dioxide and Pollutant Emission Reduction, *Carbon Management*, 5(1) 93-105.

Nuttall, P., D'Arcy, P., and Philp, C. (2014) "Waqā Tabu – sacred ships: the Fijian Drua". *International Journal of Maritime History* (1-24). doi:10.1177/0843871414542736

Mofor, L., Nuttall, P., and Newell, A., (2015) "Renewable Energy Options for Shipping: Technology Brief". IRENA, Bonn. (Lead researcher and author).

Newell, A., Nuttall, P. and Holland, E. (2015) Sustainable Sea Transport for the Pacific Islands: The Obvious Way Forward. Brief for *UN Global Sustainable Development Report 2015*

<https://sustainabledevelopment.un.org/content/documents/591456-AlisonNewell-Sustainable%20sea%20transport%20for%20the%20Pacific.pdf>

Nuttall, P. *The Case For Immediate Prioritization Of A Transition To A Low Carbon Freight Future For Pacific Islands States*, Multi-year Expert Meeting on Transport, Trade Logistics and Trade Facilitation: Sustainable Freight Transport Systems: Opportunities for Developing Countries 14-16 October 2015. <http://unctad.org/meetings/en/Presentation/Peter%20NUTTALL.pdf>

Newell, A., Nuttall, P., Prasad, B. and Veitayaki, J. (2016) Turning the Tide: the need for sustainable sea transport in the Pacific, *Marine Policy* (2016) <http://dx.doi.org/10.1016/j.marpol.2016.01.009i>

Nuttall, P. and Kaitu'u, J. (2016) The Magnus Effect and the Flettner Rotor: potential application for Oceanic Shipping, *Journal of Pacific Studies*. Vol 36, Issue 2 pp 161-182

Nuttall, P. and A. Newell (2016) Transitioning to Low Carbon Shipping Module – Sustainable Sea Transport Solutions for SIDS: Pacific Island Countries Case Studies. Online toolkit hosted by UNCTAD (Lead researcher and author). <http://unctadsftportal.org/sftftoolkit/transitioningtolowcarbonshippingmodule/>