



eCoast



CURRICULUM VITAE - Dr Shaw Mead

PERSONAL DETAILS:

Name: Shaw Trevor Mead

Nationality: New Zealand

Date of Birth: 1967

Profession: Environmental Scientist/Consultant

Contact Details: Ph: +64 21 423 224 E: s.mead@ecoast.co.nz www.ecoast.co.nz

SPECIALISATION:

Coastal oceanography, beach processes, coastal hazards/SLR, marine and freshwater ecology, coastal structure design and impact assessment, multi-purpose reefs, hydrodynamic and sediment transport numerical modelling, aquaculture, environmental impact assessment, expert witness/reviewer.

YEARS OF EXPERIENCE: 21

PRESENT POSITIONS:

- Managing Director/Environmental Scientist, eCoast Ltd
- Director, Eco Surf Viti Ltd
- Lecturer and Research Provider, Unitec.

KEY QUALIFICATIONS:

- PhD in Coastal Oceanography & Numerical Modelling, University of Waikato, New Zealand (1996-2000)
- MSc (Hons) in Environmental Science & Marine Ecology/Aquaculture, University of Auckland, New Zealand (1994-96)
- BSc in Marine Biology & Botany, University of Auckland, New Zealand (1991-93)

PROFESSIONAL MEMBERSHIPS:

- New Zealand Coastal Society (IPENZ)

- Technical Advisor for the Surfbreak Protection Society (NZ) and Save the Waves Coalition
- Editorial Board for the Journal of Coastal Conservation, Planning and Management

PERSONAL STATEMENT:

Dr Mead's background in coastal oceanography and marine ecology, specialising in hydrodynamic and sediment transport numerical modelling, coastal processes, coastal protection, submerged structures and amenity enhancement, and ecological assessment, allows him to effectively bridge the multi-disciplinary gap between physical processes and marine ecological impacts. His PhD thesis in physical oceanography is based on a series of peer-reviewed papers that together with more than 30 popular articles, have presented novel techniques to record the shape of the seabed and surfing reefs, specify the breaking intensity of waves and to break-down surfing reefs into their morphological components using numerical modelling. Dr Mead's research and consulting have led to major advances in our knowledge of offshore reefs for the development of multiple-use structures (coastal protection, amenities such as surfing, wind-surfing, diving, fishing, and ecological enhancement), and have incorporated numerical modelling of waves, currents and sediment transport to develop the designs and assess the impacts of coastal structures over a large range of spatial and temporal scales. Dr Mead is a world-leader in the discipline of surf science and multi-purpose reef design and research, enabling the incorporation of high-quality surfing reefs into multi-purpose coastal structures. This work has also been applied to the development of recreational wave-pool designs and patents, and advising on wave generation techniques for a range of applications (e.g. for water scenes in the King Kong movie). Commercially, Dr Mead has been involved in development of beach management and coastal remediation/protection strategies, assessments of coastal hazards, marina and beach design, ecological and physical effects of marine construction, dredging, oil industry and aquaculture ventures, and the development of climate change resilience strategies to sea level rise.

Practical Experience

Dr Mead is currently an environmental scientist and Managing Director at eCoast, which is a marine consulting and research organization, focussed on applying up to date knowledge on physical and biological processes in a holistic approach to coastal and estuarine management. Dr Mead has 21 year's experience in marine research and consulting, has published over 40 peer-reviewed publications, has solely or jointly produced over 250 technical reports pertaining to coastal management/hazards, coastal structures, erosion control, beach remediation and management strategies, surf break protection and management, marina and beach design, marine and freshwater ecology, coastal oceanography and aquaculture. Dr Mead has undertaken more than 2000 consulting and research SCUBA dives around the coast of New Zealand, the Pacific Islands, Indian Ocean Islands, South Africa, Europe, Indonesia and North America, and is affiliated to the New Zealand Coastal Society (IPENZ). Dr Mead is also experienced at presenting expert witness evidence at resource consent hearings and in environment and high court, as well as public meetings and seminars. To keep up to date with the latest advances in coastal science and numerical modelling, Dr Mead regularly attends national and international conferences such as the ICCE, the Australasian Coasts and Ports and NZCS (IPENZ). Dr Mead has led or been involved in a range of projects related to all aspects of coastal management and development including design and impact studies of coastal structures, beaches, marinas and multi-purpose reefs (coastal protection, amenity and ecological enhancement) (in NZ, UK, Australia, US, Fiji, Costa Rica, Mexico, South Africa, New Caledonia), coastal process investigations to identify the causes and remedies for coastal erosion (in NZ, Australia, UK, South Africa, Indian Ocean Islands), port expansion (breakwaters and directed wave-driven currents to reduce maintenance dredging), oil field development (NZ and Australia), habitat enhancement (in NZ), artificial reef designs for enhancement of fisheries and tourism (in NZ, Persian Gulf, Fiji), surf break impacts and management, and beach management and climate change resilience strategies. These projects have included field data acquisition, data analysis, design, impact assessment, public consultation and application for permits. Clients have included central and local government authorities, private and public corporations, international engineering and

management companies, private developers, hotels and resorts and aid providers (NZODA, ADB, SPC, UNDP).

Dr Mead's career is focussed on the application of environmental science for sustainable development and the management of environmentally beneficial projects, and, like his associates with eCoast, he actively seeks ways to provide clients and the community with well-balanced solutions to coastal management and development projects.

SPECIALISED SKILLS/TRAINING AND OTHER BACKGROUND

- Company Director, Technical Group Manager, Project Manager, Project Leader/Field work programme leader, Designer – Managing Director/Director of ASR Ltd (1997-2011), Managing Director of eCoast (2011-present), Management of technical team and consulting/construction projects, Expert Witness, design and implementation of oceanographic data collection programmes for coastal process investigations and numerical model calibration, multi-purpose reef development/design (>40 projects), design of coastal structures and beach restoration/development projects, beach and marina design, beach management and resilience strategies for sea level rise, and ecology data collection programmes for ecological assessment and monitoring.
- Entrepreneur of the Year Finalist, 2009
- While Managing Director of ASR Ltd:
 - 10th fastest growing company in New Zealand (Deloitte's Fast 50)
 - Fastest exporter company in central North Island (Deloitte's)
 - Fastest growing technical, media, telecommunications company in central North Island (Deloitte's)
 - ANZ Waikato Export Awards 2006 Innovator of the Year (ASR Ltd).
- Computer modelling (the 3DD suite) - WBEND (wave refraction and beach erosion/deposition model), GENIUS (sediment transport), 3DD (3-dimensional hydrodynamic and sediment transport), 2DBEACH (coupled beach and sediment transport model), Pol3DD ((POLlution dispersal coupled to 3DD – sediment transport, pollutants, larvae, etc.). Data analysis. Experience with a wide range environmental parameter testing procedures and equipment (water – nutrients, chemical properties, biological properties, etc., air, sediment, etc.)
- 4th Year Resource Management Law (NZ RMA 1991)
- Experienced with a variety of software applications especially in areas useful for numerical modelling, GIS and statistical analysis of data including; Surfer, AutoCAD, Grapher, SigmaStat/Plot, Matlab, Statistica, Basic FORTRAN, Mocha, Kaliedograph, Pathfinder
- Experienced with the deployment and data analysis of a variety of oceanographic data acquisition equipment - GPS (a wide range of systems), sonar, S4, Sontek ADP, FSI, Dobie, Aqaudopp, Sentinel, CTD's, etc.
- Lecturer – Coastal Engineering, Environmental Changes, AutoCAD, Physics
- Rescue diver (>2000 field-work dives)
- Day Skipper's Certificate/Restricted Radiotelephone Operator's Licence
- Martial Arts Instructor (3rd Dan)
- Senior Science Award (University of Auckland)
- Paton Cup – Highest Marks in New Zealand School Certificate Technical Drawing

Peer-Reviewed Papers: 49

Conference Papers: 13

Technical Reports: >250

International Conference Presentations: 27

National Conference Presentations: 22

Seminars and Public Presentations: 48

Expert Witness: 44

Popular Articles: 33

Graduate Student Supervision: 16

Keynote Presentations: 8

Book Chapters: 2

NATIONAL AND INTERNATIONAL CONFERENCES ATTENDED:

The 22nd Australasian Coasts and Ports Conference, Auckland, New Zealand, 15-18 September, 2015

Fiji-New Zealand and New Zealand-Fiji Business Councils Annual Joint Conference, Auckland, New Zealand, 12 June 2015.

New Zealand Coastal Society (IPENZ) Conference. Raglan, New Zealand, November 2014

Fiji-New Zealand and New Zealand-Fiji Business Councils Annual Joint Conference, Suva, Fiji, 28 June 2014.

The 21st Australasian Coasts and Ports Conference, Manly, Australia, September, 2013

New Zealand Climate Change Conference, Palmerston North, 4-5 June 2013

New Zealand Coastal Society (IPENZ) Conference. Auckland, New Zealand, November 2012

ASBPA 2012 National Coastal Conference. San Diego, October 2012

New Zealand Fiji Business Council Conference, Nadi, 16-17 June, 2012

Sea-Level Rise – Meeting the Challenge, Wellington 10-11 May 2012.

New Zealand Coastal Society (IPENZ) Conference. Nelson, New Zealand, November 2011.

The 20th Australasian Coasts and Ports Conference, Perth, Australia, September, 2011

New Zealand Coastal Society (IPENZ) Conference. Whitianga, New Zealand, November 2010.

32nd International Conference on Coastal Engineering. Shanghai, China, June 30 – July 5, 2010.

Australasian Young Planners Conference VPCoconnect2010. Christ Church, New Zealand, 19-20 April 2010. 7th International Multi-Purpose Artificial Surfing Reef Symposium, Bondi Beach, Sydney, Australia, March 19th, 2010.

The 19th Australasian Coasts and Ports and NZ Coastal Society (IPENZ) Conference, Wellington, New Zealand, September 15-18th, 2009

6th International Multi-Purpose Artificial Surfing Reef Symposium, Jeffrey's Bay, South Africa, May 18-21st, 2009

New Zealand Coastal Society (IPENZ) Conference. New Plymouth, New Zealand, November 2008.

New Zealand Coastal Society (IPENZ) Conference. Tauranga, New Zealand, November 2007.

The 18th Australasian Coasts and Ports Conference, Melbourne, Australia, July 2007

Inaugural Conference of The Dune Restoration Trust of New Zealand. Tauranga, New Zealand, 13-17 February, 2007

New Zealand Coastal Society (IPENZ) Conference. Kaikoura, New Zealand, 15-17 November 2006.

5th International Surfing Reef Symposium, Heaven on the Planet, Lombok, Indonesia, July 31-August 3, 2006

The 3rd Western Australian Coastal Conference. Bunbury, West Australia, 16-18 November 2005

New Zealand Coastal Society (IPENZ) Conference. Tutukaka, New Zealand, 12-14 October 2005.

The 17th Australasian Coasts and Ports Conference, Hilton Hotel, Adelaide, Australia, 21-23 September 2005

The 4th International Surfing Reef Conference. Manhattan Beach, California, 11-14 January 2005.

New Zealand Coastal Society (IPENZ) Conference. Dunedin, New Zealand, 18-20 October 2004.

The 2nd Western Australian Coastal Conference. Geraldton, West Australia, 20-21 November 2003.

SASIC 3 - Third Surfing Arts, Science and Issues Conference. Doheny Doubletree Inn, Dana Point, California, USA, 8-9 November 2003

The 16th Australasian Coasts and Ports Conference, Hyatt Regency Hotel, Auckland, New Zealand, 9-12 September 2003

The 3rd International Surfing Reef Conference. Karioi Centre, Raglan, New Zealand, 23-25 June 2003.

SASIC 2 - Second Surfing Arts, Science and Issues Conference. Holiday Inn, Ventura, California, USA, 9 November 2002

New Zealand Marine Science Conference, Rutherford Hotel, Nelson, New Zealand, September 2-4 2002

New Zealand Coastal Society (IPENZ) Annual Symposium, Tahuna Beach Conference Centre, Nelson, New Zealand, October 17-18 2001

The 15th Australasian Coasts and Ports Conference, Gold Coast, Australia, Sept 28-1 Oct 2001

New Zealand Marine Science Conference, Waikato University, Hamilton, August 2000

International Coastal Symposium 2000, Sheraton Hotel, Rotorua, New Zealand, April 24-27 2000

New Zealand Marine Science Conference, Victoria University, Wellington, August 1999

The 14th Australasian Coasts and Ports Conference, Perth, Australia, April 1999

Joint Australasian Botany Society/New Zealand Marine Sciences Society Conference, University of Otago, Dunedin, July, 1998

2nd Annual International Artificial Surfing Reef Symposium, San Diego, April 1998

Joint New Zealand/Australia Marine Science Conference, Auckland, July 1997

New Zealand Marine Science Conference, University of Canterbury, Christ Church, August 1996

New Zealand Marine Science Conference, Victoria University, Wellington, August 1995

PUBLICATION SUMMARY

Peer-reviewed publications

Haggitt, T., and S. T. Mead, 2015. Makara Estuary Monitoring: Effects-based monitoring within a degraded, yet dynamic, coastal environment. *Proceedings of the 22th Australasian Coasts and Ports Conference*, Auckland, New Zealand, 15-18 September 2015.

Mead, S. T., J. C. Borrero, E. Atkin and D. J. Phillips, 2015. Application of Climate Change Adaptation, Resilience, and Beach Management Strategies on Coral Islands. *Proceedings of the 22th Australasian Coasts and Ports Conference*, Auckland, New Zealand, 15-18 September 2015.

Mead, S. T., D. Phillips and A. Prime, 2013. Development of a Multi-Purpose Breakwater/Reef at Maqai Eco Surf Resort, Qamea Island, Fiji. *Proceedings of the 21th Australasian Coasts and Ports Conference*, Sydney, Australia, 11-13 September 2013.

Mead, S. T., D. J. Phillips, and T. Haggitt, 2011. Development of a GIS to Determine the Vulnerability of Regionally Significant Marine Receiving Environments to Land-Use Impacts. *Proceedings of the 20th Australasian Coasts and Ports Conference*, Perth, Australia, 27-30 September 2011.

Atkin, E. A., J. C. Borrero and S. T. Mead, 2013. Morphological Response to a Multi-Purpose Reef. *Journal of Coastal Engineering*, (Submitted).

Mead, S. T., and J. C. Borrero, 2011. Multi-Purpose Reefs – A Decade of Applications. *Proceedings of the 20th Australasian Coasts and Ports Conference*, Perth, Australia, 27-30 September 2011.

Borrero, J. C., S. T. Mead and A. Moores, 2010. Stability Considerations and Case Studies of Submerged Structures Constructed from Large, Sand-Filled, Geotextile Containers. *Proceedings of 32nd International Conference on Coastal Engineering*. Shanghai, China, June 30 – July 5, 2010.

Mead S.T, C. Blenkinsopp, J. C. Borrero and A. Moores, 2010. Design and Construction of the Boscombe Multi-Purpose Reef. *Proceedings of 32nd International Conference on Coastal Engineering*. Shanghai, China, June 30 – July 5, 2010.

Scarfe, B., T. Healy, H. Rennie and S. Mead, 2009. Sustainable Management of Surfing Breaks: Case Studies and Recommendations. *Journal of Coastal Research*, 25(3): 684-703.

Harrison, S., J. Borrero, C. Klinginger, S. T. Mead and D. Phillips, 2009. Hydrodynamic Modelling of Whaingaroa Harbour. *Proceedings of the 19th Australasian Coasts and Ports Conference*, Wellington, NZ, 16-18 September 2009.

Phillips D., S. T. Mead, S. Harrison J. Frazerhurst, G. Dodet, C. Klinginger and J. Borrero, 2009. Oceanography in the Public Interest: Tales from Raglan. *Proceedings of the 19th Australasian Coasts and Ports Conference*, Wellington, NZ, 16-18 September 2009.

Black, K.P., A.E. Moores, and S.M. Mead, 2009. Effect of Input Wave Shape on Surfing Wave Quality. *Coastlab08 - Application of Physical Modelling to Port and Coastal Protection*. Publisher: IAHR. ISBN: 78-90-78046-07-3.

Mead, S. T., 2009. *Multiple-Use Options for Coastal Structures: Unifying Amenity, Coastal Protection and Marine Ecology*. The Reef Journal, Vol. 1, 2009. ISSN No. 1176-7812.

Phillips, D. J., and S. T. Mead, 2008. Investigation of a Large Offshore Sandbar at Raglan, New Zealand: Impacts on Surfing Amenity. *Shore and Beach* Vol 76(2) Spring 2008

Black K. P., and S. T. Mead, 2007. Sand bank responses to a multi-purpose reef on an exposed sandy coast. *Shore and Beach* 75(4):55-66.

Mead, S. T., J. C. Borrero, K. P. Black and D. Anderson, 2007. Multi-Faceted Beach Management at St Francis Bay Beach, South Africa. *Shore and Beach* 75(4):43-54.

Mead S. T., and D. J. Phillips, 2007. Temporal and Spatial Variation of a Large Offshore Sandbar at Raglan, NZ. *Proceedings of the 18th Australasian Coasts and Ports Conference*, Melbourne 2007.

Mead S. T., K. P. Black and A. Moores, 2007. Mount Maunganui Reef – Amalgamating Design and the Constraints of Construction. *Proceedings of the 17th Australasian Coasts and Ports Conference*, Melbourne 2007.

Longdill, P. C., T. R. Healy, K. P. Black and S. T. Mead, 2007. Integrated Sediment Habitat Mapping for Aquaculture Zoning. *Journal of Coastal Research*, Special Issue 50, *Proceedings of the International Coastal Symposium*, Australia.

Mead, S. T., and K. Black, 2006. Innovative Shoreline Protection for Oil Piers, Ventura, (USACE Section 227 Demonstration Program). 30th International Conference on Coastal Engineering, September 3-8, 2006. Manchester Grand Hyatt San Diego, San Diego, California.

- Phillips, D. J., and S. T. Mead, 2006. *Investigation of a Large Sandbar at Raglan, New Zealand: Project Overview and Preliminary Results*. 5th International Surfing Reef Symposium, Lombok, Indonesia, July 31-August 3, 2006. Volume 1: Reef Journal ISSN No:1176-7812.
- Moore, A., K. P. Black and S. T. Mead, 2006. Physical Modelling of the Mount Maunganui Artificial Surfing Reef. *CoastLab06*, Porto, Portugal.
- Mead, S. T., and K. P., Black, 2005. Development of a Multi-Purpose Reef at Orewa Beach, New Zealand. *Proceedings of the 17th Australasian Coasts and Ports Conference*, Adelaide.
- Scarfe, B., Rennie, H, S. T. Mead, T. R. Healy and C. Nelson, 2005. Sustainable Management of Surfing Breaks – An Overview. 4th International Artificial Surfing Reef Symposium. Volume 1: Reef Journal ISSN No:1176-7812.
- Black, K. P., and S. T. Mead, 2005. Design of Surfing Reefs. 4th International Artificial Surfing Reef Symposium – Volume 1: Reef Journal ISSN No:1176-7812.
- Mead, S. T., K. P. Black, B. Scarfe, L. Harris and C. Blenkinsopp, 2005. Detailed Design of a Multi-Purpose Reef at Oil Piers, Ventura, California. 4th International Artificial Surfing Reef Symposium – a Special Issue of the *Journal of Coastal Research*. Submitted.
- Ertfemeijer, P. L. A., R. F. de Graaff, S. T. Mead and G. Boot, 2004. Site-Selection for Artificial Reefs in Bahrain Based on GIS-Technology and Hydrodynamic Modelling. *Ocean & Coastal Management*.
- Black and Mead, 2003. Numerical Prediction of Salient Formation in the Lee of Offshore Reefs. *Proceedings of the 3rd International Surfing Reef Symposium, Raglan, New Zealand, June 22-25, 2003*. Pp 196-218.
- Mead, S. T., and P. McComb, 2003. Remote Video Sensing to Support Ecological Impact Assessment: the correlation of habitat complexity and species diversity/abundance allows for confident assessment of large subtidal areas. *Proceedings of The 16th Australasian Coasts and Ports Conference*, Hyatt Regency Hotel, Auckland, New Zealand, 9-12 September 2003
- Frazerhurst, J., and S. T. Mead, 2003. Determination of Optimum Wave Energy Converter Device Locations Utilising Numerical Modelling of Wave Transformation. *Proceedings of the Fifth European Wave Energy Conference*, Cork, Ireland, 17-20 September, 2003.
- McComb, P., K. P. Black and S. T. Mead, 2003. *A Surfing Reef Feasibility Study at Opunake, New Zealand*. 3rd International Artificial Surfing Reef Symposium, Raglan, New Zealand 23-25 June 2003. ISBN 0-473-09801-6 2003
- Phillips, D. J., T. R. Healy, K. P. Black and S. T. Mead, 2003. *Surf Zone Currents and Influence on Surfability*. 3rd International Artificial Surfing Reef Symposium, Raglan, New Zealand 23-25 June 2003. ISBN 0-473-09801-6 2003
- Hadersdorfer, H., K. P. Black and S. T. Mead, 2003. *Floating Reefs for Surfing Pools*. 3rd International Artificial Surfing Reef Symposium, Raglan, New Zealand 23-25 June 2003. ISBN 0-473-09801-6 2003
- Scarfe, B., M. H. S. Elwany, S. T. Mead and K. P. Black, 2003. *Categorising the Types of Surfing Breaks Around Jetty Structures*. 3rd International Artificial Surfing Reef Symposium, Raglan, New Zealand 23-25 June 2003. ISBN 0-473-09801-6 2003
- Scarfe, B., M. H. S. Elwany, S. T. Mead and K. P. Black, 2003. *The Science of Surfing Waves and Surfing Breaks: A Review*. 3rd International Artificial Surfing Reef Symposium, Raglan, New Zealand 23-25 June 2003. ISBN 0-473- 09801-6 2003
- Burgess, S. C., K. P. Black, S. T. Mead, M. J. Kingsford, 2003. *Considerations for Artificial Surfing Reefs as Habitat for Marine Organisms*. 3rd International Artificial Surfing Reef Symposium, Raglan, New Zealand 23-25 June 2003. ISBN 0-473-09801-6 2003
- Mead, S. T., K. P. Black, J. Frazerhurst and B. Scarfe, 2003. *The Effects of Wave Focussing on Surfing Reef Site Selection, Surfing Wave Quality and ASR Design at Scales of Inner Continental Shelf to Sub-*

Tidal Reef. 3rd International Artificial Surfing Reef Symposium, Raglan, New Zealand 23-25 June 2003. ISBN 0-473-09801-6 2003

Mead, S. T., 2003. *Surfing Science*. Proceedings of The 3rd International Surfing Reef Conference. Karioi Centre, Raglan, New Zealand, 23-25 June 2003. ISBN 0-473-09801-6 2003

Scarfe, B. E., A. K. Chong, W. P. de Lange, S. T. Mead and K. P. Black, 2003. Metric and Non-Metric Application of a Two-Dimensional Projective Coordinate Transformation for Coastal Zone Studies. *Photogrammetric Engineering and Remote Sensing*.

Scarfe, B. E., K. P. Black, A. K. Chong, W. L., de Lange, D. Phillips and S. T. Mead, 2003. The Application of Surveying Techniques to Artificial Surfing Reef Studies. *Trans-Tasman Surveyor*, April Edition, 2003.

Hutt, J.; Black, K. and Mead, S., 2001. Classification of Surf Breaks in Relation to Surfing Skill. Special Issue 29, *Journal of Coastal Research* p66-81.

Black, K. P., & S. T. Mead, 2001b. *Wave Rotation for Coastal Protection*. Proceedings of the Australasian Coasts & Ports Conference, Gold Coast, Queensland, Australia, 25-28 September 2001.

Black, K.P. and Mead, S., 2001a. Design of the Gold Coast Reef for Surfing, Public Amenity and Coastal Protection. Special Issue 29, *Journal of Coastal Research* p115-130.

Mead, S. T. & K. P. Black, 2001c. Predicting the Breaking Intensity of Surfing Waves. Special Issue of the *Journal of Coastal Research on Surfing* p51-65.

Mead, S. T. & K. P. Black, 2001b. Functional Component Combinations Controlling Surfing Wave Quality at World-Class Surfing Breaks. Special Issue of the *Journal of Coastal Research on Surfing* p21-32.

Mead, S. T. & K. P. Black, 2001a. Field Studies Leading to the Bathymetric Classification of World-Class Surfing Breaks. Special Issue of the *Journal of Coastal Research on Surfing* p5-20.

Mead, S. T. and K. P. Black, 1999. A Multi-Purpose, Artificial Reef at Mount Maunganui Beach, New Zealand. *Coastal Management Journal* 27(4).

Mead, S. T. and K. P. Black, 1999. *Configuration of Large-Scale Reef Components at a World-Class Surfing Break: Bingin Reef, Bali, Indonesia*. Proceedings of the Australasian Coasts & Ports Conference, Perth, Australia, 13-16 April, 1999.

Black, K.; Mead, S.; McComb, P. and Healy, T., 1999. Numerical modelling to amalgamate recreational amenity and coastal protection on sandy and rocky coasts. *Coastal Structures '99 Conference*, 2, 823-832, Spain, 6 June 1999.

Theses and Book Chapters

Mead S. T., and J. C. Borrero, 2014. *Chapter 19 - Beach Management*. Submitted for a post-graduate and practitioner's text book titled Marine and Coastal Resource Management: Principles and Practise.

Mead S. T., and J. C. Borrero, 2014. *Chapter 20 -Surf Science and Multi-Purpose Reefs*. Submitted for a post-graduate and practitioner's text book titled Marine and Coastal Resource Management: Principles and Practise.

Mead, S. T., 2000. *Incorporating High-Quality Surfing Breaks into Multi-Purpose Reefs*. Doctor of Philosophy in Coastal Oceanography and Surfing Reefs thesis. University of Waikato. Pp 209 + appendices.

Mead, S. T., 1996. *Fertilization success, sustainable management and commercial development of the New Zealand sea urchin, Euechinus chloroticus*. Masters of Science in Environmental Science and Zoology thesis. University of Auckland. 185 pp + appendices.

Expert Evidence

Mead, S. T., 2015. *Statement of Evidence in Chief*. On behalf of Auckland Council, for impacts on coastal processes due to marina zone extensions for the Proposed Auckland Unitary Plan. Environment Court, December 2015

Mead, S. T., 2015. *Statement of Evidence in Chief*. On behalf of Ngai Te Hapu of Motiti Island, for the resource consent application by the Astrolabe Community Trust to abandon the wreck of the MV Rena. Environment Court, July 2015.

Mead, S. T., 2015. *Statement of Evidence in Chief*. Prepared for the Respondent, PBC and KCSRA in relation to and Application for Resource Consent – Coastal Permit – Beatrix Bay, Central Pelorus Sounds – Env-2014-env-Chc-34, March 2015

Mead, S. T., and T. Haggitt, 2014. *Assessment of Waiwhakaiho Reef to Determine the Extent of the Disturbance After the MV Lake Triview Came into Contact with the Reef*. Prepared for P and I Ltd, November 2014.

Mead, S. T., 2014. *Statement of Evidence in Chief of Dr Shaw Mead; Sea Level Rise and Inundation of Jackett's Island*. Prepared for prepared for the B and M Van Dyke Family Trust, Environment Court Hearing, November 2014.

Mead, S. T., and D. Greer, 2014. *Assessment of the Sediment Plume Models Provided in the CRP Marine Consent Application*. Expert report on sediment plume modeling prepared for the NZ EPA, September 2014

Mead, S. T., 2014. *Statement of Supplementary of Dr Shaw Mead; Potential Coastal Hazard Impacts on the Gallagher Properties*. Prepared for Duncan Cotterill Solicitors, July 2014.

Mead, S. T., 2014. *Jackett's Island – Costing of Steps to Prevent Further Erosion of the Van Dyke property*. Expert Report prepared for the B and M Van Dyke Family Trust, High Court Hearing, July 2014.

Mead, S. T., 2014. *Statement of Evidence in Chief of Dr Shaw Mead; Potential Coastal Hazard Impacts on the Gallagher Properties*. Prepared for Duncan Cotterill Solicitors, June 2014.

Mead, S. T., 2014. *Review of Mr Davidson's and Mr Forrest's Evidence Dated 21st May 2014 with Regard to the Application for Resource Consent for a Coastal Permit in Beatrix Bay*. Expert report prepared for PBC and KCSRA in relation to and Application for Resource Consent – Coastal Permit – Beatrix Bay, Central Pelorus Sounds – U130797, May 2014

Mead, S. T., and T. Haggitt, 2014. *Desktop Summary of Current Level of the Science and Understanding of the Cumulative Ecological Impacts of Mussel Farms Ring-Fencing Coastlines such as Beatrix Bay, Marlborough Sounds*. Expert report prepared for PBC and KCSRA in relation to and Application for Resource Consent – Coastal Permit – Beatrix Bay, Central Pelorus Sounds – U130797, May 2014

Mead, S. T., and D. Greer, 2014. *Pre-Lodgement review of the application information in terms of the information principles under section 61 of the EEZ Act*. Prepared for the EPA in relation to CRP deepsea phosphate extraction, May 2014

Mead, S. T., 2014. *Statement of Evidence in Chief of Dr Shaw Mead; Potential Impacts on Surfing Wave Quality Due to Seabed Mining*. Prepared for of Trans-Tasman Resources Ltd, EPA Hearing, January 2014.

Mead, S. T., 2013. *Expert Witness Statement for the Environment Court for the Consideration of Long Term Solutions to Motueka Spit*. Prepared for the B and M Van Dyke Family Trust, Environment Court Hearing, August 2013.

Mead, S. T., and T. Haggitt, 2014. *Desktop Summary of Current Level of the Science and Understanding of the Cumulative Ecological Impacts of Mussel Farms Ring-Fencing Coastlines such as Beatrix Bay, Marlborough Sounds*. Expert report prepared for PBC and KCSRA in relation to and Application for Resource Consent – Coastal Permit – Beatrix Bay, Central Pelorus Sounds – U130797, May 2014

Mead, S. T., 2013. *Expert Witness Statement for the Resource Consent Hearing for resource consents in respect of applications to dispose of capital and maintenance dredge spoil nearshore in the vicinity of two*

Nationally Significant Surfing Breaks. Prepared for the Surfbreak Protection Society, Resource Consent Hearing, May 2013.

Mead, S. T., 2014. *Review of Evidence with Regard to the Application for Resource Consent for a Coastal Permit in Beatrix Bay*. Expert opinion prepared for Commissioner Kenderdine, May 2014.

Mead, S. T., 2013. *Expert Witness Statement for the Environment Court in Opposition of an Application to Cancel the Existing Enforcement Order with regard to the Motueka Spit Deflector Groyne*. Prepared for the B and M Van Dyke Family Trust, Environment Court Hearing, January 2013.

Mead, S. T., 2012. *Expert Witness Statement for the EPA Proceedings of Proposed NZ King Salmon Farms in the Marlborough Sounds – Benthic Impacts*. Prepared for SOS/NUC, EPA Hearing, July 2012.

Mead, S. T., 2011. *Review of Application to Renew Resource Consent for the Disposal of Dredged Material at Aramoana Spit*. Expert Witness statement prepared for the NZ Surfbreak Protection Society, Resource Consent Hearing, September 2011.

Mead, S. T., 2011. *Expert Witness Statement for the Proposed Bay of Plenty Coastal Policy Statement*. Prepared and presented for the NZ Surfbreak Protection Society, Regional Plan Submitters Hearing, September 2011.

Mead, S. T., 2011. *Review of Pine Harbour Dredging Consents*. Environment Court Expert Witness report prepared for the Auckland Council, March 2011.

Mead, S. T., 2010. *Supplementary Evidence for Environment Court – Port Motueka Spit*. Prepared for the Van Dyke Family Trust, Environment Court Hearing, September 2010.

Mead S. T., 2010. *Rebuttal Evidence for Environment Court – Port Motueka Spit*. Prepared for the Van Dyke Family Trust, Environment Court Hearing, September 2010.

Mead S. T., 2010. *Affidavit and Evidence for Environment Court – Port Motueka Spit*. Prepared for the Van Dyke Family Trust, Environment Court Hearing, September 2010.

Mead, S.T., 2010. *Expert Evidence for Environment Court – Biological Impacts and Monitoring of Makara Estuary and the open coast for the Mill Creek Component of Project West Wind*. Environment Court Hearing, Prepared for Meridian Energy July, 2010

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- Numerical model development
- Development of a calibrated tidal model of Raglan Harbour
- Design and function of, and novel construction techniques for MPR's
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