
LUCIEER PUBLICATION RECORD 2009

JOURNAL PUBLICATIONS [A1]

1. **Lucieer, V** & Lucieer, A (*In Press*) Fuzzy c-Means for Seafloor Classification. *Marine Geology*.
2. **Lucieer, V.** and Pederson, H. (2008). Linking morphometric classification of rocky reef from multibeam data to fine scale lobster movement. *ISPRS Journal of Photogrammetry and Remote Sensing- Theme Issue `Remote Sensing and GIS for Coastal Ecosystem Assessment and Management'*. **63**, 496-509
3. **Lucieer, V.** (2008) Object oriented classification of sidescan sonar data for mapping benthic marine habitats. *International Journal of Remote Sensing*, **29** (3) 905-921.
4. **Lucieer, V.L.** (2007)The Application of Automated Segmentation Methods and Fragmentation Statistics to Characterise Rocky Reef Habitat, *Journal of Spatial Science*, **52** (1) 81 – 91
5. **Halley, V** and Bruce, E (2007) Thematic accuracy assessment of acoustic seabed data for shallow benthic habitat mapping. *International Journal of Environmental Studies*, **64**, 93-107
6. Jordan, A., Lawler, M., **Halley, V.** & Barrett, N. (2005) Seabed habitat mapping in the Kent Group of islands and its role in marine protected area planning. *Aquatic Conservation: Marine and Freshwater Ecosystems*, **15**, 51-70.
7. **Halley, V.**, Eriksson, M., & Nunez, M. (2003) Frost prevention and prediction of temperature variations and cooling rates using GIS. *Australian Geographical Studies*. **41**, 287-303.

BOOKS [B1]

Brothers, N., Pemberton, D., Pryor, H., **Halley, V** (2001) Tasmania's Offshore Islands: seabirds and other natural features. Tasmanian Museum and Art Gallery. Hobart, Tasmania.

BOOK CHAPTERS [C1]

Lucieer, V. Jordan. A (2007) Addressing spatial uncertainty through hierarchical classification in mapping southern Australian coastal seabed habitats. Chapter 5. Eds Todd, B. and Greene, G., GeoHab Geological Association of Canada. Pgs 157-171

CONFERENCE PUBLICATIONS [F1]

Lucieer, V (2007) Morphometric characterisation of rocky reef using multibeam acoustic bathymetric data. Geoscience and Remote Sensing Symposium, 2007. IGARSS 2007. IEEE International, Publication Date: 23-28 July 2007 On page(s): 905-909 Location: Barcelona, Spain, ISBN: 978-1-4244-1212-9 Digital Object Identifier: 10.1109/IGARSS.2007.4422944

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Boxshall, A. **Lucieer, V** (2006) Marine Mapping; New Findings and the Tasmanian and Victorian Experience. Coast to Coast 2006 Proceedings. Melbourne, May 2006. Published online in the Living Oceans forum at <http://www.vcc.vic.gov.au/coasttocoast2006.htm>

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Jordan, AR, Lawler, MM, **Lucieer, VL**, (2003) The application of seabed habitat mapping for multiple marine resource management in Tasmanian coastal waters', *Coastal GIS 2003 - an integrated approach to Australian coastal issues*, University of Wollongong, 157-175

CONFERENCE ABSTRACTS [F3]

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Lucieer, V.L and Lamarche, G (2009) Mapping seabed texture homogeneity using multibeam backscatter data: Can we use it as a surrogate for biodiversity assessment? GeoHab 4th – 7th May 2009, Trondheim, Norway.

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Lucieer, V., Pederson, H., Barrett, N., and Buxton, C (2008) Assessing the robustness of a morphometric classification model to help predict Australia's benthic marine habitat diversity. GeoHab 29th April-2nd May 2008: Deep-sea Marine Benthic Habitats and High-seas Marine Protected Areas. Harrigan Centennial Hall, Sitka, Alaska, USA.

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CONSULTANCY REPORTS [I2]

Lawler, M and **Lucieer, V** (2008) Current Flow Analysis in the Tamar Estuary, Final report to Van Dieman Aquaculture

Lucieer, V (2006) A Pilot Study on the Investigation of Uncertainty Analysis Applied to the GeoScience Australia SeaScapes Classification. For GeoScience Australia. Consultancy Number 1675. University of Tasmania, pp 33.

TECHNICAL AND FINAL REPORTS [I1]

Lucieer, V.L., Lawler, M.M., and Morffew, M.G and Pender, A.J(2009) SeaMap Tasmania: Mapping the Gaps, NRM North. 188 pp.

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MEDIA COMMUNICATION [O1-O5]

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Lucieer, V (2006) SeaMap Tasmania- an update. *Fishing Today*, 19 (6).

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OTHER RESEARCH OUTPUT

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