

Peer-Reviewed publications in the Last 2 Years

1. MacLean B., Blasco S., Bennett, R., Thomas Lakeman, T., Pienkowski A.J., Furze, M.F., Hughes Clarke, J.E. and Patton, E., 2017, Seafloor features delineate Late Wisconsinan ice stream configurations in eastern Parry Channel, Canadian Arctic Archipelago: **Quaternary Science Reviews**, under review.
2. Hughes Clarke, J.E. 2017, Multibeam Echosounders, Chapter 6, editors, Micallef, Krastel and Savini, **Submarine Geomorphology**, Springer Publishing, in press
3. Clare, M.A., Hughes Clarke, J.E., Talling, P.J., Cartigny, M.J.B. and Pratomo, D.G., 2016, Preconditioning and triggering of offshore slope failures and turbidity currents revealed by most detailed monitoring yet at a fjord-head delta: **Earth and Planetary Science Letters**, v. 450, p.208-220. <http://dx.doi.org/10.1016/j.epsl.2016.06.021>
4. Hughes Clarke, J. E. 2016, First wide-angle view of channelized turbidity currents links migrating cyclic steps to flow characteristics. **Nature Communication**, 7:11896 doi: 10.1038/ncomms11896.
5. Bennett, R. MacLean, B., Blasco, S. and Hughes-Clarke, J.E., 2016, Glacial lineations in Navy Board Inlet, Nunavut, Canada: **Geological Society of London Memoirs**, v.46, p. 49-50, doi:10.1144/M46.56.
6. Brothers, L. L., Legere, C., Hughes Clarke, J. E., Kelley, J. T, Barnhardt, W. A., Andrews, B. D. and Belknap, D. F., 2016, Pockmarks in Passamaquoddy Bay, New Brunswick, Canada: **Geological Society of London Memoirs**, v. 46, p. 111-112, doi:10.1144/M46.60.
7. Maclean, B., Blasco, S., Bennett, R., Hughes Clarke, J. E. & E. Patton, 2016, Crag and tail features, Amundsen Gulf, Canadian Arctic Archipelago **Geological Society of London Memoirs** v.46, p.53-54, doi:10.1144/M46.84
8. Maclean, B., Blasco, S., Bennett, R., Hughes Clarke, J.E. and Patton, E., 2016, Moat features, Amundsen Gulf, Canadian Arctic Archipelago. **Geological Society, London, Memoirs**, v. 46, p.51-52, doi:10.1144/M46.85
9. Maclean, B., Blasco, S., Bennett, R., Hughes Clarke, J.E. and Patton, E., 2016, Mega-scale glacial lineations, Peel Sound, Canadian Arctic Archipelago: **Geological Society of London Memoirs**, v. 46, p.47-48, doi:10.1144/M46.89.
10. Talling, P.J., Allin, J., Armitage, D.A., Arnott, R.W.C., Cartigny, M.J.B., Clare, M.A., Felletti, F., Covault, J.A., Girardclos, S., Hansen, E., Hill, P.R., Hiscott, R.N., Hogg, A.J., Hughes Clarke, J.E., Jobe, Z.R., Malgesini, G., Mozzato, A., Naruse, H., Parkinson, S., Peel, F.J., Piper, D.J.W., Pope, E., Postma, G., Rowley, P., Sguazzini, A., Stevenson, C.J., Sumner, E.J., Sylvester, Z., Watts, C. and Xu, J. (2015) Key future directions for research on turbidity currents and their deposits. *Journal of Sedimentary Research*, 85, (2), 153-169. (doi:10.2110/jsr.2015.03).
11. Hughes Clarke, J.E., Gaden, A., Long, Z., Pearce, T. and Perrie, W., 2015, Chapter 6, Safety in Travel and Navigation : in **From Science to Policy in the Western and Central Canadian Arctic: An Integrated Regional Impact Study (IRIS) of Climate Change and Modernization**, editors, G. Stern and A. Gaden, ArcticNet, Quebec City, 432pp. p.270-299.

Published Conference Proceedings

1. Hiroji, A. and Hughes Clarke, J.E., 2017, Radiometric Compensation Strategy for Multispectral Backscatter Data: **Proceedings of the US Hydrographic Conference, Galveston, TX, 2017**, 18pp.
2. Hughes Clarke, J.E., 2017, Coherent refraction “noise” in multibeam data due to oceanographic turbulence: **Proceedings of the US Hydrographic Conference, Galveston, TX, 2017** 18pp.
3. Hughes Clarke, J.E., Talling, P.J. and Cartigny, M., 2016, Flow by flow monitoring within fjord-delta turbidite systems: Insights into deep water channel-to-lobe transitions: **Proceedings of William C. Gussow Geoscience Conference, Canadian Society of Petroleum Geologists, Banff, 4pp.**
4. Hiroji, A. and Hughes Clarke, J.E., 2016, Multi-Sector Radiometric Beam Pattern Extraction Method for Improved Seafloor Classification: **Proceedings of the US Hydrographic Conference, Halifax, NS, 2016**, 18pp.
5. Clare, M.A., Cartigny, M.J.B., North, L.J., Tailing, P.J., Vardy, M.E., Hizzett, J.L., Sumner, E.J., Hughes Clarke, J.E., Spinewine, B., 2015, Quantification of near-bed dense layers and implications for seafloor structures: New insights into the most hazardous aspects of turbidity currents: **Offshore Technology Conference, Proceedings**, volume 1, issue , year 2015, pp. 720 – 735.
6. Hughes Clarke, J.E., Muggah, J., Renoud, W., Bell, T., Forbes, D.L, Cowan, B. and Kennedy, J., 2015: Reconnaissance seabed mapping around the Hall and Cumberland Peninsulas, Nunavut: Opening up the SE Baffin coastline to geological investigations; *in* Summary of Activities 2014, **Canada-Nunavut Geoscience Office**, p.133-144
7. Mate, D.J., Campbell, D.C, Barrie, V., Hughes Clarke, J., Muggah, J., Bell, T., Forbes, D.L. 2015: Integrated seabed mapping of Frobisher Bay, Nunavut, to support infrastructure development, exploration, and natural hazard assessment; *in* Summary of Activities 2014, **Canada-Nunavut Geoscience Office**, p.145-152.
8. Hughes Clarke, J.E., 2015, Multispectral Acoustic Backscatter from Multibeam, Improved Classification Potential: **Proceedings of the US Hydrographic Conference, National Harbor, MD, 2015**, 18pp.
9. Pereira, D.J. and Hughes Clarke, J.E., 2015, Improving shallow water multibeam target detection at low grazing angles: **Proceedings of the US Hydrographic Conference, National Harbor, MD, 2015**, 21pp.

Invited Keynote Presentations

- Hughes Clarke, J.E., 2016, Future Perspectives on multibeam backscatter and seabed classification: **Keynote Address, Hydro2016**, Rostock, Germany.
- Hughes Clarke, J.E., 2016, What Drives Deep Sea Channel Systems: **Weisenberg Lecturer**, University of Southern Mississippi.