

## Additional File 2: A list of benchmark studies

Abbreviated Citation	Full Citation
Baldwin et al. 2017	Cara Baldwin, Lori Bradford, Meghan K. Carr, Lorne E. Doig, Timothy D. Jardine, Paul D. Jones, Lalita Bharadwaj & Karl-Erich Lindenschmidt (2018) Ecological patterns of fish distribution in the Slave River Delta region, Northwest Territories, Canada, as relayed by traditional knowledge and Western science, <i>International Journal of Water Resources Development</i> , 34:2, 305-324, DOI: 10.1080/07900627.2017.1298516
Ban et al. 2017	Ban, N. C., Eckert, L., McGreer, M., & Frid, A. (2017). Indigenous knowledge as data for modern fishery management: a case study of Dungeness crab in Pacific Canada. <i>Ecosystem Health and Sustainability</i> , 3(8), 1379887.
Belisle et al 2018	Bélisle, A. C., Asselin, H., LeBlanc, P., & Gauthier, S. (2018). Local knowledge in ecological modeling. <i>Ecology and Society</i> , 23(2).
Berkes et al. 2007	Berkes, F., Berkes, M. K., & Fast, H. (2007). Collaborative integrated management in Canada's north: The role of local and traditional knowledge and community-based monitoring. <i>Coastal management</i> , 35(1), 143-162.
Breton-Honeyman, et al 2016;	Breton-Honeyman, K., Furgal, C. M., & Hammill, M. O. (2016). Systematic Review and Critique of the Contributions of Traditional Ecological Knowledge of Beluga Whales in the Marine Mammal Literature. <i>Arctic</i> , 37-46.
Brook & McLachlan 2008	Brook, R. K., & McLachlan, S. M. (2008). Trends and prospects for local knowledge in ecological and conservation research and monitoring. <i>Biodiversity and Conservation</i> , 17(14), 3501-3512.
Dale & Armitage 2011	Dale, A., & Armitage, D. (2011). Marine mammal co-management in Canada's Arctic: Knowledge co-production for learning and adaptive capacity. <i>Marine Policy</i> , 35(4), 440-449.
Gilchrist et al. 2005	Gilchrist, G., Mallory, M., & Merkel, F. (2005). Can local ecological knowledge contribute to wildlife management? Case studies of migratory birds. <i>Ecology and Society</i> , 10(1).
Giles et al. 2016	Giles, A., Fanning, L., Denny, S., & Paul, T. (2016). Improving the American eel fishery through the incorporation of indigenous knowledge into policy level decision making in Canada. <i>Human ecology</i> , 44(2), 167-183.
Heaslip 2008	Heaslip, R. (2008). Monitoring salmon aquaculture waste: The contribution of First Nations' rights, knowledge, and practices in British Columbia, Canada. <i>Marine Policy</i> , 32(6), 988-996.

Iverson et al. 2016	Iverson, S. A., Forbes, M. R., Simard, M., Soos, C., & Gilchrist, H. G. (2016). Avian Cholera emergence in Arctic-nesting northern common eiders: Using community-based, participatory surveillance to delineate disease outbreak patterns and predict transmission risk. <i>Ecology and Society</i> , 21(4).
Knopp et al. 2012	Knopp, J. A., Furgal, C. M., Reist, J. D., & Babaluk, J. A. (2012). Indigenous and Ecological Knowledge for Understanding Arctic Char Growth. <i>Fishing People of the North: Cultures, Economies, and Management Responding to Change</i> , 177.
Mackinson 2000	Mackinson, S. (2000). An adaptive fuzzy expert system for predicting structure, dynamics and distribution of herring shoals. <i>Ecological modelling</i> , 126(2-3), 155-178.
Mackinson 2001	Mackinson, S. (2001). Integrating local and scientific knowledge: an example in fisheries science. <i>Environmental Management</i> , 27(4), 533-545.
Mallory et al. 2006	Mallory, M. L., Fontaine, A. J., Akearok, J. A., & Johnston, V. H. (2006). Synergy of local ecological knowledge, community involvement and scientific study to develop marine wildlife areas in eastern Arctic Canada. <i>Polar Record</i> , 42(3), 205-216.
Mantyka-Pringle et al. 2017	Mantyka-Pringle, C. S., Jardine, T. D., Bradford, L., Bharadwaj, L., Kythreotis, A. P., Fresque-Baxter, J., ... & Lindenschmidt, K. E. (2017). Bridging science and traditional knowledge to assess cumulative impacts of stressors on ecosystem health. <i>Environment international</i> , 102, 125-137.
Martinez-Levasseur et al. 2016	Martinez-Levasseur, L. M., Furgal, C. M., Hammill, M. O., & Burness, G. (2016). Towards a better understanding of the effects of UV on Atlantic walruses, <i>Odobenus rosmarus rosmarus</i> : A study combining histological data with local ecological knowledge. <i>PloS one</i> , 11(4), e0152122.
Ostertag et al 2018	Ostertag, S. K., Loseto, L. L., Snow, K., Lam, J., Hynes, K., & Gillman, D. V. (2018). "That's how we know they're healthy": the inclusion of traditional ecological knowledge in beluga health monitoring in the Inuvialuit Settlement Region. <i>Arctic Science</i> , (0), 1-29.
Roux et al. 2018	Roux, M. J., Tallman, R. F., & Martin, Z. A. (2018). Small-scale fisheries in Canada's Arctic: Combining science and fishers knowledge towards sustainable management. <i>Marine Policy</i> .
Thornton & Maciejewski Scheer 2012	Thornton, T. F., & Scheer, A. M. (2012). Collaborative engagement of local and traditional knowledge and science in marine environments: a review. <i>Ecology and Society</i> , 17(3).