Enabling the coproduction of Inuit and Science knowledge through integrated information management

Summary

Project Leader

Nickels, Scot

There is a growing need for knowledge sharing and coproduction among Inuit and Northern researchers as the Arctic continues to experience rapid and unprecedented changes and there is a plethora of new information and data becoming available. Initiatives such as the International Polar Year and ArcticNet have allowed for an enormous increase in Arctic research resulting in the production of large amounts of new information and data that are important for Inuit. Led by Inuit Qaujisarvingat: Inuit Knowledge Centre (IQ), the research centre at Inuit Tapiriit Kanatami (ITK), the goal of this project is to develop and maintain an Inuit-specific integrated information management system (IIMS) that supports the ethical collection, discovery, preservation and use of Inuit knowledge and provide access to this information. This project would first identify Inuit needs for environmental, cultural, socio-economic, human health, and other data as well as requirements to develop new ways to manage, interact and share information. Members of the team will consult, develop options, and implement them to meet the needs of all stakeholders (including Northern researchers and Inuit). Feedback from partners, including the Inuit Qaujisarvingat National Committee (IQNC), along with ethical and technical considerations will drive decisions on selection of processes, informational needs, methodologies, and the design of tools. Recognizing that information resources are available from a wide range of sources and locations, and that establishing a 'central repository' may be neither desirable nor feasible because of the dispersed nature of Inuit communities and regional initiatives, we will focus on building a distributed model with interoperability at its core. IQ will initially focus on: (1) Procedural tools, (2) Database of funded Arctic research projects, and (3) Data sets including Bibliographic Databases, Inuit Health Data, Local Environmental Knowledge Data. These are areas identified as priorities by the IQNC, are in keeping with the interests of ArcticNet's mandate, address the priorities of Canada's Northern Strategy, and connect Inuit interests at the community, regional, national, and international level. Success measures for this project would be the development of an appropriate platform for the preservation, curation, and sharing of information about Inuit and the Arctic for Inuit, northern researchers, educators, policy- and decision- makers at the community, regional, national and international levels. The development of this IIMS will give Inuit and Northern researchers in Canada and abroad the appropriate levels of data and information required to prepare for the changes to their world. Further, Inuit and Northern researchers will be brought together through the co-production of new and clearly articulated knowledge and processes to access and share information as well as through the production and use of new online tools and communication networks that would grow throughout and beyond the duration of ArcticNet.

People

Network Investigators

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Collaborators & Research Associates

Pulsifer, Peter - University of Colorado

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Partners

Aboriginal Affairs and Northern Development Canada - Inuit Relations Directorate
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Publications

Articles Published in Refereed Publications

Pulsifer, P. L., Yarmey, L., Godøy, Ø., Friddell, J., Parsons, M., Vincent, W. ., ... Huck., J., 2014, Towards and International Polar Data Coordination Network, Data Science Journal, 94–102, Published

Pulsifer, P.L., Yarmey, L., Godøy, Ø., Friddell, J., Parsons, M., Vincent, W., DeBruin, T., Manley, W., Gaylord, A., Hayes, A., Nickels, S., Tweedie, C., Larsen, J.R., and Huck, J., 2013, Towards an International Polar Data Coordination Network, CODATA Science Journal, special issue on the Polar Data Forum, held October 15-16, 2013, , Accepted

Non-Refereed Contributions

Cheechoo, J., 2013, Web Information Map Tool on Canada's 13 Polar Bear Subpopulations, Topical Session Presentation, ArcticNet Annual Scientific Meeting, , Accepted

Furgal, C., Hik, D., Nickels, S., Meakin, S., Buckham, M., Kelley, K., Moss-Davies, P. and L. Braithwaite., 2013, ArcticNet's IRIS Process as a Science-Policy Mechanism: A case study of IRIS 4 in Nunavik and Nunatsiavut., Poster presentation, ArcticNet Annual Scientific Meeting, , Accepted

Grable, C., 2013, Research Request Process to Address Inuit-Specific Research Needs and Policy Development., Topical Session Presentation, ArcticNet Annual Scientific Meeting, , Accepted

Inuit Qaujisarvingat, 2014, The Development of Inuit-Specific Health Indicators: An overview, past challenges and lessons learned, as well as suggestions for developing indicators, Working discussion paper, Inuit Tapiriit Kanatami, , Accepted

Kelley, K., Nickels, S., and Grable, C., 2014, Nilliajut: Inuit Perspectives of Security, Patriotism and Sovereignty, Topical Session Presentation, Arctic Change 2014, , Accepted

Lougheed, M., 2013, Tukitaarvik: Mobilizing Knowledge and Experience to Support Inuit Students in Post-Secondary Education, Topical Session Presentation, ArcticNet Annual Scientific Meeting., , Accepted

Simon, M., 2013, Future Directions in Research in Inuit Education., Roundtable Session, ArcticNet Annual Scientific Meeting, , Accepted

Simon, M., 2013, Future Directions in Research in Inuit Education., Opening Planery, ArcticNet Annual Scientific Meeting., , Accepted

Specialized Publications

Flower, J., 2014, Inuit-Specific Data, Oral Presentation, All ITK Staff Meeting, , Accepted

Halbert, H. and Ryan, A., 2015, Sharing Inuit Knowledge: Lessons Learned from Developing a Digital Collection, Oral Presentation, ITK Food For Thought, , Accepted

Halbert, H. and Ryan, A., 2015, Introducing the Inuit ECE Collection, Oral Presentation, Inuit Early Childhood Development Working Group, , Accepted

Know History, 2013, Inuit Qaujisarvingat Library Needs and Assessment Report, A report to Inuit Tapiriit Kanatami. Ottawa., , Accepted

Pulsifer, P. L., Brauen, G., Furgal, C., Sheldon, T., Sherar, M., and Nickels, S., 2014, Sharing Nunatsiavimmiut Knowledge in Support of Regional Land Use Planning and Policy Development: knowledge modeling and visualization for mediating concepts and evaluating data, Topical Session Presentation, Arctic Change 2014, , Accepted