



WP 9: We aims to identify best practices for local communities, station managers and researchers to work together to identify drivers of environmental/ecosystem change that require adaptation and to develop a standardised process based on contrasting case studies that can be generally applied to local communities in the vicinity of research stations.





International Centre for Reindeer Husbandry





International Centre for Reindeer Husbandry









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Degteva and Nellemann Pastoralism: Research, Policy and Practice 2013, 3:15 http://www.pastoralismjournal.com/content/3/1/15

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Nenets migration in the landscape: impacts of industrial development in Yamal peninsula, Russia

Anna Degteva^{1,2,3} and Christian Nellemann^{4*}

Abstract

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State Steering and Traditiona Ecological Knowledge in Reindeer-Herding Governance

Cases from western Finnmark, Norway ar Yamal, Russia

Ellen Inga Turi



REINDEER HERDING, TRADITIONAL KNOWLEDGE AND ADAPTATION TO CLIMATE CHANGE AND LOSS OF GRAZING LAND



МІВНІСТЕРСТВО ОБРАЗОВАННЯ И НАУКИ РОССИЙСКОЙ ФИДЕРАЦІВИ ФЕДІРА, ВЫКОВ ГОСУДАРСТВЕННОЕ БІОДАЕТНОЕ ОБРАЗОВАТЕЛЬНОЕ УРЕЖЕДЯВЕВ ВЫКЦІЕТО ОБРАЗОВАНІЯ СКИЙ ГОСУДАРСТВЕННЫЙ ПЕДАГОТИЧЕСКИЙ УНИВЕРСИТЕТ им. А. И. ГЕІ

> ки/ Специальность подготовки «44.03.01 — Педаго образование» профессиональная) образовательная программа

Основная (профессиональная) образовательная программа «Образование в области родного языка и литературы» Выпускняя квалификационняя работа

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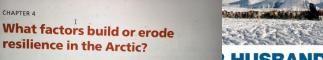
и. преф. воформ уральских плаков, фольковов и летива-

Using Traditional Knowledge in Unpredictable Critical Events in Reindeer Husbandry

– The case of Sámi reindeer husbandry in Western Finnmark, Norway and Nenets reindeer husbandry on Yamal Peninsula, Yamal Nenets AO, Russia



Rávdná Biret Márjá Eira Thesis submitted for the degree: Master of Philosophy in Indigenous Studies Faculty of Humanities, Social Sciences and Education,



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Key message



THE INTERNATIONAL CENTRE FOR REINDEER HUSBANDRY





EALLIN – Training of Future Arctic Leaders 2012-2015:

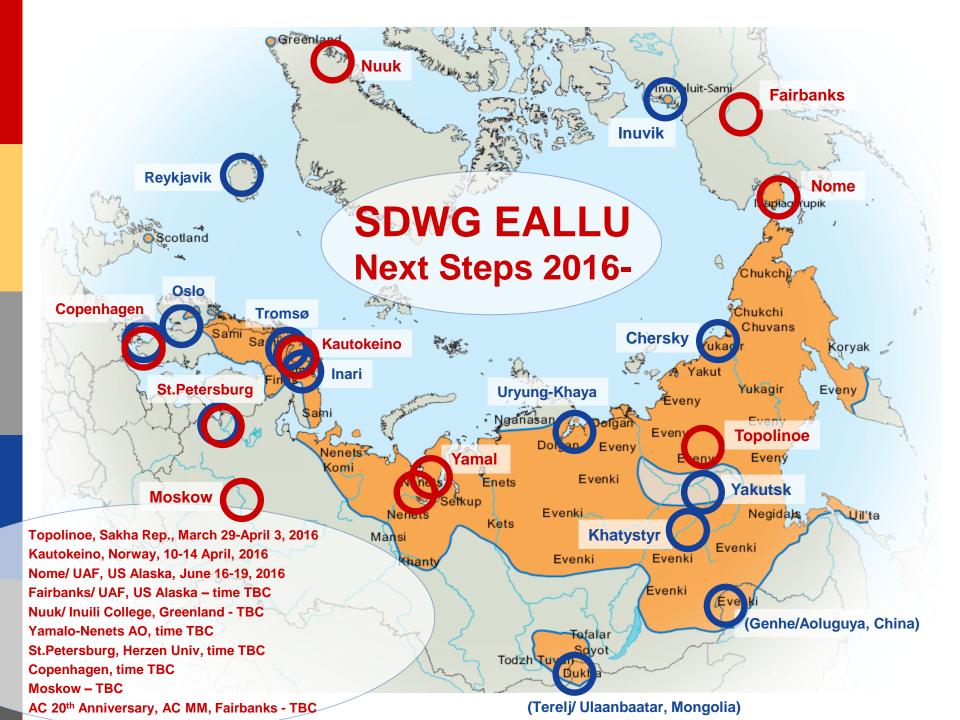
In all, over 160 reindeer herding youth from Norway, Sweden, Finland, Nenets, Yamal, Sakha, Mongolia, China etc. has participated.

ЕАЛЛИН 2012-2015:

Greenland

В проекте приняло участие более 160 представителей оленеводческой молодежи из Норвегии, Швеции, Финляндии, Ненецкого автономного округа., Ямало-Ненецкого автономного округа, Монголии и т.д.







REINDEER HERDING, TRADITIONAL KNOWLEDGE AND ADAPTATION TO CLIMATE CHANGE AND LOSS OF GRAZING LAND



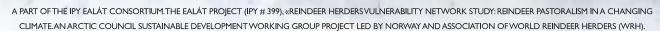






Accoциация «Оленеводы Мира» Association of World Reindeer Herders

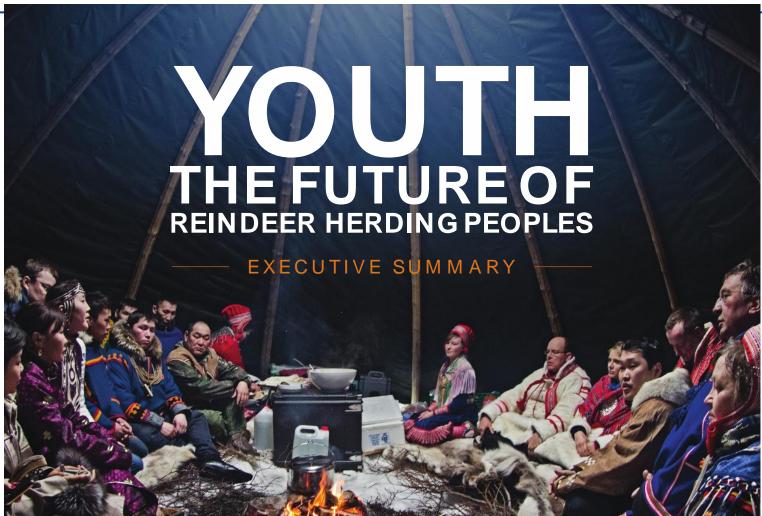














Nordic Council of Ministers



FOOD, KNOWLEDGE AND HOW WE HAVE THRIVED ON THE MARGINS







AN ARCTIC COUNCIL SUSTAINABLE DEVELOPMENT WORKING GROUP REPORT FROM THE EALLU PROJECT











Nomadic Herders:

Enhancing the Resilience of Reindeer Herders' ecosystems and livelihoods









Ассоциация «Оленеводы Мира» Association of World Reindeer Herders

Svein D. Mathiesen, professor, phd















The main aims of the workshop are:

- 1. To bring researchers, local administrators and local peoples together to exchange information on extreme weather events, general climate change and their impacts.
- 2. To learn from the dialogue a) best practices of working across sectors b) how to respond to local concerns through appropriate adaptation strategies and c) how such actions can enrich the knowledge of local people in areas outside northern Siberia d) how the knowledge of northern local people outside Siberia represented through INTERACT can enrich the knowledge base in Siberia.



Objectives

☐ The overall aim of this WP is to produce an inspirational guide book for research station managers and local communities to develop a deeper mutual understanding of how to work together to build integrated local observation systems enabling local communities to respond to the challenges of present and predicted environmental change. The guide book will include a general section on key steps in the process for developing a dialogue between local communities, researchers and station managers, identifying perceptions of what is driving the need for adaptation, what information is needed to adapt, and how to develop an integrated local monitoring strategy. This general section will be followed by thematic case studies from contrasting communities presented in a standardized format.















Tasks

- Task 9.1 Leading the design of standardized procedures to guide the case studies, to supervise the consultations and to compile the case studies into the guide book. (Leading partner: ICR)
- Task 9.2 Adapting to climate change and ensuring sustainable use of living resources. Location, Arctic Station, West Greenland. This case study would focus on marine and terrestrial resources. (Leading Partner: AU)
- Task 9.3 Adapting reindeer husbandry to vegetation change and snow cover changes. Location, Kevo Station. (Leading partner: ICR).
- Task 9.4 Forestry, hunting and fishing tourism, agriculture and potential new land uses in a warmer climate. Kaibosovo Station, Siberia. (Leading partner: TSU)

















Ottawa Traditional Knowledge Principles

Working Definition – Traditional Knowledge: 1

Traditional Knowledge is a systematic way of thinking and knowing that is elaborated and applied to phenomena across biological, physical, cultural and linguistic systems. Traditional Knowledge is owned by the holders of that knowledge, often collectively, and is uniquely expressed and transmitted through indig enous languages. It is a body of knowledge generated through cultural practices, lived experiences including extensive and multigenerational observations, lessons and skills. It has been developed and verified over millennia and is still developing in a living process, including knowledge acquired today and in the future, and it is passed on from generation to generation.

PREAMBLE

These fundamental principles on Traditional Knowledge will strengthen the Arctic Council and advance its objectives by supporting the active participation of Permanent Participants. Traditional Knowledge has been formally recognized by the Arctic Council as important to understanding the Arctic in numerous Ministerial Declarations, including the 1996 Ottawa Declaration on the establishment of the Arctic Council. The "...role of Arctic indigenous peoples and their Traditional Knowledge in the conservation and sustainable use of Arctic biological resources" was also emphasized in the Tromsø Declaration (2009). Fur thermore, in 2013 the Kiruna Declaration called for the Arctic Council to "recognize that the use of traditional and local knowledge is essential to a sustainable future in the Arctic, and decide to develop recommendations to integrate traditional and local knowledge in the work of Arctic Council." Permanent Participants represent Traditional Knowledge holders and are integral to the inclusion and use of Traditional Knowledge in the work of the Arctic Council. These fundamental principles represent the foundation for the long ter m vision and framework for incorporating Traditional Knowledge in Arctic Council activities.

The inclusion, promotion and use of Traditional Knowledge in the work of the Arctic Council is a collective expression of Arctic Council States in supporting the domestic and international rights, roles, and place of indigenous peoples in the circumpolar Arctic; and will address a collective need to produce information that are of use to Arctic indigenous peoples, decision makers and scientists of all cultures from a community level to international governments.













Ethical guidelines for handling traditional knowledge at the International Centre for Reindeer Husbandry

The International Centre for Reindeer Husbandry (ICR) has a special responsibility looking after the traditional knowledge (TK) of reindeer husbandry, and shall collect, analyse, store and share information of relevance to reindeer husbandry including both TK and scientific knowledge (SK)¹.

All researchers working in the North have an ethical responsibility toward the people of the North, their cultures, and the environment².

TK in this context is defined as "knowledge and practices acquired and rooted in the traditional way of living in the reindeer husbandry, accumulated and preserved through generations, in an always changing life environment". TK is multifaceted, and skills derived from thousands of years of careful observations, scrutiny and survival in a complex ecosystem readily lends itself to the in-depth studies of basic principles of both natural³ and social sciences.

Knowledge is considered "traditional" because of the way it is gained, within traditional cultures. It does not necessarily have to be old, but can arise and be continually updated and revised even today as a result of cultural or environmental changes⁴.

TK belongs to the people and the societies where it was created and is protected according to custom and international law. The TK of reindeer husbandry should consequently be managed according to the practice of the respective cultures.

The following represents ICRs own ethical standard for handling TK and the knowledge carriers of TK (indigenous peoples), and for how TK and SK should be integrated. These rules apply to all projects where new knowledge is to be produced and/ or compared, and where results are to be published in any form. This includes research projects and projects related to documentation of TK.

- 1. The value of TK:
 - 1.1. TK is of equal value as SK. The same applies for the different systems of producing, organising and transmitting knowledge in indigenous and scientific communities. TK is more than simply a source of empiry for researchers.
 - 1.2. In addition to the cultural value of TK, it also includes an instrumental value. That is to say that TK has essential practical value for the carriers of such knowledge in their day-to-day activities and subsistence, and shall be respected as such.
 - 1.3. TK has the same value as other professional knowledge, and qualified reindeer herders shall receive the same compensation for their efforts in projects etc. as senior scientific workers do. They properly the state-of-the-art knowledge in their field, and shall be respected as such.
- 2. Owner Billijdga kas př. Boazodo alloguovddáš
 - 2.1. We realize the explicit right of reindeer herders to both preserve their TK and determine how it





☐ Article 9 *Traditional and local knowledge*

- 1. The Parties shall encourage Participants to utilize, as appropriate, traditional and local knowledge in the planning and conduct of Scientific Activities under this Agreement.
- 2. The Parties shall encourage communication, as appropriate, between holders of traditional and local knowledge and Participants conducting Scientific Activities under this Agreement.
- □ 3. The Parties shall encourage holders of traditional and local knowledge, as appropriate, to participate in Scientific Activities under this Agreement.

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