CLIMATE CHANGE IN OYMYAKON: PERCEPTIONS, RESPONSES, AND HOW LOCAL KNOWLEDGE MAY INFORM POLICY

by

Vera Solovyeva A Dissertation Submitted to the Graduate Faculty

of

George Mason University in Partial Fulfillment of The Requirements for the Degree

of

Doctor of Philosophy Environmental Science and Public Policy

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DEDICATION

Dedicated to my family: my parents Aleksey Nikolaevich and Ekaterina Fedotovna Pavlovi, my dearest sister Anna Alekseevna, my loving husband Zhargal, and my three wonderful children Tim, Alex, and Katya.



ACKNOWLEDGEMENTS

My My sincere gratitude to the people who helped me during my field research in the Oymyakon ulus. They showed that the tradition of hospitality and sharing continues through the centuries among Sakha and Éven people. Natalya Nikiforovna Protopopova (Sakha heritage) -community moderator, my host in the village of Tomtor; she was the main contact with the Sakha people of four villages in the Oymyakon ulus, where the research was conducted. Sardana Nikolaevna Gromova (Éven heritage) was my host in the village of Yuchugey and a key facilitator with the Éven community in the Yuchugey village.

Special thanks to Sakha and Éven elders – experts of Indigenous knowledge in the Oymyakon ulus, who shared with me their extensive knowledge: Uliana Alekseevn Gromova (Yuchugey), Mikhail Nikolaevich Itegelev (Bereg Yurdya), Ekatherina Grigorievna Gromova (my host in the village of Sordognookh), Aleksandr Nikolaevich Gromov (Yuchugey), Evgeniy Petrovich Ivanov (Sordognookh), Dmitrii Nikolaevich Gromov (Tomtor), Ivan Pavlovich and Ekatherina Nikolaevna Danilov (Yuchugey). I extend my gratitude to the people who shared with me their stories and important information about the Oymyakon ulus' rich history and traditions: Rozalia Timofeevna Dyagileva (director of Tomtor museum), teacher Maria Polikarpovna Boyarova (Tomtor), Ammosova Eleonora Olegovna (Oymyakon), Nikifor Nikiforovich Protopopov (Tomtor), Vladimir Afanasyevich Zabolotskii (Yuchugev administration), Semen Sivtsev (Chiis Khaan, Khara Tumul), Uruydaana Semenovna Protopopova (Tomtor), Tamara Egorovna Vasilyeva (history activist and my host in the Oymyakon village), Natalya Zabolotckaya (Yuchugey) and Pavel Mikhaylovich Zabolotckiy (Yuchugey), and Varvara Timofeevna Ivanova (Sordognookh). This dissertation also includes a memory about Semen Semenovich Vinokurov (Tomtor), who was a very kind and knowledgeable man.

I am very grateful to all people in the Oymyakon ulus who made my research possible by collaborating and participating in interviews, focus groups, and surveys, sharing their warmth, stories, and food. I want to extend my sincere gratitude to Nikolay Efimov, who introduced me to the Oymyakon region and to Ph.D. Aleksandra Efimova who presented me with a very special book with the newest agricultural data in the Republic of Sakha (Yakutia) and about Oymyakon, which I used extensively in writing my dissertation. I am also very thankful to the climate change and social science community in the city of Yakutsk, whose support I felt through all these years: Ph.D. Viktoriya Filippova, Ph.D. Liliya Vinokurova, Ph.D. Sardana Boyakova, Ph.D. Yuriy Sleptsov.

I also extend my gratitude to the NSF and Anna Kertulla for supporting my research in the Republic of Sakha (Yakutia) under grant #1439468. It would not have been possible to carry out my study without this financial support.

I would like to express my gratitude to Dr. Susan Crate for taking me into the "Understanding Climate-Driven Phenological Change - Observations, Adaptations and Cultural Implications in Northeastern Siberia and Labrador/Nunatsiavut (PHENARC)," project. I also extend my gratitude to COS Melissa Hayes for encouraging me to take this challenge.

I am thankful to my PhD advisor, Dr. Susan Crate and extend my sincere gratitude to the rest of my committee members: Dr. Alonso Aguirre, Dr. Kyle Whyte, Dr. Todd LaPorte, and Dr. Mark Goodale for their support and guidance along the thesis process and their constructive feedback on this dissertation. I would also like to thank Marjorie Mandelstam Balzer and Harley Balzer for their friendship and support in my family's most difficult time. It gave me the strength to finish writing.

Most importantly, I would like to express my sincere gratitude to my dear husband Zhargal Solovyev and dearest children Tim, Alex, and Katya, my dear sister Anna, brother-in-law Vladimir Chemezov, and nephews Anatolii and Aleksei for their love and continuous support. I also really appreciate my relatives — Andreevi kinship for supporting and cherishing my mother and my sister's family, for keeping our relatives' connections strong. My family lives thousands of miles away, in a different country; however, even here, we feel that we are part of our extended family network. I also send my gratitude to Blagoje and Kathleen Siljegovic and all my dearest friends in the US and my homeland — Sakha Republic for supporting me during both good and bad days. I really appreciate your support and admire our friendship! I would also like to thank our little dog Dakota for providing me with her warmth and comfort while sitting on my lap during my writing process.

And last, but definitely not least, my special gratitude to my parents. My mother, Ekatherina Fedotovna Pavlova, constantly inspires me with her wisdom and strength, with her insatiable thirst for knowledge even now-in her 90s, for believing in me and encouraging all my endeavors. My father, Aleksey Nikolaevich Pavlov, an orphan, witnessed many events, was a veteran of World War II and lived his life with dignity and pride. He taught me to dream high and hold on to my Indigenous roots, be fair, peaceful, and love people.

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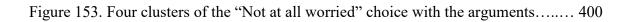
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LIST OF ABBREVIATIONS

Agro-Industrial Complex	ACI
Active Layer	ALT
Alaska-Siberia air route during WWII	ALSIB
Experimental Production Farm	EPF
Glavnoye Upravleniye Lagerey	GULAG
Indighir Mining Administration Dalstroy NKVD USSR	IGPU
Institute for Humanities Research and Indigenous Studies of the North	IHRSR(Ya)
Ministry of Emergency Situations	MES
Ministry of Natural Resources and Ecology (MNRE)	MNRE
Prescribed Burn.	РВ
Russian Association of Indigenous Peoples of North	RAIPON
Small Numbered Indigenous Peoples.	SNIP
Territory of Traditional Use.	TTU

ABSTRACT

CLIMATE CHANGE IN OYMYAKON: PERCEPTIONS, RESPONSES, AND HOW

LOCAL KNOWLEDGE MAY INFORM POLICY

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George Mason University, 2021

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Climate change is a serious threat to people's well-being, with adverse impacts on

their health, livelihoods, water supplies, and food security (Paris Agreement, 2015;

WWF, 2019; IPCC, 2018; 2019). The impacts of contemporary environmental changes

multiply the existing problems of local Indigenous communities, especially those who

still maintain a traditional lifestyle and depend on agricultural and livestock production,

(Lybbert et al., 2010; Rayogorodetsky, 2011; IPCC, 2014; ILO, 2017). These problems

force Indigenous communities to adapt to more challenging conditions and

disproportionately increases their vulnerability. Therefore, effective adaptation measures

to climate change for the Arctic [and other Indigenous communities around the world]

can be developed only by considering the many factors that Indigenous peoples face in

historical and contemporary contexts, including rapid social and cultural changes as well

as globalization (ACIA, Nuttall 2005; Norton-Smith et al., 2016; Crate 2014; 2017;

Huntington et al., 2019). This dissertation aims to advance this knowledge through

partnering with Indigenous communities, specifically the Sakha and Even, in the

Oymyakon county of Sakha Republic, Russia. The main research question is: How do

Sakha and Éven of Oymyakon perceive, understand and respond to effects of climate change, and how can their traditional knowledge inform and influence climate change policy?

The results of this research add to the existing knowledge of how Indigenous people of the Russian North adapt to the pressures created by climate change and what aspects of their traditional knowledge and culture they perceive as key to their adaptation and sustainable life. This research will generate multiple levels of outcomes: 1) On the community level, "best practices" are identified, which serves to bolster local adaptive responses and reify vernacular knowledge ways; 2) On the regional level, the findings can inform policymakers about the increased efficacy of a "bottom-up" approach, as compared to a "top-down", and thereby quicken the inclusion of Indigenous communities in climate change adaptation policy; and, 3) On the academic level, this research has implications for scientific relevance that can potentially shape policy implications for people worldwide.

Upon publication in a monograph, peer-reviewed publication or policy briefing, the outcomes of this research could inform Indigenous peoples around the world about Russia's northern Indigenous peoples' adaptation strategies, which could help draw parallels and assist in choosing better strategies in adaptation to their own changing conditions. Evidence-based results and recommendations of the study can be used as the basis in a call for transformative action, where Indigenous peoples, who are the holders of cultural values and Indigenous knowledge, should be able to participate in the decision-making processes in their regions. The results of the dissertation research address