



E e M.C



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Biology

Arctic cod

Arctic cod are the most abundant and widespread forage fish in the Arctic Ocean. An investigation of diets, environmental and biological influences on the distribution and population dynamics of Arctic cod yielded information to aid in the management of Arctic cod in a rapidly changing environment.



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Qik'rtam Litnauwistai (Island's Teachers) was a multitiered, community-based, participatory action research project to examine the institutional practices and teacher education program at the University of Alaska Anchorage's Kodiak College. This focus on recruiting and retaining pre-service teachers addressed the need to "grow our own" educators, especially Alutiiq educators, for Kodiak Island.

B e d a . D

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Fetal alcohol spectrum disorder is a lifelong disability caused by prenatal exposure to alcohol. Effects of FASD include physical, mental, behavioral and learning disabilities that impact quality of life. In-depth interviews were used to explore how FASD affects quality of life for both individuals and their families.

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In this project, the researcher worked with the Niniilchik Village Tribe of Niniilchik, Alaska, to explore how community members utilize self-determination to achieve individual, community, and tribal sustainability and well-being. This project used the method of ethnographic futures research to conduct scenarios about the future.

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The overall aim of this study was to understand what it means to be successful and competent mental health care providers in rural Alaska. A qualitative phenomenological-hermeneutic methodology was utilized to develop contextual themes that illuminate the phenomena of success and competence from the perspective of experienced providers in rural Alaska.





is dissertation is the result of sociocultural anthropological research in the village of Elim, Alaska, a small Indigenous community on the coast of Norton Sound. is research demonstrated that identity and cosmology are co-created, and that this co-constructed landscape is a picture of a heteroglossic eld with a dominant Christian discourse.



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is research investigated the dynamic mechanisms related to slow and fast earthquakes, and the spatial and temporal variations in slip behavior along the Aleutian megathrust, using modern geodetic data.



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is research developed advanced techniques for the correction of ionospheric distortions in spaceborne radar observations. In addition to developing robust algorithms, the dissertation demonstrates that the proposed technology can substantially improve glacier-velocity and permafrost-deformation measurements derived from spaceborne radar data.



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Arctic climate

D. A. ... 011



An investigation of sea-ice response to Arctic cyclones used various climate models to better understand the forces that drive sea ice-ocean-storm interaction in the context of Arctic climate change and explain how decreasing sea ice area and higher cyclone count can be a positive Arctic climate feedback.



Velocity

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Source mechanisms and uncertainties are estimated to understand the tectonics of Southcentral Alaska. Radiated seismic waves from earthquake sources are simulated within a three-dimensional velocity model of Alaska to investigate the effects of topography, subducting Pacific slab and major sedimentary basins.



Jacobsen

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Maximizing the information content of observations through analysis and synthesis is crucial for modern geoscience, particularly in the largely unobserved Arctic Ocean, where data is sparse

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