

Submarine Permafrost on the
Alaskan Continental Shelf
(Westview special studies in
earth sciences)

Vigdororchik, Michael E.

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Submarine Permafrost On The Alaskan Continental Shelf

M Carnoy



Submarine Permafrost On The Alaskan Continental Shelf:

Submarine Permafrost On The Alaskan Continental Shelf Michael E. Vigdorchik, 2019-09-05 This book is the second in a series on arctic and alpine environments produced by Dr Michael Vigdorchik at the Institute of Arctic and Alpine Research INSTAAR University of Colorado Boulder The first carried the title Arctic Pleistocene History and the Development of Submarine Permafrost The complicated Arctic Basin development during the Pleistocene has been described in that book including the paleoenvironmental problems posed by the isolation of the Arctic Basin during the Ice Ages This sequel concerns the identification and estimation of the potential hazards posed by the arctic environment to petroleum exploration and development on the Alaskan continental shelf *Outer Continental Shelf Environmental Assessment Program*, 1991 *Permafrost*, 1983 *Permafrost, a Bibliography, 1978-1982*, 1977 *Outer Continental Shelf Environmental Assessment Program Comprehensive Bibliography*, June 1990 *Outer Continental Shelf Environmental Assessment Program*, 1990 *CENFOR* United States. Bureau of the Census, 1971 *Comprehensive Bibliography*, 1990

Comprehensive Bibliography *Outer Continental Shelf Environmental Assessment Program*, 1988 **Outer Continental Shelf Environmental Assessment Program Comprehensive Bibliography, July 1986**, 1986 *Glacial Geology* N. Eyles, 2013-10-22 An introduction for courses that involve some knowledge of glacial geology and sediments of formerly glaciated terrains The early chapters describe depositional processes at modern glacier and ice sheet margins relating sediments and landforms in recurring landsystems Later chapters portray the distribution of these landsystems in Pleistocene glaciated terrains of the mid latitudes focussing on commonly encountered problems in various fields from stratigraphic and sedimentological investigations to construction problems relating to roads and dams The resulting text is a summation of a large body of literature previously accessible only to specialists A substantial reference list is complemented by cross references throughout **Selected Water Resources Abstracts**, 1980 **World Atlas of Submarine Gas Hydrates in Continental Margins** Jürgen Mienert, Christian Berndt, Anne M. Tréhu, Angelo Camerlenghi, Char-Shine Liu, 2022-01-01 This world atlas presents a comprehensive overview of the gas hydrate systems of our planet with contributions from esteemed international researchers from academia governmental institutions and hydrocarbon industries The book illustrates describes and discusses gas hydrate systems their geophysical evidence and their future prospects for climate change and continental margin geohazards from passive to active margins This includes passive volcanic to non volcanic margins including glaciated and non glaciated margins from high to low latitudes Shallow submarine gas hydrates allow a glimpse into the past from the Last Glacial Maximum LGM to modern environmental conditions to predict potential changes in future stability conditions while deep submarine gas hydrates remained more stable This demonstrates their potential for rapid reactions for some gas hydrate provinces to a warming world as well as helping to identify future prospects for environmental research Three dimensional and high resolution seismic imaging technologies provide new

insights into fluid flow systems in continental margins enabling the identification of gas and gas escape routes to the seabed within gas hydrate environments where seabed habitats may flourish The volume contains a method section detailing the seismic imaging and logging while drilling techniques used to characterize gas hydrates and related dynamic processes in the sub seabed This book is unique as it goes well beyond the geophysical monograph series of natural gas hydrates and textbooks on marine geophysics It also emphasizes the potential for gas hydrate research across a variety of disciplines Observations of bottom simulating reflectors BSRs in 2D and 3D seismic reflection data combined with velocity analysis electromagnetic investigations and gas hydrate stability zone GHSZ modelling provide the necessary insights for academic interests and hydrocarbon industries to understand the potential extent and volume of gas hydrates in a wide range of tectonic settings of continental margins Gas hydrates control the largest and most dynamic reservoir of global carbon Especially 4D 3D seismic but also 2D seismic data provide compelling sub seabed images of their dynamical behavior Sub seabed imaging techniques increase our understanding of the controlling mechanisms for the distribution and migration of gas before it enters the gas hydrate stability zone As methane hydrate stability depends mainly on pressure temperature gas composition and pore water chemistry gas hydrates are usually found in ocean margin settings where water depth is more than 300 m and gas migrates upward from deeper geological formations This highly dynamic environment may precondition the stability of continental slopes as evidenced by geohazards and gas expelled from the sea floor This book provides new insights into variations in the character and existence of gas hydrates and BSRs in various geological environments as well as their dynamics The potentially dynamic behavior of this natural carbon system in a warming world its current and future impacts on a variety of Earth environments can now be adequately evaluated by using the information provided in the world atlas This book is relevant for students researchers governmental agencies and oil and gas professionals Some familiarity with seismic data and some basic understanding of geology and tectonics are recommended

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