



Remote Sensing Of Ice And Snow

H. S. Santeford, James LeRoy Smith



Remote Sensing Of Ice And Snow:

Remote Sensing of Ice and Snow Dorothy Hall, 2012-12-06 Remote sensing using aircraft and satellites has helped to open up to intensified scientific scrutiny the cold and remote regions in which snow and ice are prevalent In this book the utility of remote sensing for identifying mapping and analyzing surface and subsurface properties of worldwide ice and snow features is described Emphasis is placed on the use of remote sensing for developing an improved understanding of the physical properties of ice and snow and understanding the interrelationships of cryospheric processes with atmospheric hydrospheric and oceanic processes Current and potential applications of remotely sensed data are also stressed At present all weather day and night observations of the polar regions can be obtained from sensors operating in different portions of the electromagnetic spectrum Because the approaches for analysis of remotely sensed data are not straightforward Chapter 1 serves to introduce the reader to some of the optical thermal and electrical properties of ice and snow as they pertain to remote sensing In Chapter 2 we briefly describe many of the sensors and platforms that are referred to in the rest of the book The remaining chapters deal with remote sensing of the seasonal snow cover lake and river ice permafrost glacier ice and sea ice

Remote Sensing of Snow and Ice W. Gareth Rees, 2005-08-12 Many advances in spaceborne instrumentation remote sensing and data analysis have occurred in recent years but until now there has been no book that reflects these advances while delivering a uniform treatment of the remote sensing of frozen regions Remote Sensing of Snow and Ice identifies unifying themes and ideas in these fields and presents them in a single volume This book provides a comprehensive introduction to the remote sensing of the Earth s cryosphere Explaining why cryospheric observations are important and why remote sensing observations are essential it offers thorough surveys of the physical properties of ice and snow and of current and emerging remote sensing techniques Presenting a technical review of how the properties of snow and ice relate to remote sensing observations the book focuses on principles by which useful geophysical information becomes encoded into the electromagnetic radiation detected during the remote sensing process The author then discusses in detail the application of remote sensing methods to snow freshwater ice glaciers and icebergs The book concludes with a summary that examines what remote sensing has revealed about the cryosphere where major technical problems still exist and how these problems can be addressed

Remote Sensing of Snow and Ice Mark F. Meier, 1979 Lists the methods in use for remote sensing of characteristics of snow and ice in seasonal snow cover glaciers and ice sheets ground ice lake and river ice and sea ice discusses methods for analysing such data

Prospects and concerns for satellite remote sensing of snow and ice National Research Board Ad Hoc Panel on Remote Sensing of Snow and Ice, National Research Council Ad Hoc Panel on Remote Sensing of Snow and Ice Committee on Glaciology Polar Research Board Commission on Physical Sciences, Mathematics, and Resources, 1989

Remote Sensing of Snow and Ice Albert Rango, 1979

Remote Sensing of Ice & Snow : a One-week Short Course University of Alberta. Faculty of Extension, 1985

Ice and Snow Algae Eric

Marechal,Linda Nedbalová,2022-04-05 **Remote Sensing of Sea Ice and Icebergs** Simon Haykin,Edward O. Lewis,R. Keith Raney,James R. Rossiter,1994-10-28 Describes the latest remote sensing technologies used to detect ice hazards in the marine environment map surface currents sea state and surface winds study ice dynamics over ice transportation oil spill countermeasures climate changes and ice reconnaissance Includes such technologies as acoustic sensing ice thickness measurement passive microwave remote sensing ground wave and surface based radars **Satellite and Ground Passive Microwave Remote Sensing Studies of Ice and Snow on and Near Lake Superior** Andrew Ness Pilant,1996

REMOTE SENSING OF SNOW AND ICE Moira Steyn-Ross,1984 *Remote Sensing of Snow and Ice Using Nimbus-7 SMMR Data Over Finland* M. T. Hallikainen,HELSINKI UNIV OF TECHNOLOGY ESPOO (Finland) RADIO LAB.,1982 Nimbus 7 SMMR data at 18 GHz and 37 GHz are applied to studies of snow covered sea ice and snow covered terrain in Finland First the dielectric properties of sea ice snow and frozen soils are reviewed Brightness temperatures are calculated using the radiative transfer model The theoretical results show that snow covered sea ice and snow covered terrain are practically identical systems The only major difference is the presence of vegetation in the case of terrain Using horizontally polarized satellite data in five test areas of mixed surface types in Finland slopes of the change of TB 18 GHz TB 37 GHz vs water equivalent of dry snow are derived for pure surface types of forests boglands farm lands and lakes A new algorithm to mapping the water equivalent of dry snow is suggested The theoretical model is used to interpret the satellite data on snow covered sea ice **Remote Sensing of Environmental Changes in Cold Regions** Jinyang Du,Jennifer D.Watts,Hui Lu,Lingmei Jiang,Paolo Tarolli,2019-11-14 This Special Issue gathers papers reporting recent advances in the remote sensing of cold regions It includes contributions presenting improvements in modeling microwave emissions from snow assessment of satellite based sea ice concentration products satellite monitoring of ice jam and glacier lake outburst floods satellite mapping of snow depth and soil freeze thaw states near nadir interferometric imaging of surface water bodies and remote sensing based assessment of high arctic lake environment and vegetation recovery from wildfire disturbances in Alaska A comprehensive review is presented to summarize the achievements challenges and opportunities of cold land remote sensing

Advanced Concepts and Techniques in the Study of Snow and Ice Resources H. S. Santeford,James LeRoy Smith,1974 Organized by the Work Group on Snow and Ice the Work Group on Remote Sensing and the Work Group on Nuclear Techniques of the U S National Committee for the International Hydrological Decade *Proceedings of the Symposium on Remote Sensing of Snow and Ice, Boulder, Colorado, May 1992* SYMPOSIUM ON REMOTE SENSING OF SNOW AND ICE.,1993 **Special Report - Corps of Engineers, U.S. Army, Cold Regions Research and Engineering Laboratory** Cold Regions Research and Engineering Laboratory (U.S.),1972 **USA CRREL Technical Publications** Cold Regions Research and Engineering Laboratory (U.S.),1972 **Prospects and Concerns for Satellite Remote Sensing of Snow and Ice** National Academy of Sciences. Polar Research Board,1989 **U.S. Geological Survey Bulletin** ,1983

Scientific and Technical Aerospace Reports ,1987 **Sea Ice** David N. Thomas, Gerhard S. Dieckmann, 2009-11-06

As the Arctic perennial sea ice continues to disappear at an alarming rate a full understanding of sea ice as a crucial global ecosystem and the effects of its loss is vital for all those working with and studying global climate change Building on the success of the previous edition the second edition of Sea Ice now much expanded and in full colour throughout includes six completely new chapters with complete revisions of all the chapters included from the first edition The Editors Professor David Thomas and Dr Gerhard Dieckmann have once again drawn together an extremely impressive group of internationally respected contributing authors ensuring a comprehensive worldwide coverage of this incredibly important topic Sea Ice second edition is an essential purchase for oceanographers and marine scientists environmental scientists biologists geochemists and geologists All those involved in the study of global climate change will find this book to contain a wealth of important information All libraries in universities and research establishments where these subjects are studied and taught will need multiple copies of this book on their shelves truly multidisciplinary approach world leading authors and editors international in scope covering both Arctic and Antarctic work of vital interest to all those involved in global warming and climate change research highly illustrated full colour book with colour images throughout

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