

On Sea Ice

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over the past 20 years the study of the frozen arctic and southern oceans and sub arctic seas has progressed at a remarkable pace this third edition of sea ice gives insight into the very latest understanding of the how sea ice is formed how we measure and model its extent the biology that lives within and associated with sea ice and the effect of climate change on its distribution how sea ice influences the oceanography of underlying waters and the influences that sea ice has on humans living in arctic regions are also discussed featuring twelve new chapters this edition follows two previous editions 2001 and 2010 and the need for this latest update exhibits just how rapidly the science of sea ice is developing the 27 chapters are written by a team of more than 50 of the worlds leading experts in their fields these combine to make the book the most comprehensive introduction to the physics chemistry biology and geology of sea ice that there is this third edition of sea ice will be a key resource for all policy makers researchers and students who work with the frozen oceans and seas

sea ice the latest edition of the gold standard in sea ice references in the newly revised second edition of sea ice physics and remote sensing a team of distinguished researchers delivers an in depth review of the features and structural properties of ice as well as the latest advances in geophysical sensors ice parameter retrieval techniques and remote sensing data the book has been updated to reflect the latest scientific developments in macro and micro scale sea ice research for this edition the authors have included high quality photographs of thin sections from cores of various ice types as well as a comprehensive account of all major field expeditions that have systematically surveyed sea ice and its properties readers will also find a thorough introduction to ice physics and physical processes including ice morphology and age based structural features practical discussions of radiometric and radar scattering observations from sea ice including radar backscatter and microwave

emission the latest techniques for the retrieval of sea ice parameters from space borne and airborne sensor data new chapters on sea ice thermal microwave emissions and on the impact of climate change on polar sea ice perfect for academic researchers working on sea ice the cryosphere and climatology sea ice physics and remote sensing will also benefit meteorologists marine operators and high latitude construction engineers

ice in the ocean examines sea ice and icebergs and their role in the global climate system it is comprehensive textbook suitable for students pure and applied researchers and anyone interested in the polar oceans the distribution of sea ice the mechanisms of growth development and decay the thermodynamics and dynamics of sea ice sea ice deformation and ridge building the role of marginal ice zones the characteristics of icebergs and the part played by sea ice in the climate system and in the transport of pollutants an extensive reference list and recommendations for further reading and numerous illustrations and add to the usefulness of the text

utterly extraordinary the starkest book i ve read on the impacts of accelerating climate change for a very long time if we re not listening to the likes of peter wadhams then we too are in denial jonathon porritt most of the scientific establishment predict that the north pole will be free of ice around the middle of this century as peter wadhams the world s leading expert on sea ice demonstrates in this book even this assessment of the future is optimistic wadhams has visited the polar regions more often than any other living scientist 50 times since he was on the first ship to circumnavigate the americas in 1970 and has a uniquely authoritative perspective on the changes they have undergone and where those changes will lead from his observations and the latest scientific research he describes how dramatically sea ice has diminished over the past three decades to the point at which by the time this book is published the arctic may be free of ice for the first time in 10 000 years wadhams shows how sea ice is the canary in the mine of planetary climate change he describes how it forms and the vital role it plays in reflecting solar heat back into space and providing an air conditioning system for the planet he shows how a series of rapid feedbacks in the arctic region are accelerating change there more rapidly than almost all scientists and political authorities have previously realised and the dangers of further acceleration are very real a farewell to ice is a report from the frontline of planetary change in the arctic and antarctic by a leading authority presenting incontrovertible scientific data but always in clear language which the layman can easily understand it is one of the most important books published in recent years about the existential challenge which human civilization now faces

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

new edition of the leading resource on the arctic and southern oceans with contributions from the world's experts on sea ice sea ice delivers insights into the very latest understanding of sea ice dynamics how we measure and model its extent the ecosystems that depend on sea ice and the effect of climate change on its distribution the book also discusses how sea ice influences the oceanography of underlying waters and the influence that sea ice has on the world's climate this newly revised and updated fourth edition looks at ice based food webs and the impact on global geopolitics as well as changes in human activity in the arctic written by a team of more than 80 of the world's leading experts from 13 countries sea ice includes information on sea ice thickness distribution and snow and surface processes on sea ice the short term and long term dynamics of arctic versus antarctic sea ice current methods of satellite remote sensing of sea ice the ecology of sea ice from microbes to mammals to marine birds the cycling of contaminants across the ocean sea ice atmosphere interface in its new edition sea ice remains the leading multidisciplinary resource on the subject for all policy makers researchers and students with an interest in the polar regions and their role in the world's oceanic systems

sea ice which covers up to 7 of the planet's surface is a major component of the world's oceans partly driving ocean circulation and global climate patterns it provides a habitat for a rich diversity of marine organisms and is an extremely valuable source of information in studies of global climate change and the evolution of present day life forms increasingly sea ice is being used as a proxy for extraterrestrial ice covered systems sea ice provides a comprehensive review of our current available knowledge of polar pack ice the study of which is severely constrained by the logistic difficulties of working in such harsh and remote regions of the earth the book's editors drs thomas and dieckmann have drawn together an impressive group of international contributing authors providing a well edited and integrated volume which will stand for many years as the standard work on the subject contents of the book include details of the growth microstructure and properties of sea ice large scale variations in thickness and characteristics its primary production micro and macrobiology sea ice as a habitat for birds and mammals sea ice biogeochemistry particulate flux and the distribution and significance of palaeo sea ice sea ice 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 on their shelves david thomas is at the school of ocean sciences university of wales bangor uk gerhard dieckmann is at the alfred Wegener Institute for polar and marine research Bremerhaven Germany

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the polar regions the oceans and climate the author examines the distribution of sea ice its mechanisms of growth development and decay the thermodynamics and dynamics of sea ice sea ice deformation and ridge building the role of marginal ice zones the characteristics of icebergs and the part played by sea ice in the climate system and in the transport of pollutants an extensive reference list recommendations for further reading and numerous illustrations add to the value of the text

this book provides in depth information about the sea ice in the arctic at scales from paleoenvironmental variability to more contemporary changes during the past and present centuries the book is based on several decades of research related to sea ice in the arctic and its variability sea ice process studies as well as implications of the sea ice variability on human activities the chapters provide an extensive overview of the research results related to sea ice in the arctic at paleo scales to more recent scales of variations as well as projections for changes during the 21st century the authors have pioneered the satellite remote sensing monitoring of sea ice and used other monitoring data in order to study monitor and model sea ice and its processes

the sea ice surrounding antarctica has increased in extent and concentration from the late 1970s when satellite based measurements began until 2015 although this increasing trend is modest it is surprising given the overall warming of the global climate and the region indeed climate models which incorporate our best understanding of the processes affecting the region generally simulate a decrease in sea ice moreover sea ice in the arctic has exhibited pronounced declines over the same period consistent with global climate model simulations for these reasons the behavior of antarctic sea ice has presented a conundrum for global climate change science the national academies of sciences engineering and medicine held a workshop in january 2016 to bring together scientists with different sets of expertise and perspectives to further explore potential mechanisms driving the evolution of recent antarctic sea ice variability and to discuss ways to advance understanding of antarctic sea ice and its relationship to the broader ocean climate system this publication summarizes the presentations and discussions from the workshop

covering more than seven percent of the earth's surface sea ice is crucial to the functioning of the biosphere and is a key component in our attempts to understand and combat climate change with on sea ice geophysicist w f weeks delivers a natural history of sea ice a fully comprehensive and up to date account of our knowledge of its creation change and function the volume begins with the earliest recorded observations of sea ice from 350 bc but the majority of its information is drawn from the period after 1950 when detailed study of sea ice became widespread weeks delves into both micro level characteristics internal structure component properties and phase relations and the macro level nature of sea ice such as salinity growth and decay he also explains the mechanics of ice pack drift and the recently observed changes in ice extent and thickness an unparalleled account of a natural phenomenon that will be of increasing importance as the earth's temperature rises on sea ice will unquestionably be the standard for years to come

published by the american geophysical union as part of the geophysical monograph series volume 180 this volume addresses the rapid decline of arctic sea ice placing recent sea ice decline in the context of past observations climate model simulations and projections and simple models of the climate sensitivity of sea ice highlights of the work presented here include an appraisal of the role played by wind forcing in driving the decline a reconstruction of arctic sea ice conditions prior to human observations based on proxy data from sediments a modeling approach for assessing the impact of sea ice decline on polar bears used as input to the u s fish and wildlife service's decision to list the polar bear as a threatened species under the endangered species act contrasting studies on the existence of a tipping point beyond which arctic sea ice decline will become or has already become irreversible including an examination of the role of the small ice cap instability in global warming simulations a significant summertime atmospheric response to sea ice reduction in an atmospheric general circulation model suggesting a positive feedback and the potential for short term

climate prediction the book will be of interest to researchers attempting to understand the recent behavior of arctic sea ice model projections of future sea ice loss and the consequences of sea ice loss for the natural and human systems of the arctic

a comprehensive overview of the science involved in automated prediction of sea ice for sea ice analysts researchers and professionals

as much as one tenth of the world's oceans are covered with sea ice or frozen ocean water at some point during the annual cycle sea ice thus plays an important often defining role in the natural environment and the global climate system this book is a global look at the changes in sea ice and the tools and techniques used to measure and record those changes the first comprehensive research done on sea ice field techniques this volume will be indispensable for the study of northern sea ice and a must have for scientists in the field of climate change research

the interannual variability of the sea ice in the southern ocean and its evolution projected for the end of the 21st century are investigated using observations and different types of models first of all none of the known atmospheric modes of variability

recent well documented reductions in the thickness and extent of arctic sea ice cover which can be linked to the warming climate are affecting the global climate system and are also affecting the global economic system as marine access to the arctic region and natural resource development increase satellite data show that during each of the past six summers sea ice cover has shrunk to its smallest in three decades the composition of the ice is also changing now containing a higher fraction of thin first year ice instead of thicker multi year ice understanding and projecting future sea ice conditions is important to a growing number of stakeholders including local populations natural resource industries fishing communities commercial shippers marine tourism operators national security organizations regulatory agencies and the scientific research community however gaps in understanding the interactions between arctic sea ice oceans and the atmosphere along with an increasing rate of change in the nature and quantity of sea ice is hampering accurate predictions although modeling has steadily improved projections by every major modeling group failed to predict the record breaking drop in summer sea ice extent in september 2012 establishing sustained communication between the user modeling and observation communities could help reveal gaps in understanding help balance the needs and expectations of different stakeholders and ensure that resources are allocated to address the most pressing sea ice data needs seasonal to decadal predictions of arctic sea ice challenges and strategies explores these topics

discover and explore worlds containing unexpected life as some scientists search for life on the frozen planet of mars others are discovering life in unexpected places here on earth frozen oceans follows the expeditions of polar scientists in the arctic and antarctic as they investigate the life found in and around the ice caps which cover up to 13 percent of the earth's surface every year during the harsh polar winter the surface of the ocean freezes forming a temporary ice layer called pack ice or sea ice the antarctic is the site of the greatest seasonal event on earth in march the air temperatures drop to as low as 40 f the ocean which turns to ice at 28.7 f starts freezing at the incredible average rate of 2.22 square miles per minute this is the first book to explain in non technical terms and show with color photography the abundance of life on in and under the ice topics include the nature of pack ice pack ice regions of the world life within a block of ice microbiology inside the ice mammals birds and ice scientists are continually being surprised by the abundance of life where no life was expected for many years ice was seen as an obstacle to exploration and a threat to life the ice is now perceived as central to global ocean circulation as well as global climate patterns frozen oceans is a must for anyone with an interest in the polar

regions marine biology and the earth s environment

based on the proceedings of the nato advanced study institute on air sea ice interaction held september 28 october 10 1981 in acquafredda di maratea italy intent is to present the topic of sea ice in the broad and interdisciplinary context of atmospheric and oceanographic science

this ebook is a collection of articles from a frontiers research topic frontiers research topics are very popular trademarks of the frontiers journals series they are collections of at least ten articles all centered on a particular subject with their unique mix of varied contributions from original research to review articles frontiers research topics unify the most influential researchers the latest key findings and historical advances in a hot research area find out more on how to host your own frontiers research topic or contribute to one as an author by contacting the frontiers editorial office frontiersin org about contact

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