

Cooling and Freezing

Atlantic Water

Arctic Ocean

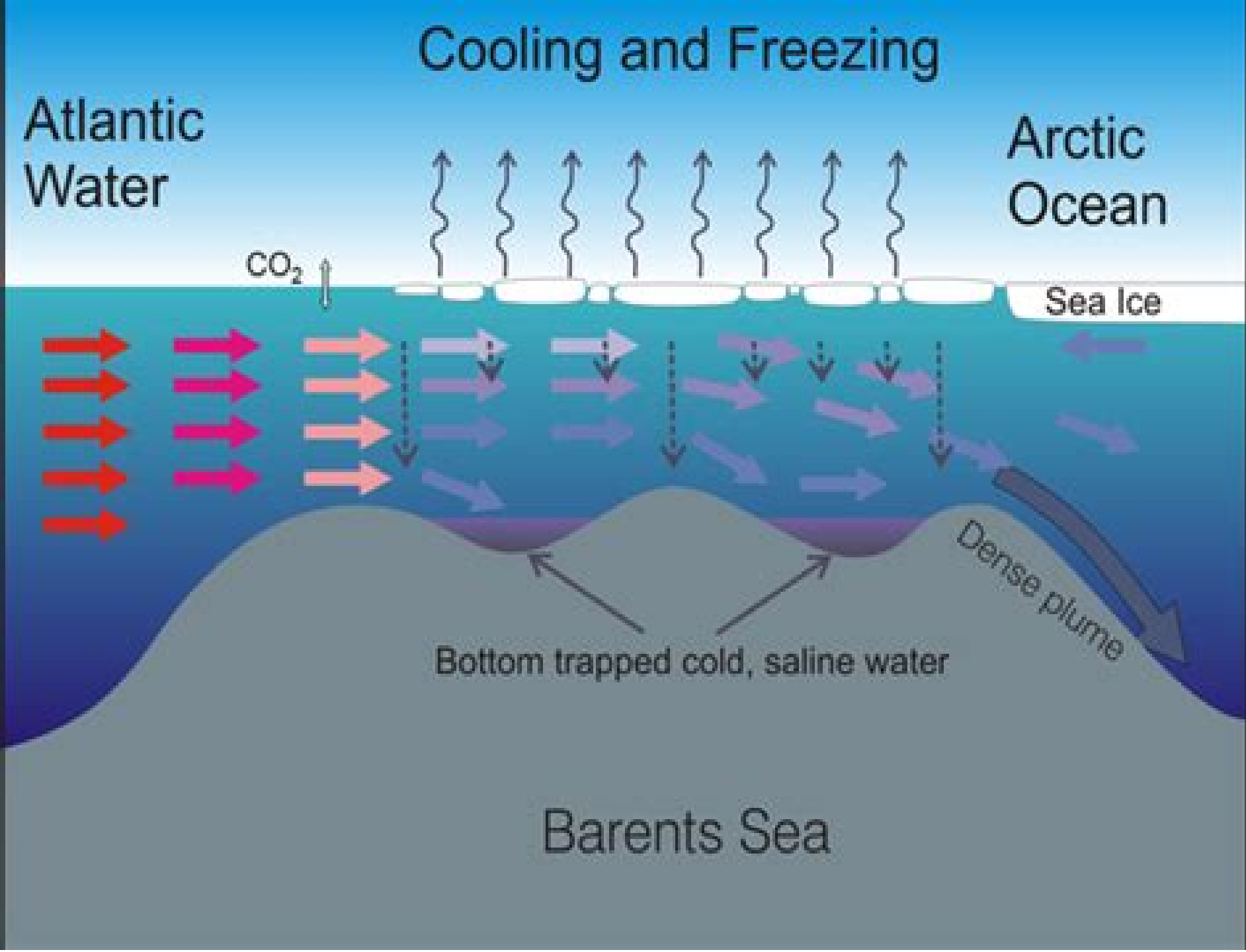
CO₂

Sea Ice

Bottom trapped cold, saline water

Dense plume

Barents Sea



Polar Oceanography Part A Physical Science

Frank D. Carsey



Polar Oceanography Part A Physical Science:

Elements of Physical Oceanography John H. Steele, Steve A. Thorpe, Karl K. Turekian, 2009-12-16 Elements of Physical Oceanography is a derivative of the Encyclopedia of Ocean Sciences 2nd Edition and serves as an important reference on current physical oceanography knowledge and expertise in one convenient and accessible source Its selection of articles all written by experts in their field focuses on ocean physics air sea transfers waves mixing ice and the processes of transfer of properties such as heat salinity momentum and dissolved gases within and into the ocean Elements of Physical Oceanography serves as an ideal reference for topical research References related articles in physical oceanography to facilitate further research Richly illustrated with figures and tables that aid in understanding key concepts Includes an introductory overview and then explores each topic in detail making it useful to experts and graduate level researchers Topical arrangement makes it the perfect desk reference

Polar Oceans from Space Josefino Comiso, 2010-03-24 Only a few centuries ago we knew very little about our planet Earth The Earth was considered flat by many although it was postulated by a few like Aristotle that it is spherical based on observations that included the study of lunar eclipses Much later Christopher Columbus successfully sailed to the West to discover the New World and Ferdinand Magellan's ship circumnavigated the globe to prove once and for all that the Earth is indeed a sphere Worldwide navigation and explorations that followed made it clear that the Earth is huge and rather impossible to study solely by foot or by water The advent of air travel made it a lot easier to do exploratory studies and enabled the mapping of the boundaries of continents and the oceans But aircraft coverage was limited and it was not until the satellite era that full coverage of the Earth's surface became available Many of the early satellites were research satellites and that meant in part the development of engineering measurement systems with no definite applications in mind The Nimbus 5 Electrically Scanning Microwave Radiometer ESMR was a classic case in point The sensor was built with the idea that it may be useful for meteorological research and especially rainfall studies over the oceans but success in this area of study was very limited

OCEANOGRAPHY- Volume I Chen-Tung Arthur Chen, Jacques C. J. Nihoul, 2009-04-16 Oceanography is a component of Encyclopedia of Earth and Atmospheric Sciences in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias These volumes deal with the oceans as an integrated dynamic system characterized by a delicate complex system of interactions among the biota the ocean boundaries with the solid earth and the atmosphere This set of volumes is designed to be a very authoritative reference for state of the art knowledge on the various aspects such as Physical Oceanography Chemistry of the oceans Biological Oceanography Geological oceanography Coral Reefs as a Life Supporting System Human Uses of the Oceans Ocean Engineering and Modeling the Ocean System from a Sustainable Development perspective These volumes are aimed at the following five major target audiences University and College students Educators Professional practitioners Research personnel and Policy analysts managers and decision makers and NGOs

Introduction to Geophysical Fluid

Dynamics Benoit Cushman-Roisin, Jean-Marie Beckers, 2011-08-26 Introduction to Geophysical Fluid Dynamics provides an introductory level exploration of geophysical fluid dynamics GFD the principles governing air and water flows on large terrestrial scales Physical principles are illustrated with the aid of the simplest existing models and the computer methods are shown in juxtaposition with the equations to which they apply It explores contemporary topics of climate dynamics and equatorial dynamics including the Greenhouse Effect global warming and the El Nino Southern Oscillation Combines both physical and numerical aspects of geophysical fluid dynamics into a single affordable volume Explores contemporary topics such as the Greenhouse Effect global warming and the El Nino Southern Oscillation Biographical and historical notes at the ends of chapters trace the intellectual development of the field Recipient of the 2010 Wernaers Prize awarded each year by the National Fund for Scientific Research of Belgium FNR FNRS Ocean Currents John H. Steele, Steve A. Thorpe, Karl K. Turekian, 2010-10-08 This title is an important reference on current knowledge and expertise in one convenient and accessible source The selected articles all written by experts in their field fall into several categories Antarctic Fish Biology Joseph T. Eastman, 2013-10-22 This important volume provides an original synthesis and novel overview of Antarctic fish biology detailing the evolution of these fish in some of the most unusual and extreme environments in the world Focusing on one group of fish the notothenioids which contain the majority of the current organismal diversity this book describes a fauna that has evolved in isolation and experienced incredible adaptive radiation by acquiring numerous physiological specializations Darwin's finches and African cichlids may be joined by Antarctic fishes as exemplars of adaptive radiation The book's coverage is detailed and comprehensive and the author clearly recognizes the fact that these fish are a component of a most interesting and biologically unique ecosystem and environment Topics in Antarctic Fish Biology include past and present environments fossil records taxonomic composition of fauna systematic relationships diversification and physiological adaptations *Numerical Models of Oceans and Oceanic Processes* Lakshmi H. Kantha, Carol Anne Clayson, 2000-08-08 Oceans play a pivotal role in our weather and climate Ocean borne commerce is vital to our increasingly close knit global community Yet we do not fully understand the intricate details of how they function how they interact with the atmosphere and what the limits are to their biological productivity and their tolerance to wastes While satellites are helping us to fill in the gaps numerical ocean models are playing an important role in increasing our ability to comprehend oceanic processes monitor the current state of the oceans and to a limited extent even predict their future state Numerical Models of Oceans and Oceanic Processes is a survey of the current state of knowledge in this field It brings together a discussion of salient oceanic dynamics and processes numerical solution methods and ocean models to provide a comprehensive treatment of the topic Starting with elementary concepts in ocean dynamics it deals with equatorial mid latitude high latitude and coastal dynamics from the perspective of a modeler A comprehensive and up to date chapter on tides is also included This is followed by a discussion of different kinds of numerical ocean models and the pre and post processing requirements and techniques

Air sea and ice ocean coupled models are described as well as data assimilation and nowcast forecasts Comprehensive appendices on wavelet transforms and empirical orthogonal functions are also included This comprehensive and up to date survey of the field should be of interest to oceanographers atmospheric scientists and climatologists While some prior knowledge of oceans and numerical modeling is helpful the book includes an overview of enough elementary material so that along with its companion volume Small Scale Processes in Geophysical Flows it should be useful to both students new to the field and practicing professionals Comprehensive and up to date review Useful for a two semester or one semester on selected topics graduate level course Valuable reference on the topic Essential for a better understanding of weather and climate

Energy and Water Cycles in the Climate System Ehrhard Raschke, Daniela Jacob, 2013-06-29 Water is the most effective agent in the climate system to modulate energy transfer by radiative processes through its exchanges of latent heat and within cascades of chemical processes It is the source of all life on earth and once convective clouds are formed it enables large vertical transports of momentum heat and various atmospheric constituents up to levels above the tropical tropopause Water triggers very complex processes at the earth's continental surfaces and within the oceans At last water in its gaseous phase is the most important greenhouse gas Numerical modelling and measurements of the state of the present climate system needs a very thorough understanding of all these processes and their various interactions and forcings This is a prerequisite for more substantial forecasts of future states in all scales of time from days to centuries Therefore the management of the World Climate Research Programme established in 1988 the new programme GEWEX Global Energy and Water Cycle Experiment GEWEX is specifically defined to determine the energy and water transports in the fast components of the climate system with the presently available modelling and measurement means and to provide new capabilities for the future Research in GEWEX must further develop methods to determine the influence of climatic anomalies on available water resources

Microwave Remote Sensing of Sea Ice Frank D. Carsey, 1992-04-08 Published by the American Geophysical Union as part of the Geophysical Monograph Series Volume 68 Human activities in the polar regions have undergone incredible changes in this century Among these changes is the revolution that satellites have brought about in obtaining information concerning polar geophysical processes Satellites have flown for about three decades and the polar regions have been the subject of their routine surveillance for more than half that time Our observations of polar regions have evolved from happenstance ship sightings and isolated harbor icing records to routine global records obtained by those satellites Thanks to such abundant data we now know a great deal about the ice covered seas which constitute about 10% of the Earth's surface This explosion of information about sea ice has fascinated scientists for some 20 years We are now at a point of transition in sea ice studies we are concerned less about ice itself and more about its role in the climate system This change in emphasis has been the prime stimulus for this book

Maritime Claims in the Arctic Erik Franckx, 2023-12-28 With the fundamental changes which occurred in the political structure of Europe and improved East West relations in general the

Arctic has increasingly become the focal point of international attention during the last few years. Scientific research and environmental protection are areas which have already witnessed some form of international cooperation in the area. With this particular evolution in mind, a new look at the legal regime of navigation in the Arctic seems to be justified. While several other countries border on the Arctic, Canada and Russia have the most extensive shorelines and have shown keen interest in ensuring that their proper share of this area is not encroached by other countries. This book is thus generally restricted to an examination of the maritime boundaries that these states are claiming and the extent to which other states have recognized them. It also explores the need for greater international cooperation in this area, not only between the two main contenders but also with other countries that have shown a special interest in Arctic navigation and in the exploitation of resources of this area.

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Polar Oceanography Part A Physical Science Introduction

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