

1. Record Nr.	UNINA9910961976303321
Titolo	Field techniques for sea ice research // edited by Hajo Eicken ... [et al.]
Pubbl/distr/stampa	Fairbanks, : University of Alaska Press, c2009
ISBN	9781602231078 1602231079
Edizione	[1st ed.]
Descrizione fisica	1 online resource (590 p.)
Altri autori (Persone)	EickenHajo
Disciplina	551.34/3
Soggetti	Oceanography - Fieldwork Sea ice Sea ice - Measurement
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Preface; Foreword; Chapter 1: Introduction; Chapter 2: The Sea Ice System Services Framework; Chapter 3.1: Field Techniques for Snow Observations on Sea Ice; Chapter 3.2: Ice Thickness and Roughness Measurements; Chapter 3.3: Ice Sampling and Basic Sea Ice Core Analysis; Chapter 3.4: Thermal, Electrical, and Hydraulic Properties of Sea Ice; Chapter 3.5: Ice Strength: In Situ Measurement; Chapter 3.6: Sea Ice Optics Measurements; Chapter 3.7: Measurements and Modeling of Ice-Ocean Interaction; Chapter 3.8: Biogeochemical Properties of Sea Ice. Chapter 3.9: Assessment of the Abundance and Diversity of Sea Ice Biota Chapter 3.10: Studying Seals in Their Sea Ice Habitat; Chapter 3.11: Community-Based Observation Programs and Indigenous and Local Sea Ice Knowledge; Chapter 3.12: Ship-Based Ice Observation Programs; Chapter 3.13: Automatic Measurement Stations; Chapter 3.14: Data Management Best Practices for Sea Ice Observations; Chapter 3.15: Principal Uses of Remote Sensing in Sea Ice Field Research; Chapter 3.16: The Use of Models in the Design and Interpretation of Field Measurements. Chapter 3.17: Integrated Sea Ice Observation Programs Chapter 3.18: Personal Field Logistics; Chapter 4: Concluding Remarks: Integration of Sea Ice Field Research into Polar System Science; About the Multimedia

Sommario/riassunto

"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."--Jacket.