

Jürgen Mienert · Philip Weaver  
Editors

# European Margin Sediment Dynamics

Side-Scan  
Sonar  
and Seismic  
Images



Springer

# European Margin Sediment Dynamics Sidescan Snar And Seismic Images

**A. Solheim, P. Bryn, K. Berg, H.P.  
Sejrup, J. Mienert**



## **European Margin Sediment Dynamics Sidescan Snar And Seismic Images:**

**European Margin Sediment Dynamics** Jürgen Mienert, Phillip Weaver, 2002-12-16 Of Geophysical Techniques The Norwegian Margin GLORIA Lang Range Sidescan Sonar Mosaic of the North Norwegian Margin 67 75 N Large Scale Slides on the North Norwegian Margin Imaged by GLORIA The Northern Storegga Slide Escarpment Morphology and Features A Weak Layer Feature on the Northern Storegga Slide Escarpment Morphology of a Non glacigenic Debris Flow Lobe in the Helland Hansen Area Investigated with 3D Seismic Data The Tr nadjuet Slide Sediment Disintegration and Flow Morphology and Acoustic Character of the Middle and Lower North Sea Fan Debris Flow Activity on the Bear Island and Trough Mouth Fan from GLORIA and 3 5 kHz Records Submarine Glacigenic Debris Flows on the Bear Island Trough Mouth Fan Western Barents Sea Aspects of Flow Behaviour Morphology of Glacigenic Debris Flows on the Upper North Sea Fan Canyon and Channel Systems in the Lofoten Basin Norwegian Margin Morphology of the Lofoten Basin Channel The Lofoten Contourite Drift High Resolution Seismic Stratigraphy Gas Hydrates at Storegga Slide Seabed and Subsurface Features on the Southern V ring Plateau and Northern Storegga Slide Escarpment The H kon Mosby Mud Volcano The Faeroe Shetland Margin Leng Range Side Scan Sonar Imagery of the North Faeroes Margin A Major Channel System on the North Faeroes Margin from Side Scan Sonar Records A Record of Mid Cenozoic Strong Deep Water Erosion on the Faeroe Shetland Channel Morphology of an Ice Sheet Limit and Constructional Glacially Fed Slope Front Faeroe Shetland Channel Sandy Contourites and Pathways of the Norwegian Sea Overflow Water West of the Faeroe Bank Channel The Rockall Porcupine Margin Images of Sliding and Slumping Along the Porcupine and SW Rockall Trough Margins Holocene Shelf Margin Submarine Landslides Donegal Fan Eastern Rockall Trough Canyon Heads and Channel Architecture of the Gollum Channel Porcupine Seabight The Continental Rise West of Porcupine Seabight Northeast Atlantic Growth and Partial Destruction of a Neogene Sediment Drift Western Rockall Trough Development of a Sediment Drift Feni Drift NE Atlantic Margin Giant Carbonate Mounds and Current Swept Seafloors on the Slopes of the Southern Rockall Trough Giant Carbonate Mounds Along the Porcupine and SW Rockall Trough Margins Mounds and Sediment Drift in the Porcupine Basin West of Ireland The Celtic and Armorican Margins a New View Morphology and Seismic Stratigraphy of the Manche Paleoriver System Western Approaches The Celtic Deep Sea Fan Seismic Facies Architecture and Stratigraphy Morphology and Depositional Processes of the Celtic Fan Bay of Biscay Physiography of the Armorican Turbidite System Bay of Biscay The Iberian and Canaries Margin including NW Africa Sediment Dynamic Features on the Eastern Gulf of Cadiz SW Spain Reassessment of Sedimentary Evidence for Deep Contour Currents West of Iberia Debris Avalanche Deposits on the Flanks of the Canary Islands Contrasts Between El Hierro and Tenerife Flow Processes in the Saharan Debris Plow Turbidity Current Processes and Deposits in the Moroccan Turbidite System Oligocene to Recent Processes on the Agadir Continental Margin and Basin Central Eastern Atlantic Canyon Switching in the Moroccan Turbidite System Northwest African Margin Large Scale Slides on the Flanks of the Canary

Islands Giant Landslides off the Islands of La Palma El Hierro Shaping of an Oceanic Island by Mass Wasting *European Margin Sediment Dynamics* Jürgen Mienert, Phillip Weaver, 2012-12-06 This book provides acoustic images about sedimentary systems of the shelf edge slope and deep sea floor Data obtained by the European North Atlantic Margin and the STEAM Project shows areas of potential instability and deepwater sediment transport systems on the continental slope The knowledge gained can be used by both academia and hydrocarbon industry so as to arrive at a better understanding of continental margins and the processes shaping them It will also interest colleagues in earth sciences involved in margin surveys for environmental studies The current global trend in marine resource development is to move into deeper water and this book can provide examples relevant to other passive margins around the world There is a growing need for reliable measurements in deep water and knowledge related to stabilisation Slope stability problems will be identified with greater reliability thus improving safety standards for coastal and offshore environmental policies Sound Images of the Ocean

Peter Wille, 2005-06-14 Sound Images of the Ocean is the first comprehensive overview of acoustic imaging applications in the various fields of marine research utilization surveillance and protection The book employs 400 sound images of the sea floor and of processes in the sea volume contributed by more than 120 marine experts from 22 nations European Margin Sediment Dynamics Jürgen Mienert, Phillip Weaver, 2011-09-26

*The Handbook of Sidescan Sonar* Philippe Blondel, 2010-05-17 Sidescan sonar is proving to be the preeminent technique for researchers and professionals seeking knowledge about the structure and behavior of the seafloor but its data is often difficult to interpret due to the physics of acoustic remote sensing and to the varied geological processes at play This book covers the fundamentals of sidescan sonar incorporates new understanding of marine structures and explains how to interpret sidescan sonar imagery and bathymetry

*Ormen Lange - an integrated study for safe field development in the Storegga submarine area* A. Solheim, P. Bryn, K. Berg, H.P. Sejrup, J. Mienert, 2012-12-02 Great effort has been undertaken to investigate potential geohazards in relation to the development of the Ormen Lange gas field offshore Mid Norway The field is located in the scar left after the giant tsunami generating Storegga Slide which occurred roughly 8200 years ago and the slide risk has consequently received particular focus The studies have been multi disciplinary in character and have involved a number of companies universities and research institutions The results of the project led to a significant advance in the understanding of the Storegga Slide in particular and submarine slope instability in general and played an important role in the approval of field development by Norwegian authorities This book comprises 26 individual contributions representing the wide span of topics addressed in the project The main scope is to provide a state of the art report on geohazard investigations in a high latitude continental margin setting Most of the data and results published in this book would not have reached beyond the confidential report stage unless the license partners of the Ormen Lange license had agreed that this information deserves a wider audience Multidisciplinary and covers most themes treated in slope stability studies prior to the field development phase Provides a

link between basic research and applied geohazard studies with direct relevance for risk evaluation in relation to field development activities such as pipeline design drilling of wells structure foundation etc A state of the art report on geohazard investigations in a high latitude continental margin setting in relation to field development activities     **Cold-Water Corals and Ecosystems**

André Freiwald,J. Murray Roberts,2006-01-17 Following the exciting exploration of hot vent and cold seep ecosystems the rediscovery of cold water coral ecosystems with high technology instrumentation is currently another hot topic in multidisciplinary marine research Conventionally coral reefs are regarded as restricted to warm and well illuminated tropical seas not associated with cold and dark waters of higher latitudes However ongoing scientific missions have shed light on the global significance of this overlooked ecosystem Cold water coral ecosystems are involved in the formation of large seabed structures such as reefs and giant carbonate mounds and they represent unexploited paleo environmental archives of earth history Like their tropical cousins cold water coral ecosystems harbour rich species diversity Despite the great water depths commercial interests overlap more and more with the coral occurrences Human activities already impinge directly on cold water coral reefs causing severe damage to this vulnerable ecosystem In this volume the current key institutions involved in cold water coral research have contributed 62 state of the art articles from geology and oceanography to biology and conservation     Contourites

M. Rebesco,A. Camerlenghi,2008-11-25 Contourites are sediments deposited or substantially reworked by bottom currents The study of contourites is crucial for several fields of fundamental and applied research paleoclimatology and paleo oceanography since these fairly continuous and relatively high resolution sediments hold the key for priceless information on the variability in circulation pattern current velocity oceanographic history and basin interconnectivity hydrocarbon exploration since accumulation of source rocks may be favored by weak bottom currents whereas clean deep sea sands may be formed by robust flows and slope stability since low permeability fine grained contourites facilitate the formation of overpressurized gliding planes when fresh contourites with a high pore water content becomes rapidly loaded or when their rigid biosiliceous microfabric collapses due to diagenetic conditions Despite its significance this group of sediments is poorly known by the majority of non specialists Notwithstanding the growing interest and the intensified research in contourites a textbook that might also serve as a reference book on contourites was missing until now This book addresses all aspects of the knowledge in the field of contourites and provides an authoritative and comprehensive coverage of the subject It also can serve as a standard reference work for non specialists and in particular postgraduate students university teachers and lecturers researchers and professionals who are seeking an authoritative source of information about contourites Reviews both theoretical topics and case histories Provides practical advice on multidisciplinary research techniques Provides also nonspecialist users with an intuitively accessible cross referenced and comprehensive coverage of the knowledge in the field Provides a helpful tool for research in the preparation of classroom lectures     **Deep-Sea Sediments** H. Huneke,T. Mulder,2011-02-08 Deep Sea Sediments focuses on the sedimentary

processes operating within the various modern and ancient deep sea environments The chapters track the way of sedimentary particles from continental erosion or production in the marine realm to transport into the deep sea to final deposition on the sea floor

**Geomorphological Mapping** Mike J. Smith, James S. Griffiths, 2011-10-22 Geomorphological Mapping a professional handbook of techniques and applications is a new book targeted at academics and practitioners who use or wish to utilise geomorphological mapping within their work Synthesising for the first time an historical perspective to geomorphological mapping field based and digital tools and techniques for mapping and an extensive array of case studies from academics and professionals active in the area Those active in geomorphology engineering geology reinsurance Environmental Impact Assessors and allied areas will find the text of immense value Growth of interest in geomorphological mapping and currently no texts comprehensively cover this topic Extensive case studies that will appeal to professionals academics and students with extensive use of diagrams potentially colour plates Brings together material on digital mapping GIS and remote sensing cartography and data sources with a focus on modern technologies including GIS remote sensing and digital terrain analysis Provides readers with summaries of current advances in methodological technical aspects Accompanied by electronic resources for digital mapping

**Mass-transport Deposits in Deepwater Settings** R. Craig Shipp, Paul Weimer, Henry W. Posamentier, 2011 Historically submarine mass failures or mass transport deposits have been a focus of increasingly intense investigation by academic institutions particularly during the last decade though they received much less attention by geoscientists in the energy industry With recent interest in expanding petroleum exploration and production into deeper water depths globally and more widespread availability of high quality data sets mass transport deposits are now recognized as a major component of most deep water settings This recognition has led to the realization that many aspects of these deposits are still unknown or poorly understood This volume contains twenty three papers that address a number of topics critical to further understanding mass transport deposits These topics include general overviews of these deposits depositional settings on the seafloor and in the near subsurface interval geohazard concerns descriptive outcrops integrated outcrop and seismic data seismic forward modeling petroleum reservoirs and case studies on several associated topics This volume will appeal to a broad cross section of geoscientists and geotechnical engineers who are interested in this rapidly expanding field The selection of papers in this volume reflects a growing trend towards a more diverse blend of disciplines and topics covered in the study of mass transport deposits

**Historical Seismology** Julien Fréchet, Mustapha Meghraoui, Massimiliano Stucchi, 2008-08-22 Modern seismology has faced new challenges in the study of earthquakes and their physical characteristics This volume is dedicated to the use of new approaches and presents a state of the art in historical seismology Selected historical and recent earthquakes are chosen to document and constrain related seismic parameters using updated methodologies in the macroseismic analysis field observations of damage distribution and tectonic effects and modelling of seismic waveforms A critical re evaluation of historical accounts and early seismograms

provides us with the basis for a realistic seismic hazard assessment This book is dedicated to the memory of Jean Vogt 1929-2005 Audience This book is of value to seismologists earthquake geologists engineering seismologists earth scientists and historians of catastrophes Atlas of the Deep-Water Seabed Boris Dorschel, Andrew J. Wheeler, Xavier Monteys, Koen Verbruggen, 2010-09-17 Presented in an accessible user friendly format this atlas sets out all the major features revealed during one of the largest ever deep sea mapping campaigns A unique insight into the morphology of the seabed along the continental margin of the North East Atlantic it reveals for the first time many features that have hitherto been hidden beneath the waves It is organised both thematically and by region with the sea floor and its biological hotspots areas of high biodiversity such as seamounts shown at a resolution not possible before The atlas presents everything from submarine canyons to coral carbonate mounds using digital terrain models generated from multibeam data and photographs taken from unmanned deep water vehicles ROVs The full colour imagery includes digital three dimensional seabed maps as well as the photographs with concise text descriptions and topic boxes used to highlight and explain the geological biological and hydrographical features in addition to their importance and context in the deep sea realm Alongside the wealth of background information and topic boxes on special highlights extensive on line resources link the reader to full data sets and GIS locations while suggestions for further reading point to ongoing research highlights This is a fascinating resource that will be of use to anyone involved in off shore and underwater activities whether scientific or commercial *Geoinformatics for Marine and Coastal Management* Darius Bartlett, Louis Celliers, 2016-12-19 Geoinformatics for Marine and Coastal Management provides a timely and valuable assessment of the current state of the art geoinformatics tools and methods for the management of marine systems This book focuses on the cutting edge coverage of a wide spectrum of activities and topics such as GIS based application of drainage basin analysis contribution of ontology to marine management geoinformatics in relation to fisheries management hydrography indigenous knowledge systems and marine law enforcement The authors present a comprehensive overview of the field of Geoinformatic Applications in Marine Management covering key issues and debates with specific case studies illustrating real world applications of the GIS technology This box of tools serves as a long term resource for coastal zone managers professionals practitioners and students alike on the management of oceans and the coastal fringe promoting the approach of allowing sustainable and integrated use of oceans to maximize opportunities while keeping risks and hazards to a minimum **Mediterranean Cold-Water Corals: Past, Present and Future** Covadonga Orejas, Carlos Jiménez, 2019-07-10 What do we know about Mediterranean Cold Deep Water coral ecosystems In this book specialists offer answers and insights with a series of chapters and short papers about the paleoecology biology physiology and ecology of the corals and other organisms that comprise these ecosystems Structured on a temporal axis Past Present and Future the reviews and selected study cases cover the cold and deep coral habitats known to date in the Mediterranean Basin This book illustrates and explains the deep Mediterranean coral habitats that might have

originated similar thriving ecosystems in today's Atlantic Ocean

**Upwelling Systems of the World** Jochen Kämpf, Piers

Chapman, 2016-08-29 Upwelling systems are special places in the oceans where nutrient enriched water is brought into the euphotic zone to fuel phytoplankton blooms that via marine food web interactions create the world's richest fish resources. This book introduces the reader to the interdisciplinary science of upwelling and provides a comprehensive overview of the world's most productive marine ecosystems in the context of climate variability, climate change and human exploitation. This material presented is suitable for undergraduate and postgraduate study or just for anyone interested to learn about the creation of life in the oceans and how this is compromised by human activities. *Nature and Significance of the Recent*

*Carbonate Mound Record* Anneleen Foubert, Jean-Pierre Henriot, 2009-07-07 No books are available on the market describing recent carbonate mounds along the European continental margins and deciphering step by step their internal structure. The first results of IODP Expedition 307 Modern Carbonate Mounds Porcupine Drilling are published in Ferdelman T G Kano A Williams T Henriot J P and the Expedition 307 Scientists 2006 Proc IODP 307 Washington DC Integrated Ocean Drilling Program Management International Inc doi 10.2204/iodp.proc.307.2006. However these proceedings do not give an overview of the existing knowledge on carbonate mounds and do not include detailed post cruise analysis and advanced interpretations.

**Submarine Mass Movements and Their Consequences** Yasuhiro Yamada, Kiichiro Kawamura, Ken Ikehara, Yujiro Ogawa, Roger Urgeles, David Mosher, Jason Chaytor, Michael Strasser, 2011-10-13 Submarine mass movements represent major offshore geohazards due to their destructive and tsunami generation potential. This potential poses a threat to human life as well as to coastal nearshore and offshore engineering structures. Recent examples of catastrophic submarine landslide events that affected human populations including tsunamis are numerous e.g. Nice airport in 1979, Papua New Guinea in 1998, Stromboli in 2002, Finneidfjord in 1996 and the 2006 and 2009 failures in the submarine cable network around Taiwan. The Great East Japan Earthquake in March 2011 also generated submarine landslides that may have amplified effects of the devastating tsunami. Given that 30% of the World's population live within 60 km of the coast, the hazard posed by submarine landslides is expected to grow as global sea level rises. This elevated awareness of the need for better understanding of submarine landslides is coupled with great advances in submarine mapping, sampling and monitoring technologies. Laboratory analogue and numerical modeling capabilities have also developed significantly of late. Multibeam sonar, 3D seismic reflection and remote and autonomous underwater vehicle technologies provide hitherto unparalleled imagery of the geology beneath the oceans, permitting investigation of submarine landslide deposits in great detail. Increased and new access to drilling, coring, in situ measurements and monitoring devices allows for ground truth of geophysical data and provides access to samples for geotechnical laboratory experiments and information on in situ strength and effective stress conditions of underwater slopes susceptible to fail. Great advances in numerical simulation techniques of submarine landslide kinematics and tsunami propagation particularly since the 2004 Sumatra tsunami have also led to increased understanding.



and predictability of submarine landslide consequences This volume consists of the latest scientific research by international experts in geological geophysical engineering and environmental aspects of submarine mass failure focused on understanding the full spectrum of challenges presented by submarine mass movements and their consequences

Cold-Water Corals J. Murray Roberts, Andrew Wheeler, André Freiwald, Stephen Cairns, 2009-04-30 There are more coral species in deep cold waters than in tropical coral reefs This broad ranging treatment is the first to synthesise current understanding of all types of cold water coral covering their ecology biology palaeontology and geology Beginning with a history of research in the field the authors describe the approaches needed to study corals in the deep sea They consider coral habitats created by stony scleractinian as well as octocoral species The importance of corals as long lived geological structures and palaeoclimate archives is discussed in addition to ways in which they can be conserved Topic boxes explain unfamiliar concepts and case studies summarise significant studies coral habitats or particular conservation measures Written for professionals and students of marine science this text is enhanced by an extensive glossary online resources and a unique collection of colour photographs and illustrations of corals and the habitats they form *Deep-water Contourite Systems* Dorrik A. V. Stow, 2002

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