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Mass-Transport Deposits in Deepwater Settings



Edited by
R. G. C. G. G. G.
Paul M. M.
Henry W. R.

Mass Transport Deposits In Deepwater Settings

**Geoffroy Lamarche,Joshu
Mountjoy,Suzanne Bull,Tom
Hubble,Sebastian Krastel,Emily
Lane,Aaron Micallef,Lorena
Moscardelli,Christof Mueller,Ingo
Pecher,Susanne Woelz**

Mass Transport Deposits In Deepwater Settings:

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

Petroleum Systems of Deepwater Settings Paul Weimer, Roger M. Slatt, 2004

New Perspectives on Deep-water Sandstones G. Shanmugam, 2012-03-14 This handbook is vital for understanding the origin of deep water sandstones emphasizing sandy mass transport deposits SMTDs and bottom current reworked sands BCRSs in petroleum reservoirs This cutting edge perspective a pragmatic alternative to the conventional turbidite concepts is crucial because the turbidite paradigm is built on a dubious foundation without empirical data on sandy turbidity currents in modern oceans In the absence of evidence for sandy turbidity currents in natural environments elegant theoretical models and experimental observations of turbidity currents are irrelevant substitutes for explaining the origin of sandy deposits as turbidites In documenting modern and ancient SMTDs sandy slides sandy slumps and sandy debrites and BCRSs deposits of thermohaline contour currents wind driven currents and tidal currents the author describes and interprets core and outcrop 1 20 to 1 50 scale from 35 case studies worldwide which include 32 petroleum reservoirs totaling more than 10 000 m in cumulative thickness carried out during the past 36 years 1974 2010 The book dispels myths about the importance of sea level lowstand and provides much needed clarity on the triggering of sediment failures by earthquakes meteorite impacts tsunamis and cyclones with implications for the distribution of deep water sandstone petroleum reservoirs Promotes pragmatic interpretation of deep water sands using alternative possibilities Validates the economic importance of SMTDs and BCRS in deep water exploration and production Rich in empirical data and timely new perspectives

Submarine Mass Movements and Their Consequences D.C. Mosher, Craig Shipp, Lorena Moscardelli, Jason Chaytor, Chris Baxter, Homa Lee, Roger Urgeles, 2009-10-27 Recent global events such as the devastating 1998 Papua New Guinea tsunami the 2004

Sumatran tsunami and the 2006 SE Asia undersea network cable failure underscore the societal and economic effects of submarine mass movements. These events call upon the scientific community to understand submarine mass movement processes and consequences to assist in hazard assessment mitigation and planning. Additionally, submarine mass movements are beginning to be recognized as prevalent in continental margin geologic sections. As such, they represent a significant if not dominant role in margin sedimentary processes. They also represent a potential hazard to hydrocarbon exploration and development but also represent exploration indicators and targets. This volume consists of a collection of the latest scientific research by international experts in geological geophysical engineering and environment aspects of submarine mass failures focussed on understanding the full spectrum of challenges presented by submarine mass movements and their consequences.

Multiscale Modeling of Deep-water Channel Deposits Lisa Elizabeth Stright, 2011. Sedimentological models capture the processes and subsequent deposits that explain the distribution of facies within a depositional system. The first sedimentological models for deep water depositional systems were portrayed as idealized shelf break to slope submarine basin sediment dispersal systems. These models were developed from ancient outcrop exposures Mutti and Lucchi 1972 and from the modern day seafloor Normark 1970 1978. More recent model development has been based largely on observations from modern slope channels including the Amazon Channel Pirmez and Imran 2003 offshore West African Abreu et al 2003 Deptuck et al 2003 and attempts at generalization from multiple studies Mayall et al 2006 as well as ancient outcrop studies e.g. Brushy Canyon Gardner et al 2003. Concepts from these sedimentological models have been the principle foundation for development of quantitative geostatistical models. A geostatistical model adapts the conceptualization of facies distribution from the sedimentological model. This information is then coded into a three dimensional gridded computer model directly constrained to available data i.e. wireline logs, core data and seismic attributes. Geostatistical models developed for deep water depositional systems have primarily focused on either sinuous channels confined by levees or erosional surfaces e.g. Larue and Hovadik 2006 Labourdette et al 2007 Pyrcz et al 2008 McHargue et al 2010 Sylvester et al 2010 or basin floor or overbank lobes associated with loss of confinement from sinuous channels Pyrcz et al 2005 Wellner et al 2006 Zhang et al 2009. Although widely used, such geostatistical models have limited applicability in fitting all deep water depositional systems and cases exist that require modification of such models or creation of entirely new models. In this dissertation, I show the importance of synthesizing sedimentological and geostatistical models based on observations from the data. The primary objectives of this dissertation are 1) to present methodologies to enable the creation of better sedimentological models from remote sensing data and 2) to present a means to model depositional architectures for a system that cannot currently be captured with standard geostatistical modeling approaches. The main contributions are threefold. The first contribution presented in Chapter 1 is a methodology designed to extract subseismic lithologic information from inverted pre-stack seismic reflectivities. Also in Chapter 1, the predictive power of this methodology is demonstrated on a dataset from the

subsurface of the Molasse Basin in Upper Austria Beyond this dissertation Bernhardt et al in review adopted the methodology to support the development of a more predictive sedimentological model for the same dataset The second contribution presented in Chapter 2 is a new approach for building predictive quantitative spatial models for a deep water channel belt in which sand deposition is controlled by mass transport deposit topography This methodology leverages sedimentological interpretations derived from subseismic lithologic information as presented in Chapter 1 and the sedimentological work of Bernhardt et al in review The final contribution of this dissertation is presented in two outcrop studies Chapters 3 and 4 utilize extensive data collected from deep water channel outcrops to build digital outcrop models The model from Chapter 3 is used to demonstrate the predictive power of pre stack seismic reflectivity data in interpreting the large scale architecture of a heterolithic deep water channel system exposed in the sea cliffs along Blacks Beach near La Jolla California Finally the outcrop modeling study presented in Chapter 4 presents a methodology to capture structural and stratigraphic uncertainty in outcrop observations in order to analyze the three dimensional channel morphology of the Cerro Toro deep water channel belt exposed in Sierra del Toro outcrops in the Magallanes Basin of Chile These four chapters are described in more detail below

Submarine Landslides Kei Ogata, Andrea Festa, Gian Andrea Pini, 2019-11-26 An examination of ancient and contemporary submarine landslides and their impact Landslides are common in every subaqueous geodynamic context from passive and active continental margins to oceanic and continental intraplate settings They pose significant threats to both offshore and coastal areas due to their frequency dimensions and terminal velocity capacity to travel great distances and ability to generate potentially destructive tsunamis Submarine Landslides Subaqueous Mass Transport Deposits from Outcrops to Seismic Profiles examines the mechanisms characteristics and impacts of submarine landslides Volume highlights include Use of different methodological approaches from geophysics to field based geology Data on submarine landslide deposits at various scales Worldwide collection of case studies from on and off shore Potential risks to human society and infrastructure Impacts on the hydrosphere atmosphere and lithosphere

Petroleum Geology of the Black Sea M.D. Simmons, G.C. Tari, A.I. Okay, 2018-08-14 The Black Sea remains one of the largest underexplored rift basins in the world Future success is dependent on a better understanding of a number of geological uncertainties These include reservoir and source rock presence and quality and the timing of migration of hydrocarbons relative to trap formation An appreciation of the geological history of the Black Sea basins and the surrounding orogens is therefore key The timing of basin formation uplift of the margins and of facies distribution remain issues for robust debate This Special Publication presents the results of 15 studies that relate to the tectono stratigraphy and petroleum geology of the Black Sea The methodologies of these studies encompass crustal structure geodynamic evolution stratigraphy and its regional correlation petroleum systems source to sink hydrocarbon habitat and play concepts and reviews of past exploration They provide insight into the many ongoing controversies concerning Black Sea regional geology and provide a better understanding of the geological risks that must be

considered for future hydrocarbon exploration

Deepwater Sedimentary Systems Jon R. Rotzien, Cindy A. Yeilding, Richard A. Sears, F. Javier Hernández-Molina, Octavian Catuneanu, 2022-08-18 Deepwater Sedimentary Systems Science Discovery and Applications helps readers identify understand and interpret deepwater sedimentary systems at various scales both onshore and offshore This book describes the best practices in the integration of geology geophysics engineering technology and economics used to inform smart business decisions in these diverse environments It draws on technical results gained from deepwater exploration and production drilling campaigns and global field analog studies With the multi decadal resilience of deepwater exploration and production and the nature of its inherent uncertainty this book serves as the essential reference for companies consultancies universities governments and deepwater practitioners around the world seeking to understand deepwater systems and how to explore for and produce resources in these frontier environments From an academic perspective readers will use this book as the primer for understanding the processes deposits and sedimentary environments in deep water from deep oceans to deep lakes This book provides conceptual approaches and state of the art information on deepwater systems as well as scenarios for the next 100 years of human led exploration and development in deepwater offshore environments The students taught this material in today s classrooms will become the leaders of tomorrow in Earth s deepwater frontier This book provides a broad foundation in deepwater sedimentary systems What may take an individual dozens of academic and professional courses to achieve an understanding in these systems is provided here in one book Presents a holistic view of how subsurface and engineering processes work together in the energy industry bringing together contributions from the various technical and engineering disciplines Provides diverse perspectives from a global authorship to create an accurate picture of the process of deepwater exploration and production around the world Helps readers understand how to interpret deepwater systems at various scales to inform smart business decisions with a significant portion of the workflows derived from the upstream energy industry

Mass Transport, Gravity Flows, and Bottom Currents G. Shanmugam, 2020-10-31 Mass Transport Gravity Flows and Bottom Currents Downslope and Alongslope Processes and Deposits focuses solely on important downslope and alongslope processes The book provides clear definitions and characteristics based on soil mechanics fluid mechanics and sediment concentration by volume It addresses Slides Slumps and Debris Flows Grain Flows Liquefied Fluidized Flows and Turbidity Currents Density plumes Hyperpycnal Flows the Triggering Mechanisms of Downslope Processes Bottom Currents and Soft Sediment Deformation Structures The mechanics of each process are described in detail and used to provide empirically driven categories to help recognize these deposits in the rock record Case studies clearly illustrate of the problems inherent in recognizing these processes in the rock record and potential solutions are provided alongside future avenues of research An appendix also provides step by step guidance in describing and interpreting sediments Comprehensively addresses modern downslope and alongslope processes including definitions and mechanisms Provides key criteria for the recognition of

depositional facies in the rock record Includes case studies to illustrate each downslope and alongslope process Identifies key problems and potential solutions for future research Uses pragmatic empirical data driven interpretations to revise conventional facies models 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 lead 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

Engineering Geology for Society and Territory - Volume 4 Giorgio Lollino, Andrea Manconi, Jacques Locat, Yu Huang, Miquel Canals Artigas, 2014-08-12 This book is one out of 8 IAEG XII Congress volumes and deals with the processes occurring on the coastal zone which represents a critical interface between land and sea as the contribution of the ocean to the provision of energy and mineral resources will likely increase in the coming decades Several related topics fit into this volume such as coastal developments and infrastructures dredging and beach re nourishment sediment erosion transport and accumulation geohazard assessment seafloor uses seabed mapping exploration and exploitation of the seafloor of the sub seafloor and of marine clean energies and climatic and anthropogenic impacts on coastal and marine environments Examples of specific themes are coastal management and shore protection taking into account storm related events and natural and

anthropogenic changes in the relative sea level planning of waste disposal remedial works for coastal pollution seafloor pipeline engineering slope stability analysis or tsunami propagation and flooding The Engineering Geology for Society and Territory volumes of the IAEG XII Congress held in Torino from September 15 19 2014 analyze the dynamic role of engineering geology in our changing world and build on the four main themes of the congress environment processes issues and approaches The congress topics and subject areas of the 8 IAEG XII Congress volumes are 1 Climate Change and Engineering Geology 2 Landslide Processes River Basins 3 Reservoir Sedimentation and Water Resources 4 Marine and Coastal Processes Urban Geology 5 Sustainable Planning and Landscape Exploitation 6 Applied Geology for Major Engineering Projects 7 Education Professional Ethics and Public Recognition of Engineering Geology 8 Preservation of Cultural Heritage

Submarine Mass Movements and Their Consequences Sebastian Krastel, Jan-Hinrich Behrmann, David Völker, Michael Stipp, Christian Berndt, Roger Urgeles, Jason Chaytor, Katrin Huhn, Michael Strasser, Carl Bonnevie Harbitz, 2013-09-02 Submarine mass movements are a hidden geohazard with large destructive potential for submarine installations and coastal areas This hazard and associated risk is growing in proportion with increasing population of coastal urban agglomerations industrial infrastructure and coastal tourism Also the intensified use of the seafloor for natural resource production and deep sea cables constitutes an increasing risk Submarine slides may alter the coastline and bear a high tsunamogenic potential There is a potential link of submarine mass wasting with climate change as submarine landslides can uncover and release large amounts greenhouse gases mainly methane that are now stored in marine sediments The factors that govern the stability of submarine slopes against failure the processes that lead to slope collapses and the collapse processes by themselves need to be better understood in order to foresee and prepare society for potentially hazardous events This book volume consists of a collection of cutting edge scientific research by international experts in the field covering geological geophysical engineering and environmental aspects of submarine slope failures The focus is on understanding the full spectrum of challenges presented by this major coastal and offshore geohazard

Subaqueous Mass Movements and Their Consequences D.G. Lintern, D.C. Mosher, L.G. Moscardelli, P.T. Bobrowsky, C. Campbell, J.D. Chaytor, J.J. Clague, A. Georgiopoulou, P. Lajeunesse, A. Normandeau, D.J.W. Piper, M. Scherwath, C. Stacey, D. Turmel, 2019-09-25 The challenges facing submarine mass movement researchers and engineers are plentiful and exciting This book follows several high profile submarine landslide disasters that have reached the world's attention over the past few years For decades researchers have been mapping the world's mass movements Their significant impacts on the Earth by distributing sediment on phenomenal scales is undeniable Their importance in the origins of buried resources has long been understood Their hazard potential ranges from damaging to apocalyptic frequently damaging local infrastructure and sometimes devastating whole coastlines Moving beyond mapping advances the subaqueous mass movement scientists and practitioners are now also focussed on assessing the consequences of mass movements and the measurement and modelling

of events hazard analysis and mitigation Many state of the art examples are provided in this book which is produced under the auspices of the United Nations Educational Scientific and Cultural Organisation Program S4SLIDE Significance of Modern and Ancient Submarine Slope LandSLIDES **Encyclopedia of Geology**, 2020-12-16 Encyclopedia of Geology Second Edition presents in six volumes state of the art reviews on the various aspects of geologic research all of which have moved on considerably since the writing of the first edition New areas of discussion include extinctions origins of life plate tectonics and its influence on faunal provinces new types of mineral and hydrocarbon deposits new methods of dating rocks and geological processes Users will find this to be a fundamental resource for teachers and students of geology as well as researchers and non geology professionals seeking up to date reviews of geologic research Provides a comprehensive and accessible one stop shop for information on the subject of geology explaining methodologies and technical jargon used in the field Highlights connections between geology and other physical and biological sciences tackling research problems that span multiple fields Fills a critical gap of information in a field that has seen significant progress in past years Presents an ideal reference for a wide range of scientists in earth and environmental areas of study **Landslides** John J. Clague, Douglas Stead, 2012-08-23 Landslides have geological causes but can be triggered by natural processes rainfall snowmelt erosion and earthquakes or by human actions such as agriculture and construction Research aimed at better understanding slope stability and failure has accelerated in recent years accompanied by basic field research and numerical modeling of slope failure processes mechanisms of debris movement and landslide causes and triggers Written by seventy five world leading researchers and practitioners this book provides a state of the art summary of landslide science It features both field geology and engineering approaches as well as modeling of slope failure and run out using a variety of numerical codes It is illustrated with international case studies integrating geological geotechnical and remote sensing studies and includes recent slope investigations in North America Europe and Asia This is an essential reference for researchers and graduate students in geomorphology engineering geology geotechnical engineering and geophysics as well as professionals in natural hazard analysis **Interpreting Subsurface Seismic Data** Rebecca Bell, David Iacopini, Mark Vardy, 2022-05-27 Interpreting Subsurface Seismic Data presents recent advances in methodologies for seismic imaging and interpretation across multiple applications in geophysics including exploration marine geology and hazards It provides foundational information for context as well as focussing on recent advances and future challenges It offers detailed methodologies for interpreting the increasingly vast quantity of data extracted from seismic volumes Organized into three parts covering foundational context case studies and future considerations Interpreting Subsurface Seismic Data offers a holistic view of seismic data interpretation to ensure understanding while also applying cutting edge technologies This view makes the book valuable to researchers and students in a variety of geoscience disciplines including geophysics hydrocarbon exploration applied geology and hazards Presents advanced seismic detection workflows utilized cutting edge technologies Integrates

geophysics and geology for a variety of applications using detailed examples Provides an overview of recent advances in methodologies related to seismic imaging and interpretation **Subaqueous Mass Movements and Their Consequences**

A. Georgiopoulou, L.A. Amy, S. Benetti, J.D Chaytor, M.A. Clare, D. Gamboa, P.D.W. Haughton, J. Moernaut, J.J.

Mountjoy, 2020-07-08 This GSL volume focuses on underwater or subaqueous landslides with the overarching goal of understanding how they affect society and the environment The new research presented here is the result of significant advances made over recent years in directly monitoring submarine landslides in standardising global datasets for quantitative analysis constructing a global database and leading international research projects This volume demonstrates the breadth of investigation taking place into subaqueous landslides and shows that while events like the recent ones in the Indonesian archipelago can be devastating they are at the smaller end of what the Earth has experienced in the past Understanding the spectrum of subaqueous landslide processes and therefore the potential societal impact requires research across all spatial and temporal scales This volume delivers a compilation of state of the art papers covering topics from regional landslide databases to advanced techniques for in situ measurements to numerical modelling of processes and hazards Submarine Mass Movements and their Consequences

Geoffroy Lamarche, Joshu Mountjoy, Suzanne Bull, Tom Hubble, Sebastian Krastel, Emily Lane, Aaron Micallef, Lorena Moscardelli, Christof Mueller, Ingo Pecher, Susanne Woelz, 2015-10-02 This book is a comprehensive collection of state of the art studies of seafloor slope instability and their societal implications The volume captures the most recent and exciting scientific progress made in this research field As the world's climate and energy needs change the conditions under which slope instability occurs and needs to be considered are also changing The science and engineering of submarine or more widely subaqueous mass movements is greatly benefiting from advances in seafloor and sub seafloor surveying technologies Ultra high resolution seafloor mapping and 3D seismic reflection cubes are becoming commonly available datasets that are dramatically increasing our knowledge of the mechanisms and controls of subaqueous slope failure Monitoring of slope deformation repeat surveying and deep drilling on the other hand are emerging as important new techniques for understanding the temporal scales of slope instability In essence rapid advances in technology are being readily incorporated into scientific research and as a result our understanding of submarine mass movements is increasing at a very fast rate The volume also marks the beginning of the third IGCP project for the submarine mass movement research community IGCP 640 S4SLIDE Significance of Modern and Ancient Submarine Slope LandSLIDEs The Submarine Mass Movements and Their Consequences symposium is the biannual meeting under the IGCP umbrella **Landslide Science and Practice**

Claudio Margottini, Paolo Canuti, Kyoji Sassa, 2013-09-02 This book contains peer reviewed papers from the Second World Landslide Forum organised by the International Consortium on Landslides ICL that took place in September 2011 The entire material from the conference has been split into seven volumes this one is the fifth 1 Landslide Inventory and Susceptibility and Hazard Zoning 2 Early

Warning Instrumentation and Monitoring 3 Spatial Analysis and Modelling 4 Global Environmental Change 5 Complex Environment 6 Risk Assessment Management and Mitigation 7 Social and Economic Impact and Policies The Gulf of Mexico Sedimentary Basin John W. Snedden, William E. Galloway, 2019-11-21 Introduction Mesozoic depositional evolution Cenozoic depositional evolution Petroleum habitat

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