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Submarine Mass Movements and Their Consequences



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Submarine Mass Movements And Their Consequences First International Symposium

**Lanmin Wang, Jian-Min Zhang, Rui
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Submarine Mass Movements and Their Consequences Jacques Locat, Jürgen Mienert, 2012-12-06 Did you know that the Grand Bank earthquake of 1929 triggered a huge submarine mass movement which broke submarine cables over a distance of up to 1000 km from its source and generated a tsunami which devastated a small village in Newfoundland killing 27 people The same happened in Papua New Guinea in 1998 with more than 2000 casualties Submarine mass movements of various sizes and styles are shaping the sea floor and are of concern for many facets of human activities both onshore and offshore These include the development of natural resources energy and communication transport coastal infrastructures and communities This book provides a world wide perspective of submarine mass movements and their consequences This has been made possible by assembling excellent contributions from active researchers groups or institutions thus providing full coverage of the many scientific and engineering aspects of this type of marine and coastal geo hazard It covers fundamental as well as site specific studies from many areas including the Atlantic and Pacific oceans inner seas like the Mediterranean Sea and fjords using the most recent technologies from multibeam sonar imaging techniques 3D seismic analysis slope stability analysis to debris flow and tsunami modeling Audience This book is of interest to any researcher in the field of marine and coastal geo hazards It will be useful for planners scientists and engineers involved in the development of offshore and near shore resources and also to those in charge of the management and mitigation of coastal hazards For graduate students this book provides an up to date vision of the process of submarine mass movements and their consequences from both a scientific and an engineering standpoint and it includes a unique collection of the existing literature on marine geo hazards CD Rom included This volume contains a CD Rom which in addition to an electronically searchable version of the contributions has full colour versions of figures which are printed in black and white in the book

Submarine Mass Movements and Their Consequences Vasilios Lykousis, Dimitris Sakellariou, Jacques Locat, 2007-09-14 With contributions from leading researchers in science and engineering this book provides a global perspective on submarine mass movements and their consequences Authors report on new findings from fundamental as well as site specific studies from around the world All studies relied on the most recent technologies including multi beam sonar imaging techniques 3D seismic analysis slope stability analysis debris flow and tsunami modeling 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

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

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

Landslide Risk Management Oldrich Hungr, Robin Fell, Réjean Couture, Erik Eberhardt, 2005-06-30 Landslide Risk Management comprises the proceedings of the International Conference on Landslide Risk Management held in Vancouver Canada from May 31 to June 3 2005 The first part of the book contains state of the art and invited lectures prepared by teams of authors selected for their experience in specific topics assigned to them by the JTC

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 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.

Proceedings of the 4th International Conference on Performance Based Design in Earthquake Geotechnical Engineering (Beijing 2022) Lanmin Wang, Jian-Min Zhang, Rui Wang, 2022-09-19. The 4th International Conference on Performance based Design in Earthquake Geotechnical Engineering PBD IV is held in Beijing, China. The PBD IV Conference is organized under the auspices of the International Society of Soil Mechanics and Geotechnical Engineering Technical Committee TC203 on Earthquake Geotechnical Engineering and Associated Problems ISSMGE TC203. The PBD I, PBD II and PBD III events in Japan 2009, Italy 2012 and Canada 2017 respectively were highly successful events for the international earthquake geotechnical engineering community. The PBD events have been excellent companions to the International Conference on Earthquake Geotechnical Engineering ICEGE series that TC203 has held in Japan 1995, Portugal 1999, USA 2004, Greece 2007, Chile 2011, New Zealand 2015 and Italy 2019. The goal of PBD IV is to provide an open forum for delegates to interact with their international colleagues and advance performance based design research and practices for earthquake geotechnical engineering.

Landslides in Sensitive Clays Jean-Sébastien L'Heureux, Ariane Locat, Serge Leroueil, Denis Demers, Jacques Locat, 2013-09-17. Landslides in sensitive clays represent a major hazard in the northern countries of the world such as Canada, Finland, Norway, Russia, Sweden and in the US state of Alaska. Past and recent examples of catastrophic landslides at e.g. Saint Jean Vianney in 1971, Rissa in 1979, Finneidfjord in 1996 and Kattmarka in 2009 have illustrated the great mobility of the remolded sensitive clays and their hazardous retrogressive potential. These events call for a better understanding of landslide in sensitive clay terrain to assist authorities with state of the art hazard assessment methods, risk management schemes, mitigation measures and planning. During the last decades, the elevated awareness regarding slope movement in sensitive clays has led to major advances in mapping techniques and development of highly sophisticated geotechnical and geophysical investigation tools. Great advances in numerical techniques dealing with progressive failure and landslide kinematics have also led to increased understanding and predictability of landslides in sensitive clays and their consequences. This volume consists of the latest scientific research by international experts dealing with geological geotechnical and geophysical aspects of slope failure in sensitive clays and focuses on understanding the full spectrum of challenges presented by landslides in such brittle materials.

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