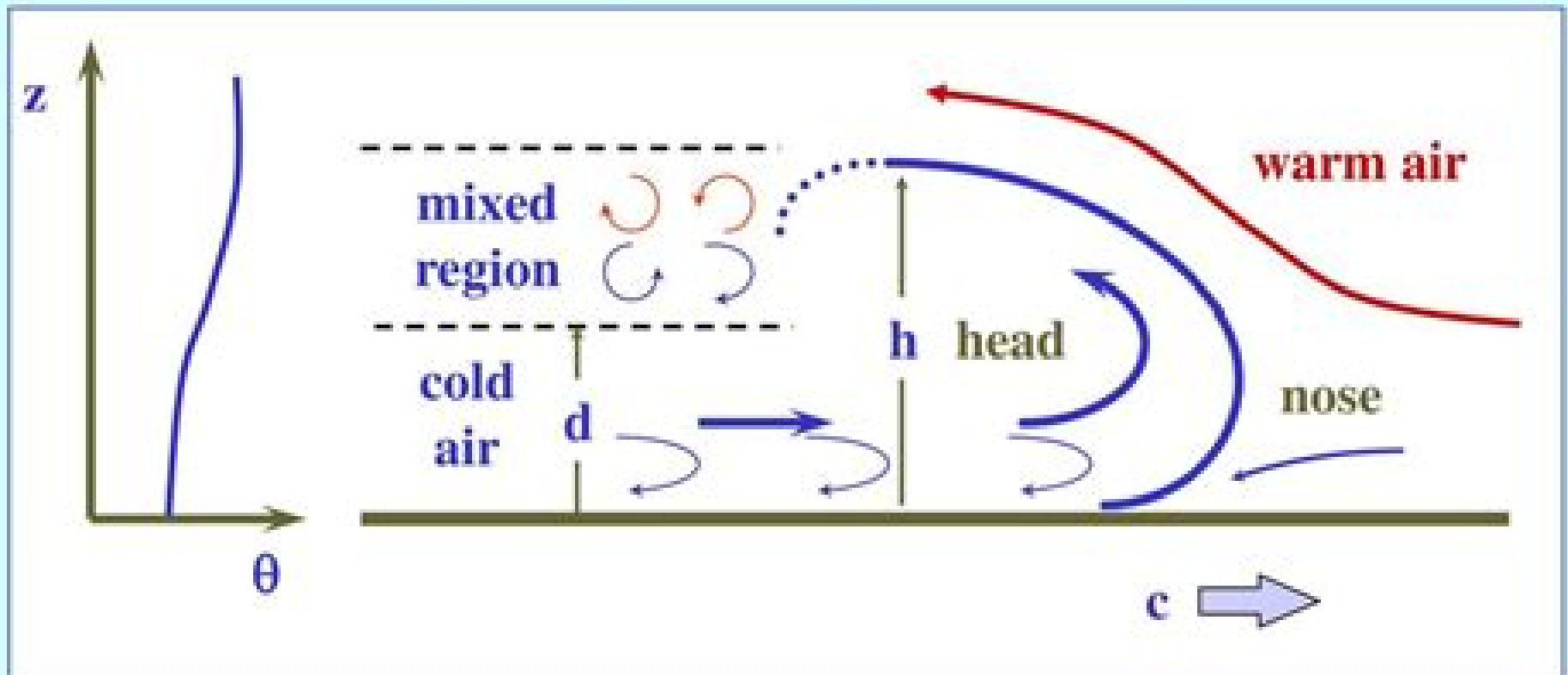


Theory of gravity currents



Schematic diagram of a steady gravity current

Gravity Currents Gravity Currents

Larissa J. Marleau



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Gravity Currents John E. Simpson, 1987 This explanation of the nature of gravity currents Bouyancy driven flows in fluids and their manifestations in the atmosphere the oceans and the earth sciences fills a serious gap in the literature It will also benefit a great many workers in other scientific disciplines who will be able to apply the principles of gravity currents to their own specialist subject Much of the work has not previously been published and the publishers know of no other book with a similar range of information The author's own work in the development of a variety of laboratory experiments designed to offer an understanding of the physical processes is made very clear to the reader illustrating a range of phenomena which are important in areas as diverse as aircraft safety the distribution of airborne pests and airborne pollution The study of oceans ranges from the Gulf Stream to river fronts in lakes and fjords where the formation of a front is of biological importance In a section on avalanche flows avalanches of snow rock and volcanic eruptions are also shown to be gravity currents of vital significance Factors influencing the behaviour of gravity currents are reviewed The topics are dealt with in numerous laboratory experiments and only simple mathematics is included A final chapter reviews the growing subject of numerical models of gravity currents Gravity Currents And Intrusions: Analysis And Prediction Marius

Ungarish, 2020-12-08 The flow of gravity currents and intrusions is a subject of active research and engineering application Currently there are no formal teaching courses for this topic Materials and information available in the market are scattered and dated Researchers and engineers face difficulties in acquiring the state of the art knowledge The book bridges this gap between the need and supply of the relevant insight and know how Written by a renowned author who is a recognized authority in the field this unique compendium assembles the relevant knowledge into a systematic and unified framework The presentation is gradual from the elementary to the frontier and accessible to readers with only a basic background in fluid mechanics and applied mathematics This will facilitate the systematic acquirement and application of available knowledge to both practical problems and further research This must have volume is a useful monograph that can also serve as a textbook in advanced courses for researchers students engineers and applied mathematicians in the fields of civil engineering hydraulic engineering mechanical engineering ocean engineering and environmental engineering

Particulate Gravity Currents W. D. McCaffrey, B. C. Kneller, J. Peakall, 2009-03-05 This volume arises from the conference Sediment Transport and Deposition by Particulate Gravity Currents held in the UK in 1998 The field of particulate gravity currents ranges from turbidity currents in the oceans lakes and reservoirs to pyroclastic density currents and avalanches debris flows and lahars grain flows powder snow avalanches effluent dispersal and ancient gravity current deposits Although the sub division of particulate gravity currents into discrete sub categories such as grain flows turbidity currents or debris flows provides a convenient descriptive shorthand it undermines the sense of process continuum needed to describe many natural flows The structure of this volume reflects an integrative aim with papers grouped by research approach The first section of the book

contains six papers on theoretical and numerical modelling of a range of flow types. The following four papers are focused upon combined theoretical and experimental modelling approaches. The next section contains four papers describing experimental modelling and the final section includes five papers detailing field based studies. The volume stands as a testament to the broad range of research carried out on particulate gravity currents and hints at the enhanced rate of progress that is likely to be achieved through further integrated studies. If you are a member of the International Association of Sedimentologists for purchasing details please see <http://www.iasnet.org/publications/details.asp?code=SP31>. Interaction Between Dense Gravity Currents and Internal Waves Yukinobu Tanimoto, 2021. Gravity currents are flows driven by horizontal density gradients. A dense gravity current is a specific type of gravity current where the density of the fluid is higher than that of the ambient making the gravity current negatively buoyant. When the receiving ambient is stratified the ultimate fate and transport of a dense gravity current becomes more complex. We consider a two layer stratification representative of a stratified water column in lakes and in the near coastal environment. Using laboratory experiments the interaction between dense gravity currents and internal waves are considered. Internal waves are observed to be generated by the gravity current and their behavior in at shorter and longer time scales are quantified. Oncoming internal waves were also introduced which acted to hinder the mass flux of a portion of the split gravity current. Gravity Currents: In Environment & Lab J.E.

Simpson, 1987. **Experimental and Numerical Studies on Two-dimensional Gravity Currents in a Horizontal Channel** W. R. Chan, E. E. Zukoski, Toshi Kubota, California Institute of Technology. Division of Engineering and Applied Science, Center for Fire Research (U.S.), Daniel and Florence Guggenheim Jet Propulsion Center, 1993. The objective of this investigation is to examine the behavior of two dimensional gravity currents especially as applied to the spreading of smoke generated from a room fire along a long corridor. Both experimental and numerical techniques were used to provide a model that can adequately explain and predict the behavior of a gravity current under certain boundary conditions. A series of experiments was carried out to study the effects of Reynolds number on gravity currents in a horizontal water channel. Measurements of the time varying front position, velocity profile of the following current and the depth of a gravity current were made using either dyed liquids or hydrogen bubble technique. Quantitative results were shown to agree with previously published results. A model was put forth to bridge the gap between the existing models for an inertia buoyancy dominated gravity current and a viscous buoyancy dominated one. Comparison between the experimental results and numerical results obtained from the model proved that the model can adequately explain the behavior of the phenomenon. A second series of experiments was conducted to investigate the behavior of gravity currents in an inclined channel. The quantitative results obtained were less scattered than those obtained in previous research. The gravity current was found to be unsteady in a horizontal channel while a channel with an angle of inclination of one degree was found to produce a steady flow behind the front of the gravity current. The change of the gravity currents from an unsteady to a steady nature due to the change in the

inclination of the channel was found to be gradual and much less abrupt than assumed in previous studies High Reynolds Number Gravity Currents Anja Catharina Slim, University of Cambridge. Department of Applied Mathematics and Theoretical Physics, 2006 **Gravity Currents Propagating Upslope in Uniform and Two-layer Stratified Ambients** Larissa J. Marleau, 2014 Bottom propagating gravity currents resulting from full and partial depth lock release experiments are investigated as they propagate up a rising slope in uniform and two layer stratified ambients In the case of uniform ambients the gravity current front decelerates in a nearly uniform manner along the slope at a rate that agrees with theoretical predictions The shape of the gravity current as it decelerates over relatively steep slopes is found to be self similar with a nearly linear decrease of the head height between the start of the slope and up to 80 % of the distance to the nose Some deviation from self similar behaviour is found in cases with small slopes because of the comparatively large volume of fluid in the gravity current tail that flows downslope while the front continues to advance upwards In the case of two layer ambients the initial gravity current front speed is found to be consistent with a theory adapted from cite shin_dalziel_linden2004 The subsequent evolution depends on the gravity current speed relative to the speed of the interfacial disturbance it creates The deceleration of supercritical gravity currents which travel faster than the interfacial disturbance is gradual and agrees well with the relationship developed for upslope gravity currents in uniform density ambients and modified for a two layer ambient In most subcritical cases the gravity current suddenly comes to rest as a consequence of interactions with the interfacial disturbance The disturbance amplitude speed and width are found to be nearly constant during its evolution In cases for which the ambient interface intersected the tank bottom the amplitude speed and width are nearly constant up to the point where the lower layer shallowed and the disturbance transformed into an upslope propagating gravity current

Gravity Currents on Slopes Andrew Neil Ross, University of Cambridge. Department of Applied Mathematics and Theoretical Physics, 2000 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 **The Internal Structure of Gravity Currents** J. Hacker, 1994

Gravity Currents and Internal Bores Carmela Grandinetti, 1992 *Advances in Fluid Modeling & Turbulence Measurements* Akira Wada, 2002 This book is an essential reference for engineers and scientists working in the field of turbulence It covers a variety of applications such as turbulence measurements mathematical and numerical modeling of turbulence thermal hydraulics applications for civil mechanical and nuclear engineering environmental fluid mechanics river and open channel flows coastal problems ground water **River Flow 2014** Anton J. Schleiss, Giovanni de Cesare, Mario J. Franca, Michael Pfister, 2014-08-12 The behaviour of river systems is a result of the complex interaction between flow sediments morphology and habitats Furthermore rivers are often used as a source of water supply and energy production as well as a waterway for transportation The main challenge faced by river engineers today in collaboration with environmental

and ecological scientists is to restore the channelized rivers under the constraints of high urbanization and limited space as well as sustainable water use During the seventh International Conference on Fluvial Hydraulics River Flow 2014 at cole Polytechnique F d rale de Lausanne EPFL Switzerland scientists and professionals from all over the world addressed this challenge and exchanged their knowledge regarding fluvial hydraulics and river morphology This book comprises the proceedings of the high quality contributions of the participants which reflect the state of the art in the fields of river hydrodynamics morphodynamics sediment transport river engineering and restoration The conference was organized under the auspices of the Committee on Fluvial Hydraulics of the International Association for Hydro Environment Engineering and Research IAHR Past River Flow conferences have witnessed a significant increase in participation of our community of river engineers and researchers confirming the need for such a forum

Gravity Currents in Rotating Channels Jacob Hacker, University of Cambridge. Department of Applied Mathematics and Theoretical Physics, 1996 River Flow 2016 George Constantinescu, Marcelo Garcia, Dan Hanes, 2016-06-22 Understanding and being able to predict fluvial processes is one of the biggest challenges for hydraulics and environmental engineers hydrologists and other scientists interested in preserving and restoring the diverse functions of rivers The interactions among flow turbulence vegetation macroinvertebrates and other organisms as well as the transport and retention of particulate matter have important consequences on the ecological health of rivers Managing rivers in an ecologically friendly way is a major component of sustainable engineering design maintenance and restoration of ecological habitats To address these challenges a major focus of River Flow 2016 was to highlight the latest advances in experimental computational and theoretical approaches that can be used to deepen our understanding and capacity to predict flow and the associated fluid driven ecological processes anthropogenic influences sediment transport and morphodynamic processes River Flow 2016 was organized under the auspices of the Committee for Fluvial Hydraulics of the International Association for Hydro Environment Engineering and Research IAHR Since its first edition in 2002 the River Flow conference series has become the main international event focusing on river hydrodynamics sediment transport river engineering and restoration Some of the highlights of the 8th International Conference on Fluvial Hydraulics were to focus on inter disciplinary research involving among others ecological and biological aspects relevant to river flows and processes and to emphasize broader themes dealing with river sustainability River Flow 2016 extended abstract book 854 pages full paper CD ROM 2436 pages contains the contributions presented during the regular sessions covering the main conference themes and the special sessions focusing on specific hot topics of river flow research and will be of interest to academics interested in hydraulics hydrology and environmental engineering

Gravity Currents in Porous Media Madeleine Jane Golding, 2013 *Sedimentary Environments* Harold G. Reading, 2009-07-15 *Sedimentary Environments* is one of the most distinguished and influential textbooks in the earth sciences published in the last 20 years The first and second editions both won universal praise and became classic works in

sedimentology Since the publication of the last edition the study of sedimentary environments and facies has made great strides with major advances in facies modelling sequence stratigraphy and basin modelling The 3rd edition of this classic text will likely set the benchmark even higher and needless to say will continue being the textbook of choice for sedimentology students The latest edition of a classic text Incorporates all the latest advances in dynamic stratigraphy Will remain the textbook of choice for upper level undergraduate and graduate students in sedimentology Monthly Weather Review ,1999

Principles of Physical Sedimentology John Allen, 2012-12-06 apparatus is generally not required for the making of My aim in this book is simple It is to set out in a logical useful sedimentological experiments Most of the equip way what I believe is the minimum that the senior ment needed for those I describe can be found in the kit undergraduate and beginning postgraduate student in the Earth sciences should nowadays know of general chen bathroom or general laboratory and the materials most often required sand clay and flow marking physics in order to be able to understand rather than substances are cheaply and widely available As form merely a descriptive knowledge of the smaller described the experiments are for the most part purely scale mechanically formed features of detrital sedi ments In a sense this new book is a second edition of qualitative but many can with only little modification my earlier Physical processes of sedimentation 1970 be made the subject of a rewarding quantitative exer which continues to attract readers and purchasers inas cise The reader is urged to tryout these experiments much as time has not caused me to change significantly and to think up additional ones Experimentation the essence of my philosophy about the subject Time should be as natural an activity and mode of enquiry for has however brought many welcome new practitioners a physical sedimentologist as the wielding of spade and to the discipline of sedimentology thrown up a hammer

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