

GeoPlanet: Earth and Planetary Sciences

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# The Role of Submarine Groundwater Discharge as Material Source to the Baltic Sea

 Springer

# Submarine Groundwater Discharge Material Geoplanet

**Beata Szymczycha, Janusz Pempkowiak**



## **Submarine Groundwater Discharge Material Geoplanet:**

**The Role of Submarine Groundwater Discharge as Material Source to the Baltic Sea** Beata Szymczycha, Janusz Pempkowiak, 2015-11-27 The book provides a review of experimental methods and presents the worldwide newest literature regarding chemical substances fluxes via submarine groundwater discharge SGD Thus the book characterizes both the distribution of chemicals in groundwater impacted areas in the Baltic Sea and their fluxes via SGD to the Baltic Sea This book presents the state of art regarding the SGD and detailed studies on SGD characterization in the Baltic Sea The Baltic Sea is an example of a region highly influenced by a variety of human activities that affect the ecosystem It is shown that SGD has been proven to be one of the important sources introducing dissolved substances into the Baltic Sea The loads of chemical substances delivered to the Baltic sea with SGD have not been quantified so far **World Seas: An**

**Environmental Evaluation** Jean-Francois Hamel, 2018-08-24 World Seas An Environmental Evaluation Second Edition Volume One Europe The Americas and West Africa provides a comprehensive review of the environmental condition of the seas of Europe the Americas and West Africa Each chapter is written by experts in the field who provide historical overviews in environmental terms current environmental status major problems arising from human use informed comments on major trends problems and successes and recommendations for the future The book is an invaluable worldwide reference source for students and researchers who are concerned with marine environmental science fisheries oceanography and engineering and coastal zone development Covers regional issues that help countries find solutions to environmental decline that may have already developed elsewhere Provides scientific reviews of regional issues thus empowering managers and policymakers to make progress in under resourced countries and regions Includes comprehensive maps and updated statistics in each region covered Submarine Groundwater Discharge: Impacts on Coastal Ecosystem by Hidden Water and Dissolved Materials Makoto Taniguchi, Isaac R. Santos, Henrietta Dulai, Ryo Sugimoto, Abhijit Mukherjee, Jun Shoji, 2021-03-03

**Submarine Groundwater Discharge**, 2004 **Submarine Groundwater Discharge** William C. Burnett, Jeffrey P. Chanton, Evgenii Alekseevich Kontar', 2003 **Submarine Groundwater Discharge** D. Reide Corbett, United States. National Oceanic and Atmospheric Administration, Florida Sea Grant College, University of Florida. Institute of Food and Agricultural Sciences, 2001 Submarine Groundwater Discharge in the Southeast and Gulf Coast Regions of the United States Clayton Alton McCoy, East Carolina University. Coastal Resources Management Program, 2006 **Special Issue on Submarine Groundwater Discharge**, 2003 *Effect of Submarine Groundwater Discharge on Coastal Ecology* Wai-Yan Cherry Chu, 2017-01-26 **Submarine Groundwater Discharge to Port Royal Sound, SC** Andrew Michael Croftwell, 1998 **Modeling Constraints on the Origin of Submarine Groundwater Discharge, Onslow Bay, North Carolina** Sarah P. Merchant, 1996 QUANTIFYING SUBMARINE GROUNDWATER DISCHARGE TO INDIAN RIVER LAGOON, FLORIDA... USGS OFR, 2002\* Submarine Groundwater Discharge Studies Along the Ubatuba Coastal Area in

South-eastern Brazil William C. Burnett, Joselene de Oliveira, Pavel P. Povinec, 2008      **Locating Zones and Quantify the Submarine Groundwater Discharge Into the Eastern Shores of the Dead Sea - Jordan** Emad Jalal Akawwi, 2006

**Liu an shi wen ji**, 1970      **Mapping submarine groundwater discharge areas - an example from laholm bay, southwest sweden** V. Vanek, 1991      **Distribution of Submarine Groundwater Discharge at Coastlines** John Paul Rapaglia, 2004      **Submarine Groundwater Discharge**, 2004      *Identification of Submarine Groundwater Discharge Along the Coast of Santa Catalina Island, California* Michelle Baroldi, 2018

Abstract The purpose of this study was to investigate multiple methods used to locate and identify sources of submarine groundwater discharge SGD along the coastline of Santa Catalina Island Catalina in Los Angeles California The driving hypothesis is that SGD may be identified by higher temperature lower salinity plumes To test this hypothesis temperature and conductivity measurements were made along the shoreline of Catalina and compared with previously collected airborne thermal infrared images In some locations where potential zones of SGD were identified samples were collected from the surface water within the plume and analyzed for the presence of radon Radon in ocean water can be used as a tracer to identify the presence of terrestrial groundwater The analysis was complicated by dynamic variables including tides weather and sample collection In spite of this uncertainty one potential zone of SGD was identified using sea surface temperature electrical conductivity and radon at Toyon Bay This zone of SGD is consistent with the location of warm water shown in airborne infrared imagery These results suggest that high resolution thermal imagery may be useful for identifying diffuse SGD in southern California but further field tests will be necessary to confirm this conclusion      *Submarine Groundwater Discharge Along the Coast of the Taiwan Strait Indicated by Source and Sink Transport of Radium* □□□, 2018

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