Record Nr. UNINA9910130937903321 Antarctic subglacial aquatic environments [[electronic resource] /] / **Titolo** Martin J. Siegert, Mahlon C. Kennicutt II, Robert A. Bindschadler, editors Pubbl/distr/stampa Washington, D.C.,: American Geophysical Union, c2011 **ISBN** 1-118-67035-3 1-118-67231-3 Descrizione fisica 1 online resource (255 p.) Collana Geophysical Monograph Series;; 192 Altri autori (Persone) SiegertMartin J KennicuttMahlon C BindschadlerR. A (Robert A.) Disciplina 551.482 Soggetti Aquatic ecology - Antarctica Subglacial lakes - Antarctica - History Subglacial lakes - Antarctica - Discovery and exploration Subglacial lakes - Polar regions - History Subglacial lakes - Polar regions - Discovery and exploration Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Nota di bibliografia Includes bibliographical references at the end of each chapters and index. Nota di contenuto Title Page; Contents; Preface; Section I: History and Background; Subglacial Aquatic Environments: A Focus of 21st Century Antarctic Science: The Identification and Physiographical Setting of Antarctic Subglacial Lakes: An Update Based on Recent Discoveries; Antarctic Subglacial Lake Discharges; Section II: Vostok Subglacial Lake and Recognition of Subglacial Aquatic Environments; Vostok Subglacial Lake: A Review of Geophysical Data Regarding Its Discovery and Topographic Setting; Microbial Communities in Antarctic Subglacial **Aquatic Environments** Subglacial Lake Sediments and Sedimentary Processes: Potential Archives of Ice Sheet Evolution, Past Environmental Change, and tThe Geomorphic Signature of Massive Subglacial Floods in Victoria Land. Antarctica: Subglacial Environments and the Search for Life Beyond the Earth; Section III: Future Exploration Missions; Environmental Protection

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Sommario/riassunto

Published by the American Geophysical Union as part of the Geophysical Monograph Series, Volume 192. Antarctic Subglacial Aquatic Environments is the first volume on this important and fascinating subject. With its underlying theme of bridging existing knowledge to future research, it is a benchmark in the history of subglacial lake exploration and study, containing up-to-date discussions about the history and background of subglacial aquatic environments and future exploration. The main topics addressed are identification, location, physiography, and hydrology of 387 subglac