Record Nr. UNINA9910829838203321 **Titolo** Diversity of hydrothermal systems on slow spreading ocean ridges [[electronic resource]] / Peter A. Rona ... [et al.], editors Pubbl/distr/stampa Washington, D.C., : American Geophysical Union, c2010 **ISBN** 1-118-66661-5 1-118-67224-0 Descrizione fisica 1 online resource (449 p.) Collana Geophysical Monograph Series;; 188 Altri autori (Persone) RonaPeter A Disciplina 551.2/309162 551.2309162 Soggetti Sea-floor spreading Hydrothermal deposits Chemical oceanography Hydrothermal vents 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: Diversity of Hydrothermal Systems on Slow Spreading Ocean Ridges: Introduction; Emerging Diversity of Hydrothermal Systems on Slow Spreading Ocean Ridges; Hydrothermal Circulation at Slow Spreading Ridges: Analysis of Heat Sources and Heat Transfer Processes; Chemical Signatures From Hydrothermal Venting on Slow Spreading Ridges; The Magnetic Signature of Hydrothermal Systems in Slow Spreading Environments; Hydrothermal Activity at the Arctic Mid-Ocean Ridges Implications of the Iceland Deep Drilling Project for Improving Understanding of Hydrothermal Processes at Slow Spreading Mid-OcCrustal Structure, Magma Chamber, and Faulting Beneath the Lucky Strike Hydrothermal Vent Field; The Relationships Between Volcanism, Tectonism, and Hydrothermal Activity on the Southern Equatorial Mid-Atlantic Ridge; The Ultraslow Spreading Southwest Indian Ridge; Deformation and Alteration Associated With Oceanic and Continental Detachment Fault Systems: Are They Similar?

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Published by the American Geophysical Union as part of the Geophysical Monograph Series, Volume 188. Diversity of Hydrothermal Systems on Slow Spreading Ocean Ridges presents a multidisciplinary overview of the remarkable emerging diversity of hydrothermal systems on slow spreading ocean ridges in the Atlantic, Indian, and Arctic oceans. When hydrothermal systems were first found on the East Pacific Rise and other Pacific Ocean ridges beginning in the late 1970s, the community consensus held that the magma delivery rate of intermediate to fast spreading was necessary to suppo