The mid-ocean ridge system is the site of creation of the oceanic crust and lithosphere that cover more than two-thirds of the Earth. Nearly three-quarters of Earth's total heat flux occurs through oceanic crust, much of it through hydrothermal circulation at mid-ocean ridges. How does this hydrothermal activity transfer heat from Earth's lithosphere to its hydrosphere? How do hydrothermal vents, their heat and chemical fluxes, vary in time and space? How are these variations related to the geology of the underlying crust/lithosphere?

This volume features multidisciplinary studies on such questions from geophysical, petrological, geochemical, seafloor observational, experimental and theoretical perspectives, including:

- Processes of heat transfer from Earth's mantle via mid-ocean ridges to the oceans
- Global variations in hydrothermal vents and heat flux
- Morphology, rheology, internal structure, and geology of the oceanic lithosphere and their controls on hydrothermal circulation
- Physical and chemical reaction processes in hydrothermal circulation systems
- Direct observations and measurements of hydrothermal vents from submersibles

Scientists and students working in marine geochemistry, marine geology and geophysics, tectonophysics, volcanology, geochemistry and petrology, as well as multidisciplinary scientists with an interest in mid-ocean ridges and hydrothermal systems will find this work an important resource in our evolving view of the Earth.

www.agu.org

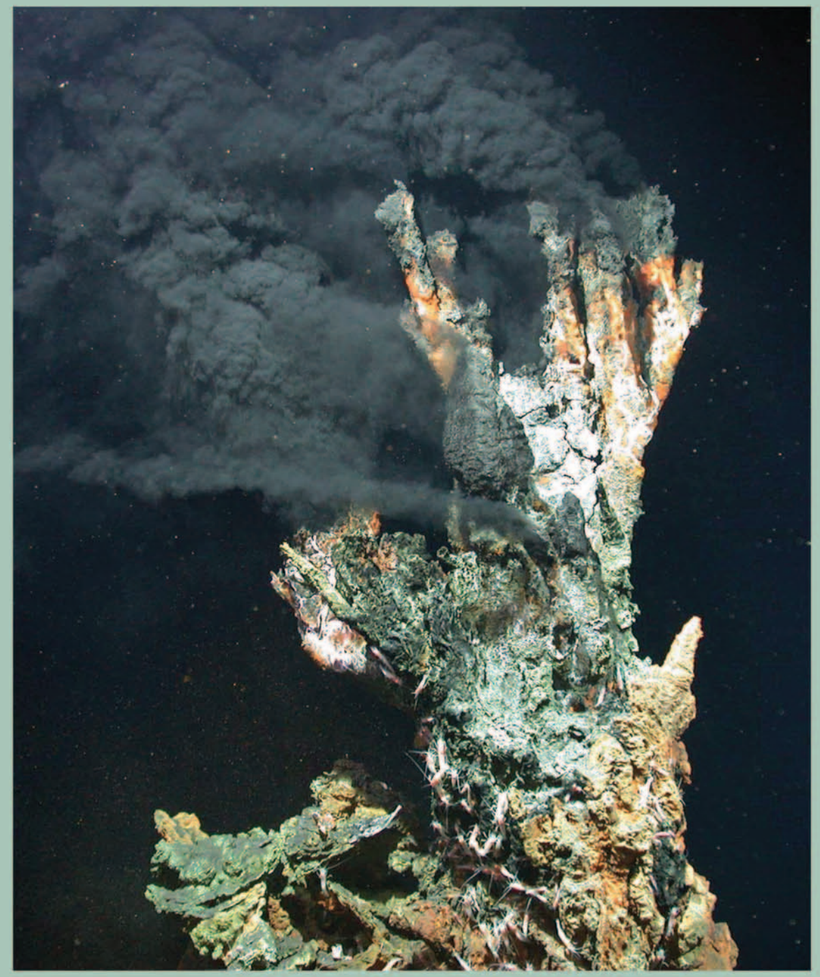
ISBN 0-87590-413-0

Geophysical
Monograph
148

MID-OCEAN RIDGES
Hydrothermal Interactions
between the Lithosphere and Oceans

AGU

MID-OCEAN RIDGES
Hydrothermal Interactions between the Lithosphere and Oceans



Christopher R. German, Jian Lin, and Lindsay M. Parson, *Editors*

CONTENTS

Mid-Ocean Ridges: Hydrothermal Interactions between the Lithosphere and Oceans

O - Order (*Places title(s) in your bookbag. You can change selections at any time before finally submitting your order.*)		
	N - Do Not Order (*Removes title(s) from your bookbag*)	
O	**N**	**Description**
○	◉	**Mid-Ocean Ridges: Hydrothermal Interactions between the Lithosphere and Oceans** *Christopher R. German, Jian Lin, and Lindsay M. Parson, Editors* The mid-ocean ridge system is the site of creation of the oceanic crust and lithosphere that cover more than two-thirds of the Earth. Nearly three-quarters of Earth's total heat flux occurs through oceanic crust, much of it through hydrothermal circulation at mid-ocean ridges. How does this hydrothermal activity transfer heat from Earth's lithosphere to its hydrosphere? How do hydrothermal vents, their heat and chemical fluxes, vary in time and space? How are these variations related to the geology of the underlying crust/lithosphere? This volume features multidisciplinary studies on such questions from geophysical, petrological, geochemical, seafloor observational, experimental and theoretical perspectives, including: · Processes of heat transfer from Earth's mantle, via mid-ocean ridges, to the oceans · Global variations in hydrothermal vents and heat flux · Morphology, rheology, internal structure, and geology of the oceanic lithosphere and their controls on hydrothermal circulation · Physical and chemical reaction processes in hydrothermal circulation systems · Direct observations and measurements of hydrothermal vents from submersibles Scientists and students working in marine geochemistry, marine geology and geophysics, tectonophysics, volcanology, geochemistry and petrology, as well as multidisciplinary scientists with an interest in mid-ocean ridges and hydrothermal systems will find this work an important resource in our evolving view of the

		Earth. *Geophysical Monograph Series, Volume 148, 311 pages, hardbound, 2004, ISBN 0-87590-413-0, AGU Code GM1484130* ***Special Pre-Publication Member Price: $45.50 (through 1 November 2004).*** **AGU Member Price - $ 45.50**

Select a topic to browse:

Geophysical Monograph Series (118 items)

Show (& Search) titles only for selected topic

Show (& Search) all information for selected topic

Search the selected topic for keywords:

The search matches any keyword.
Enclose a book title (or partial title) in quotation marks (e.g., "A Book Title").
Clear the keyword box to view all titles in the selected topic.

Follow this link if your membership status is incorrect.
The prices shown are for **AGU Members**.

Review book selections

Purchase selected books

Continue Reset Form

Bookbag #**05852**