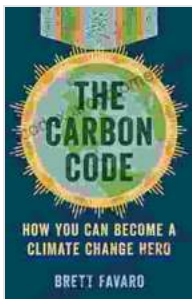


# Fluid Distribution Along the Nankai Trough Megathrust Fault Off the Kii Peninsula: Unraveling the Secrets of Subduction Zones

The Nankai Trough, a tectonic boundary where the Philippine Sea Plate subducts beneath the Eurasian Plate, is a region of great seismic activity. Understanding the fluid distribution along this megathrust fault is crucial for assessing earthquake and tsunami hazards. This comprehensive book delves into the latest research on fluid distribution in this critical subduction zone.

## State-of-the-Art Research

This groundbreaking work brings together the latest findings from leading geoscientists and seismologists. Through a combination of field observations, laboratory experiments, and numerical modeling, they provide a detailed picture of the fluid distribution along the Nankai Trough megathrust fault.



## Fluid Distribution Along the Nankai-Trough Megathrust Fault off the Kii Peninsula: Inferred from Receiver Function Analysis (Springer Theses) by Brett Favaro

★★★★☆ 4 out of 5

Language	: English
File size	: 1843 KB
Text-to-Speech	: Enabled
Screen Reader	: Supported
Enhanced typesetting	: Enabled
Word Wise	: Enabled
Print length	: 277 pages
Lending	: Enabled
Hardcover	: 110 pages

Item Weight : 11.3 ounces  
Dimensions : 6.14 x 0.31 x 9.21 inches



## Key Findings and Implications

- Identification of distinct fluid pathways and their relationship to earthquake triggering mechanisms.
- Insights into the role of fluids in controlling the frictional properties of the fault, influencing earthquake behavior.
- Assessment of the potential for fluid-driven earthquakes and slow slip events along the megathrust fault.

## Significance for Hazard Mitigation

The knowledge gained from this research has significant implications for hazard mitigation in the Nankai Trough region and other subduction zones worldwide. By understanding the fluid distribution and its impact on fault behavior, scientists can better forecast earthquake and tsunami risks and develop effective early warning systems.

## Target Audience

This book is an invaluable resource for:

- Geoscientists studying subduction zones and earthquake physics
- Seismologists involved in seismic hazard assessment
- Hazard mitigation specialists and policymakers

- Graduate students and researchers in earth sciences

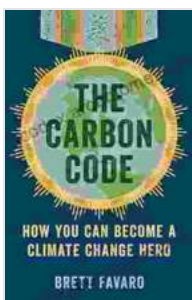
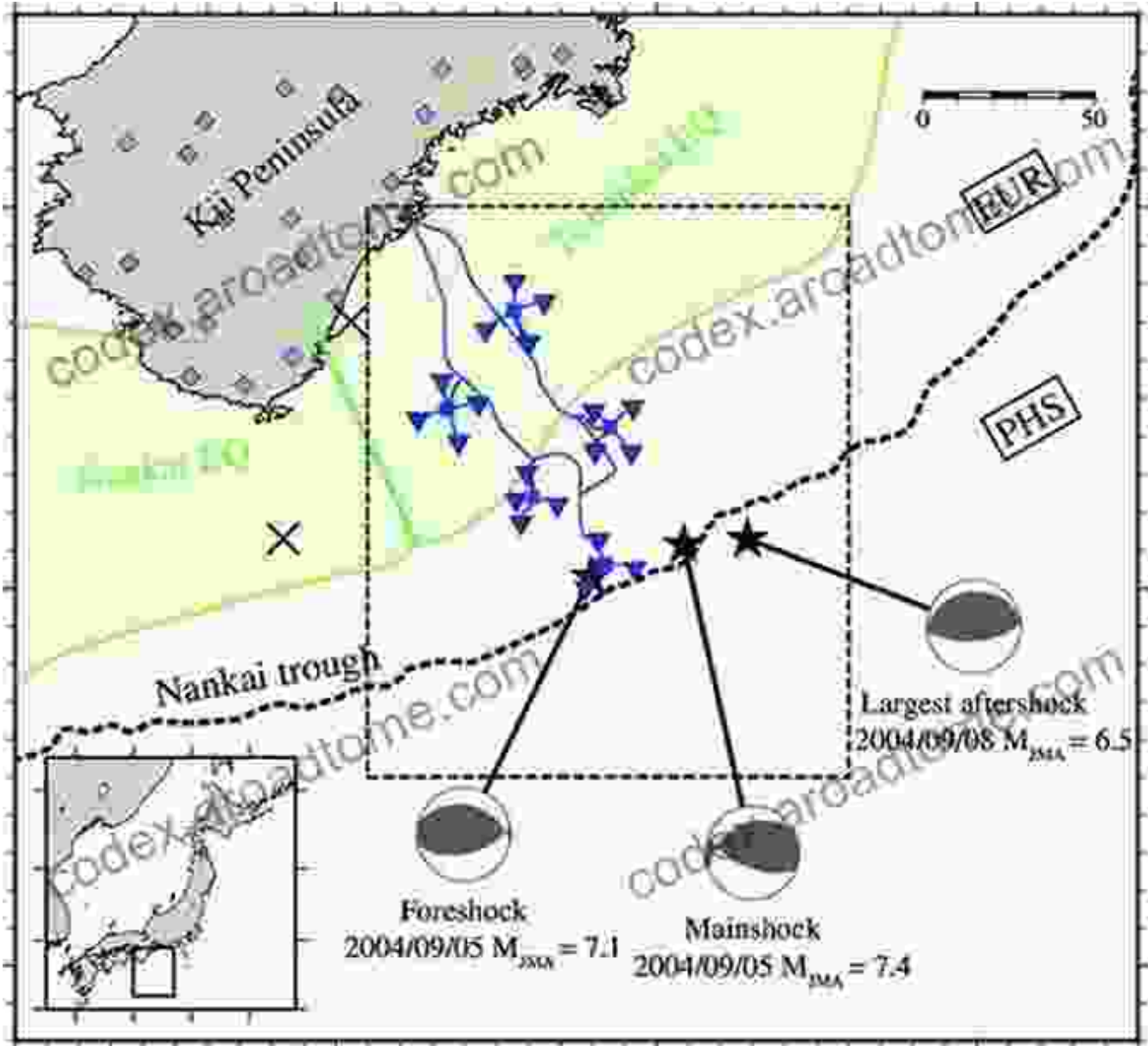
## **Endorsements**

"A groundbreaking work that provides essential insights into the complex interplay between fluids and fault behavior in subduction zones." - Dr. Emily Brodsky, Professor of Geophysics, University of California, Berkeley

"This book is a must-read for anyone interested in understanding earthquake hazards in subduction zones." - Dr. Hiroo Kanamori, Professor Emeritus of Geophysics, California Institute of Technology

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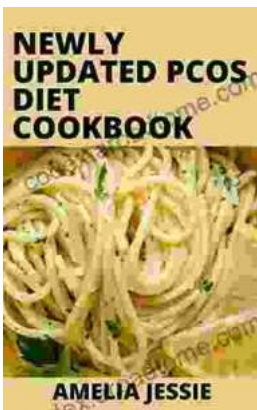
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