

Study on Temporal Variations of S Wave Anisotropy in the Mantle.

メタデータ	言語: jpn 出版者: 公開日: 2021-09-06 キーワード (Ja): キーワード (En): 作成者: Furumoto, Muneyoshi メールアドレス: 所属:
URL	https://doi.org/10.24517/00064059

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1999 Fiscal Year Final Research Report Summary

Study on Temporal Variations of S Wave Anisotropy in the Mantle.

Research Project

Project/Area Number

10640405

Research Category

Grant-in-Aid for Scientific Research (C)

Allocation Type

Single-year Grants

Section

一般

Research Field

固体地球物理学

Research Institution

Kanazawa University

Principal Investigator

FURUMOTO Muneyoshi Kanazawa University, Faculty of Science, Professor, 理学部, 教授 (80109264)

Co-Investigator(Kenkyū-buntansha)

HIRAMATSU Yoshihiro Kanazawa University, Faculty of Science, Research Associate, 理学部, 助手 (80283092)

Project Period (FY)

1998 - 1999

Keywords

S Wave Anisotropy / D" Layer / Core-Mantle-Boundary / Temporal variation

Research Abstract

In order to study the possibility that features of the S wave polarization anisotropy in the D" layer change quickly, we analyze the splitting of ScS waves which are radiated from deep earthquakes around Japan and recorded stations in Japan. The used seismological records are those obtained by Japan Meteorological Agency and several universities. Including results reported previously by us and other researchers, we obtain 35 azimuths of the anisotropic principal axes for the last three decades. The temporal variation of the azimuths shows that the directions of principal axes do not change with time at least in an order of ten years. However, the data suggests that there is a possibility of the temporal variation of the axis direction in a longer period.

