

Strain data obtained in a vault near the Bungo Channel, above an epicenter area of long term slow slip events

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We have observed changes in strain using extensometers in a vault at Sukumo site near the Bungo channel, beneath which long-term Slow Slip Events (SSE) have repeatedly occurred. Earlier reports on strain data claimed that SSE has successfully recorded SSEs beneath the Bungo channel. However, data at Sukumo are highly affected by distortions due to changes in temperature. By referring temperature data obtained near the Sukumo site, secular variations in temperature possibly explain reported anomalies in strain data. This result implies that we cannot interpret recorded anomalies in strain data directly correspond to SSEs.

Keywords: extensometer, vault, slow slip event, Bungo Channel, changes in temperature