

## Crustal reflector beneath Iriomote Island, southwestern Japan

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We carried out natural-earthquake observation and small-span array at northwestern part of Iriomote Island, southwestern part of the Ryukyu islands, Japan, from Oct. 1998 to Mar. 1999. Remarkable later phases are found 17 to 18 s after the S arrivals. The phases are observed at several stations and dominant with horizontal component. Moreover, result of the array analysis suggests that the phases are arrived vertically. We interpret the phases as SxS phase, which is reflected S to S at the lower crust. Depth of the reflector, calculated using SxS arrival time, is 25 to 30 km. This suggests that the reflector lies in the lower crust or upper-most mantle.