

## SS-precursors observed by NECESSArray: Lehman discontinuity beneath the northeastern Pacific ?

## SS-precursors observed by NECESSArray: Lehman discontinuity beneath the northeastern Pacific ?

川勝 均<sup>1\*</sup>, 田中 聡<sup>2</sup>, 大林 政行<sup>2</sup>, 出原 光暉<sup>1</sup>, 入谷 良平<sup>1</sup>, 利根川 貴志<sup>2</sup>, NECESSArray team<sup>1</sup>

KAWAKATSU, Hitoshi<sup>1\*</sup>, TANAKA, Satoru<sup>2</sup>, OBAYASHI, Masayuki<sup>2</sup>, IDEHARA, Koki<sup>1</sup>, IRITANI, Ryohei<sup>1</sup>, TONEGAWA, Takashi<sup>2</sup>, NECESSArray team<sup>1</sup>

<sup>1</sup> 東京大学地震研究所, <sup>2</sup>IFREE, JAMSTEC

<sup>1</sup>Earthquake Research Institute, University of Tokyo, <sup>2</sup>IFREE, JAMSTEC

We analyze SS-precursors from aftershocks of the 2010 Chilean (Mw 8.8) earthquake recorded by NECESSArray. Slant-stacked seismograms of 13 shallow events recorded by ~120 stations of NECESSArray show a strong signal above the 4-sigma noise level about 85 sec before the arrival of the parent SS-phase. This may be originated from the Lehman discontinuity located at a depth of ~200km, but the polarity may be reversed. While signals from 410km- and 660km-discontinuity are well resolved, no signal for the G-discontinuity deeper than 60km is observed. The G-discontinuity (or seismic LAB) beneath the bounce point of the SS-phase (northeastern Pacific) may be shallower than 60km or absent.