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Figure DR1.

The configuration of the subducted oceanic lithosphere at the junction of the Kamchatka and Aleutian subduction zones, and the lateral extent of a slab portal beneath the western Aleutians. Images show color-coded cross-sections through a three-dimensional model of shear wave velocity distribution (Levin et al., 2002).

(A) A horizontal cross-section at a depth of 150 km. (B) A vertical cross-section through the middle of the slab portal (profile A-A' in (A)). (C) A vertical cross-section across the northern edge of the Pacific lithosphere subducting beneath Kamchatka (profile B-B' in (A)). (D) A vertical cross-section of the Pacific lithosphere subducting beneath the Aleutian Islands (profile C-C' in (A)).

