Mass transfer property with subducted oceanic plate and its dewatering flux around plate-subduction zone in the shallow leve

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The calculations of mass circulation in subduction zone, however, did not take into account of mass-transfer properties within subducted oceanic crust, although the dewatering fluid and diffused ions may play an important role on various activities such as seismogeneity, serpentine diapiring and arc volcanism. Accordingly I attent the scientific cruise of the Ocean Drilling Program, Leg 185 (Mariana-Izu margins) in order to measure physical and mass transfer properties of subducted oceanic crust quantitatively and to calculate the dewatering flux and diffused ion mass flux of subducted oceanic crust.

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