

Streak process due to irregular slab topography and the classification of subduction zones

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We demonstrate some physical features of streak (or abrasion) process associated with the surface convex topography of downgoing oceanic slab at subduction zones.

Then, we reconsider more realistic classification model of subduction zones, based on not only the streak process due to the irregular slab topography and/or with the degree of accreting process at the leading edge of the overriding lithosphere, but also the other tectonics parameters such as slab age etc.

Keywords: streak, subduction zone, oceanic slab, convex topography